

Principles & Practices



With Features From





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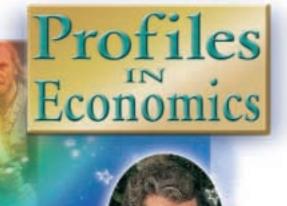


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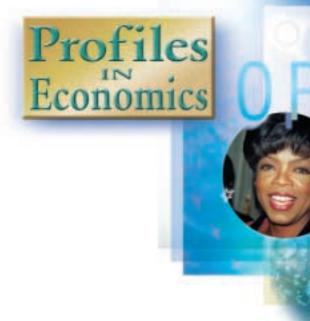
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The cost for a market
basket of staple items varies
widely around the world.
The prices shown are for
capital cities.\$18.79 United States\$28.14 Madrid, Spain\$23.19 London, England
\$27.38 Rome, Italy\$30.10 Paris, France
\$74.23 Tokyo, Japan



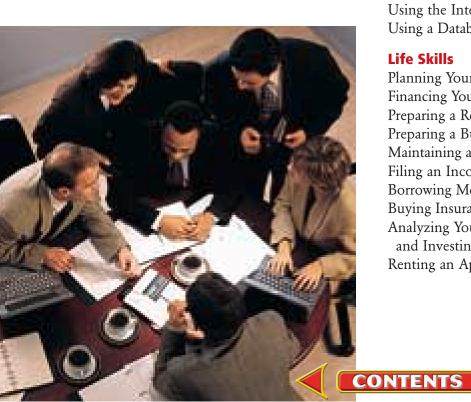


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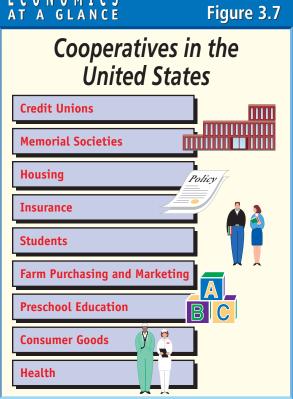
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Using Charts The cooperative is a voluntary association of people formed to carry on some kind of economic activity that will benefit its members. How do the three kinds of cooperatives differ?

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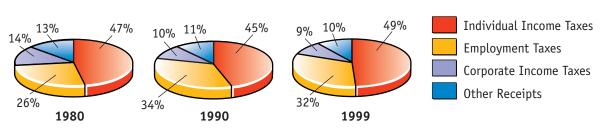
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U.S. Exports and Imports, 1950–2000 A29
Employment and Unemployment,
Selected Economies



Percentage of Total Receipts



Basic Concepts in Economics

Economics: Principles and Practices incorporates the 21 basic concepts established in *A Framework for Teaching Basic Economic Concepts*, published by the National Council on Economic Education.

FUNDAMENTAL ECONOMIC CONCEPTS

- **1. Scarcity and Choice** *Scarcity* is the universal problem that faces all societies because there are not enough resources to produce everything people want. Scarcity requires people to make *choices* about the goods and services they use.
- **2. Opportunity Cost and Trade-Offs** *Opportunity cost* is the foregone benefit of the next best alternative when scarce resources are used for one purpose rather than another. *Trade-offs* involve choosing less of one thing to get more of something else.
- **3. Productivity** *Productivity* is a measure of the amount of output (goods and services) produced per unit of input (productive resources) used.
- **4. Economic Systems** *Economic systems* are the ways in which people organize economic life to deal with the basic economic problem of scarcity.
- **5. Economic Institutions and Incentives** *Economic institutions* include households and families and formal organizations such as corporations, government agencies, banks, labor unions, and cooperatives. *Incentives* are factors that motivate and influence human behavior.
- 6. Exchange, Money, and Interdependence *Exchange* is a voluntary transaction between buyers and sellers. It is the trading of a good or service for another good or service, or for money. *Money* is anything that is generally accepted as final payment for goods and services, and thus serves as a medium of exchange. *Interdependence* means that decisions or events in one part of the world or in one sector of the economy affect decisions and events in other parts of the world or sectors of the economy.

MICROECONOMIC CONCEPTS

- 7. Markets and Prices *Markets* are arrangements that enable buyers and sellers to exchange goods and services. *Prices* are the amounts of money that people pay for a unit of a particular good or service.
- 8. Supply and Demand Supply is defined as the different quantities of a resource, good, or service that will be offered for sale at various possible prices during a specific time period. Demand is defined as the different quantities of a resource, good, or service that will be purchased at various possible prices during a specific time period.
- **9. Competition and Market Structure** *Competition* is the struggle between businesses that strive for the same customer or market. Competition depends on *market structure*—the number of buyers and sellers, the extent to which firms can control price, the nature of the product, the accuracy and timeliness of information, and the ease with which firms can enter and exit the market.
- **10. Income Distribution** *Income distribution* refers to the way the nation's income is distributed by function-to those who provide productive resources-and by recipient, primarily individuals and families.

xxviii BASIC CONCEPTS IN ECONOMICS



- **11. Market Failures** *Market failures* occur when there is inadequate competition, lack of access to reliable information, resource immobility, externalities, and the need for public goods.
- **12. The Role of Government** *The role of government* includes establishing a framework of law and order in which a market economy functions. The government plays a direct and an indirect role in the economy as both a producer and a consumer of goods and services.

MACROECONOMIC CONCEPTS

- **13.** Gross Domestic Product Gross Domestic Product (GDP) is defined as the market value of the total output of all final goods and services produced within a country's boundaries during one year.
- 14. Aggregate Supply and Aggregate Demand Aggregate supply is the total amount of goods and services produced by the economy during a period of time. Aggregate demand is the total amount of spending on goods and services in the economy during a period of time.
- **15. Unemployment** *Unemployment* is defined as the number of people without jobs who are actively seeking work. This is also expressed as a rate when the number of unemployed is divided by the number of people in the labor force.
- **16.** Inflation and Deflation *Inflation* is a sustained increase in the average price level of the entire economy. *Deflation* is a sustained decrease in the average price level of an entire economy.
- **17. Monetary Policy** *Monetary policy* consists of actions initiated by a nation's central bank that affect the amount of money available in the economy and its cost (interest rates).
- **18.** Fiscal Policy *Fiscal policy* consists of changes in taxes, in government expenditures on goods and services, and in transfer payments that are designed to affect the level of aggregate demand in the economy.

INTERNATIONAL ECONOMIC CONCEPTS

- **19.** Absolute and Comparative Advantage and Barriers to Trade *Absolute advantage* and *comparative advantage* are concepts that are used to explain why trade takes place. *Barriers to trade* include tariffs, quotas, import licenses, and cartels.
- **20. Exchange Rates and the Balance of Payments** An *exchange rate* is the price of one nation's currency in terms of another nation's currency. The *balance of payments* of a country is a statistical accounting that records, for a given period, all payments that the residents, businesses, and governments of one country make to the rest of the world as well as the receipts that they receive from the rest of the world.
- **21. International Aspects of Growth and Stability** *International aspects of growth and stability* are more important today than in the past because all nations are much more interdependent.



BASIC CONCEPTS IN ECONOMICS 1

UNIT

Fundamental Economic Concepts

CONTENTS

CHAPTER 1 What Is Economics?

CHAPTER 2 Economic Systems and Decision Making

CHAPTER 3 Business Organizations

Why It's Important

As you read this unit, learn how the study of economics helps answer the following questions:

- How do you make the decision between buying gas for your car or taking your friend out for pizza?
- Why is your friend from Russia stunned by all the shoes available at your local shoe store?
- Why is an item at a department store less expensive than that same item at a specialty shop?

The factors of production—land, labor, capital, and entrepreneurship—make production possible.

PIONEER

PIONE

2 UNIT 1 FUNDAMENTAL ECONOMIC CONCEPTS



CLICK HERE

CONTENTS

POOL

RICHARDSON

POOL

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To learn more about basic economic concepts through information, activities, and links to other sites, visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u>

CHAPTER

Vhat Is Economic

Economics & You

The study of economics will help you become a better decision maker—it helps you develop a way of thinking about how to make the best choices for you. To learn more about the scope of economics, view the Chapter 2 video lesson:

What Is Economics?

We RUSSER



Chapter Overview Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 1—Chapter Overviews* to preview chapter information. Consumers must make choices from many alternatives.

WORKMASTER

WAY

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SCAN

10

Scarcity and the Science of Economics

SECTION 1

Study Guide

Main Idea

Scarcity forces us to make choices. We can't have everything we want, so we are forced to choose what we want most.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below by listing and describing the three economic choices every society must make.



Key Terms

scarcity, economics, need, want, factors of production, land, capital, financial capital, labor, entrepreneur, production, Gross Domestic Product (GDP)

Objectives

After studying this section, you will be able to:

- 1. Explain the fundamental economic problem.
- Examine the three basic economic questions every society must decide.

Applying Economic Concepts

Scarcity Read to find out why scarcity is the basic economic problem that faces everyone.

Cover Story

Harris Poll Shows High Interest in Economics

American adults have an exceptionally keen interest in economics. More than seven in ten say they share the same high level of interest in economics as they do politics, business and finance. A full 96% believe basic economics should be taught in high school. Yet, half



The focus on economics education is growing.

high school. Tet, han of these same adults and two out of three high school students flunked an elementary quiz on basic economic concepts. Clearly the time has come [to] place economic literacy higher on the national education agenda.

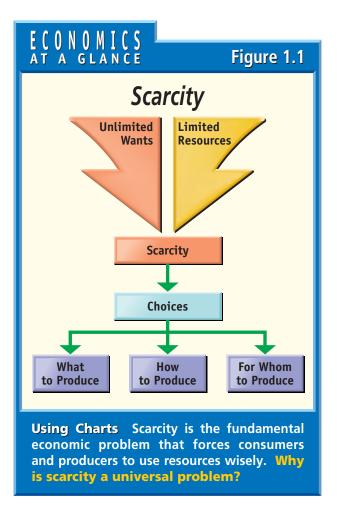
—April 27, 1999 press release, The National Council on Economic Education o you think the study of economics is worth your time and effort? According to the Harris poll in the cover story, a huge percentage of Americans think it is. They must know what economists know-that a basic understanding of economics can help make sense of the world around us.

The Fundamental Economic Problem

Have you ever noticed that very few people are satisfied with the things they have? Someone without a home may want a small one; someone else with a small home may want a larger one; someone with a large home may want a mansion. Others want things like expensive sports cars, lavish jewelry, and exotic trips. Whether they are rich or poor, most people seem to want more than they already have. In fact, if each of us were to make a list of all the things we want, it would include more things than we could ever hope to obtain.

The fundamental economic problem facing all societies is that of scarcity. **Scarcity** is the condition that results from society not having enough resources to produce all the things people would like to have.

CONTENTS



As shown in **Figure 1.1**, scarcity affects almost every decision we make. This is where the study of economics comes in. **Economics** is the study of how people try to satisfy what appears to be seemingly unlimited and competing wants through the careful use of relatively scarce resources.

Needs and Wants

Economists often talk about people's needs and wants. A **need** is a basic requirement for survival and includes food, clothing, and shelter. A **want** is a way of expressing a need. Food, for example, is a basic need related to survival. To satisfy the need for food, a person may "want" a pizza or other favorite meal. Because any number of foods will satisfy the need for nourishment, the range of things represented by the term *want* is much broader than that represented by the term *need*.

"There Is No Such Thing as a Free Lunch"

Because resources are limited, virtually everything we do has a cost-even when it seems as if we are getting something "for free."

For example, you may think you are getting a free lunch when you use a "buy one, get one free" coupon. However, while you may not pay for the extra lunch then and there, someone had to pay the farmer for raising the food, the truck driver for delivering the food, the chef for preparing the food, and the server for serving the food.

How does business recover these costs? Chances are that the price of the giveaway is usually hidden somewhere in the prices the firm charges for its products. As a result, the more a business gives away "free," the more it has to raise the prices for the items it sells. In the end, someone always pays for the supposedly "free" lunch—and that someone may be you!

Unfortunately, most things in life are not free because someone has to pay for the production in the first place. Economic educators use the term *TINSTAAFL* to describe this concept. In short, this term means that *There Is No Such Thing As A Free Lunch*.

Three Basic Questions

Because we live in a world of relatively scarce resources, we have to make wise economic choices. Figure 1.1 presents three of the basic questions we have to answer. In so doing, we make decisions about the ways our limited resources will be used.

WHAT to Produce

The first question is that of WHAT to produce. Should a society direct most of its resources to the production of military equipment or to other items such as food, clothing, or housing? Suppose the decision is to produce housing. Should its limited resources be used for low-income, middleincome, or upper-income housing? How many of each will be needed? A society cannot have everything its people want, so it must decide WHAT to produce.



HOW to Produce

A second question is that of HOW to produce. Should factory owners use mass production methods that require a lot of equipment and few workers, or should they use less equipment and more workers? If an area has many unemployed people, the second method might be better. On the other hand, mass production methods in countries where machinery and equipment is widely available can often lower production costs. Lower costs make manufactured items less expensive and, therefore, available to more people.

FOR WHOM to Produce

The third question deals with FOR WHOM to produce. After a society decides WHAT and HOW to produce, the things produced must be allocated to someone. If the society decides to produce housing, should it be distributed to workers, professional people, or government employees? If there are not enough houses for everyone, a choice must be made as to who will receive the existing supply.

These questions concerning WHAT, HOW, and FOR WHOM to produce are not easy for any society to answer. Nevertheless, they must be answered as long as there are not enough resources to satisfy people's seemingly unlimited wants.

The Factors of Production

The reason people cannot satisfy all their wants and needs is the scarcity of productive resources. The **factors of production**, or resources required to produce the things we would like to have, are land, capital, labor, and entrepreneurs. As shown in **Figure 1.2**, all four are required if goods and services are to be produced.

Land

In economics, **land** refers to the "gifts of nature," or natural resources

not created by humans. "Land" includes deserts, fertile fields, forests, mineral deposits, livestock, sunshine, and the climate necessary to grow crops. Because only so many natural resources are available at any given time, economists tend to think of land as being fixed, or in limited supply.

For example, there is not enough good farmland to adequately feed all of the earth's population, nor enough sandy beaches for everyone to enjoy, nor enough oil and minerals to meet our expanding energy needs indefinitely. Because the supply of a productive factor like land is relatively fixed, the problem of scarcity is likely to become worse as population grows in the future.

Capital

Another factor of production is **capital**—the tools, equipment, machinery, and factories used in the production of goods and services. Such items also are called capital goods to distinguish them from **financial capital**, the money used to buy the tools and equipment used in production.

Economic Choices



Making Decisions If we cannot have everything we want, then we have to choose what we want the most. Why must a society face the choices about what, how, and for whom to produce?



ECONOMICS At a glance

Figure 1.2

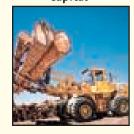
The Factors of Production

Land



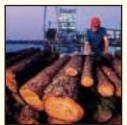
Land includes the "gifts of nature," or natural resources not created by human effort.

Capital



Capital includes the tools, equipment, and factories used in production.

Labor



Labor includes people with all their efforts and abilities.

Entrepreneurs



Entrepreneurs are individuals who start a new business or bring a product to market.

Synthesizing Information The four factors of production are necessary for production to take place. What four factors of production are necessary to bring jewelry to consumers?

Capital is unique in that it is the result of production. A bulldozer, for example, is a capital good used in construction. It also was built in a factory, which makes it the result of earlier production. Like the bulldozer, the cash register in a neighborhood store is a capital good, as are the computers in your school that are used to produce the service of education.

Labor

A third factor of production is **labor**-people with all their efforts, abilities, and skills. This category includes all people except for a unique group of individuals called entrepreneurs, which we single out because of their special role in the economy.

Unlike land, labor is a resource that may vary in size over time. Historically, factors such as population growth, immigration, famine, war, and disease have had a dramatic impact on both the quantity and quality of labor.

Entrepreneurs

Some people are special because they are the innovators responsible for much of the change in our economy. Such an individual is an **entrepreneur**, a risk-taker in search of profits who does something new with existing resources. Entrepreneurs often are thought of as being the driving force in an economy because they exhibit the ability to start new businesses or bring new products to market. They provide the initiative that combines the resources of land, labor, and capital into new products.

Production

When all factors of production-land, capital, labor, and entrepreneurs-are present, **production**, or the process of creating goods and services, can take place. In fact, everything we produce requires these factors. For example, the chalkboards, desks, and audiovisual equipment used in schools are capital goods. The labor is in the form of services supplied



by teachers, administrators, and other employees. Land, such as the iron ore, granite, and timber used to make the building and desks, as well as the land where the school is located, is also needed. Finally, entrepreneurs are needed to organize the other three factors and make sure that everything gets done.

The Scope of Economics

Economics is the study of human efforts to satisfy what appear to be unlimited and competing wants through the careful use of relatively scarce resources. As such, it is a *social science* because it deals with the behavior of people as they deal with this basic issue. There are four key elements to this study: description, analysis, explanation, and prediction.

Description

Economics deals with the description of economic activity. For example, you will often hear about the **Gross Domestic Product (GDP)**-the dollar value of all final goods and services, and structures produced within a country's borders in a 12-month period. GDP is the most comprehensive measure of a country's total output and is a key measure of the nation's economic health. Economics is also concerned with what is produced and who gets how much, as well as with topics such as unemployment, inflation, international trade, the interaction of business and labor, and the effects of government spending and taxes.

Description is important because we need to know what the world around us looks like. However, description is only part of the picture because it leaves many important "why" and "how" questions unanswered.

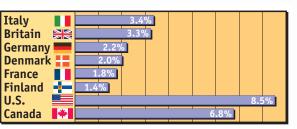
Analysis

In order to answer such questions, economics must focus on the analysis of economic activity as well. Why, for example, are prices of some items high while others are low? Why do some people earn higher incomes than others? How do taxes affect people's desire to work and save?

UNITED STATES LEADS IN ENTREPRENEURS

A vast majority of the owners of the nearly 20 million businesses in the United States are entrepreneurs. Most either work for themselves or have a few employees.

A 10-nation study found that the United States leads when it comes to entrepreneurs. According to the survey, nearly 1 in 12 Americans is trying to start a new business. In second place is Canada. The study also shows a strong link between business start-up rates and overall economic growth. The graph shows the percentage of the adult population starting new businesses.



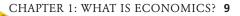
Source: 1999 Global Entrepreneurship Monitor

Critical Thinking

CONTENTS

THE GLOBAL ECONOMY

- 1. Analyzing Information In which nation is entrepreneurial activity strongest? Weakest?
- 2. Making Comparisons How does the level of North America's entrepreneurial activity compare with Europe's?
- 3. Drawing Conclusions Do you think there is a link between business start-up rates and overall economic growth? Why or why not?



CYBERNOMICS SPOTLIGHT

Capital

"Capital" comprises the tools, equipment, and factories used to produce goods and services. As the economy changes, some economists are adjusting the definition to include "tools" such as knowledge and intellectual property. An example of such knowledge and intellectual property are databases and software.

The importance of analysis is that it helps us to discover why things work and how things happen. This, in turn, will help us deal with problems that we would like to solve.

Explanation

Economics is also concerned with the explanation of economic activity. After economists understand why and how things work, it is useful and even necessary to communicate this knowledge to others. If we all have a common understanding of the way our economy works, some economic problems will be much easier to address or even fix in

the future. When it comes to the GDP, you will soon discover that economists spend much of their time explaining why the measure is, or is not, performing in the manner expected.

Prediction

Finally, economics is concerned with prediction. For example, we may want to know if people's incomes are going to rise or fall in the future, affecting their spending habits in the marketplace. Or, perhaps a community trying to choose between higher taxes on homeowners or higher taxes on businesses needs to know the consequences of each alternative before it makes its choice.

The study of economics can help to make the best decision in both situations. Because economics deals with the study of what is, or what tends to be, it can help predict what may happen in the future, as well as the likely consequences of different courses of action.

Finally, it is also important to realize that the actual decisions about the economic choices to be made are the responsibility of all citizens in a free and democratic society. Therefore, the study of economics helps all of us to become more informed citizens and better decision makers.



Checking for Understanding Applying Economic Concepts 7. Scarcity How does scarcity affect your life? **1. Main Idea** Using your notes from the graphic Provide several examples of items you had to organizer activity on page 5, explain why a society must face the choices about WHAT, do without because of limited resources. HOW, and FOR WHOM to produce. Explain how you adjusted to this situation. For example, were you able to substitute 2. Key Terms Define scarcity, economics, need, other items for those you could not have? want, factors of production, land, capital, financial capital, labor, entrepreneur, produc-Critical Thinking tion, Gross Domestic Product (GDP) 3. Describe the fundamental economic problem. 8. Synthesizing Information Give an example of a supposedly "free" item that you see 4. List the three basic economic questions every every day. Explain why the item is not really society must answer. free by stating who or what actually pays 5. Describe the factors of production. for it. 6. List the four key elements of economics. **Practice** and **assess** key social studies skills with the Glencoe Skillbuilder Interactive Workbook. Level 2. **10** UNIT 1 FUNDAMENTAL ECONOMIC CONCEPTS

CONTENTS

BusinessWeek

Alexis de Tocqueville, a French traveler, wrote about his travels in the United States during the 1830s. His book, Democracy in America, a two-volume study of the American people and their institutions, is still relevant today.

The Role of the **Entrepreneur**

What astonishes me in the United States is not so much the marvelous grandeur of such undertakings as the innumerable multitude of small ones.

-Alexis de Tocqueville, 1835

What [de Tocqueville noticed nearly 160 years ago]-before the advent of Apple Computer, Genentech, Microsoft, or Nucor-is just as true today. The only difference is that the spirit of enterprise is more than ever a global phenomenon with few bounds.

From the row of kiosks selling goods on nearly every block in Moscow to the cramped factories in Taiwan, Russian *biznez-men* and Chinese *chang-shang* are reshaping their nations' economies in

much the same way as those ingenious old Yankees created the basis for America's business cultures just after independence was won.

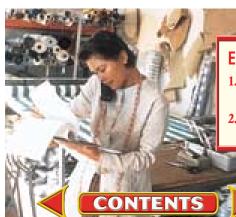
Any [de Tocqueville of modern times] would notice something else about this global shift:

-Newsclip

Changes in the rules of the business game are putting a premium on the entrepreneurial qualities of [the smaller] companies. Today's successful enterprises are nimble, innovative, close to the customer, and quick to the market. They're not bureaucratic, centrally controlled institutions that are slow to change. It adds us to a new management catechism with many of the hallmarks of small business. . .

Sure, some industries, such as auto making and petrochemicals, still require size and scale. But the swift pace of technological change and the fragmentation of markets are eroding the traditional economies of scale. Indeed, some management thinkers now speak of the "diseconomies of scale," the unresponsiveness, sluggishness, and high costs that come with bureaucracy. While the behemoths try to adjust to new competitive realities, younger and smaller companies have emerged as the agents of change in economies around the world. . . .

> -Reprinted from *Small Business Trends and Entrepreneurship*, by the editors of *Business Week*, copyright © 1995 by The McGraw-Hill Companies, Inc.



Examining the Newsclip

- Summarizing Information What are the entrepreneurial qualities of small companies?
- 2. Finding the Main Idea What does the writer mean by "diseconomies of scale"?

Basic Economic Concepts

SECTION 2

Study Guide

Main Idea

An economic product is a good or service that is useful, relatively scarce, and exchangeable.

Reading Strategy

Graphic Organizer As you read the section, describe three different transactions that could take place in the factor market. Use a web like the one below to help you organize your answer.



Key Terms

economic product, good, consumer good, capital good, service, value, paradox of value, utility, wealth, market, factor market, product market, economic growth, productivity, division of labor, specialization, human capital, economic interdependence

Objectives

After studying this section, you will be able to:

- 1. **Explain** the relationship among scarcity, value, utility, and wealth.
- 2. Understand the circular flow of economic activity.

Applying Economic Concepts

Specialization Read to discover how specialization increases production.

Cover Story

On Specialization

To take an example, \ldots One man draws out the wire, another straightens it, a third cuts it, a fourth

points it, a fifth grinds it at the top for receiving the head; to make the head requires two or three distinct operations; to put it on, is a peculiar business, to whiten the pins is another; it is even a trade by itself to put them into the paper; and [the making of] a pin is, in this manner, divided into about eighteen distinct operations.



—Adam Smith, The Wealth of Nations, 1776 Conomics, like any other social science, has its own vocabulary. To understand economics, a review of some key terms is necessary. Fortunately, most economic terms are widely used, and many will already be familiar to you.

Goods, Services, and Consumers

Economics is concerned with **economic products**—goods and services that are useful, relatively scarce, and transferable to others. Economic products are scarce in an economic sense. That is, one cannot get enough to satisfy individual wants and needs. Because of these characteristics, economic products command a price.

Goods

CONTENTS

The first type of economic product is a **good**an item that is economically useful or satisfies an economic want, such as a book, car, or compact disc player. A **consumer good** is intended for final use by individuals. When manufactured goods are used to produce other goods and services, they are called **capital goods**. An example

Adam Smith

of a capital good would be a robot welder in a factory, an oven in a bakery, or a computer in a high school.

Any good that lasts three years or more when used on a regular basis is called a durable good. Durable goods include both capital goods, such as robot welders, and consumer goods such as automobiles. A nondurable good is an item that lasts for less than three years when used on a regular basis. Examples of nondurable goods include food, writing paper, and most clothing items.

Services

The other type of economic product is a **service**, or work that is performed for someone. Services include haircuts, home repairs, and forms of entertainment such as concerts. They also include the work that doctors, lawyers, and teachers perform. The difference between a good and a service is that a service is intangible, or something that cannot be touched.

Consumers

The consumer is a person who uses goods and services to satisfy wants and needs. As consumers, people indulge in consumption, the process of using up goods and services in order to satisfy wants and needs.

Value, Utility, and Wealth

In economics, **value** refers to a worth that can be expressed in dollars and cents. Why, however, does something have value, and why are some things worth more than others? To answer these questions, it helps to review an early problem faced by economists.

Paradox of Value

At first, early economists were puzzled by a contradiction between necessities and value called the **paradox of value**. The paradox of value is the situation where some necessities, such as water, have little monetary value, whereas some non-necessities, such as diamonds, have a much higher value. Economists knew that scarcity is required for value. For example, water was so plentiful in many areas that it had little or no value. On the other hand, diamonds were so scarce that they had great value. The problem was that scarcity by itself is not enough to create value.

Utility

CONTENTS

It turned out that for something to have value, it must also have **utility**, or the capacity to be useful and provide satisfaction. Utility is not something that is fixed or measurable, like weight or height. Instead, the utility of a good or service may vary from one person to the next. One person may get a great deal of satisfaction from a home computer; another may get very little. One person may enjoy a rock concert; another may not. A good or service does not have to have utility for everyone, only utility for some.

For something to have value, economists decided, it must be scarce *and* have utility. This is the solution to the paradox of value. Diamonds are scarce and have utility—and therefore they possess a value that can be stated in monetary terms. Water has utility, but is not scarce enough in most places to give it much value. Therefore, water is less expensive, or has less value, than diamonds.

STANDARD&POOR'SINFOBYTE

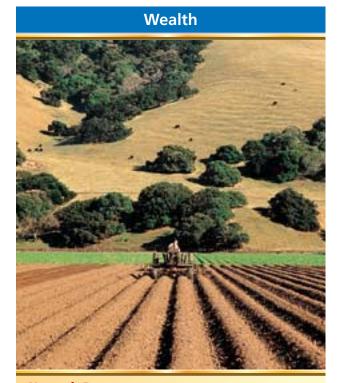
Durable Goods Orders The Department of Commerce's report on durable goods orders highlights the number of new orders placed with domestic manufacturers for goods intended to last over three years. The report is divided into broad categories; these include defense, nondefense, and capital and noncapital goods. Noncapital goods are generally of the consumer spending variety and include automobiles and large appliances. Capital goods tend to be of the investment spending nature, while defense goods indicate government spending.

CHAPTER 1: WHAT IS ECONOMICS? 13

Wealth

Another concept is **wealth.** Wealth, in an economic sense, is the accumulation of those products that are tangible, scarce, useful, and transferable from one person to another. Consequently, a nation's wealth is comprised of all items, including natural resources, factories, stores, houses, motels, theaters, furniture, clothing, books, highways, video games, and even footballs.

While goods are counted as wealth, services are not because they are intangible. However, this does not mean that services are not useful. Indeed, when Adam Smith wrote *The Wealth of Nations* in 1776, he was referring specifically to the ability and skills of a nation's people as the source of its wealth. To illustrate, if a country's material possessions were taken away, its people, through their skilled efforts, could restore these possessions. On the other hand, if a country's people were taken away, its wealth would deteriorate.



Natural Resources Fertile land is a natural resource and an item of wealth. *Why are natural resources considered part of the nation's wealth?*

The Circular Flow of Economic Activity

The wealth that an economy generates is made possible by the circular flow of economic activity. The key feature of this circular flow is the **market**, a location or other mechanism that allows buyers and sellers to exchange a certain economic product. Markets may be local, regional, national, or global. More recently, markets have evolved in cyberspace, with buyers and sellers interacting through computer networks without leaving the comfort of their homes.

Factor Markets

How does this circular flow operate? As shown in **Figure 1.3**, individuals earn their incomes in **factor markets**, the markets where productive resources are bought and sold. This is where entrepreneurs hire labor for wages and salaries, acquire land in return for rent, and borrow money for interest. The concept of a factor market is a simplified version of the real world, of course, but it is nevertheless realistic. To illustrate, you participate in the factor market whenever you go to work and sell your labor to an employer.

Product Markets

CONTENTS

After individuals receive their income from the resources they sell, they spend it in **product markets**, markets where producers sell their goods and services to consumers. Thus, the money that individuals receive from businesses in the factor markets returns to businesses in the product markets. Businesses then use this money to produce more goods and services—and the cycle, through economic activity, repeats itself.

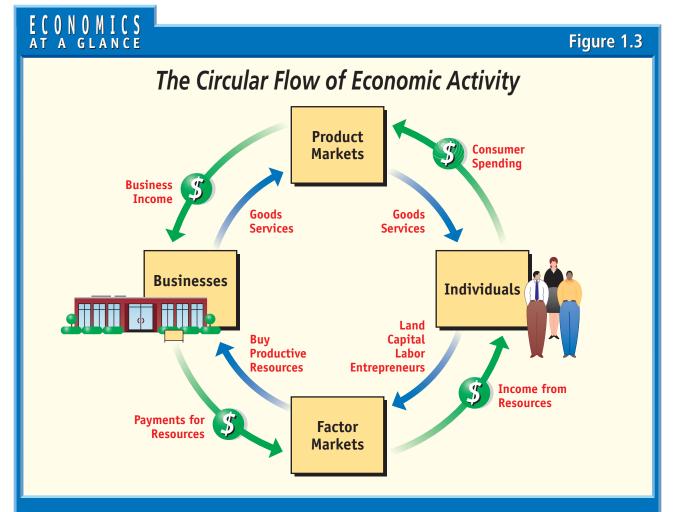
As you can see from **Figure 1.3**, markets serve as the main links between individuals and businesses. Note that money circulates on the outside, illustrating payments for goods, services, and the factors of production. The actual factors of production, and the products made with these productive inputs, flow in the opposite direction on the inside.

Productivity and Economic Growth

Economic growth occurs when a nation's total output of goods and services increases over time. This means that the circular flow in **Figure 1.3** becomes larger, with more factors of production, goods, and services flowing in one direction, and more payments flowing in the opposite direction. A number of factors are responsible for economic growth, but productivity is the most important.

Productivity

Everyone benefits when scarce resources are used efficiently. This is described by the term **productivity**, which is a measure of the amount of output produced by a given amount of inputs in a specific period of time. Productivity goes up whenever more output can be produced with the same amount of inputs in the same amount of time. For example, if a company produced 500 units of a product in one period, and if it produced 510 in



Using Charts The circular flow diagram shows the high degree of economic interdependence in our economy. In the diagram, the factors of production and the products made from them flow in one direction. The payments for the factors, which consumers spend on goods and services, flow in the opposite direction. As a consumer, what role do you play in the circular flow of economic activity?



the next period with the same number inputs, than productivity went up.

Productivity is often discussed in terms of labor, but it applies to all factors of production. For this reason, business owners try to buy the most efficient capital goods, and farmers try to use the most fertile land for their crops.

Division of Labor and Specialization

Division of labor and specialization can improve productivity. **Division of labor** takes place when work is arranged so that individual workers do fewer tasks than before. In most cases, a worker who performs a few tasks many times every day is likely to become more proficient than a worker who performs hundreds of different tasks in the same period.

ECONOMICS AT A GLANCE

Figure 1.4

Effect of Education on Income

Education	Average Males	Income For Females
Less Than 9th Grade	\$22,746	\$14,957
9th to 12th Grade (no diploma)	\$27,638	\$18,594
High School Graduate & Equivalency	\$32,611	\$22,656
Some College, no degree	\$39,367	\$26,562
Associate Degree	\$40,465	\$29,776
Bachelor's Degree	\$55,832	\$37,319
Master's Degree	\$71,225	\$46,072
Professional Degree	\$120,052	\$74,077
Doctorate Degree	\$93,106	\$60,468

Source: U.S. Department of Commerce, Bureau of the Census, 1999

Using Tables Education is one way to invest in human capital. How does this type of investment pay off for both employers and their employees?



Visit <u>epp.glencoe.com</u> and click on *Textbook Updates—Chapter 1* for an update of the data.

CONTENTS

CLICK HERE

Specialization takes place when factors of production perform tasks that they can do relatively more efficiently than others. Note that specialization is not limited to a single factor of production such as labor. For example, complex industrial robots are often built to perform just one or two simple assembly line tasks. In regional specialization, different regions of the country often specialize in the things they can produce best—as when Idaho specializes in potatoes, Iowa in corn, and Texas in oil, cotton, and cattle.

One of the best examples of the advantages offered by the division of labor and specialization is Henry Ford's introduction of the assembly line into automobile manufacturing. This process cut the time necessary to assemble a car from a day and a half to just over 90 minutes. It also cut the price of a new car

by more than 50 percent. The result was improvement in productivity.

Another example of the changes that can result from specialized tools can be seen in American agriculture. In 1910 it took more than 13 million farmers to feed the U.S. population, at that time about 90 million. Today, 2 million farmers can feed a population that is more than two and a half times as large as it was in 1910.

Investing in Human Capital

One of the main contributions to productivity comes from investments in **human capital**, the sum of the skills, abilities, health, and motivation of people. Government can invest in human capital by helping to provide education and health care. Businesses can invest in training and other programs that improve the skill and motivation of its workers. Individuals can invest in their own education by completing high school, going to technical school, or going to college.

Figure 1.4 shows that investments in education can have substantial payoffs. According to the data in the table, high school graduates have substantially higher incomes than nongraduates, and college graduates make even more than high school graduates. Educational investments require that we make a sacrifice today so we can have a better life in the future—and few investments generate higher returns.

Investing in the Future

Businesses, government, and other organizations face many of the same choices that individuals do. Investments in human capital and physical capital can eventually increase production and promote economic growth. Faster economic growth, in turn, increases the amount of goods and services available to us.

Economic Interdependence

The American economy has a remarkable degree of **economic interdependence.** This means that we rely on others, and others rely on us, to provide the goods and services that we consume.

Events in one part of the country or the world often have a dramatic impact elsewhere. To illustrate, a labor dispute between several hundred professional basketball players and a handful of owners can affect

Did you know?

First and Biggest The world's first programmable computer, the Electronic Numerical Integrator and Computer (ENIAC), was developed in 1946. Standing 10 feet tall and stretching 150 feet wide, ENIAC could perform up to 5,000 operations per second. Personal computers today easily outperform ENIAC.

the lives of tens of thousands of people who park cars, sell tickets, serve food at the games, and sell NBA apparel and memorabilia all across the country. Or, bad weather in countries where sugar cane is grown can affect sugar prices in the United States, which in turn can affect the price of snack foods and the demand for sugar substitutes elsewhere.

This does not mean that economic interdependence is necessarily bad. The gain in productivity and income as a result of increased specialization almost always offsets the costs associated with the loss in self-sufficiency. However, we need to understand how all the parts fit together, which is one reason why we study economics.

Section 2 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Using your notes from the graphic organizer activity on page 12, explain the different transactions that take place in the product market.
- 2. Key Terms Define economic product, good, consumer good, capital good, service, value, paradox of value, utility, wealth, market, factor market, product market, economic growth, productivity, division of labor, specialization, human capital, economic interdependence.
- 3. Discuss the relationship among scarcity, value, utility, and wealth.
- 4. Describe the circular flow of economic activity.
- **5. Explain** why productivity is important to economic growth.

Applying Economic Concepts

6. Specialization Provide at least three examples each of specialized workers and capital that are used in your school to provide the service of education. Would productivity go up or down if these specialized capital goods and workers were not available to your school? Explain why or why not.

Critical Thinking

- 7. Making Comparisons What is the difference between a durable good and a nondurable good?
- **8. Drawing Conclusions** In what way do businesses and households both supply and demand in the circular flow model?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Profiles Economics

The Father of Modern Economics: Adam Smith (1723-1790)

Take a look at a Scottish penny and you'll be surprised by what you see. The person pictured was not a political or military figure, but an economist: Adam Smith. It is a fitting tribute to a man who contributed so much to economics.

HIS LIFE

Smith was born in Kirkcaldy, Scotland. After graduating from Glasgow University, he traveled to England and enrolled at Oxford University. Six years later, Smith returned to Scotland to lecture at Edinburgh University and at his alma mater, where he was immensely popular with his students. Smith became a tutor to a young duke, and traveled throughout Europe.

HIS IDEAS

Smith met and exchanged ideas with French writer Voltaire, Benjamin Franklin, and the French economist Quesnay. His travels helped him formulate the ideas put forth in *The Wealth of Nations* (1776). In *The Wealth of Nations*, Smith observed that labor becomes more

INVISIBLE HAND

productive as each worker becomes more skilled at a single job. He said that new machinery and the division of labor and specialization would lead to an increase in production and greater "wealth of nations." Smith also put forth what was then a radical new idea: that the wealth of a nation should be defined as the sum of its labor-produced goods, not by who owned those goods.

Smith's most influential contribution, however, concerned competition in the marketplace. Every individual, Smith wrote, "intends only his own gain, and he is in this ... led by an invisible hand. ... By pursuing his own interest he frequently promotes that of the society. ..." Smith argued that a free market isn't chaotic, but that competition acts as an "invisible hand" that guides resources to their most productive uses. A truly free,

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competitive market—operating with a minimum of government intervention—would bring about the greatest good for society as a whole.

-FAIRE

The English aristocracy ridiculed The Wealth of Nations. Business people, however, were delighted to have a moral justification for their growing wealth and power. Soon, Smith's doctrine of laissez-faire (French, "let it be"), meaning minimal government intervention in economic affairs, became the economic watchword in Europe, and is today the economic watchword of much of the world.

Examining the Profile

- **1. Summarizing Ideas** Summarize Smith's contribution to economic thought.
- Synthesizing Information Explain how Smith's ideas are evident in the workings of the American economy.

Economic Choices and Decision Making

SECTION 3

Study Guide

Main Idea

Trade-offs are present whenever choices are made.

Reading Strategy

Graphic Organizer As you read this section, complete a graphic organizer similar to the one below by explaining what you need to know to become a good decision maker.



Key Terms

trade-off, opportunity cost, production possibilities frontier, cost-benefit analysis, free enterprise economy, standard of living

Objectives

After studying this section, you will be able to:

- 1. Analyze trade-offs and opportunity costs.
- 2. Explain decision-making strategies.

Applying Economic Concepts

Opportunity Costs Read to find out how your decisions are measured in terms of opportunity costs.

Cover Story

Cost Benefit Analysis

When a person makes an investment, they usually expect a return on that investment. The public has made an investment in workforce development programs and here in County Suffolk (NY) that investment has generated an excellent return....From an expenditure of



Successful producers realize that choices involve trade-offs and opportunity costs.

an expenditure of \$19,689,377 in these job-training programs, Suffolk County realized over \$81,922,406 in benefits . . . and that translates to a \$4.16 benefit for each dollar spent!

--Cost Benefit Analysis, Suffolk County Department of Labor, Fall 1998 The process of making a choice is not always easy. Still, individuals, businesses, and government agencies, like the Suffolk County Bureau of Labor, who try to satisfy people's wants and needs, must make decisions. Because resources are scarce, consumers need to make wise choices. To become a good decision maker, you need to know how to identify the problem and then analyze your alternatives. Finally, you have to make your choice in a way that carefully considers the costs and benefits of each possibility.

Trade-Offs and Opportunity Cost

There are alternatives and costs to everything we do. In a world where "there is no such thing as a free lunch," it pays to examine these concepts closely.

Trade-Offs

ONTENTS

The first thing we must recognize is that people face **trade-offs**, or alternative choices, whenever they make an economic decision. To help make the decision, constructing a grid such as that in **Figure 1.5** shows one way to approach the

CHAPTER 1: WHAT IS ECONOMICS? 19

problem. This grid summarizes a decision to be made by Jesse, a newspaper carrier, whose dilemma is how to spend a gift of \$50 in the best way possible.

Jesse realizes that several alternatives are appealing-a soccer ball, jeans, a portable cassette player, several CDs, or concert tickets. At the same time, he realizes that each item has advantages and disadvantages. Some of these items are more durable than others, and some might require his parents' consent. Some even have additional costs while others do not-the cassette player requires batteries and the concert tickets require the use of his parents' car.

To help with his decision, Jesse draws a grid that lists his alternatives and several criteria by which to judge them. Then he evaluates each alternative with a "yes" or "no." In the end, Jesse chooses the jeans because they satisfy more of his criteria than any other alternative.

Using a decision-making grid is one way to analyze an economic problem. Among other things, it forces you to consider a number of relevant alternatives. For another, it requires you to identify the criteria used to evaluate the alternatives. Finally, it forces you to evaluate each alternative based on the criteria you selected.

Opportunity Cost

People often think of cost in terms of dollars and cents. To an economist, however, cost often means more than the price tag placed on a good or service. Instead, economists think broadly in terms of **opportunity cost**-the cost of the next best alternative use of money, time, or resources when one choice is made rather than another. When Jesse made his choice and decided to purchase the jeans, his opportunity cost was the next best choice-the soccer ball or the cassette playerthat he gave up.

Suppose you spend \$5,000 on a used car. The opportunity cost of the purchase is the value of the stereo, apartment, vacation, or other items and activities that you could have purchased with the money spent on the car.

Even time has an opportunity cost, although you cannot always put a monetary value on it. The opportunity cost of taking an economics class, for example, is the history or math class that you could not take at the same time. Thus, part of making economic decisions involves recognizing and evaluating the cost of the alternatives as well as making choices from among the alternatives.

E C O N O M I C SAT A GLANCE

Figure 1.5

Jesse's Decision-Making Grid						
	Criteria					
Alternatives	Costs \$50 or less?	Durable?	Will parents approve?	Future expense unnecessary?	Can use anytime?	
Several CDs	yes	yes	yes	yes	no	
Concert tickets	yes	no	no	no	no	
Cassette player	yes	yes	yes	no	yes	
Soccer ball	yes	yes	yes	yes	no	
Jeans	yes	yes	yes	yes	yes	

Adapted from A Framework for Teaching Basic Economics, Economics America National Council on Economic Education, 1996

Using Tables A decision-making grid is a good way to list and then evaluate alternatives when a decision must be made. What do economists mean when they talk about costs?

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Economic Choices



Trade-Offs In this cartoon, the king faces a trade-off between crops and catapults. *What is the opportunity cost of obtaining two more catapults?*

CONTENTS

Production Possibilities

A popular model economists use to illustrate the concept of opportunity cost is the **production possibilities frontier**, a diagram representing various combinations of goods and/or services an economy can produce when all productive resources are fully employed. In the classic example shown in **Figure 1.6**, a mythical country called Alpha produces two goods—guns and butter.

Identifying Possible Alternatives

Even though Alpha only produces two goods, the country has a number of alternatives available to it. For example, it could choose to use all of its resources to produce 70 units of guns and 300 units of butter, which is shown as point **a** in **Panel A**. Or, it could shift some of its resources out of gun production and into butter, thereby moving to point **b**. Alpha could even choose to produce at point **c**, which represents all butter and no guns, or at point **e**, which is inside the frontier. Alpha has many alternatives available to it, which is why the figure is called a production "possibilities" frontier. Eventually though, Alpha will have to settle on a single combination such as point **a**, **b**, or any other point on or inside the curve, because its resources are limited.

Fully Employed Resources

All points *on* the curve such as **a**, **b**, and **c** represent *maximum* combinations of output possible if all resources are fully employed. To illustrate, suppose that Alpha is producing at point **a** and the people would like to move to point **d**, which represents the same amount of guns, but more butter.

As long as all resources are fully employed at point **a**, however, there are no extra resources available to produce the extra butter. Therefore, point **d** cannot be reached, nor can any other point outside the curve. This is why the figure is called a production possibilities "frontier"-to indicate the maximum combinations of goods and/or services that can be produced.

Opportunity Cost



Making Choices The nation incurs opportunity costs when it makes choices. The money spent on defense cannot at the same time be spent on health services; money spent on health services cannot be spent on education, and so on. *Why does every choice involve an opportunity cost*?

Opportunity Cost

Suppose that Alpha was producing at point **a** and that it wanted to move to point **b**. This is clearly possible so long as point **b** is not outside the frontier. As shown in **Panel B**, the opportunity cost of producing the 100 additional units of butter is the 30 units of guns given up.

As you can see, opportunity cost is a general concept that is expressed in terms of trade-offs, or in terms of things given up to get something else. Opportunity cost is not always measured in terms of dollars and cents. For example, you need to balance the time you spend studying and doing homework and spending time with your friends. If you decide to spend extra hours on your homework, the opportunity cost of this action is less time with your friends.

The Cost of Idle Resources

If some resources were not fully employed, then it would be impossible for Alpha to reach its potential. To illustrate, suppose that Alpha was producing at point **b** in **Panel A** when workers in the butter industry decided to go on strike. Butter production would fall, causing total output to change to point **e**. The opportunity cost of the unemployed resources would be the 100 units of lost butter production.

Production at \mathbf{e} could also be the result of other idle resources, such as factories or land that are available but are not being used. As long as some resources are idle, the country cannot produce on its frontier—which is another way of saying that it cannot reach its full production potential, although it can produce at some point inside it.

Economic Growth

The production possibilities frontier represents potential output at a given point in time. Eventually, however, population may grow, the capital stock may grow, and productivity may increase. If this happens, then Alpha will be able to produce more in the future than it can today.

The effect of economic growth is shown in **Panel C** of **Figure 1.6.** Economic growth made possible by having more resources or increased productivity causes the production possibilities frontier to move outward. Economic growth will eventually allow Alpha to produce at point **d**, which it could not do earlier.



Thinking Like an Economist

Because economists study how people satisfy seemingly unlimited and competing wants with the careful use of scarce resources, they are also concerned with strategies that will help us make the best choices. Some of these strategies are discussed here; others will be discussed in later chapters.

Build Simple Models

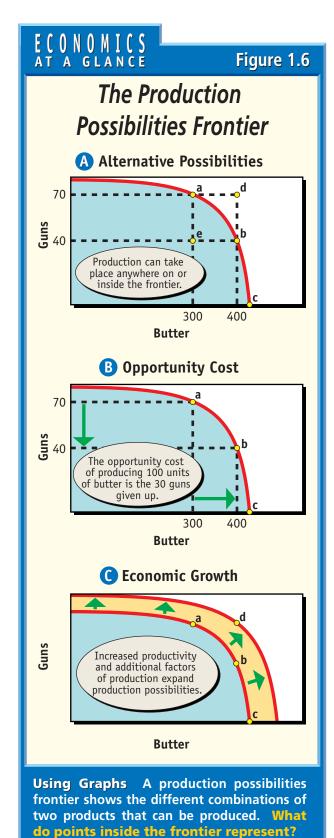
One of the most important strategies of economists is the economic model. A model is a simplified theory or a simplified picture of what something is like or how something works. Simple models can often be constructed that reduce complex situations to their most basic elements. To illustrate, the circular flow diagram in **Figure 1.3** is an example of how complex economic activity can be reduced to a simple model.

Another basic model is the production possibilities frontier illustrated in **Figure 1.6.** Realistically, of course, economies are able to produce more than two goods or services, but the concepts of trade-offs and opportunity costs are easier to illustrate if only two products are examined. As a result, simple models such as these are sometimes all that economists need to analyze or describe an actual situation.

It is important to remember that models are based on assumptions, or things that we take for granted as true. We use them as facts even though we can't be sure that they are. For example, you might assume that a restaurant is out of your price range. You might not even try it because you assume you cannot afford it. However, you might be wrong-the prices at the restaurant might be quite reasonable. The quality of a model is no better than the assumptions that it is based on.

It is also important to keep in mind that models can be revised. Economists use models to better understand the past or present and to predict the future. If an economic model results in a prediction that turns out to be right, the model can be used again. If the prediction is wrong, the model might be changed to make better predictions the next time.

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Employ Cost-Benefit Analysis

Most economic decisions can be made by using **cost-benefit analysis**, a way of thinking about a problem that compares the costs of an action to the benefits received. This is what Jesse did in the decision-making matrix shown in **Figure 1.5**. This decision can be made subjectively, as when Jesse selected the jeans. Or, the decision can be more formal, especially if the costs of the various alternatives are different.

To illustrate, suppose that you like choices A and B equally well. If B costs less, however, then it would be the better choice because you would get more satisfaction per dollar spent. Businesses make investment decisions in exactly this manner, choosing to invest in projects which give the highest return per dollar spent. State and local governments, like the one in Suffolk County, also use cost-benefit analysis to evaluate the effectiveness of public programs.

Careers



Economist

Economists study the way society distributes scarce resources to produce goods and services. They carry on inquiries, collect and analyze data, and observe economic trends.

The Work

Economists in the private sector advise businesses and other organizations on such topics as energy costs, inflation, imports, and employment levels. Those who work for various government agencies may study economic conditions in the United

States or in other countries to estimate the economic effects of new legislation or public policies.

Qualifications

Graduate training is required for most economists in the private sector. Individuals who wish to secure an entrylevel job in the federal government must have a bachelor's degree, with a focus on economics and on statistics, accounting, or calculus.

Take Small, Incremental Steps

Finally, and whenever possible, it also helps to make decisions by taking small, incremental steps toward the final goal. This is especially valuable whenever we are unsure of the exact, or total, cost involved. If the cost turns out to be larger than we anticipated, then the resulting decision can be reversed, without too much being lost.

For example, if someone offers you a steaming cup of beverage, it might be best to take a small sip first. This will allow you to find out if the beverage is cool enough to drink, without paying too high a price if it is not. Few decisions are all-ornothing decisions—sometimes it helps to do a little bit at a time.

The Road Ahead

The study of economics does more than explain how people deal with scarcity. Economics also includes the study of how things are made, bought, sold, and used. It helps answer such questions as, Where do these products come from? Who makes them? How are they made? How do they get to the stores? Who buys them? It provides insight as to how incomes are earned and spent, how jobs are created, and how the economy works on a daily basis. It also provides a more detailed understanding of a **free enterprise economy**—one in which consumers and privately owned businesses, rather than the government, make the majority of the WHAT, HOW, and FOR WHOM decisions.

Topics and Issues

CONTENTS

The study of economics will provide a working knowledge of property rights, competition, supply and demand, the price system, and the economic incentives that make the American economy function. Along the way, topics such as unemployment, the business cycle, inflation, productivity, and economic growth will be covered. The role of business, labor, and government in the American economy also will be examined, along with the relationship of the United States economy to the international community. All of these have a bearing on our **standard of living**—the quality of life based on the possession of the necessities and luxuries that make life easier. You will learn how we measure the value of our production and how productivity helps determine our standard of living. You will find, however, that the way the American people make economic decisions is not the only way to make these decisions. Economists have identified three basic kinds of economic systems. You will analyze these systems in Chapter 2.

Economics for Citizenship

The study of economics helps us to become better decision makers—both in our personal lives and in the voting booths. Economic issues often are debated during political campaigns, and we need to understand the issues before deciding which candidate to support. Most of today's political problems have important economic aspects: How important is it that we balance the federal budget? How can we best keep inflation in check? What methods can we use to strengthen our economy? The study of economics will not provide you with clear-cut answers to all questions, of course, but it will give you a better understanding of the issues involved.

Making the Rational Choice

You have already learned in this chapter that economists study how decisions are made. Every time a choice is made something is given up. Rational choice is taking the things with greater value and giving up those with lesser value. That's the rational thing to do.

But which things have greater value? If everyone felt the same about what they did and did not want, deciding how to use our resources would be simple; the problem is we don't all agree. When you make a decision for yourself alone, it doesn't make much difference how others feel. But many of your decisions will affect other people who may not share your ideas. Making the best choices for groups of people is hard to do.

Textbook economics can be divided into neat sections for study, but the real world is not so orderly. Society is dynamic and things are always changing. In addition, people have different degrees of ambition, strength, and luck. Opinions also differ, and some issues never seem to be settled.

In practice, the world of economics is complex and the road ahead is bumpy. Studying and understanding economics, however, is vital to our understanding of how the world around us works.

Section 3 Assessment

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Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 19, explain what people try to achieve when they make decisions or trade-offs.
- Key Terms Define trade-offs, opportunity cost, production possibilities frontier, costbenefit analysis, free enterprise economy, standard of living.
- **3. Describe** the relationship between trade-offs and opportunity costs.
- List the decision-making strategies that economists use.
- 5. Explain why the study of economics is important to the American free enterprise system.

Applying Economic Concepts

6. Opportunity Costs Identify several possible uses of your time that will be available to you after school today. What will you actually do, and what will be the opportunity cost of your decision? Explain how your decision will or will not affect your friends and members of your family.

Critical Thinking

7. Making Generalizations Study the decisionmaking grid on page 20. Explain the advantages of using such a grid to evaluate alternatives.

> Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CRITICAL THINKING



Sequencing and Categorizing Information

Sequencing involves placing facts in the order in which they occur. *Categorizing* entails organizing information into groups of related facts and ideas. Both actions help you deal with large quantities of information in an understandable way.

Learning the Skill

Follow these steps to learn sequencing and categorizing skills:

• Look for dates or clue words that provide you with a chronological order: *in 2004, the late 1990s, first, then, finally,* and so on.



Steelworker tends blast furnace

- If the information does not happen in sequence, you may categorize it instead. To do so, look for information with similar characteristics.
- List these characteristics, or categories, as the headings on a chart.
- As you read, fill in details under the proper category on the chart.

Practicing the Skill

Read the excerpts that follow, compare the information they contain, then answer the questions.

Excerpt A

In the 1950s and early 1960s, the United States dominated the world steel market. However, construction of new facilities in other countries hurt the domestic steel industry in the 1980s. During the next ten years, U.S. steel firms improved production methods and reduced hourly wages. By 1990 the number of work-hours required to produce a ton of steel fell from 10.5 in 1980 to just 5.3 in 1990. Trade protection, beginning with the 1947 General Agreement on Tariffs and Trades, and later agreements protected many American jobs.

Excerpt B

Competition is the rivalry among producers or sellers of similar goods to win more business by offering the lowest prices or best quality. In many industries effective competition requires a large number of independent buyers and sellers. This large number of competitors means that no one company can noticeably affect the price of a particular product. Competition also requires that companies can enter or exit any industry they choose. Those who feel they could make more profit in another industry are free to get out of the industry they are in.

- **1.** Which passage's information can be organized sequentially? List the main ideas in chronological order.
- **2.** What categories can you use to organize the information in the other excerpt?

Application Activity

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Find two newspaper or magazine articles about an important local economic issue. Sequence or categorize the information on note cards or in a chart.

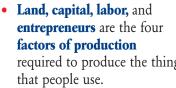
Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

26 UNIT 1 FUNDAMENTAL ECONOMIC CONCEPTS

Section 1

Scarcity and the Science of Economics (pages 5–10)

- The basic economic problem of **scarcity** is due to the combination of people's seemingly unlimited wants and relatively scarce resources.
- In a world of scarce resources. There Is No Such Thing As A Free Lunch (TINSTAAFL).
- Because of scarcity, society has to decide WHAT, HOW, and FOR WHOM to produce.





required to produce the things

- Entrepreneurs are risk-taking individuals who go into business in order to make a profit; they organize the other factors of production.
- The scope of economics deals with description, analysis, explanation, and prediction.

Section 2

Basic Economic Concepts (pages 12–17)

- Consumers use goods and services to satisfy their wants and needs.
- Something has value when it has utility and is relatively scarce.
- Wealth consists of products that are scarce, useful, and transferable to others, but wealth does not include services, which are intangible.
- Markets link individuals and businesses in the circular flow of economic activity; the factors of production are traded in factor markets; goods and services are traded in the product markets.

- **Productivity** and investments in **human capital** help economic growth; investments in human capital are among the most profitable of all investments.
- Increases in specialization and division of labor cause more economic interdependence.

Section 3

Economic Choices and Decision Making (pages 19–25)

- The **opportunity cost** of doing something is the next best alternative, or trade-off, that you give up.
- A decision-making grid can be used to help evaluate alternatives.
- A production possibilities frontier shows the various possible combinations of output that can be produced when all resources are fully employed; production inside the frontier occurs when some resources are idle or are not being used to their maximum capability.
- When economic growth takes place, the production possibilities frontier shifts outward, showing that more products are produced than before.
- The economic way of thinking involves simplification with model building, cost-benefit analysis to evaluate alternatives, and incremental decision making.
- The study of economics will make you a better decision maker and will help you to understand the world around you; however, the study of economics will not tell you which decisions to make.
- The study of economics helps people understand how a free enterprise economy makes the WHAT, HOW, and FOR WHOM decisions.

Chapter 1 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 1—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Write the key term that best completes the following sentences.

capital goods	opportunity cost
consumer goods	scarcity
consumers	services
factors of production	utility
human capital	value

- 1. Economic products designed to satisfy people's wants and needs are called ______.
- 2. The _____ of a CD player can be expressed in dollars and cents.
- **3.** Haircuts, repairs to home appliances, and entertainment are examples of _____.
- 4. _____ arises because society does not have enough resources to produce all the things people would like to have.
- 5. The _____ of going to a football game instead of working would include the money not earned at your job.
- 6. _____ is the sum of the skills, abilities, health, and motivation of people.
- 7. _____ is another name for the capacity of a product to be useful.
- **8.** The only factors of production that are themselves the result of earlier production are _____ .
- 9. Land, capital, labor, and entrepreneurs are _____.
- **10.** People who use goods and services to satisfy their wants and needs are called ______.

Reviewing the Facts

Section 1 (pages 5–10)

- 1. Identify the cause of scarcity.
- **2. List** the three basic economic questions that every society must face.
- **3. Describe** the factors of production required to deliver a service like education.
- **4. Explain** why economics is considered a social science.

Section 2 (pages 12-17)

- **5. Describe** the relationship between goods, services, and consumers.
- **6. Explain** why services are excluded from the measure of wealth.
- 7. **Distinguish** between product markets and factor markets.
- **8. Explain** why economists argue that productivity is important.

Section 3 (pages 19-25)

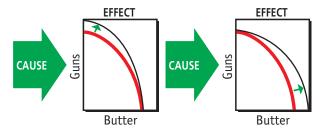
- 9. Describe the nature of an opportunity cost.
- **10. Identify** the economic concept illustrated by the production possibilities frontier.
- 11. Describe incremental decision making.
- 12. Explain why economic education is important.

Thinking Critically

CONTENTS

1. Understanding Cause and Effect Suppose that Alpha, shown in Figure 1.6 on page 23, decided to produce more guns and less butter. What would Alpha have to do to make the change? What would be the opportunity cost of producing more guns? What conditions would have to be met for the new mix of guns and butter to be on the production possibilities frontier? **Chapter 1 Assessment and Activities**

2. Understanding Cause and Effect Copy the two diagrams of the production possibilities frontiers shown below. Then, write captions that explain what each diagram is showing.



Applying Economic Concepts

- **1. Scarcity** What three choices must a society make because of scarcity?
- **2. Utility** How is a product's utility related to its value?
- **3. Cost-Benefit Analysis** How would you apply the concept of cost-benefit analysis to the decision to finish high school? To further your education?

Math Practice

A city administrator with a \$100,000 annual budget is trying to decide between fixing potholes or directing traffic at several busy intersections after school. Studies have shown that 15 cars hit potholes every week, causing average damages of \$200. Collisions at the intersections are less frequent, averaging one per month at an average cost of \$6,000, although none have ever caused injuries or deaths. Use this information to answer the following questions.

- 1. What are the annual costs from the pothole damage?
- **2.** What are the annual costs due to damage from collisions?
- **3.** Given the size of the annual budget, make your recommendation as to which project should be undertaken. Explain you answer in terms of dollar benefits per dollar spent.

Thinking Like an Economist

Without using the numbers in the math practice problem above, write a paragraph describing the alternatives, trade-offs, and opportunity costs that face the city administrator. What other issues do you think are important to a cost-benefit analysis of this type?

Technology Skill

Using a Spreadsheet Keep track of your economic decisions for one week. Use your data to create a spreadsheet, highlighting your weekly spending habits.

- 1. In cells B1 through E1, type *Food*, *Clothing*, *Entertainment*, and *Other*. In cell F1, type *Total*.
- 2. In cells A2 through A8, type the days of the week, starting with *Monday* in cell A2. In cell A9, type *Total*.
- **3.** In cells B2 through E2, enter the amount spent in each category on Monday.
- **4.** In cell F2, use a formula such as =SUM(B2:E2) to calculate total expenditures on Monday. Click and drag this formula to cells F3 through F8 to find the other weekday sums.
- 5. Compute total expenditures for cells B9–F9.

Building Skills

Sequencing and Categorizing Information Identify a reasonably large purchase you recently made or are about to make. What are the trade-offs involved, and what are the criteria you use to evaluate the alternatives? On a separate sheet of paper, illustrate your decision in the form of a decision-making grid like the one below.

Decision-Making Grid				
Alternatives	Criteria 1	Criteria 2	Criteria 3	Criteria 4



CONTENTS

Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook*, *Level 2*.

ECONOMICS WORKSHOP IN ACTION

Working with Resource Scarcity

From the classroom of . . . Douglas Ide Mt. Ararat High School Topsham, Maine

Our resources are limited while our wants are relatively unlimited. In this workshop, you will experiment with methods to overcome the problem of scarcity. You will also answer the three fundamental questions of economics: what to produce, how to produce it, and how to distribute what you produce. Finally, you will analyze why it is important to determine the answers to these questions.

Setting Up the Workshop

For this activity you will need:

- small paper "lunch" bags
- miniature chocolate bars
- marshmallows
- graham crackers

Procedures

STEP 1

Review the concept of scarcity with your group. Remember that scarcity is the economic term that describes a situation where there are not enough products available to satisfy people's needs or wants. Discuss why scarcity *always* exists.

STEP 2

Review the concept of production. Note that production—the creation of goods and services—requires four factors.

The Four Factors of Production:

- Natural Resources
- Labor
- Capital
- Entrepreneurship

STEP 3

CONTENTS

Your teacher will provide you with your group's "resources." Do not open the bag.

STEP 4

Read and discuss these instructions:

This bag contains your resources. You must use these resources and no other, but you may use them in any way you choose. The resources are exactly what they appear to be: chocolate, marshmallows, and graham crackers; they may not be used to represent anything other than that.

STEP 5

Open your bag and study the contents. Discuss what item or items your group can produce with these "resources." Due to **scarcity**, your group may have difficulty in producing one complete unit of "product" for each group member.

STEP 6

Compare the available resources in your bag to the "demand" for the finished product. How many units can be produced? How will you produce them? How will you distribute them? (e.g. Will each member of the group receive a completed unit, or will only some of the members receive the product? If not everyone receives one, how will you determine who receives one?)

Summary Activity

Once you've produced the product, answer the following questions. Take notes as you determine the answers.

- 1. What was your first thought when you opened the bag and examined the amount of resources?
- 2. What did you then have to decide?
- 3. Why did you have to think about how to produce them, and how they would be distributed?
- 4. Were each of the four factors of production used in making your product?
- 5. What resources were used?
- 6. What type of skills and tools did the workers need?
- Create a chart showing the factors of production that are combined into different consumer products that the members of your group buy.



CHAPTER

Economic Systems and Decision Making

Economics & You

In **Chapter 2**, you will learn how economic systems differ and what makes up the major characteristics of the United States market system. To learn more about how economic systems operate, view the Chapter 3 video lesson:

Economic Systems and the American Economy A wide range of choices is characteristic of a market economy.

CONTENTS



Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 2—Chapter Overviews* to preview chapter information. CLICK HERE

Economic Systems

SECTION 1

Study Guide

Main Idea

An economic system is a set of rules that governs what goods and services to produce, how to produce them, and for whom they are produced.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below to identify ways in which a market economy differs from, and is similar to, a command economy.



Key Terms

economy, economic system, traditional economy, command economy, market economy

Objectives

After studying this section, you will be able to:

- 1. **Describe** the characteristics of the traditional, command, and market economies.
- 2. Explain the advantages and disadvantages of the traditional, command, and market economies.

Applying Economic Concepts

Tradition Tradition plays a stabilizing role in our lives. Even the U.S. economy, characterized by freedom and competition, has some elements of tradition.

Cover Story



Bombay, India

McDonald's in India

The Golden Arches finally have arrived in India, but if you get a Big Mac Attack, you're still out of luck. . . . In coming to this predominately Hindu nation, where cows are sacred and most people don't eat beef, McDonald's Corp. ditched the Big Mac for an Indian stand-in, the Maharaja Mac. That's two all-mutton patties, special sauce, lettuce, cheese, pickles and onions, all on a sesame-seed bun.

—The Wall Street Journal, October 14, 1996

he survival of any society depends on its ability to provide food, clothing, and shelter for its people. Because these societies face scarcity, decisions concerning WHAT, HOW, and FOR WHOM to produce must be made.

All societies have something else in common. They have an **economy**, or **economic system**—an organized way of providing for the wants and needs of their people. The way in which these provisions are made determines the type of economic system they have. Three major kinds of economic systems exist—traditional, command, and market. Most countries in the world can be identified with one of these systems.

Traditional Economies

Many of our actions spring from habit and custom. Why, for example, do so many Americans eat turkey on Thanksgiving? Why does the bride toss the bouquet at a wedding? Why do most people shake hands when they first meet, or leave tips in restaurants? For the most part, these practices have been handed down from one generation to the next and have become tradition-they are a part of our culture.

CHAPTER 2: ECONOMIC SYSTEMS AND DECISION MAKING 33

In a society with a **traditional economy**, the allocation of scarce resources, and nearly all other economic activity, stems from ritual, habit, or custom. Habit and custom also dictate most social behavior. Individuals are not free to make decisions based on what they want or would like to have. Instead, their roles are defined by the customs of their elders and ancestors.

Examples

Many societies-such as the central African Mbuti, the Australian Aborigines, and other indigenous peoples around the world-are examples of traditional economies. The Inuits of northern Canada in the 1800s provide an especially interesting case of a traditional economy.

For generations, Inuit parents taught their children how to survive in a harsh climate, make tools, fish, and hunt. Their children, in turn,



Way of Life This woman uses the methods for weaving passed on by her ancestors. *What drives* economic activity in a traditional economy?



taught these skills to the next generation. The Inuit hunted, and it was traditional to share the spoils of the hunt with other families. If a walrus or bear was taken, hunters divided the kill evenly into as many portions as there were heads of families in the hunting party. The hunter most responsible for the kill had first choice, the second hunter to help with the kill chose next, and so on.

Later, members of the hunting party shared their portions with other families, because the Inuit shared freely and generously with one another. The hunter had the honor of the kill and the respect of the village, rather than a physical claim to the entire kill. Because of this tradition of sharing, and as long as skilled hunters lived in the community, a village could survive the long harsh winters. This custom was partially responsible for the Inuit's survival for thousands of years.

Advantages

The main strength of a traditional economy is that everyone knows which role to play. Little uncertainty exists over WHAT to produce. If you are born into a family of hunters, you hunt. If you are born into a family of farmers, you farm. Likewise, little uncertainty exists over HOW to produce, because you do everything the same way your parents did.

Finally, the FOR WHOM question is determined by the customs and traditions of the society. Life is generally stable, predictable, and continuous.

Disadvantages

CONTENTS

The main drawback of the traditional economy is that it tends to discourage new ideas and new ways of doing things. The strict roles in a traditional society have the effect of punishing people

THE GLOBAL ECONOMY

TEACHING CAPITALISM IN RUSSIA

In Nadeshda Shilyayeva's first-grade class, the words of the day are "profit" and "inventory." As the kindly teacher bounces her pointer along the curly blackboard script, her 26 students at School 139 sing the syllables in unison.

"Now what do we call the money left over in Misha's wallet after all his expenses are paid?" asked Miss Shilyayeva. "Profit!" shouted a pigtailed 7-year-old girl named Dasha. The teacher continued, "And why does Misha need this profit?"

Silence. Then a small voice ventured, "So he can"—a pause—"expand his store?"

"Excellent, Andrushka!" boomed the teacher's voice.

who act differently or break rules. The lack of progress leads to a lower standard of living than in other types of economic societies.

Command Economies

Other societies have a **command economy**, one in which a central authority makes most of the WHAT, HOW, and FOR WHOM decisions. Economic decisions are made by the government: the people have little, if any, influence over how the basic economic questions are answered.

Examples

There are few command economies in the world today, but they still can be found in North Korea and Cuba. Until recently, the People's Republic of China, the communist bloc countries of Eastern Europe, and the former Soviet Union also had command economies.

In the former Soviet Union, for example, the government made the major economic decisions. The State Planning Commission directed nearly every Ten years ago, this kind of aggressive attempt to plant a seed of capitalism in her young students would have landed Miss Shilyayeva in the *gulag* [Soviet labor camp]. Today she is among a growing number of elementary school teachers in Russia who have seen the future and know that in order to survive, her students will need to be able to compute interest rates.

"If we don't teach children about the market economy from an early age," said Miss Shilyayeva, 57, "they will end up like us. The older generation knew nothing about economics. We never gave it a thought. As a result, we are like blind kittens, bumping into walls, looking for a way out."

-The New York Times, Feb. 9, 1997

Critical Thinking

- 1. Analyzing Information What topics are the first graders studying?
- 2. Finding the Main Idea Why does the teacher believe it is important for her students to learn about the market economy?

aspect of the Soviet economy. It determined needs, decided goals, and set production quotas for major industries. If the State Planning Commission wanted growth in heavy manufacturing, it shifted resources from consumer goods to that sector. If it wanted to strengthen national defense, it directed resources to the production of military equipment and supplies.

Advantages

ONTENTS

The main strength of a command system is that it can change direction drastically in a relatively short time. The former Soviet Union went from a rural (or primitive) agricultural society to a leading industrial nation in just a few decades. It did so by emphasizing heavy industry and industrial growth rather than the production of consumer goods.

During this period, the central planning agency shifted resources around on a massive scale. Consumer goods were virtually ignored, and when the country faced a shortage of male workers on construction projects, the government put women to work with picks and shovels.

CHAPTER 2: ECONOMIC SYSTEMS AND DECISION MAKING 35

Another advantage is that there is little uncertainty in this type of economy. People do not have to worry about what they will study, or where they will work, or if they might lose their job because these decisions are made for them. Most command economies tend to provide minimum levels of education, health, and other public services at little or no cost to its people.

Disadvantages

One disadvantage of a command system is that it is not designed to meet the wants of consumers, even though many basic needs are provided. In the case of Soviet industrial development, generations were forced to do without such consumer goods as cars, home appliances, and adequate housing. People often were told to sacrifice for the good of the state and the benefit of future generations.

A second disadvantage is that the system does not give people the incentive to work hard. In most command economies, workers with different skills and responsibilities receive similar wages. In addition, people seldom lose their jobs, regardless of the quality of their work. As a result, many people work just hard enough to fill the production quotas set by planners.

This can have unexpected results. At one time in the former Soviet Union, central planners set production quotas for electrical motors to be measured in tons of output per year. Workers soon discovered that the easiest way to fill the quota was to add weight to the motors. As a result, Soviet workers made some of the heaviest electrical motors in the world. They also produced some of the heaviest chandeliers in the world for the same reason. Some were so heavy that they fell from ceilings.

A third weakness is that the command economy requires a large decision-making bureaucracy. Many clerks, planners, and other administrators are needed to operate the system. Most decisions cannot be made until after consulting a number of people and processing a large amount of paperwork. These procedures slow decision making and raise the costs of production.

Yet a fourth weakness of a command economy is that it does not have the flexibility to deal with minor, day-to-day problems. Even when some change is needed, the sheer size of the bureaucracy discourages even the smallest adjustments. As a result, command economies tend to lurch from one crisis to the next-or collapse completely as in the case of the former Soviet Union.

Finally, people with new or unique ideas find it difficult to get ahead in a command economy. Rewards for individual initiative are rare. Each person is expected to perform a job in a factory, in the bureaucracy, or on a farm, according to the economic decisions made by central planners.

Market Economies

In a **market economy**, people and firms act in their own best interests to answer the WHAT, HOW, and FOR WHOM questions. In economic terms, a market is an arrangement that allows buyers and sellers to come together in order to exchange goods and services. A market might be in a specific location, such as a farmers' market or a flea market. A list of phone numbers for lawn-mowing services posted on a local bulletin board also acts as a market. As long as a mechanism exists for buyers and sellers to get together, a market can exist.

In a market economy, people's decisions act as votes. When consumers buy a particular product, they are casting their dollar "votes" for that product. After the "votes" are counted, producers know what people want. Because producers are always looking for goods and services that consumers will buy, the consumer plays a key role in determining WHAT to produce.

Examples

Many of the largest and most prosperous economies in the world, such as the United States, Canada, Japan, South Korea, Singapore, Germany, France, Great Britain, and other parts of Western Europe, are based on the concept of a market economy. While there are also many significant differences among these countries, the common thread of the market binds them together.

Advantages

One advantage of a market economy is that, over time, it can adjust to change. During the gasoline shortage of the 1970s, for example, consumers



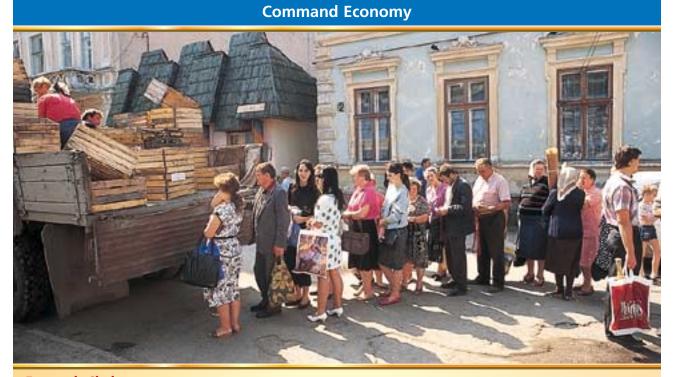
reduced their demand for large, gas-guzzling automobiles and increased their demand for smaller, fuel-efficient ones. Because auto makers still wanted to sell cars, they moved resources from the production of large cars to small ones.

When gas prices finally declined in the mid-1980s, the trend slowly began to reverse. Consumers wanted to buy large cars again, so auto makers began making large, although more fuelefficient, vehicles again. Changes in a market economy, then, tend to be gradual. Unlike the traditional economy, change is neither prohibited nor discouraged. Unlike the command economy, change is neither delayed because of bureaucracy, nor suddenly forced on people by others.

A second major strength of the market economy is its high degree of individual freedom. Producers may make whatever they think will sell. They also decide the HOW question by producing their products in the most efficient manner. Consumers, on the other hand, spend their money on the goods and services they prefer. Meanwhile, individuals are free to choose where and when they want to work, and if they should invest further in their own education and training.

A third strength is the relatively small degree of government interference. Except for certain important concerns, such as national defense and environmental protection, the government tries to stay out of the way so that buyers and sellers can go about their business. As long as competition exists, the market economy tends to take care of itself.

A fourth advantage is that decision making is decentralized, or not concentrated in the hands of a few. Literally billions—if not trillions—of individual economic decisions are made daily. Collectively, these decisions direct scarce resources into uses that consumers favor. Because individuals make these decisions, everyone has a voice in the way the economy runs.



Economic Choices Consumers line up to buy scarce goods at a marketplace in the western Ukraine. In a command economy, like the former Soviet Union, many products are unavailable or in short supply, while other overproduced goods sit in warehouses. *Who is responsible for making the basic economic decisions in a command economy*?

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A fifth strength of the market economy is the incredible variety of goods and services available to consumers. Almost any product can and will be produced if a buyer for it exists. Recent products include everything from Internet bookstores to 24hour cable television cartoon and comedy networks to ultrasound devices that keep the neighbor's dog out of your yard. In short, if a product can be imagined, it can be produced in hopes that people are willing to buy it. A sixth strength is the high degree of consumer satisfaction. In a market economy, almost everyone can satisfy his or her wants because the choice one group makes does not mean that another group cannot have what it wants. To illustrate, if 51 percent of the people want blue shirts, and 49 percent want white ones, people in both groups can still get what they want. Unlike an election, the minority does not have to live with choices the majority makes.

ECONOMICS At a glance

Figure 2.1

	Traditional	Command	Market
Advantages	 Sets forth certain economic roles for all members of the community Stable, predictable, and continuous life 	 Capable of dramatic change in a short time Little uncertainty over choice of career, where to work, or losing job Many basic education, public health, and other public services available at little or no cost 	 Able to adjust to change gradually Individual freedom for everyone Lack of government interference Decentralized decision making Incredible variety of goods and services High degree of consumer satisfaction
Disadvantages	 Discourages new ideas and new ways of doing things Stagnation and lack of progress Lower standard of living 	 Does not meet wants and needs of consumers Lacks effective incentives to get people to work Requires large bureaucracy, which consumes resources Has little flexibility to deal with small, day-to-day changes New and different ideas discouraged, no room for individuality 	 Rewards only productive resources; does not provide for people too young, too old, or too sick to work Workers and businesses face uncertainty as a result of competition and change Does not produce enough public goods such as defense, universal education, or health care Must guard against market failures

Comparing Economic Systems

Using Charts Every society has an economic system. The type of system that is best for a society depends on the ability of that system to satisfy people's wants and needs, and to fulfill its economic goals. What conditions must be met for a market economy to be effective?

CONTENTS

38 UNIT 1 FUNDAMENTAL ECONOMIC CONCEPTS

Disadvantages

One of the disadvantages of the market economy is that it does not provide for the basic needs of everyone in the society—some members of the society may be too young, too old, or too sick to care for themselves. These people would have difficulty surviving in a pure market economy without assistance from government or private groups.

Another disadvantage of a market economy is that it does not provide enough of the services that people value highly. For example, private markets cannot adequately supply a system of justice, national defense, universal education, or comprehensive health care. This is because private producers concentrate on providing products they can sell. Therefore, government must provide these services, paid for with tax dollars.

A third disadvantage of a market economy is the relatively high degree of uncertainty that workers and businesses face as the result of change. Workers, for example, worry that their company will move to another city or country in order to lower the cost of production. Employers worry that another company will produce a better and less expensive product, thereby taking their customers.

Finally, market economies can fail if three conditions are not met. First, markets must be reasonably competitive, allowing producers to compete with one another to offer the best value for the price. Second, resources must be reasonably free to move from one activity to another. Workers, for example, need the freedom to change jobs if they have a better opportunity elsewhere. Producers need the freedom to produce goods and services in the best way they know how. Third, consumers need access to adequate information so that they can weigh the alternatives and make wise choices.

When markets fail, some businesses become too powerful and some individuals receive incomes much larger than that justified by their productivity. Because of this, we often have to rely on government to ensure that sufficient competition, freedom of resource movement, and adequate information exist.



Worth Its Weight Many currencies get their names from words meaning "weight" because merchants in ancient times would weigh coins made from precious metals to assess their value. Among these currencies are the Spanish *peseta*, the Mexican *peso*, and the Italian *lira*.

Section 1 Assessment

CONTENTS

Checking for Understanding

- Main Idea Using your notes from the graphic organizer activity on page 33, explain how a market economy determines who will receive the benefits from what is produced and sold.
- Key Terms Define economy, economic system, traditional economy, command economy, market economy.
- **3. Describe** the characteristics of a traditional economy.
- Identify the advantages and disadvantages of a command economy.
- Identify the advantages and disadvantages of a market economy.

Applying Economic Concepts

6. Tradition Give an example of an economic activity from a traditional economy that is seen in today's market economy. Describe how important this activity is for the economy.

Critical Thinking

- 7. Analyzing Information How are roles defined in a traditional economy?
- 8. Making Comparisons How are the WHAT, HOW, and FOR WHOM questions answered in the command and market economies?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CHAPTER 2: ECONOMIC SYSTEMS AND DECISION MAKING 39

CRITICAL THINKING



Making Comparisons

When you make comparisons, you determine similarities and differences among ideas, objects, or events. Making comparisons is an important skill because it helps you choose among alternatives.

Learning the Skill

Follow these steps to make comparisons:

- Identify or decide what will be compared.
- Determine the common area or areas in which comparisons can be drawn.
- Look for similarities and differences within these areas.

Practicing the Skill

Read the passages below, then answer the questions that follow.

Viewpoint A

Russians are readily embracing the middle-class lifestyle of Western democracies. Nothing better symbolizes the changes sweeping this nation than the flea market that has taken over Moscow's Exhibition of Economic Achievements park. Built as a shrine to the Soviet system, it is now the center of free enterprise in the city. Muscovites swarm here to get deals on all sorts of goods. A park pavilion once housed an exhibit celebrating the Soviet space program. It has now become an auto showroom. A few space capsules remain, scattered among the used cars. But the crowds are here to see the new Fords and Jeeps.

Viewpoint B

Besides the inefficiency of many Russian factories, capitalism there is not yet the same as it is in the United States. Private capital apparently is steered into projects controlled by small groups in power. There is a strong criminal organization in Russia that imposes serious costs on anybody wishing to do business. "The West supports Russia, despite the corruption there, because of the former Soviet state's economic and military stature on the world stage," said a World Bank spokesperson. "The reason we need to help is that the whole of the former Soviet Union represents not only an economic threat or economic opportunity, but politically it does have a somewhat different weight than some other countries because of its defense and offensive capabilities."

The spokesperson also noted, "I don't doubt that there has been

corrupt practice . . . but the overall question of global stability is also an issue."

- 1. What is the topic of these passages?
- **2.** How are the passages similar? Different?
- **3.** What conclusions can you draw about the opinions of the writers?



Statue of farm workers at the Exhibition of Economic Achievement

Application Activity

CONTENTS

Survey your classmates about an issue in the news. Summarize the opinions and write a paragraph comparing the different opinions.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Evaluating Economic Performance

SECTION 2

Study Guide

Main Idea

The social and economic goals of the United States include economic freedom, economic security, and economic equity.

Reading Strategy

Graphic Organizer As you read the section, indentify seven major economic and social goals by completing a graphic organizer like the one below.



Key Terms

Social Security, inflation, fixed income

Objectives

After studying this section, you will be able to:

- 1. **Describe** the basic economic and social goals used to evaluate economic performance.
- 2. Evaluate the trade-offs among economic and social goals.

Applying Economic Concepts

Freedom and Equity Read to find out how freedom and equity are related to the level of satisfaction people have with their economic system.

Cover Story

Minimum Wage Bill Sparks a Division

Democrats and Republicans in Congress are fighting over a \$1 increase in the federal minimum wage... to \$6.15 an hour from \$5.15. The bill is backed by President Clinton. It is opposed by many Republicans and business groups, including the U.S. Chamber of Commerce and the National Federation of Independent Businesses.



Minimum-wage workers might get a raise.

Opponents say a minimum-wage increase . . . would result in the loss of jobs and would hurt businesses. . . . [Proponents] framed the fight as a women's and family issue. . . . "The overwhelming majority who receive the minimum wage are women."

-The Boston Globe, April 8, 1999

reprint the system falls short, then we may demand laws to change the system falls short, then we may demand system the system falls short, then we may demand laws to change the system until the needs are met.

Economic and Social Goals

In the United States, people share many broad social and economic goals. While it might be difficult to find them listed in any one place, they are repeated many times in the statements that friends, relatives, community leaders, and elected officials make. We can categorize those statements into seven major economic and social goals.

Economic Freedom

ONTENTS

In the United States, people place a high value on the freedom to make their own economic decisions. People like to choose their

CHAPTER 2: ECONOMIC SYSTEMS AND DECISION MAKING 41

Economic and Social Goals



Economic Equity Our nation values the ideal of equal pay for equal work. *What legislation safeguards economic equity?*

own occupations, employers, and uses for their money. Business owners like the freedom to choose where and how they produce. The belief in economic freedom, like political freedom, is one of the cornerstones of American society.

Economic Efficiency

Most people recognize that resources are scarce and that factors of production must be used wisely. If resources are wasted, fewer goods and services can be produced and fewer wants and needs can be satisfied. Economic decision making must be efficient so that benefits gained are greater than costs incurred.

Economic Equity

Americans have a strong sense of justice, impartiality, and fairness. Many people, for example, believe in equal pay for equal work. As a result, it is illegal to discriminate on the basis of age, sex, race, religion, or disability in employment. When it comes to selling products, most people feel that advertisers should not be allowed to make false claims about their products. Many states even have "lemon laws" that allow new car buyers to return their cars if they have too many repairs.

Economic Security

Americans desire protection from such adverse economic events as layoffs and illnesses. States have set up funds to help workers who lose their jobs. Many employers have insurance plans to cover the injuries and illnesses of their workers. On the national level, Congress has set up **Social Security**-a federal program of disability and retirement benefits that covers most working people.

More than 90 percent of American workers participate in the Social Security system. Retirees, survivors, disabled persons, and medicare recipients are eligible for benefits. Survivors are spouses and children of deceased persons covered by Social Security. Medicare provides health insurance for persons 65 or older.

Full Employment

When people work, they earn income for themselves while they produce goods and services for others. If people do not have jobs, however, they cannot support themselves or their families, nor can they produce output for others. As a result, people want their economic system to provide as many jobs as possible.

STANDARD&POOR'SINFOBYTE

Economic Indicators Economic indicators are economic statistics reflecting the general direction of the economy. Some indicators are termed *leading* indicators because they tend to lead or forecast the direction of the economy or business cycle; the stock market is known as a leading indicator. Another important indicator is the U.S. Department of Labor's quarterly Employment Cost Index, which measures the rate of change in employee compensation. Like the average hourly earnings data, it allows economists to keep a beat on wage inflation, which is often seen as a catalyst to overall inflation.

42 UNIT 1 FUNDAMENTAL ECONOMIC CONCEPTS



Price Stability

Another goal is to have stable prices. If **inflation**– a rise in the general level of prices–occurs, workers need more money to pay for food, clothing, and shelter. People who live on a **fixed income**– an income that does not increase even though prices go up–find that bills are harder to pay and that planning for the future is more difficult. High rates of inflation can discourage business activity. When there is inflation, interest rates tend to increase. High interest rates discourage businesses both from borrowing and spending. Price stability makes budgeting easier and adds a degree of certainty to the future.

Economic Growth

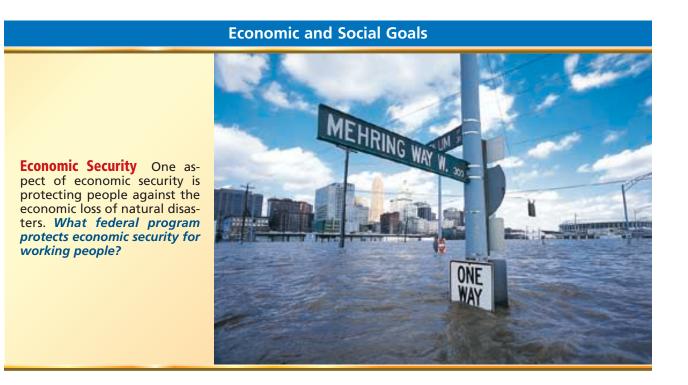
The last major goal of most Americans is economic growth. Most people hope to have a better job, a newer car, better clothes, their own home, and a number of other things in the future. Growth is needed so that people can have more goods and services. Because the nation's population is likely to grow, economic growth is necessary to meet everyone's needs.

Future Goals

These goals are ones on which most people seem to agree. As our society evolves, however, it is entirely possible that new goals will be added. Do people feel that a cleaner environment is important enough to be added to the list of goals? Should we add the preservation of an endangered species, such as the timber wolf and the wild tiger, to the list? In the end, Americans must decide on the goals important to them.

Other countries and their leaders and citizens must also make important choices regarding their goals. For example, an economic goal for many developing nations from the 1950s through the mid-1970s was to increase the goods and services they produced. The idea was that big gains in production would "trickle down" to the poorest people.

By the mid-1990s, many developing nations had achieved regular increases in their production. Living conditions for the poor in most countries, however, did not improve much. Today, basic human needs have become a focus of development policies. These needs include food, shelter, health, protection, and the freedom to make choices about one's life.



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CHAPTER 2: ECONOMIC SYSTEMS AND DECISION MAKING 43

CYBERNOMICS SPOTLIGHT

Job Outlook

The freedom to make our own economic decisions-including choosing our occupations and where to work—is a cherished right for many people. Information available on the World Wide Web can provide help with making those decisions. One useful online source is the Occupational Outlook Handbook from the U.S. Bureau of Labor Statistics. It provides job descriptions, earnings, job outlooks, and educational requirements about hundreds of occupations-from "able seamen" to "zoologists."

Trade-Offs Among Goals

M People sometimes have different ideas about how to reach a goal. At other times, the goals themselves might conflict with one another because even economic policies have opportunity costs. For example, a policy that keeps foreignmade shoes out of the United States could help the goal of full employment in the local shoe industry. This policy might work against individual freedom, however, if people ended up with fewer choices of shoes to buy. Or, a new shopping center built near

a highway may stimulate economic growth in one area of a community. At the same time, it could threaten the stability and security of merchants who run stores in the downtown area.

Even an increase in the minimum wage involves a conflict of goals. On one hand, supporters of the increase might argue that an increase is the equitable, or "right," thing to do. Opponents might argue that increasing the minimum wage would do more harm than good. A higher minimum wage increases costs of production for firms that pay this wage. In addition, it restricts the freedom of employers to pay wages that they think are fair.

So, how are trade-offs among goals resolved? In the case of the minimum wage, people compare their estimates of the costs against their estimates of benefits-and then exercise their right to vote for political candidates that support their position. If the majority of people feel that it is too low, then it will be raised. The minimum wage then tends to stay at a higher level for a while until the majority of people feel that it again needs changed.

For the most part, people, businesses, and government usually are able to resolve conflicts among goals. Fortunately, the economic system of the United States is flexible enough to allow choices, accommodate compromises, and still satisfy the majority of Americans most of the time.

Section 2 Assessment

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Checking for Understanding 1. Main Idea Using your notes from the graphic organizer activity on page 41, explain why it is important to set economic goals. economic equity? 2. Key Terms Define Social Security, inflation, Critical Thinking fixed income. 3. Describe the seven major goals of the United 7. Analyzing Information Why is economic States economy. growth an important goal? 4. Explain how an increase in the minimum wage might involve a conflict of goals. 5. Describe some of the economic choices peogoals? ple and producers in the United Stales are free to make.

Applying Economic Concepts

- 6. Freedom and Equity How do laws against false advertising promote the goal of
- 8. Making Generalizations What characteristics does the United States economy have that allow it to resolve conflicts among
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook. Level 2.

BusinessWeek

APRIL 5, 1999

The Internet provides millions with quick access to information. There are trade-offs, however. One is privacy. Powerful database technologies have made it possible to quickly gather personal information on millions of Americans who cruise the Web.

The Internet and the Right of **Privacy**

Like all new technologies, the Internet is creating undreamed-of conflicts. Case in point: The very nature of the Web makes it easy to collect and collate information about people who shop at or even simply visit a Web site, without their

> knowledge. Indeed, using such information is an important part of the business model of many Net companies.

But Net companies are discovering that consumers also care about their privacy. Examples of a growing concern are [evident] everywhere. GeoCities had to settle with the Federal Trade Commission when it sold personal data collected from children without parents' consent. Microsoft Corp. was red-faced and apologetic when it was discovered that the Windows 98 operating system could be used to create a giant database of information about Microsoft customers. Perhaps most notable was the response to Intel Corp.'s plans to ship its new Pentium III microprocessor with a component that could transmit a serial

Newsclip

number whenever the user visits a Web site. The idea of consumers unknowingly leaving behind an ID number when on-line set off howls of protest, and Intel promised to ship the Pentium III with the identifier in the "off" position.

What's happening is that people are worried that their essential democratic right to privacy is being surreptitiously eroded. The idea of the Net building "dossiers" without customers' knowledge conjures up images of secret files, police states, and the loss of freedom. That will create a backlash that can only injure Internet commerce....

Equally germane is a truism of the Information Age: Information is a hugely valuable good in its own right. From that perspective, Net companies have been appropriating information that rightfully does not belong to them. It is akin to stealing for Net companies to gather, use, and resell information on consumers without asking permission.

Net companies have to realize that individuals have the right of first refusal on the information of their lives. For companies to use it, they have to say "please" and exchange something for the information. The Net marketplace has made progress in posting privacy policies on Web sites and curbing intrusions. But time is running out for companies to agree on rules of the game to protect privacy before the backlash does permanent damage to the future of E-commerce.

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Examining the Newsclip

- 1. Analyzing Information What issue is the article addressing?
- 2. Drawing Conclusions What solution to protecting the right of privacy does the article present? In your opinion is this a good solution, or should others be suggested?

CHAPTER 2: ECONOMIC SYSTEMS AND DECISION MAKING 45

Capitalism and Economic Freedom

SECTION 3

Study Guide

Main Idea

Under capitalism, the basic economic decisions are made through the free interaction of individuals looking out for their own best interests.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below to identify the five characteristics of a free enterprise economy. Then provide an example of each.

Example

Key Terms

capitalism, free enterprise, voluntary exchange, private property rights, profit, profit motive, competition, consumer sovereignty, mixed economy, modified private enterprise economy

Objectives

After studying this section, you will be able to:

- 1. **Explore** the characteristics of a free enterprise system.
- 2. Describe the role of the entrepreneur, the consumer, and government in a free enterprise economy.

Applying Economic Concepts

Voluntary Exchange Read to find out why voluntary exchange is one of the most popular features of a market economy.

Cover Story

Madame C.J. Walker

Madame C.J. Walker-Sarah Breedlove-was a highly successful entrepreneur, widely considered to be the first African-American millionairess. Walker was known and respected not only for her business acumen but for her inspirational political and social advocacy and her philanthropy. The daughter of former



Madame C.J. Walker

marketing network, headquartered in Indianapolis, that employed thousands of African-American women and was the largest African-American owned business in the nation. Walker encouraged women's independence by training others and by serving as a powerful role model.

-National Women's Hall of Fame, ©1998

slaves, Walker worked initially

as a washerwoman until she

devised a hair care and groom-

ing system to meet the needs of

African-American women in 1905. Supervising the manufacture of a variety of products, she

also developed an enormous

market economy is normally based on a system of capitalism, where private citizens, many of whom are entrepreneurs, own the factors of production. Free enterprise is another term used to describe the American economy. In a free enterprise economy, competition is allowed to flourish with a minimum of government interference.

Competition and Free Enterprise

M A free enterprise economy has five important In characteristics-economic freedom, voluntary exchange, private property rights, the profit motive, and competition.

Economic Freedom

Individuals as well as businesses enjoy economic freedom, the first characteristic of capitalism. People, for example, have the freedom to choose their occupation and their employer. To a lesser extent, they can choose to work where and when they want. They may work on the west coast, east coast, or in Alaska. They may work days, nights, indoors, outdoors, in offices, or in their homes.



With economic freedom, people can choose to have their own business or to work for someone else. They can apply for jobs, and they have the right to accept or reject employment if offered. Economic freedom also means that people can leave jobs and move on to others that offer greater opportunity.

Businesses also enjoy economic freedom. They are free to hire the best workers, and they have the freedom to produce the goods and services they feel will be the most profitable. Businesses can make as many or as few goods and services as they want, and they can sell them wherever they please. They have the right to charge whatever price they feel is profitable, and they are free to risk success or failure.

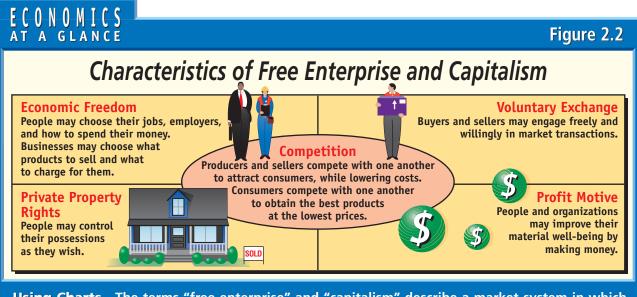
Voluntary Exchange

A second characteristic of capitalism is **voluntary exchange**—the act of buyers and sellers freely and willingly engaging in market transactions. Moreover, transactions are made in such a way that both the buyer and the seller are better off after the exchange than before it occurred. Buyers, for example, can do many things with their money. They can deposit it in the bank, hide it under a mattress, or exchange it for goods or services. If they spend their money on a product, they must believe that the item being purchased is of greater value to them than the money they gave up.

With voluntary exchange, sellers also have many opportunities to sell their products. If they exchange their goods and services for cash, they must feel that the money received is more valuable than the product being sold, or they would not sell in the first place. In the end, the transaction benefits both buyer and seller or it would not have taken place. Both the buyer and the seller obtained something they believed had more value than the money or products they gave up.

Private Property Rights

Another major feature of capitalism is the concept of **private property rights**, the privilege that entitles people to own and control their possessions as they wish. Private property includes both tangible items such as houses and cars, and intangible items such as skills and talents. People are free to make decisions about their property and their own abilities.



Using Charts The terms "free enterprise" and "capitalism" describe a market system in which the factors of production are owned by private citizens, and businesses are allowed to compete for profits with minimal governmental interference. What items are included under the category of private property?

Free Enterprise



Economic Freedom The freedom to own a business is a hallmark of free enterprise. What other characteristics does a free enterprise economy have?

They have the right to use or abuse their property as long as they do not interfere with the rights of others.

Private property gives people the incentive to work, save, and invest. When people are free to do as they wish with their property, they are not afraid to use, accumulate, or lend it. Private property gives people the incentive to be successful; they know that if they succeed they will be able to keep any rewards they might earn.

Profit Motive

Under free enterprise and capitalism, people are free to risk their savings or any part of their wealth in a business venture. If the venture goes well for them, they will earn rewards for their efforts. If things go poorly, they could lose part or all of their investment. The very possibility of financial gain, however, encourages many people to become *entrepreneurs*, or those who risk entering business in hopes of earning a profit. What, however, is profit? Consider the earlier case of voluntary exchange. Remember that the buyer gives up money to obtain a product, and the seller gives up the product to obtain money. Unless both parties believe they will be better off afterward than before, neither will make the exchange. When exchange takes place, it does so only because both parties feel they will make a profit.

Profit, then, is the extent to which persons or organizations are better off at the end of a period than they were at the beginning. The **profit motive**—the driving force that encourages people and organizations to improve their material well-being—is largely responsible for the growth of a free enterprise system based on capitalism.

Competition

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Finally, capitalism thrives on **competition**—the struggle among sellers to attract consumers while lowering costs. Competition is possible because private individuals, acting as entrepreneurs, own the factors of production and have the freedom to produce the products they think will be the most profitable.

Because capitalism is based on freedom and voluntary exchange, buyers compete to find the best products at the lowest prices. The result is that goods and services are produced at the lowest cost and are allocated to those who are willing and able to pay for them.

The Role of the Entrepreneur

The entrepreneur is one of the most important people in the economy. The entrepreneur organizes and manages land, capital, and labor in order to seek the reward called profit.

Entrepreneurs are the ones who start up new businesses such as restaurants, automobile repair shops, Internet stores, and video arcades. They include people who may have worked for others at one time, but have decided to quit and start their own businesses. Entrepreneurs want to "be their own boss" and are willing to risk everything to make their dreams come true.

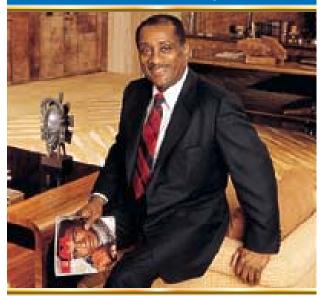
Many entrepreneurs fail. Of course, others survive and manage to stay in business with varying degrees of success. A few, and only a very few, manage to become fantastically wealthy and famous.

Well-known entrepreneurs include Bill Gates, who founded Microsoft, John Johnson of Johnson Publishing Co., and Mary Kay Ash, who founded Mary Kay Cosmetics.

Despite the high rate of failure among entrepreneurs, the dream of success is often too great to resist. The entrepreneur is both the sparkplug and the catalyst of the free enterprise economy. When an entrepreneur is successful, everybody benefits. The entrepreneur is rewarded with profits, a growing business, and the satisfaction of a job well done. Workers are rewarded with more and betterpaying jobs. Consumers are rewarded with new and better products. The government is rewarded with a higher level of economic activity and larger tax receipts. These receipts can be used to build roads, schools, and libraries for people not even connected with the original entrepreneur.

Nor does it stop there. Successful entrepreneurs attract other firms to the industry who rush in to "grab a share" of the profits. To remain competitive

The Role of the Entrepreneur



Building a Business John Johnson started his publishing business in 1942 with a \$500 loan on his mother's furniture. Today, Johnson Publishing is the world's largest African American–owned publishing company. *What aspects of the economy benefit when an entrepreneur succeeds*? and stay in business, the original entrepreneur may have to improve the quality or cut prices, which means that customers can buy more for less. In the end, the entrepreneur's search for profits can lead to a chain of events that involves new products, greater competition, more production, higher quality, and lower prices for consumers.

The Role of the Consumer

In the United States, consumers often are thought of as having power in the economy because they determine which products are ultimately produced. For example, a company may try to sell a certain item to the public. If consumers like the product, it will sell and the producer will be rewarded for his or her efforts. If consumers reject the product and refuse to purchase it, the firm may

Careers

Law Enforcement Officer

Law enforcement work can range from keeping order in public places and investigating crimes to controlling traffic and lecturing the public on safety.

The Work

Every level of government needs law enforcement officers. In small communities, officers may be called on to do many tasks. In larger cities, work may be highly specialized, including chemical and firearms



analysis, fingerprint identification, and harbor and border patrol. The challenges of the work are numerous. Working long hours, risking injury, and taking the chances involved in pursuing and apprehending lawbreakers demands dedication to the job.

Qualifications

CONTENTS

Most law enforcement jobs are covered by civil service regulations. Usually candidates must be at least 21 years old and must be U.S. citizens. Most jobs require a high school education or more. The more specialized jobs require college training. The Role of the Consumer



Consumer Sovereignty The principle of consumer sovereignty says that in a competitive economy, customers determine what is produced by choosing what they will buy. *Why do firms have to sell products customers want in order to earn a profit?*

go out of business. **Consumer sovereignty** describes the role of the consumer as sovereign, or ruler, of the market. More commonly, this is expressed in a different way by saying that "the customer is always right."

In recent years, producers have had outstanding successes with various products, including home video games, sport utility vehicles, and personal computers. Many other products-including "New" Coke, celery flavored Jell-O, chewable toothpaste in tablet form, and bacon you cook in your toaster-were promptly rejected by consumers.

Consumers' wants change constantly as modern communications and travel expose people to new ideas and products. Today, Americans purchase more home computers every year than TV sets, even though computers were barely known just 20 years ago. Consumers buy products from all over the world, and more and more often they use the Internet to find product reviews and other information about the goods before they purchase.

Consumers, then, play an important role in the American free enterprise economy. They have a say in what is—and what is not—produced when they express their wants in the form of purchases in the marketplace. The dollars they spend are the "votes" used to select the most popular products.

The Role of Government

Government–whether national, state, or local–has an economic role to play that reflects the desires, goals, and aspirations of its citizens. Government has become involved in the economy because Americans want its involvement. Consequently, it has become a protector, provider of goods and services, consumer, regulator, and promoter of national goals. The role of government is normally justified whenever its benefits outweigh its costs.

Protector

As protector, the United States government enforces laws such as those against false and misleading advertising, unsafe food and drugs, environmental hazards, and unsafe automobiles. It also enforces laws against abuses of individual freedoms. Employers, for example, cannot discriminate against workers because of their age, gender, race, or religion. In short, the government protects property rights, enforces contracts, and generally tries to make sure that everyone follows the "rules of the game" to ensure an efficient and fair economy.

Provider and Consumer

All levels of government provide goods and services for citizens. The national government, for example, supplies defense services. State governments provide education and public welfare. Local governments provide, among other things, parks, libraries, and bus services.



In the process of providing, government consumes factors of production just like any other form of business. In recent years the government has grown so large that it is now the second largest consuming unit in the economy, trailing only the consumer sector.

Regulator

In its role as a regulator, the national government is charged with preserving competition in the marketplace. It also oversees interstate commerce, communications, and even entire industries such as banking and nuclear power. Many state governments regulate insurance rates and automobile registrations. Local governments even regulate business activity with building and zoning permits.

The regulatory role of government is often controversial. Most businesses do not like to be told how to run their affairs, and they argue that consumers can always sue in court if there are problems. On the other hand, many consumers feel that they do not always know when they are at risk—as in the case of potential food poisoning from unsafe food preparation practices. As a result, consumers usually think that the government is in a better position to monitor and regulate such activities.

Promoter of National Goals

Government reflects the will of a majority of its people. As a result, many government functions reflect people's desire to modify the economic system to achieve the economic goals of freedom, efficiency, equity, security, full employment, price stability, and economic growth. A government program such as Social Security, as well as laws dealing with child labor and the minimum wage, reveal how Americans have modified their free enterprise economy.

Because of these modifications, and because there are some elements of tradition in our economy, the United States is said to have a **mixed economy**, or a **modified private enterprise economy**. In a mixed economy people carry on their economic affairs freely, but are subject to some government intervention and regulation. This system most likely will undergo further change as the goals and objectives of the American people change.

Section 3 Assessment

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Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 46, explain how basic economic decisions are made under capitalism.
- Key Terms Define capitalism, free enterprise, voluntary exchange, private property rights, profit, profit motive, competition, consumer sovereignty, mixed economy, modified private enterprise economy.
- **3. List** the five major characteristics of a free enterprise system.
- 4. **Describe** the role of the entrepreneur.
- **5. Explain** the importance of the consumer in a free enterprise economy.

6. Identify the role of the government in a free enterprise economy.

Applying Economic Concepts

7. Voluntary Exchange Cite at least three examples of voluntary exchanges you made this week. How are you better off by having made the exchanges? Did the person with whom you exchanged gain too? How?

Critical Thinking

- 8. Understanding Cause and Effect Americans have varying economic goals. How have these often-competing goals modified our free enterprise economy?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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Profiles Economics

More Than Star Wars: George Lucas

"The crossroad in my career," filmmaker giant George Lucas recalls, "happened very early on. I was in an automobile accident. Before that I wasn't really a very good student. I wasn't really focused in my life. I came through an automobile accident that I should never have survived. And, in the process of that, I realized that there must be some purpose for me to be here and I'd better figure out what it is. . . . That really motivated me in a very direct way which sent me off, ultimately, searching for the things I loved and winding up in the film business."

George Lucas did more than just "wind up" in the film business: he conquered it. Lucas, as a writer, director, producer, and film business owner, has had a hand in more than half of the top 20 box office hits of all time. His credits include many of the world's best-known films, including the *Indiana Jones* series, and, his most famous work, the *Star Wars* series.

Lucas has won many awards, the most prestigious of which is the Irving G. Thalberg Award, given by the Academy of Motion Pictures. Lucas seems, indeed, to have found his purpose.

A Household Name: Walt Disney

The name Disney is known around the world. Yet as a young man, Walt Disney was a failed filmmaker operating out of a makeshift studio in a garage in Los Angeles. Disney had moved there from Kansas City, where he had helped create cartoon advertisements for showings in movie theaters. Dreaming of making full-scale movies, he headed to Los Angelesthen, as now, the film industry capital-to pursue his dream. For five years, he struggled to make ends meet. Then he released an animated film featuring a character that would soon become a household name: Mickey Mouse.

The year was 1928, and the film industry was about to explode: the ability to add sound to movies had just been developed; color movies would emerge in just a few years.

CONTENTS

Disney and his workers made full use of . . . new technologies.

Today, Walt Disney Company is a business giant. With income from four motion-picture units (Walt Disney Pictures, Touchstone Pictures, Hollywood Pictures, and Miramax Films), television (Disney owns ABC), videocassettes, recordings, theme parks, resorts, publications, and merchandise based on Disney characters, "Disney" is practically an industry unto itself. This huge media presence has brought Disney characters to millions of people around the world. Walt Disney combined economic success with a cultural impact that few, if any, others have achieved.



Examining the Profiles

- **1. Making Comparisons** What similarities are there in the early lives of Lucas and Disney?
- 2. Evaluating Information Both Lucas and Disney have influenced millions of people through their films. Do you view this as something positive or something negative? Explain your answer.

Section 1

Economic Systems (pages 33–39)

- Every society has an **economy** or **economic system**, a way of allocating goods and services to satisfy the WHAT, HOW, and FOR WHOM questions.
- In a **traditional economy**, the major economic decisions are made according to custom and habit. Life in these economies tends to be stable, predictable, and continuous.
- In a **command economy,** government makes the major economic decisions. Command economies can change direction drastically in a short time, focusing on whatever the government chooses to promote.
- Command economies tend to have little economic freedom, few consumer goods, and little uncertainty.
- A **market economy** features decentralized decision making with people and firms operating in their own self-interests.
- A market economy adjusts gradually to change, has a high degree of individual freedom and little government interference, is highly decentralized, and offers a wide variety of goods and services that help to satisfy consumers' wants and needs.

Section 2

Evaluating Economic Performance

(pages 41-44)

• The social and economic goals of U.S. society include economic freedom, economic efficiency, economic equity, economic security, full employment, price stability, and economic growth.



- When goals conflict, society evaluates the costs and benefits of each in order to promote one goal over another; many election issues reflect these conflicts and choices.
- People's goals are likely to change in the future, as our economy evolves.

Section 3

Capitalism and Economic Freedom (pages 46–51)

- **Capitalism** is a competitive economic system in which private citizens own the factors of production.
- The five characteristics of capitalism are economic freedom, voluntary exchange, private property rights, profit motive, and competition.
- The entrepreneur is the individual who organizes land, capital, and labor for production in hopes of earning a **profit:** the profit motive is the driving force in capitalism.
- In capitalism, firms are in business to make a profit. To do this they must offer products consumers want at competitive prices.
- **Consumer sovereignty** states that the consumer is the one who decides WHAT goods and services to produce.
- The national government plays the role of protector, provider and consumer, regulator, and promoter of economic goals.
- The United States has a **mixed economy**, or a **modified private enterprise economy**, in which its citizens carry on their economic affairs freely but are subject to some government intervention and regulation.

Chapter 2 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 2—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

On a separate sheet of paper, write the letter of the key term that best matches each statement below.

- a. capitalism
- f. inflation
- b. command economy
- g. private property rights
- c. consumer sovereignty h. profit motive
 - i. traditional economy
- d. economic system e. fixed income
 - j. voluntary exchange
- **1.** the idea that people rule the market
- **2.** a society's organized way of providing for its people's wants and needs
- **3.** the driving force that encourages people and organizations to try to improve their material well-being
- 4. a rise in the general level of prices
- **5.** a system in which the factors of production are owned by private citizens
- 6. the right and privilege to control one's own possessions
- **7.** an economic system in which ritual, habit, and custom dictate most economic and social behavior
- **8.** an economic system in which a central authority makes economic decisions
- **9.** the situation in which the money an individual receives does not increase even though prices go up
- **10.** the act of buyers and sellers freely conducting business in a market

Reviewing the Facts

Section 1 (pages 33–39)

- **1. Describe** the main strength and weakness of a traditional economy.
- **2. List** the five major weaknesses of the command economy.
- **3. Describe** how a market economy, a traditional economy, and a command economy adapt to change.

Section 2 (pages 41–44)

- 4. **Describe** the seven major economic goals which most Americans agree on.
- **5. Explain** how society resolves the conflict among goals which conflict.

Section 3 (pages 46–51)

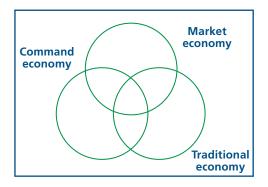
- 6. State how people and businesses benefit from economic freedom.
- **7. Explain** the importance of the entrepreneur in a free enterprise economy.
- 8. **Provide** examples of how the government acts as protector, provider and consumer of goods and services, regulator, and promoter of national goals.

Thinking Critically

- 1. **Drawing Conclusions** Some people believe the profit motive conflicts with the goals of economic security and equity. Do you agree or disagree? Why or why not?
- **2. Understanding Cause and Effect** How can the movement of people and the communication of ideas affect the type of economic system a society has?
- **3. Making Inferences** What incentive does owning private property give people?

Chapter 2 Assessment and Activities

4. Making Comparisons Reproduce the following diagram on a separate sheet of paper. Then, in the spaces indicated, identify several elements of command and tradition in the U.S. economy that make it a mixed, or modified private enterprise, economy.



Applying Economic Concepts

- **1. Tradition** Most people tip for service in restaurants, but not for service at clothing stores or gas stations. Explain how this illustrates economic behavior by tradition rather than by market or command.
- **2. Freedom and Equity** Explain the role you as a consumer must play in obtaining economic equity for yourself.
- **3. Voluntary Exchange** How does the principle of voluntary exchange operate in a market economy?

Math Practice

If the typical minimum-wage employee works 40 hours a week and takes two weeks off for vacation, how much will that person earn annually if the minimum wage is \$5.15/hour? How much extra will that person earn for every \$0.25 increase per hour in the wage?

Thinking Like an Economist

Not all societies have market economies. Some have command or traditional economies. Use the discussion

of incremental reasoning and cost-benefit analysis in Chapter 1 on pages 22 and 23 to explain why you would or would not like to live in a society with a different economic system.

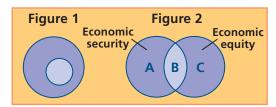
Technology Skill

Using the Internet Search for information on the Internet about the Russian economy. Use a search engine. Type in the word *Russia*. After typing in *Russia*, enter words like the following to focus your search: *goods and services, government controls, competition, economic freedom,* and *transition economy*.

As you analyze the information that you find, answer these questions: What progress has Russia achieved in its transition to a market economy? What problems remain? Write a one-page paper that describes your findings.

Building Skills

Making Comparisons Compare the figures below and then answer the questions that follow.



- 1. If the diagram in Figure 1 represents "needs" and "wants," how would you label the two diagrams in the figure? Explain your choice.
- 2. If the two circles in Figure 2 represent the goals of economic security and economic equity, where would you place a federal policy such as the minimum wage law—in area A, B, or C? Explain your choice.
- If you were to change economic security to economic efficiency in Figure 2, how would this change your placement of the minimum wage policy? Or, would it?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CHAPTER 2: ECONOMIC SYSTEMS AND DECISION MAKING 55

CHAPTER

Business Organizations

3

Economics & You

Do you work at a business? Belong to a church? Participate in a club? Chances are these institutions play a significant role in your life. To learn more about how business organizations and economic institutions operate, view the Chapter 4 video lesson:

Business Organizations



Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 3—Chapter Overviews* to preview chapter information.

CLICK HERE

CONTENTS

Running a business involves risks as well as expectations.

Forms of Business Organization

SECTION 1

Study Guide

Main Idea

Businesses may be organized as individual proprietorships, partnerships, or corporations.

Reading Strategy

Graphic Organizer As you read about business organizations, complete a graphic organizer similar to the one below to explain how the three types of business organizations differ from one another.

Proprietorships	
Partnerships	
Corporations	

Key Terms

sole proprietorship, proprietorship, unlimited liability, inventory, limited life, partnership, limited partnership,

Cover Story

Raw Feelings

Scott Melton thinks he got a

raw deal. Melton, who recently opened Sushi Nights on Main Street in Deep Ellum [Texas], filed for Chapter 11 bankruptcy in April for Sushi Deep Ellum Inc., the general partnership he formed to operate Deep Sushi.... Last June, Deep Sushi's lim-



Mounting bills are one of the risks of business.

ited partners, a group of 10 or so anesthesiologists and other human meat menders, gave Melton the boot. Not only that, they stiffed him, he says. "They left me holding the bag for \$57,000 worth of unpaid taxes . . . including utilities and vendor bills. . . .

—Dallas Observer Online, May 20–26, 1999

bankruptcy, corporation, charter, stock, stockholder, shareholder, dividend, bond, principal, interest, double taxation

Objectives

After studying this section, you will be able to:

- 1. **Describe** the characteristics of the sole proprietorship.
- 2. Understand the advantages and disadvantages of the partnership.
- 3. **Describe** the structure and features of the corporation.

Applying Economic Concepts

Unlimited Liability Some forms of business organization can leave you holding the bag—including all the bills—for the entire business. Read to see how personal liability is affected by the type of business owned.

here are three main forms of business organizations in the economy today—the sole proprietorship, the partnership like the one Scott Melton describes in the cover story, and the corporation. Each offers its owners significant advantages and disadvantages.

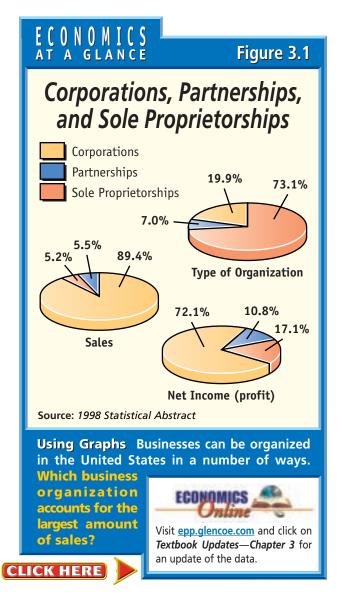
Sole Proprietorships

The most common form of business organization in the United States is the **sole proprietorship** or **proprietorship**—a business owned and run by one person. Although relatively the most numerous and profitable of all business organizations, proprietorships are the smallest in size. As **Figure 3.1** on page 58 shows, proprietorships earn almost one-fifth of the net income earned by all businesses, even though they make only a fraction of total sales.

Forming a Proprietorship

ONTENTS

The sole proprietorship is the easiest form of business to start because it involves almost no requirements except for occasional business



licenses and fees. Most proprietorships are ready for business as soon as they set up operations. You could start a proprietorship simply by putting up a lemonade stand in your front yard. Someone else might decide to mow lawns, do gardening, or open a restaurant. A proprietorship can be run on the Internet, out of a garage, or from an office in a professional building.

Advantages

The first advantage of a sole proprietorship is the ease of starting up. If someone has an idea or an opportunity to make a profit, he or she has only to decide to go into business and then do it.

58 UNIT 1 FUNDAMENTAL ECONOMIC CONCEPTS

The second advantage is the relative ease of management. Decisions may be made quickly, without having to consult a co-owner, boss, or "higher-up." This flexibility means that the owner can make an immediate decision if a problem comes up.

A third advantage is that the owner enjoys the profits of successful management without having to share them with other owners. The possibility of suffering a loss exists, but the lure of profits makes people willing to take risks.

Fourth, the proprietorship does not have to pay separate business income taxes because the business is not recognized as a separate legal entity. The owner still must pay individual income taxes on profits taken from the sole proprietorship, but the business itself is exempt from any tax on income.

Suppose, for example, Mr. Winters owns and operates a small hardware store in a local shopping center and a small auto repair business in his garage next to his home. Because neither business depends on the other, and because the only thing they have in common is ownership, the two businesses appear as separate and distinct economic activities. For tax purposes, however, everything is lumped together at the end of the year. When Mr. Winters files his personal income taxes, the profits from each business, along with wages and salaries earned from other sources, are combined. He does not pay taxes on each of the businesses separately.

A fifth advantage of the proprietorship is the psychological satisfaction. Some people want the personal satisfaction of being their own boss. Other people have a strong desire to see their name in print, have dreams of great wealth or community status, or want to make their mark in history.

A sixth advantage is the ease of getting out of business. In this case, all the proprietor has to do is pay any outstanding bills and then stop offering goods or services for sale.

Disadvantages

One main disadvantage of a proprietorship is that the owner has **unlimited liability.** This means that the owner is personally and fully responsible for all losses and debts of the business. If the business fails, the owner's personal possessions may be taken away to satisfy business debts.



Business Organizations



Sole Proprietorships The sole proprietorship is the most common form of business organization. What are some of the reasons for setting up a sole proprietorship?

To illustrate, consider the earlier case of Mr. Winters who owns and operates two businesses. If the hardware business should fail, Mr. Winters' personal wealth, which includes the automobile repair shop, may be legally taken away to pay off debts arising from the hardware store.

A second disadvantage of a proprietorship is the difficulty in raising financial capital. Generally, a great deal of money is needed to set up a business, and even more is required to support its expansion. A problem may arise because the personal financial resources available to most sole proprietors are limited. Banks and other lenders usually do not want to lend money to new or very small businesses. As a result, the proprietor often has to raise financial capital by tapping savings, using credit cards, or borrowing from family members.

A third disadvantage of a proprietorship is that of size and efficiency. A retail store, for example, may need to hire a minimum number of employees just to stay open during normal business hours. It may also need to carry a minimum **inventory**–a stock of finished goods and parts in reserve–to satisfy customers or to keep production flowing smoothly. Because of limited capital, the proprietor may not be able to hire enough personnel or stock enough inventory to operate the business efficiently. A fourth disadvantage is that the proprietor often has limited managerial experience. The owner-manager of a small company may be an inventor who is highly qualified as an engineer, but lacks the "business sense" or time to oversee the orderly growth of the company. This owner may have to hire others to do the types of work-sales, marketing, and accounting-that he or she cannot do.

A fifth disadvantage is the difficulty of attracting qualified employees. Because proprietorships tend to be small, employees often have to be skilled in several areas. In addition, many top high school and college graduates are more likely to be attracted to positions with larger, well-established firms than small ones. This is especially true when larger firms offer *fringe benefits*–employee benefits such as paid vacations, sick leave, retirement, and health or medical insurance–in addition to wages and salaries.

A sixth disadvantage of the sole proprietorship is **limited life.** This means that the firm legally ceases to exist when the owner dies, quits, or sells the business.

STANDARD &poor's infobyte

Business Inventories The Business Inventories report measures the monthly percentage changes in inventories from manufacturers, retailers, and wholesalers. The report is useful in predicting inventories within the gross domestic product (GDP), which can be volatile from guarter to guarter. Business inventories are reported monthly by the Commerce Department. Business inventories data, released in the third week of each month, show the monthly percentage change in inventories from manufacturers, retailers, and wholesalers. Because the majority of the data is old by the time it is released, it is usually not a key report to the markets. One portion of the report that does draw a bit of attention, though, is the inventory-to-sales ratio. This particular component is useful in forecasting, since increasing inventoryto-sales ratios signals a cutback in production.

Partnerships

A **partnership** is a business jointly owned by two or more persons. It shares many of the same strengths and weaknesses of a sole proprietorship. As shown in **Figure 3.1**, partnerships are the least numerous form of business organization, accounting for the smallest proportion of sales and net income.

Types of Partnerships

The most common form of partnership is a *general* partnership, one in which all partners are responsible for the management and financial obligations of the business. In a *limited* partnership, at least one partner is not active in the daily running of the business, although he or she may have contributed funds to finance the operation.

Forming a Partnership

Like a proprietorship, a partnership is relatively easy to start. Because more than one owner is involved, formal legal papers called articles of partnership are usually drawn up to specify arrangements between partners. Although not always required, these papers state ahead of time how profits (or losses) will be divided.

The articles of partnership may specify that the profits be divided equally or by any other arrangement suitable to the partners. They also may state the way future partners can be taken into the business and the way the property of the business will be distributed if the partnership ends. Individuals who join as partners must be very careful because they are financially responsible for personal as well as business debts of their partners (except for those debts specifically exempted in the partnership contract).

CYBERNOMICS SPOTLIGHT

Entrepreneurs of the New Economy

During the 1700s and 1800s, a series of innovations in agriculture and industry led to profound economic and social change throughout many regions of the world. Urban industrial economies emerged in these areas and eventually spread around the world. This transformation, which became known as the Industrial Revolution, began when power-driven machinery in factories replaced work done in homes, altering the way people had lived and worked for hundreds of years.

In the late twentieth century, the world underwent a technological revolution as significant as the Industrial Revolution. Computers and the Internet are at the heart of this transformation.

Dell Computer Few have done more to take advantage of the promise of the Internet than Michael Dell. Under his leadership Dell Computer is in the forefront of making the Web the foundation of an existing business. Many producers, like Dell, are bypassing regular channels of trade and reaching out to their customers directly. Dell Computer grew twice as fast as other personal computer manufacturers by allowing buyers to configure their own PCs online.

Another reason for Dell's success is velocity. According to Dell, business velocity is shrinking time and dis-



Michael Dell

tance between a company and its suppliers as well as its customers. "The reduction of time, the reduction of inventory, and the reduction of physical materials and assets can drive a tremendous improvement in business efficiency," notes Dell. "Customers' purchasing decisions become faster and they have direct access to information they need immediately. Customers can compare products around the world over the Internet. This has dramatic implications for companies that previously had based their strategies on having a physical location, and having customers go and buy their products."

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Advantages

Like the sole proprietorship, the first advantage of the partnership is its ease of establishment. Even the costs of the partnership articles, which normally involve attorney fees and a filing fee for the state, are minimal if they are spread over several partners.

Ease of management is the second advantage. Generally, each partner brings different areas of expertise to the business: one might have a talent for marketing, another for production, another for bookkeeping and finance, and yet another for shipping and distribution. While partners usually agree ahead of time to consult with each other before making major decisions, partners generally have a great deal of freedom to make lesser ones.

A third advantage is the lack of special taxes on a partnership. As in a proprietorship, the partners withdraw profits from the firm and then pay individual income taxes on them at the end of the year. Each partner has to submit a special schedule to the Internal Revenue Service detailing the profits from the partnership, but this is for informational purposes only and does not give a partnership any special legal status.

Fourth, partnerships can usually attract financial capital more easily than proprietorships. They are generally a little bigger and, if established, have a better chance at getting a bank loan. If money cannot be borrowed, the existing partners can always take in new partners who bring financial capital with them as part of their price for joining the business.

A fifth advantage of a partnership is the slightly larger size, which often makes for more efficient operations. In some areas, such as medi-

cine and law, a

Did You Know?

Internet Commerce As use of the Internet spreads throughout the world, the U.S. share of Internet commerce will fall. In 2003, the United States will account for about 50% of Internet-based commerce, compared with 75% in 1998.

An abundance of collectibles and other goods are available through online auctions.

Online Auctions The auction, a centuries-old tradition that links communities of buyers and sellers, is taking a new form on the Internet. One of the first to sell used goods online was the Gibson Guitar Company. The company offered older-model, used guitars for sale on the Web in 1996. Gibson's site was a huge success, in large part due to the celebrated reputation of its products.

The pioneer of person-to-person online trading is eBay. Launching its site in 1995, eBay at first offered only small collectibles such as Beanie Babies and Pez dispensers. Today, the company connects millions of buyers and sellers worldwide. It helps people buy and sell products in more than 1,000 categories, including antiques, books, collectibles, electronics, sports memorabilia, and toys.

Under the leadership of CEO Margaret Whitman, eBay helped establish negotiated pricing, a concept that influenced Web selling on items such as airplane tickets. The success of eBay has proven that customers will buy used merchandise online—a significant step for many businesses in accepting the idea of the online auction.

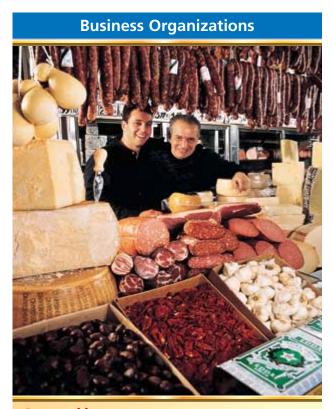
CHAPTER 3: BUSINESS ORGANIZATIONS 61

relatively small firm with three or four partners may be just the right size for the market. Other partnerships, such as accounting firms, may have hundreds of partners offering services throughout the United States.

A sixth advantage is that many partnerships find it easier to attract top talent into their organizations. Because most partnerships offer specialized services, top graduates seek out stable, well-paying firms to apply their recently acquired skills in law, accounting, and other fields.

Disadvantages

The main disadvantage of a general partnership is that each partner is fully responsible for the acts of all other partners. If one partner causes the firm to suffer a huge loss, each partner is fully and personally responsible for the loss. This is the same as



Partnerships Finding the right partner or partners is essential in a partnership. What is the difference between a general partnership and a limited partnership?

the unlimited liability feature of a sole proprietorship. It is more complicated, however, because more owners are involved. As a result, most people are extremely careful when they choose a business partner.

In the case of a **limited partnership**, the limited partners have limited liability. This means that the investor's responsibility for the debts of the business is limited by the size of his or her investment in the firm. If the business fails and large debts remain, the limited partner loses only his or her original investment, leaving the general partners to make up the rest.

Like the proprietorship, a partnership has limited life. When a partner dies or leaves, the partnership must be dissolved and reorganized. However, the new partnership may try to reach an agreement with the older partnership to keep its old name for public image purposes.

Another weakness is the potential for conflict between partners. Sometimes partners discover that they do not get along, and they either have to learn to work together or leave the business. If the partnership is large, it is fairly easy for these types of problems to develop, even though everyone thought they would get along well in the first place.

Partnerships offer entrepreneurs increased access to financial capital, but—as Scott Melton the former general partner of Deep Sushi found out—things do not always work out as planned. First, his business filed for **bankruptcy**, a court-granted permission to an individual or business to cease or delay debt payments. Then, because the limited partners had no liability beyond their initial investments, Scott was left with the rest of the bills. As a result, he also filed for bankruptcy.

Corporations

CONTENTS

As shown in **Figure 3.1**, corporations account for approximately one-fifth of the firms in the United States and about 90 percent of all sales. A **corporation** is a form of business organization recognized by law as a separate legal entity having all the rights of an individual. This status gives the corporation the right to buy and sell property, enter into legal contracts, and to sue and be sued.

Forming a Corporation

Unlike a sole proprietorship or partnership, a corporation is a very formal and legal arrangement. People who would like to *incorporate*, or form a corporation, must file for permission from the national government or the state where the business will have its headquarters. If approved, a **charter**–a government document that gives permission to create a corporation–is granted. The charter states the name of the company, address, purpose of business, and other features of the business.

The charter also specifies the number of shares of **stock**, or ownership certificates in the firm. These shares are sold to investors, called **stockholders** or **shareholders**. The money is then used to set up the corporation. If the corporation is profitable, it may eventually issue a **dividend**-a check representing a portion of the corporate earnings-to each stockholder.

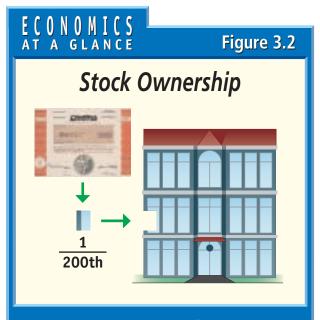
Corporate Structure

When an investor purchases stock, he or she becomes an owner with certain ownership rights. The extent of these rights depends on the type of stock purchased, common or preferred.

Common stock represents basic ownership of a corporation. The owner of common stock usually receives one vote for each share of stock. This vote is used to elect a board of directors whose duty is to direct the corporation's business by setting broad policies and goals. The board also hires a professional management team to run the business on a daily basis.

Preferred stock represents nonvoting ownership shares of the corporation. These stockholders receive dividends before common stockholders receive theirs. If the corporation goes out of business, and if some property and funds remain after other debts have been paid, preferred stockholders get their investment back before common stockholders. Because the stock is nonvoting, preferred stockholders do not have the right to elect members to the board of directors.

In theory, a stockholder who owns a majority of a corporation's common stock can elect board members and control the company. In some cases,



Making Comparisons If a corporation has a total of 200 shares of stock, and if you could somehow divide the firm into 200 equal parts, the owner of a single share of stock would own 1/200th of the corporation. A common stockholder, then, owns part of a company's plant and equipment and has a voice in how the business is managed. How does common stock differ from preferred stock?

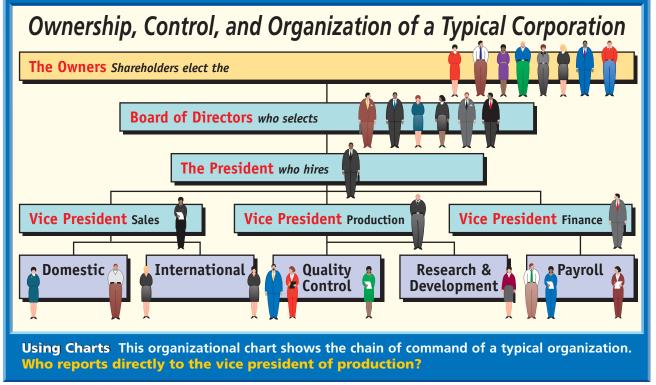
the common stockholder might even elect himself or herself, and other family members, to the board of directors.

In practice, this is not done very often because most corporations are so large and the number of shares held by the typical stockholder is so small. Most small stockholders either do not vote, or they turn their votes over to someone else. This is done with the use of a proxy, a ballot that gives a stockholder's representative the right to vote on corporate matters.

Finally, **Figure 3.3** presents an organizational chart which shows how the different parts of the organization relate to one another. The chart shows the basic components of the business–sales, production, finance, payroll, etc.–as well as the lines of authority so that everybody knows who they report to.

ECONOMICS AT A GLANCE

Figure 3.3



Advantages

The main advantage of a corporation is the ease of raising financial capital. If the corporation needs more capital, it can sell additional stock to investors. The revenue can then be used to finance or expand operations. A corporation may also borrow money by issuing bonds. A **bond** is a written promise to repay the amount borrowed at a later date. The amount borrowed is known as the **principal.** While the money is borrowed, the corporation pays **interest**, the price paid for the use of another's money.

A second advantage of a corporation is that the directors of the corporation can hire professional managers to run the firm. This means that the owners, or stockholders, can still own a portion of the corporation without having to know a great deal about the business itself.

A third advantage is that the corporation provides limited liability for its owners. This means that the corporation itself, not its owners, is fully responsible for its debts and obligations. To illustrate, suppose a corporation cannot pay all of its obligations and goes out of business. Because of limited liability, stockholder losses are limited to the money they invested in stock. Even if other debts remain, the stockholders are not responsible for them.

Because limited liability is so attractive, many firms incorporate just to take advantage of it. Suppose Mr. Winters, who owns the hardware store and the auto repair business, now decides to set up each business as a corporation. If the hardware business should fail, his personal wealth, which includes the automobile repair business, is safe. Mr. Winters may lose all the money invested in the hardware business, but that would be the extent of his loss.

Another advantage is unlimited life, meaning that the corporation continues to exist even when ownership changes. Because the corporation is recognized as a separate legal entity, the name of the company stays the same, and the corporation continues to do business.

The ease of transferring ownership is also a strength of the corporation. If a shareholder no



longer wants to be an owner, he or she simply sells the stock to someone else, who then becomes the new owner. As a result, it is much easier for the owner of a corporation to find a new buyer than it is for a sole proprietor or a partnership.

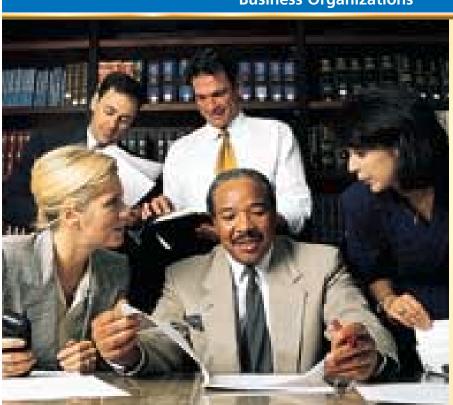
Disadvantages

One disadvantage of the corporate structure is the difficulty and expense of getting a charter. Depending on the state, attorney's fees and filing expenses can cost several thousand dollars. Because of this expense, many people prefer to set up proprietorships or partnerships.

A second disadvantage of the corporation is that the owners, or shareholders, have little say in how the business is run after they have voted for the board of directors. This is because the directors turn day-to-day operations over to a professional management team, resulting in the separation of ownership and management. This is different from the proprietorship and partnership, where ownership and management are one and the same.

A third disadvantage is the **double taxation** of corporate profits. Stockholders' dividends are taxed twice—once as corporate profit and again as personal income. This tax status is a consequence of the corporation's special status as a separate legal entity. This also means that the corporation is required to keep detailed records of sales and expenses so that it can compute and pay taxes on its profits.

Finally, corporations are subject to more government regulation than other forms of business. Corporations must register with the state in which they are chartered. If a corporation wants to sell its stock to the public, it must register with the federal Securities and Exchange Commission (SEC). It will also have to provide financial information concerning sales and profits on a regular basis to the general public. Even an attempt to take over another business may require federal government approval.



Business Organizations

ONTENTS

Corporations A corporation is an organization owned by many people but treated by law as though it were a person. As a corporation the company can raise money by selling shares of ownership in the business to hundreds or thousands of people. Owners of common stock elect a board of directors. The board of directors, in turn, hires managers to run the business. How do the holders of common stock differ from the holders of preferred stock?

Government and Business Regulation

The concept of competitive markets, free from government intervention, has always been a strong part of the U.S. economy. However, in the mid-nineteenth century, states tried to restrict the powers of corporations. By the 1890s, however, courts and legislatures, influenced by business interests and aware that giant corporations were becoming indispensable, had relaxed control over business. States that continued to restrict corporations found their major businesses moving to other states where the laws were more lenient.

Business Regulation

In the twentieth century, various consumer groups demanded regulation of giant corporations. In response, federal and state governments passed stronger regulations. States helped set insurance companies' rates, administered licensing exams, and generally protected consumer interests. Legislation regulated all kinds of corporations, but laws regulating banks, insurance companies, and companies providing such necessities as electricity, gas, telephone service, or transportation service, were especially rigorous. Recently, states have reduced regulations in order to encourage competition. In the next section, you will read about the ways businesses can grow and expand.

Business Development

State governments are very active in trying to attract new industry. Governors often travel throughout the country or even to foreign countries to draw new business to their states. Television advertising, billboards, brochures, and newspaper advertisements promote travel or business opportunities.

Beginning in the 1930s, state governments sold industrial development bonds to people or institutions and used the money to help finance industries that relocated or expanded within the state. The state paid off the bond within a specified time period from money that the industry paid back to the state in the form of taxes. Today a state may offer an incentive such as a tax credit, or a reduction in taxes, in return for the creation of new jobs or new business investment.

Section 1 Assessment

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 57, explain why partnerships are able to attract more capital than sole proprietorships.
- 2. Key Terms Define sole proprietorship, proprietorship, unlimited liability, inventory, limited life, partnership, limited liability, bankruptcy, corporation, charter, stock, stockholder, shareholder, dividend, bond, principal, interest, double taxation.
- **3. Identify** the characteristics and organization of the sole proprietorship.
- **4. Discuss** the advantages and disadvantages of the partnership.
- **5. Discuss** the structure and features of the corporation.

Applying Economic Concepts

6. Unlimited Liability Interview one or two business owners in your community and ask them about the formal structure of their business. Ask them how they feel about the issue of unlimited liability. Inquire whether the issue had any influence on the legal form of business they selected.

Critical Thinking

CONTENTS

7. Drawing Conclusions When a corporation wants to introduce a potentially profitable but risky product, it frequently sets up a separate company that has its own corporate structure. Why do you think the corporation does this?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2. Profiles Economics

A Pioneer in Corporate America: Kenneth I. Chenault

What does it take to succeed at one of America's largest and most prestigious corporations? Kenneth Chenault knows the answer. At the young age of 45, Chenault became president and chief operating officer (COO) of American Express, the sixty-fifth largest company in the country.

Chenault is the first African American to serve as president of a top-100 company. Some people have compared him to Jackie Robinson, who broke the color barrier in baseball in 1947. Coincidentally–and perhaps fittingly–Chenault became COO in 1997, the 50th anniversary year of Robinson's breakthrough.

STEPPING STONES

Remarkably, Kenneth Chenault did not start his career in business. Instead, he obtained an undergraduate degree in history, and then earned a law degree at Harvard. He had keen instincts for business, however, and worked for a management consulting firm before joining American Express in 1981.

CHALLENGES AND OPPORTUNITIES

At first Chenault was responsible for strategic planning at American Express. Soon, his intelligence and hard work propelled him up through the corporate ranks. Each promotion brought Chenault new challenges—and new opportunities.

His greatest opportunity is as president and COO. Chenault is responsible for integrating strategies across all of American Express's many business units. He has been in the forefront of company efforts to increase market share by expanding product offerings, globalizing the business, and opening American Express's card network to bank partners around the world. Chenault is also responsible for global advertising and brand management.

CONTENTS

How does Chenault view his tremendous responsibilities as the highest-ranking African American in corporate America?

"With American Express being a large, publicly held company, I would be scrutinized under any circumstances," Chenault said. "If you don't enhance shareholder value, it doesn't matter who you are, you will have a problem. . . . [I]f I do well, I would be very hopeful that it would encourage other companies to give people the opportunity to succeed."

Kenneth Chenault himself had the opportunity to succeed. And he has proven he knew how to take advantage of it.

Examining the Profile

- 1. Drawing Conclusions What personal qualities do you think Chenault has that helped make him a success?
- 2. For Further Research Learn about and report on Chenault's philanthropic contributions in New York City.

Business Growth and Expansion

SECTION 2

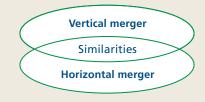
Study Guide

Main Idea

Businesses grow through merging with other companies and by investing in the machinery, tools, and equipment used to produce goods and services.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by comparing a vertical merger to a horizontal merger.



Key Terms

merger, income statement, net income, depreciation, cash flow, horizontal merger, vertical merger, conglomerate, multinational

Objectives

After studying this section, you will be able to:

- 1. **Explain** how businesses can reinvest their profits to grow and expand.
- 2. Recognize the reasons that cause firms to merge.
- 3. Identify two different types of mergers.

Applying Economic Concepts

Business Growth Businesses can grow by reinvesting their profits in themselves, or they can combine with another business. Read to find out what influences growth.

Cover Story

Kroger Bags Fred Meyer

Grocery store giant Kroger Co. agreed Monday to purchase rival Fred Meyer Co. in a \$12.8 billion deal that will enable Kroger to reclaim its status as the nation's largest supermarket company. . . . [Analysts say] the merger is a good deal



Supermarket companies are growing through mergers.

for both companies, one that should create the economies of scale necessary to remain competitive in the tough supermarket industry.

the tough supermarker industry. The merger also will enable Kroger to [stay] ahead of rival Albertson's, which otherwise would have eclipsed Kroger through its \$11.7 billion buyout of American Stores Co. in August. . . . Combined with Meyer, currently the fifth-largest grocery chain, Kroger will operate 2,200 supermarkets in 31 states, boasting \$43 billion in annual sales.

-CNNfn, October 19, 1998

business can grow in one of two ways. First, it can grow by reinvesting some of its profits. A business can also expand by engaging, much like Kroger did, in a **merger**-a combination of two or more businesses to form a single firm.

Growth Through Reinvestment

Most businesses use some of the revenue they receive from sales to invest in factories, machinery, and new technologies. We can use the **income statement**–a report showing a business's sales, expenses, and profits for a certain period–to illustrate the process. An income statement can reflect various periods of financial activity, such as three months or a year.

Estimating Cash Flows

CONTENTS

As illustrated in **Figure 3.4**, the business first records its total sales for the period. Next, it finds its **net income** by subtracting all of its expenses, including taxes, from its revenues. These expenses include the cost of any goods such as inventory,

wages and salaries, interest payments, and **depreciation**, a non-cash charge the firm takes for the general wear and tear on its capital goods.

Depreciation is called a *non-cash charge* because, unlike other expenses shown in the figure, the money is never paid to anyone else. For example, interest may be paid to a bank, wages may be paid to employees, but the money allocated to depreciation never goes anywhere—it simply stays in the business.

The concept of **cash flow**, the sum of net income and non-cash charges such as depreciation, is the *bottom line*, or real measure of profits for the business. This is because the cash flow represents the total amount of new funds the business generates from operations.

Reinvesting Cash Flows

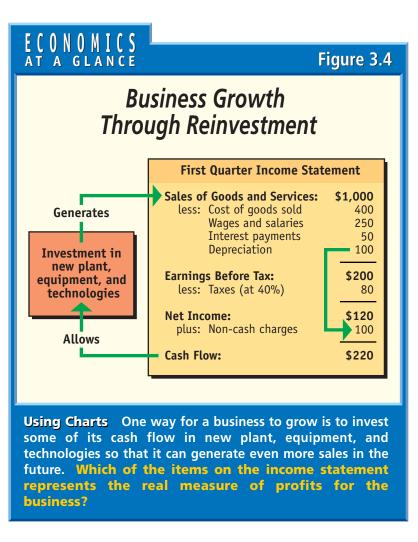
The business owners, either directly in the case of the proprietorship or partnership, or indirectly through the board of directors in the case of the corporation, decide how the cash flow will be allocated. Some of it can be

paid back to owners as their reward for risk taking, or the funds can be reinvested in the form of new plant, equipment, and technologies.

When cash flows are reinvested in the business, the firm can produce additional products. This generates additional sales and a larger cash flow during the next sales period. As long as the firm remains profitable, and as long as the reinvested cash flow is larger than the wear and tear on the equipment, the firm will grow.

Growth Through Mergers

When firms merge, one gives up its separate legal identity. For public recognition purposes, however, the name of the new company may reflect the identities of the merged companies. When Chase National Bank and Bank of Manhattan



merged, the new organization was called the Chase Manhattan Bank of New York–a name later changed to Chase Manhattan Corporation to reflect its geographically expanding business.

Mergers take place for a variety of reasons. A firm may seek a merger to grow faster, to become more efficient, to acquire or deliver a better product, to eliminate a rival, or to change its image.

Reasons for Merging

CONTENTS

Some managers find that they cannot grow as fast as they would like using the funds they generate internally. As a result, the firm may look for another firm with which to merge. Sometimes a merger makes sense, and other times it may not, but the desire to be bigger—if not the biggest—is one reason that mergers take place.

CHAPTER 3: BUSINESS ORGANIZATIONS 69



THE GLOBAL ECONOMY

When You Say Profits, Smile

Understanding the values of your customers is an important part of doing business. In this excerpt, an analyst promotes the importance of smiling to a group of Japanese businesspeople.

Some 30 somber businessmen in plain blue suits are biting down on chopsticks and feeling silly. "Now pull them out slowly," instructs their teacher, Yoshihiko Kadokawa, and suddenly the Japanese men seem to be grinning.... "There you go, you are now smiling," beams Kadokawa, 47. "Doesn't it feel great?"

Second nature to politicians and game show hosts, the toothy grin has long been a cultural nono in Japan, where some people still cover their mouths when they laugh in public and children are taught to limit their expressiveness, lest they upset the *wa*, or sense of group harmony. But Kadokawa, a former department store executive who noticed that his friendliest clerks racked up the biggest sales, wants to turn Japan into the land of happy

Efficiency is another reason for mergers. When two firms merge, they no longer need two presidents, two treasurers, and two personnel directors. The firm can have more retail outlets or manufacturing capabilities without significantly increasing management costs. In addition, the new firm may be able to get better discounts by making volume purchases, and make more effective use of its advertising. Sometimes the merging firms can achieve two objectives at once–such as dominant size and improved efficiency–as in the case of the Kroger-Meyer merger.

Some mergers are driven by the need to acquire new product lines. Recent telecommunications industry mergers, for example, were driven by the desire for some firms to provide better communications services. As a result, former telephone companies like AT&T bought cable TV firms so lips. He charges up to \$1,000 to host his two-tothree-hour "Let's Smile Operation" seminars, in which students exercise recalcitrant facial muscles and try to grasp the notion that smiles equal sales. "If you do not smile, you cannot make a profit," says Kadokawa, mindful that his country is mired in its worst economic crisis in decades. "If Japan smiled more, perhaps this nasty recession would end."

Look what it has done for Kadokawa, who has also written a popular book, *The Power of a Laughing Face*. His clients, however, mostly men, are having a harder time of it. "Won't I look stupid if I smile?" asks one. "Is it good for your health?" inquires another. Kadokawa assures them that showing their pearly whites is the key to prosperity. Perhaps his most helpful tip: Study Bill Clinton. "Look at the way he smiles," says Kadokawa. "That is real power."

—People Weekly, May 10, 1999

Critical Thinking

- **1. Analyzing Information** What is Kadokawa trying to teach the group?
- 2. Synthesizing Information How important is it for business people who work with people from other countries to understand their values?

that they could offer faster internet access and telephone service in a single package.

Sometimes firms merge to catch up with, or even eliminate, their rivals. Royal Caribbean Cruises acquired Celebrity Cruise Lines in 1997 and nearly doubled in size, becoming the second largest cruise line behind Carnival. When the office supply store Staples tried to acquire Office Depot in the same year, however, the government blocked the merger on the grounds that it would reduce competition in the industry.

Finally, a company may use a merger to *lose* its corporate identity. In 1997 ValuJet merged with AirWays to form AirTran Holdings Corporation. The new company flew the same planes and routes as the original company, but AirTran hoped the name change would help the public forget ValuJet's tragic 1996 Everglades crash that claimed 110 lives.



Types of Mergers

Economists generally recognize two types of mergers. The first is a **horizontal merger**, which takes place when two or more firms that produce the same kind of product join forces. The merger of the two banks, Chase National and the Bank of Manhattan, is one such example.

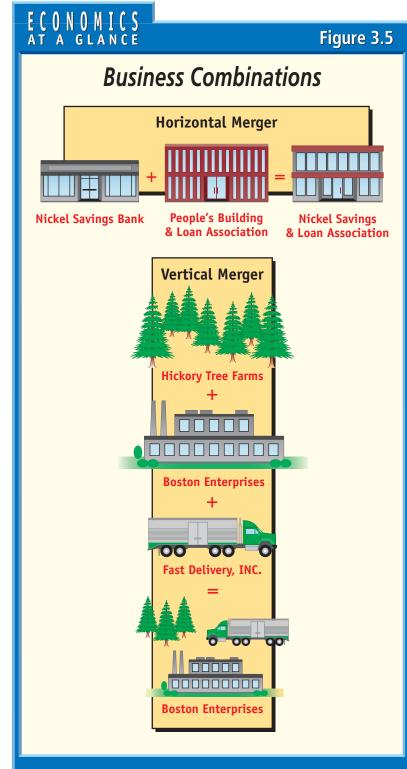
When firms involved in different steps of manufacturing or marketing join together, we have a **vertical merger.** An automaker merging with a tire company is one example of a vertical merger. Another is the U.S. Steel Corporation. At one time, it mined its own ore, shipped it across the Great Lakes, smelted it, and made steel into many different products. Vertical mergers take place when companies believe that it is important to protect themselves against the loss of suppliers.

Conglomerates

A corporation may become so large through mergers and acquisitions that it becomes a conglomerate. A **conglomerate** is a firm that has at least four businesses, each making unrelated products, none of which is responsible for a majority of its sales.

Diversification is one of the main reasons for conglomerate mergers. Some firms believe that if they do not "put all their eggs in one basket," their overall sales and profits will be protected. Isolated economic happenings, such as bad weather or the sudden change of consumer tastes, may affect some product lines at some point, but not all at one time.

During the 1970s and early 1980s, conglomerate mergers were popular in the United States. The cigarette and tobacco firm of R.J.



Using Charts Horizontal and vertical mergers are two kinds of mergers. What is the difference between these two kinds of mergers?

ECONOMICS At A GLANCE

Figure 3.6

Conglomerate Structure

Office Products ACCO office supplies Swingline staplers Day-Timers personal organizers



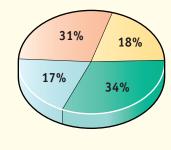
Sporting Equipment Titleist golf balls Foot-Joy golf shoes Bulls Eve putters

Hardware and Home Improvement Moen faucets Master Lock Waterloo toolboxes

Spirits and Wines

Sales by Category

31%
17%
34%
18%



Source: http://www.fortunebrands.com

Using Charts A conglomerate is a firm that has at least four businesses, each of which makes unrelated products and none of which is responsible for a majority of its sales. Fortune Brands is an American conglomerate with a wide range of products. About 25 percent of Fortune Brand's sales come from international sales. How does a conglomerate differ from a multinational? Reynolds became a leading conglomerate, at one time owning the largest containerized shipping firm in the country (Sea-Land), the nation's second largest fast-food chain (Kentucky Fried Chicken), the nation's largest fruit and vegetable processor (Del Monte), and the second largest producer of wine and distilled spirits (Heublein).

Since the late 1980s, the number of conglomerates in the United States has declined. In Asia, however, conglomerates remain strong. Samsung, Gold Star, and Daewoo are still very dominant in Korea, as are Mitsubishi, Panasonic, and Sony in Japan.

Multinationals

Other large corporations have become international in scope. A multinational is a corporation that has manufacturing or service operations in a number of different countries. It is, in effect, a citizen of several countries at one time. As such, a multinational is subject to the laws of, and is likely to pay taxes in, each country where it has operations. General Motors. Nabisco, British Petroleum, Roval Dutch Shell, Mitsubishi, and Sony are examples of global corporations that have attained worldwide economic importance.

Multinationals are important because they have the ability to move resources, goods, services, and financial capital across national borders. A multinational with its headquarters in Canada, for example, is likely to sell bonds in France. The proceeds may then be used to expand a plant in Mexico that makes products for sale in the United States. Multinationals may



also be conglomerates if they make a number of unrelated products, but when they conduct their operations in several different countries they are more likely to be called a multinational.

Multinationals are usually welcome because they transfer new technology and generate new jobs in areas where jobs are needed. Multinationals also produce tax revenues for the host country, which helps that nation's economy.

At times, multinationals have been known to abuse their power by paying low wages to workers, exporting scarce natural resources, or by adversely interfering with the development of local businesses. Some analysts point out that multinational corporations will be increasingly able to demand tax, regulatory, and wage concessions by threatening to move their operations to another country. Only highly educated people or those with skills will benefit as wages remain low. Other analysts predict uneven development. One region of the world will grow at the expense of another.

Most economists, however, welcome the lowcost production and quality that competition in the global economy brings. They also believe a greater use of research and new technology will raise the standard of living for all people. On balance, the advantages of multinationals far outweigh the disadvantages.

Careers

Buyer

Buyers purchase merchandise for resale to the public. They choose the suppliers, negotiate the price, and award contracts.

The Work

Duties include anticipating consumer demand, staying informed about new products, attending trade shows, and checking shipments. Buyers



assist in sales promotions and advertising campaigns, as well as checking on displays. Buyers must have the ability to plan, make decisions quickly, work under pressure, and identify products that will sell. Most buyers work in wholesale and retail trade companies, such as grocery or department stores, or in manufacturing. Many others work in government or in service industries.

Qualifications

Most buyers have completed a college degree with a business emphasis. Familiarity with the merchandise as well as with wholesaling and retailing practices is important.

Section 2 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 68, explain how mergers improve efficiency.
- 2. Key Terms Define merger, income statement, net income, depreciation, cash flow, horizontal merger, vertical merger, conglomerate, multinational.
- **3. Describe** how a firm can generate funds internally to grow and expand.
- 4. Identify five reasons why firms merge.
- 5. **Describe** the different ways a business can merge.

Applying Economic Concepts

6. Business Growth In a newspaper or magazine, find an article about a merger. What companies merged? What reasons, if any, were given for the merger? What statistics were provided? Write a one-page paper in which you answer these questions.

Critical Thinking

- 7. Making Comparisons What are the benefits and drawbacks of multinationals to their host countries?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

JUNE 28, 1999

Cosmetic companies like L'Oréal have found a profitable strategy: acquire smaller cosmetic companies and promote the culture from which they came. With this formula, and with the help of chief executive Lindsay Owen-Jones, L'Oréal's profits have dramatically increased.

The Beauty of **Global Branding**

It's a sunny afternoon outside Parkson's department store in Shanghai, and a marketing battle is raging for the attention of Chinese women. Tall, pouty models in beige skirts and sheer tops pass out flyers promoting Revlon's new spring colors. But their efforts [are being] drowned out by L'Oréal's eye-catching show for its Maybelline brand.

To a pulsating rhythm, two gangly models in shimmering lycra tops dance on a podium before a large backdrop depicting the New York City skyline. The music stops, and a makeup artist transforms a model's face while a Chinese saleswoman delivers the punch line. "This brand comes from America. It's very trendy," she shouts into the microphone. "If you want to be fashionable, just choose Maybelline."

Few of the women in the admiring crowd realize that the trendy "New York" Maybelline brand belongs to French cosmetics giant L'Oréal. In the battle for global beauty markets, \$12.4 billion L'Oréal has developed a winning formula: a growing portfolio of international brands that have transformed the French company into the U.N. of beauty. . . .

Newsclip

Its secret: conveying the allure of different cultures through its many products. Whether it's selling Italian elegance, New York street smarts, or French beauty through its brands, L'Oréal is reaching out to a vast range of people across incomes and cultures....

L'Oréal's work with Maybelline is a prime example. In 1996, L'Oréal acquired Maybelline for \$758 million and began a makeover of the brand. The key: figuratively stamping "urban American chic" all over Maybelline products to promote their American origins....

"That's a big challenge for this company to add brands, yet keep the differentiation," says Marlene Eskin, publisher of *Market View* research reports on the cosmetics industry.

-Reprinted from June 28, 1999 issue of *Business Week*, by special permission, copyright © 1999 by The McGraw-Hill Companies, Inc.



Department store in Shanghai, China

Examining the Newsclip

- **1. Analyzing Information** How has L'Oréal become more competitive in the global market?
- 2. Summarizing Information In your own words, explain why it is a challenge for a company to "add brands, yet keep differentiation"?

Other Organizations

SECTION 3

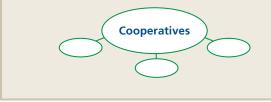
Study Guide

Main Idea

Producer and worker cooperatives are associations in which the members join in production and marketing to lower costs for their members' benefit.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by describing the different kinds of cooperatives.



Key Terms

nonprofit organization, cooperative, co-op, credit union, labor union, collective bargaining, professional association, chamber of commerce, Better Business Bureau, public utility

Objectives

After studying this section, you will be able to:

- 1. **Describe** nonprofit organizations.
- **2. Explain** the direct and indirect role of government in our economy.

Applying Economic Concepts

Nonprofit Organizations Do you belong to a church, club, or civic organization? Read to find out how these organizations fit into our economic system.

Cover Story

Baby-Sitting Co-Ops a Growing Trend

When Candace and Roger Kuebel of Larchmont, N.Y., flew to Grenada for a week's vacation, they did something most parents of young chil-



Baby-sitting duties

dren do only in their dreams. The Kuebels left their two-year-old daughter, Heather, in the care of two responsible adults—parents themselves . . . they also didn't pay a child care service any costly fees.

The couple's secret: They belong to a baby-sitting cooperative.

The idea behind the baby-sitting co-op is simple: Families swap baby-sitting duties without ever exchanging money. Co-ops usually rely on a coupon system: members with coupons have an incentive to use them, while those low on coupons need to sit.

-The New York Times On the Web, February 1, 1998

CONTENTS

ost businesses use scarce resources to produce goods and services in hopes of earning a profit for their owners. Other organizations, like the baby-sitting co-op described in the cover story, operate on a "not-for-profit" basis. A **nonprofit organization** operates in a businesslike way to promote the collective interests of its members rather than to seek financial gain for its owners.

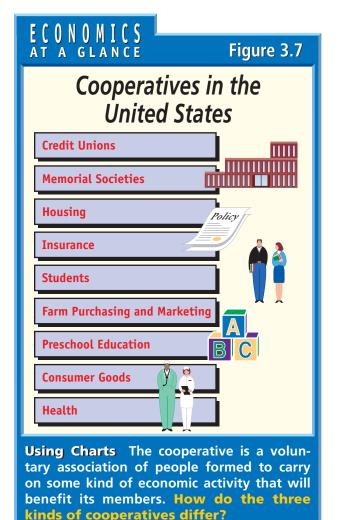
Community and Civic Organizations

Examples of nonprofit institutions include organizations such as schools, churches, hospitals, welfare groups, and adoption agencies. Most of these organizations are legally incorporated to take advantage of unlimited life and limited liability. They are similar to profit-seeking businesses, but do not issue stock, pay dividends, or pay income taxes.

These organizations often provide goods and services to their members while they pursue other rewards such as improving educational standards, seeing the sick become well, and helping those in need. Their activities often produce revenues in excess of expenses, but they use the surplus to further the work of their institutions. Nonprofit community and civic organizations use scarce factors of production to serve many needs. Their efforts are difficult to analyze economically, however, because the value of their products is not easy to measure. Even so, the large number of these organizations shows that they are an important part of our economic system.

Cooperatives

Another example of a nonprofit organization is the **cooperative**, or **co-op**. A cooperative is a voluntary association of people formed to carry on some kind of economic activity that will benefit its members. Cooperatives fall into three major classes: consumer, service, and producer.



Consumer Cooperatives

The consumer cooperative is a voluntary association that buys bulk amounts of goods such as food and clothing on behalf of its members. Members usually help keep the cost of the operation down by devoting several hours a week or month to the operation. If successful, the co-op is able to offer its members products at prices lower than those charged by regular businesses.

Service Cooperatives

A service cooperative provides services such as insurance, credit, and baby-sitting to its members, rather than goods. One example is a **credit union**, a financial organization that accepts deposits from, and makes loans to, employees of a particular company or government agency. In most cases, credit union members can borrow at better rates and more quickly than they could from for-profit banks or commercial loan companies.

Producer Cooperatives

Producers, like consumers, can also have co-ops. A producer cooperative helps members promote or sell their products. In the United States, most cooperatives of this kind are made up of farmers. The co-op helps the farmers sell their crops directly to central markets or to companies that use the members' products. Some co-ops, such as the Ocean Spray cranberry co-op, market their products directly to consumers.

Labor, Professional, and Business Organizations

Non-profit organizations are not just limited to co-ops and civic groups. Many other groups also organize this way to promote the interests of their members.

Labor Unions

CONTENTS

Another important economic institution is the **labor union**, an organization of workers formed to represent its members' interests in various

Cooperatives

Benefits A cooperative is an organization that is owned by and operated for the benefit of those using its services. Consumer cooperatives, and producer cooperatives perform different functions. What are the benefits of a consumer cooperative?



employment matters. The union participates in **collective bargaining** when it negotiates with management over issues such as pay, working hours, health care coverage, life insurance, vacations, and other job-related matters.

Unions pressure the government to pass laws that will benefit and protect their workers. The largest labor organization in the United States is the American Federation of Labor-Congress of Industrial Organizations (AFL-CIO), an association of unions whose members do all kinds of work. The American Postal Workers Union and the American Federation of Teachers, for example, are both AFL-CIO unions. Many other unions, such as the National Education Association for Teachers, are independent and represent workers in specific industries.

Professional Associations

Many workers belong to professional societies, trade associations, or academies. While these groups are similar to unions, they do not work in quite the same way. One such organization is a **professional association**–a group of people in a specialized occupation that works to improve the working conditions, skill levels, and public perceptions of the profession.

The American Medical Association (AMA) and the American Bar Association (ABA) are two examples of interest groups that include members of specific professions. Basically, these two groups influence the licensing and training of doctors and lawyers, and both groups are actively involved in political issues. Professional associations also represent bankers, teachers, college professors, police officers, and hundreds of other professions. While these associations are concerned primarily with the standards of their professions, they also seek to influence government policy on issues that are important to them.



Student Web Activity Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 3—Student Web Activities* for an activity on the Better Business Bureau.



What's in a Name? People often define themselves by the work they do. Many common English surnames are based on occupations. Examples are Smith, Cooper, Carpenter, Weaver, Baker, and Potter.

Business Associations

Businesses also organize to promote their collective interests. Most cities and towns have a **chamber of commerce** that promotes the welfare of its members and of the community. The typical chamber sponsors activities ranging from educational programs to neighborhood clean-up campaigns to lobbying for favorable business legislation.

Many business organizations represent specific kinds of businesses. These are called industry or trade associations. Trade associations are interested in shaping the government's policy on such economic issues as free enterprise, imports and tariffs, the minimum wage, new construction, and government contracts for construction and manufacturing. The Telecommunications Industry Association, for instance, represents manufacturers and suppliers of communications and information technology products on issues affecting its members.

Some business associations help protect the consumer. The **Better Business Bureau**, a non-profit organization sponsored by local businesses

CYBERNOMICS SPOTLIGHT

The Changing Workplace

In studying the workplace, some analysts feel that certain trends will continue. People will change jobs several times during their lifetimes. The compressed work schedule—working a shorter workweek with more hours per day will continue to make inroads. Analysts also believe that lifelong learning is a key to career success. New jobs require advanced skills, education, and training. Therefore, the need for continuing to learn and develop new skills is more important than ever before.

-Source: Computer Industry Almanac

to provide general information on companies, is one of these. It maintains records on consumer inquiries and complaints and sometimes offers various consumer education programs.

Government

Government is another nonprofit economic organization. Sometimes government plays a direct role in the economy, while at other times the role is indirect.

Direct Role of Government

Many government agencies produce and distribute goods and services to consumers, giving government a direct role in the economy. The role is "direct" because the government supplies a good or service that competes with private businesses.

One example is the Tennessee Valley Authority (TVA). The TVA supplies electric power for almost all of Tennessee and parts of Alabama, Georgia, Kentucky, Mississippi, North Carolina, and Virginia. This power competes directly with the power supplied by other, privately owned, power companies.

Another example is the Federal Deposit Insurance Corporation (FDIC), which insures deposits in our nation's banks. Because the insurance the FDIC supplies could be provided by privately owned insurance companies, the FDIC is also an example of the direct role of government.

Perhaps the best known of the government corporations is the U.S. Postal Service (USPS). Originally an executive department called the Post Office Department, the USPS became a government corporation in 1970.

Many of these federal agencies are organized as government-owned corporations. Like those of privately owned businesses, these corporations have a board of directors that hires a professional management team to oversee daily operations. These corporations charge for the products they produce, and the revenue goes back into the "business." If the corporation has losses, however, they are covered by funds supplied by Congress.

State and local governments provide police and fire protection, rescue services, schools, and court systems. At the same time, all levels of government

help develop and maintain roads, libraries, and parks. In these ways, government plays a direct part in the productive process.

Indirect Role of Government

The government plays an indirect role when it acts as an umpire to make sure the market economy operates smoothly and efficiently. One such case is the regulation of **public utilities**, investor- or municipalowned companies that offer important products to the public, such as water or electric service.

Because many public utilities have few competitors, people often want government supervision. For example, government established regulatory control over the cable television industry in 1993 because it felt that some operators were charging too much. Without competition, utilities and other companies having exclusive rights in certain areas may not offer services at reasonable rates.

The government also plays an indirect role when it grants money to people in the form of Social Security, veterans' benefits, financial aid to college students, and unemployment compensation. Such payments give the recipients of these funds a power **Promoting Interests**



Methods Labor unions, professional and business organizations, and interest groups draw from the financial resources and expertise of their members. *Who makes up the membership* of a professional association?

they otherwise might not have-the power to "vote" and to make their demands known in the market. This power influences the production of goods and services that, in turn, affects the allocation of scarce resources.

Section 3 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 75, describe the different types of cooperatives.
- 2. Key Terms Define nonprofit organization, cooperative, co-op, credit union, labor union, collective bargaining, professional association, chamber of commerce, Better Business Bureau, public utility.
- **3. Identify** the purpose of the different types of nonprofit organizations.
- Provide examples that illustrate the government's direct and indirect roles as an economic institution.

Applying Economic Concepts

 Nonprofit Organizations Name a nonprofit organization that you or one of your friends have joined. Research the history of the organization to find out how it began and its stated goals. State the purpose of the organization, and then compare its activities to profit-making organizations. If your organization collects more than it spends, what does it do with the extra money?

Critical Thinking

- 6. Classifying Information Make a list of 10 activities performed by your local government. Classify each as to its direct or indirect influences on the local economy.
- **7. Making Comparisons** Why do many people prefer to deal with credit unions rather than banks?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

STUDY AND WRITING

Skill

Taking Notes

Effective note taking involves more than just writing facts in short phrases. It involves breaking up the information into meaningful parts so that it can be understood and remembered.



Business in the United States can be organized in a number of ways.

Learning the Skill

To take good notes, follow these steps.

- When taking notes on material presented in class, write the key points, along with the important facts and figures, in a notebook.
- Write quickly and neatly, using abbreviations and phrases.
- Copy words, statements, or diagrams drawn on the chalkboard.
- Ask the teacher to repeat important points you have missed or do not understand.
- When studying textbook material, organize your notes into an outline. When outlining written material, first read the material to identify the main ideas. Next, identify the subheads. Place details supporting or explaining subheads under the appropriate head.
- For a research report, take notes on cards. Notecards should include the title, author, and the page number of sources.

Practicing the Skill

Suppose you are writing a research report on the topic, Business Organizations. First, identify main idea questions about this topic, such as "What are the different kinds of business organizations?" "How are they formed?" and "What are their advantages and disadvantages?" Then find material about each main-idea question.

Using this textbook as a source, read the material on "Forms of Business Organization," beginning on page 57. Then, review the material and prepare notes like those below.

Topic: Business Organizations <u>Main Idea: Different kinds</u> <u>1. The sole proprietorship is one kind of</u> <u>bus. org.</u> <u>2.</u> <u>3.</u> <u>Main Idea: Formation differs by kind of org.</u> <u>1.</u> <u>2.</u> <u>3.</u>

Application Activity

CONTENTS

Scan a local newspaper for a short editorial or an article about an event pertaining to business or the economy. Take notes by writing the main idea and supporting facts. Summarize the article using only your notes.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

80 UNIT 1 FUNDAMENTAL ECONOMIC CONCEPTS

Section 1

Forms of Business Organization

(pages 57-66)

- Sole proprietorships are small, easy-to-manage enterprises owned by one person. They are relatively numerous and profitable. Disadvantages include raising financial capital and attracting qualified employees.
- **Partnerships** are owned by two or more persons. Their slightly larger size makes it easier to attract financial capital and qualified workers. Disadvantages include the **unlimited liability** of each general partner for the acts



of the other partners, the **limited life** of the partnership, and the potential for conflict among partners.

- **Corporations** are owned by **shareholders** who vote to elect the board of directors. Shareholders have **limited liability** and are not liable for the actions or debts of the corporation. The relatively large size of the corporation allows for specialized functions and large-scale manufacturing within the firm.
- Disadvantages of corporations include the cost of obtaining charters, limited shareholder influence over corporate policies, and having to deal with some government regulations.
- The corporation is recognized as a separate legal entity and so must pay a separate corporate income tax not paid by proprietorships and partnerships.

Section 2

Business Growth and Expansion (pages 68–73)

• Businesses can grow by reinvesting their **cash flows** in plant, equipment, and new technology.

- Businesses can also expand through **mergers.** Most mergers take place because firms want to become bigger, more efficient, acquire a new product, catch up to or eliminate a competitor, or change its corporate identity.
- A horizontal merger takes place when two firms that produce similiar products come together. A vertical merger is one that involves two or more firms at different stages of manufacturing or marketing.
- A **conglomerate** is a large firm that has at least four different businesses, none of which is responsible for a majority of sales.
- A **multinational** can be an ordinary corporation or a conglomerate, but it has manufacturing or service

operations in several different countries. Multinationals introduce new technology, generate jobs, and produce tax revenues for the host countries.



Section 3

Other Organizations (pages 75–79)

- **Nonprofit organizations** function like a business, but on a not-for-profit basis to further a cause or for the welfare of their members.
- The **cooperative**, or **co-op**, is one of the major nonprofit organizations. The co-op can be organized to provide goods and services, or to help producers.
- **Professional associations** work to improve the working conditions, skill levels, and public perceptions of their profession.
- Businesses often form a **chamber of commerce** or a **Better Business Bureau** to promote their collective interests.
- Government plays a direct role in the economy when it provides goods and services directly to consumers; it plays an indirect role when it provides Social Security, veterans' benefits, unemployment compensation, and financial aid to college students, or when it regulates businesses.

Chapter 3 Assessment and Activities

CLICK HERE

Nonprofit Organizations



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 3—Self-Check Quizzes* to prepare for the chapter test.

Identifying Key Terms

On a separate sheet of paper, classify each of the numbered terms below into the following categories (some terms may apply to more than one category):

- Sole Proprietorships Corporations
- Partnerships
 - 1. bond
- 2. stock
- 3. cooperative
- **4.** dividend
- 5. unlimited liability
- 6. charter
- 7. labor union
- 8. professional association
- 9. limited partner
- **10.** credit union

Reviewing the Facts

Section 1 (pages 57–66)

- **1. Explain** the strengths of a sole proprietorship.
- 2. **Identify** the weaknesses of a partnership.
- **3. Explain** the structure and strengths of a corporation.

Section 2 (pages 68–73)

- **4. Explain** how the firm obtains, and then disposes of, its cash flow.
- **5. Describe** the difference between a horizontal and a vertical merger.

6. Explain why a corporation might choose to become a conglomerate.

Section 3 (pages 75–79)

- **7. Describe** the difference between a nonprofit institution and other forms of business organizations.
- 8. List three examples of cooperative associations.
- 9. Describe the purpose of a labor union.
- **10. Identify** three types of business or professional organizations.
- **11. Compare** the direct and the indirect roles of government.

Thinking Critically

1. Making Comparisons If you were planning to open your own business, such as a sportswear store or a lawn service, which form of business organization would you prefer-sole proprietorship, partnership, or corporation? Give reasons for your answer. To help you organize your response, begin by setting up a diagram like the one below.



- **2. Drawing Conclusions** Do you think mergers are beneficial for the U.S. economy? Defend your response.
- **3. Synthesizing Information** List the strengths and weaknesses of each type of business organization. Then share the list with the owner of a business in your community. Ask the owner which items on the list were the most influential in deciding how to organize his or her business. Write a report summarizing your findings.

Chapter 3 Assessment and Activities

Applying Economic Concepts

- **1. Economic Institutions** Cite a case in your community where a cooperative would fulfill a definite economic need. Explain why you think so, and then tell what kind of cooperative you would set up.
- The Role of Government Which do you think is more appropriate-the direct or indirect role of government? Defend your position.
- **3. Unlimited Liability** What is the difference between the unlimited liability of proprietorships and partnerships, and the limited liability of corporations?
- **4. Business Growth** What advantages might a multinational bring to a host nation?
- **5. Nonprofit Organizations** In what ways does a consumer cooperative differ from a service cooperative?

Math Practice

Study the table that follows. Then answer the questions.

Sole Proprietorships, 1985–1995				
	1985	1990	1995	
Business Receipts	540,045	730,606	807,364	
Business Deductions	461,273	589,250	638,127	
Net Income				

In millions of dollars

Source: Statistical Abstract of the United States

- **1.** What is the net income for each of the three years listed? How did you find the answer?
- **2.** In what year did sole proprietorships have the largest net income?

3. In what year did sole proprietorships have the largest net income as a percentage of business receipts? How did you find your answer?

Thinking Like an Economist

Identify two ways a firm's cash flow can be used. Explain why these uses are a trade-off and explain the opportunity costs of these choices in terms of the firm's future growth.

Technology Skill

Using the Internet With the increase in multinational corporations, many American citizens are interacting more and more with different cultures in other countries. Imagine that you and a partner have set up a multinational corporation that operates in the global economy. Select a country and use the Internet to research its culture in relation to business protocol. Use the information to create a report that lists procedures and key words your employees will need to know in order to properly conduct business in the country. Share your findings with the members of your class.

Building Skills

Taking Notes Research to find out more about an American entrepreneur and his or her role in shaping the U.S. economy. Before you do any research, compile a list of questions to serve as a guide and to narrow your topic. Consider such questions as:

1. Whom shall I research?

0

CONTENTS

- 2. What did he or she invent or promote?
- 3. How did he or she become a successful entrepreneur?
- 4. What effect did this entrepreneur have on the U.S. economy?

Use your notes to help you write a two-page typewritten sketch of the entrepreneur.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

ARE MEGAMERGERS HARMFUL?

Financial analysts called the 1990s "the decade of the megamerger," and it's easy to see why. The decade saw an unprecedented number of "megamergers"—multi-*billion* dollar deals that combine already huge firms into even larger business giants.

In the oil industry, two giants—Exxon and Mobil—agreed to merge. The value of the deal? A stunning \$80 billion—Wall Street's biggest deal ever. In the telecommunications industry, AT&T acquired cable giant Tele-Communications, Inc. for \$48 billion. Daimler-Benz AG, an auto industry giant, acquired Chrysler Corporation in a \$38 billion deal. In the financial industry, German bank Deutshe Bank took over Bankers Trust Corporation (a \$10 billion-plus deal), creating the world's largest bank.

These megamergers are only a few highlights of the trend toward megamergers in many industries—a trend that shows no signs of stopping. But what are the consequences of megamergers?

As you read the selections, ask yourself: Are megamergers beneficial or harmful?

CONTENTS

Megamergers Are a Threat

The fierce competitive pressures forcing megamergers, such as cost-cutting and the need to achieve scale in the global economy, are understandable. But the mergers raise a broad issue that goes beyond traditional concerns....

A Case Study:

PRO

The big problem with these gigantic mergers is the growing imbalance between public and private power in our society. . . . [N]owadays an era of Big Government is being superseded by the age of global goliaths.

Superlarge companies with interests and commitments stretching from Boston to Brisbane are unlikely to focus as intensely as smaller ones do on support for the local neighborhoods—the schools, the arts, the development of research activities, the training of potential workers. . . . Big companies have disproportionate clout on national legislation. Our scandalously porous laws for campaign contributions leave little doubt that megacompanies will exercise huge power over politicians when it comes to such issues as environmental standards, tax policy, Social Security, and health care. . . .

Megacompanies are almost beyond the law, too, because their deep pockets allow them to stymie prosecutors in ways smaller defendants cannot. Or, if they lose in court, they can pay large fines without much damage to their operations.

Corporate giants will also exert massive pressure on America's international behavior. Defense contractors such as Lockheed Martin, the result of a 1995 merger, have successfully pushed for NATO expansion and for related military sales to Poland, the Czech Republic, and others. Combined entities such as Boeing-McDonnell Douglas will tighten their already formidable grip on U.S. trade policy. Companies like Exxon-Mobil Corp. will deal with oil-producing countries

ENTERPRISE

almost as equals, conducting the most powerful private diplomacy since the British East India Company wielded near-sovereign clout throughout Asia...

The American economic system is at its best when public and private needs are balanced. The sheer magnitude of mergers is skewing the equilibrium.

-Jeffrey E. Garten, Dean of the Yale School of Management

CON Megamergers Are Harmless

We are witnessing an interesting collision between history and headlines. The headlines herald a new era of menacing corporate power. . . .

Big business seems to be getting ever bigger and more powerful.

Well, not exactly. The correct lesson from history is just the opposite: corporate power is on the wane.

If this seems counterintuitive, it's also common sense. Big business has been brought to heel politically. Everything from child labor to the environment has been regulated. Government is the final arbiter of business behavior, even if government is often arbitrary. This is an old story. Less recognized—or perhaps forgotten—is the fact that companies have also lost much market power to set prices and determine what customers buy. . . .

We can all identify the major forces that have corroded corporate market power: new technology (personal computers and cable TV); foreign competition (automobiles); the end of legal monopoly (telephones). But there is a less visible force that subverts overall corporate power, and that is economic growth itself. As society becomes richer, people buy a greater array of goods and services. When the typical market basket grows, producers of traditional goods become less important. . . .

Megamergers do not contradict this picture. One reason is that today's merger is often tomorrow's bust-up. Some mergers fail because they're driven more by personal ambition than true efficiency....

Some mergers may also be blatantly collusive. Corporate executives regularly complain about

lost "pricing power" (this may be a reason inflation has stayed tame). What better way to restore it than by buying a competitor? This is a genuine antitrust worry, but it's wrong to see bigness as automatically anti-competitive. Sometimes it's the other way around. One reason manufacturers have held down prices is that their superstore customers-the Wal-Marts and Home Depots-have the



purchasing power to insist on low prices.

In truth, the inefficient firm—however big—is its own worst enemy. Its inefficiency curbs its power. Its products become vulnerable to competition; its managers become vulnerable to takeover. . . .

-Robert J. Samuelson, Washington Post Writers Group

Analyzing the Issue

- What is Garten's basic objection to megamergers? How does he support his position?
- 2. What fundamental forces, in Samuelson's view, curb the power of giant corporations?
- Explain whose position you agree with, and why, or explain your reasons for a third position.



Microeconomics

CONTENTS

CHAPTER 4 Demand

CHAPTER 5 Supply

CHAPTER 6 Prices and Decision Making

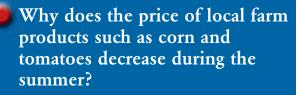
CHAPTER 7 Market Structures

Why It's Important

As you read this unit, learn how the study of economics helps answer the following questions:



Why are tickets for some sporting events sold out?



Buyers and sellers in the stock market exemplify the forces of supply and demand.



All and a second

CLICK HERE



CONTENTS

To learn more about microeconomics through information, activities, and links to other sites, visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u>

CHAPTER

J.C.B.

Demand

Economics & You

In **Chapter 4**, you will learn that demand is more than a desire to buy something: it is the ability and willingness to actually buy it. To learn more about how demand operates in the marketplace, view the Chapter 5 video lesson:

What is Demand?



and Practices Web site at <u>epp.glencoe.com</u> and click on **Chapter 4—Chapter Overviews** to preview chapter information. People demonstrate demand by their desire, ability, and willingness to pay.

CLICK HERE

What Is Demand?

SECTION 1

Study Guide

Main Idea

Demand is a willingness to buy a product at a particular price.

Reading Strategy

Graphic Organizer As you read this section, use a web diagram similar to the one below to note characteristics of demand.



Key Terms

demand, microeconomics, demand schedule, demand curve, Law of Demand, market demand curve, marginal utility, diminishing marginal utility

Objectives

After studying this section, you will be able to:

- 1. **Describe** and illustrate the concept of demand.
- 2. Explain how demand and utility are related.

Applying Economic Concepts

Demand You express your *demand* for a product when you are willing and able to purchase it. Read to find out how demand is measured.

Cover Story

Forecasting Demand

Keith Clinkscales realizes that he must pinpoint what his readers want if his new magazine, Blaze, is

to succeed. Blaze is a magazine for the hip hop movement-focusing on rap music and fashion. As reported in USA Today, Clinkscales watches the comings and goings of teenagers at [nearby] Norman Thomas High School. He studies



Successful magazines gauge demand.

their clothes, hairstyles, and, of course, their music. . . . Clinkscales, 34, notes, "It's amazing to watch them and observe the passion they have about their music and fashion and overall lifestyle. . . ."

The magazine targets readers ages 12 to 24. "Hip-

hop is the octane of the urban culture. We decided to create a publication that will focus on that culture," says Clinkscales.

-USA Today, December 30, 1998

CONTENTS

eople sometimes think of demand as the desire to have or to own a certain product. In this sense, anyone who would like to own a swimming pool could be said to "demand" one. In order for demand to be counted in the marketplace, however, desire is not enough; it must coincide with the ability and willingness to pay for it. Only those people with **demand**-the desire, ability, and willingness to buy a product-can compete with others who have similar demands.

Demand, like many other topics in Unit 2, is a microeconomic concept. Microeconomics is the area of economics that deals with behavior and decision making by small units, such as individuals and firms. Collectively, these concepts of microeconomics help explain how prices are determined and how individual economic decisions are made.

An Introduction to Demand

A knowledge of demand is essential to understand how a market economy works. As you read in Chapter 2, in a market economy people and firms act in their own best interests to

CHAPTER 4: DEMAND 89

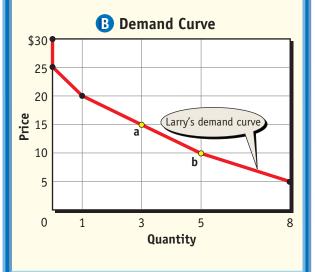
ECONOMICS AT A GLANCE

Figure 4.1

The Demand for Compact Digital Discs

A Demand Schedule

Price	Quantity Demanded
\$30	0
25	0
20	1
15	3
10	5
5	8



Using Graphs The demand schedule on the top lists the quantity demanded at each and every possible price. The demand curve (below) shows the same information in the form of a graph. The demand curve is downward sloping, which means that more will be demanded at lower prices, and fewer at higher prices. How does the demand curve illustrate the Law of Demand? answer the WHAT, HOW, and FOR WHOM questions. Knowledge of demand is also important for sound business planning. This is what an entrepreneur like Keith Clinkscales must do: Find out what type of magazine the hip-hop set is willing and able to buy in order for his project to become a success.

Demand Illustrated

To illustrate more fully how demand affects business planning, imagine you are opening a bicycle repair shop. Before you begin, you need to know where the demand is. You will want to set up your shop in a neighborhood with many bicycle riders and few repair shops.

After you identify an area in which to locate the shop, how do you measure the demand for your services? You may visit other shops and gauge the reactions of consumers to different prices. You may poll consumers about prices and determine demand from this data. You could study data compiled over past years, which would show consumer reactions to higher and lower prices.

All of these methods would give you a general idea as to the desire, willingness, and ability of people to pay. Gathering precise data on how consumers actually behave, however, is not easy. Even so, it is possible to treat the concept of demand in a more formal manner.

The Individual Demand Schedule

To see how an economist would analyze demand, look at **Panel A** of **Figure 4.1**. It shows the amount of a product that a consumer, whom we'll call Larry, would be willing and able to purchase over a range of *possible* prices that go from \$5 to \$30. The information in Panel A is known as a **demand schedule.** The demand schedule is a listing that shows the various quantities demanded of a particular product at all prices that might prevail in the market at a given time.

As you can see, Larry would not buy any CDs at a price of \$25 or \$30, but he would buy one if the price fell to \$20, and he would buy three if the price were \$15, and so on. Just like the rest of us, he is generally willing to buy more units of a product as the price gets lower.



The Individual Demand Curve

The demand schedule information in **Panel A** of **Figure 4.1** can also be shown graphically as the downward-sloping line in **Panel B.** All we have to do to is to transfer each of the price-quantity observations in the demand schedule to the graph, and then connect the points to form the curve. Economists call this the **demand curve**, a graph showing the quantity demanded at each and every price that might prevail in the market.

For example, point **a** in **Panel B** shows that three CDs are purchased at a price of \$15 each, while point **b** shows that five will be bought at a price of \$10. The demand schedule and the demand curve are similar in that they both show the same information—one just shows the data in the form of a table while the other is presented in the form of a graph.

The Law of Demand

The prices and quantities illustrated in Figure 4.1 point out an important feature of demand: For practically every product or service, higher prices are associated with a smaller amount demanded. Conversely, lower prices are associated with larger amounts demanded. This is known as the **Law of Demand**, which states that the quantity demanded of a good or service varies inversely with its price. In other words, when the price goes up, quantity demanded goes down. Likewise, when the price goes down, quantity demanded goes up.

Foundations for the Law of Demand

Stating something in the form of a "law" may seem like a strong statement for a social science like economics to make, but there are at least two reasons why economists prefer to do so. First, the inverse relationship between price and quantity demanded is something that we find in study after study, with people almost always stating that they would buy more of an item if its price goes down, and less if the price goes up. Price is an obstacle, which discourages consumers from buying. The higher this obstacle, the less of a product they will buy; the lower the obstacle, the more they will buy. Second, common sense and simple observation are consistent with the Law of Demand. This is the way people behave in normal everyday life. People ordinarily do buy more of a product at a low price than at a high price. All we have to do is to observe the increased traffic and purchases at the mall whenever there is a sale.

The Market Demand Curve

Figure 4.1 shows a particular *individual's* demand for a product. Sometimes, however, we are more concerned with the **market demand curve**, the demand curve that shows the quantities demanded by everyone who is interested in purchasing the product. Figure 4.2 shows the market demand curve **DD** for Larry and his friend Curly, the only two people whom (for simplicity) we assume to be willing and able to purchase CDs.

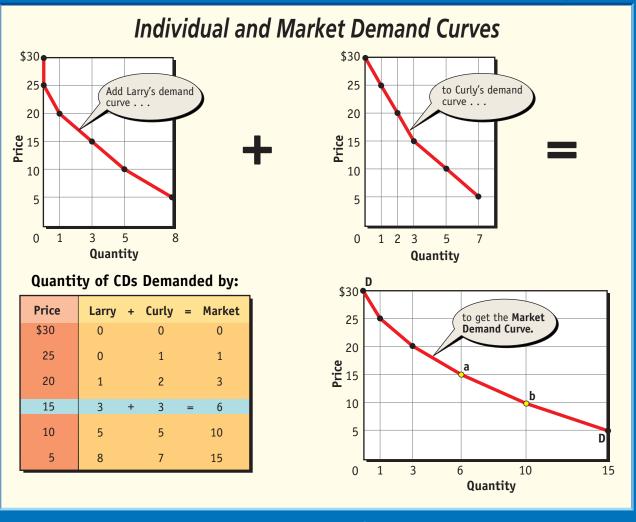


Demand and Prices If the prices of televisions drop, consumers will be better able and more willing to buy. *How does this situation reflect the Law of Demand*?



ECONOMICS AT A GLANCE

Figure 4.2





To get the market demand curve is a simple matter. All we need to do is add together the number of CDs that Larry and Curly would purchase at every possible price, and then plot them on a separate graph. To illustrate, point **a** in Figure 4.2 represents the three CDs that Larry would purchase at \$15, plus the three that Curly would buy at the same price. Likewise, point **b** represents the quantity of CDs that both would purchase at a price of \$10.

The market demand curve in **Figure 4.2** is very similar to the individual demand curve in **Figure 4.1**. Both show a range of possible prices that might prevail in the market at a given time. Both are downward sloping, showing that more will be bought at lower prices, and fewer at higher prices. The only real difference between the two is that the market demand curve shows the demand for *everyone* that is interested in buying the product. Thus, the market demand curve shows the demand for everyone in the market.



Demand and Marginal Utility

As you may recall from Chapter 1, economists use the term *utility* to describe the amount of usefulness or satisfaction that someone gets from the use of a product. **Marginal utility**the extra usefulness or satisfaction a person gets from acquiring or using one more unit of a product-is an important extension of this concept because it explains so much about demand.

The reason we buy something in the first place is because we feel the product is useful and that it will give us satisfaction. However, as we use more and more of a product, we encounter the principle of **diminishing marginal utility**, which states that the extra satisfaction we get from using additional quantities of the product begins to diminish.

Because of our diminishing satisfaction, we are not willing to pay as much for the second, third, fourth, and so on, as we did the first. This is why our demand curve is downward-sloping, and this is why Larry and Curly won't pay as much for the second CD as they did for the first. This is something that happens to all of us all the time. For example, when you buy a cola, why not buy two, or three, or even more? The answer is that you get the most satisfaction from the first purchase, and so you buy one. You get less satisfaction from the second purchase and even less from the next—so you simply are not willing to pay as much. When you reach the point where the marginal utility is less than the price, you stop buying.

STANDARD
&POOR'SINFOBYTE

Housing Starts The number of housing starts shows the demand for new homes. Economists forecast housing starts by using the current month's permits as a predictor. Building permits tend to move in tandem with starts on a month-to-month basis. They are also considered to be a leading indicator of the economy in general. Increases in building permits and starts are common during periods following a drop in mortgage rates.

Section 1 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 89, write a definition of demand in your own words.
- 2. Key Terms Define demand, microeconomics, demand schedule, demand curve, Law of Demand, market demand curve, marginal utility, diminishing marginal utility.
- **3. Describe** the relationship between the demand schedule and demand curve.
- Describe how the slope of the demand curve can be explained by the principle of diminishing marginal utility.

Applying Economic Concepts

5. **Demand** Record the names and approximate prices of the last two items you purchased. In general, would you have spent your money

differently if the price of each item was twice as high? Would you have spent your money differently if each of the items cost half as much as it did? Explain your responses.

- Critical Thinking

- 6. Using Graphs Create your own demand schedule for an item you currently purchase. Next, plot your demand schedule on a demand curve. Be sure to include correct labels.
- 7. Analyzing Information Analyze several magazine or newspaper ads to determine how the ads reflect or use the law of diminishing marginal utility.
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.



Wealth and Influence: Oprah Winfrey

Oprah Winfrey-known to millions simply as "Oprah"-is one of the richest and most powerful women in America. Most people know her as a talk show host, but she has other talents. As an actress, she received an Oscar nomination for Best Supporting Actress in The Color Purple. As a businessperson, she is the third woman in history (after Mary Pickford and Lucille Ball) to own a major television and film studio. With an annual income of about \$100 million, she is poised to become the country's first African American billionaire.

AGAINST ALL ODDS

Winfrey's beginnings were humble. She was born to unwed teenage parents in rural Mississippi and grew up in poverty. A troubled childhood followed. Eventually, the teenager went to live with her father, whose insistence on discipline and education soon turned her life around.

At the age of 17, Winfrey became a part-time radio newscaster at Nashville's WVOL. Two years later, while attending Tennessee State University, she was hired as a reporter and anchor at WTVF-TV.

In 1976 Winfrey moved to Baltimore, where she found her niche in television as co-host of a Baltimore morning show, *People Are Talking*. Winfrey's successful experience in Baltimore paved the way for her to become the undisputed "Queen of Talk" in Chicago.

In 1984 Winfrey took over the ailing *AM Chicago* talk show on WLS-TV. She turned it into a smash hit, driving the successful *Phil Donahue Show* to another city and another time slot. In 1986 *The Oprah Winfrey Show* became nationally syndicated. Within months, it was the third-highest-rated show in syndication. It became the numberone talk show, reaching up to ten million people daily in more than 190 cities in 13 countries.

Winfrey became the first African American woman to own her own television and film production complex, Harpo Productions, Inc. (Harpo is Oprah spelled backwards.)

MAKING A DIFFERENCE

Harpo

duction

Winfrey uses her wealth and influence to make a difference in the lives of others. Under her guidance, *The Oprah Winfrey Show* avoids sensationalism, focusing instead on issues of empowerment and self-improvement.

Winfrey is also a staunch children's rights activist. She proposed a bill to create a national database of convicted child abusers, which President Clinton signed into law in 1994.

Examining the Profile

- 1. Drawing Conclusions Why is Oprah Winfrey considered one of the most powerful women in America?
- For Further Research Make an annotated time line of Winfrey's career, highlighting her major achievements.



Factors Affecting Demand

SECTION 2

Study Guide

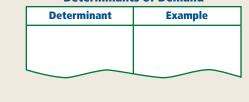
Main Idea

There are a number of factors that will cause demand to either increase or decrease.

Reading Strategy

Graphic Organizer As you read about the determinants of demand, list each on a table similar to the one below and provide an example of each.

Determinants of Demand



Key Terms

change in quantity demanded, income effect, substitution effect, change in demand, substitutes, complements

Objectives

After studying this section, you will be able to:

- 1. **Explain** what causes a change in quantity demanded.
- 2. **Describe** the factors that could cause a change in demand.

Applying Economic Concepts

Change in Demand Would you buy more clothes if your employer doubled your salary? Read to find out what causes a *change in demand*.

Cover Story

Battle Over Games

The meteoric rise of PlayStation, the games console that swept aside established rivals from Sega and Nintendo and reignited profits at Sony, is at an end. [Sony] is now

facing increased



Consumer preferences cause a change in demand.

competition from Sega's more powerful Dreamcast product, launched last year in Japan and scheduled to be introduced into the U.S. and Europe later this year. [Sony] said that global sales of the PlayStation console in the year to March 2000 would fall from last year's 21.6 million units to 17 million....

-Financial Times of London, April 28, 1999

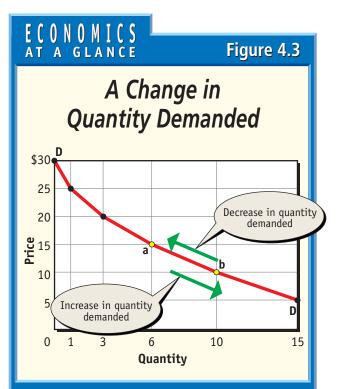
ONTENTS

The demand curve is a graphical representation of the quantities that people are willing to purchase at all possible prices that might prevail in the market. Occasionally, however, something happens to change people's willingness and ability to buy, as exemplified in the cover story. These changes are usually of two types: a change in the quantity demanded, and a change in demand.

Change in the Quantity Demanded

Point **a** on the demand curve in **Figure 4.3** shows that six CDs are demanded when the price is \$15. When the price falls to \$10, however, 10 CDs are demanded. This movement from point **a** to point **b** shows a **change in quantity demanded**-a movement along the demand curve that shows a change in the quantity of the product purchased in response to a change in price.

We already know that the principle of diminishing marginal utility provides an intuitive explanation of why the demand curve is downward sloping. As we will see below, the income and substitution effects can also add to our understanding of demand.



Using Graphs A change in price causes a change in quantity demanded. When the price goes down, the quantity demanded increases. When the price goes up, the quantity demanded goes down. Both changes appear as a movement along the demand curve. Why do price and quantity demanded move in opposite directions?

The Income Effect

When prices drop, consumers pay less for the product and, as a result, have some extra real income to spend. At a price of \$15 per CD, Larry and Curly spent \$90 to buy six CDs. If the price drops to \$10, they would spend only \$60 on the same quantity-leaving them \$30 "richer" because of the drop in price. They may even spend some of their savings on more CDs. As a result, part of the increase from 6 to 10 units purchased is due to consumers feeling richer.

Of course, the opposite would have happened if the price had gone up. Larry and Curly would have felt a bit poorer and would have bought fewer. This illustrates the **income effect**, the change in quantity demanded because of a change in price that alters consumers' real income.

The Substitution Effect

A lower price also means that CDs will be relatively less expensive than other goods and services such as concerts and movies. As a result, consumers will have a tendency to replace a more costly item– say, going to a concert–with a less costly one– CDs. The **substitution effect** is the change in quantity demanded because of the change in the *relative* price of the product. Together, the income and substitution effects explain why consumers increase consumption of CDs from 6 to 10 when the price drops from \$15 to \$10.

Note that whenever a change in price causes a change in quantity demanded, the change appears graphically as a movement *along* the demand curve. The change in quantity demanded, as illustrated in **Figure 4.3**, can be either an increase or a decrease—but in either case the demand curve itself does not shift.

Change in Demand

Sometimes something happens to cause the demand curve itself to shift. This is known as a **change in demand** because people are now willing to buy *different* amounts of the product at the same prices. As a result, the entire demand curve shifts—to the right to show an increase in demand or to the left to show a decrease in demand for the product. Therefore, a change in demand results in an entirely new curve.

A change in demand is illustrated in the schedule and graph in **Figure 4.4.** Note that there is a new column in the demand schedule showing that people are willing to buy more at each and every price. At a price of \$15, for example, consumers are now willing to buy 10 CDs instead of 6, moving from point **a** to point **a'**. At \$10, they are willing to buy 15 CDs instead of 10, and so on. When this information is transferred to the graph, the demand curve appears to have shifted to the right to show an increase in demand.

The demand curve can change for several reasons. When this happens, a new schedule or curve must be constructed to reflect the new demand at all possible prices. Demand can change because of changes in income, tastes, the price of related goods, expectations, and the number of consumers.





Consumer Income

Changes in consumer income can cause a change in demand. When your income goes up, you can afford to buy more goods and services. As incomes rise, consumers are able to buy more products at each and every price. When this happens, the demand curve shifts to the right. Suppose, for example, that Larry and Curly get a raise, which allows them to buy more CDs. Instead of Larry and Curly each buying 3 for a total of 6, they can now each buy 5–for a total of 10. If we find out how many CDs would be purchased at every possible price in the market, and if we plot the information as a demand curve as in **Figure 4.4**, then it appears as if the curve has shifted to the right.

Exactly the opposite could happen if there was a decrease in income. If Larry and Curly's raise turned out to be temporary, then the loss in income would cause them to buy less of the good at each and every price. The demand curve then shifts to the left, showing a decrease in demand.

Consumer Tastes

Consumers do not always want the same things. Advertising, news reports, fashion trends, the introduction of new products, and even changes in the season can affect consumer tastes. For example, when a product is successfully advertised in the media or on the Internet, its popularity increases and people tend to buy more of it. If consumers want more of an item, they would buy more of it at each and every price. As a result, the demand curve shifts to the right.

On the other hand, if people get tired of a product, they will buy less at each and every price, causing the demand curve to shift to the left. This is exactly what happened to the demand for Sony's PlayStation. The introduction of a new and superior product took customers away from Sony, causing the number of units demanded at each and every possible price to decline.

In addition, the development of new products can have an effect on consumer tastes. Years ago, many students carried slide rules to school to work out math and science problems. Now they use pocket calculators instead of slide rules. The demand for calculators has increased while the demand for slide rules has decreased.

Sometimes tastes and preferences change by themselves over time. In recent years, consumer concerns about health have greatly increased the demand for healthier, less-fattening foods. Demand for smaller, more fuel-efficient cars has grown, driven by a change in tastes.

Careers

Statistician

Who will win the next election? How many consumers will buy a certain new product? People who try to answer such questions are statisticians.



The Work

Statisticians work for the

government and in industry gathering and interpreting data about the economy, health trends, and so on. They also work for industries and public opinion research organizations. One way statisticians gather information is by taking samples. They cannot question all the adults in this country about their activities, but they can get a fairly accurate picture by asking a sample of a few hundred people.

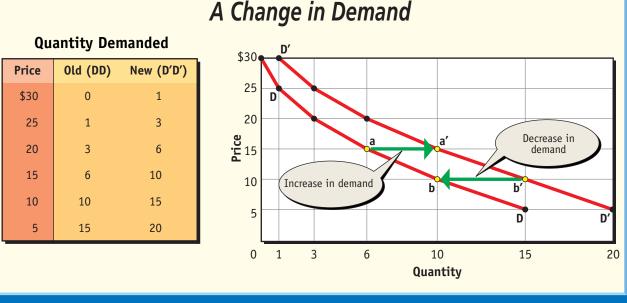
Qualifications

CONTENTS

To become a statistician, you should have an aptitude for and an interest in mathematics and computers. Although some jobs are available for people with a bachelor's degree, many jobs require a graduate degree in mathematics or statistics. If you think you want a career in statistics, you should take business, math, and science courses.

ECONOMICS At a glance

Figure 4.4



Using Graphs A change in demand means that a different quantity is demanded at each and every possible price in the market. An increase in demand appears as a shift of the demand curve to the right. A decrease appears as a shift to the left. **What might cause a change in demand for CDs?**

Substitutes

A change in the price of related products can cause a change in demand. Some products are known as **substitutes** because they can be used in place of other products. For example, butter and margarine are substitutes. A rise in the price of butter causes an increase in the demand for margarine. Likewise, a rise in the price of margarine would cause the demand for butter to increase. In general, the demand for a product tends to increase if the price of its substitute goes up. The demand for a product tends to decrease if the price of its substitute goes down.

Complements

Other related goods are known as **complements**, because the use of one increases the use of the other. Personal computers and software are two complementary goods. When the price of computers decreases, consumers buy more computers *and* more software. In the same way, if the price of computers spirals upward, consumers would buy fewer computers and less software. Thus, an increase in the price of one good usually leads to a decrease in the demand for its complement.

Companies have made use of this relationship for a number of years. For example, the Gillette Corporation makes razor handles and razor blades. To generate a high demand for their products, the price of razor handles is kept low. The profit earned on each razor handle is small, but the razor blades are sold at very profitable prices. As a result, the company is able to use the profits on the blades to more than offset the losses on the handles. Given the complementary nature of the two products, it is unlikely that demand for Gillette blades would have been as high if the handles had been more expensive.

Change in Expectations

"Expectations" refers to the way people think about the future. For example, suppose that a leading maker of audio products announces a technological



breakthrough that would allow more music to be recorded on a smaller disk at a lower cost than before. Even if the new product might not be available for another year, some consumers might decide to buy fewer musical CDs today simply because they want to wait for a better product. Purchasing less at each and every price would cause demand to decline, which is illustrated by a shift of the demand curve to the left.

Of course, expectations can also have a very different effect on market demand. For example, if the weather service forecasts a bad year for crops, people might stock up on some foods before they actually become scarce. The willingness to buy more at each and every price because of expected future shortages would cause demand to increase, which is demonstrated by a shift of the demand curve to the right.

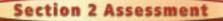
Number of Consumers

A change in income, tastes, and prices of related products affects *individual* demand schedules and curves—and hence the *market* demand curve, which is the sum of all individual demand curves. It follows, therefore, that an increase in the number of consumers can cause the market demand curve to shift.



Shelling Out In colonial times, money was in short supply. Because of this, people often used shelled corn to pay for goods and services. Although the practice of using shelled corn as money has not survived, the slang expression *shell out*—meaning *pay for*—has.

To illustrate, suppose Moe, one of Larry's and Curly's old friends, now decides to purchase compact discs. If we add the number of CDs that Moe would demand at each and every possible price to the others shown in **Figure 4.2**, the market demand curve **DD** would shift to the right. This would not affect the other individual demand curves, of course, but, as we shall see later in Chapter 6, it will affect the prices that everyone will pay for CDs. If Larry or Moe should leave the market the total number of CDs purchased at each and every price would decrease. This shifts the market demand curve to the left. The result is a decline in market demand whenever anyone leaves the market.



CONTENTS

Checking for Understanding

- **1. Main Idea** How does the income effect explain the change in quantity demanded that takes place when the price goes down?
- Key Terms Define change in quantity demanded, income effect, substitution effect, change in demand, substitutes, complements.
- 3. Describe the difference between a change in quantity demanded and a change in demand.
- 4. Explain how a change in price affects the demand for a product's substitute(s).

Applying Economic Concepts

5. Change in Demand Name a product that you recently purchased because it was on sale.

Identify one substitute and one complement for that product. What happened to your demand for the substitute good when the item you bought went on sale? What happened to your demand for the complementary good when that item went on sale?

Critical Thinking

6. Understanding Cause and Effect What happens to the price and the quantity of goods and services sold when a store runs a sale? How do these factors relate to the downward-sloping curve?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

DECEMBER 14, 1998

McDonald's opened its first restaurant in Des Plaines, Illinois, in 1955. In 1967 McDonald's opened its first restaurants in cities in other countries. Today, the company operates nearly 25,000 McDonald's restaurants in 115 countries on six continents. Multinational companies, like McDonald's, are huge companies that carry out their activities on a global scale, selling their products worldwide. Read to find out how McDonald's must adapt its menu to local tastes.

Holding the Fries "At the Border"

Your stomach starts growling and you want a quick fix, so you head to the nearest Gold Arches for a Big Mac and . . . rice?

Rice is what you'll probably end up with these days if your local McDonald's is in Indonesia. With the collapse of the Indonesian currency, the rupiah, in 1998, potatoes, the only ingredient McDonald's imports to the island nation, have quintupled in price. That means rice is turning with an increasing frequency as an alternative to the french fry. In September 1998 McDonald's introduced a rice and eggs dish, and its value meals now consist of just chicken and a drink-but no potatoes. It's not hard to fathom why fries are an

100 UNIT 2 MICROECONOMICS

-Newsclip

endangered menu item says Jack Greenberg, CEO of McDonald's: "No one can afford them."

The company has long tailored menus at its 24,000 worldwide restaurants to local tastes, though not out of economic distress. In other Asian markets weakened currencies have made it cheaper to build new outlets: 2,000 are anticipated [by the year 2002]. But Indonesia's situation is so disastrous, says Greenberg, that McDonald's will close 30 of its 100 stores there.



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Examining the Newsclip

- **1. Understanding Cause and Effect** Why did McDonald's change its menu in Indonesia?
- Synthesizing Information Did McDonald's introduce rice to its Indonesian menu in response to a change in consumer tastes? Explain your reasoning.
- 3. Making Predictions What will happen if the change in the menu increases demand? Explain your answer.

Elasticity of Demand

SECTION 3

Study Guide

Main Idea

Consumers react differently to price changes depending on whether the good is a necessity or a luxury.

Reading Strategy

Graphic Organizer As you read about price elasticity, complete a web like the one below to illustrate what effect a change in price has on products that are elastic, inelastic, or unit elastic.



Key Terms

elasticity, demand elasticity, elastic, inelastic, unit elastic

Objectives

After studying this section, you will be able to:

- 1. Explain why elasticity is a measure of responsiveness.
- 2. Analyze the elasticity of demand for a product.
- Understand the factors that determine demand elasticity.

Applying Economic Concepts

Elasticity of Demand What are you willing to pay to see a popular movie? Read to find out about the *elasticity of demand* for a product and what factors influence your willingness and ability to pay for a product.

Cover Story

Setting Prices

It is always a difficult problem knowing how best to price a product.... When the product is one in a new and rapidly evolving industry,



Demand helps determine price.

evolving industry, like the microcomputer industry in the 1980s, the decision is doubly difficult. Was it best to charge a high price and sell a smaller number of disks or charge a lower price and aim for volume? One software producer decided to [test] the market for its new accounting program at different prices. The firm, Noumenon Corporation, raised prices in increments of \$20 all the way up to \$210. They found that total revenue was maximized at a price of \$90. As a result of this experiment, they decided to advertise and market the Intuit Accounting program at \$89.95, much lower than the prices of competing software programs.

 ause-and-effect relationships are important in the study of economics. For example, we often ask, "if one thing happens, how will it affect something else?" The software manufacturer in the cover story used a cause-and-effect relationship to set the price for its product.

An important cause-and-effect relationship in economics is **elasticity**, a measure of responsiveness that tells us how a dependent variable such as quantity responds to a change in an independent variable such as price. Elasticity is also a very general concept. It can be applied to income, the quantity of a product supplied by a firm, or to demand.

Demand Elasticity

CONTENTS

In the case of demand, you will consider whether a given change in price will cause a relatively *larger*, a relatively *smaller*, or a *proportional* change in quantity demanded. Consumers are sensitive to prices and that is why the Noumenon Corporation conducted so many experiments to find the best price for its accounting software. An understanding of **demand elasticity**—the extent to which a change in price causes a change in the

CHAPTER 4: DEMAND 101



THE GLOBAL ECONOMY

Trading Gold for Salt

What determines how much demand there will be for a good or service? The scarcity of the good or service plays an important role.

If you could choose between a pile of salt and a pile of gold, you would probably choose the gold. After all, you know that you can always buy a container of salt for about forty-five cents at the local supermarket. But what if you could not easily get salt?

Throughout history, salt has been very difficult to obtain in many parts of the world. Salt was used in food as a preservative and for flavor. People feared a lack of salt as we fear a shortage of fuel oil today.

quantity demanded-will help analyze these issues. The demand for most products is such that consumers do care about changes in prices-and the concept of elasticity tells us just how sensitive consumers are to these changes.

Elastic Demand

Economists say that demand is **elastic** when a given change in price causes a relatively larger change in quantity demanded. To illustrate, look at how price and quantity demanded change between points **a** and **b** on the demand curve in **Panel A** of **Figure 4.5**.

As we move from point \mathbf{a} to point \mathbf{b} , we see that price declines by one-third, or from \$3 to \$2. At the same time, the quantity demanded doubles from two to four units. Because the percentage change in quantity demanded was relatively larger than the percentage change in price, demand between those two points is elastic.

This type of elasticity is typical of the demand for products like green beans, corn, tomatoes, or other fresh garden vegetables. Because prices are lower in the summer, consumers increase the Long ago, the Akan people of West Africa could not mine salt and always needed to trade for it. Gold, however, was much easier to come by. The people who lived in the desert of North Africa could easily mine salt, but not gold. These mutual differences led to the establishment of long-distance trade routes that connected very different cultures. Trade centers, such as Djenne and Timbuktu on the Niger River, flourished, as a demand for goods was satisfied.

-Adapted from Smithsonian In Your Classroom

Critical Thinking

- **1. Analyzing Information** How did the Akan people meet their demand for salt?
- 2. Drawing Conclusions Suppose the Akan found a method to produce all the salt they needed. What changes in trade do you think might occur? Explain your reasoning.

amount they purchase. When prices are considerably higher in the winter, however, consumers normally buy fewer fresh vegetables and use canned products instead.

Inelastic Demand

For other products, demand may be largely **inelastic**, which means that a given change in price causes a relatively smaller change in the quantity demanded. We can see the case of inelastic demand in **Panel B** of **Figure 4.5**. In this case, the one-third drop in price from point **a'** to **b'** only causes quantity demanded to increase by 25 percent, or from two to two and one-half units.

This is typical of the demand elasticity for a product like table salt. A lower or higher price for table salt does not bring about much change in the quantity purchased. If the price was cut in half, the quantity demanded would not increase by much because people can consume only so much salt. Or, if the price doubled, we would expect consumers to demand about the same amount because the portion of a person's budget that is spent on salt is so small.



Unit Elastic Demand

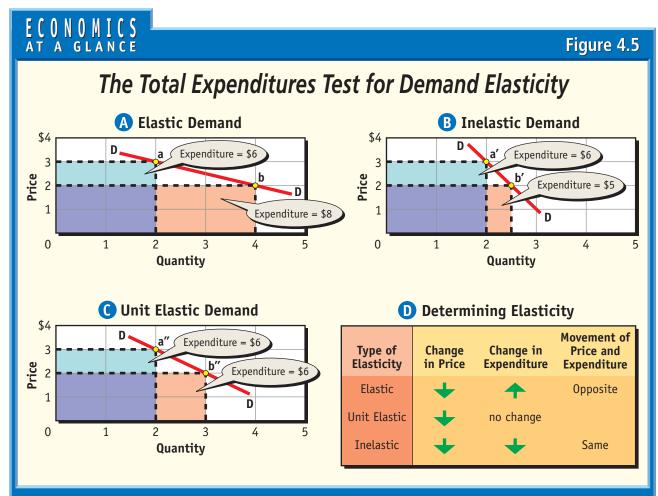
Sometimes demand for a product or service falls midway between elastic and inelastic. When this happens, demand is **unit elastic**, meaning that a given change in price causes a proportional change in quantity demanded. In other words, when demand is unit elastic, the percent change in quantity roughly equals the percent change in price. For example, a five percent drop in price would cause a five percent increase in quantity demanded. Unit elastic demand is illustrated in **Panel C** of **Figure 4.5**.

The Total Expenditures Test

To estimate elasticity, it is useful to look at the impact of a price change on total expenditures, or the amount that consumers spend on a product at a particular price. This is sometimes called the total expenditures test.

Determining Total Expenditures

Total expenditures are found by multiplying the price of a product by the quantity demanded for any point along the demand curve. To illustrate, the total



Using Graphs The key to determining elasticity is to examine how expenditures change when the price changes. If they move in opposite directions, then demand is elastic. If they move in the same direction, then demand is inelastic. If there is no change in expenditures, then demand is unit elastic. Why is an understanding of elasticity important for business?



expenditure under point **a** in **Panel A** of **Figure 4.5** is \$6, which is determined by multiplying two units times the price of \$3. Likewise, the total expenditure under point **b** in **Panel A** is \$8, or \$2 times four units. By observing the change in total expenditures when the price changes, we can test for elasticity.

Three Results

The relationship between changing prices and total expenditures is summarized in Figure 4.5. For each of the demand curves, the impact on total expenditures for a decrease in price from \$3 to \$2 is shown. In each case, the change in expenditures depends on the elasticity of the demand curve.

The demand curve in **Panel A** is elastic. When the price drops by \$1 per unit, the increase in the quantity demanded is large enough to raise total expenditures from \$6 to \$8. The relationship between the change in price and total expenditures for the elastic demand curve is described as "inverse." In other words, when the price goes down, total expenditures go up.

The demand curve in **Panel B** is inelastic. In this case, when the price drops by \$1, the increase in the quantity demanded is so small that total expenditures fall below \$6. For inelastic demand, total expenditures decline when the price declines. Finally, the demand curve in **Panel C** is unit elastic. This time, total expenditures remain unchanged when the price decreases from \$3 to \$2.

The relationship between the change in price and the change in total expenditures is shown in **Panel D** of **Figure 4.5.** As you can see, if the change in price and expenditures move in opposite directions, demand is elastic. If they move in the same direction, demand is inelastic. If there is no change in expenditure, demand is unit elastic.

CYBERNOMICS SPOTLIGHT

Revolution in E-Commerce

Innovations in shopping are nothing new. The growth of the department store at the turn of the century answered the needs of the growing number of urban consumers. Meanwhile, generations of Americans, especially those in remote farming communities, depended upon catalog shopping through Montgomery Ward and Sears & Roebuck to get the latest in fashion, housewares, appliances, and even home-building kits. The shopping centers of the midtwentieth century were replaced by gigantic shopping malls. In the 1990s, new technologies provided convenience and ease of use for customers. Home shopping—catalog, TV, and Internet—has grown into a multibillion dollar business. Today, entrepreneurs such as Jeff Bezos of Amazon.com Inc. are transforming our shopping habits.

Birth of an Internet Company Just as Sears and Montgomery Ward reached customers through their catalogs, today's entrepreneurs do the same online. Few, however, have been as successful as Jeff Bezos with Amazon. In 1994, Bezos decided to stake a claim on the unknown frontier of Internet retail. He quit his job on Wall Street and moved to Seattle. He rented a garage and borrowed money to start a business where people could make their book purchases over the Internet. Amazon debuted on the World Wide Web in July 1995.



Jeff Bezos, founder of Amazon.com

Unique Appeal to Customers What are the reasons for Amazon's success? An important factor is that Amazon provides services that regular stores don't. People who search for a book at the Amazon site often find a description accompanied by excerpts from reviews—not only from print sources but from customers. Authors, too, are invited to comment on their own works. And Amazon asks customers which kinds of books they like. When books in the same category or by



Finally, and even though all the price changes discussed above were decreases, the results would be the same if prices had gone up instead of down. If the price rises from \$2 to \$3 in **Panel A**, spending falls from \$8 to \$6. Prices and expenditures still move in opposite directions, as shown in the table.

Elasticity and Profits

All of this discussion about elasticity may seem technical and somewhat unnecessary, but knowledge of demand elasticity is extremely important to businesses. Suppose, for example, that you are in business and that you want to do something that will raise your profits. Of course you could try to cut costs, or you could even try to advertise in order to increase the number of units sold. You might, however, be tempted to raise the price of your product in order to increase total revenue from sales. This might actually work in the case of table salt, or even medical services, because the demand for both products is generally inelastic. But, what if you sell a product that has an elastic demand? If you raise the price of your product, your total revenues—which is the same thing as consumer expenditures—will go *down* instead of up. This outcome is exactly the opposite of what you intend!

This is exactly why the Noumenon Corporation in the cover story experimented with so many different prices when they introduced their accounting software program. By discovering the elastic nature of demand for their new product, they were able to increase their total revenues by charging a relatively low price rather than a much higher one. This example illustrates that demand elas-

ticity is more important than most people realize.

Did You Know?

Internet Shopping According to research analysts, two billion orders were placed over the Internet in 1999, generating \$95 billion in revenue. Researchers estimate e-commerce revenue will top \$1.1 trillion globally by 2002 (up from \$15 billion in 1997).

the same author appear, the company sends E-mail inviting people to buy them.

Growth and Development Bezos has even bigger plans for the future. He wants Amazon to serve as the gateway for more products. Among its innovations, Amazon added auctions in March 1999. The company retooled its warehouses to offer more varied selection and faster service. Bezos believes Amazon is successful because it values its customers. "The Internet is this big, huge hurricane," Bezos notes. "The only constant in that storm is the customers." Today Amazon serves more than 4.5 million customers in 160 countries. Although buying books over the Internet accounts for 3 percent of books sold, Amazon claims 85 percent of online book sales. In June 1998, the company began selling music selections. Within four months, Amazon became the leading online music retailer, with sales of \$14.4 million. As use of the Web grows, so too does the future of Amazon.



\$200,000,000

\$0

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1996

15.7 million

1997

67 million

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1999

1.4 billion

1998

540 million

Estimating the Elasticity of Demand

Products

Determinants of elasticity Yes (elastic) No (inelastic)	Fresh tomatoes, corn, or green beans	Table salt	Gasoline from a particular station	Gasoline in general	Services of medical doctors	Insulin	Butter
Can purchase be delayed?	yes	no	yes	no	no	no	yes
Are adequate substitutes available?	yes	no	yes	no	no	no	yes
Does purchase use a large portion of income?	no	no	yes	yes	yes	no	no
Type of elasticity	Elastic	Inelastic	Elastic	Inelastic	Inelastic	Inelastic	Elastic

Using Tables The elasticity of demand can usually be estimated by examining the answers to three key questions. All three answers do not have to be the same in order to determine elasticity, and in some cases the answer to a single question is so important that it alone might dominate the answers to the other two. If you applied the three questions to a luxury product, what would be the elasticity of demand for that product?

Determinants of Demand Elasticity

What makes the demand for a specific good elastic or inelastic? To find out, we can ask three questions about the product. The answers will give us a reasonably good idea as to the product's demand elasticity.

Can the Purchase Be Delayed?

A consumer's need for a product is sometimes urgent and cannot be put off. Whenever this happens, demand tends to be inelastic, meaning that the quantity of the product demanded is not especially sensitive to changes in price.

For example, persons with diabetes need insulin to control the disorder. An increase in its price is not likely to make diabetes sufferers delay buying and using the product. Likewise, the demand for tobacco also tends to be inelastic because the product is addictive. As a result, a sharp increase in price will lower the quantity purchased by consumers, but not by very much. The change in quantity demanded is also likely to be relatively small for these products when their prices go down instead of up.

If the product were corn, tomatoes, or gasoline from a particular station, however, people might react differently to price changes. If the prices of these products increase, consumers could delay buying any of these items without suffering any great inconvenience. Being able to delay or postpone the purchase of a product, then, is a characteristic of elastic demand.

Figure 4.6 summarizes some of these observations. Note that if the answer is yes to the question "Can the purchase be delayed?" then the demand for the product is likely to be elastic. If the answer is no, then demand is likely to be inelastic.



Are Adequate Substitutes Available?

If adequate substitutes are available, consumers can switch back and forth between a product and its substitute to take advantage of the best price. If the price of beef and butter goes up, buyers can switch to chicken and margarine. With enough substitutes, even small changes in the price of a product will cause people to switch, making the demand for the product elastic. The fewer substitutes available for a product, the more inelastic the demand.

Sometimes the consumer only needs to have a single adequate substitute in order to make the demand for the product elastic. Historically, for example, there were few adequate substitutes for a letter sent through the post office. As technology has progressed, FAX machines allow messages to be transmitted over phone lines, and, perhaps most significantly, the personal computer has helped make electronic mail (E-mail) popular. As a result, it is extremely difficult for the U.S. Postal Service to increase its total revenues by significantly raising the price of a first-class letter.

Also, note that the availability of substitutes also depends on the extent of the market. For example, the demand for gasoline from a particular station tends to be elastic because the consumer can buy

gas at another station. If we ask about the demand for gasoline in general, however, demand is much more inelastic because there are few adequate substitutes for gasoline.

Does the Purchase Use a Large Portion of Income?

The third determinant is the amount of income required to make the purchase. Whenever the answer to the question "Does the purchase use a large portion of income?" is yes, then demand tends to be elastic. Demand tends to be inelastic whenever the answer to this question is no.

Finally, you may have noticed that for any given product, the answer is not necessarily yes or no. For example, some products such as salt or insulin may be easy to classify, but we have to use our judgment on others. For example, the demand for medical services tends to be inelastic even though these services require a large portion of income. As far as most people are concerned, the lack of adequate substitutes and the reluctance to put off seeing a doctor when they are sick are more important than the relatively large portion of income that medical services consume.

Section 3 Assessment **Checking for Understanding Applying Economic Concepts** 1. Main Idea What luxuries do you think would 6. Elasticity of Demand Why are airlines reluchave a higher price elasticity than others? tant to offer reduced round-trip airfares dur-Give three examples and explain why you ing holidays such as Christmas, Easter, and think they would have an exceptionally high Thanksgiving? Refer to the three determielasticity. nants of demand elasticity in your answer. 2. Key Terms Define elasticity, demand elasticity, elastic, inelastic, unit elastic. Critical Thinking 3. **Describe** the three determinants of demand 7. Understanding Cause and Effect A hamelasticity. burger stand raised the price of its hamburgers from \$2.00 to \$2.50. As a result, its sales 4. Explain why the demand for insulin is of hamburgers fell from 200 per day to 180 inelastic. per day. Was the demand for its hamburgers elastic or inelastic? How can you tell? 5. Explain why an item that has many close substitutes tends to have an elastic demand. Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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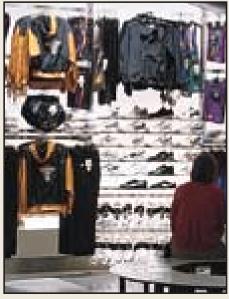
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CRITICAL THINKING

Skill

Understanding Cause and Effect

Understanding cause and effect involves considering *why* an event occurred. A *cause* is the action or situation that produces an event. What happens as a result of a cause is an *effect*.



One of the key factors that determines demand is people's tastes.

Learning the Skill

To identify cause-and-effect relationships, follow these steps:

- Identify two or more events or developments.
- Decide whether one event caused the other. Look for clue words such as *because*, *led to*, *brought about*, *produced*, *as a result of, so that, since*, and *therefore*.
- Look for logical relationships between events, such as "She overslept, and then she missed her bus."
- Identify the outcomes of events. Remember that some effects have more than one cause, and some causes lead to more than one effect. Also, an effect can become the cause of yet another effect.

Practicing the Skill

Analyze the statements below. Then, on a separate piece of paper, list the causes and effects found in each statement.

- **1.** Historically, prices have shown their greatest fluctuations in times of war.
- **2.** The government also is confronted with scarcity, and must make choices.
- **3.** Because of scarcity, people, businesses, and the government must all make trade-offs in choosing the products they want the most.
- 4. When a choice is made, an opportunity cost is paid.
- **5.** It is impossible for us to produce all the products we would like to have because the factors of production exist in limited quantities.
- **6.** Because consumers don't always want the same things, items that are popular now may not sell in the future.
- 7. If income increases, people can afford to buy more products.
- **8.** If the price of butter goes up, more people would buy margarine instead.

Application Activity

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In your local newspaper, read an article describing a current event. Determine at least one cause and one effect of that event. Show the cause-andeffect relationship in a diagram like the one here.





Section 1

What Is Demand? (pages 89–93)

- **Microeconomics** is the area of economic study that deals with individual units in an economy, such as households, business firms, labor unions, and workers.
- You express **demand** for a product when you are both willing and able to purchase it.
- Demand can be summarized in a **demand schedule**, which shows the various quantities that would be purchased at all possible prices that might prevail in the market.
- Demand can also be shown graphically as a downward sloping **demand curve.**
- The **Law of Demand** refers to the inverse relationship between price and quantity demanded.
- Individual demand curves for a particular product can be added up to get the **market demand curve**.
- Marginal utility is the amount of satisfaction an individual receives from consuming one additional unit of a particular good or service.



• Diminishing marginal utility means that with each succeeding unit, satisfaction decreases.

Section 2

Factors Affecting Demand (pages 95–99)

- Demand can change in two ways-a change in quantity demanded or a change in demand.
- A **change in quantity demanded** means people buy a different quantity of a product if that product's price changes, appearing as a movement *along* the demand curve.
- A **change in demand** means that people have changed their minds about the amount they would

buy at each and every price. It is represented as a *shift* of the demand curve to the right or left.

- A change in consumer incomes, tastes and expectations, and the price of related goods causes a change in demand.
- Related goods include substitutes and complements. A **substitute** is a product that is interchangeable in use with another product. A **complement** is a product that is used in conjunction with another product.
- The market demand curve changes whenever consumers enter or leave the market, or whenever an individual's demand curve changes.



Section 3

CONTENTS

Elasticity of Demand (pages 101–107)

- **Elasticity** is a general measure of responsiveness that relates changes of a dependent variable such as quantity to changes in an independent variable such as price.
- **Demand elasticity** relates changes in the quantity demanded to changes in price.
- If a change in price causes a relatively *larger* change in the quantity demanded, demand is **elastic**.
- If a change in price causes a relatively *smaller* change in the quantity demanded, demand is **inelastic**.
- When demand is elastic, it stretches as price changes. Inelastic demand means that price changes have little impact on quantity demanded.
- Demand is **unit elastic** if a change in price causes a *proportional* change in quantity demanded.
- The total expenditures test can be used to estimate demand elasticity.
- Demand elasticity is influenced by the ability to postpone a purchase, by the substitutes available, and by the proportion of income required for the purchase.

Chapter 4 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 4—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

On a separate sheet of paper, match the letter of the term best described by each statement below.

- a. demand schedule
- b. demand
- c. microeconomics
- d. change in demand
- e. demand curve
- f. change in quantity demanded
- g. Law of Demand
- h. elastic demand
- 1. the desire, ability, and willingness to buy a product
- **2.** a movement along the demand curve showing that a different quantity is purchased in response to a change in price
- **3.** a statement that more will be demanded at lower prices and less at higher prices
- **4.** a listing in a table that shows the quantity demanded at all possible prices in the market at a given time
- **5.** a principle illustrating that consumers demand different amounts at every price, causing the demand curve to shift to the left or the right
- 6. the field of economics that deals with behavior and decision making by individuals and firms
- **7.** a principle illustrating that a relatively small change in price causes a relatively large change in the quantity demanded
- **8.** a graph that shows the quantity demanded at all possible prices in the market at a given time

Reviewing the Facts

Section 1 (pages 89–93)

- **1. Describe** a demand schedule and a demand curve. How are they alike?
- **2. Explain** how the principle of diminishing marginal utility is related to the downward-sloping demand curve.

Section 2 (pages 95–99)

- **3. Describe** the difference between the income effect and the substitution effect.
- 4. **Identify** the five factors that can cause a change in market demand.

Section 3 (pages 101–107)

- **5. Describe** the difference between elastic demand and inelastic demand.
- **6. Explain** how the total expenditures test can be used to determine demand elasticity.

Thinking Critically

CONTENTS

- 1. Making Generalizations Do you think the Law of Demand accurately reflects most people's behavior regarding certain purchases? Explain.
- 2. Drawing Conclusions What would normally happen to a product's market demand curve in a growing and prosperous community if consumer tastes, expectations, and the prices of related products remained unchanged? Create a web like the one below to explain your answer.



Chapter 4 Assessment and Activities

Applying Economic Concepts

- **1. Demand** Why do you think a knowledge of demand would be useful to an individual like yourself? To a businessperson like Keith Clinkscales (cover story, page 89)?
- Demand How do you think the market demand curve for pizza would be affected by (1) an increase in everyone's pay, (2) a successful pizza advertising campaign, (3) a decrease in the price of hamburgers, and (4) new people moving into the community? Explain your answers.
- **3. Demand Elasticity** How would you, as a business owner, use your knowledge of demand elasticity to determine the price of your product?

Math Practice

Mindy is trying to estimate the elasticity of demand for a product she wants to sell at a craft fair. She has been told that she can expect to sell 10 items if she charges a price of \$10, six items if she charges a price of \$20, and 18 items at a price of \$5.

- **1.** Make a demand schedule to show the quantities demanded at each price.
- **2.** Use the information in the demand schedule to create a demand curve and to graph the results.
- **3.** At which price would the total expenditures by consumers be greatest for the product? At what price would expenditures be the smallest?

Thinking Like an Economist

Write a paragraph describing a business that you might like to own and the major product that the business would produce. Next, use the three determinants of demand elasticity to predict the elasticity of demand for that product. Describe the pricing policy you would use to get consumers to maximize their expenditures on that product.

Technology Skill

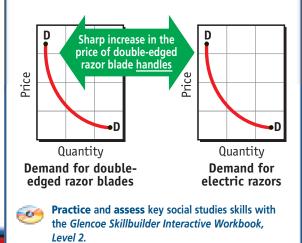
Using the Internet Use a search engine to find the Web site for the U.S. Department of Commerce. Select the option "Economics and Statistics Administration." Next select "STAT-USA." Then click on "State of the Nation." From the options on the screen, select "Manufacturing and Trade, Inventories and Sales." Locate the information on "Apparel and accessory stores," and answer the questions that follow.

- 1. How many months does the data cover?
- **2.** Compare the monthly data on inventory. Is the inventory increasing, decreasing, or about the same? Then, compare the data on sales.
- **3.** Are there any sharp fluctuations in inventory or sales from one month to the next? If so, what might have caused these changes?
- **4.** Do you think demand for apparel increases or decreases according to the season or time of year? How do you think this change in demand relates to inventory and sales?

Building Skills

CONTENTS

Understanding Cause and Effect Draw the two demand curves below on separate sheets of paper. Then, show how the rise in the cost of razor blade handles affects the demand curve for its complementary and its substitute products.



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CHAPTER

5

Supply

Economics & You

About how many hours do you spend studying every night? How many hours would you study if you were paid \$1 an hour? \$10 an hour? If you will study more for a higher price, you are following the Law of Supply. To learn more about supply, view the Chapter 6 video lesson:

What Is Supply?





Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 5—Chapter Overviews* to preview chapter information.

CLICK HERE

CONTENTS

A firm's willingness to supply products depends on the price it can charge and on its cost of production.

What Is Supply?

SECTION 1

Study Guide

Main Idea

For almost any good or service, the higher the price, the larger the quantity that will be offered for sale.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by describing how supply differs from demand.



Key Terms

supply, Law of Supply, supply schedule, supply curve, market supply curve, quantity supplied, change in

Cover Story

Sell It on the Web

By now, just about everyone has heard the breathless prediction about the coming explosion in e-commerce. From the corner store to the corporate boardroom, entrepreneurs recognize that there's



Online business grows.

money to be made online. The debate is no longer about whether you should put your business online but about what is the best way to do it....

about what is the best way to do RTTT A new group of e-commerce solutions lets small businesses take a dip into e-commerce without getting in over their heads. These turnkey solutions offer several advantages.... No knowledge of HTML is required, because all the site design is done using ready-made templates (and) authoring tools....

-PC Magazine, September 17, 1998

CONTENTS

quantity supplied, change in supply, subsidy, supply elasticity

Objectives

After studying this section, you will be able to:

- 1. **Understand** the difference between the supply schedule and the supply curve.
- 2. Explain how market supply curves are derived.
- 3. Specify the reasons for a change in supply.

Applying Economic Concepts

Supply The Law of Supply tells us that firms will produce and offer for sale more of their product at a high price than at a low price. On another level, think about your own labor. You are the supplier, and the higher the pay, the more work you are willing to supply.

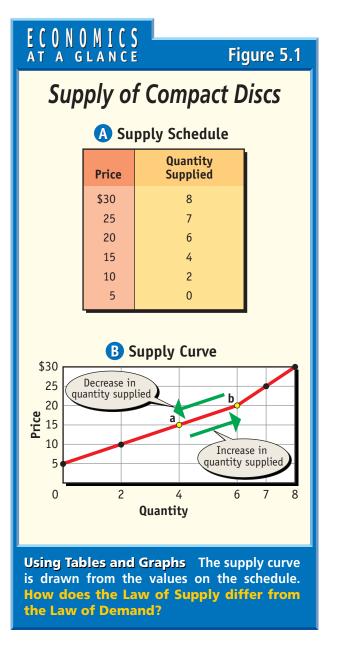
he concept of supply is based on voluntary decisions made by producers, whether they are proprietorships working out of home offices or large corporations operating out of downtown corporate headquarters. For example, a producer might decide to offer one amount for sale at one price and a different quantity at another price. **Supply**, then, is defined as the amount of a product that would be offered for sale at all possible prices that could prevail in the market.

Because the producer is *receiving* payment for his or her products, it should come as no surprise that more will be offered at higher prices. This forms the basis for the **Law of Supply**, the principle that suppliers will normally offer more for sale at high prices and less at lower prices.

An Introduction to Supply

All suppliers of economic products must decide how much to offer for sale at various prices—a decision made according to what is best for the individual seller. What is best depends, in

CHAPTER 5: SUPPLY 113



turn, upon the cost of producing the goods or services. The concept of supply, like demand, can be illustrated in the form of a table or a graph.

The Supply Schedule

The **supply schedule** is a listing of the various quantities of a particular product supplied at all possible prices in the market. **Panel A** of **Figure 5.1** is a hypothetical supply schedule for compact digital discs. It shows the quantities of CDs that will

be supplied at various prices, other things being equal. If you compare it to the demand schedule in **Panel A** of **Figure 4.1** on page 90 you will see that the two are remarkably similar. The only real difference between the two is that prices and quantities now move in the same direction for supply–rather than in opposite directions as in the case of demand.

The Individual Supply Curve

The data presented in the supply schedule can also be illustrated graphically as the upward-sloping line in **Panel B** of **Figure 5.1**. To draw it, we transfer each of the price-quantity observations in the schedule over to the graph, and then connect the points to form the curve. The result is a **supply curve**, a graph showing the various quantities supplied at each and every price that might prevail in the market.

All normal supply curves slope from the lower left-hand corner of the graph to the upper righthand corner. This is a positive slope and shows that if one of the values goes up, the other will go up too.

While the supply schedule and curve in the figure represent a single, hypothetical producer of compact digital discs, we should realize that supply is a very general concept. In fact, you are a supplier when you look for a job and offer your services for sale. Your economic product is your labor, and you would probably be willing to supply more labor for a high wage than for a low one.

The Market Supply Curve

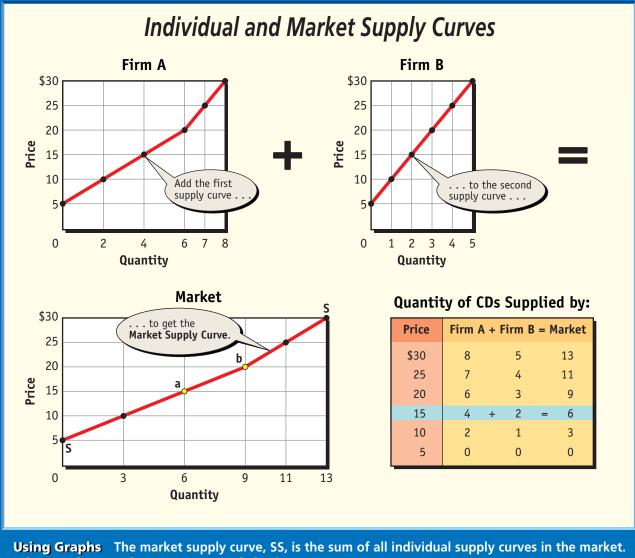
The supply schedule and curve in **Figure 5.1** show the information for a single firm. Frequently, however, we are more interested in the **market supply curve**, the supply curve that shows the quantities offered at various prices by all firms that offer the product for sale in a given market.

To obtain the data for the market supply curve, add the number of CDs that individual firms would produce at each and every price, and then plot them on a separate graph. In **Figure 5.2**, point **a** on the market supply curve represents six CDs–four from the first firm and two from the second–that are offered for sale at a price of \$15. Correspondingly, point **b** on the curve represents a total of nine CDs offered for sale at a price of \$20.



ECONOMICS AT A GLANCE

Figure 5.2



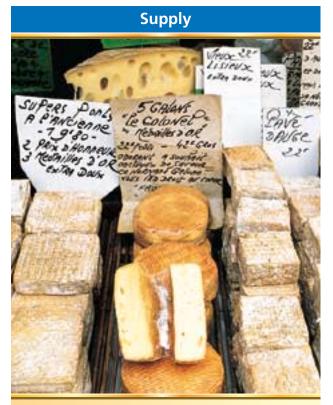
Why are the supply curves upward sloping?

Change in Quantity Supplied

The **quantity supplied** is the amount that producers bring to market at any given price. A change in quantity supplied is the change in amount offered for sale in response to a change in price. In Figure 5.1, for example, four CDs are supplied when the price is \$15. If the price increases to \$20, six CDs are supplied. If the price then changes to \$25, seven units are supplied.

These changes illustrate a change in the quantity supplied which-like the case of demandshows as a movement along the supply curve. Note that the change in quantity supplied can be an *increase* or a *decrease*, depending on whether more or less of a product is offered. For example, the movement from **a** to **b** in Figure 5.1 shows an increase because the number of products offered for sale goes from four to six when the price goes up.





The Effect of Price A delicatessen offers different kinds of cheeses at various prices. *How does the price of a product affect the quantity offered for sale?*

In a competitive economy, producers usually react to changing prices in just this way. While the interaction of supply and demand usually determines the final price for the product, the producer has the freedom to adjust production. Take oil as an example. If the price of oil falls, the producer may offer less for sale, or even leave the market altogether if the price goes too low. If the price rises, the oil producer may offer more units for sale to take advantage of the better prices.

Change in Supply

Sometimes something happens to cause a **change in supply**, a situation where suppliers offer different amounts of products for sale at all possible prices in the market. For example, the supply schedule in **Figure 5.3** shows that producers are now willing to offer more CDs for sale at every

price than before. Where 6 units were offered at a price of \$15, now there are 13. Where 11 were offered at a price of \$25, 18 are now offered, and so on for every price shown in the schedule.

When both old and new quantities supplied are plotted in the form of a graph, it appears as if the supply curve has shifted to the right, showing an *increase in supply*. For a *decrease in supply* to occur, less would be offered for sale at each and every price, and the supply curve would shift to the left.

Changes in supply, whether increases or decreases, can occur for several reasons. As you read, keep in mind that all but the last reason-the number of sellers-affects both the individual and the market supply curves.

Cost of Inputs

A change in the cost of inputs can cause a change in supply. Supply might increase because of a decrease in the cost of inputs, such as labor or packaging. If the price of the inputs drops, producers are willing to produce more of a product at each and every price, thereby shifting the supply curve to the right.

An increase in the cost of inputs has the opposite effect. If labor or other costs rise, producers would not be willing to produce as many units at each and every price. Instead, they would offer fewer products for sale, and the supply curve would shift to the left.

Productivity

When management motivates its workers, or if workers decide to work more efficiently, productivity should increase. The result is that more CDs are produced at every price, which shifts the supply



Economic Efficiency In 1814 Francis Lowell combined all the stages of textile production—spinning, weaving, bleaching, dyeing, and printing—under one roof. His efficient mill launched the nation's Industrial Revolution, changing the system of manufacturing from the home to the factory.



curve to the right. On the other hand, if workers are unmotivated, untrained, or unhappy, productivity could decrease. The supply curve shifts to the left because fewer goods are brought to the market at every possible price.

Technology

New technology tends to shift the supply curve to the right. The introduction of a new machine,

chemical, or industrial process can affect supply by lowering the cost of production or by increasing productivity. For example, improvements in the fuel efficiency of aircraft engines have lowered the cost of providing passenger air service. When production costs go down, the producer is usually able to produce more goods and services at each and every price in the market.

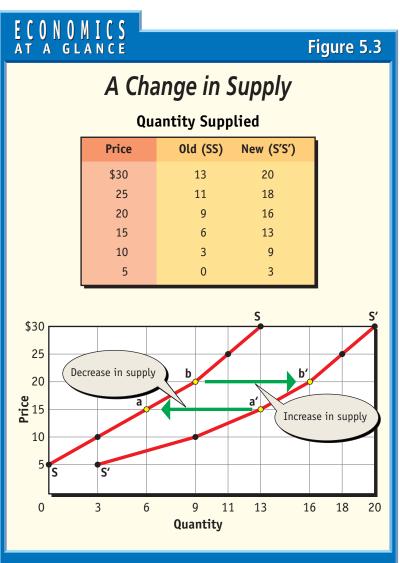
New technologies do not always work as expected, of course. Equipment can break down, or the technology—or even replacement parts—might be difficult to obtain. This would shift the supply curve to the left. These examples are exceptions, however. New technology far more often increases supply.

Taxes and Subsidies

Firms view taxes as costs. If the producer's inventory is taxed or if fees are paid to receive a license to produce, the cost of production goes up. This causes the supply curve to shift to the left. Or, if taxes go down production costs go down, supply then increases and the supply curve shifts to the right.

A **subsidy** is a government payment to an individual, business, or other group to encourage or protect a certain type of economic activity. Subsidies lower the cost of production, encouraging current producers to remain in the market and new producers to enter. When subsidies are repealed, costs go up, producers leave the market, and the supply curve shifts to the left.

Historically, many farmers in the milk, corn, wheat, and soybean industries received substantial subsidies to support their income. While many farmers would have gone out of business without these subsidies, the fact that they were paid ensured their ability to remain operational, and the market supply curve shifted to the right.



Using Tables and Graphs A change in supply means that a different quantity is supplied at every price. What does a shift of the supply curve to the right show?



Expectations

Expectations about the future price of a product can also affect the supply curve. If producers think the price of their product will go up, they may withhold some of the supply. This causes supply to decrease and the supply curve to shift to the left. On the other hand, producers may expect lower prices for their output in the future. In this situation, they may try to produce and sell as much as possible right away, causing the supply curve to shift to the right.

Government Regulations

When the government establishes new regulations, the cost of production can be affected, causing a change in supply. For example, when the

Careers



Real Estate Agent

Real estate agents assist in renting, selling, and buying property for clients. In return, they receive a percentage of the rent or sale prices of the property.

The Work

Responsibilities include obtaining listings—owner agreements to place properties for rent or sale—advertising the property, and

showing the property to prospective renters and buyers. Agents need to be familiar with fair-market values, zoning laws, local land-use laws, housing and building codes, insurance coverage, mortgage and interest rates, and credit and loan policies. They may also need to know about leasing practices, business trends, location needs, transportation, utilities, and labor supply. Agents often work evenings and weekends because they must accommodate their schedule to that of the client.

Qualifications

Agents should have a high school education at the minimum and possess a real estate license. government mandates new auto safety features such as air bags or emission controls, cars cost more to produce. Producers adjust to the higher production costs by producing fewer cars at each and every price in the market.

In general, increased—or tighter—government regulations restrict supply, causing the supply curve to shift to the left. Relaxed regulations allow producers to lower the cost of production, which results in a shift of the supply curve to the right.

Number of Sellers

All of the factors you just read about can cause a change in an individual firm's supply curve and, consequently, the market supply curve. It follows, therefore, that a change in the number of suppliers causes the market supply curve to shift to the right or left.

As more firms enter an industry, the supply curve shifts to the right. In other words, the larger the number of suppliers, the greater the market supply. If some suppliers leave the market, fewer products are offered for sale at all possible prices. This causes supply to decrease, shifting the curve to the left.

In the real world, sellers are entering the market and leaving the market all the time. Some economic analysts believe that, at least initially, the development of the Internet will result in larger numbers entering the market than in leaving. They point out that almost anyone with Internet experience and a few thousand dollars can open up his or her own Internet store. Because of the ease of entry into these new markets, being a seller is no longer just for the big firms.

Elasticity of Supply

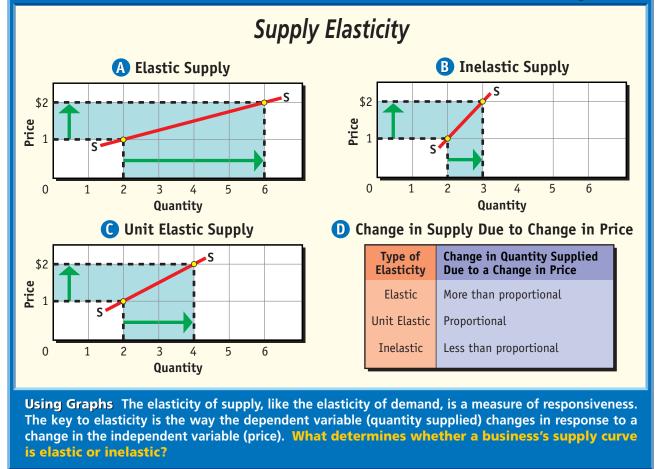
CONTENTS

Just as demand has elasticity, there is elasticity of supply. **Supply elasticity** is a measure of the way in which quantity supplied responds to a change in price. If a small increase in price leads to a relatively larger increase in output, supply is elastic. If the quantity supplied changes very little, supply is inelastic.

What is the difference between supply elasticity and demand elasticity? Actually, there is very little difference. If quantities are being purchased, the

ECONOMICS AT A GLANCE

Figure 5.4



concept is demand elasticity. If quantities are being brought to market for sale, the concept is supply elasticity. Keep in mind that elasticity is simply a measure of the way quantity adjusts to a change in price.

Three Elasticities

Examples of supply elasticity are illustrated in **Figure 5.4.** The supply curve in **Panel A** is elastic because the change in price causes a relatively larger change in quantity supplied. Doubling the price from \$1 to \$2 causes the quantity brought to market to triple.

Panel B shows an inelastic supply curve. A change in price causes a relatively smaller change in quantity supplied. When the price is doubled

from \$1 to \$2, the quantity brought to market goes up only 50 percent, or from two units to three units.

Panel C shows a unit elastic supply curve. A change in price causes a proportional change in the quantity supplied. The price doubles from \$1 to \$2, which causes the quantity brought to market also to double.

Determinants of Supply Elasticity

The elasticity of a business's supply curve depends on the nature of its production. If a firm can adjust to new prices quickly, then supply is likely to be elastic. If the nature of production is such that adjustments take longer, then supply is likely to be inelastic.



Supply and Demand



Elasticity Business owners need to be aware of the relationship between supply and demand. What is the difference between supply elasticity and demand elasticity? The supply curve for shale oil, for example, is likely to be inelastic in the short run. No matter what price is being offered, companies will find it difficult to increase output because of the huge amount of capital and technology needed before production can be increased very much.

However, the supply curve is likely to be elastic for kites, candy, and other products that can be made quickly without huge amounts of capital and skilled labor. If consumers are willing to pay twice the price for any of these products, most producers will be able to gear up quickly to significantly increase production.

The elasticity of supply is different from the elasticity of demand in several important respects. First, the number of substitutes has no bearing on the elasticity of supply. In addition, considerations such as the ability to delay the purchase or the portion of income consumed have no relevance to supply elasticity even though they are essential for demand elasticity. Instead, only production considerations determine supply elasticity. If a firm can react quickly to higher or lower prices, then supply is likely to be elastic. If the firm takes longer to react to a change in prices, then supply is likely to be inelastic. For these reasons, there is no supply elasticity table equivalent to Figure 4.6 on page 106.

Section 1 Assessment

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 113, describe how supply is different from demand.
- 2. Key Terms Define supply, Law of Supply, supply schedule, supply curve, market supply curve, quantity supplied, change in quantity supplied, change in supply, subsidy, supply elasticity.
- **3. Describe** the difference between the supply schedule and the supply curve.
- Describe how market supply curves are obtained.

5. List the factors that can cause a change in supply.

Applying Economic Concepts

6. Supply Provide an example of an economic good whose producer would increase the quantity supplied if the price were to go up.

Critical Thinking

CONTENTS

7. Understanding Cause and Effect According to the Law of Supply, how does price affect the quantity offered for sale?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.



Enterprising Entrepreneurs

There have been literally millions of American entrepreneurs. A few, however, are noteworthy for taking modest business dreams to stunning heights. Three of the most impressive are Richard Sears, Milton Hershey, and John Johnson.

RICHARD SEARS

In 1886, 23-year-old Richard Sears was a railway station agent in North Redwood, Minnesota. Sears had free time on his hands, so he decided to make a little money on the side. He bought a surplus shipment of watches and started selling them to other station agents.



Encouraged by his profits, Sears moved to Chicago, where he partnered with Alvah C. Roebuck, who could repair watches. They founded Sears, Roebuck and Company in

1893, and published their first catalog a year later. Rural residents, who could "Shop at Sears and Save" by avoiding middlemen, loved the catalog, and the company prospered. Within a decade, Sears was the largest mail-order firm in the world. In 1935, Sears opened its first retail

store. Today, Sears, Roebuck and Company is one of the largest retail businesses in the world, employing more than 300,000 people.



MILTON HERSHEY

Milton Hershey started as a poor farm boy, and received little education. He failed as a candy seller in Philadelphia, Denver, New York, Chicago, and New Orleans. At 30, he was flat broke and shunned by his family. But one more try at the candy businessthis time making a caramel candy of his own recipe-made him a success. In fact, his "Hershey's Crystal A" made him a millionaire. In 1895, Hershey sold his caramel company and went into the chocolate business. In just a few years, the name Hershey became synonymous with chocolate. It still is, due to the dogged persistence of a man who failed for decades before he succeeded.

JOHN JOHNSON

In 1942, John Johnson set off to publish a magazine called *Negro*

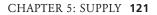


Digest. Most white magazine sellers, doubting that there was a sufficient African American readership, refused to carry it. So Johnson convinced hundreds of acquaintances to ask for the magazine at newsstands, and then to buy all the copies once they came in. Circulation soared. Johnson then persuaded the first lady, Eleanor Roosevelt, to write a piece called "If I Were a Negro" for the magazine. The publicity tripled circulation.

Johnson followed this success in 1945 by founding *Ebony*, a magazine aimed at African American veterans of World War II. The magazine proved even more popular than his first. A third magazine, *Jet*, was produced, and whereas there had been no national magazines for African Americans before, there were now three. And they were all a result of the hard work of just one enterprising entrepreneur.

Examining the Profile

- Making Generalizations Explain how persistence played a role in the success of each of these men.
- For Further Research Find out the etymology of *entrepreneur* and explain why the word is used as it is today.





The Theory of Production

SECTION 2

Study Guide

Main Idea

A change in the variable input called labor results in a change in production.

Reading Strategy

Graphic Organizer As you read about production, complete a graphic organizer similar to the one below by listing what occurs during the three stages of production.

Stage I	Stage II	Stage III			

Key Terms

theory of production, short run, long run, Law of Variable Proportions, production function, raw materials, total product, marginal product, stages of production, diminishing returns

Objectives

After studying this section, you will be able to:

- 1. Explain the theory of production.
- 2. Describe the three stages of production.

Applying Economic Concepts

Diminishing Returns Has the quality of your work ever declined because you worked too hard at something? Sometimes you reach a stage where you still make progress but at a diminished rate.

Cover Story

The Effects Are Getting Less Special All the Time

When George Lucas declares that digital effects are a technological advance as profound as the advent of sound and color, he is exactly right....

But is the revolution



New technology is altering moviemaking.

already over?

Mixed reaction to his new movie, Star Wars Episode I: The Phantom Menace, suggest that it may be, in the same way that revolutions ushered in by color and sound were profound but brief affairs....after all,

none of us is amazed when we go to the movies and hear an actor speak. Nor are we amazed when we go to the movies and see color images.

What this creates, for effects-driven movies, is a scale of diminishing returns. The more Lucas achieves in the digital arena, the smarter we become, the harder we are to impress....

-Philadelphia Daily News, May 21, 1999

hether they are film producers of multimillion-dollar epics or small firms that market a single product, suppliers face a difficult task. Producing an economic good or service requires a combination of land, labor, capital, and entrepreneurs. The theory of production deals with the relationship between the factors of production and the output of goods and services.

The theory of production generally is based on the short run, a period of production that allows producers to change only the amount of the variable input called labor. This contrasts with the long run, a period of production long enough for producers to adjust the quantities of all their resources, including capital. For example, Ford Motors hiring 300 extra workers for one of its plants is a short-run adjustment. If Ford builds a new factory, this is a long-run adjustment.

Law of Variable Proportions

CONTENTS

The Law of Variable Proportions states that, in the short run, output will change as one input is varied while the others are held constant. Although the name of the law is probably new to you, the concept is not.

For example, if you are preparing a meal, you know that a little bit of salt will make the food taste better. A bit more may make it tastier still. Yet, at some point, too much salt will ruin the meal. As the amount of the input-salt-varies, so does the output-the quality of the meal.

The Law of Variable Proportions deals with the relationship between the input of productive resources and the output of final products. The law helps answer the question: How is the output of the final product affected as more units of one variable input or resource are added to a fixed amount of other resources?

A farmer, for example, may have all the land, machines, workers, and other items needed to produce a crop. However, the farmer, may have some questions about the use of fertilizer. How will the crop yield be affected if different amounts of fertilizer are added to fixed amounts of the other inputs? In this case, the variable input is the fertilizer added per acre.

Of course, it is possible to vary all the inputs at the same time. The farmer may want to know what will happen to output if the fertilizer and other factors of production are varied.

Economists do not like to do this, however, because when more than one factor of production is varied, it becomes harder to gauge the impact of a single variable on total output.

The Production Function

The Law of Variable Proportions can be illustrated by using a **production function**–a concept that describes the relationship between changes in output to different amounts of a single input while other inputs are held constant. The production function can be illustrated with a schedule, such as the one in **Panel A** of **Figure 5.5**, or with a graph like the one in **Panel B**.

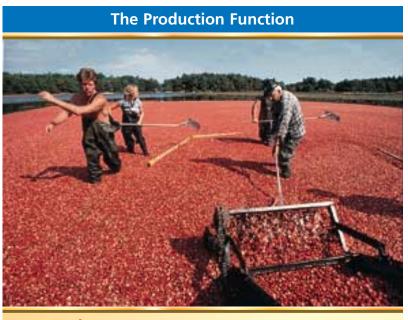
The production schedule in the figure lists hypothetical output as

the number of workers is varied from zero to 12. With no workers, for example, there is no output. If the number of workers increases by one, output rises to seven. Add yet another worker and total output rises to 20. This information is used to construct the production function that appears as the graph in **Panel B**, where the variable input is shown on the horizontal axis with total production on the vertical axis.

In this example, only the number of workers changes. No changes occur in the amount of machinery used, the level of technology, or the quantities of **raw materials**—unprocessed natural products used in production. Under these conditions, any change in output must be the result of the variation in the number of workers.

Total Product

The second column in the production schedule in **Figure 5.5** shows **total product**, or total output produced by the firm. The numbers indicate that the plant barely operates when it has only one or two workers. As a result, some resources stand idle much of the time.



Inputs and Outputs All businesses must deal with the questions that surround the production relationship. *Why is the use of the production function important in business?*



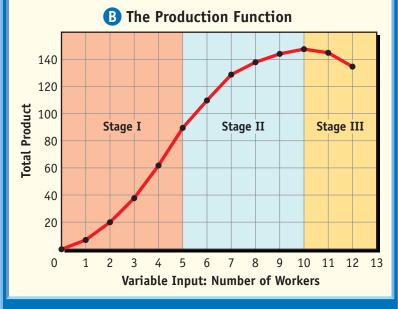
Figure 5.5

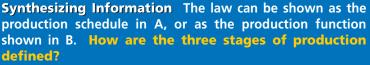
The Law of Variable Proportions

Number of Workers	Total Product	Marginal Product*	Regions of Production	
0	0	0	Stage I	
1	7	7		
2	20	13		
3	38	18		
4	62	24		
5	90	28		
6	110	20	Stage II	
7	129	19		
8	138	9		
9	144	6		
10	148	4		
11	145	-3	Stage III	
12	135	-10		

A The Production Schedule

*All figures in terms of output per day





Total Product Rises

As more workers are added, however, total product rises. More workers can operate more machinery, and plant output rises. Additional workers also means that the workers can specialize. For example, one group runs the machines, another handles maintenance, and a third group assembles the products. By working in this way-as a coordinated whole-the firm can be more productive.

Total Product Slows

As even more workers are added output continues to rise, but it does so at a slower rate until it can grow no further. Finally, the addition of the eleventh and twelfth workers causes total output to go down because these workers just get in the way of the others. Although the ideal number of workers cannot be determined until costs are considered, it is clear that the eleventh and twelfth workers will not be hired.

Marginal Product

The measure of output shown in the third column of the production schedule in **Figure 5.5** is an important concept in economics. The measure is known as **marginal product**, the extra output or change in total product caused by the addition of one more unit of variable input.

As we can see in the figure, the marginal product, or extra output of the first worker, is seven. Likewise, the marginal product of the second worker–which is equal to the change in total product–is 13. Together, both workers account for 20 units of total product.



Three Stages of Production

When it comes to determining the optimal number of variable units to be used in production, changes in marginal product are of special interest. Figure 5.5 shows the three stages of production—increasing returns, diminishing returns, and negative returns—that are based on the way marginal product changes as the variable input of labor is changed.

In Stage I, the first workers hired cannot work efficiently because there are too many resources per worker. As the number of workers increases, they make better use of their machinery and resources. This results in increasing returns (or increasing marginal products) for the first five workers hired.

As long as each new worker hired contributes more to total output than the worker before, total output rises at an increasingly faster rate. Because marginal output increases by a larger amount every time a new worker is added, Stage I is known as the stage of increasing returns. Companies, however, do not knowingly produce in Stage I for very long. As soon as a firm discovers that each new worker adds more output than the last, the firm is tempted to hire another worker. In Stage II, the total production keeps growing, but by smaller and smaller amounts. Any additional workers hired may stock shelves, package parts, and do other jobs that leave the machine operators free to do their jobs. The rate of increase in total production, however, is now starting to slow down. Each additional worker, then, is making a diminishing, but still positive, contribution to total output.

Stage II illustrates the principle of **diminishing returns**, the stage where output increases at a diminishing rate as more units of a variable input are added. In **Figure 5.5**, Stage II begins when the sixth worker is hired, because the 20-unit marginal product of that worker is less than the 28-unit marginal product of the fifth worker.

The third stage of production begins when the eleventh worker is added. By this time, the firm has hired too many workers, and they are starting to get in each other's way. Marginal product becomes negative and total plant output decreases.

Most companies do not hire workers whose addition would cause total production to decrease. Therefore, the number of workers hired would be found only in Stage II. The exact number of workers hired depends on the cost of each worker. If the cost is low, the firm should hire at least six, but no more than 10, workers.

Section 2 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Using your notes from the graphic organizer activity on page 122, explain how production is affected by a change in inputs.
- **2. Key Terms** Define theory of production, short run, long run, Law of Variable Proportions, production function, raw materials, total product, marginal product, stages of production, diminishing returns.
- **3. Describe** the relationship on which the theory of production is based.
- **4. Explain** how marginal product changes in each of the three stages of production.
- **5. Identify** what point will eventually be reached if companies continue adding workers.

Applying Economic Concepts

6. Diminishing Returns Provide an example of a time when you entered a period of diminishing returns or even negative returns. Explain why this might have occurred.

Critical Thinking

- 7. Sequencing Information You need to hire workers for a project you are directing. You may add one worker at a time in a manner that will allow you to measure the added contribution of each worker. At what point will you stop hiring workers? Relate this process to the three stages of the production function.
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

APRIL 19, 1999

The price of the average desktop computer shrank by 17.3% in just one year. As prices continue to fall, computer makers are scrambling to find other ways to make a profit.

New Directions for **PC Makers**



Hardly a week goes by that some wild-eved startup doesn't announce a scheme to give personal away computers-as if the PC were some throwaway rather than the machine that ushered in the Information Age. On March 31, following in the footsteps of Free-PC, NuAction, and DirectWeb, New York-based Gobi

said it would hand out free PCs to consumers who sign up for three years of Internet service. Meanwhile, emachines Inc. keeps cranking out PCs priced as low as \$399, and startup Microworkz Computer Corp. says it will soon sell them for \$299....

... Two years of free-falling prices are squeezing the life out of margins, threatening to leave PC makers gasping for profits.... Analysts

Newsclip

expect prices to plummet nearly 15% [in one year], capping industrywide sales growth at less than 5%....

Suddenly, PC makers are heading off in surprising new directions. Dell and Compaq are developing E-commerce businesses—whether it's collecting monthly Internet service fees or becoming online sellers of everything from printers to carrying cases....

Other PC makers think new gizmos are the answer. Compaq and Packard Bell NEC Inc. are preparing non-PC products such as cell phones and newfangled devices that act as Web-access machines....

Ultimately, these launches into cyberspace could morph into sweeping new business models in which PC companies make money not on their hardware but on the services they

can bundle with their boxes. Already, Gateway and Compaq get a share of monthly revenues from Internet service providers featured on their machines. And the more subscribers they sign up, the more advertisers will pay to get their ads to these potential shoppers.

-Reprinted from April 19, 1999 issue of *Business Week*, by special permission, copyright © 1999 by The McGraw-Hill Companies, Inc.

Examining the Newsclip

- **1. Understanding Cause and Effect** Why are companies moving away from producing PCs?
- 2. Making Generalizations What are some companies doing in order to stay competitive in the computer industry?



Cost, Revenue, and Profit Maximization

SECTION 3

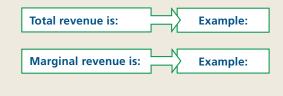
Study Guide

Main Idea

Profit is maximized when the marginal costs of production equal the marginal revenue from sales.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by explaining how total revenue differs from marginal revenue. Then provide an example of each.



Key Terms

fixed cost, overhead, variable cost, total cost, marginal cost, e-commerce, total revenue, marginal revenue, marginal analysis, break-even point, profitmaximizing quantity of output

Objectives

After studying this section, you will be able to:

- 1. Define four key measures of cost.
- 2. Identify two key measures of revenue.
- 3. Apply incremental analysis to business decisions.

Applying Economic Concepts

Overhead Overhead is one type of fixed cost that we try to avoid whenever we can. Read to see how overhead can even change the way people do business.

Cover Story

More Retailers Discover Net Auctions

Johnelle Lentner rarely made more than \$250 a month peddling benches, chests, pie safes and other collectibles from the space she rented in an Isanti, Minnesota-based antiques shop.

But last August, Lentner

gave up brick-and-mortar retailing and took her business entirely online. Since ending the \$60-a-month lease with Isanti Antiques to sell over Internet auction site eBay, Lentner's monthly income has shot up 700%. "You get the highest dollar amount for what you're

trying to sell online, and there is no overhead. . . . "

-USA Today, May 17, 1999

CONTENTS

ohnelle Lentner talked about eliminating overhead for her business. Overhead is one of many different measures of costs.

Measures of Cost

M Because the cost of inputs influences effile cient production decisions, a business must analyze costs before making its decisions. To simplify decision making, cost is divided into several different categories.

The first category is **fixed cost**—the cost that a business incurs even if the plant is idle and output is zero. It makes no difference whether the business produces nothing, very little, or a large amount. Total fixed cost, or overhead, remains the same.

Fixed costs include salaries paid to executives, interest charges on bonds, rent payments on leased properties, and local and state property taxes. Fixed costs also include depreciation, the



Collectible available online

CHAPTER 5: SUPPLY 127

ECONOMICS At a glance

Figure 5.6

Production Schedule				Costs				Revenues		Profit
Regions of Production	Number of Workers	Total Product	Marginal Product	Total Fixed Costs	Total Variable Costs	Total Costs	Marginal Costs	Total Revenue	Marginal Revenue	Total Profit
	0	0	0	\$50	\$0	\$50		\$0		-\$50
Stage I	1	7	7	50	90	140	\$13	105	\$15	-35
	2	20	13	50	180	230	6.92	300	15	70
	3	38	18	50	270	320	5.00	570	15	250
	4	62	24	50	360	410	3.75	930	15	520
	5	90	28	50	450	500	3.21	1,350	15	850
Stage II	6	110	20	50	540	590	4.50	1,650	15	1,060
	7	129	19	50	630	680	4.74	1,935	15	1,210
	8	138	9	50	720	770	10.00	2,070	15	1,300
	9	144	6	50	810	860	15.00	2,160	15	1,300
	10	148	4	50	900	950	22.50	2,220	15	1,270
Stage III	11	145	-3	50	990	1,040		2,175	15	1,135
	12	135	-10	50	1,080	1,130		2,025	15	895

Production, Costs, and Revenues

Using Tables The concepts of marginal product, marginal cost, and marginal revenue are central to economic analysis. Marginal product is used to define the three stages of production. Marginal cost and marginal revenue are used to determine the profit-maximizing quantity of output. How do total costs differ from marginal costs?

gradual wear and tear on capital goods over time and through use. A machine, for example, will not last forever because its parts will wear out slowly and eventually break.

The nature of fixed costs is illustrated in the fourth column of the table in **Figure 5.6**, which is an extension of the production schedule in **Figure 5.5**. Note that, regardless of the level of total output, fixed costs amount to \$50.

Another kind of cost is **variable cost**, a cost that changes when the business rate of operation or output changes. While fixed costs generally are associated with machines and other capital goods, variable costs generally are associated with labor and raw materials. For example, wage-earning workers may be laid off or worked overtime as output changes. Other examples of variable costs include electric power to run the machines and freight charges to ship the final product.

In **Figure 5.6** the only variable cost is labor. If one worker costs \$90 per day, the total variable cost for one worker is \$90. Two workers, or two units of variable input, cost \$180, and so on.

The **total cost** of production is the sum of the fixed and variable costs. Total cost takes into account all the costs a business faces in the course of its operations. The business represented in **Figure 5.6**, for example, might employ six workers—costing \$90 each for a total of \$540—to produce 110 units of total output. If no other variable costs existed, and if fixed costs amounted to \$50, the total cost of production would be \$590.



CYBERNOMICS SPOTLIGHT

Costs and Information Goods

Information goods, rather than industrial goods, are the key forces in many world markets. What are information goods? Essentially, they are anything that can be digitized—baseball scores, music, and stock quotes are all information goods. The cost structure of information goods is unusual. Production of information goods requires high fixed costs but low marginal costs. In other words, producing the first copy of an information good is costly, but the cost of reproducing additional copies is much less.

Another category of cost is **marginal cost**—the extra cost incurred when a business produces one additional unit of a product. Because fixed costs do not change from one level of production to another, marginal cost is the per-unit increase in variable costs that stems from using additional factors of production.

Figure 5.6 shows that the addition of the first worker increased the total product by seven units. Because total variable costs increased by \$90, each of the additional seven units cost \$12.86, or \$90 divided by seven. If another worker is added, 13 more units of output will be produced for an additional cost of \$90. The marginal, or extra, cost of each unit of output is \$90 divided by 13, or \$6.92.

Applying Cost Principles

The cost and combination, or mix, of inputs affects the way businesses produce. The following examples illustrate the importance of costs to business firms.

Self-Service Gas Station

Consider the case of a self-serve gas station with many pumps and a single attendant who works in an enclosed booth. This operation is likely to have large fixed costs, such as the cost of the lot, the pumps and tanks, and the taxes and licensing fees paid to state and local governments.

The variable costs, on the other hand, are relatively small. The station's variable costs include the hourly wage paid to the employee, the cost of electricity for lights and pumps, and the cost of the gas sold. When all costs are included, however, the ratio of variable to fixed costs is low.

As a result, the owner may operate the station 24 hours a day, seven days a week for a relatively low cost. Even the extra cost of keeping the station open between the hours of midnight and 6:00 A.M. is minimal. As a result, the extra wages, the electricity, and other variable costs are minor and may be covered by the profits of the extra sales.

Internet Stores

Stores are flocking to the Internet, making it one of the fastest-growing areas of business today, and for reasons largely related to cost. Specifically, many stores are using the Internet because the overhead, or the fixed cost of operation, is so low.

An individual engaged in **e-commerce**–electronic business or exchange conducted over the Internet– does not need to spend large sums of money to rent a building and stock it with inventory. Instead, for just a fraction of the cost of a store, the e-commerce business owner can purchase Web access along with an e-commerce software package

STANDARD &poor's infobyte

Measures of Cost Variable costs represent expenses a corporation incurs that change with that company's level of business activity. Fixed costs represent expenses a corporation incurs that remain relatively stable despite a change in the level of that company's business activity. Expense items which generally remain fixed for any given reporting period include rent, depreciation, property tax, and executive salaries.



THE GLOBAL ECONOMY

MASTER MARKETER

Kathryn Leary helps entrepreneurs enter new markets. Among the services Leary offers are establishing contacts and coordinating trade missions.

After viewing the proverbial glass ceiling firsthand at a majority of firms, Leary, 47, felt it was time to venture off on her own.

"Once I realized the large companies had overseas offices, it became my goal to go abroad," Leary says. "But this was denied me. I started my company to help Americans market in other countries."

that provides everything from Web catalog pages to ordering, billing, and accounting software. The e-commerce business owner inserts pictures and descriptions of the products for sale into the software and loads the program.

When customers visit the "store" on the Web, they see what appears to be a full range of merchandise for sale. In some cases, the owner has the goods in stock, as with Johnelle Lentner's antique auction site. In other cases, the store takes the orders and forwards them to the manufacturer or to specialty warehouses that handle the shipping.

Measures of Revenue

Businesses use two key measures of revenue to find the amount of output that will produce the greatest profits. The first is total revenue, and the second is marginal revenue.

The **total revenue** is the number of units sold multiplied by the average price per unit. If 7 units are sold at \$15 each, the total revenue is \$105, as shown in the total revenue column in **Figure 5.6**. The second, and more important, measure of revenue is **marginal revenue**, the extra revenue associated with the production and sale of one additional unit of output. To prepare for doing business in Japan, Leary took language classes to master basic greetings and common phrases, studied the culture at the Asia Society in New York, subscribed to the international edition of the Japan *Times* and other magazines and newsletters and read books on Japanese business customs...

-Black Enterprise, August 1999

Critical Thinking

- 1. Finding the Main Idea Why did Leary start her own company?
- **2. Analyzing Information** What services does Leary's company provide? Why do you think her service is useful?

The marginal revenues in **Figure 5.6** are determined by dividing the change in total revenue by the marginal product. When a business has no workers, it produces no output, and it receives no revenue. When it adds the first worker, total output jumps to 7 units, and \$105 of total revenue is generated. Because the \$105 is earned from the sale of 7 units of output, each unit must have added \$15. Therefore, the marginal, or extra, revenue each unit of output brings in is \$15.

Keep in mind that whenever an additional worker is added, the marginal revenue computation remains the same. If the business employs five workers, it produces 90 units of output and generates \$1,350 of total revenue. If a sixth worker is added, output increases by 20 units, and total revenues increase to \$1,650. To have increased total revenue by \$300, each of the 20 additional units of output must have added \$15.

If each unit of output sells for \$15, the marginal or extra revenue earned by the sale of one more unit is \$15. For this reason, the marginal revenue appears to be constant at \$15 for every level of output. While marginal revenue is constant in **Figure 5.6**, this will not always be the case. Businesses often find that marginal revenues start high and then decrease as more and more units are produced and sold.



Marginal Analysis

Economists use **marginal analysis**, a type of cost-benefit decision making that compares the extra benefits to the extra costs of an action. Marginal analysis is helpful in a number of situations, including break-even analysis and profit maximization. In each case the process involves comparing the costs and benefits of decisions that are made in small, incremental steps.

The **break-even point** is the total output or total product the business needs to sell in order to cover its total costs. In **Figure 5.6**, the break-even point is between 7 and 20 units of total product, so at least two workers would have to be hired to break even.

A business wants to do more than break even, however. It wants to make as much profit as it can. We know that the business represented in **Figure 5.6** will break even when it hires the second worker. But, how many workers and what level of output are needed to generate the maximum profits?

The owners of the business can decide by comparing marginal costs and marginal revenues. The business would probably hire the sixth worker, for example, because the extra output would only cost \$4.50 to produce, and would generate \$15 in revenues. In general, as long as the marginal cost is less than the marginal revenue, the business will keep hiring workers. Having made a profit with the sixth worker, the business probably would hire the seventh and eighth workers. If it hired the ninth worker, however, the cost of the additional output would equal the additional revenue earned when the product was sold. The addition of the ninth worker neither adds to nor takes away from total profits—so the firm would have little incentive to hire the tenth worker. If it did, it would quickly discover that profits would go down, and it would go back to using nine workers.

When marginal cost is less than marginal revenue, more variable inputs should be hired to expand output. The **profit-maximizing quantity of output** is reached when marginal cost and marginal revenue are equal. In **Figure 5.6**, profits are maximized when the ninth worker is hired. Other combinations may generate equal profits, but no other combination will be more profitable.



Student Web Activity Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 5—Student Web Activities* for an activity on the operation of a company.

Section 3 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Using your notes from the graphic organizer activity on page 127, describe how cost affects total revenue.
- 2. Key Terms Define fixed cost, overhead, variable cost, total cost, marginal cost, e-commerce, total revenue, marginal revenue, marginal analysis, break-even point, profit-maximizing quantity of output.
- 3. List the four measures of cost.
- 4. Describe the two measures of revenue.
- 5. Explain the use of marginal analysis for break-even and profit-maximizing decisions.

Applying Economic Concepts

6. Overhead How might overhead affect the price of a new car?

Critical Thinking

7. Understanding Cause and Effect Many oilprocessing plants operate 24 hours a day, using several shifts of workers to maintain operations. How do you think a plant's fixed and variable costs affect its decision to operate around the clock?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

STUDY AND WRITING

Skill



Outlining may be used as a starting point for a writer. The writer begins with the rough shape of the material and gradually fills in the details in a logical manner. You may also use outlining as a method of note taking and organizing information as you read.

Learning the Skill

There are two types of outlines-formal and informal. Making an informal outline is similar to taking notes-you write words and phrases needed to remember main ideas. A formal outline has a standard format. Follow these steps to formally outline material.

- Read the text to identify the main ideas. Label these with Roman numerals.
- Write subtopics under each main idea. Label these ideas with capital letters.
- Write supporting details for each subtopic. Label these with Arabic numerals.
- Each level should have at least two entries and should be indented from the level above.



Production on the assembly line

• All entries use the same grammatical form, whether phrases or complete sentences.

Practicing the Skill

On a separate sheet of paper, copy the following outline of the main ideas in the first part of Section 1 of Chapter 5. Then use your textbook to fill in the missing subtopics and details.

I. An Introduction to Supply				
A. The Supply Schedule				
1.				
2. Prices and quantities move in				
same direction.				
B. The Individual Supply Curve				
1.				
2.				
C. The Market Supply Cuve				
1.				
2.				
D				
1.				
2.				
II. Change in Supply				
A.				
B. Productivity				
C.				
D.				
E. Expectations				
F.				
G.				

Application Activity

CONTENTS

Following the guidelines above, prepare an outline for Section 3 of Chapter 3.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Section 1

What Is Supply? (pages 113–120)

- **Supply** is the quantities of output that producers will bring to market at each and every price. Supply can be represented in a **supply schedule**, or graphically as a **supply curve**.
- The **Law of Supply** states that the quantities of an economic product offered for sale vary directly with its price. If prices are high, suppliers will offer greater quantities for sale. If prices are low, they will offer smaller quantities for sale.
- The **market supply curve** is the sum of the individual supply curves.
- A change in quantity supplied is represented by a movement along the supply curve.
- A **change in supply** is a change in the quantity that will be supplied at each and every price. An increase in supply is presented graphically as a shift of the supply curve to the right, and a decrease in supply appears as a shift of the supply curve to the left.
- Changes in supply can be caused by a change in the cost of inputs, productivity, new technology, taxes, **subsidies**, expectations, government regulations, and number of sellers.
- **Supply elasticity** describes how a change in quantity supplied responds to a change in price.
- If supply is elastic, a given change in price will cause a more than proportional change in quantity supplied. If supply is inelastic, a given change in price will cause a less than proportional change in quantity supplied. If supply is unit elastic, a given change in price will cause a proportional change in quantity supplied.

Section 2

The Theory of Production (pages 122–125)

• The **theory of production** deals with the relationship between the factors of production and the output of goods and services.

- The theory of production deals with the **short run**, a production period so short that only the variable input (usually labor) can be changed. This contrasts to the **long run**, a production period long enough for all inputs-including capital-to vary.
- The Law of Variable Proportions states that the quantity of output will vary as increasing units of a single input are added. This law is presented graphically in the form of a **production function**.
- The two most important measures of output are **total product** and **marginal product**, the extra output gained from adding one additional unit of input.



• Three stages of production-increasing returns, diminishing returns, and negative returns-show how marginal product changes when additional variable inputs are added. Production takes place in Stage II under conditions of diminishing returns.

Section 3

CONTENTS

Cost, Revenue, and Profit Maximization (pages 127–131)

- Four important measures of cost exist: total cost, which is the sum of fixed cost and variable cost, and marginal cost, which is the increase in total cost that stems from producing one additional unit of output.
- The mix of variable and fixed costs that a business faces affects the way the business operates.
- The key measure of revenue is **marginal revenue**, which is the change in total revenue when one more unit of output is sold.
- The **profit-maximizing quantity of output** occurs when marginal cost is exactly equal to **marginal revenue.** Other quantities of output may yield the same profit, but none yield more.

Chapter 5 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 5—Self-Check Quizzes to prepare for the chapter test.



Identifying Key Terms

On a separate sheet of paper, write the letter of the key term that best matches each definition below.

- a. depreciation
- g. production function h. profit-maximizing
- b. diminishing returnsc. fixed cost
- i. total cost
- d. marginal analysis
- j. variable cost
- e. marginal product
- f. marginal revenue
- k. overheadl. total product
- 1. a production cost that does not change as total business output changes
- **2.** decision making that compares the additional costs with the additional benefits of an action
- 3. associated with Stage II of production
- **4.** a production cost that changes when output changes
- **5.** a graphical representation of the theory of production
- 6. the additional output produced when one additional unit of input is added
- 7. change in total revenue from the sale of one additional unit of output
- 8. the gradual wearing out of capital goods
- 9. the sum of variable and fixed costs
- 10. when marginal revenue equals marginal cost
- **11.** total output produced by a firm
- 12. total fixed costs

Reviewing the Facts

Section 1 (pages 113–120)

- 1. Describe what is meant by supply.
- **2. Distinguish** between the individual supply curve and the market supply curve.
- **3. Explain** what is meant by a change in quantity supplied.
- 4. Identify the factors that cause a change in supply.

Section 2 (pages 122–125)

- 5. Describe the Law of Variable Proportions.
- **6. Explain** the difference between total product and marginal product.
- 7. **Identify** the three stages of production.

Section 3 (pages 127–131)

- **8. Describe** the relationship between marginal cost and total cost.
- 9. Identify four measures of cost.
- 10. Describe one practical application of cost principles.

Thinking Critically

CONTENTS

1. Making Comparisons Create a chart like the one below to help you explain how supply differs from demand.



- **2. Making Generalizations** Why might production functions tend to differ from one firm to another?
- **3. Understanding Cause and Effect** Explain why e-commerce reduces fixed costs.

Chapter 5 Assessment and Activities

Applying Economic Concepts

- 1. **Supply** According to the Law of Supply, what will happen to the number of products a firm offers for sale when prices go down? What will happen to the cost of additional units of production when a firm starts having diminishing returns? What will happen to the number of products a firm will offer for sale if its cost of production increases while prices remain the same?
- **2. Marginal Analysis** Give an example of a recent decision you made in which you used the tools of marginal analysis.

Math Practice

Create a supply schedule and a supply graph that shows the following information: American automakers are willing to sell 200,000 cars per year when the price of a car is \$6,000. They are willing to sell 400,000 when the price is \$12,000, and 600,000 at a price of \$18,000.

Thinking Like an Economist

Label the following actions according to their placement in the stages of production: (a) After many hours of studying, you are forgetting some of the material you learned earlier. (b) You are studying for a test and learning rapidly. (c) After a few hours, you are still learning but not as fast as before.

Technology Skill

Using a Database For one week, record every service or job you perform for anyone else. Organize the services and the amount of time spent on each into two columns: Paid Work and Unpaid Work. Use this information to help you build an "employment" database.

1. Define and name the fields in your database. The following can be used as examples:

Field Name	Field Type
Job/Service	Text
Employer's Name	Text
Employer's Phone	Number
Hourly Wage/Fee	Number
Hours Worked	Number

- 2. Save the database.
- **3.** Change field size as needed so that all information in each field is visible.
- **4.** Use the speller, proofread, and preview the database. Save the database again.
- 5. Print your database while in list view.

Building Skills

Outlining On a separate sheet of paper, add supporting details to the outline of Section 2 below.

I. Law of Variable Proportions
Α.
1.
2.
В.
1.
2.
II. The Production Function
Α.
1.
2.
В.
1.
2.
III. Three Stages of Production
А.
В.
С.
Practice and assess key social studies skills with

Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook, Level 2.*

CONTENTS





Prices and Decision Making

6

Economics & You

What factors do you consider when you need to make a decision to buy something? Price may be one of the most important factors of all. In this chapter, you will learn how price serves as a signal to both buyers and sellers. To learn more about the effect of supply and demand on prices, view the Chapter 12 video lesson:

The Price System at Work



Chapter Overview Visit the Economics: Principles and Practices Web site at epp.glencoe.com and click on Chapter 6-Chapter Overviews to preview chapter information.

Prices for products in a market economy are determined by the interaction of supply and demand.

Spinach Feta

\$5.25





CLICK HERE

CONTENTS

Prices as Signals

SECTION 1

Study Guide

Main Idea

Competitive markets and prices are important to capitalism.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by providing examples from your own experience that show how the price system provides for freedom of choice.



Cover Story

Cuban Fans Left Out of O's Game

HAVANA—Cuban baseball fans expressed dismay Thursday that attendance at Sunday's highly

anticipated exhibition game with the Baltimore Orioles would be by invitation only.

Only Cubans invited by the Communist Party or trade unions will be allowed to attend the game with the Orioles,



Off-the-field controversy overshadowed the game.

the first Major League team to play here since Fidel Castro came to power in 1959....

Baseball fans here made no secret of their distress.

At Havana's Esquino Caliente (Hot Corner), . . . (fans) complained that "90% of the people who got the invitations don't know baseball. The real fans are the people who deserve the seats."

-USA Today, March 26, 1999

ONTENTS

Kev Terms

price, rationing, ration coupon, rebate

Objectives

After studying this section, you will be able to:

- 1. Explain how prices act as signals.
- 2. Describe the advantages of using prices as a way to allocate economic products.
- 3. Understand the difficulty of allocating scarce goods and services without using prices.

Applying Economic Concepts

Rationing Have you and your friends ever tried to share something—a candy bar, cake, or pizza—when there really wasn't enough to go around? Read to find out about different ways to deal with making allocations.

ife is full of signals that help us make decisions. For example, when we pull up to an intersection, we look to see if the traffic light is green, vellow, or red. We look at the other cars to see if any have their blinkers on, and in this way receive signals from other drivers regarding their intentions to turn. Doctors even tell us that pain is a signal that something is wrong with our body and may need attention. But have you ever thought about the signals that help us make our everyday economic decisions?

It turns out that something as simple as a **price**-the monetary value of a product as established by supply and demand-is a signal that helps us make our economic decisions. Prices communicate information and provide incentives to buyers and sellers. High prices are signals for producers to produce more and for buyers to buy less. Low prices are signals for producers to produce less and for buyers to buy more.

Advantages of Prices

Prices serve as a link between producers and consumers. In doing so, they help decide the three basic WHAT, HOW, and FOR WHOM questions all societies face. Without

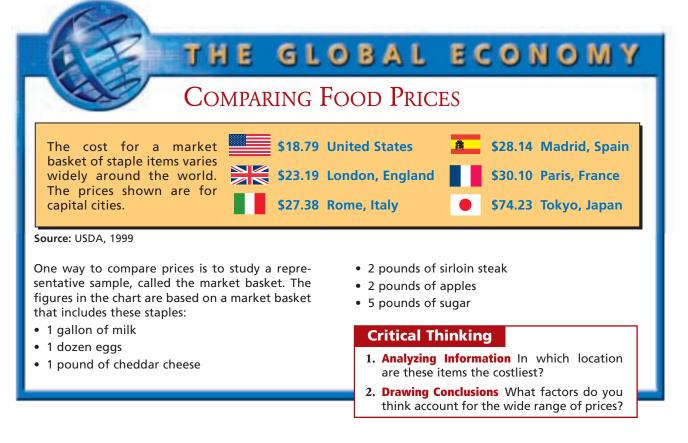
CHAPTER 6: PRICES AND DECISION MAKING 137

prices, the economy would not run as smoothly, and decisions about allocating goods and services would have to be made some other way. Prices perform the allocation function very well for the following reasons.

First, prices in a competitive market economy are neutral because they favor neither the producer nor the consumer. This is because prices are the result of competition between buyers and sellers and, in this way, represent compromises that both sides can live with. The more competitive the market, the more efficient the price adjustment process.

Second, prices in a market economy are flexible. Unforeseen events such as natural disasters and war affect the prices of many items. Buyers and sellers react to the new level of prices and adjust their consumption and production accordingly. Before long, the system functions as smoothly again as it had before. The ability of the price system to absorb unexpected "shocks" is one of the strengths of a market economy. Price flexibility also allows the market economy to accommodate change. The development of the personal computer provides an example. The early personal computers were relatively scarce and expensive, which attracted new producers. The resulting competition, along with advances in technology and production methods, soon drove prices lower, which attracted more consumers. More computers were needed to meet the demand, which brought more producers into the market. This new round of competition lowered prices even more, which attracted even more buyers. Consequently, a major innovation—the computer—entered the economy with the help of the price system and without the involvement of government or one of its bureaucracies.

Third, prices have no cost of administration. Competitive markets tend to find their own prices without outside help or interference. No bureaucrats need to be hired, no committees formed, no laws passed, or other decisions made. Even when prices adjust from one level to another, the change is usually so gradual that people hardly notice.



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Finally, prices are something that we have known about all our lives, from the time we were old enough to ask our parents to buy us something to the age where we were old enough to buy it ourselves. As a result, prices are familiar and easily understood. There is no ambiguity over a price—if something costs \$1.99, then we know exactly what we have to pay for it. This allows people to make decisions quickly and efficiently, with a minimum of time and effort.

Allocations Without Prices

Prices are important because they help us make the everyday economic decisions that allocate scarce resources and the products made from them. But what would life be like without a price system?

How would a car dealer allocate a limited supply of sports cars? Would intelligence, or perhaps good looks, or even political connections, determine who could get a car?

These criteria may seem far-fetched, but they are used in many parts of the world today, especially in countries with command economies, such as Cuba. After all, the local baseball fans did not get to see the exhibition game with the Baltimore Orioles in Havana. Instead, the seats were reserved for Communist Party and trade union members.

Without prices, another system must be used to decide who gets what. One method is **rationing**-a system under which an agency such as government decides everyone's "fair" share. Under such a system, people receive a **ration coupon**, a ticket or a receipt that entitles the holder to obtain a certain amount of a product. Rationing is used in many societies today, and it has been widely used during wartime, but it can lead to problems.

The Problem of Fairness

The first problem with rationing is that almost everyone feels his or her share is too small. During **Prices**



Advantages When energy prices rose, demand for luxury cars fell, while demand for smaller, more fuel-efficient autos jumped. *Why are prices considered neutral?*

the oil crisis of the early 1970s, for example, the government made plans for, but never implemented, a gas rationing program. One of the major problems with the program was determining how to allocate the gas rationing coupons. Any number of ways to allocate the gas coupons were formulated, but the issue of fairness was never resolved.

High Administrative Cost

A second problem is the cost. Someone has to pay for printing the coupons and the salaries of the people who distribute them. In addition, no matter how much care is taken, some coupons will be stolen, sold, or counterfeited and used to acquire a product intended for someone else.

Diminishing Incentive

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A third problem is that rationing has a negative impact on people's incentive to work and produce. Suppose that authorities went ahead with a rationing system and that you were given a certain number of coupons. How would this affect your incentive to work? If you could not get more coupons by working harder, and if you got the same amount of coupons if you worked less, you certainly would lose some of your incentive to work.

Nonprice allocation mechanisms, such as rationing, raise issues that do not occur under a price allocation system. As long as we have prices, goods can be allocated through a system that is neutral, flexible, efficient, and easily understood by all.

Prices as a System

Because of the many difficulties with nonprice allocation systems, economists overwhelmingly favor the price system. In fact, prices do more than help individuals in specific markets make decisions: they also serve as signals that help allocate resources between markets.

Consider the way in which higher oil prices affected producer and consumer decisions when the price of oil went from \$5 to over \$40 a barrel in the 1970s. Because the demand for oil is basically inelastic, people spent a greater part of their income on energy. Higher energy costs left them with less to spend elsewhere.

The market for full-size automobiles was one of the first to feel the effects. Because most large cars got poor gas mileage, people bought fewer large cars and more smaller ones, leaving dealerships with huge inventories of gas guzzlers.

At first, automakers thought the increase in gas prices would be temporary, so they were reluctant to switch over to smaller, more fuel-efficient models. As time went on, however, the surplus of unsold cars remained. To move their inventories, some manufacturers began to offer a **rebate**–a partial refund of the original price of the product. The rebate was the same as a temporary price reduction, because consumers were offered \$500, \$600, and even \$1,000 back on each new car they bought.

Finally, automakers began reducing their production of large cars. They closed plants, laid off workers, and started to change to small car production. Many of the automobile workers who lost their jobs eventually found new ones in other industries. The result of higher prices in the international oil market, then, was a shift of productive resources out of the large car market into other markets. Although the process was a painful one for many in the industry, it was natural and necessary for a market economy.

In the end, prices do more than convey information to buyers and sellers in a market-they also help buyers and sellers allocate resources between markets. This is why economists think of prices as a "system"-part of an informational network-that links all markets in the economy.

Section 1 Assessment

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 137, describe how price affects decisions that consumers make.
- Key Terms Define price, rationing, ration coupon, rebate.
- 3. Describe how producers and consumers react to prices.
- 4. List the advantages of using prices to distribute economic products.
- **5. Explain** the difficulties of allocating goods and services without a price system.

Applying Economic Concepts

6. Rationing From your own experience, describe a situation that required some form of rationing. What criteria were used to allocate the good or service, and what were some of the problems with each of the criteria?

Critical Thinking

CONTENTS

7. Understanding Cause and Effect List five items you would like to buy. How does the price of each item affect your decision to allocate your scarce resources—your money and your time? Explain.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2. Profiles Economics

Society and Economics: Gary Becker

Gary Stanley Becker is a professor of economics at the prestigious University of Chicago. Becker's work? The pioneering application of *economic* analysis to *social* problems such as crime, discrimination, and drug abuse. For his unique insight, Becker was awarded the Nobel Prize in economics in 1992.

Professor Becker views individuals as rational decision makers. People, he says, make life decisions largely in the economic terms of self-interest and the incentives of the market. He argues that viewing individual decisions in this way-as choices based on costs and benefits-helps explain individual human behaviors and their societal results. Becker offered an example of a life choice based on economic thinking: "The number of children a couple has depends on the costs and benefits of child rearing. . . . [C]ouples tend to have fewer children when the wife works and has a better-paying job, when subsidies and tax deductions for dependents are smaller, when the cost of educating and training children rises, and so forth."

Monetarism Man: Milton Friedman

Milton Friedman is one of the best-known economists working today. His popular column in *Newsweek* helped make his a household name.

Friedman's writings have covered an extraordinary variety of topics, many of which were put forth in his book, *Capitalism and Freedom* (1962), which has become a standard. Friedman voiced opposition to such popular policies as agricultural subsidies, price controls, and a minimum wage.

Friedman has been most influential as an unwavering supporter of monetarism—the theory that the quantity of money in an economy is a critical factor in the overall

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state of the economy. The key to his argument is that changes in the rate of growth of the money supply have varying and unpredictable lags, which makes fine-tuning the economy virtually impossible. Friedman claims that the Federal Reserve System should let the money supply grow at a constant rate to avoid destabilizing the economy. For his theories on economic stabilization, Friedman was awarded the Nobel Prize in economics in 1976.

Examining the Profiles

- 1. Making Comparisons How are Becker's and Friedman's ideas similar and different?
- 2. For Further Research Read an article or book by Becker or Friedman. Present a summary of the work to the class.

The Price System at Work

SECTION 2

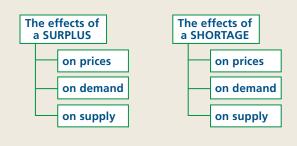
Study Guide

Main Idea

Changes in demand and supply cause prices to change.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to this, showing how a surplus and shortage affect prices, demand, and supply.



Cover Story

Engineering Extra Tickets

If Massachusetts Institute of Technology students don't know the law of supply and demand coming into

school, they sure have it down by graduation. Just ask Steve Shapiro.

Like all graduating seniors, he was allotted four free tickets to his June 4 commencement. But 11 relatives are planning to attend....

for him. . . .



UN Secretary-General Kofi Annan addresses MIT graduates.

attend.... Enter the Graduation Ticket Trading Center, a Web site set up by MIT's class of 1999 for seniors who want to buy or sell tickets to the ceremony....

It's clearly a seller's market. Most suppliers were looking for about \$100 a ticket, though one fellow had four tickets for anyone who would take a final exam

—USA Today, May 27, 1999

Key Terms

economic model, market equilibrium, surplus, shortage, equilibrium price

Objectives

After studying this section, you will be able to:

- 1. Understand how prices are determined in competitive markets.
- Explain how economic models can be used to predict and explain price changes.
- 3. Apply the concepts of elasticity to changes in prices.

Applying Economic Concepts

Equilibrium Price When something is at equilibrium, it tends to remain at rest. Read to find out what causes prices to reach, and then stay at, equilibrium.

ne of the most appealing features of a competitive market economy is that everyone who participates has a hand in determining prices. This is why economists consider prices to be neutral and impartial.

The process of establishing prices, as illustrated by the example of the Graduation Ticket Trading Center, is remarkable because buyers and sellers have exactly the opposite hopes and desires. Buyers want to find good buys at low prices. Sellers hope for high prices and large profits. Neither can get exactly what they want, so some adjustment is necessary to reach a compromise.

The Price Adjustment Process

Because transactions in a market economy are voluntary, the compromise that eventually takes place must be to the benefit of both parties, or the compromise would not occur in the first place.

An Economic Model

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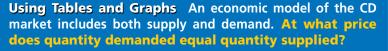
To show how the adjustment process takes place, we use the supply and demand illustration shown in **Figure 6.1**–one of the more popular

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"tools" used by economists. The figure illustrates an **economic model**–a set of assumptions that can be listed in a table, illustrated with a graph, or even stated algebraically–to help analyze behavior and predict outcomes.

The data in the figure is already familiar to you. The numbers in the first two columns in the schedule and the market demand curve **DD** are from **Figure 4.2** on page 92. The information in the schedule and curve reflects the Law of Demand, showing that consumers will buy more at lower prices and less at higher prices.

ECO							
AT A	ECONOMICS AT A GLANCE Figure 6.1						
	A Model of the CD Market						
A Market Demand and Supply Schedules							
	Price	Quantity Demanded	Quantity Supplied	Surplus/ Shortage			
	\$30 25	0 1	13 11	13 10			
	20 15	3 6	9 6	6 0			
	10 5	10 15	3 0	-7 -15			
B Market Demand and Supply Curves							
\$30 P S							
25							
g 15							
9 15 10 10 10 10 10 10 10 10 10 10 10 10 10							
	5 S			D			
	0 1 3 6 9 1011 13 15 Quantity						



The numbers in the first and third column of the schedule and the market supply curve **SS** come from **Figure 5.2** on page 117. This information reflects the Law of Supply, showing that suppliers will offer more for sale at higher prices and less at lower ones.

Separately, each of these graphs represents the demand and the supply sides of the market. When they are combined, as in **Panel B** of **Figure 6.1**, we have a complete model of the market, which will allow us to analyze how the interaction of buyers and sellers results in a price that is agreeable to all.

Market Equilibrium

In a competitive market, the adjustment process moves toward **market equilibrium**—a situation in which prices are relatively stable, and the quantity of goods or services supplied is equal to the quantity demanded. In **Figure 6.1**, equilibrium is reached when the price is \$15 and the quantity supplied is six units.

How does the market find this equilibrium on its own? Why did the market settle at \$15, rather than \$20, or \$10, or at some other price? To answer these questions, we have to examine the reactions of buyers and sellers to market prices. In addition, we assume that neither knows the final price, so we'll have to find it using trial and error-like the MIT seniors did when they introduced their Graduation Ticket Trading Center Web site described in the cover story.

Surplus

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We start on Day 1 with sellers thinking that the price for musical CDs will be \$25. If you examine the supply schedule and curve in **Figure 6.1**, you see that suppliers will produce 11 units for sale at that price. However, the suppliers soon discover that buyers will purchase only one CD at a price of \$25, leaving a surplus of 10.



Price Determination



Price Adjustment Bicycle shops and other businesses often price certain goods below cost to attract customers. What can occur if the price for a given product is too low?

A **surplus** is a situation in which the quantity supplied is greater than the quantity demanded at a given price. The 10 unit surplus at the end of Day 1 is shown in column four of **Panel A** in **Figure 6.1** as the difference between the quantity supplied and the quantity demanded at the \$25 price. It is also shown graphically in **Panel A** of **Figure 6.2** as the horizontal distance between the supply and demand curves.

This surplus shows up as unsold products on suppliers' shelves, and it begins to take up space in the suppliers' warehouses. Sellers now know that \$25 is too high, and they know that they have to lower their price if they want to attract more buyers and dispose of the surplus.

Therefore, the price tends to go down as a result of the surplus. The model cannot tell us how far the price will go down, but we can reasonably assume that the price will go down only a little if the surplus is small, and much more if the surplus is larger.

Shortage

Suppliers are more cautious on Day 2, and so they anticipate a much lower price of \$10. At that price, the quantity they are willing to supply changes to three compact discs. However, as **Panel B** in **Figure 6.2** shows, this price turns out to be too low. At a market price of \$10, only three CDs are supplied and 10 are demanded-leaving a shortage of seven CDs.

A **shortage** is a situation in which the quantity demanded is greater than the quantity supplied at a given price. When a shortage happens, producers have no more CDs to sell, and they end the day wishing that they had charged higher prices for their products.

As a result, both the price and the quantity supplied will go up in the next trading period. While our model does not show exactly how much the price will go up, we can assume that the next price will be less than \$25, which we already know is too high.

Equilibrium Price

If the new price is \$20 on Day 3, the result will be the surplus of six CDs shown in **Panel C** of **Figure 6.2.** This surplus will cause the price to drop, but probably not below \$10, which already proved to be too low. If the price drops to \$15, as shown in **Panel D** in **Figure 6.2**, the market will have found its equilibrium price. The **equilibrium price** is the price that "clears the market" by leaving neither a surplus nor a shortage at the end of the trading period.

While our economic model of the market cannot show exactly how long it will take to reach equilibrium, equilibrium will be reached because of the pressure that temporary surpluses and shortages put on prices. Whenever the price is set too high, the surplus will tend to force it down. Whenever the price is set too low, the shortage

CYBERNOMICS SPOTLIGHT

The Internet and Prices

When you buy a \$100 sweater at a stylish boutique, most of the money you pay goes to the distribution channels. The Internet lessens the need for most go-betweens, thus it eliminates most distribution costs and increases the possible savings for both the consumer and the manufacturer.



Figure 6.2

ECONOMICS AT A GLANCE

0

1

3

6

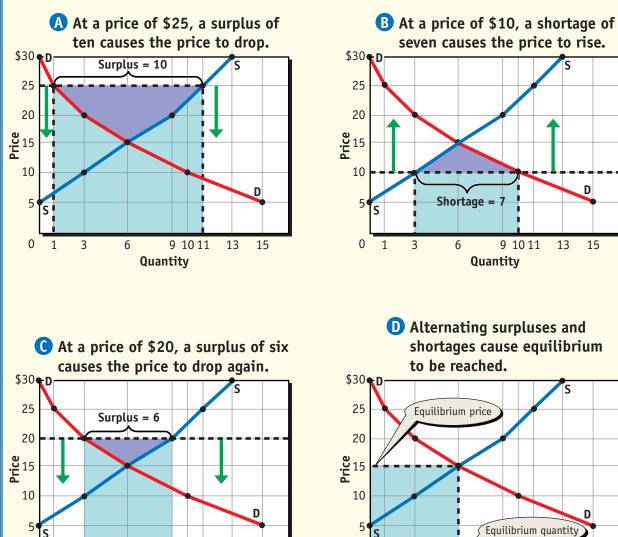
9 10 11

Quantity

13

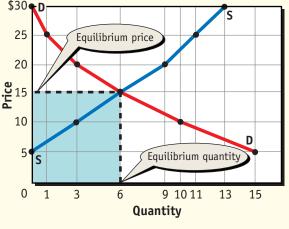
15

Dynamics of the Price Adjustment Process



seven causes the price to rise. D Shortage = 7 9 10 11 3 6 13 15 Quantity

> **D** Alternating surpluses and shortages cause equilibrium to be reached.



Using Graphs In a competitive market, prices are drawn toward equilibrium as a result of the constant pressures from temporary surpluses and shortages. Panel A shows that a price of \$25 will create a surplus. A surplus is also created on Day 3, as shown in Panel C. Why did a surplus occur on Day 1?

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will tend to force it up. As a result, the market tends to seek its own equilibrium.

When the equilibrium price of \$15 is reached, it will tend to remain there because the quantity supplied is exactly equal to the quantity demanded. Something could come along to disturb the equilibrium, but then new shortages or new surpluses, or both, would appear to push the price to its new equilibrium level.

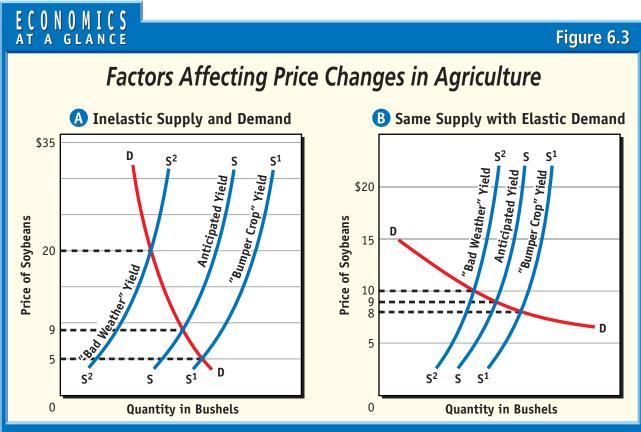
Explaining and Predicting Prices

Economists use their market models to explain how the world around us works and to predict how certain events such as changes in prices might occur. A change in price is normally the result of a change in supply, a change in demand, or changes in both. Elasticity of demand is also important when predicting prices.

Changes in Supply

Consider the case of agriculture, which often experiences wide swings in prices from one year to the next. A farmer may keep up with all the latest developments and have the best advice experts can offer, but the farmer never can be sure what price to expect for the crop. A soybean farmer may put in 500 acres of beans, expecting a price of \$9 a bushel. The farmer knows, however, that the actual price may end up being anywhere from \$5 to \$20.

Weather is one of the main reasons for the variation in agricultural prices. If it rains too much after



Using Graphs Diagram A shows that larger price changes occur when both the supply and demand curves are highly inelastic. When the demand curve is more elastic, as in Diagram B, price fluctuations are smaller. What happens to the slope of a supply curve when it becomes more elastic?



the farmer plants the seeds, the seeds may rot or be washed away and the farmer must replant. If it rains too little, the seeds may not sprout. Even if the weather is perfect during the growing season, rain can still prevent the harvest from being gathered. The weather, then, often causes a change in supply.

The result, shown in **Panel A** of **Figure 6.3**, is that the supply curve is likely to shift, causing the price to go up or down. At the beginning of the season, the farmer may expect supply to look like curve SS. If a bumper, or record, crop is harvested, however, supply may look like **S**¹**S**¹. If bad weather strikes, supply may look like S²S². Because both demand and supply for food is inelastic, a small change in supply is enough to cause a large change in the price.

Importance of Elasticity

What would happen to prices if the demand for soybeans were highly elastic, as in Panel B of Figure 6.3? The results would be quite different. Because this demand curve is much more elastic, the prices would only range from \$8 to \$10 a bushel instead of from \$5 to \$20 a bushel.

Economists consider elasticity of demand whenever a change in supply occurs. When a given change in supply is coupled with an inelastic demand curve, as in **Panel A** of Figure 6.3, price changes dramatically. When the same change in supply is coupled with a very elastic demand curve, such as that in Panel B of Figure 6.3, the change in price is much smaller.

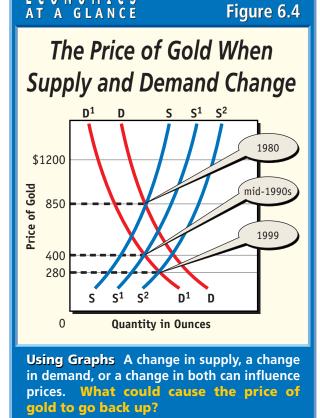
In general, price changes in any given market are likely to be wider if both supply and demand are inelastic. The same price changes are likely to be less volatile if both curves are elastic.

Changes in Demand

A change in demand, like a change in supply, can also affect the price of a good or service. All of the factors we examined in Chapter 4-changes in income, tastes, prices of related products, expectations, and the number of consumersaffect the market demand for goods and services. One example is the demand for gold.

Figure 6.4 shows why gold prices have changed so dramatically over a 20-year period. In 1980, rising prices, uncertain economic conditions, and other factors created a high demand for gold. When

ECONOMI AT A GLANCE



this demand, shown as **DD** in the figure, was combined with a relatively tight supply, **SS**, the price of gold reached \$850 per ounce.

By the mid-1990s, economic fears declined and people lost some of their desire for gold. This had the effect of shifting the demand curve to **D**¹**D**¹.

Meanwhile, gold producers reacted to the skyhigh price in a predictable manner-they reopened mines that had been closed because of low gold prices and resumed production. This had the effect of increasing the supply of gold to S¹S¹. The combination of increased supply and reduced demand drove the price of gold down to the \$400 level.

In early 1999, more bad news hit the gold market. The Bank of England announced plans to sell about 400 tons of gold, or slightly more than half of its official gold stock, causing the supply curve to shift to S²S² and the price of gold to reach a new low of \$280 an ounce.

However the price of gold fluctuates, one thing is certain-everything depends on the demand and

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the supply. Whenever economic conditions or political instability threatens, people tend to increase their demand for gold and drive the price up. Whenever the supply of gold increases dramatically—as when a major holder of gold like the Bank of England sells half of its gold holdings—the supply of gold increases, driving the price down.

The Competitive Price Theory

The theory of competitive pricing represents a set of ideal conditions and outcomes. The theory is important because it serves as a model by which to measure the performance of other, less competitive market structures. Even so, many markets come reasonably close to the ideal.

The prices of some foods such as milk, flour, bread, and many other items in your community will be relatively similar from one store to the next. When the prices of these items vary, it may be because advertisers have convinced some people that its brand is slightly better than others. Another reason may be that buyers are not well informed. The price of gasoline, for example, is usually higher at stations near an expressway because gas station owners know that travelers do not know the location of lower cost stations in an unfamiliar area.



Fortunately, markets only have to be reasonably competitive-rather than perfect-to be useful. The great advantage of competitive markets is that they allocate resources efficiently. As sellers compete to meet consumer demands, they are forced to lower the price of their goods, which in turn encourages them to keep their costs down. At the same time, competition among buyers helps prevent prices from falling too far.

In the final analysis, the market economy is one that "runs itself." There is no need for a bureaucracy, planning commission, or other agency to set prices because the market tends to find its own equilibrium. In addition, the three basic economic questions of WHAT, HOW, and FOR WHOM to produce are decided by the participants—the buyers and sellers—in the market.

Section 2 Assessment

Checking for Understanding

- **1. Main Idea** Explain how a change in demand can affect prices.
- 2. **Key Terms** Define economic model, market equilibrium, surplus, shortage, equilibrium price.
- **3. Describe** how prices are determined in a competitive market.
- 4. Explain why economic models are useful.
- Explain how different cases of demand and supply elasticity are related to price changes.

Applying Economic Concepts

6. Equilibrium Price Choose one good or service—for example, unleaded gasoline, a gallon of milk, a local newspaper, or a haircut. Visit at least five stores that sell the product, and note its price at each location. What do the individual prices tell you about the equilibrium price for the good or service?

Critical Thinking

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- 7. Understanding Cause and Effect What signal does a high price send to buyers and sellers?
- 8. Making Inferences What do merchants usually do to sell items that are overstocked? What does this tell you about the equilibrium price for the product?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CRITICAL THINKING

Skill

Synthesizing Information

Synthesizing information involves integrating information from two or more sources. The ability to synthesize, or combine, information is important because information gained from one source often sheds new light upon other information.

Learning the Skill

To synthesize information, follow these steps:

- Analyze each source separately to understand its meaning.
- Determine what information each source adds to the subject.
- Identify points of agreement and disagreement between the sources. Ask: Can Source A give me new information or new ways of thinking about Source B?
- Find relationships between the information in the sources.

Practicing the Skill

Study the sources below, then answer the questions that follow.

Source A

A common decision consumers make is whether to borrow money for a new car, or to pay cash for a less expensive used one. Studies show that more than 80 percent of all new cars sold in any given year in the United States are financed. There are advantages to owning a new car, but there are also significant costs consumers should keep in mind when they make this decision.

The interest a consumer pays on a new car loan is a significant part of its cost. Insuring a new car costs more than insuring a used car because new cars are more likely to be stolen or vandalized. In addition, there is a higher sales tax to pay for a more costly new car.

Source B

Most Americans are accustomed to borrowing and buying on credit. At times, especially when buying such expensive consumer durables as automobiles and fine furniture, they consider borrowing to be necessary.

In a sense, people feel forced to buy items on credit because they believe they need them immediately. They do not want Because people have limited resources, most people have to borrow to buy a car.

to wait. Of course, consumers are not really "forced" to buy most goods and services on credit. They could decide instead to save the money needed to make their purchases.

- 1. What is the main subject of each excerpt?
- **2.** What kind of information does Source A add to this subject?
- **3.** What kind of information does Source B add to this subject?
- 4. Does Source B support or contradict Source A? Explain.
- 5. Summarize what you have learned from both sources.

Application Activity

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Find two sources of information on a topic dealing with the price of goods. Write a short report answering these questions: What are the main ideas in the sources? How does each source add to your understanding of the topic? Do the sources support or contradict each other?

> **Practice** and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook, Level 2.*



Social Goals vs. Market Efficiency

SECTION 3

Study Guide

Main Idea

To achieve one or more of its social goals, government sometimes sets prices.

Reading Strategy

Graphic Organizer As you read the section, complete a cause-and-effect chart similar to the one below by explaining how price ceilings affect quantity supplied.



Key Terms

price ceiling, minimum wage, price floor, target price, nonrecourse loan, deficiency payment

Objectives

CONTENTS

After studying this section, you will be able to:

- 1. **Describe** the consequence of having a fixed price in a market.
- 2. Explain how loan supports and deficiency payments work.
- 3. Understand what is meant when "markets talk."

Applying Economic Concepts

Price Floor Chances are that you have worked for the minimum wage at some time in your life. Read to see why this is an example of a price floor.

Cover Story



Congress Sews a Safety Net for Farmers

Three years after a major farm bill ended the nation's decades-old program of agrisupports, price cultural Congress is considering beefing up safety nets to aid farm-

Various farmer aid proposals considered

ers around the country hit by dramatically low crop prices, shrinking exports, and falling incomes.

But the proposed solutions-ranging from an expanded crop-insurance program to a return to commodity price supports-are both costly and tend to divide market-oriented Republicans Democrats who favor subsidies.

Moreover, such remedies take time. So, as financially strapped farmers begin a new planting season, Congress could end up passing another emergency aid package this year like the more than \$5 billion approved for farmers last October. . . .

-The Christian Science Monitor, March 12, 1999

n Chapter 2 we examined seven broad economic and social goals that most people seem to share. We also observed that these goals. while commendable, were sometimes in conflict with one another. These goals were also partially responsible for the increased role that government plays in our economy.

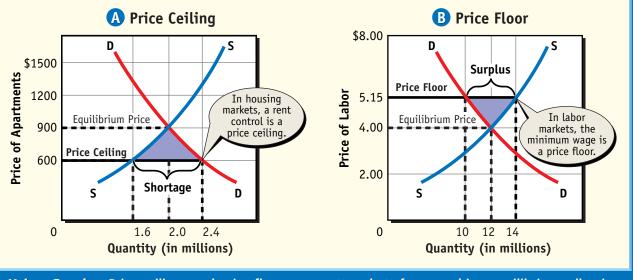
The goals most compatible with a market economy are freedom, efficiency, full employment, price stability, and economic growth. Attempts to achieve the other two goals-equity and security-usually require policies like the "safety net for farmers" in the cover story that distort market outcomes. In other words, we may have to give up a little efficiency and freedom in order to achieve equity and security.

Whether this is good or bad often depends on a person's perspective. After all, the person who receives a subsidy is more likely to support it than is the taxpayer who pays for it. In general, however, it is usually wise to evaluate each situation on its own merits, as the benefits of a program may well exceed the costs. What is common to all of these situations, however, is that the outcomes can be achieved only at the cost of interfering with the market.

ECONOMICS At A GLANCE

Figure 6.5

Distorting Market Outcomes with Price Ceilings and Price Floors



Using Graphs Price ceilings and price floors prevent markets from reaching equilibrium, allowing the resulting shortages and surpluses to become permanent. Why does government sometimes impose price ceilings and floors on the market?

CONTENTS

Distorting Market Outcomes

One of the common ways of achieving social goals involves setting prices at "socially desirable" levels. When this happens, prices are not allowed to adjust to their equilibrium levels, and the price system cannot transmit accurate information to other buyers and sellers in the market.

Price Ceilings

Some cities, especially New York City, have a long history of using rent controls to make housing more affordable. This is an example of a **price ceiling**, a maximum legal price that can be charged for a product.

The case of a price ceiling is shown in **Panel A** of **Figure 6.5**. Without the ceiling, the market establishes monthly rents at \$900, which is an equilibrium price because 2 million apartments

would be supplied and rented at that rate. If authorities think \$900 is too high, and if they want to achieve the social goals of equity and security for people who cannot afford these rents, they can establish, arbitrarily, a price ceiling at \$600 a month.

No doubt consumers would love the lower price and might demand 2.4 million apartments. Landlords, on the other hand, would try to convert some apartments to other uses, such as condos and office buildings that offer higher returns. Therefore, the supply might only reach 1.6 million apartments at \$600 per month, leaving a *permanent* shortage of 800,000 apartments.

Are consumers better off? Perhaps not. More than likely, the better apartments will be converted to condos or offices—leaving the poorer ones to be rented. In addition, 800,000 people are now unhappy because they cannot get an apartment, although they are willing and able to pay for one. Prices no longer allocate apartments. Instead, landlords resort to long waiting lists or other nonprice criteria such as excluding children and pets to discourage applicants.

Rent controls freeze a landlord's total revenue and threaten his or her profits. As a result, the landlord tries to lower costs by providing the absolute minimum upkeep, thereby protecting profits. Landlords may have no incentive at all to add additional units if they feel rents are too low. Some apartment buildings may even be torn down to make way for shopping centers, factories, or high-rise office buildings.

The price ceiling, like any other price, affects the allocation of resources-but not in the way intended. The attempt to limit rents makes some people happy, until their buildings begin to deteriorate. Others, including landlords and potential renters on waiting lists, are unhappy from the beginning. Finally, some scarce resources-those used to build and maintain apartments-are slowly shifted out of the rental market.

Careers



Sales Clerk

The primary purpose of a sales clerk is to interest customers in the merchandise. How successful a business is depends in large part on how efficient and courteous its sales force is.

The Work

Sales clerks' duties include stocking shelves, taking inventory, and dealing directly with customers. Clerks must be able to demonstrate the product, record the sales transaction, and, if necessary, arrange for the product's safe delivery. For those selling complex items such as computers or automobiles, knowing special features and what they can do is essential.

Qualifications

Ability to work under pressure is helpful. Other required skills include a strong working knowledge of business math for calculating prices and taxes, and the ability to communicate clearly and tactfully.

Price Floors

Other prices often are considered too low and so steps are taken to keep them higher. The **minimum wage**, the lowest legal wage that can be paid to most workers, is a case in point. The minimum wage is actually a **price floor**, or lowest legal price that can be paid for a good or service.

Panel B in Figure 6.5 uses a minimum wage of \$5.15 per hour as an illustration of a price floor. At this wage, the supply curve shows that 14 million people would want to offer their services. According to the demand curve for labor, however, only 10 million would be hired-leaving a surplus of 4 million workers.

The figure also shows that without the minimum wage, the actual demand and supply of labor would establish an equilibrium price of \$4.00 per hour. At this wage, 12 million workers would offer their services and the same number would be hired—which means that there would be neither a shortage nor a surplus in the labor market.

Some economists argue that the minimum wage actually increases the number of people who do not have jobs because employers hire fewer workers. In the case of **Figure 6.5**, the number of people who lose jobs amounts to 2 million—the difference between the 12 million who would have worked at the equilibrium price and the 10 million who actually work at the higher wage of \$5.15 per hour.

Is the minimum wage good or bad for the economy? Certainly the minimum wage is not as efficient as a wage set by supply and demand, but not all decisions in our economy are made on the basis of efficiency. The basic argument in favor of the minimum wage is that it raises poor people's incomes. A federal minimum wage is evidence that the small measure of equity provided by the minimum wage—with equity being one of our seven major economic and social goals—is preferred to the loss of efficiency.

Finally, some people argue that the minimum wage is irrelevant anyway because it is actually lower than the lowest wages paid in many areas. Consider the wages in your area. Do you think that your employer would pay you less if he or she were allowed to do so? Your response will provide a partial answer to the question.

CONTENTS

Price Stabilization



Loan Supports The government plays a role in helping farmers market their products and stabilizing agricultural prices. *What problems did the program of loan supports create?*

Agricultural Price Supports

In the 1930s, the federal government established the Commodity Credit Corporation (CCC), an agency in the Department of Agriculture, to help stabilize agricultural prices. The stabilization took two basic forms—the first involved loan supports, and the second involved deficiency payments. Both made use of a **target price**, which is essentially a price floor for farm products.

Loan Supports

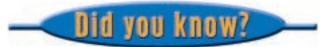
Under the loan support program, a farmer borrowed money from the CCC at the target price and pledged his or her crops as security in return. The farmer used the loan to plant, maintain, and harvest the crop. The farmer sold the crop in the market and used the proceeds to repay the CCC loan, or the farmer kept the proceeds of the loan and let the CCC take possession of the crop. Because the loan was a **nonrecourse loan**–a loan that carries neither a penalty nor further obligation to repay if not paid back–the farmer could get at least the target price for his or her crops.

Panel A in Figure 6.6 illustrates the CCC loan program using a \$4-per-bushel target price for wheat. In the end, the farmer received \$4 a bushel for each of the 10,000 bushels produced—with 8,000 sold in the market and the remaining 2,000 picked up by the CCC—for a total of \$40,000. Without the loan program, the farmer would have produced 9,000 bushels and then sold them at \$3 each for a total revenue of \$27,000.

Deficiency Payments

The CCC loan program created problems because the U.S. Department of Agriculture soon owned enormous stockpiles of food. Surplus wheat was stored in rented warehouses or on open ground. Surplus milk was made into cheese and stored in underground caves. Some food was given to the military, and other food was donated to public schools for use in "free lunch" programs. Still the surpluses persisted, leaving CCC officials to consider how they could support farm prices and still avoid holding large surpluses.

The solution was to have farmers sell their crops on the open market for the best price they could get and then have the CCC make up the difference with a deficiency payment. A **deficiency payment** is a

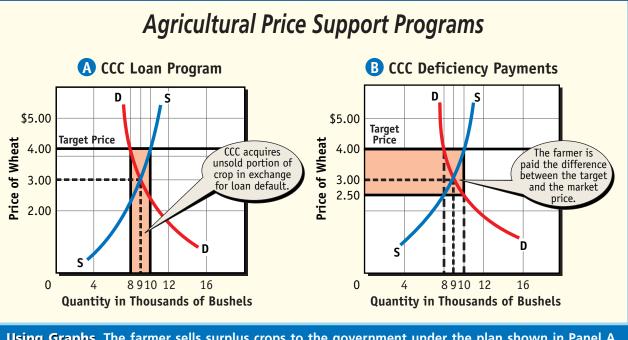


Gender Pricing Women often pay higher prices for haircuts, dry cleaning, and clothes than do men. Massachusetts found that women were charged up to \$2.50 more per dry cleaned item than men. Dry cleaners claimed that women's clothing was harder to press because the equipment was designed for men's shirts. Although some states have laws against gender-biased pricing, these laws are hard to enforce across the many industries.

ONTENTS

ECONOMICS At a glance

Figure 6.6



Using Graphs The farmer sells surplus crops to the government under the plan shown in Panel A. The farmer receives a payment equal to the difference between the target price and the prices the farmer received for the crops. What was the total payment the farmer received under the loan program? Under the deficiency payment program?

check sent to producers that makes up the difference between the actual market price and the target price.

Panel B in **Figure 6.6** illustrates the deficiency payment approach. Under this program, the farmer made \$25,000 by selling 10,000 bushels at \$2.50 each on the open market. Because this was \$1.50 below the target price of \$4.00 a bushel, the farmer received a deficiency payment of \$1.50, times 10,000 bushels, or the \$15,000 represented by the shaded area.

When the \$15,000 deficiency payment was added to the \$25,000 market sale, the farmer made \$40,000-the same as under the loan program. Under this program, however, the CCC does not have the political and economic problem of disposing of the surplus. Farmers liked this program and would have produced even more crops if they could. Instead, they had to promise the CCC that they would limit production. In many cases, aerial photographs were taken to verify that the acreage planted was within the limits of the agreement with the CCC.

Reforming Price Supports

In an effort to make agricultural output responsive to market forces, Congress passed the Federal Agricultural Improvement and Reform (FAIR) Act of 1996. Under this law, eligible producers of grains, cotton, and rice can enter into a seven-year program that allows them almost complete flexibility to plant any crop on any land. Other products, such as milk, sugar, fruits, and vegetables, are not affected.

Under FAIR, cash payments take the place of price supports and deficiency payments. Because these new payments have turned out to be as large as the ones they replaced, however, the overall cost of farm programs has not gone down. Instead, in 1998 a drop in worldwide food prices made things even worse for farmers. This, as we saw in the cover story, prompted Congress to pass a \$5 billion aid bill for farmers–with possibly more in the works.



When the program expires in the year 2002, farmers will cease to receive all payments. By then, farmers should have had enough experience with the laws of supply and demand to no longer need government help. If farm income is still down when the bill expires, Congress may decide to bring farm support back-thereby choosing the goal of economic security over efficiency.

When Markets Talk

Markets are impersonal mechanisms that bring buyers and sellers together. Although markets do not talk in the usual sense of the word, they do communicate in that they speak collectively for all of the buyers and sellers who trade in the markets. Markets are said to talk when prices in them move up or down significantly.

Suppose the federal government announced that it would raise personal income taxes and corporate taxes to pay off some of the federal debt. If investors thought this policy would not work or that other policies might be better, they might decide to sell some of their stocks and other investments for cash and gold. As the selling takes place, stock prices fall, and gold prices rise. In effect, the market would "talk"–voicing its disapproval of the new tax policy. In this example, individual investors made decisions on the likely outcome of the new policy and sold stocks for cash or gold. Together, their actions were enough to influence stock prices and to send a signal to the government that investors did not favor the policy. If investors' feelings were divided about the new policy, some would sell while others bought stocks. As a result, prices might not change, and the message would be that, as yet, the market has not made up its mind.

STANDARD &POOR'S INFOBYTE

Consumer Confidence A statistic called the Consumer Confidence Index attempts to gauge consumers' feelings about the current condition of the economy and their expectations about the economy's future direction. The index is weighted 60% in favor of expectations and 40% in favor of current conditions. Large movements in this index indicate or signal changes in consumer spending patterns.

Section 3 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 150, describe why price ceilings are often set.
- **2. Key Terms** Define price ceiling, minimum wage, price floor, target price, nonrecourse loan, deficiency payment.
- **3. Describe** two effects of having a fixed price other than the equilibrium price forced on a market.
- 4. Explain how loan supports and deficiency payments work.
- 5. Describe how markets speak collectively for buyers and sellers.

Applying Economic Concepts

6. Price Floor Would small businesses be more affected by a change in the minimum wage than large businesses? Explain your answer.

Critical Thinking

7. Understanding Cause and Effect The price of fresh fruit over the course of a year may go up or down by as much as 100 percent. Explain the causes for these changes in terms of changes in demand, changes in supply, and the elasticity of demand for fresh fruit.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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BusinessWeek

DECEMBER 21, 1998

Many considerations are involved in an individual's choice of jobs. These include not only whether and how much to work, but where to work. As you read this article, think about what influences affect labor demand. What influences affect labor mobility?

Doctors: Charting New Territory

Health officials have long bemoaned the fact that new doctors tend to choose to practice in large, relatively affluent communities, with the result that many smaller towns and rural areas are often undersup-

plied. Now, changes in the health-care market itself may be starting to cure the "maldistribution" of doctors.

According to a new RAND study, the growth of health-maintenance organizations is shifting the locales where new docs decide to practice. At the start of the 1990s, reports Jose J. Escarce of RAND, newly graduated general practitioners tended to locate in large metro areas where HMOs were well established, while new specialists chose metro areas regardless of HMO presence. By 1994, however, new generalists and

Newsclip

especially specialists tended to locate in metro areas with low HMO penetration.

Why is this happening? Noting that general practitioners are in high demand throughout the U.S., Escarce and his fellow researchers theorize that many are seeking to avoid HMOs and the cost-control pressures they impose on primary physicians. And new specialists may be relocating because HMOs have been particularly successful in curbing demand for their services.

The RAND study looked only at larger metro areas. But the results offer the hopeful prospect that continued HMO growth in such areas could result in more new docs hanging their shingles up in smaller cities and rural locations.

–Reprinted from December 21, 1998 issue of *Business Week*, by special permission, copyright © 1998 by The McGraw-Hill Companies, Inc.

Many physicians are relocating to rural areas. A major reason is avoiding costcontrol pressures that health-maintenance organizations place on them.

Examining the Newsclip

- **1. Sequencing Information** What trend does the RAND research show regarding doctors' choices of location?
- 2. Finding the Main Idea What theory do the researchers offer to support this relocation trend?
- **3. Understanding Cause and Effect** Do you think the theory is the best explanation for the trend? What other factors affect where doctors locate their practices?



Section 1

Prices as Signals (pages 137–140)

- **Prices** serve as signals to both producers and consumers. In doing so, they help decide the three basic WHAT, HOW, and FOR WHOM questions that all societies face.
- High prices are signals for businesses to produce more and for consumers to buy less. Low prices are signals for businesses to produce less and for consumers to buy more.
- Prices have the advantages of neutrality, flexibility, efficiency, and clarity.
- Other nonprice allocation methods such as **rationing** can be used. Under such a system, people receive **ration coupons**, which are similar to tickets or receipts that entitle the holder to purchase a certain amount of a product.
- Nonprice allocation systems suffer from problems regarding fairness, high administrative costs, and diminished incentives to work and produce.
- A market economy is made up of many different markets, and different prices prevail in each. A change in price in one market affects more than the allocation of resources in that market. It also affects the allocation of resources between markets.

Section 2

The Price System at Work

(pages 142-148)

- Economists often use an **economic model** to help analyze behavior and predict outcomes. Models of economic markets are often represented with supply and demand curves in order to examine the concept of **market equilibrium**, a situation in which prices are relatively stable, and the quantity of output supplied is equal to the quantity demanded.
- In a competitive market, prices are established by the forces of supply and demand. If the price is too

high, a temporary **surplus** appears until the price goes down. If the price is too low, a temporary shortage appears until the price rises. Eventually the market reaches the equilibrium price where there is neither a shortage nor a surplus.

- A change in price can be caused by a change in supply or a change in demand. The size of the price change is affected by the elasticity of both curves. The more elastic the curves, the smaller the price change; the less elastic the curves, the larger the price change.
- The theory of competitive pricing represents a set of ideal conditions and outcomes. The theory serves as a model by which to measure the per-

formance of other, less competitive markets. Because of this, absolutely pure competition is not needed for the theory of competitive pricing to be practical.

Section 3

CONTENTS

Social Goals vs. Market Efficiency (pages 150–155)

- Governments sometimes fix prices at levels above or below the equilibrium price to achieve the social goals of equity and security.
- If the fixed price is a **price ceiling**, as in the case of rent controls, a shortage usually appears for as long as the price remains fixed below the equilibrium price.
- Agricultural price supports were introduced during the 1930s to support farm incomes. **Nonrecourse loan** support programs allowed farmers to borrow against crops, and then keep the loan and forfeit the crop if market prices were low.
- Later, **deficiency payments** were used, supplying the farmer with a check that made up the difference between the **target price** and the actual price received for the product.

Chapter 6 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 6—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Write the key term that is an effect of the five causes stated below. Some causes may have more than one effect.

- a. rationing
- e. equilibrium price f. loss leader
- b. economic model
 - g. price ceiling
- c. surplus d. shortage
- h. price floor
- 1. **Cause:** The government tries to keep prices down by legislating price ceilings. **Effect:** _____
- Cause: The government wants to allocate scarce goods and services without the help of a price system. Effect: ______
- **3. Cause:** A reasonably competitive market is experiencing alternating, yet consecutively smaller, surpluses and shortages. **Effect:** _____
- **4. Cause:** People decide that farmers should receive a higher price for milk and cheese, so a price floor for these products is established. **Effect:** _____
- **5. Cause:** A market is at equilibrium, but the product falls out of style before producers can reduce production. **Effect:** _____

Reviewing the Facts

Section 1 (pages 137–140)

- **1. Describe** four advantages of using price as an allocating mechanism.
- **2. List** three problems of allocating goods and services using nonprice-related methods.

Section 2 (pages 142–148)

- **3. Cite** an example of an economic model used in this chapter.
- 4. Explain the role of shortages and surpluses in competitive markets.
- 5. **Describe** three causes of a price change in a market.

Section 3 (pages 150–155)

- **6. Explain** why shortages and surpluses are not temporary when price controls are used.
- **7. Identify** two programs that have historically been used to stabilize farm incomes.
- 8. Explain what is meant by the statement that markets "talk."

Thinking Critically

CONTENTS

1. Making Generalizations Some people argue that the minimum wage is not a fair price. Use a web like the one below to help you identify reasons for this argument. Explain why you agree or disagree.



2. Making Predictions Suppose that your state wanted to make health care more affordable for everyone. To do this, state legislators put a series of price controls-price ceilings-in place that cut the cost of medical services in half. What would happen to the demand for medical services at the new, lower price? What would happen to the supply of medical services that doctors would be willing to provide at the new, lower price? Where do you think new doctors would prefer to set up practice? Explain the reasons for your answers. **Chapter 6 Assessment and Activities**

Applying Economic Concepts

- 1. **Rationing** Suppose that a guest speaker visited your class and left 20 ballpoint pens as samples-not knowing that there were 30 students in the class. Devise a nonprice rationing system that would fairly allocate the scarce item to everyone in the class.
- 2. Equilibrium Price Many people feel that the minimum wage is too low. If it increased by \$1 per hour, what would happen to the number of students who would want to work after school? What would happen to the number of workers that stores in your community would want to hire? Would the combination of these factors cause a shortage or a surplus of workers in your community? Provide an explanation for each of your answers.

Math Practice

A shoe store is having a sale. The first pair of shoes sells for \$40. The second pair sells for half price, or \$20. The next pair sells for half of that, and so on. Make a table, like the one below, that tracks the total cost of the shoes as each pair is added.

Number of Pairs	Total Cost

Thinking Like an Economist

Economists like to use cost-benefit analysis to analyze the merits of any program. Use this decisionmaking strategy to evaluate the desirability of continuing to support and stabilize farm income.

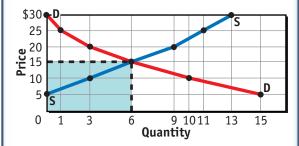
Technology Skill

Using a Spreadsheet Use your personal buying decisions to create a spreadsheet and graph showing how a market equilibrium price is reached.

- 1. Select a product that costs about \$5.00.
- 2. In cells A1 through C1, enter the words *Price*, *Demand*, and *Supply*.
- **3.** In cells A2 through A11, enter prices that range from \$1.00 to \$10.00.
- 4. In the next two columns, enter quantities that might be demanded and supplied at those prices.
- **5.** Highlight the three columns on the spreadsheet, then click on "Chart Wizard" or a similar icon, or click on "Insert" and then "Chart."
- **6.** Click on "line graph," then highlight a 2-line chart sub-type.
- 7. Follow the spreadsheet directions to title your graph.

Building Skills

Synthesizing Information Examine the figure, then answer the questions that follow.



- 1. What is the quantity demanded at a price of \$20? At \$15?
- 2. What is the quantity supplied at a price of \$10? At a price of \$20?
- 3. How large is the shortage or surplus at \$5? Explain your answer.
- 4. If the price started out at \$5 today, what would likely happen to the price tomorrow? Why?
- Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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ECONOMICS WORKSHOP IN ACTION

Developing a Training Manual

From the classroom of . . . Juan C. Ledesma Flanagan High School Pembroke Pines, Florida

The forces of supply and demand determine what is produced and made available to the consumer. Many products in the marketplace would have little value if you—the consumer—did not know how to use the product. Thus, as new products and technology are developed, a **demand** is created for manuals that illustrate the correct way to use the product. In this workshop, you will write a "how-to" manual or report. The manual will illustrate how to accomplish a process or function that you've chosen to describe.

Setting Up the Workshop

For this workshop you should work with one other person. Your task is to write a technical manual or report that explains how to construct, instruct, build, rebuild, or just plain create a product or process. Your audience must be real—fellow students, your teachers, your family members, etc. Keep this goal in mind as you do your work: The reader will learn something important, functional, and worthwhile after using your manual.

Criteria for Manuals

Your finished manual should include all of the following:

- Numbered pages
- Title page
- Statement of purpose
- Table of contents that includes at least five sections
- At least five sections that explain "how to"
- Scaled pictures or drawings of important parts, plans, and procedures, placed appropriately in the manual
- Chart, or graphic organizer, that reveals some important, usable data (e.g. a survey)
- Reference list of at least five other resource materials that could be utilized
- Information gained from an interview with an expert on the topic
- Alphabetized index of the important topics in the manual
- Checklist for procedures

CONTENTS

- Troubleshooting guide with at least ten "what if" problems
- Review/rating/recommendation by someone who has tried the manual

Procedures

STEP 1

Determine what process you will describe.

STEP 2

Do research in your school library or on the Internet for information about your process. Interview a person locally who is familiar with the process.

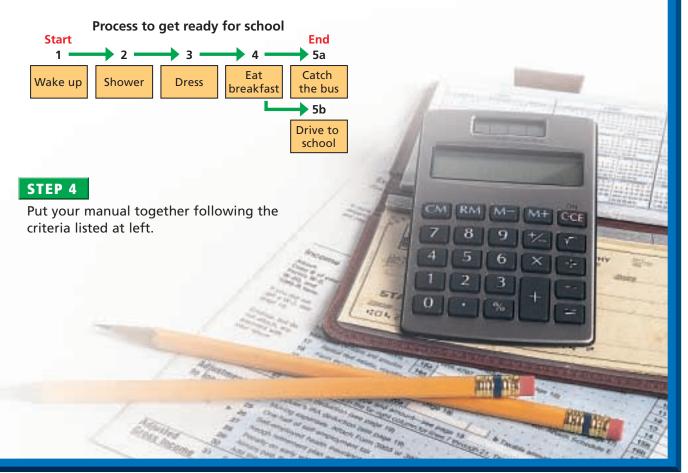
STEP 3

Make an outline of the process you hope to describe. A flowchart, like the example shown below, is often a good way to get started "mapping" the steps in a process.

Summary Activity

Present your training manual to your class, using the following guidelines:

- 1. Explain the rationale for your manual's subject.
- 2. Describe the aspirations you hold for your product and its user.
- **3.** Describe any technology you used to create your manual.
- 4. Describe the trials and errors you encountered in developing your manual.
- Describe the problems that you might foresee that could still be addressed (and even solved) if you had the time.





CHAPTER

Marrket Structures

The second second second

Economics & You

Why are some products available at competitive prices? Why are other products priced higher? In **Chapter 7**, you will learn about the various effects competition and market structures have on the prices you pay. To learn more about competition in a free enterprise system, view the Chapter 8 video lesson:

Competition and Monopolies

Advertisers try to persuade consumers to purchase their products.

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PIne-99

CLICK HERE

Chapter Overview Visit the Economics: Principles

and Practices Web site at <u>epp.glencoe.com</u> and click on *Chapter 7—Chapter Overviews* to preview chapter information.

Competition and Market Structures

SECTION 1

Study Guide

Main Idea

Market structures include perfect competition, monopolistic competition, oligopoly, and monopoly.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by identifying five conditions that characterize perfectly competitive markets.



Key Terms

laissez-faire, market structure, perfect competition, imperfect competition, monopolistic competition,

product differentiation, nonprice competition, oligopoly, collusion, price-fixing, monopoly, natural monopoly, economies of scale, geographic monopoly, technological monopoly, government monoply

Objectives

After studying this section, you will be able to:

- 1. Explain the characteristics of perfect competition.
- 2. Understand the nature of monopolistic competition.
- Describe the behavior and characteristics of the oligopolist.
- 4. Identify several types of monopolies.

Applying Economic Concepts

Product Differentiation Think of a popular brand of shoes or clothing. Read to find out why sellers go to such lengths to differentiate their products.

Cover Story

Discount for *Times* Bestsellers Sparks On-line Book Price War

SEATTLE—A price war among the three biggest on-line booksellers broke out yesterday when Amazon.com announced 50 percent off all New York Times [best-selling books] and Barnesandnoble.com



On-line discounts

Barnesandhoble.com and Borders.com immediately matched the discount. The deep discounts will mean that the companies will make little or no profit on the books, but the offer could stimulate sales of other more lucrative products as customers browse through the Web sites....

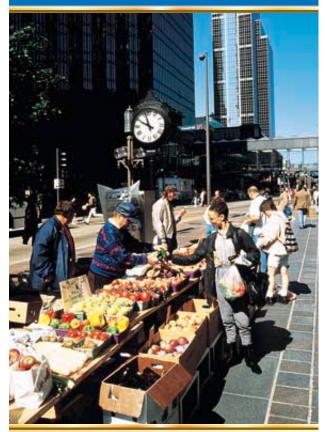
—The Boston Globe, May 18, 1999

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hen Adam Smith published *An Inquiry into* the Nature and Causes of the Wealth of Nations in 1776, the average factory was small, and business was competitive. **Laissez-faire**, the philosophy that government should not interfere with commerce or trade, dominated Smith's writing. "Laissez-faire" is a French term that means "allow them to do." Under laissez-faire, the role of government is confined to protecting private property, enforcing contracts, settling disputes, and protecting businesses against increased competition from foreign goods.

By the late 1800s, however, competition was weakening. In some markets mergers and acquisitions had combined many small firms into a few very large businesses. As industries developed—*industry*, meaning the supply side of the market, or all producers collectively—the nature of competitive markets changed. Many modern markets, such as the one discussed in the cover story, are now dominated by a few very large firms.

Market Structures



Conditions A market is a place where buyers and sellers can exchange products. *How do economists classify markets*?

Today, economists classify markets according to conditions that prevail in them. They ask questions such as: How many buyers and suppliers are there? How large are they? Does either have any influence over price? How much competition exists between firms? What kind of product is involved—is everyone trading the exact same product, or are they simply similar? Is it easy or difficult for new firms to enter the market?

The answers to these questions help determine market structure, or the nature and degree of competition among firms operating in the same industry. Economists group industries into four different market structures-perfect competition, monopolistic competition, oligopoly, and monopoly.

Perfect Competition

Perfect competition is characterized by a large number of well-informed independent buyers and sellers who exchange identical products. It represents a theoretically ideal situation that is used to evaluate other market structures. Five major conditions characterize perfectly competitive markets.

Necessary Conditions

The first condition is that there are a large number of buyers and sellers. No single buyer or seller is large enough or powerful enough to affect the price.

The second condition is that buyers and sellers deal in identical products. With no difference in quality, there is no need for brand names and no need to advertise. One seller's merchandise is just as good as another's. The market for table salt shares some of these features. Because salt is always the same chemical-sodium chloride-there is no logical reason to prefer one brand of salt over another.

The third condition is that each buyer and seller acts independently. This ensures that sellers compete against one another for the consumer's dollar, and that consumers compete against one another to obtain the best price. This competition is one of the forces that keeps prices low.

The fourth condition is that buyers and sellers are reasonably well-informed about products and prices. Well-informed buyers shop at the stores that have the lowest prices. Well-informed sellers match the lowest prices of their competitors to avoid losing customers.

The fifth condition is that buyers and sellers are free to enter into, conduct, or get out of business. This freedom makes it difficult for producers in any industry to keep the market to themselves. Producers have to keep prices competitive or new firms can take away some of their business.

Perfect Competition and Profit Maximization

Under perfect competition, each individual firm is too small to influence price. Therefore, the firm views demand differently than the market does. In a perfectly competitive market, supply and demand set

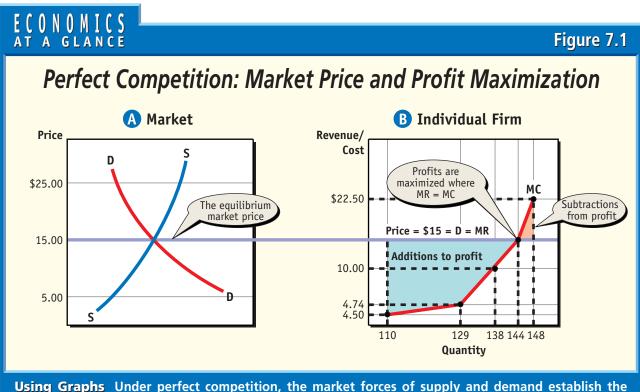


the equilibrium price. Then, each firm selects a level of output that will maximize its profits at that price.

The relationship between an individual firm and the entire industry under perfect competition is shown graphically in **Figure 7.1**. In **Panel A**, the market forces of supply and demand set the equilibrium price at \$15. This price, as shown in **Panel B**, now becomes a horizontal demand curve facing each perfectly competitive firm. Because the firm receives \$15 for every additional unit it makes, the demand curve is the same as the marginal revenue (MR) curve.

Panel B also shows the cost and revenue information for the firm presented earlier, in **Figure 5.6** on page 128. This firm, as you may recall, also received \$15 for every unit of output sold—which is why the price is the same as the marginal revenue shown in the second-to-last column. When the firm wanted to maximize its profits, it did so by finding the level of output that equated its marginal cost with its marginal revenue. **Panel B** in **Figure 7.1** shows this same information graphically. For example, the firm's marginal cost (MC) for producing the 110th unit of output was \$4.50. Because this unit could be sold in the market for \$15, the firm made a profit of \$10.50. When the firm added the seventh worker, total output rose to 129 units, and marginal costs rose to \$4.74–thereby earning additional profits for the firm.

The eighth worker helped increase total output to 138 units. This was also profitable since the marginal cost of producing 138 units was less than the marginal revenue from the sale of those products. When the firm hired the ninth worker, however, marginal cost was exactly equal to marginal revenue, so at this point the firm would stop hiring labor and maintain production at 144 units. Had the firm hired the tenth variable input, increasing total output to 148 units, total profits would have gone down because the \$22.50 marginal cost of production was larger than the \$15 marginal revenue.



Using Graphs Under perfect competition, the market forces of supply and demand establish the equilibrium price. The perfectly competitive firm treats this price as its demand curve and its marginal revenue (MR) because the firm will receive \$15 for each and every unit it sells. Is perfect competition always a theoretical situation? Explain.



The profit maximizing quantity of output is found where the marginal cost of production is equal to the marginal revenue from sales, or where MC = MR. This occurs at 144 units of output, shown in both **Figure 5.6** and **Panel B** of **Figure 7.1**. Other levels of output may generate the same amount of profits, but none will generate more.

A Theoretical Situation

Few, if any, perfectly competitive markets exist, although local vegetable farming ("truck" farming) comes close to satisfying all five conditions. In these markets many sellers offer nearly identical products. Individual sellers are unable to control prices, and both buyers and sellers have reasonable knowledge of products and prices. Finally, anyone who wants to enter the business by growing tomatoes, corn, or other products can easily do so.

Careers



Market Researcher

Can you organize and evaluate data? Can you be impartial when you compile your findings?

The Work

Market researchers gather, record, and analyze facts about products and sales.

Information may be gathered from company or government records, published materials, statistical files, and other sources. Researchers often print and circulate questionnaires, or survey people over the phone or door-todoor. The information is used to prepare forecasts of future sales trends, offer recommendations on product design, and define the market toward which advertising should be directed.

Qualifications

Strong analytical and writing skills and experience with computerized data are essential. Courses in marketing, statistics, English composition, speech, psychology, and economics are required. Although perfect competition is rare, it is important because economists use it to evaluate other market structures. **Imperfect competition** is the name given to a market structure that lacks one or more of the conditions of perfect competition. Most firms and industries in the United States today fall into this classification, which has three categories-monopolistic competition, oligopoly, and monopoly.

Monopolistic Competition

Monopolistic competition is the market structure that has all the conditions of perfect competition except for identical products. By making its product a little different, the monopolistic competitor tries to attract more customers and monopolize a small portion of the market.

Product Differentiation

In contrast to perfect competition, monopolistic competition utilizes **product differentiation**-real or imagined differences between competing products in the same industry. Most items produced today-from the many brands of athletic footwear to personal computers-are differentiated. The differentiation may even be extended to store location, store design, manner of payment, delivery, packaging, service, and other factors.

Sometimes differences between products are real. For example, some brands of athletic footwear have special shock-absorbing soles. Others have certain construction materials to reduce weight. Some are just designed to look more appealing, or are linked to star athletes.

Nonprice Competition

Monopolistic competitors want to make consumers aware of product differences. **Nonprice competition**—the use of advertising, giveaways, or other promotional campaigns to convince buyers that the product is somehow better than another brand—often takes the place of price competition. Therefore, monopolistic competitors usually advertise or promote heavily to make their products seem different from everyone else's.



THE GLOBAL ECONOMY

MARKETING IN CHINA

An important part of any product is its name. It must convey what the producers intend.

Potential exporters must understand cultural characteristics when considering brand management. Because the Chinese continue to favor names that convey goodness, luck, happiness, long life, prosperity or historical significance, it is sometimes difficult to translate a Western brand name into Chinese.

The Coca-Cola Company took 11 years to make a profit, in part due to an ill-advised brand name, after it came back to China in 1979. Today, Coke

This explains why producers of designer jeans spend so much on advertising and promotion. If the seller can *differentiate* a product in the mind of the buyer, the firm may be able to raise the price above its competitors' prices.

Monopolistic Competition and Profit Maximization

Under monopolistic competition, similar products generally sell within a narrow price range. The monopolistic aspect is the seller's ability to raise the price within this narrow range. The competitive aspect is that if sellers raise or lower the price enough, customers will forget minor differences and change brands.

The profit maximization behavior of the monopolistic competitor is no different from that of other firms. The firm produces the quantity of output where its marginal cost is equal to its marginal revenue. If the firm convinces consumers that its product is better, it can charge a higher price. If it cannot convince them, the firm cannot charge as much.

The monopolistic competitor can enter the market easily. The possibility of profits draws new firms, each of which produces a product only a little different from the ones already on the market. dominates the vast soft drink market across the Chinese continent after creating an improved name meaning "delicious, enjoyable and makes you happy."

PepsiCo, Inc., came up with "everything makes you happy" to capture market share for Pepsi....

-Alcinda Hatfield, Foreign Agricultural Service, July 1999

Critical Thinking

- 1. Making Generalizations Why is it sometimes difficult to translate a brand name into a name acceptable to people in another country?
- **2. Categorizing Information** What part does the brand name and labeling of a product play in product differentiation?

In time, both the number of firms in an industry and the supply of the product becomes fairly stable with no great profits or losses.

Oligopoly

CONTENTS

Oligopoly is a market structure in which a few very large sellers dominate the industry. The product of an oligopolist may be differentiated—as in the auto industry, or standardized—as in the steel industry. The exact number of firms in the industry is less important than the ability of any single firm to cause a change in output, sales, and

Competing in the Market On an average shopping trip, a consumer's eye lingers on a product for only about 2.5 seconds. In order to stay competitive, companies experiment with new formulas, along with the color and size of the product's packaging. These research and development costs can range from \$100,000 for adding a new color to an existing product line to millions of dollars for the creation of a new product.

Did you know?

prices in the industry as a whole. Because of these characteristics, oligopoly is further from perfect competition than is monopolistic competition.

In the United States, many markets are already oligopolistic, and many more are becoming so. Pepsi and Coke dominate the soft drink market. McDonald's, Burger King, and Wendy's dominate the fast-food industry. A few large corporations dominate other industries, such as the domestic airline, automobile, and long-distance telephone service industries. Oligopolists are even popping up on the Internet. The Internet bookstores discussed in the cover story–Amazon.com, Barnesandnoble.com, and Borders.com–are oligopolists in their industry.

Interdependent Behavior

Because oligopolists are so large, whenever one firm acts the other firms usually follow. For example, if one airline announces discount fares, the



Advertising Advertisers often use celebrities, such as star athletes, to increase the popularity of their products. *What is the purpose of product differentiation*?

other airlines generally match the lower prices in a matter of days, if not hours. Each oligopolist knows that the other firms in the industry have considerable power and influence. Therefore, firms tend to act together.

Sometimes the interdependent behavior takes the form of **collusion**, a formal agreement to set prices or to otherwise behave in a cooperative manner. One form of collusion is **price-fixing**—agreeing to charge the same or similar prices for a product. In almost every case these prices are higher than those determined under competition. The firms also might agree to divide the market so that each is guaranteed to sell a certain amount. Because collusion usually restrains trade, it is against the law.

Pricing Behavior

While an oligopolist can lower the price of its product at any time, that firm knows that other oligopolists are likely to follow suit. When one firm lowers prices it can lead to a price war, or a series of price cuts that result in unusually low prices.

The cover story describes a typical oligopolistic price war. Amazon's two competitors matched its lower prices immediately, and prices were so low that none of the firms made a profit at the sale prices. Oligopolistic price wars are usually short but intense—and almost always provide welcome price breaks for consumers.

Raising prices is also risky, unless the firm knows for certain that its rivals will follow suit. Otherwise, the firm with higher prices will lose sales to its competitors. Because of the potential threat to profits when prices go up or down, oligopolists generally prefer to compete on a nonprice basis.

Nonprice competition has the advantage of making it more difficult for rivals to respond quickly. If an oligopolist finds a new advertising gimmick or a way to enhance a product, the other firms are at a disadvantage for a period of time. After all, it takes longer to develop a better advertising campaign or a new physical attribute for a product than it does to match a price cut.

Oligopoly and Profit Maximization

The oligopolist, like any other firm, maximizes its profits when it finds the quantity of output



ECONOMICS AT A GLANCE

Figure 7.2

Characteristics of Market Structures						
	Number of Firms in Industry	Influence Over Price	Product Differentiation	Advertising	Entry Into Market	Examples
Perfect Competition	Many	None	None	None	Easy	Perfect: None Near: Truck Farming
Monopolistic Competition	Many	Limited	Fair Amount	Fair Amount	Easy	Gas Stations Women's Clothing
Oligopoly	Few	Some	Fair Amount	Some	Difficult	Automobiles Aluminum
Pure Monopoly	One	Extensive	None	None	Almost Impossible	Perfect: None Near: Water

Using Tables The term market structure refers to the nature and degree of competition among firms operating in the same industry. Individual market structures—perfect competition, monopolistic competition, oligopoly, and monopoly—are determined by the five characteristics listed in the columns above. In which market structure does nonprice competition play a major role?

where its marginal cost is equal to its marginal revenue. Having found this level of production, the oligopolist will charge the price consistent with this level of sales.

The product's final price is likely to be higher than it would be under monopolistic competition, and much higher than it would be under perfect competition. Even when oligopolists do not collude formally, they still tend to act conservatively and seldom protest price hikes by their rivals.

Monopoly

M At the opposite end of the spectrum from perfect competition is the monopoly. A **monopoly** is a market structure with only one seller of a particular product. This situation-like that of perfect competition-is an extreme case. In fact, the American economy has very few, if any, cases of

pure monopoly-although the local telephone company or cable TV operator may come close.

Even the telephone company, however, faces competition from other communication companies, from the United States Postal Service, and from Internet providers that supply E-mail and voice-mail services. Local cable providers face competition from video rental stores, satellite cable systems, and the Internet. Consequently, when people talk about monopolies, they usually mean near monopolies.

One reason we have so few monopolies is that Americans traditionally have disliked and tried to outlaw them. Another reason is that new technologies often introduce products that compete with existing monopolies. The development of the fax machine allowed businesses to send electronic letters that compete with the United States Postal Service. Later, E-mail became even more popular than the fax.



Types of Monopolies

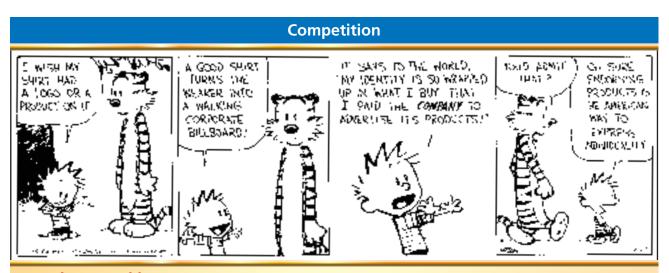
Sometimes the nature of a good or service dictates that society would be served best by a monopoly. One such case is a **natural monopoly**—a market situation where the costs of production are minimized by having a single firm produce the product.

Natural monopolies can provide services more cheaply as monopolies than could several competing firms. For example, two or more competing telephone companies serving the same area would be inefficient if they each needed their own telephone poles and lines. Public utility companies fall into this category because it would be wasteful to duplicate the networks of pipes and wires that distribute water, gas, and electricity throughout a city. To avoid these problems, the government often gives a public utility company a *franchise*, the exclusive right to do business in a certain area without competition. By accepting such franchises, the companies also accept a certain amount of government regulation.

The justification for the natural monopoly is that a larger firm can often use its personnel, equipment, and plant more efficiently. This results in **economies of scale**, a situation in which the average cost of production falls as the firm gets larger. When this happens, it makes sense for the firm to be as large as is necessary to lower its production costs. Sometimes a business has a monopoly because of its location. A drugstore operating in a town that is too small to support two or more such businesses becomes a **geographic monopoly**, a monopoly based on the absence of other sellers in a certain geographic area. Similarly, the owner of the only gas station on a lonely interstate highway exit also has a type of geographic monopoly.

A **technological monopoly** is a monopoly that is based on ownership or control of a manufacturing method, process, or other scientific advance. The government may grant a *patent*—an exclusive right to manufacture, use, or sell any new and useful invention for a specific period. Inventions are covered for 20 years; however, the product's designs can be patented for shorter periods, after which they become public property available for the benefit of all. Art and literary works are protected through a *copyright*, the exclusive right of authors or artists to publish, sell, or reproduce their work for their lifetime plus 50 years.

Still another kind of monopoly is the **government monopoly**–a monopoly the government owns and operates. Government monopolies are found at the national, state, and local levels. In most cases they involve products or services that private industry cannot adequately provide.



Nonprice Competition If advertisers can make you believe their product is better than others, you might pay more for it. *How has nonprice competition affected your buying habits*?



Many towns and cities have monopolies that oversee water use. Some states control alcoholic beverages by requiring that they be sold only through state stores. The federal government controls the processing of weapons-grade uranium for military and natural security purposes.

Monopoly and Profit Maximization

Monopolies maximize profits the same way other firms do: they equate marginal cost with marginal revenue to find the profit-maximizing quantity of output. Even so, there are differences between the monopolist and other profit-maximizing firms-especially the perfect competitor.

First, the monopolist is very much larger than the perfect competitor. This is because there is only one firm-the monopolist-

supplying the product, rather than thousands of smaller ones. Second, this large size, along with the lack of meaningful competition, allows the monopolist to behave as a *price maker*—as opposed to the perfect competitor who is a *price taker*.

Because there are no competing firms in the industry, there is no equilibrium price facing the



Geographic Monopoly A lone general store in an isolated area enjoys a geographic monopoly. How does a geographic monopoly differ from a natural monopoly?

monopolist. Instead, the monopolist determines the price that will equate its marginal revenue with its marginal cost, and then produces the quantity of output consistent with that price. In every case, the monopolist will charge more for its product—hence the term *price maker*—and then limit the quantity for sale in the market.

Monopoly

Section 1 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Describe the four basic market structures. Explain how they differ from one another.
- 2. Key Terms Define laissez-faire, market structure, perfect competition, imperfect competition, monopolistic competition, product differentiation, nonprice competition, oligopoly, collusion, price-fixing, monopoly, natural monopoly, economies of scale, geographic monopoly, technological monopoly, government monopoly.
- **3. List** the five characteristics of perfect competition.
- 4. Describe monopolistic competition.

- **5. Explain** why the actions of one oligopolist affect others in the same industry.
- 6. Identify the types of monopolies.

Applying Economic Concepts

 Product Differentiation Make a list of as many clothing stores in your community as possible. Describe how each store tries to differentiate itself from the others.

Critical Thinking

8. Synthesizing Information Provide at least two examples of oligopolies in the United States today.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2. Profiles Economics

"I Love the Challenge": Charles Wang

"There are CEOs who brag about never having touched a PC," says Charles Wang, head of Computer Associates International. "I say to them, 'Get your head out of the sand, kid." Wang's aggressive approach has helped him grow his company from a four-person operation to one that earns more than \$5 billion in computer software sales a year. Today, Computer Associates is the largest independent supplier of software for business computing.

A DIFFICULT START

Born in Shanghai, China, in 1944, Charles Wang and his family fled the communist regime in 1952 to settle in the United States. Wang attended Queens College in New York and then opened an American subsidiary of Swiss-owned Computer Associates in New York City in 1976. Wang began his operations with just one product.

STRATEGY FOR GROWTH

Wang believed that the best growth strategy for the fledgling company was to purchase existing software firms and market their products. This would spare his company the risk of developing its own products and enable it to get products to market sooner. The strategy paid off. Computer Associates purchased a number of firms throughout the 1980s, and increased its sales more than tenfold, from \$85 million in 1984 to \$1 billion in 1989.

The recession of 1990–1991 put a damper on business, but Wang remained optimistic about the future of his company and launched a campaign to purchase even more companies. His efforts were amply rewarded, and Computer Associates soon found itself back on the fast track.

PROGRESSIVE MANAGEMENT

Despite its enormous growth, the company still remains focused on its people. Wang supplies onsite fitness facilities and child development centers for employees. He brought together 2,000 members of Computer Associates' development staff for "Nerd Weekend"-a celebration for the people who fueled Computer Associates' growth. Wang also sponsors "Technology Boot Camps" to help chief executives get over their fear and ignorance of computers. In 1994, he wrote a book urging business people to start thinking like technology people, and vice versa.

How has Wang accomplished so much? "I love it when people say it can't be done," he says. "I love the challenge."

Examining the Profile

- **1. Identifying Cause and Effect** What business strategy helped Wang's fledg-ling company become successful?
- Evaluating Information How important do you think Wang's "Nerd Weekend" and similar activities are to his company's success?



Market Failures

SECTION 2

Study Guide

Main Idea

Inadequate competition, inadequate information, and immobile resources can result in market failures.

Reading Strategy

Graphic Organizer As you read the section, think about why maintaining adequate competition is a worthwhile goal. Use a graphic organizer like the one below to list effects of competition.



Key Terms

market failure, externality, negative externality, positive externality, public goods

Objectives

After studying this section, you will be able to:

- 1. **Discuss** the problems caused by inadequate competition.
- 2. Understand the importance of having adequate information.
- 3. Describe the nature of resource immobility.
- 4. Explain the nature of positive and negative externalities.

Applying Economic Concepts

Market Failure Have you ever felt that the perfect part-time job is waiting for you—but you just can't seem to find it? If so, you are experiencing market failure. A market failure usually occurs when we don't have adequate information about the market. The result is that productive resources—including you—do not reach their maximum potential.

Cover Story

Mum's the Word

We live in increasingly intolerant times.... Mobile telephones are the latest target: some trains, airline lounges, restaurants and even golf courses are being designated "no phone" areas.



Woman on cell phone

designated no phone areas. The Economist would like to suggest restrictions on another source of noise pollution: children.... Smoking, driving and mobile phones all cause what economists call "negative externalities"...[the] costs of these activities to other people tend to exceed the costs to the individuals [who are doing it].

For children, just like cigarettes or mobile phones, clearly impose a negative externality on people who are near them. Anybody who has suffered a 12-hour flight with a bawling baby in the row immediately ahead or a bored youngster viciously kicking their seat from behind, will grasp this quickly. . . .

-The Economist, December 5, 1998

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The writer of the article cited in the cover story went on to suggest that airlines should create "child-free zones" by seating children in the back of the aircraft—and by charging parents more. This "rare outbreak of humor at *The Economist*," according to London's *Daily Telegraph*, was a hit with readers, resulting in bulging mailbags and publicity.

The cover story, however, reminds us of another, more serious, fact of economic life-that markets sometimes fail. How they fail, and how the failures can be remedied, is a concern for economists. We now want to take a look at how markets fail. Ways to deal with these failures will be discussed in the next section of this chapter.

A competitive free enterprise economy works best when four conditions are met. Adequate competition must exist in all markets. Buyers and sellers must be reasonably well-informed about conditions and opportunities in these markets. Resources must be free to move from one industry to another. Finally, prices must reasonably reflect the costs of production, including the rewards to entrepreneurs. Accordingly, a **market failure** can occur when any of these four conditions are significantly altered.

The most common market failures involve cases of inadequate competition, inadequate information, resource immobility, external economies, and public goods. These failures occur on both the demand and supply sides of the market.

Inadequate Competition

Over time, mergers and acquisitions have resulted in larger and fewer firms dominating various industries. The decrease in competition has several consequences.

Inefficient Resource Allocation

Inadequate competition tends to curb efficient use of scarce resources-resources that could be put to other, more productive uses if they were available. For example, why would a firm with few or no competitors have the incentive to use resources carefully? If a firm is free to do as it pleases, it likely will spend its profits on bonuses and extras like executive jets, lucrative salaries, and generous retirement benefits. This is one of the reasons that public utilities such as electricity are regulated by the government-to make sure that they do not use their monopoly status to waste or abuse resources.

Higher Prices and Reduced Output

An imperfect competitor such as a monopoly can use its position to prevent competition and restrict production. This situation brings about artificial shortages that cause higher prices than under other market structures.

Economic and Political Power

Inadequate competition may enable a business to influence politics by wielding its economic might. In the past, many firms have used their huge capital resources to further the political careers of owners and their relatives and friends. A large corporation does not even have to be a monopoly for its economic power to translate to political power. A large corporation, for example, may demand tax breaks from the state or local government. If the government refuses, the corporation may threaten to move elsewhere, causing economic loss to the community. Because the community does not want to risk the loss, the corporation may get its way.

Both Sides of the Market

If we consider the supply side of the market, it is clear that perfectly competitive or monopolistically competitive markets usually have enough firms to ensure competition. When it comes to oligopoly, however, we know that the temptation to collude is strong. No competition exists if a monopolist dominates the supply side of the market.

Inadequate competition may occur on the demand side of the market as well. In most cases, such as in the consumer goods and services markets, many buyers can be found. How many buyers are there, though, for space shuttles, hydroelectric dams, super computers, M-1 tanks, and high technology fighter jets? While failures on the demand side of the market do occur, they are more difficult to correct than failures on the supply side.

Inadequate Information

If resources are to be allocated efficiently, everyone-consumers, businesspeople, and government officials-must have adequate information about market conditions. A secretary or an accountant may receive a competitive wage in the automobile industry, but are wages for the same skills higher in the insurance industry, or in the banking industry? Even the treasurer of a small community needs to know if the town's surplus funds can earn a higher return if invested in Dallas, New York, Indianapolis, or Seattle. Information about conditions in many markets is needed before these questions can be answered.

Some information is easy to find, such as wantads or sale prices found in the local newspaper. Other information is more difficult to obtain. If this



knowledge is important to buyers, and is difficult to obtain, then it is an example of a market failure.

Resource Immobility

One of the more difficult problems in any economy is that of resource immobility. This means that land, capital, labor, and entrepreneurs do not move to markets where returns are the highest. Instead they tend to stay put and sometimes remain unemployed.

What happens, for example, when a large auto assembly plant, steel mill, or mine closes, leaving hundreds of workers without employment? Certainly some workers can find jobs in other industries, but not all can. Some of the newly unemployed may not be able to sell their homes. Others may not want to move away from friends and relatives to find new jobs in other cities. Consider the problems caused when the federal government closed military bases to save taxpayers' dollars. Thousands of workers were laid off in communities that had no immediate means of employing them. Resource mobility, an ideal in the competitive free enterprise economy, is much more difficult to accomplish in the real world. When resources are immobile or refuse to move, markets do not always function efficiently.

Externalities

Many activities generate some kind of **externality**, or unintended side effect that either benefits or harms a third party not involved in the activity that caused it.

A **negative externality** is the harm, cost, or inconvenience suffered by a third party because of actions by others. The classic case of a negative externality is



Positive and Negative Most economic activities generate externalities. Do you think the nearby airport expansion was a positive or a negative externality for the people living in this neighborhood? Why?



the noise and inconvenience some people suffer when an airport expands.

A **positive externality** is a benefit received by someone who had nothing to do with the activity that generated the benefit. For example, people living on the other side of town may benefit from the additional jobs generated by the airport expansion, or a nearby restaurant may sell more meals, make a greater profit, and hire more workers. Both the owners of the restaurant and the new workers gain from the airport expansion even though they had nothing to do with the expansion in the first place.

Externalities are classified as market failures because their costs and benefits are not reflected in the market prices that buyers and sellers pay for the original product. For example, does the airline or the air traveler compensate the homeowner for the diminished value of the property located near the new runway extension? Does the restaurant owner share the additional good fortune derived from the new business with the airport or the air traveler? In both cases the answer is no. As a result, the prices that travelers pay for air travel will not reflect the external costs and benefits that the airport expansion generates.

Public Goods

Another form of market failure shows up in the need for public goods. **Public goods** are products that are collectively consumed by everyone, and whose use by one individual does not diminish the satisfaction or value available to others. Examples of public goods are uncrowded highways, flood control measures, national defense, and police and fire protection.

The market, however, when left to itself, does not supply these items—or only supplies them inadequately. This is because a market economy produces only those items that can be withheld if people refuse to pay for them. It would be difficult, for example, to deny one person the benefits of national defense while supplying it to others. Because it is so difficult to get everyone to pay for their fair share of a public good, private markets cannot efficiently produce them and will therefore produce other things.

The case of public goods illustrates that while the market is very successful in satisfying *individual* wants and needs, it may fail to satisfy them on a *collective* basis. If public goods are to be supplied, the government usually has to provide them.



Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 173, explain why maintaining adequate competition is a worth-while goal.
- Key Terms Define market failure, externality, negative externality, positive externality, public goods.
- **3. Define** "adequate competition" in your own words and explain why markets need adequate competition.
- **4. Explain** the importance of having adequate information.
- **5. Explain** why resources are not always mobile and willing to move.

6. **Describe** the similarities and differences between positive and negative externalities.

Applying Economic Concepts

7. Market Failures Cite at least two examples of situations in your community in which resources did not move from one market or industry to another because they were either unable or unwilling to move.

Critical Thinking

CONTENTS

- Understanding Cause and Effect Identify one possible positive externality and one possible negative externality from the closing of a military base.
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

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AUGUST 3, 1998

Coca-Cola and Pepsi are competing for control of the U.S. beverage market. The cola giants are experimenting with new marketing strategies in New York City, where the consumer market is considered one of the toughest in the country.

Cola Wars

With \$30 billion in beverage sales between them, Coca-Cola Co. and Pepsico Inc. have long battled each other with multimillion dollar ad campaigns and country-by-country marketing coups....

But to make sure all that marketing money translates into bottles sold, both Coke and Pepsi are intensifying their efforts at the local level.... And nowhere is the fighting more heated than in the intensely competitive, intensely difficult New York market. "Many softdrink executives think New York is the toughest market in the country," says John Sicher, editor of industry newsletter *Beverage Digest.* "The traffic is huge, the population is dense, and the neighborhoods are complicated."

But it's also a huge price-and one PepsiCo, headquartered in Purchase, N.Y., would be loath to lose. Pepsi has always spent big to stay ahead on its home turf. New York

is one of only four U.S. markets where Pepsi-Cola outsells Coca-Cola Classic....

Newsclip

The showdown over the Big Apple began . . . when Coke's largest bottler, Coca-Cola Enterprises Inc. (CCE), moved into the New York market. CCE has since added 600 more marketing people and 60 new trucks to its delivery fleet. . . .

... Each marketing representative visits up to 120 small stores a week, [where they are] pushing for snazzier displays, better placement, and more promotions....



... Pepsi is pushing its own New York campaign to the hilt. But rather than send out fresh new troops, Pepsi is relying heavily on its bottler's local distribution force to boost its presence in stores, with new racks, coolers, and giveaways. It is also making a big push to get the most from its sponsorships of Lincoln Center, Radio City Music Hall, and the Bronx Zoo with ticket giveaways and advertising tie-ins. ...

. . . In this hard-fought battle, Coke and Pepsi are doing everything they can to come out on top.

-Reprinted from August 3, 1998 issue of *Business Week*, by special permission, copyright © 1998 by The McGraw-Hill Companies, Inc.

Examining the Newsclip

- **1. Finding the Main Idea** Explain how the cola companies are trying to dominate the New York consumer markets.
- 2. Making Predictions What might you expect to happen to Pepsi and Coke prices as the companies try to dominate the New York City market?

The Role of Government

SECTION 3

Study Guide

Main Idea

One of the economic functions of government in a market economy is to maintain competition.

Reading Strategy

Graphic Organizer As you read the section, give three reasons government takes part in economic affairs. Complete an organizer similar to the one below to help you organize your answer.



Key Terms

trust, price discrimination, cease and desist order, public disclosure

Objectives

After studying this section, you will be able to:

- 1. Discuss major antitrust legislation in the United States.
- 2. Understand the need for limited government regulation.
- 3. Explain the value of public disclosure.
- 4. Discuss the modifications to our free enterprise economy.

Applying Economic Concepts

Public Disclosure Do you have a credit card or a car loan? Do you know the size of the monthly payments, the computation of the interest, and other important terms of the agreement? Did someone take the time to explain all these details? Disclosing this information is not merely an act of kindness on the part of the business: it is required by a federal public disclosure law to assure that you are a well-informed consumer.

Cover Story

Toys "R" Us, Mattel, Settle Anti-Trust Suit

Retailing giant Toys "R" Us and two top toy makers agreed to give away \$50 million in toys and cash to needy kids as part of a settlement of a nationwide anti-trust suit.



Toys for Tots program

Two years ago, New York

and 43 other states joined to sue Toys "R" Us ... Mattel, Hasbro and Little Tikes for allegedly conspiring to limit toy supplies to discount retailers such as Sam's Club and Price-Costco.

According to the complaint [Toys "R" Us] used its market power over the manufacturers to maintain a stranglehold on the industry. . . . The national toy giveaway will be run over the next three years by the U.S. Marine Corps' Toys for Tots program.

-New York Daily News, May 26, 1999

oday, government has the power to encourage competition and to regulate monopolies that exist for the public welfare. In some cases, government has taken over certain economic activities and runs them as government-owned monopolies. The government also has the power to punish companies-like those in the cover story-by forcing firms to pay penalties when they act in a manner that restrains competition.

Antitrust Legislation

CONTENTS

In the late 1800s, the United States passed laws to restrict monopolies, combinations, and trusts-legally formed combinations of corporations or companies. Since then, a number of key laws have been passed that allow the government to either prevent or break up monopolies. Collectively, this legislation is designed to prevent market failures due to inadequate competition.



In 1890 Congress passed the Sherman Antitrust Act "to protect trade and commerce against unlawful restraint and monopoly." The Sherman Act, described in **Figure 7.3**, was the country's first significant law against monopolies. It sought to do away with monopolies and restraints that hindered competition. By the early 1900s, a number of business organizations had been convicted under the Sherman Act.

The Sherman Act laid down broad foundations for maintaining competition. The act was not specific enough, however, to stop many practices that restrained trade and competition. In 1914 Congress passed the Clayton Antitrust Act to give the government greater power against monopolies. Among other provisions, this act outlawed **price discrimination**—the practice of charging customers different prices for the same product.

The Federal Trade Commission Act was passed in the same year to enforce the Clayton Antitrust Act. The act set up the Federal Trade Commission (FTC) and gave it the authority to issue cease and desist orders. A **cease and desist order** is an FTC ruling requiring a company to stop an unfair business practice, such as price-fixing, that reduces or limits competition among firms.

In 1936 Congress passed the Robinson-Patman Act in an effort to strengthen the Clayton Act, particularly the provisions that dealt with price

CYBERNOMICS SPOTLIGHT

Consumer Protection

Accurate and reliable information about products helps consumers determine which ones are the best buys. Consumer information is available on many online sites. Included are studies and tests about products and services, personal finance, health and nutrition, and other consumer concerns.

discrimination. Under this act, companies could no longer offer special discounts to some customers while denying them to others. This law primarily affected national organizations and chain stores that were offering goods and services at lower prices than those paid by small independent businesses.

Government Regulation

Not all monopolies are bad, and for that reason not all should not be broken up. In the case of a natural monopoly, it makes sense to let the firm expand to take advantage of lower production costs—then regulate its activities so that it cannot take advantage of the consumer. Ideally, the regulator's goal is to set the same level of price and service that would exist under competition.





ECONOMICS At A GLANCE

Figure 7.4

Federal Regulatory Agencies

Food and Drug Administration (FDA), 1906	Enforces laws to ensure purity, effectiveness, and truthful labeling of food, drugs, and cosmetics; inspects production and shipment of these products		
Federal Trade Commission (FTC), 1914	Administers antitrust laws forbidding unfair competition, price fixing, and other deceptive practices		
Federal Communications Commission (FCC), 1934	Licenses and regulates radio and television stations and regulates interstate telephone, telegraph rates and services		
Securities and Exchange Commission (SEC), 1934	Regulates and supervises the sale of listed and unlisted securities and the brokers, dealers, and bankers who sell them		
National Labor Relations Board (NLRB), 1935	Administers federal labor-management relations laws; settles labor disputes; prevents unfair labor practices		
Federal Aviation Administration (FAA), 1958	Oversees the airline industry		
Equal Employment Opportunity Commission (EEOC), 1964	Investigates and rules on charges of discrimination by employers and labor unions		
Environmental Protection Agency (EPA), 1970	Protects and enhances the environment		
Occupational Safety and Health Administration (OSHA), 1970	Investigates accidents at the workplace; enforces regulations to protect employees at work		
Consumer Product Safety Commission (CPSC), 1972	Develops standards of safety for consumer goods		
Nuclear Regulatory Commission (NRC), 1974	Regulates civilian use of nuclear materials and facilities		
Federal Energy Regulatory Commission (FERC), 1977	Supervises transmission of the various forms of energy		

Using Charts The government has created a number of federal regulatory agencies to oversee the economy. Because of government's involvement in the economy, we have a modified free enterprise system. With which of the agencies listed in the table are you familiar? Which affect you directly? Why?

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Examples of Regulation

Local and state governments regulate many monopolies, such as cable television companies, water and electric utilities, and even telephone companies. A public commission or other government agency usually approves prices for their services. If a company wants to raise rates, it must argue and prove its case before the commission.

Agencies of the national government, such as those listed in **Figure 7.4**, regulate many businesses. Privately owned agencies, such as the Federal Reserve System, have certain regulatory powers, including the power to regulate the money supply, some daily bank operations, and even bank mergers.

Internalizing Externalities

The government can also use the tax system to lessen some of the negative externalities in the economy. Suppose, for example, that firms in a certain industry are causing pollution, which is flowing into a nearby river or even affecting the atmosphere. Because they are using the environment as a giant waste-disposal system, their costs of production are lower than they should be.

If government taxes these producers, several things happen. First, every firm's cost of production goes up, causing each to produce a little less at every possible price. This causes the market supply curve to shift and the price of the product to rise. Consumers of the product react predictably by buying less of the product. Meanwhile, the government uses the tax proceeds to clean up the pollution.

Figure 7.5 shows how this works. First, a \$1 tax is placed on every unit of output that a firm produces. This shifts the supply curve up by exactly \$1. The new intersection of supply and demand takes place at 15.60-indicating that the firm paid 40¢ of the tax and passed 60¢ on to the consumer.

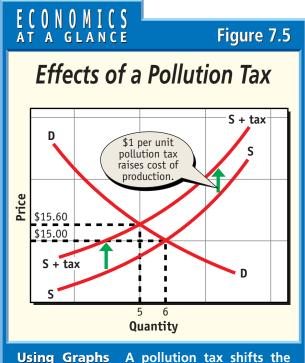
Economists call this "internalizing an externality" because it forces the polluting firm and its customers, rather than innocent third parties, to pay for the cost of pollution. Consequently, the government uses policies like this to prevent market failures due to *negative externalities*.

Public Disclosure

The purpose of public disclosure is to provide the market with enough data to prevent market failures due to *inadequate information*. While there is some cost involved, and while some businesses might prefer to not disclose anything, the benefits to society far outweigh the costs.

One of the more potent weapons available to the government is **public disclosure**, or the requirement that businesses reveal information to the public. The degree of disclosure is more extensive than most people realize, going beyond the content labels that the Food and Drug Administration requires on foods and medicines.

For example, the government requires that all corporations selling stock to the public must disclose financial and operating information on a regular basis to both its shareholders and to the Securities and Exchange Commission (SEC). The



Using Graphs A pollution tax shifts the cost of the negative externality back to the producer and the user of the product. In the example, how much of the \$1 tax does the producer pay?

CONTENTS



The Role of Government Truth-in-advertising laws are one way the federal government tries to improve the quality of information in the economy. *How do these laws protect consumers?*

SEC retains this data electronically in its Electronic Data Gathering Analysis and Retrieval (EDGAR) system, which can be accessed by anyone over the Internet. Access is free, and you need not be an owner to see the extremely detailed financial and operating information for any firm.

Banks are required to file periodic reports to the Federal Reserve System and other federal agencies such as the Federal Deposit Insurance Corporation (FDIC) that insures the nation's

STANDARD&POOR'SINFOBYTE

The SEC The Securities and Exchange Commission (SEC) is a regulatory agency that is responsible for administering federal securities laws. The purpose of these laws is to protect investors from improper practices in securities markets and to ensure that they have access to disclosure of all material information concerning publicly traded securities. The commission also regulates firms engaged in the purchase or sale of securities, people who provide investment advice, and investment companies.

banks. Most of this information is available to the bank's competitors as well as to its shareholders, and it is highly sought after by almost all firms in the industry.

There are also disclosure regulations for businesses that lend to consumers. If you obtain a credit card or borrow money to buy a car, the lender will take considerable time to explain how the monthly interest is computed, the length of the loan, the size of the payments, and other important terms of the agreement. This is not an act of kindness on the lender's part-federal law requires that lenders make these disclosures so that consumers know what they are getting into. Finally, there are "truth-in-advertising" laws that prevent sellers from making false claims about their products.

Indirect Disclosure

The government has also worked indirectly to improve the quality of information available to consumers. One example is the government's support for the Internet, and its attempt to provide low-cost access to all public schools. Government has also agreed to not collect some fees, such as taxes on e-commerce sales, in order to help the Internet grow.





Businesses have joined the rush to the Web by posting extensive information about their activities. The Internet provides other information to consumers as well. The savvy user can talk to others in chat rooms, participate in user forums, or read product reviews to find out more about a good or service before making a purchase. Other services allow consumers to search for the best prices.

Finally, virtually every government document, study, and report is available in some fashion on the Internet. This includes the annual budget of the U.S. government, and reports by the President's Council of Economic Advisors. Also available online are information from the *Statistical Abstract of the United States*, bulletins by the Bureau of Labor Statistics, reports by the Census Bureau, and almost every other publication that you can find in the government documents section of a major research library.

Modified Free Enterprise

Concern over the costs of imperfect competition is one reason the government intervenes in the economy. Historically, the freedom to pursue self-interests led some people and businesses to seek economic gain at the expense of others. Under the label of competition, some larger firms used their power to take advantage of smaller ones. In some markets, monopoly replaced competition.

Because of such conditions, Congress passed laws to prevent "evil monopolies" and to protect the rights of workers. Its support of labor unions gave workers more bargaining power. New food and drug laws protected people from false claims and harmful products. Government strictly regulated some industries, such as public utilities. All these actions led to a modification of free enterprise.

In summary, government takes part in economic affairs for several reasons. One is to promote and to encourage competition for the benefit of society. Another is to prevent monopolies and reduce the costs of imperfect competition wherever possible. A third is to regulate industries in which a monopoly is clearly in the best interest of the public. A fourth is to fulfill the need for public goods. As a result, today's modified private enterprise economy is a mixture of different market structures, different kinds of business organizations, and varying degrees of government regulation.

Section 3 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 178, explain why the government is involved in economic affairs.
- **2. Key Terms** Define trust, price discrimination, cease and desist order, public disclosure.
- 3. Describe four important antitrust laws.
- **4. Explain** why there is a need for limited government regulation within the economy.
- 5. Describe the value of public disclosure.
- **6. Explain** why the United States has a modified free enterprise economy.

Applying Economic Concepts

7. Public Disclosure Visit a bank in your community and ask for literature describing the computation of interest and conditions for withdrawal on various savings accounts. Why do you think the bank is so forthcoming on these issues?

Critical Thinking

- 8. Synthesizing Information Identify five examples of how government has intervened in your community.
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CRITICAL THINKING

Skill

Finding the Main Idea

Finding the main idea will help you see the "big picture." Organizing information will help you understand and assess the most important concepts.

Learning the Skill

To find the main idea, follow these steps:

- Find out the setting of the article.
- As you read the material, ask "What is the purpose of this article?"
- Skim the material to identify its general subject. Look at headings and subheadings.
- Identify any details that support a larger idea or issue.
- Identify the central issue. Ask "What part of the selection conveys the main idea?"



Chimneys obscured by smoke at coal-fired power plant

Practicing the Skill

Read the excerpt below, then answer the questions that follow.

Does [economic] growth threaten the environment? The connection between growth and environment is tenuous, say growth proponents. Increases in economic growth need not mean increases in pollution. Pollution is not so much a by-product of growth as it is a "problem of the commons." Much of the environment–streams, lakes, oceans, and the air–is treated as "common property," with no restrictions on its use. The commons have become our dumping grounds; we have overused and debased them. Environmental pollution is a case of spillover or external costs, and correcting this problem involves regulatory legislation or specific taxes to remedy misuse of the environment.

There are serious pollution problems. But limiting growth is the wrong solution. Growth has allowed economies to reduce pollution, be more sensitive to environmental considerations, set aside wilderness, and clean up hazardous waste, while still enabling rising household incomes.

> -Alice M. Rivlin, *Reviving the American Dream* Washington Brookings Institutions, 1992

- 1. Who wrote this passage?
- 2. When was it written?
- 3. What was the purpose of this article?
- 4. What is the main idea that the author of the article is expressing?
- 5. What additional details in the excerpt support the main idea?
- 6. Do you find the article persuasive? Explain your response.

Application Activity

CONTENTS

Bring to class a news article that deals with competition in the marketplace. Identify the main idea and explain why it is important.

Practice and **assess** key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Section 1

Competition and Market Structures (pages 163–171)

- **Perfect competition** is a **market structure** with a large numbers of buyers and sellers, identical economic products, independent action by buyers and sellers, reasonably well-informed participants, and freedom for firms to enter or leave the market.
- Perfect competition is a largely theoretical situation used as a benchmark to evaluate other market structures. Market situations lacking one or more of these conditions are called **imperfect competition**.
- Monopolistic competition has all the characteristics of perfect competition except for identical products.
- **Oligopoly** is a market structure dominated by a few very large firms, and the actions by one affects the welfare of others.
- The **monopolist** is a single producer with the most control over supply and price. Various forms of monopoly include the **natural monopoly**, the **geographic monopoly**, the **technological monopoly**, and the **government monopoly**.
- All private firms, regardless of market structure, maximize profits by producing at the level of output where marginal cost is equal to marginal revenue.



Section 2

Market Failures (pages 173–176)

• **Market failures** occur when sizable deviations from one or more of the conditions required for perfect competition take place.

- Three of the five common market failures include *inadequate competition*, *inadquate information*, and *resource immobility*.
- Externalities, or economic side effects to third parties, are a fourth market failure. A negative externality is a harmful side effect and a positive externality is a beneficial side effect.



- Externalities are regarded as market failures because they are not reflected in the market prices of the activities that caused the side effects.
- Finally, a market economy often fails to provide **public goods** such as national defense and public education because it cannot withhold supply from those who refuse to pay.

Section 3

CONTENTS

The Role of Government (pages 178–183)

- The Sherman Antitrust Act of 1890 was enacted to prohibit **trusts**, monopolies, and other arrangements that restrain competition. The Clayton Antitrust Act was passed in 1914 to outlaw **price discrimination**. The Robinson-Patman Act of 1936 was passed to strengthen the price discrimination provisions of the Clayton Antitrust Act.
- **Public disclosure** is used as a tool to promote competition. Any corporation that sells its stock publicly is required to supply periodic financial reports to both its investors and to the SEC.
- Banks are covered by additional disclosure laws and report to various federal agencies.
- Today, government takes part in economic affairs to promote and encourage competition. As a result, the modern economy is a mixture of different market structures, different forms of business organizations, and some degree of government regulation.

Chapter 7 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 7—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Use all the terms below in four paragraphs, with each paragraph describing one of the major types of market structures.

collusion geographic monopoly imperfect competition monopolistic competition natural monopoly oligopoly product differentiation technological monopoly price-fixing monopoly nonprice competition perfect competition

Reviewing the Facts

Section 1 (pages 163–171)

- **1. Describe** the five characteristics of perfect competition.
- **2. Explain** the main characteristics of the monopolistic competitor.
- 3. Contrast the oligopolist and the perfect competitor.
- 4. **Describe** the four types of monopolies.

Section 2 (pages 173–176)

- **5. Explain** what happens when markets do not have enough competition.
- **6. Provide** two examples of inadequate information in a market.

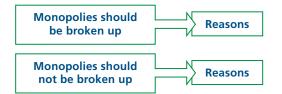
- 7. Explain what is meant by resource immobility.
- **8. Explain** what is meant by positive and negative externalities.
- **9. Account** for the reluctance of the private sector to produce public goods.

Section 3 (pages 178–183)

- 10. Identify four major antitrust laws.
- 11. List 10 major federal government regulatory agencies.
- **12. Explain** how public disclosure is used as a tool to prevent market failures.
- 13. Describe a modified free enterprise economy.

Thinking Critically

1. Drawing Inferences Do you think there would be any advantages to making monopolies or near monopolies break up into smaller, competing firms? If so, what are they? If not, why would there not be? Use a chart like the one below to help you organize the answers to these questions.



- **2. Understanding Cause and Effect** How are natural monopolies prevented from practicing monopolistic practices?
- **3. Making Generalizations** To what extent do you think government should be involved in the free enterprise economy? Defend your answer.
- 4. Finding the Main Idea What problems do the Federal Trade Commission, the Securities and Exchange Commission, and the Consumer Product Safety Commission address?
- **5. Summarizing Information** Why do private producers fail to provide public goods?

CONTENTS

Chapter 7 Assessment and Activities

Applying Economic Concepts

- **1. Market Failures** Explain how your newspaper, with its help-wanted ads and weekly sale prices, helps prevent market failures.
- 2. Market Structures Identify a fast-food product that you consume regularly. Count the number of firms in your community that supply a similar product, and then identify the market structure for that product in your community.
- **3. Free Enterprise** How does the federal government attempt to preserve competition among business enterprises?

Math Practice

The table below shows the price, market demand, market supply, and the surplus and shortage for a firm providing a product under perfect competition. Study the information in the table, then answer the questions.

Price	Market Demand	Market Supply	Surplus/ Shortage
10	600	1550	950
9		1500	780
8	850	1450	
7	990	1400	
6		1350	210
5	1300		0
4	1470		-220
3 2	1650	1200	
2	1840	1150	-690

- 1. Some of the information is missing from the table. Calculate the correct information.
- 2. What is the equilibrium price? How can you tell?
- 3. What price(s) will produce a surplus?
- 4. What price(s) will produce a shortage?

Thinking Like an Economist

Profit Maximization Economists like to analyze decisions incrementally-taking small steps and

analyzing the costs and benefits of the steps as they are made. How is this way of thinking similar to the profit maximization logic illustrated in **Figure 7.1** on page 165?

Technology Skill

Developing Multimedia Presentations Choose a product offered by several producers that is advertised in newspapers or magazines. For one week, clip and save at least three different advertisements about your product. Keep a journal in which you evaluate each advertisement and summarize why you would or would not buy a particular brand. Use your evaluations and a video camera to develop a commercial advertising a product of your choice. Have other students evaluate your commercial for its effectiveness.

Building Skills

Finding the Main Idea Read the excerpt below, then answer the questions that follow.

Monopolistic competition occurs when there are many producers of products that are almost the same. Firms in such a market try to make customers believe that the similar products are actually different. Each producer uses advertising to persuade the customer that his or her brand is superior. Firms that are successful have a monopoly on their name and reputation more than on their product. Customers are willing to pay more for the product because they associate its name with quality or value. Many beauty products, soaps, household cleaners, and over-the-counter medicines fall into this group.

- 1. What is monopolistic competition?
- 2. What main idea is expressed?

CONTENTS

- **3.** What details support the main idea?
- Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

THE FUTURE OF SOCIAL SECURITY

The Social Security Act of 1935 and its later amendments created a social insurance system to help America's most needy: elderly, ill, and unemployed citizens. The core of the program was retirement benefits, funded by taxes on workers and employers, that people could collect when they stopped working at age 65. For decades the system, though criticized, was largely recognized as fundamentally sound.

But in the 1980s the system faced a severe cash shortage: outgoing payments rose faster than incoming taxes. The federal government responded with some changes (such as raising the retirement age from 65 to 67 by the year 2027) that forestalled the problem. But as the baby boomer generation ages, Social Security may be facing another crisis.

Many experts fear that the system will be drained of funds in the twenty-first century, leaving whole generations bereft of benefits. The solution, they say, is the privatization of the system. Others maintain that the problems facing Social Security are overstated and that, while some fine-tuning may be necessary, a fundamental change like privatization is uncalled for, and dangerous.

Who is right? As you read the selections, ask yourself: Is Social Security working, or does the United States need a new system?

ONT

ENTS

PRO Social Security Is Secure

A Case Study:

During the 21st century, when all the Boomers have put work behind them, 20 percent of all Americans will be elderly—a larger percentage than ever before in our history. And these retirees will get Social Security benefits from taxes collected from a much smaller pool of working people....

While it's true that in 2030 there will be fewer workers per retiree than there are today, a more reliable measure is to look at workers per dependent-which means not just the elderly but also those too young to work. Why is this important? Because it allows us to point out, reassuringly, that in 1965, the last year of the Baby Boom, there were 95 dependents for every 100 workers, compared to 71 today and 79 in 2030. If society could

handle the massive needs (education, health care, for example) of our

> generation in our preproductive years, it can manage to see us through our post-productive years as well....

Social Security works because it offers universal coverage. . . . Certainly some people would rake in more money under privatization than they would under the current

ENTERPRISE

system. But others would get less and some would lose everything.... If that doesn't make you uneasy, try this: these privatization schemes would increase taxes and add considerably to the administrative costs of Social Security (which today stand at an almost unbelievable 1 percent compared to 12–14 percent for private sector insurance). Social Security isn't without problems. Quite simply, people are living longer and so there will have to be adjustments like a higher retirement and maybe somewhat lower benefits phased in gradually over decades so no one gets a surprise they can't plan for. But Social Security ain't broke—in the fiscal or structural sense....

-John Shure, Vice President of the Twentieth Century Fund



Back in 1940, when the Social Security program was just getting under way, average life expectancy was less than 64 years. The program's designers expected that many people would contribute to the program most of their lives and die before collecting a dime in retirement benefits.... Today, average life expectancy in the United States is more than 75 years. More important, the population that reaches age 65 is also living longer. An average person that lives to 65 will live for approximately another 17 years....

As life expectancy has soared, birthrates have declined, leaving fewer and fewer workers to support the ballooning number of retirees. In 1950, this pyramid scheme was solidly supported with 16 workers paying for each retiree; today, there are just over three workers per beneficiary. The [Social Security Administration's] own estimates indicate that the ratio of workers to beneficiaries will continue to decrease, reaching just two workers per beneficiary by 2030.



Moreover, those projections ignore one of the most promising facts of our time: Not only does life expectancy continue to grow; the rate of growth is accelerating. From 1940 to 1965, life expectancy for men over age 65 increased by one year; during the next quarter century it grew by 2.1 years...

Social Security needs fundamental reform if it is to cope with our increasing longevity. . . . [A]ll workers should be given the option of redirecting their payroll taxes to personal retirement accounts.

Those accounts, which will be invested in productive enterprises, will grow and all workers will accrue a substantial asset of far greater value than the benefits promised—but not yet paid for—by the current Social Security system.... As the savings rate increases, young innovative companies ... will have easier access to investment capital and will flourish.

> -Carrie Lips, Cato Institute's Project on Social Security Privatization

Analyzing the Issue

- How does Shure's discussion of the "workersper-dependent" ratio suggest that the Social Security system is not in crisis? Why does he oppose privatization of the system?
- 2. What evidence does Lips use to support her argument that "Social Security needs fundamental reform"? Why does she support privatization?
- With which opinion do you agree? Explain your reasoning.

CONTENTS

UNIT 3 Macroeconomics: Institutions

CHAPTER 8 Employment, Labor, and Wages

CHAPTER 9 Sources of Government Revenue

CHAPTER 10 Government Spending

CHAPTER 11 Money and Banking

CHAPTER 12 Financial Markets

Why It's Important

As you read this unit, learn how the study of economics helps answer the following questions:

Why are deductions taken out of your paycheck?

How do taxes pay for your education?

Why does your savings account probably earn less than other investments?

CONTENTS

190 UNIT 3 MACROECONOMICS: INSTITUTIONS

Macroeconomics deals with the total performance of the economy.

CLICK HERE



To learn more about macroeconomics through information, activities, and links to other sites, visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u>

CONTENTS

books

CHAPTER

Employment, Labor, and Wages

8

Economics & You

What level of income do you want to earn after you graduate? Will your current training and skills allow you to reach your income goal? In **Chapter 8**, you will learn about the labor force and employment issues. To learn more about important labor issues, view the Chapter 14 video lesson:

The American Labor Force

ECONOMICS

Chapter Overview Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 8—Chapter Overviews* to preview chapter information.

Labor is human resources—people who produce goods and services.



CLICK HERE

The Labor Movement

SECTION 1

Study Guide

Main Idea

Labor unions are organizations that attempt to improve the working conditions of their members through joint action.

Reading Strategy

Graphic Organizer As you read the section, compare how an industrial union differs from a trade union. Complete a graphic organizer similar to the one below by listing the differences.

Industrial Union	Trade Union

Key Terms

macroeconomics, civilian labor force, craft union, trade union, industrial union, strike, picket, boycott,

lockout, company union, Great Depression, right-towork law, independent union

Objectives

After studying this section, you will be able to:

- 1. Explain why unions are still important today.
- 2. **Discuss** the development of the labor movement from the late 1700s to the 1930s.
- 3. **Relate** labor's successes during the Great Depression.
- 4. **Describe** the major labor developments since World War II.

Applying Economic Concepts

Civilian Labor Force Do you have a part-time job? If so, read to find out more about your role in the civilian labor force.

Cover Story

The Right to Work

The National Right to Work Committee is gearing up for an expensive campaign to hurt Big Labor and has enlisted a majordomo to lead the drive: Sen. Jesse "the Jackhammer" Helms.



Senator Jesse Helms

The North Carolina Republican is calling on anti-unionists to help pass the National Right to Work Act, which he says would "repeal forever Big Labor's power to force workers to pay union dues in order to work."

be placed in newspapers and on TV and radio; friendly columnists will be used to mobilize supporters.... Helms says lawmakers who fight him will pay "the price with the end of their political careers."

—U.S. News & World Report, May 31, 1999

ONTENTS

s the cover story shows, people have passionate feelings about the labor movement. After all, working for a living is one of the single most important things we do. How well we do, as measured by the satisfaction we get and the income we receive, affects virtually every other aspect of our lives. Accordingly, any study of economics that ignores the way the "labor" factor of production earns its income would be incomplete.

The study of labor is part of **macroeconomics.** Macroeconomics is the branch of economics that deals with the economy as a whole, including employment, gross domestic product, inflation, economic growth, and the distribution of income. For example, the population of the United States in 1999 was approximately 274 million people. Slightly more than half, or about 139 million, belonged to the **civilian labor force**—men and women 16 years old and over who are either working or actively looking for a job. The civilian classification excludes members of the armed forces, the prison population, and other institutionalized persons. As you examine **Figure 8.1**, note that nearly 85 percent of those employed had no connection with unions, 13.9 percent were members of unions, and 1.5 percent were nonunion members being represented by unions. Although the percentage of union workers is small, unions are important for two reasons. First, they played a major role in promoting legislation that affects pay levels and working conditions today. Second, unions are a force in the economy, with membership of nearly 16.2 million people.

Historically, unions tended to be concentrated in heavy manufacturing industries. More recently, unions have made inroads in the service sector, especially among government workers. As **Figure 8.2** shows, 42.5 percent of all government workers in 1999 were either unionized or represented by a union.

Early Union Development

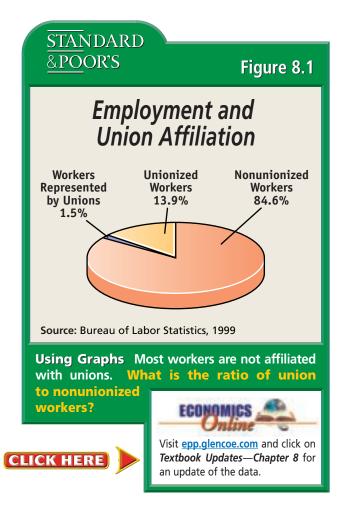
The development of unions in the United States started in the colonial period. From there, unions waged a long uphill struggle that peaked in the 1930s.

Colonial Times to the Civil War

In 1778, printers in New York City joined together to demand higher pay. This protest was the first attempt to organize labor in America. Before long, unions of shoemakers, carpenters, and tailors developed, each hoping to negotiate agreements covering hours, pay, and working conditions. While only a very small percentage of workers belonged to unions, most unions were comprised of skilled workers and possessed strong bargaining power.

Until about 1820, most of America's workforce was made up of farmers, small business owners, and the self-employed. Shortly after, however, immigrants began to arrive in great numbers. Because they provided a supply of cheap, unskilled labor, they posed a threat to existing wage and labor standards.

Even so, public opinion was against union activity and some parts of the country even banned labor unions. Labor organizers often were viewed as troublemakers, and many workers believed they



could better negotiate with their employers on a one-to-one basis.

Civil War to the 1930s

During and after the Civil War, attitudes toward unions began to change. The Civil War led to higher prices, a greater demand for goods and services, and a shortage of workers. Industry expanded, and the farm population declined. Hourly workers in industrial jobs made up about one-fourth of the country's working population. Many of the cultural and linguistic differences between immigrants and American-born workers began to fade, and the labor force became more unified.

Types of Unions

CONTENTS

By the end of the Civil War, two main types of labor unions had come into existence. One was

the **craft union**, or **trade union**, an association of skilled workers who perform the same kind of work. The Cigar Makers' Union, begun by union leader Samuel Gompers, is an example of this type of union. Other, more recent examples are shown in **Figure 8.3** on page 197.

The second type of union was the **industrial union**–an association of all workers in the same industry, regardless of the job each worker performs. The development of basic mass-production industries such as steel and textiles provided the opportunity to organize this kind of union. Because many of the workers in these industries were unskilled and could not join trade unions, they organized as industrial unions instead.

Union Activities

Unions tried to help workers by negotiating for higher pay, better hours and working conditions, and job security. If an agreement could not be reached, workers could **strike**, or refuse to work until certain demands were met. Unions also pressured employers by having the striking workers **picket**, or parade in front of the employer's business carrying signs about the dispute. The signs might ask other workers not to seek jobs with the company, or they might ask customers and suppliers to take their business elsewhere.

If striking and picketing did not settle the dispute, a union could organize a **boycott**-a mass refusal to buy products from targeted employers or companies. If a boycott was effective, it hurt the company's business.

Employer Resistance

Employers fought unions in a number of ways. Sometimes the owners called for a **lockout**, a refusal to let the employees work until management demands were met. Often violence erupted during lockouts, and troops were sometimes brought in to keep peace. At other times, management responded to a strike, or the threat of a strike, by hiring all new workers. Some owners even set up a **company union**-a union organized, supported, or run by employers-to head off efforts by others to organize workers.

Attitude of the Courts

Historically, the courts had an unfavorable attitude toward unions. Under English common law, unions were considered to be conspiracies against business and were prosecuted as such in the United States. Even the Sherman Antitrust Act of 1890, aimed mainly at curbing monopolies, was used to keep labor in line.

ECONOMICS AT A GLANCE

Figure 8.2

Union Membership and Representation by Industry

	Percent of Employed Workers That Are:		
Industry	Members of Unions	Represented by Unions	
Government Worker	s 37.5	42.5	
Communications &			
Public Utilities	26.0	27.4	
Transportation	25.7	26.8	
Construction	17.8	18.4	
Manufacturing	15.8	16.8	
Mining	12.2	13.4	
Wholesale Trade	5.9	6.2	
Services (general)	5.6	6.6	
Retail Trade	5.2	5.6	
Agricultural Wage &	I.		
Salary Workers	1.5	1.8	

Source: Bureau of Labor Statistics, 1999

Using Tables Labor unions are the most influential in the service industries, which include government, communications, public

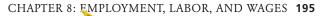
utilities, and transportation. In what industries do unions have few members?

CLICK HERE

CONTENTS



Visit <u>epp.glencoe.com</u> and click on *Textbook Updates—Chapter 8* for an update of the data.



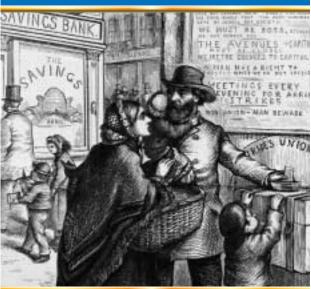
In 1902, the United Hatters Union called a strike against a Danbury, Connecticut, hat manufacturer that had rejected a union demand. The union applied pressure on stores to not stock hats made by the Danbury firm. The hat manufacturer, charging a conspiracy in restraint of trade under the Sherman Act, filed a damage suit in the state court but lost. Later, the Supreme Court ruled that the union had organized an illegal boycott that was in restraint of trade. This ruling dealt a severe blow to organized labor.

The Danbury Hatters case and several subsequent antiunion decisions pushed organized labor to call for relief. The passage of the Clayton Antitrust Act (1914) helped to remedy the situation. The Clayton Act expressly exempts labor unions from prosecution under the Sherman Act.

Labor During the Great Depression

The **Great Depression**—the greatest period of economic decline and stagnation in United States history—began with the collapse of the stock market in October 1929. The economy

Labor Unions



Union Activities Early American labor unions had few rights to organize. *What tactics did the early unions take to improve their working conditions?*

reached bottom in 1933, and did not recover to its 1929 level until 1939.

Unemployment and Wages

During the depths of the Depression as many as one in four workers were without a job. Many who kept their jobs had their pay cut. In 1929, the average manufacturing wage was 55 cents per hour. By 1933, however, wages had plummeted to 5 cents per hour.

The Great Depression brought misery to millions, but it also changed attitudes toward the labor movement. Common problems united factory workers, and union promoters renewed their efforts to organize workers.

Pro-Union Legislation

New legislation aided labor. The Norris-LaGuardia Act of 1932 prevented federal courts from issuing rulings against unions engaged in peaceful strikes, picketing, or boycotts. This forced companies to negotiate directly with their unions, rather than take them to court.

The National Labor Relations Act (NLRA), or Wagner Act, of 1935 established the right of unions to collective bargaining. The act also created the National Labor Relations Board (NLRB), giving it the power to police unfair labor practices. The NLRB also had the power to oversee and certify union election results. If a fair election resulted in a union becoming the employees' bargaining agent, employers were required to recognize and negotiate with it.

The Fair Labor Standards Act (1938) applies to businesses that engage in interstate commerce. The act fixes a federal minimum wage for many workers and establishes time-and-a-half pay for overtime, which is defined as more than 40 hours per week. It also prohibits oppressive child labor, which includes any labor for a child under 16 and work that is hazardous to the health of a child under 18.

Labor Since World War II

CONTENTS

Many Americans viewed organized labor favorably in the 1930s, but public opinion shifted again by the end of World War II. Some people believed that Communists had secretly

ECONOMICS AT A GLANCE Figure 8.3 Trade (Craft) and Industrial Unions Trade (Craft) Unions **Industrial Unions Printers' Electricians' Machinists' Plumbers**⁴ **Carpenters'** Union Union Union Union Union Using Charts Labor unions can be categorized as either trade or industrial unions. How do trade unions differ from industrial unions?

entered the unions. Others were upset by the loss of production resulting from strikes. In 1946 alone, more than 116 million workdays were lost due to work stoppages. People began to feel that management, not labor, was the victim.

Antiunion Legislation

Growing antiunion feelings led to the Labor-Management Relations Act, or Taft-Hartley Act, of 1947. The act puts limits on what unions can do in labor-management disputes. Among its provisions, Taft-Hartley gives employers the right to sue unions for breaking contracts, and prohibits unions from making union membership a condition for hiring.

The Taft-Hartley Act had two other provisions that worked against organized labor. The first was an 80-day cooling-off period that federal courts could use to delay a strike in the case of a national emergency.

The second (Section 14(b)) was a tough antiunion provision, which allowed individual states to pass right-to-work laws. A **right-to-work law** is a state law making it illegal to force workers to join a union as a condition of employment, even though a union may already exist at the company. If a state does not have a right-to-work law, new workers may have to join the existing union as a condition for employment shortly after being hired.

If a state has a right-to-work law, then new hires have the option to join or not to join a union even if the overwhelming majority of workers at the company support the union. As you read earlier, Senator Helms supports a national right-towork law, requiring all states to give workers this option, whether the states want to or not.

In the mid-1900s, other legislation was passed to stop the criminal influences that had begun to emerge in the labor movement. The Labor-Management Reporting and Disclosure Act, or Landrum-Griffin Act, of 1959 tried to protect individual union members from unfair actions of unions and union officials. The act requires unions to file regular financial reports with the government, and it limits the amount of money officials can borrow from the union.

The AFL-CIO

CONTENTS

The American Federation of Labor (AFL) began in 1886 as an organization of craft unions. Later, it added several industrial unions. The trade and industrial unions, however, did not always agree over the future of the union movement. As a result, eight of the AFL industrial unions formed the

Labor Unions



Legislation Three sisters lead the picket line in a demonstration calling for organization of a union. What legislation gave unions the right to engage in collective bargaining?

Committee for Industrial Organization in 1935. Headed by John L. Lewis, president of the United Mine Workers of America, its goal was to bring about greater unionization in industry.

The AFL and Lewis, however, did not get along, so the AFL expelled the Committee for Industrial Organization unions in 1937. Those unions then formed the Congress of Industrial Organizations (CIO). The CIO quickly set up unions in industries that had not been unionized before, such as the steel and automobile industries. By the 1940s, the CIO had nearly 7 million members.

As the CIO grew stronger, it began to challenge the dominance of the AFL. In 1955 the AFL and the CIO joined to form the American Federation of Labor and Congress of Industrial Organizations (AFL-CIO).

Independent Unions

Although the AFL-CIO is a major force, other unions are also important in the labor movement. Many are **independent unions**—unions that do not belong to the AFL-CIO, such as the Brotherhood of Locomotive Engineers.



Student Web Activity Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 8—Student Web Activities* for an activity on labor unions.

Section 1 Assessment

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 193, describe the purpose of labor unions.
- Key Terms Define macroeconomics, civilian labor force, craft or trade union, industrial union, strike, picket, boycott, lockout, company union, Great Depression, right-to-work law, independent union.
- 3. Explain why unions are important today.
- **4. Describe** several reasons for the rise of unions prior to 1930.
- **5. State** why unions became successful during the Great Depression.

6. Describe the major labor developments since World War II.

Applying Economic Concepts

7. Civilian Labor Force How would your participation in the civilian labor force be affected if you joined the armed services?

Critical Thinking

CONTENTS

8. Making Generalizations How did the major legislative acts discussed in the section reflect the rise and decline of the labor movement?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CRITICAL THINKING

Skill

Evaluating Primary and Secondary Sources

Primary sources are original records of events made by people who witnessed them. They include letters, journals, legal documents, drawings, photographs, and artifacts. *Secondary sources* are documents created after an event occurred. They pull together information from many sources and provide an overview of events.

Learning the Skill

To interpret primary and secondary sources, follow these steps:

- Identify the author of the document.
- Identify when and where the document was written.
- Read the document for its content.
- Identify the author's opinions and biases.
- Determine what kind of information the document provides and what is missing.

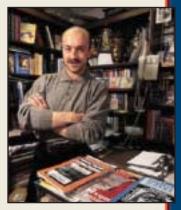
Practicing the Skill

Read the excerpt below, then answer the questions that follow.

For the past two decades, economists and social observers have bemoaned the rapid growth in income inequality in the U.S. Pointing to the widening gap between the wages of high school graduates and those with college degrees, some critics have claimed that the nation is in danger of developing a rigid class system out of sync with traditional American democratic values.

Lately, such concerns have abated. For one thing, there has been a general upgrading of the labor force as more and more Americans have graduated from high school and gone on to college. For another, low unemployment has finally begun to lift the wages of those at the bottom of the income ladder. Still, as a recent study by economist Maria E. Enchautegui of the University of Puerto Rico suggests, there is one group whose economic status may actually deteriorate in the years ahead despite their adherence to the work ethic: low-skilled immigrants.

Between 1980 and 1994, notes Enchautegui, the number of workingage immigrants in the U.S. without a high school degree jumped from 2.8 million to 5.1 million—as the number



Bookstore for Russian immigrants

of U.S.-born high school dropouts fell sharply from 20 million to 13 million...

... The problem is that their very numbers, combined with declining demand for low-skilled workers, are driving their wages down....

-Business Week, June 7, 1999

- 1. When was this document published?
- **2.** What was the general feeling of the person who wrote this document?
- **3.** What economic trend is the writer describing? Is information missing from this passage?

Application Activity

CONTENTS

Look through the letters to the editor in your local newspaper. Prepare a short report analyzing one of the letters. Summarize the context of the article, the writer's motivation, and any primary sources the writer cites.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Resolving Union and Management Differences

SECTION

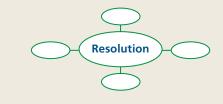
Study Guide

Main Idea

Unions and management negotiate contracts through a process that is known as collective bargaining.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below that describes the different ways labor disputes are resolved.



Cover Story

NBA Ends Lockout

NEW YORK (AP)—The NBA and the players' union reached an agreement today to end the 6-monthold lockout and save what's left of the season....

The league and the union had been fighting over how to divide an estimated \$2 billion in annual revenue....

"I don't think anyone won. Both sides lost on it," Indiana Pacers guard Fred Hoiberg said. "I think it will take some time to get the game back to where it was....



NBA ends lockout

The lockout, in effect since July 1, caused the NBA to miss games because of a labor dispute for the first time in its history. The first three months of the season [have] been scrapped and players have lost about \$500 million in salaries.

-CNN/Sports Illustrated, January 6, 1999

Key Terms

closed shop, union shop, modified union shop, agency shop, grievance procedure, mediation, arbitration, factfinding, injunction, seizure

Objectives

After studying this section, you will be able to:

- 1. Explain the differences among kinds of union arrangements.
- Describe several ways to resolve labor and management differences when collective bargaining fails.

Applying Economic Concepts

Union Arrangements Does the company that you or your parents work for have a union? Read to learn more about the different kinds of unions that exist today.

ver the years, many disputes have occurred between labor and management. Sometimes employees take action against their employer, as during the 1981 air traffic controllers' strike. Sometimes the employer takes action against its employees, as in the case of the 1998–1999 NBA lockout. While the NBA was finally able to settle its difficulties, there are still other ways to resolve the deadlock had they needed them.

Kinds of Union Arrangements

The labor movement has organized workers in various ways to deal more effectively with management. Four kinds of union arrangements are discussed below.

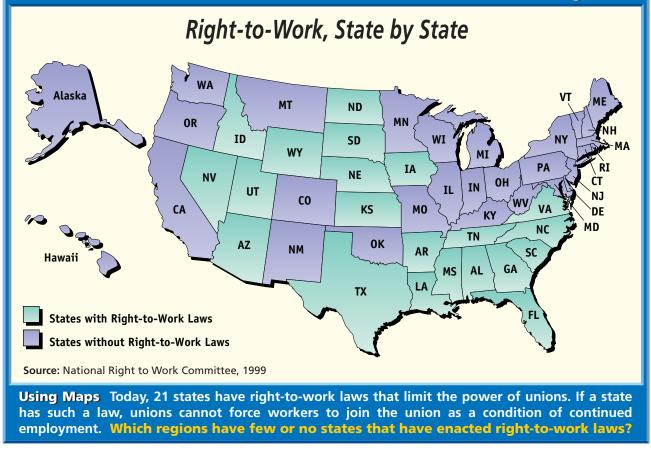
Closed Shops

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The most restrictive arrangement is the **closed shop**, a situation in which the employer agrees to hire only union members. In effect, this allows the union to determine who is hired by giving or denying a person union membership.

ECONOMICS AT A GLANCE

Figure 8.4



Although this kind of union arrangement was common in the 1930s and early 1940s, the Taft-Hartley Act of 1947 made the closed shop illegal for companies involved in interstate commerce. Because most firms in the United States today are directly or indirectly engaged in interstate commerce, few, if any, closed shops exist.

Union Shops

The second arrangement is the **union shop**, an employment situation where workers do not have to belong to the union to be hired, but must join soon after and remain a member for as long as they keep their jobs. Today, the 21 states shown in **Figure 8.4** have taken advantage of Section 14(b) to pass right-to-work laws that prohibit mandatory union membership.

Modified Union Shops

The third kind of arrangement is a **modified union shop.** Under this arrangement, workers do not have to belong to a union to be hired and cannot be made to join one to keep their jobs. If workers voluntarily join the union, however, they must remain members for as long as they hold their jobs.

Agency Shops

CONTENTS

Another arrangement is the **agency shop**-an agreement that does *not* require a worker to join a union as a condition to get or keep a job, but *does* require the worker to pay union dues to help pay collective bargaining costs. Nonunion workers are also subject to the contract negotiated by the union, whether or not they agree with it. Agency

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shops are primarily responsible for the 1.5 percent of employed wage and salary workers represented by unions, as shown in **Figure 8.1**.

Collective Bargaining

When labor and management take part in collective bargaining, representatives from both sides meet. A group of elected union officials represents workers, and company officials in charge of labor relations represent management. Collective bargaining requires compromise from both parties, and the discussions may go on for months.

If the negotiations are successful, both parties agree on basic issues such as pay, working conditions, and benefits. Because it is difficult to anticipate future problems, a **grievance procedure**–a provision for resolving issues that may come up later–may also be included in the final contract. Normally, union and management are able to reach an agreement. If not, other methods are available to resolve the differences.

Careers



Labor Relations Specialist

Are you a people person? Are you patient, fair-minded, and persuasive? Can you function under pressure?

The Work

Labor relations specialists formulate labor policy, oversee indus-

trial labor relations, negotiate collective bargaining agreements, and coordinate grievance procedures to handle complaints resulting from contract disputes. Knowledge about wages and salaries, benefits, pensions, and union and management practices is necessary.

Qualifications

Courses in labor law, collective bargaining, labor economics, labor history, and industrial psychology are essential. Most often, labor relations specialists hold a degree in labor relations.

Mediation

One way to resolve differences is through **mediation**, the process of bringing in a neutral third person or persons to help settle a dispute. The mediator's primary goal is to find a solution that both parties will accept. A mediator must be unbiased so that neither party benefits at the expense of the other. If the mediator has the confidence and trust of both parties, he or she will be able to learn what concessions each side is willing to make.

In the end, the mediator recommends a compromise to both sides. Neither side has to accept a mediator's decision, although it often helps break the deadlock.

Arbitration

Another way to resolve differences is through **arbitration**, a process in which both sides agree to place their differences before a third party whose decision will be accepted as final.

Arbitration is finding its way into areas beyond labor-management relations as well. American Express revised the agreement it had with its credit card holders and now requires disputes to be solved by an arbitrator rather than in the courts. This means that a credit card holder can no longer sue American Express in the event of a dispute-the matter goes to arbitration instead.

Fact-Finding

A third way to resolve a dispute is through **fact-finding**, an agreement between union and management to have a neutral third party collect facts about a dispute and present nonbinding recommendations. This process can be especially useful in situations where each side has deliberately distorted the issues to win public support, or when one side simply does not believe the claims made by the other side. Neither labor nor management has to accept the recommendations the fact-finding committee makes.

Injunction and Seizure

A fourth way to settle labor-management disputes is through injunction or seizure. During a

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dispute, one of the parties may resort to an **injunction**-a court order not to act. If issued against a union, the injunction may direct the union not to strike. If issued against a company, it may direct the company not to lock out its workers. In 1995, after professional baseball players ended their strike and went back to work, the owners promptly called a lockout. The players then got an injunction against the owners, and the 1995 baseball season began-without a labor agreement.

Under extreme circumstances, the government may resort to **seizure**–a temporary takeover of operations–to allow the government to negotiate with the union. This occurred in 1946 when the government seized the bituminous coal industry. While operating the mines, government officials worked out a settlement with the miners' union.

Presidential Intervention

The president of the United States may enter a labor-management dispute by publicly appealing to both parties to resolve their differences. This can be effective if the appeal has public support. The president also can fire federal workers. In 1981 President Ronald Reagan fired striking air traffic controllers because they were federal employees

Labor and Management



Negotiating Washington, D.C., was the scene of a major labor rally in the early 1990s. *What is the process through which unions and management negotiate contracts called*?

who had gone on strike despite having taken an oath not to do so.

The president also has emergency powers that can be used to end some strikes. When pilots from American Airlines went on strike in 1997 during a peak travel weekend, President Clinton used a 1926 federal law, the Railway Labor Relations Act, to order an end to the strike less than 30 minutes after it began.

Section 2 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Using your notes from the graphic organizer activity on page 200, explain the purpose of collective bargaining.
- **2. Key Terms** Define closed shop, union shop, modified union shop, agency shop, grievance procedure, mediation, arbitration, fact-finding, injunction, seizure.
- 3. List four kinds of union arrangements.
- Explain six ways to resolve union and management differences when collective bargaining fails.

Applying Economic Concepts

5. Union Arrangements Contact a firm in your community that has a union. Ask if all

workers in the company are required to join, or if only some are. Based on your information, determine if the union arrangement is a closed shop, a union shop, a modified union shop, or an agency shop.

Critical Thinking

- 6. Sequencing Information If you represented a company during a collective bargaining session, and if negotiations were deadlocked, what course of action would you recommend? Why?
- 7. Making Comparisons How does voluntary arbitration differ from mediation?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CHAPTER 8: EMPLOYMENT, LABOR, AND WAGES 203

Profiles Economics

Labor Giant: John L. Lewis

For more than four decades, John L. Lewis stood as a giant in the American labor movement. As president of the United Mine Workers of America (UMW), his powerful leadership and dynamic style made him an influential—and controversial—figure.

Lewis, the son of Welsh immigrants, had little education. As a young man, Lewis worked in mines, earning a living by his physical strength and ingenuity. He later told a convention of miners, "I have always found that if I could not make a living in one place, I could in another."

As a leading figure in both the UMW and CIO, Lewis was instrumental in using strikes and negotiation to benefit union workers. He succeeded in raising wages and improving working conditions. His concern for the safety and wellbeing of miners was a hallmark of his leadership.

Lewis was often criticized for ruling his union with an iron hand. Yet no one can deny his many contributions to poor workers—or the giant role he played in U.S. labor history.

Acts of Courage: Cesar Chavez (1927-1993)

"The truest act of courage," Cesar Chavez said, "is to sacrifice ourselves for others in a totally nonviolent struggle for justice." Chavez lived by these words. He founded the nation's first successful union for agricultural workers, the National Farm Workers of America (NFWA), in 1962. Its goal was justice for poor, migrant farm workers, largely Hispanic, who were among the most exploited workers in the country.

Chavez learned about the hard life of the migrant worker from bitter, early experience. He first worked in California's farm fields when he was just ten years old. Like other migrant workers, Chavez's family had to move to where work could be found.

CONTENTS

In 1965, Chavez organized a strike of migrant grape pickers in California. Later, Chavez called for a nationwide boycott of California grapes. Under his slogan "Long live the strike!" the union kept the pressure on until, in 1970, the grape growers agreed to recognize the union. The results? Better working conditions and better pay, and a long sought-after voice for migrant workers.

Today, Chavez is revered. His life stands as a symbol for the battle for economic justice.

Examining the Profiles

- Making Comparisons What similarities are there between Lewis and Chavez?
- 2. For Further Research Find out how a clash between Lewis and President Harry Truman led to a government seizure of mines in 1946. Write a newspaper article about the event.

Labor and Wages

SECTION 3

Study Guide

Main Idea

Wages differ for a variety of reasons, including skills, type of job, and location.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing the reasons wages differ from one region to another.



Key Terms

unskilled labor, semiskilled labor, skilled labor, professional labor, noncompeting labor grades, wage rate, traditional theory of wage determination, equilibrium wage rate, theory of negotiated wages, seniority, signaling theory, labor mobility

Objectives

After studying this section, you will be able to:

- 1. Identify four main categories of labor.
- Explain the importance of noncompeting labor grades.
- 3. **Describe** three different approaches to wage determination.

Applying Economic Concepts

Signaling Theory Believe it or not, diplomas have something in common with prices. Read to find out more about the signals they send.

Cover Story

People Are What's Most Important

Rhetoric aside, today we live in a capitalist economy.

Now while the word "capitalist" often conjures up images of those icons to capitalism—large buildings or factories and other



Computer education class

or factories and outer symbols of worth—it is said that today's capitalist economy is built on people.

Nobel economics prize winner Gary Becker... asserted that human capital is the backbone of the capitalist economy and he noted that in the United States, between 17 and 25 percent of the GDP was being spent on the field of education and career training....

training.... He also observed that around the world, advances in technology now favored people with a greater command of knowledge and skills....

-The Bangkok Post, January 27, 1999

The cover story stresses that investment in human capital is one of the more important investments we can make. The extent to which we invest in our own level of skills, experience, and knowledge even affects the way we describe and classify labor.

Categories of Labor

The four major categories of labor are based on the general level of knowledge and skills needed to do a particular kind of job. These categories are unskilled, semiskilled, skilled, and professional.

Unskilled Labor

ONTENTS

Those who work primarily with their hands because they lack the training and skills required for other tasks make up the category of **unskilled labor**. These people work at jobs such as digging ditches, picking fruit, and mopping floors. Unskilled workers are likely to have the least amount of human capital invested in them-and therefore they often earn the lowest wages.

CHAPTER 8: EMPLOYMENT, LABOR, AND WAGES 205

THE GLOBAL ECONOMY

United States	10.9	**	New Zealand	15.7	8	Spain	21.0
United Kingdom	11.5		Italy	17.6		South Africa	27.0
Sweden	14.5		Germany	17.7	۹	Mexico	33.2
Australia	14.6		Japan	17.8			
France	15.2	\$	Israel	21.0			

Percent of Income Spent on Food

How much does food cost you and your family? Depicted here is the percentage of income that the average citizen of the country spends on food.

Source: USDA, United Nations System of National Accounts

Critical Thinking

- 1. Making Comparisons How do the expenditures in the United States compare with those in France?
- 2. Making Generalizations Is the statement "Most nations' citizens spend about 20 percent of their income on food" a valid statement? Why or why not?

Semiskilled Labor

A higher category is **semiskilled labor**—workers with enough mechanical abilities and skills to operate machines that require a minimum amount of training. These workers may operate basic equipment such as electric floor polishers, dishwashers, lawnmowers, and other machines that call for a minimal amount of training.

Skilled Labor

Skilled labor includes workers who are able to operate complex equipment and can perform their tasks with little supervision. These workers represent a higher investment of human capital, especially in the areas of experience and training. Examples include carpenters, typists, tool and die makers, computer technicians, chefs, and computer programmers.

Professional Labor

The final category is **professional labor**, or those individuals with the highest level of knowledgebased education and managerial skills. Examples include doctors, scientists, lawyers, and corporate executives. These people usually have invested the most in their own human capital, and normally earn some of the highest incomes.

Noncompeting Labor Grades

Workers in one labor category generally do not compete with those in another category. For example, unskilled workers do not compete directly with semiskilled and skilled laborers. Because of this, it is useful to think of labor as being grouped into **noncompeting labor grades**, broad categories of labor that do not directly compete with one another because of experience, training, education, and other human capital investments.

This does not mean that some people in one category can never make it to a higher category–workers often do when they acquire additional skills and training. Others, however, often find it difficult to make the transition for reasons of cost, opportunity, and initiative.

Cost is one of the more difficult barriers to advancement. Some individuals have the ability and initiative to obtain additional technical skills, but they may not have the money to pay for the training. Many students have the aptitude to become college



professors, but they lack the resources needed for up to six years of post-college study.

A lack of opportunity poses another barrier. Some people may live in areas where additional training and education are not available. Others may have the resources and grades to enter a specialized program such as law or medical school, but still may not be able to enter because schools have limited openings.

Although they know that more skills are needed to get a better job, other individuals simply lack the initiative to get ahead. These people may never acquire additional training or education because they are not willing to put forth the extra effort.

Wage Determination

Most occupations have a **wage rate**, a standard amount of pay given for work performed. Wage rates usually differ from one occupation to the next, and wages are sometimes different even within the same occupation.

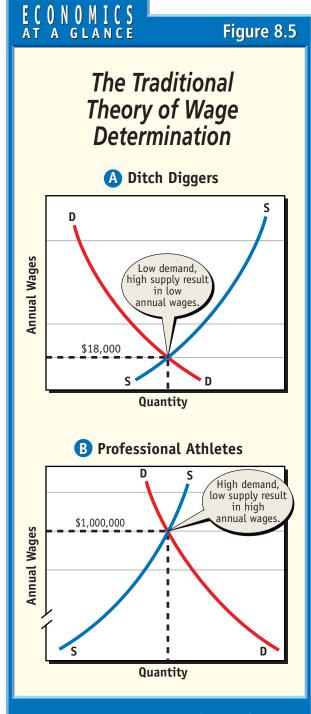
Differences in wage rates can be explained in three ways. The first relies on the traditional tools of supply and demand. The second recognizes the influence of unions in the bargaining process. The third is known as "signaling theory."

Traditional Theory of Wages

Some of the highest paid people are the professional athletes, performers, and managers with skills so exceptional that they are above and beyond the norm in their professions. Their pay can be explained by the **traditional theory of wage determination**. The theory states that the supply and demand for a worker's skills and services determine the wage or salary.

Note that **Panel A** in **Figure 8.5** shows what happens to wages when a relatively large supply of ditch diggers is coupled with a relatively low level of demand. **Panel B** shows what happens when a relatively small supply of professional athletes is paired with a relatively high level of demand. The intersection of supply and demand determines the **equilibrium wage rate**—the wage rate that leaves neither a surplus nor a shortage in the labor market.

In most cases, the higher the level of human capital, the higher the skill of labor required, and the



Using Graphs The market forces of supply and demand explain the equilibrium wage rate for the traditional theory of wage determination. How does this theory differ from the theory of negotiated wages?

ECONOMICS At a glance

Figure 8.6

Median Weekly Earnings by Occupation and Union Affiliation

Occupation	Represented by Unions	Nonunion Workers
Managerial and Profes- sional Specialty	\$774	\$756
Precision Production, Craft and Repair	747	514
Government Workers	688	558
Technical, Sales, and Administrative Support	569	463
Operators, Fabricators, and Laborers	580	381
Farming, Forestry, and Fishing	462	299

Source: Bureau of Labor Statistics, 1999

Using Tables Weekly earnings are significantly higher for highly skilled occupations. Workers represented by unions also make substantially more than their nonunion counterparts. What can you infer about the theory of negotiated wages from Figure 8.6?

higher the average wage rate. Semiskilled workers generally receive more than unskilled workers, and skilled workers receive more than semiskilled or unskilled workers. Professional workers generally earn more than any of the other grades. This relationship is evident in **Figure 8.6**, which ranks occupations in descending order according to the level of skills and training required.

At times, exceptions to the traditional theory may appear to exist. Some unproductive workers may receive high wages because of family ties or political influence. Other highly skilled workers may receive low wages because of discrimination based on their race or gender. In addition, workers and employers do not always know what the market wage rate is or should be.

Theory of Negotiated Wages

Sometimes other theories are useful when explaining wage differentials. The **theory of negotiated wages** states that organized labor's bargaining strength is a factor that helps determines wages. A strong union, for example, may have the power to force higher wages on some firms.

Figure 8.6 helps validate the theory of negotiated wages. The table shows that when workers are either unionized or represented by unions, weekly salaries are significantly higher than for nonunion workers. This situation applies to all occupations except for the "managerial and professional specialty" category, whose members are seldom unionized.

A final factor important to unions and collective bargaining is **seniority**—the length of time a person has been on the job. Because of their seniority, some workers receive higher wages than others who perform similar tasks.

Signaling Theory

The last explanation is known as **signaling theory.** This theory states that employers are willing to pay more for people with certificates, diplomas, degrees, and other indicators or "signals" of superior ability. For example, a sales firm might prefer to hire—or be willing to pay more for—a college graduate with a major in modern dance and a minor in theatre, than a high school graduate who excelled in business courses.

While this may seem odd at first, some firms view the college degree as a signal that the individual possesses the intelligence, perseverance, and maturity to succeed in his or her endeavors.

You might hear from friends and acquaintances that they did not need their high school or college degree to do the job they currently have—as if their education was unimportant. What these people overlook is signaling theory—the theory that helps explain why they got the job in the first place. The theory says nothing about what they needed to know to actually perform the job once they got it.



Regional Wage Differences

Regardless of how wage rates are determined, they can still be different for the same job from one part of the country to another. Labor mobility, cost of living differences, and attractiveness of location can all make a difference.

Skilled workers often are scarce in some parts of the country and abundant in others, causing differences in wage rates. These differences, however, can be minimized by **labor mobility**—the ability and willingness of workers to relocate in markets where wages are higher.

Not all workers are equally mobile. Some are reluctant to move away from relatives. Some may want to move, but find that the cost is too high. Others do not want the inconvenience of buying a new house or renting a new apartment. As a result, the demand for certain skills remains high in some areas and low in others, and so wages tend to vary.

Another factor that affects wages is the cost of living. In many southern states, fresh fruits and vegetables are readily available. In addition, little money is spent on heavy clothing or on heating a home. In Alaska, however, food must be shipped in from thousands of miles away, people must have warm clothing, and every home must be well heated. Because the cost of living is higher in Alaska than in southern states, employers tend to offer higher wages in Alaska.

Finally, location can also make a difference because some places are thought to be so attractive that lower wages can be offered there. A person who likes to hunt and fish may be willing to work for less pay in Colorado or Montana than in New York City. Others may want to flee the busy–and expensive–city life for life in the country.

STANDARD &POOR'S INFOBYTE

Personal Income Personal income is a measure of income that is published by the Department of Commerce. It represents the total income that consumers receive, including most of the national income earned in the production of gross domestic product. It measures wages, salaries and other income sources, including rental income, government subsidy payments, interest income, and dividend income.

Section 3 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 205, explain why wage rates differ among regions.
- 2. Key Terms Define unskilled labor, semiskilled labor, skilled labor, professional labor, noncompeting labor grades, wage rate, traditional theory of wage determination, equilibrium wage rate, theory of negotiated wages, seniority, signaling theory, labor mobility.
- 3. List the four categories of labor.
- **4. Explain** the importance of noncompeting labor grades.
- **5. Describe** three different approaches to wage determination.

Applying Economic Concepts

6. Signaling Theory Look at some help-wanted ads in your local paper. What criteria do they often specify, and how do these criteria relate to signaling theory?

Critical Thinking

- 7. Making Comparisons How does the category of semiskilled labor differ from unskilled labor?
- 8. Making Generalizations If you were a semiskilled worker, what could you do to move into a higher category of noncompeting labor?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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BusinessWeek

APRIL 26, 1999

The passage of the Americans with Disabilities Act in 1990 was the first national civil rights bill for people with disabilities. The law requires all public places to be accessible. It also prohibits job discrimination against persons with physical or mental disabilities. Disputes over the meaning of the act's language have led to challenges in court.

The Disabled and the Marketplace

[I]n recent years, many courts have refused to assist people without serious disabilities. The reason is the language of the ADA, which only covers disabilities that "substantially limit" important activities such as work. Often, judges have interpreted it to exclude anybody whose impairments can be corrected.

That narrow legal reasoning has put many people with treatable disabilities in a Catch-22. Just because someone can lead a relatively normal life doesn't mean they don't face work-

place discrimination as a result of

their disability. "A person is judged too disabled to qualify for work but not disabled enough to be covered by the

Newsclip

act," says Catherine A. Hanssens, director of the Lambda Legal Defense & Education Fund. Taken to its extreme, the employers' position would have the law cover only persons with disabilities so

severe they can barely work, thereby rendering the law almost meaningless....

By narrowly construing the ADA, the courts are preventing many able-bodied people from pursuing productive careers. Consider the case of Vaughn Murphy, who sued



Atlanta-based United Parcel Service Inc. after the company fired him as a truck mechanic in 1994.... His job included road tests of the trucks he fixed, and UPS said Murphy's blood pressure exceeded federal standards for driving. Murphy counters that the driving took up only 1% of his time, so it would not have been expensive to hire another driver.

"Truck work has been my life. When you've dedicated 23 years, it's hard to up and change your occupation," says Murphy, who eventually found another mechanic job. UPS attorney William Kilberg says that Murphy understates the amount of driving that his old job required and that if the Supreme Court rules against the company, it "would be a blow to a company's ability to set quality standards."

-Reprinted from April 26, 1999 issue of *Business Week*, by special permission, copyright © 1999 by The McGraw-Hill Companies, Inc.

Examining the Newsclip

- Analyzing Information How has the government attempted to reduce the effect of discrimination against disabled workers in our society?
- Drawing Conclusions In your opinion, have these efforts been successful? Why or why not?

Employment Trends and Issues

SECTION 4

Study Guide

Main Idea

Important employment issues include union decline, unequal pay, and the minimum wage.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below to explain why *comparable worth* is difficult to apply.



Key Terms

giveback, two-tier wage system, glass ceiling, comparable worth, set-aside contract, part-time worker, minimum wage, current dollars, real or constant dollars, base year

Objectives

After studying this section, you will be able to:

- 1. Explain why union membership has declined.
- 2. **Describe** reasons for the discrepancy in pay between men and women.

Applying Economic Concepts

Minimum Wage Have you ever worked at a job and earned exactly \$5.15 an hour? Read to find out more about the minimum wage.

Cover Story

Two-Tier Pay More Common

Between corporate takeovers and energetic cost-cutting, more workers than ever are finding them-

selves on the same runway as the pilots of American Airlines and its subsidiary, Reno Air: They're working the same jobs for the same employer but taking home vastly different paychecks.



Pilots' pay may show striking differences.

paycnecks. Whether a "two-tier" wage system is the result of a formal union contract, a merger of two companies with different pay practices, or an increasing use of temporary workers . . . such wage differentials create a veritable caste system in the workplace, critics contend. . . .

Employers consider such wages a valuable tool for keeping payrolls under control . . . (but) the concept of tiered wages, which became something of a fad in the 1980s, has become decidedly unpopular among employees.

-The Los Angeles Times, February 28, 1999

mportant issues abound in today's labor market. The two-tier wage structure discussed in the cover story, along with other issues, have an enormous impact on morale—and consequently, productivity—in the economy.

Decline of Union Influence

A significant trend in today's economy is the decline in both union membership and influence. As **Figure 8.7** shows, 35.5 percent of nonagricultural workers were members of unions in 1945. This number fell to 21.9 percent by 1980, and then dropped to under 13.9 percent by 1999.

Reasons for Decline

CONTENTS

Several reasons account for the decline in union membership and influence. The first is that many employers made a determined effort to keep unions out of their businesses. Some activists even hired consultants to map out legal strategies to fight unions. Other employers made workers part of the management team, adding employees to the board of directors or setting up profit-sharing plans to reward employees.

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ECONOMICS AT A GLANCE

Figure 8.7



would you describe the trend of union membership during the 1980s? During the 1990s?

A second reason for union decline is that new additions to the labor force–especially women and teenagers–traditionally had little loyalty to organized labor. Because many of these workers represent second incomes to families, they have a tendency to accept lower wages.

The third and perhaps most important reason for the decline is that unions are the victims of their own success. When unions raise their wages substantially above the wages paid to nonunion workers, some union-made products become more expensive and sales are lost to lower-cost foreign and nonunion producers. This forces unionized companies to cut back on production, which causes layoffs and unions to lose some of their members.

Renegotiating Union Wages

Because unions have generally kept their wages above those of their nonunion counterparts, union wages have been under pressure.

One way employers have been able to reduce union wages is by asking for givebacks from union workers. A **giveback** is a wage, fringe benefit, or work rule given up when a labor contract is renegotiated.

Some companies have been able to get rid of labor contracts by claiming bankruptcy. If a company can show that wages and fringe benefits contributed significantly to its problems, federal bankruptcy courts usually allow a company to terminate its union contract and establish lower wage scales.

Another way to reduce union salary scales is with a **two-tier wage system**-a system that keeps



high wages for current workers, but has a much lower wage for newly hired workers. As noted in the cover story, this practice is becoming widespread in industry, and often has union approval. In Ohio, for example, locals of the International Union of Electronic Workers have multitiered contracts with General Motors, Ford, and Chrysler. One contract even pays starting workers 55 percent of standard pay, and requires 17 years before a worker can reach the top scale.

Lower Pay for Women

Overall, women face a considerable gap between their income and the income received by men. As **Figure 8.8** shows, female income has been only a fraction of male income over a 40-year period—with a 26-percentage-point gap for the most recent year.

This gap has been the subject of much study. In 1998, the President's Council of Economic

Advisors released an extensive report called *Explaining Trends in the Gender Wage Gap* that sheds light on the situation.

Human Capital Differences

According to the report, about one-third of the gap was due to differences in the skills and experience that women bring to the labor market. For example, women tend to drop out of the labor force to raise families, whereas men do not. The report found that working women had lower levels of education than their male counterparts. If these two factors-experience and education-were the same for both men and women, one-third of the wage gap would disappear.

Gender and Occupation

The study also concluded that slightly less than one-third of the wage gap was due to the uneven distribution of men and women among various occupations. To illustrate, **Figure 8.9** shows that

ECONOMICS Figure 8.8 Median Female Income as a Percentage of Male Income



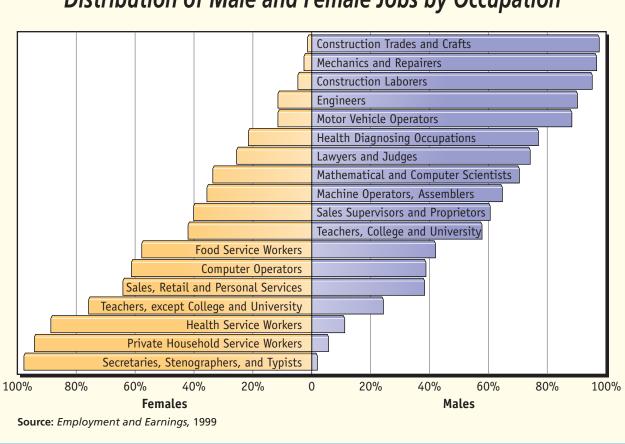
Using Graphs Over the years, the income earned by females has been only a fraction of that earned by males. When did median female income first reach 70 percent of male median income?

CONT

CHAPTER 8: EMPLOYMENT, LABOR, AND WAGES 213

ECONOMICS At A GLANCE

Figure 8.9



Distribution of Male and Female Jobs by Occupation

Using Graphs One of the reasons for the pay differential between the sexes is that men and women are not evenly distributed among occupations. If men tend to cluster in higher-paid occupations, and if women tend to cluster in lower-paid occupations, the average pay for men and women will differ. In what occupations do women make up between 60 and 80 percent of the workforce?

more men enter construction and engineering trades than do women. Likewise, women enter the private household service and office-worker occupations in relatively greater numbers than men.

As long as construction and engineering wages are higher than private household and office worker wages, men, on average, will earn more than women.

Discrimination

The study also found that more than onethird-or about 11 percentage points-of the gap could not be explained. Accordingly, many analysts attribute this to discrimination that women face in the labor market. In fact, women and minorities often feel that their difficulties in getting raises and promotions are like encountering a **glass ceiling**, an invisible barrier that obstructs their advancement up the corporate ladder.

Legal Remedies

Two federal laws are designed to fight wage and salary discrimination. The first is the Equal Pay



Act of 1963 which prohibits wage and salary discrimination for jobs that require equivalent skills and responsibilities. This act applies only to men and women who work at the same job in the same business establishment.

The second law is the Civil Rights Act of 1964. Title VII of this act prohibits discrimination in all areas of employment on the basis of gender, race, color, religion, and national origin. The law applies to employers with 15 or more workers, although it specifically excludes religious associations and their educational institutions.

The Civil Rights Act of 1964 also set up the Equal Employment Opportunity Commission (EEOC). The EEOC investigates charges of discrimination, issues guidelines and regulations, conducts hearings, and collects statistics. If a pattern of discrimination is discovered, the government can bring suit against a company.

Comparable Worth

One measure used to close the income gap between men and women is **comparable worth**, the principle stating that people should receive equal pay for work that is different from, but just as demanding as, other types of work.

In the state of Washington, for example, a federal judge ruled that work performed by social service workers-most of whom were female-was just as demanding as some traditionally male occupations. The judge ordered the state to raise wages and give workers several years' back pay. In Illinois, job evaluators determined that the work done by highway workers was roughly equivalent to that done by nurses.

Comparable-worth decisions are not easy to make because so many factors, such as occupational hazards, educational requirements, and degree of physical difficulty must be taken into consideration.

Some people-including most economists-believe that fair and unbiased comparisons of occupations are almost impossible to make. This group also argues that comparable worth is not needed as long as people are free to obtain training and to enter the profession of their choice. Others argue that comparable worth is necessary to remove gender discrimination in the marketplace. These issues, along with a lack of federal legislation and the reluctance of the courts to interfere with the market, have limited the popularity of comparable worth in the United States. Comparable worth is widely used in Europe and Canada, however.

Set-Aside Contracts

Another corrective measure is the government set-aside contract, a guaranteed contract reserved exclusively for a targeted group. The federal government, for example, requires that a certain percentage of defense contracts be reserved exclusively for minority-owned businesses.

Another example is a 1988 California law requiring that 5 percent of the state's bond contracts be set aside exclusively for women lawyers, bankers, and other females who help place the bonds with investors. Such laws ensure that states do not give all of their business to males in a male-dominated profession.

Most set-aside programs are beginning to add "graduation" clauses that "promote" minorityowned businesses out of the program once they reach a certain size or have received set-aside contracts for a certain number of years. After all, the intent of the program is to give these firms a boost, not a permanent subsidy.

CYBERNOMICS SPOTLIGHT

The End of Work?

CONTENTS

Some analysts in the past contended that the computer age would result in less work for humans. What's happening, however, is that more people are working *more* hours. The average number of hours worked per week has increased from 40 hours in 1973 to 50 hours today. Why is this happening? One explanation is that computers don't replace human thought and endeavor, they extend it. By allowing people to communicate easily at any time from any place, computers increase the amount of time people work.



Big Macroeconomics The magazine *The Economist* uses the price of a McDonald's Big Mac sandwich, converted to U.S. dollars, as an indicator of the comparative value of major world currencies. It operates on the notion that a dollar should buy the same amount in all countries. In July 1999, the average American price (including tax) of the Big Mac was \$2.42. A Big Mac in Switzerland costs the most— \$4.02. The price of the sandwich in the People's Republic of China costs the least—\$1.16. In other words, the Swiss *franc* is the most overvalued currency and the Chinese *yuan* is the most undervalued.

Part-Time Workers

One of the more remarkable trends in the labor market has been the rise in part-time employment. **Part-time workers**—or those workers who regularly work fewer than 35 hours per week account for one out of five jobs in the U.S. economy. In some states, like North Carolina, part-time labor accounts for nearly 25 percent of the workforce.

Reasons for Growth

Part of the reason for the part-time job growth is the evolving nature of the economy. When retail stores stay open for more hours, they often need workers to fill in at odd times—and the checks received by part-time workers are often welcome additions to the family income. Also, the odd hours give some workers the opportunity to do other things, such as take college classes, that would normally interfere with the standard 40-hour workweek.

The use of part-time workers also gives employers more flexibility to schedule workers for peak periods, such as during lunch or supper at fast-food restaurants. Businesses also like the lower cost of part-time workers because they receive few of the health, retirement, and other benefits received by full-time workers. When the savings from these fringe benefits are combined with lower part-time hourly salaries, the sums can be substantial. Figures for 1999 from the Bureau of Labor Statistics show that part-time employee wages and fringe benefits averaged slightly over \$10 per hour, as compared to more than \$20 for full-time workers.

Critics of Part-Time Employment

The arguments against part-time jobs are that wages are too low, and the hours too few, for workers to earn a decent living. In addition, no benefits are offered. Some part-time workers feel that they are being abused by the system and forced to work at inconvenient times. Others feel that the system denies full-time employment to a large number of capable workers.

Unions are especially opposed to part-time workers. The 1997 strike at United Parcel Service (UPS) was partially over this issue. According to the union, lower paid, part-time workers were routinely scheduled into four-hour shifts even though they wanted full-time employment.

The Minimum Wage

The **minimum wage**—the lowest wage that can be paid by law to most workers—was first set in 1939 at \$.25 per hour. As **Panel A** in **Figure 8.10** shows, the minimum wage increased over time until it reached \$5.15 in 1997.

Debate Over the Minimum Wage

The minimum wage has always been controversial. Its original intent was to prevent the outright exploitation of workers and to provide some degree of equity and security to those who lacked the skills needed to earn a decent income.

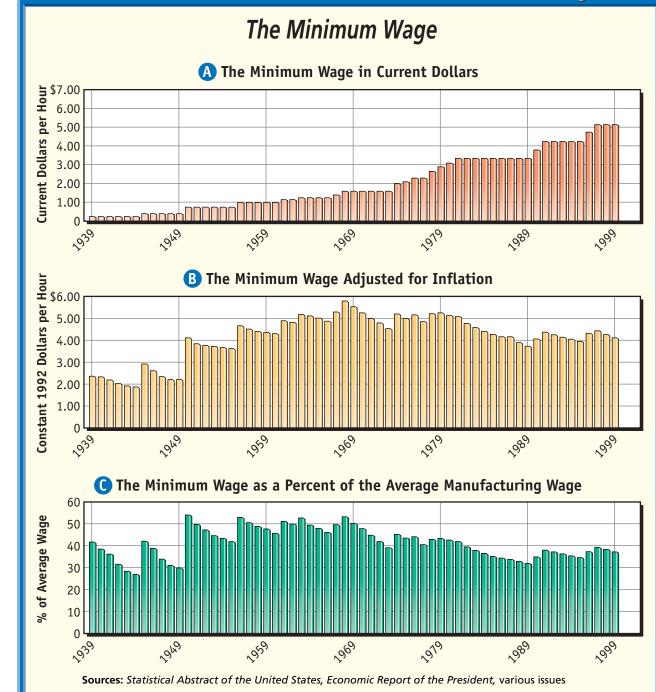
Supporters of the minimum wage argue that these objectives-equity and security-are consistent with the economic goals of the United States. Besides, they say, the wage is not very high in the first place. Opponents of the minimum wage object to it on the grounds of economic freedomalso a U.S. economic goal. This group also believes that the wage discriminates against young people and is one of the reasons that many teenagers cannot find jobs.

Some parts of the country have even instituted their own equivalent of a minimum wage. The city of Los Angeles, for example, has a "living wage" that is substantially higher than the federal minimum wage. Any company doing business with the city is required to pay its workers at least that amount.



ECONOMICS AT A GLANCE

Figure 8.10



Using Graphs The minimum wage is expressed in current dollars in Panel A, adjusted for inflation in Panel B, and as a percent of the average wage for workers in manufacturing in Panel C. Even though the minimum wage was \$3.35 an hour during most of the 1980s, the minimum wage adjusted for inflation decreased. **Explain why this occurred.**

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Measured in Current Dollars

Panel A in **Figure 8.10** shows the minimum wage in **current dollars**, or in dollars that are not adjusted for inflation. The minimum wage is recorded exactly as it was from 1939 to 1999.

When viewed in this manner, it seems as if the minimum wage increased dramatically over time. The figure, however, does not take into account inflation, which erodes the purchasing power of the minimum wage.

Adjusted for Inflation

To compensate for inflation, economists like to use **real or constant dollars**-dollars that are adjusted in a way that removes the distortion of inflation. This involves the use of a **base year**-a year that serves as a comparison for all other years.

Although the computations are complex, the results are not. **Panel B**, using a base year of 1992, shows that the minimum wage had relatively more purchasing power in 1968 than in any other year. As long as the base year serves as a common denominator for comparison purposes, the results would be the same regardless of the base year used.

Panel B also shows that the purchasing power of the minimum wage goes up whenever it increases faster than inflation, as it did in 1997 when the wage

went to \$5.15. However, the minimum wage remained the same in 1998 and 1999 while prices went up, so the wage actually purchased a little less as time went by. As long as the minimum wage remains unchanged, and as long as inflation continues, its purchasing power will continue to decline.

Compared to Manufacturing Wages

In **Panel C**, the minimum wage is shown as a percent of the average manufacturing wage. In 1968, for example, the minimum wage was \$1.60 and the average manufacturing wage was \$3.01. If we divide the two, the minimum wage works out to be 53.2 percent of the manufacturing wage for that year.

When measured in this manner, 1968 was the peak year. After 1968, the ratio slowly declined to approximately 37 percent by 1999. As long as the minimum wage stays at \$5.15, and as long as manufacturing wages continue to go up, this ratio will continue to decline.

The minimum wage will certainly be raised again. What is not certain is when this will happen. When the minimum wage becomes unacceptably low to voters and their elected officials, Congress will increase it. Some people even want to link the minimum wage to inflation, so that the wage will automatically rise when prices rise.

Section 4 Assessment

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 211, write a definition of comparable worth in your own words.
- 2. Key Terms Define giveback, two-tier wage system, glass ceiling, comparable worth, setaside contract, part-time worker, minimum wage, current dollars, real or constant dollars, base year.
- 3. List three reasons for the decline of unions.
- 4. **Describe** three reasons for the income gap between men and women.
- Describe the current trends in part-time employment.

6. Explain why it is necessary to consider inflation when examining the minimum wage.

Applying Economic Concepts

7. Minimum Wage A number of arguments exist both in favor of and against having a minimum wage. With which side do you agree? Why?

Critical Thinking

- **8. Drawing Conclusions** In your opinion, do cultural stereotypes influence the income gap between men and women?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Section 1

The Labor Movement (pages 193–198)

- **Craft or trade unions,** and **industrial unions** were established by the end of the Civil War.
- Unfavorable public attitudes existed toward labor: The Sherman Antitrust Act was used against labor and even the Clayton Act was ignored by the courts.
- Attitudes shifted in favor of labor during the **Great Depression** with the passage of the Norris-LaGuardia Act, the Wagner Act, and the Fair Labor Standards Act.
- Public opinion shifted against labor again after World War II. The Taft-Hartley Act in 1947 limited union activity and allowed states to pass **right-to-work laws.**
- The union movement was dominated by the AFL and the CIO, which merged in 1955 to form the AFL-CIO.

Section 2

Resolving Union and Management Differences (pages 200–203)

- The **closed shop** (now illegal), requires that employers hire only union members selected by the union. The **union shop** requires that an employee join the union shortly after being hired. The **modified union shop** gives the employee the option to join the union after being hired. The **agency shop** requires that workers pay dues to the union, but does not require the workers to join, even though the union represents all workers.
- When collective bargaining fails, several other methods are available to settle labor disputes, including mediation, arbitration, fact-finding, the use of injunctions, and seizure.

Section 3

Labor and Wages (pages 205–209)

- Four noncompeting labor grades are **unskilled labor**, **semiskilled labor**, **skilled labor**, and **professional labor**.
- Workers usually find it difficult to move to a higher income group because of the cost of education and training, the lack of opportunities for education and training, and lack of individual initiative.



• The traditional theory of wage determination uses the market

forces of supply and demand to explain wage rates; the **theory of negotiated wages** argues that the relative strength of a union is a factor; **signaling theory** argues that certificates and diplomas are signals of ability.

• Wages also differ because of **labor mobility**, the cost of living, and attractiveness of work locations.

Section 4

Employment Trends and Issues

(pages 211-218)

- Union membership is declining because of antiunion activities by firms, labor force additions that have little loyalty to labor, and unions that have priced themselves out of some markets.
- Corrective measures include anti-discrimination laws, the principle of **comparable worth**, and **set-aside contracts**.
- Part-time jobs are increasing, providing flexible, low cost options to employers.
- The **minimum wage** has lost much of its purchasing power because of inflation. It is also falling behind when measured as a percent of the average manufacturing wage.

Chapter 8 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 8—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Reviewing Key Terms

Classify each of the terms below as pro-union, antiunion, or neither.

- 1. boycott
- 2. closed shop
- 3. company union
- 4. compulsory arbitration
- 5. fact-finding
- 6. giveback
- 7. grievance procedure
- 8. lockout
- 9. modified union shop
- 10. seizure
- 11. injunction
- 12. picket
- 13. right-to-work law
- 14. agency shop
- 15. strike
- 16. two-tier wage system
- 17. arbitration
- 18. mediation

Reviewing the Facts

Section 1 (pages 193–198)

- 1. **Describe** current union influence in terms of membership and workers represented by unions.
- **2. Compare** the two types of unions in the post-Civil War period.
- **3. Describe** the advances made by unions during the Great Depression.

4. **Outline** the progress of unions since the end of World War II.

Section 2 (pages 200–203)

- 5. **Describe** the four types of union arrangements.
- **6. Explain** five approaches to resolving a deadlock that may occur between a union and a company's management.

Section 3 (pages 205–209)

- **7. Explain** the differences between the four major categories of noncompeting labor.
- 8. Explain why it is so difficult for workers to move from one category of labor to another.
- **9. Compare** the three theories of wage determination.
- **10. Discuss** the reasons for regional wage differences.

Section 4 (pages 211–218)

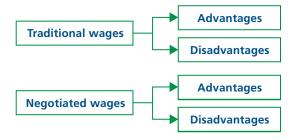
- **11. Explain** why unions have lost members, as well as influence, in recent years.
- **12. Describe** two corrective measures being taken to close the income gap between men and women workers.
- **13. Explain** the popularity of part-time employment.
- 14. **Identify** three ways to evaluate the minimum wage.

Thinking Critically

- 1. Making Generalizations Unions generally argue that the best interests of workers can be served when employees are members of a union. Do you agree or disagree with this statement? Defend your answer.
- **2. Analyzing Information** Some people believe that in today's economy, the theory of negotiated wages is more useful than the traditional theory of wage determination. Explain why you agree or disagree.

Chapter 8 Assessment and Activities

Create webs like the ones below to help you organize your answer.



Applying Economic Concepts

- **1. Civilian Labor Force** As you go to and from school, take note of the various occupations around you. List at least 10 occupations, then classify them according to the four major categories of labor.
- **2. Minimum Wage** Poll at least 10 people of various ages, asking for their opinions on the following statement: There should be no minimum wage. Compile the responses and present your findings to the class.

Math Practice

The Bureau of Labor Statistics issued these statistics on workers between the ages of 16 and 24, who were employed in July 1998: "About 7 in 8 employed youth were wage and salary workers in the private sector this summer, with retail trade (7.4 million) and services (5.8 million) the largest employers. There also were sizable numbers of youth employed in manufacturing (2.2 million) and construction (1.2 million). Government employed a total of 1.5 million young people in July. Nearly 3 in 5 of the young people with government jobs were employed in local governments."

- **1.** Total the number of individuals employed in retail, services, manufacturing, construction, and government.
- **2.** Use the data to create a circle graph that illustrates the percentages of individuals ages 16–24 in the different economic sectors.

Thinking Like an Economist

Economists think of transactions in a market economy as being voluntary, with participants evaluating their decisions *incrementally*, meaning that they evaluate the costs and benefits of every action as they go along. Use this way of thinking to explain the rise of part-time employment.

Technology Skill

Using the Internet Visit the U.S. Department of Labor Web site. Search and find the summary of current employment. Then rewrite the paragraph that follows. Employment (rose/fell/remained unchanged). The unemployment rate stands at (?) percent in the latest month. Average weekly hours (declined/increased/remained unchanged), and average hourly earnings (fell/rose/were unchanged) at the end of the month.

Building Skills

Evaluating Primary and Secondary Sources Economists define wages and wage rates as the price paid for labor. Variations in wages are influenced by differences in workers' skills and nonmonetary differences in jobs. Examine the cartoon below. Explain what economists mean by a "competitive" salary.



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Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook, Level 2.*

CHAPTER

Sources of **Government Revenue**

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Economics & You

Have you wondered or questioned why the paychecks you've seen have so many deductions? In Chapter 9, you will learn more about taxes and revenues raised by all levels of government. To learn about the different types of taxes collected by state and federal governments, view the Chapter 15 video lesson:

How Government Collects



Chapter Overview Visit the Economics: Principles and Practices Web site at epp.glencoe.com and click on Chapter 9-Chapter Overviews to preview chapter information.

While governments receive revenue from a variety of sources, the most important source is taxes.

The Economics of Taxation

SECTION 1

Study Guide

Main Idea

Taxes are the single most important way of raising revenue for the government.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing the criteria for taxes to be effective. Then, define each of the criteria in your own words.



Key Terms

sin tax, incidence of a tax, tax loophole, individual income tax, sales tax, benefit principle of taxation, ability-to-pay principle of taxation, proportional tax, average tax rate, progressive tax, marginal tax rate, regressive tax

Objectives

After studying this section, you will be able to:

- 1. **Explain** the economic impact of taxes.
- 2. List three criteria for effective taxes.
- 3. Understand the two primary principles of taxation.
- 4. Understand how taxes are classified.

Applying Economic Concepts

Equity Read to find out what role equity, or fairness, plays in administering taxes.

Cover Story

Tax Freedom Day

[On] April 15, 1999, the Tax Foundation [made public] its annual calculation of Tax Freedom Day. It is May 11th this year, the latest date ever. When Tax Freedom Day is May 11th across the country, what does that



Many tax dollars go to national defense.

what does that mean? It means that if the government withheld all the money from every American's paycheck starting on January 1, 1999, it would have to continue doing so until May 11 to collect enough to fund government at all levels.

—Tax Foundation, April 15, 1999

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n enormous amount of money is required to run the federal, state, and local governments of the United States. In 1999, all three levels of government collected approximately \$2.8 trillion–or about \$10,300 for every man, woman, and child in the United States. Whether we count the dollars, or the days needed to earn the dollars as illustrated in the cover story, it all adds up to a staggering sum.

Total revenue collections by all levels of government have grown dramatically over the years. **Figure 9.1** shows that these revenues, even when adjusted for inflation and population growth, increased by nearly 800 percent since 1940.

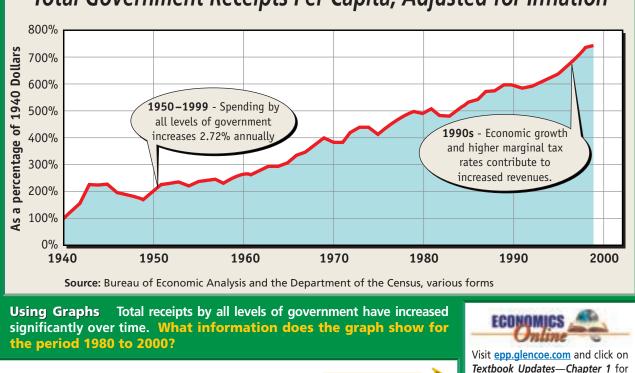
Economic Impact of Taxes

Taxes and other governmental revenues influence the economy by affecting resource allocation, consumer behavior, and the nation's productivity and growth. In addition, the burden of a tax does not always fall on the party being taxed, because some of the tax can be transferred to others.

CHAPTER 9: SOURCES OF GOVERNMENT REVENUE 223

STANDARD &POOR'S

Figure 9.1



Total Government Receipts Per Capita, Adjusted for Inflation

Resource Allocation

The factors of production are affected whenever a tax is levied. A tax placed on a good or service at the factory raises the cost of production, which shifts the supply curve to the left. If demand remains unchanged, the equilibrium price of the product goes up.

People react to the higher price in a predictable manner-they buy less. When sales fall, some firms cut back on production and some productive resources-land, capital, labor, and entrepreneurswill have to go to other industries to be employed.

In 1991, for example, Congress enacted a luxury tax on expensive cars, private aircraft, yachts, and other costly items in order to raise additional tax revenue from the wealthy. Because the demand for luxury goods was elastic, however, higher prices drove customers away, and unemployment soared in some of these industries.

Behavior Adjustment

CLICK HERE

Often taxes are used to encourage or discourage certain types of activities. For example, homeowners are allowed to use interest payments on mortgages as tax deductions—a practice that encourages home ownership. Interest payments on other consumer debt, such as credit cards, is not deductible—a practice that makes credit card use less attractive.

an update of the data.

The so-called **sin tax**–a relatively high tax designed to raise revenue and reduce consumption of a socially undesirable product such as liquor or tobacco–is another example of how a tax can be used to change behavior. Canada used a sin tax in the 1980s when it quadrupled the tobacco tax, pushing the price of a pack of cigarettes to more than \$4, and reducing cigarette consumption by one-third.

Efforts to tax tobacco in the United States, however, show that tobacco, because of its addictive nature, is still an inelastic product. For example, it is



estimated that a \$1 tax per pack is not enough to significantly affect consumption—and thus the government could raise billions of dollars in tax revenues.

Productivity and Growth

Finally, taxes can affect productivity and economic growth by changing the incentives to save, invest, and work. Some people think that taxes are already so high that it affects their incentive to work. Why, they argue, should a person earn additional income if much of it will be paid out in taxes?

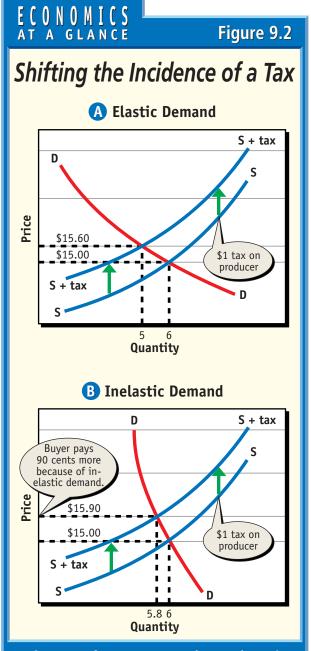
While these arguments have validity, it is difficult to tell if we have reached the point where taxes are too high. For example, even the wealthiest individuals pay less than half of their taxable income to state and local governments in the form of income taxes. Are these taxes so high that they do not have the incentive to earn an additional \$10 million because they can only keep half? Would they work any harder if income taxes only took thirty percent of their income? Or, would they work just as hard if they paid seventy percent of the extra income in taxes?

While we do not have exact answers to these questions, we do know that there must be some level of taxes at which productivity and growth would suffer. This is just one of many reasons why people favor lower taxes.

The Incidence of a Tax

The party being taxed is not always the one that bears the burden of a tax. For example, suppose a city wants to tax a local utility company to raise revenue. If the utility is able to raise its rates, consumers will likely bear most of the burden in the form of higher utility bills. If a company's rates are regulated, and if the company's profits are not large enough to absorb the tax increase, shareholders may receive smaller dividends—placing the burden of the tax on the owners. Another alternative is that the company may postpone a pay raise—shifting the burden of the tax to its employees.

The **incidence of a tax**-or the final burden of the tax-can be predicted with the help of supply and demand analysis. Examine the demand curve in **Panel A** of **Figure 9.2.** You see that it is relatively more elastic than the one shown in **Panel B**, although the supply curves are exactly the same in both. A \$1 tax



Using Graphs A tax on the producer increases the cost of production and causes a change in supply. Less of the tax can be shifted back to the taxpayer if demand is elastic, as in A. More of the tax can be shifted to the taxpayer if demand is inelastic, as in B. Who is likely to bear the greater burden—the producer or the consumer—if a tax is placed on medicine?

STANDARD &POOR'S INFOBYTE

Taxable Income Taxable income is the amount of income that is subject to taxation by the state and federal government. It is the adjusted gross income of wages, salaries, dividends, interest, capital gains, etc., less allowable adjustments deductions, which include but are not limited to contributions to retirement accounts, business expenses, and capital losses.

on the producer in **Panel A** increases the price of the product by 60 cents—which means that the producer must have absorbed the other 40 cents. On the other hand, the demand curve in **Panel B** is relatively inelastic. Here we can see that the exact same tax on the producer results in a 90-cent increase in price, which means that the producer must have absorbed the other 10 cents. The figure clearly shows that it is much easier for a producer to shift the incidence of a tax to the consumer if the consumer's demand curve is relatively inelastic. The more elastic the demand curve, the greater the portion of the tax that will be absorbed by the producer.

In the case of the 1991 luxury tax on private aircraft, the burden of the tax fell on the producer because the demand for small private aircraft was relatively elastic. The unemployment that resulted in the aircraft industry, along with the costs of coping with the unemployment, convinced Congress to remove the tax.

Criteria for Effective Taxes

Some taxes will always be needed, so we want to make them as effective as possible. To do so, taxes must meet criteria: they must be equitable, simple, and efficient.

Equity

The first criterion is equity or fairness. Most people feel that taxes should be impartial and just. Problems arise, however, when we ask, *what is fair?* You might believe that a tax is fair only if everyone pays the same amount. Your friend concludes, on the other hand, that a tax is fair only if wealthier people pay more than those with lower incomes.

There is no overriding guide that we can use to make taxes completely equitable. However, it does make sense to avoid **tax loopholes**—exceptions or oversights in the tax law that allow some people and businesses to avoid paying taxes. Loopholes are a fairness issue, and most people oppose them on the grounds of equity. Taxes generally are viewed as being fairer if they have fewer exceptions, deductions, and exemptions.

Simplicity

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A second criterion is simplicity. Tax laws should be written so that both the taxpayer and the tax collector can understand them. This task is not easy, but people seem more willing to tolerate taxes when they understand them.

The **individual income tax**—the tax on people's earnings—is a prime example of a complex tax. The entire code is thousands of pages long, and even the simplified instructions the Internal Revenue Service (IRS) sends out to taxpayers are lengthy and often difficult to understand. As a result, many people dislike the individual income tax code, in part because they do not fully understand it.

A **sales tax**–a general tax levied on most consumer purchases–is much simpler. The sales tax is paid at the time of purchase, and the amount of the tax is computed and collected by the merchant. Some goods such as food, child care, and medicine may be exempt, but if a product is taxed then everyone who buys the product pays it.



Student Web Activity Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on **Chapter 9—Student Web Activities** for an activity on the individual income tax.

Efficiency

A third criterion for an effective tax is efficiency. A tax should be relatively easy to administer and reasonably successful at generating revenue.

The individual income tax satisfies this requirement fairly well. Whenever someone is paid, the employer withholds a portion of the employee's pay and sends it to the IRS. At the end of the year, the employer notifies each employee of the amount of tax withheld. Because most payroll records are now computerized, neither the employer nor the employee is unduly burdened by this withholding system.

Other taxes, especially those collected in toll booths on state highways, are considerably less efficient. The state invests millions of dollars in heavily reinforced booths that span the highway. The cost to commuters, besides the toll, is the wear and tear on their automobiles. After giving a few quarters and dimes to the attendant, drivers take off again to repeat the process a few miles down the road.

Efficiency also means that the tax should raise enough revenue to be worthwhile. If it does not, or if it harms the economy in other ways, the tax has little value. One example is the luxury tax on small private aircraft in 1991. According to the IRS, only \$53,000 in luxury tax revenues were collected that year because so few planes were sold. This turned out to be less than the unemployment benefits paid to workers who lost jobs in that industry. This is the reason Congress quickly repealed the luxury tax on small aircraft.

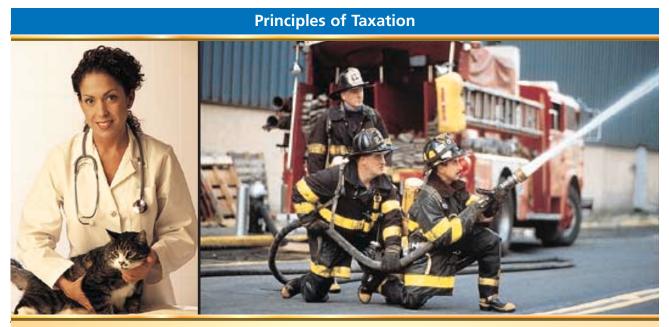
Two Principles of Taxation

Taxes in the United States are based on two principles that have evolved over the years. These principles are the benefit principle and the ability-to-pay principle.

Benefit Principle

Many taxes are based on the **benefit principle of taxation:** Those who benefit from government goods and services should pay in proportion to the amount of benefits they receive.

Think about the taxes you pay for gasoline. Because the gas tax is built into the price of gasoline at the pump, people who drive more than others pay more gas taxes—and therefore pay for



Ability-to-Pay The veterinarian (left) and the firefighters (right) both have to pay taxes. According to the ability-to-pay principle, how is the amount each person has to pay determined?

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more of the upkeep of our nation's highways. Taxes on truck tires operate on the same principle. Because heavy vehicles like trucks are likely to put the most wear and tear on roads, the tire tax is another way to tie the cost of repair and upkeep to the user.

The benefit principle has two limitations. The first is that many government services provide the greatest benefit to those who can least afford to pay for them. People who receive welfare payments or live in subsidized housing, for example, usually have the lowest incomes. Even if they could pay something, they would not be able to pay in proportion to the benefits they receive.

The second limitation is that the benefits often are hard to measure. Are people who pay for gas the only ones who benefit from the roads built with gas taxes? What about property owners whose property increases in value because of the improved access? What about hotel and restaurant

ECONOMICS At <u>a glance</u> owners who profit from tourists arriving by car or bus? These people may buy very little gasoline, but they still benefit from the facilities that the gas tax helps provide.

Ability-to-Pay Principle

The second principle is the **ability-to-pay principle of taxation**—the belief that people should be taxed according to their ability to pay, regardless of the benefits they receive. An example is the individual income tax, which requires individuals with higher incomes to pay more than those with lower incomes.

The ability-to-pay principle is based on two factors. First, it recognizes that societies cannot always measure the benefits derived from government spending. Second, it assumes that people with higher incomes suffer less discomfort paying taxes than people with lower incomes.

Figure 9.3

Type of Tax	Income of \$10,000	Income of \$100,000	Summary		
Proportional	<i>City Occupational Tax</i> \$97.50 or .975% of income	<i>City Occupational Tax</i> \$975.00 or .975% of income	As income goes up, the percent of income paid in taxes <i>stays the same</i> .		
Progressive	<i>Federal Income Tax</i> \$1,000 paid in taxes, or 10% of total income	<i>Federal Income Tax</i> \$25,000 paid in taxes, or 25% of total income	As income goes up, the percent of income paid in taxes <i>goes up</i> .		
Regressive	State Sales Tax \$5,000 in food and clothing purchases, taxed at 4% for a total tax of \$200 or 2% of income.	State Sales Tax \$20,000 in food and clothing purchases, taxed at 4% for a total tax of: \$800 or .8% of income	As income goes, up the percent of income paid in taxes goes down.		

Three Types of Taxes

Using Tables Proportional, progressive, and regressive are the three main types of taxes. Under which type of tax do individuals with lower incomes pay a smaller percentage than do those with higher incomes?

For example, a family of four with an annual taxable income of \$20,000 needs every cent to pay for necessities. At a tax rate of 14 percent, this family pays \$2,800–a huge amount for them. On the other hand, a comparable family with a \$100,000 taxable income could afford to pay a higher tax rate and suffer much less discomfort.

Types of Taxes

Three general types of taxes exist in the United States today—proportional, progressive, and regressive. Each type of tax is classified according to the way in which the tax burden changes as income changes.

A **proportional tax** imposes the same percentage rate of taxation on everyone, regardless of income. If the income tax rate is 20 percent, an individual with \$10,000 in taxable income pays \$2,000 in taxes. A person with \$100,000 in taxable income pays \$20,000.

If the percentage tax rate is constant, the **average tax rate**-total taxable income divided by the total income-is constant, regardless of income. If a person's income goes up, the *percentage* of total income paid in taxes does not change. A **progressive tax** is a tax that imposes a higher percentage rate of taxation on persons with higher incomes. A progressive tax claims not only a larger absolute (dollar) amount but also a larger percentage of income as income increases. Progressive taxes usually use a **marginal tax rate**, the tax rate that applies to the next dollar of taxable income, that increases as the amount of taxable income increases. Therefore, the *percentage* of income paid in taxes increases as income goes up.

Suppose the tax system requires a person to pay \$1,000 on \$10,000 of taxable income, \$4,000 on \$20,000 of taxable income, or \$30,000 on \$100,000 of taxable income. The tax is progressive over this range because the percent of income paid in taxes-10, 20, and 30 percent respectivelyrises as income rises.

A **regressive tax** is a tax that imposes a *higher* percentage rate of taxation on low incomes than on high incomes. For example, a person with an annual income of \$10,000 may spend \$5,000 on food and clothing, while another person with an annual income of \$100,000 may spend \$20,000 on the same essentials. If the state sales tax is 4 percent, the person with the lower income is paying a higher percentage of total income in taxes.

Section 1 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 223, list the ways that taxes influence the economy.
- 2. Key Terms Define sin tax, incidence of a tax, tax loophole, individual income tax, sales tax, benefit principle of taxation, ability-to-pay principle of taxation, proportional tax, average tax rate, progressive tax, marginal tax rate, regressive tax.
- 3. Describe the economic impact of taxes.
- 4. List three criteria used to evaluate taxes.
- 5. Summarize the two main principles of taxation.
- 6. Explain the characteristics of proportional, progressive, and regressive taxes.

Applying Economic Concepts

7. Equity Which of the two principles of taxation—the benefit principle or the ability-topay principle—do you feel is the most equitable? Explain your answer. Be sure to include in your answer how the two principles differ from one another.

Critical Thinking

8. Drawing Inferences Think about the last tax you paid. Using the criteria for progressive, proportional, and regressive taxes, determine which type of tax you think it is and explain why.

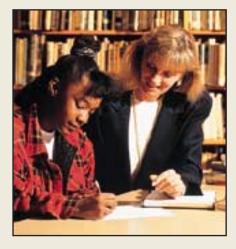
Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

STUDY AND WRITING

Skill

Using Library Resources

Your teacher has assigned a major research report, so you go to the library. As you wander the aisles surrounded by books, you wonder: Where do I start my research? Which reference works should I use?



Deciding where to start your research and which reference works to use are important in doing a research report.

Learning the Skill

Libraries contain many resources. Here are brief descriptions of important ones:

Reference Books Reference books include encyclopedias, biographical dictionaries, atlases, and almanacs.

- An encyclopedia is a set of books containing short articles on many subjects arranged alphabetically.
- A biographical dictionary includes brief biographies listed alphabetically by last names.
- An atlas is a collection of maps and charts for locating geographic features and places. An atlas can be general or thematic.
- An almanac is an annually updated reference that provides current statistics and historical information on a wide range of subjects.

Card Catalogs Every library has a card catalog, either on cards or computer or both, which lists every book in the library. Search for books by author, subject, or title. Computerized card catalogs will also advise you on the book's availability.

Periodical Guides A periodical guide is a set of books listing topics covered in magazines and newspaper articles.

Computer Databases Computer databases provide collections of information organized for rapid search and retrieval. For example, many libraries carry reference materials on CD-ROM.

Internet Libraries can often suggest clearinghouse sites, online databases, and other reputable sites.

Practicing the Skill

Suppose you are assigned a research report dealing with the introduction of the U.S. income tax. Read the questions below, then decide which of the sources described above you would use to answer each question and why.

- **1.** During which year was the federal income tax established?
- 2. What was the purpose of the income tax when it was introduced in 1913?
- 3. How did the public react to the tax?

Application Activity

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Using library resources, research the origins of Social Security taxes. Present the information you find to the class.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

The Federal Tax System

SECTION 2

Study Guide

Main Idea

The federal government raises revenue from a variety of taxes.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below to identify the federal government's most important revenue sources.



Key Terms

payroll withholding system, Internal Revenue Service (IRS), tax return, indexing, FICA, medicare, payroll

tax, corporate income tax, excise tax, luxury good, estate tax, gift tax, customs duty, user fee

Objectives

After studying this section, you will be able to:

- 1. **Explain** the progressive nature of the individual income tax.
- Describe the importance of the corporate tax structure.
- 3. Identify other major sources of federal revenue.

Applying Economic Concepts

Federal Taxes You, the American taxpayer, are the source of most of the money the government spends. Almost all federal government revenue comes from taxation.

Cover Story

The Costs of Taxation

Taxes are often a source of heated political debate. In 1776 the anger of the American Colonies over British taxes sparked the American Revolution. More than two centuries later Ronald Reagan was elected president on a platform of large cuts in personal income taxes, and during his eight years in the White House the top tax rate on income fell from 70 percent to 28 percent. In 1992 Bill



American colonists protested against British taxes and collectors.

Clinton was elected in part because incumbent George Bush had broken his 1988 campaign promise, "Read my lips: no new taxes."

-N. Gregory Mankiw, Microeconomics, 1998

The federal government collects taxes from a number of sources. The most important sources of government revenue are individual income taxes, Social Security taxes, and corporate income taxes.

Individual Income Taxes

In 1913 the Sixteenth Amendment to the United States Constitution was ratified, allowing Congress to levy an income tax. The amendment states that:

The Congress shall have power to lay and collect taxes on incomes, from whatever source derived, without apportionment among the several States, and without regard to any census or enumeration.

Since the amendment was ratified, the federal government has relied heavily on the individual income tax—the tax on people's earnings—to finance its operations. As **Figure 9.4** shows, the federal government collected about 48 percent of its total revenue from taxes on people's earnings.

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Payroll Deductions

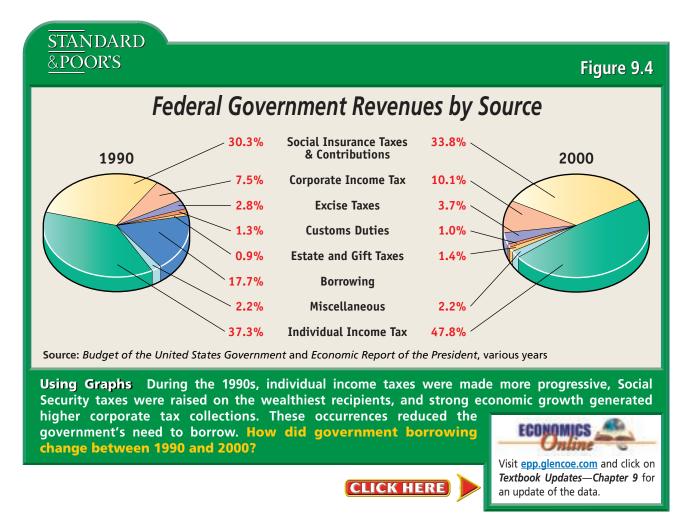
In most cases, the individual income tax is paid over time through a **payroll withholding system**, a system that requires an employer to automatically deduct income taxes from an employee's paycheck and send it directly to the government. The agency that receives the tax payment is the **Internal Revenue Service (IRS)**, the branch of the U.S. Treasury Department in charge of collecting taxes.

After the close of the tax year on December 31, and before April 15 of the following year, the employee files a **tax return**—an annual report to the IRS summarizing total income, deductions, and the taxes withheld by employers. Any difference between the amount already paid and the amount actually owed, as determined by official tax tables like those shown in **Figure 9.5**, is settled when the return is filed. Most differences are caused by deductions and expenses that lower the amount of taxes owed, as well as by additional income received that was not subject to tax withholding.

People who are self-employed do not have money withheld from their paychecks. Instead, they are required to send quarterly estimates of their taxes to the Internal Revenue Service. These individuals must also make a final settlement for the previous year sometime before April 15.

A Progressive Income Tax

The individual income tax is a progressive tax. According to the individual tax tables shown in **Figure 9.5**, single individuals paid a flat 15 percent on all income up to \$26,250. After that, the marginal tax rate jumps to 28 percent, 31 percent, 36 percent, and 39.6 percent, depending on the amount of taxable income. The tax schedule is



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ECONOMICS At a glance

Figure 9.5

Tax Table for Single Individuals	
----------------------------------	--

If the amount on Form 1040, line 39, is <i>over</i>	but not over	enter on Form 1040, line 40		of the am	of the amount over	
\$0	\$26,250			15%	\$0	
\$26,250	\$63,550	\$3,937.50	+	28%	\$26,250	
\$63,550	\$132,600	\$14,381.50	+	31%	\$63,550	
\$132,600	\$288,350	\$35,787.00	+	36%	\$132,600	
\$288,350		\$91,853.00	+	39.6%	\$288,350	
Source: Schedule X, IRS Individual Tax Table						

Using Tables According to the individual income tax table, a single individual with \$20,000 of taxable income would pay \$20,000 x .15, or \$3,000 in taxes. How much in taxes would an individual with \$40,000 of taxable income pay?

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similar for married individuals, with rates scaled so that couples earning higher incomes pay a larger percentage of their income in taxes.

When a tax is progressive, the average tax rate goes up when income goes up. **Figure 9.6** illustrates this point. The single individual with \$10,000 of taxable income pays an average of 15 cents for every dollar earned. If the person has \$35,000 of taxable income, the marginal tax rate is higher (at 28 percent), which raises the average tax on every dollar to 18.3 cents. Likewise, the individual with \$145,000 of taxable income pays an average of 27.8 cents on every dollar.

Indexing

Suppose a worker receives a small raise, just enough to offset the rate of inflation. Although that worker is no better off, the raise may still push the worker into a higher tax bracket. Because of this possibility, the individual income tax has a provision for **indexing**, an upward revision of the tax brackets to keep workers from paying more in taxes just because of inflation.

To illustrate, suppose that a single individual with no dependents had exactly \$26,250 of taxable income in 2000. If the person receives a 5 percent raise the following year to offset expected inflation, the \$1,313 raise would be taxed at the next marginal tax bracket of 28 percent. The result is that the individual gets pushed into a higher tax bracket simply because of inflation. If the bracket is indexed, or adjusted upward by 5 percent, the 28 percent marginal rate for the year 2001 would not apply until \$27,563 is earned.

FICA Taxes

The second most important federal tax is FICA. FICA is the Federal Insurance Contributions Act tax levied on both employers and employees to pay for Social Security and medicare. Medicare is a federal health-care program available to all senior citizens, regardless of income. Employees and employers share equally in paying the tax for Social Security and medicare. These two taxes are also called **payroll taxes** because they are deducted from your paycheck.

Social Security Taxes

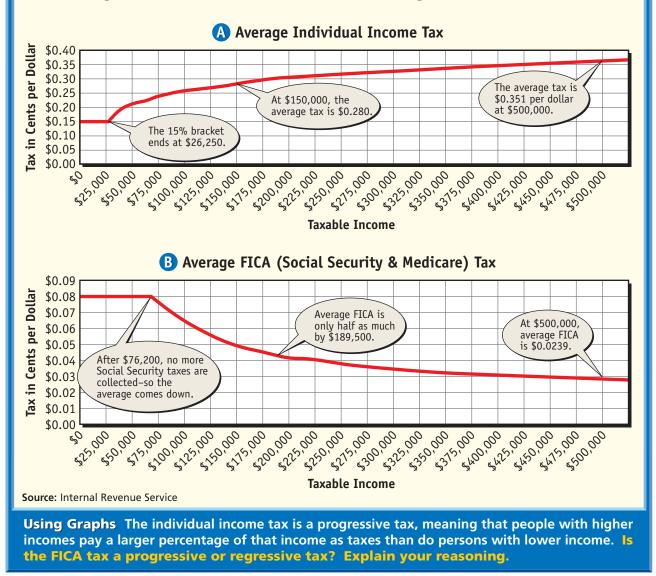
In 2000 the Social Security component of FICA was 6.2 percent of wages and salaries up to \$76,200. After that amount, Social Security taxes are not collected, regardless of income. This means that a person with taxable income of \$76,200 pays a Social Security tax of \$4,724, the same as someone who earns \$1,000,000.

Because the Social Security tax is capped, it is proportional up to \$76,200, and regressive thereafter. For example, a single individual with \$76,200 of taxable income would pay an average of 6.2 cents of Social Security taxes on every dollar earned (.062 times \$76,200). If that same individual

ECONOMICS At A GLANCE

Figure 9.6

Average Individual and FICA Taxes, Single Individuals, 2000



made \$300,000, the average tax per dollar would drop to 1.6 cents (.062 times \$76,200 divided by \$300,000).

Medicare

In 1965 Congress added medicare to the Social Security program. More than 30 million senior citizens participate in medicare. The basic plan pays a major share of an eligible person's total hospital bills. The medicare component of FICA is taxed at a flat rate of 1.45 percent. Unlike Social Security, there is no cap on the amount of income taxed, which means that wealthy individuals pay the same percent of income to medicare taxes as do the poor.

When medicare and Social Security are considered together, as in **Panel B** of **Figure 9.6**, we can see the overall regressive nature of the FICA tax.



For single individuals in 2000, the tax was level at 7.65 percent up to \$76,200, and then declined. A single individual earning \$35,000 in 2000 paid an average FICA tax of 7.65 cents per dollar. If that same individual made \$150,000, the average FICA tax paid dropped to 4.60 cents per dollar.

Corporate Income Taxes

Corporations as well as individuals must pay income taxes. The third largest category of taxes the federal government collects is the **corporate income tax**—the tax a corporation pays on its profits. The corporation is taxed separately from individuals because the corporation is recognized as a separate legal entity.

Several marginal tax brackets, which are slightly progressive, are placed on corporations. The first is at 15 percent on all income under \$50,000. The second is at 25 percent on income from \$50,000 to \$75,000. The third tax bracket is at 34 percent on income starting at \$75,000. Eventually, a 35 percent marginal tax applies to all profits in excess of \$18.3 million.

Other Federal Taxes

In addition to income, FICA, and corporate taxes, the federal government receives revenue in the form of excise taxes, estate and gift taxes, and customs duties.

Excise Taxes

The excise tax—a tax on the manufacture or sale of selected items, such as gasoline and liquor—is the fourth largest source of federal government revenue. The Constitution permits levying excise taxes, and since 1789 Congress has placed taxes on a variety of goods. Some early targets for excise taxes were carriages, snuff, and liquor. Today, federal excise taxes also are found on telephone services, tires, legal betting, and coal. Because low-income families spend larger portions of their incomes on these goods than do high-income families, excise taxes tend to be regressive. In 1991 Congress expanded the excise tax to include certain luxury goods. An economic product is called a **luxury good** (or service) if the demand for the good rises faster than income when income grows. At first, the 19 percent luxury tax was indexed to keep up with inflation and was applied to many goods, including passenger vehicles in excess of \$30,000. The tax was unpopular, however, so boats, aircraft, jewelry, and furs were dropped in 1993. Later, Congress decided to phase out the luxury tax by the year 2002.

Estate and Gift Taxes

An estate tax is the tax the government levies on the transfer of property when a person dies. Estate taxes can range from 18 to 55 percent of the value of the estate. Estates worth less than \$650,000 were exempt in 1999, although this limit will soon be raised to \$1,000,000.

The **gift tax** is a tax on donations of money or wealth and is paid by the person who makes the gift. The gift tax is used to make sure that wealthy people do not try to avoid taxes by giving away their estates before their deaths. As shown in **Figure 9.4**, these two taxes account for only a small fraction of total federal government revenues.

Federal Taxes



Excise Taxes The Constitution permits levying excise taxes. Since 1789 Congress has placed taxes on a variety of goods, including gasoline, coal, and luxury goods. *What are luxury goods*?

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The estate tax and the gift tax are progressive taxes—the larger the estate or gift, the higher the tax rate. In the year 2000, these two taxes accounted for about 1.4 percent of federal government revenue.

Customs Duties

A **customs duty** is a charge levied on goods brought in from other countries. The Constitution gives Congress the authority to levy customs duties. Congress can decide which foreign imports will be taxed and at what rate. Congress, in turn, has given the president authority by executive order to raise or lower the existing tariff rates by as much as 50 percent. Many types of goods are covered, ranging from automobiles to silver ore. The duties are relatively low, and they produce little federal revenue today, although they were the largest source of federal government income prior to 1913.

Miscellaneous Fees

Finally, about 1.9 percent of federal revenue is collected through various miscellaneous fees. Since the 1980s, when taxes were politically unpopular,

user fees-charges levied for the use of a good or service-have been suggested with increasing frequency. President Ronald Reagan was one of the first presidents to aggressively push for user fees instead of taxes.

These fees include entrance charges you pay to visit national parks, as well as the fees ranchers pay when their animals graze on federal land. These fees are essentially taxes based on the benefit principle; politicians just seem to think that we won't recognize them as taxes if they call them "user fees" instead.

CYBERNOMICS SPOTLIGHT

E-Filing

There are benefits to filing taxes online. E-filing speeds up tax-processing time so that computer users can get their refunds twice as fast as those who mail in paper. E-filing also prevents errors, since no IRS keypunchers are needed to type in the information from paper returns. In 1998, 20 percent of taxpayers filed their tax returns online. By the year 2007, the IRS hopes to have 80 percent of returns filed electronically.

Section 2 Assessment

Checking for Understanding

- Main Idea Using your notes from the graphic organizer activity on page 231, list the federal government's most important revenue sources.
- 2. Key Terms Define payroll withholding system, Internal Revenue Service, tax return, indexing, FICA, medicare, payroll tax, corporate income tax, excise tax, luxury good, estate tax, gift tax, customs duty, user fee.
- **3. Describe** the progressive nature of the individual income tax.
- **4. Identify** the main marginal tax brackets in the corporate income tax structure.
- 5. **Describe** the other sources of government revenue.

Applying Economic Concepts

6. Federal Taxes User fees have been compared to taxes based on the benefit principle of taxation. Define user fees in your own words. What are the pros and cons of having user fees as a way to charge admission to national parks?

Critical Thinking

- 7. Categorizing Information Explain and use an example to explain the regressive nature of the current FICA tax.
- 8. Finding the Main Idea What is indexing? What is its purpose?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.



Adviser to a President: Janet Yellen

Janet Yellen, former Chair of the President's Council of Economic Advisers (CEA), has a knack for explaining things. When she was a student pursuing her Ph.D. in economics in the early 1970s, the lecture notes she took became a legend in their own time. The "Yellen Notes," as they were known, were passed around and became the unofficial textbook for several generations of graduate students.

As a member of the Board of Governors of the Federal Reserve, she frequently briefed the White House on labor markets and welfare reform. As a result of these encounters, President Clinton knew just where to look when he needed a new Chair for the CEA in early 1997.

As Chair of the CEA, Yellen's top priorities were a balanced federal budget and welfare reform, including measures that would punish fathers who do not support their children. The distribution of income was another priority. "I'm concerned about rising inequality of earnings and its long-term social implications," Dr. Yellen said. "Education is the answer."

A Powerful Economic Voice: Alice Rivlin

Alice Rivlin, founding director of the Congressional Budget Office (CBO), former Director of the Office of Management and Budget (OMB) in the Clinton administration, and former Vice Chair of the Fed's Board of Governors, is one of the most respected economists in Washington. As a seasoned professional with a wealth of experience, her knowledge of government finance is virtually unparalleled.

She has written extensively and is known for the straightforward-

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sometimes searing-views put forth in her many writings. Rivlin is a blunt and outspoken critic of budget deficits, and argues that spending cannot be brought under control until Congress is willing to reform the politically sensitive spending measures, such as pension systems, subsidies, and other types of transfer payments. Rivlin is now a senior fellow for the Brookings Institute, a Washington-based research group.

Examining the Profiles

- Making Comparisons Compare and contrast the work and views of Yellen and Rivlin.
- 2. Synthesizing Information What significance is there in the fact that both Yellen and Rivlin are women?

State and Local Tax Systems

SECTION 3

Study Guide

Main Idea

State and local governments each rely on different revenue sources.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below by describing why sales taxes are effective ways to raise revenue.



Key Terms

intergovernmental revenue, property tax, tax assessor, payroll withholding statement

Objectives

After studying this section, you will be able to:

- 1. Explain how state governments collect taxes and other revenues.
- 2. Differentiate between state and local revenue systems.
- 3. Interpret paycheck deductions.

Applying Economic Concepts

Sales Tax Read to find out why, when you purchase an item in most states, you pay a fee in the form of a sales tax.

Cover Story

Death Taxes Raise Ire

As opposition grows against the death tax, small business is emerging as the levy's leading adversary.

A decade of strong revenues and record surpluses already threatened federal and state death taxes, a meager government money source to begin with. Furthering the cause is that



Will death taxes doom family-run businesses?

34 states don't tax inherited assets. . . .

The state tax landscape varies greatly, including

both levies on inheritance and estates. . . . Death-tax supporters say eliminating the levy amounts to a taxbreak for the rich. They point out that most people aren't fortunate enough to even be eligible for the tax.

But for small businesses [there is] belief that death taxes prevent family-run enterprises from being passed down to heirs. . . .

-CNNfn, April 13, 1999

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T tate and local governments, like the federal government, raise revenue in many ways. They receive funds from sales taxes, property taxes, utility revenues, and through other methods. Sometimes, as we saw in the cover story, they even tax us when we die.

State Government Revenue Sources

State governments collect their revenues from several sources. Figure 9.7 shows the relative proportions of each source, the largest of which are examined below.

Intergovernmental Revenues

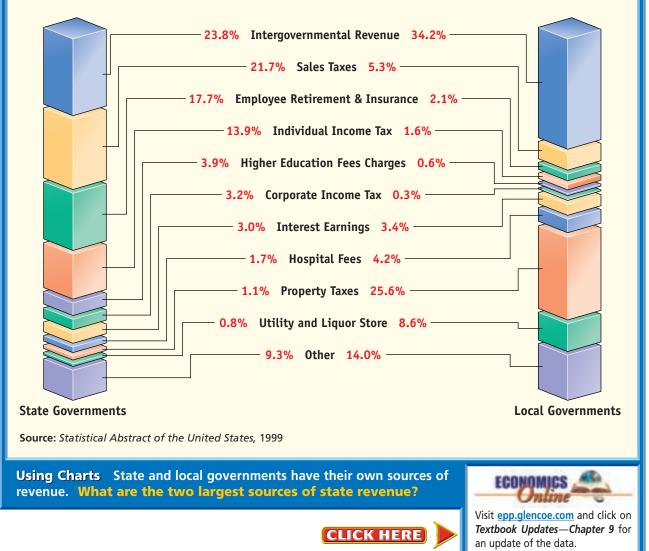
The largest source of state revenue is the category called **intergovernmental revenue**-funds collected by one level of government that are distributed to another level of government for expenditures. States receive these funds from the federal government to help with expenditures on welfare, education, highways, health, and hospitals. As Figure 9.7 shows, they represent nearly one-quarter of all state revenues.



Figure 9.7

ECONOMICS At a glance





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Taxes and Fees

The sales tax is a general tax levied on consumer purchases of nearly all products. The tax is a percentage of the purchase price which is added to the final price the consumer pays. Merchants collect the tax at the time of sale. The taxes are then turned over to the proper state government agency on a weekly or monthly basis. Most states allow merchants to keep a small portion of what they collect to compensate for their time and bookkeeping costs. The sales tax is the second largest source of revenue for states, accounting for 21.7 percent of total revenues collected. Only five states–Alaska, Delaware, Montana, New Hampshire, and Oregon– do not have a general sales tax.

Many states levy taxes, fees, or other assessments on their employees to cover the cost of state retirement funds and pension plans. **Figure 9.7** shows that employee retirement contributions were the third largest source of state revenue. On average, the fourth largest source of state revenues is the individual income tax. Overall, individual income tax revenues are about five times as large as the income tax collected from corporations.

Other Revenues

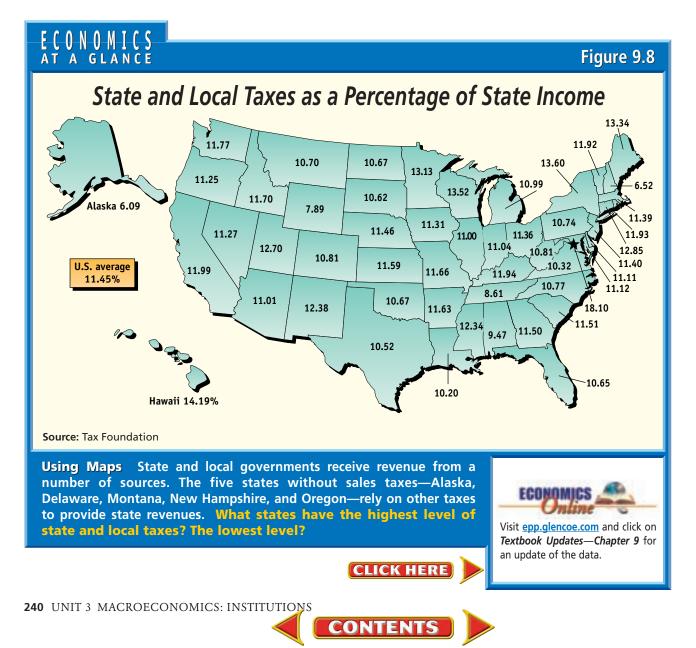
The remaining revenues that state governments collect are interest earnings on surplus funds; tuition and other fees collected from state-owned colleges, universities, and technical schools; corporate income taxes; and hospital fees.

Note that while the percentages in **Figure 9.7** are representative for most states, wide variations

among states still exist. For years, New Hampshire took pride in the fact that it had neither a sales tax nor an income tax. Even so, as **Figure 9.8** shows, the state made up the difference with other types of taxes. The same is true for Alaska, Delaware, Montana, and Oregon-the other four states without a general sales tax.

The Choice of Tax

The choice of tax is something that most states feel strongly about. Sooner or later, however, they all discover that if they do not use one kind of tax, then they have to rely on another. In the end, the



choices that states face are like the choices individuals face—and we already know that there is no such thing as a free lunch.

Nearly three-fourths of the states run public lotteries to raise revenue. Lotteries became the fastestgrowing source of state revenues in the 1980s. The states spend about half the lottery income on prizes and 6 percent on administration.

Local Government Revenue Sources

The major sources of local government revenue are also shown in **Figure 9.7.** These include taxes and funds from state and federal governments. The main categories are discussed below.

Intergovernmental Revenues

Local governments receive the largest part-slightly more than one-third-of their revenues in the form of intergovernmental transfers from state governments. These funds are generally intended for education and public welfare. A much smaller amount comes directly from the federal government, mostly for urban renewal.

ECONOMICS Figure 9.9 Biweekly Paycheck and Withholding Statement Weaver & Higginson 21-2 Number 2,195,903 Date June 25 Pay to the Sara Peña order of Sara Peña Five Hundred Eighty-Six Dollars and 89/100 Dollars

Dollars Memo_ 5:5555555: 555:55555 PLEASE DETACH AND RETAIN THIS PORTION AS YOUR RECORD OF EARNINGS AND DEDUCTIONS Date Pay End Vo. Emp. Hrs Misc. Cr. Gross Ins No. No. Un. 6/7/99 6/18/99 1376 3.20 800 i 00 80 104 70 40 01 4 00 61 20 586 ¹89 FICA Federal State City Other Ret Bonds Net

Understanding Percentages The withholding statement attached to your paycheck summarizes many of the federal, state, and local taxes. Federal and state income tax withholdings are always shown, as is the FICA (Social Security and medicare) tax. Other withholdings may include city income taxes and voluntary deductions, such as health insurance payments and savings plans. What percentage of this individual's pay has been deducted from her paycheck?

Property Taxes

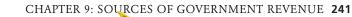
The second largest source of revenue for local governments is the **property tax**—a tax on tangible and intangible possessions such as real estate, buildings, furniture, automobiles, farm animals, stocks, bonds, and bank accounts.

The property tax that raises the most revenue is the tax on real estate. Taxes on other personal property, with the exception of automobiles, is seldom collected because of the problem of valuation. For example, how would the **tax assessor**—the person who assigns value to property for tax purposes-know the reasonable value of everyone's wedding silver, furniture, coin collections, clothing, and other tangible property items? Instead, most communities find it more efficient to hire one or more individuals to assess the value of a few big-ticket items like buildings, real estate, and motor vehicles.

Other Sources

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The third largest source of local revenue is derived from the earnings of public utilities and



state-owned liquor stores. **Figure 9.7** shows that local governments acquired 8.6 percent of their revenues from these sources.

Many towns and cities have their own sales taxes. Merchants collect these taxes right along with the state sales tax, at the point of sale. As indicated in **Figure 9.7**, sales taxes are the fourth most important source of local government revenues.

Local governments also collect a portion of funds in the form of hospital fees and personal income taxes. In general, the revenue sources available to local governments are much more limited than those available to the state and federal levels of government.

Examining Your Paycheck

Many of the taxes you pay to federal, state, and local governments are deducted directly from your paycheck. By examining the **payroll** withholding statement—the summary statement attached to a paycheck that summarizes income, tax withholdings, and other deductions—shown in Figure 9.9, we can identify many of the revenue sources described in this chapter.

The worker to whom the check belongs makes \$10 an hour and receives a check every two weeks. If the

length of the workweek is 40 hours, the worker's gross pay amounts to \$800. The worker is single, has no deductions, and lives and works in Kentucky.

According to withholding tables the federal government supplied for that year, biweekly workers making at least \$800, but less than \$820, have \$104.70 withheld from their paychecks. Similar tables for the state of Kentucky specify that \$40.01 is withheld for state income taxes. Because these are both estimates, and because even minor differences between the amounts withheld and the amount actually owed can grow, the worker will file state and federal tax returns between January 1 and April 15 of 1998 to settle the differences.

Another deduction is the half-percent city income tax that amounts to \$4. Because the amount is relatively small, cities seldom require workers to file separate year-end tax forms.

The federal FICA tax amounts to 7.65 percent (6.20 percent for Social Security and 1.45 percent for medicare) of \$800, or \$61.20. The FICA is deducted from the gross pay, along with \$3.20 in miscellaneous deductions, which leaves the worker with a net pay of \$586.89.

If the worker has insurance payments or retirement contributions, purchases savings bonds, or puts money into a credit union, even more deductions will appear on the paycheck.



Checking for Understanding

- Main Idea Using your notes from the graphic organizer activity on page 238, write a definition in your own words of what intergovernmental revenues are.
- 2. Key Terms Define intergovernmental revenue, property tax, tax assessor, payroll withholding statement.
- **3. Explain** the four major sources of state tax revenues.
- Explain the difference between state and local revenue systems.
- 5. List the major types of state, local, and federal taxes reflected on a paycheck.

Applying Economic Concepts

6. Sales Taxes Why do you think sales taxes are applied to food and beverages purchased at restaurants, but not to food and beverages purchased at grocery stores?

Critical Thinking

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7. Drawing Conclusions State and local governments receive revenue from various sources. Which source do you think best satisfies the tax criteria listed in the chapter? Defend your answer.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

JANUARY 18, 1999

The Sixteenth Amendment, which gives Congress the power to tax people's incomes to generate revenue for the federal government, was added to the Constitution in 1913. Today, taxes are placed on income, sales, and property to raise money for services such as transportation and education.

Do Taxes Spell Good News?

Taxes, as the saying goes, may be as unavoidable as death, but do they have to be so high?

... In recent years, federal individual income and payroll taxes have been claiming an ever larger share of personal income....

As some critics see it, this growing tax bite is squeezing consumers. With more income being siphoned off by taxes, they say, struggling households have had to dip into savings simply to maintain consumption patterns. And the fact that the monthly savings rate recently turned negative for

the first time in 60 years underscores the problem.



Does it? Economist Paul L. Kasriel of Northern Trust Co., who has long favored lower marginal tax rates, is dubious. For one thing, he regards the picture of taxbeleaguered households struggling to

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Newsclip



maintain consumption as highly exaggerated. In actuality, he notes, people have been spending with exuberance. . . .

As for the rising tax take, Kasriel claims that the main cause has been increases in inflationadjusted income, which have been pushing tax filers into higher marginal brackets. . . .

Similarly, more income has become subject to taxation as more households have moved off welfare rolls and onto payrolls in response to welfare reform and a tight labor market. . . .

Finally, Kasriel points to a development others have cited in explaining the falling savings rate and rising tax bite: the huge increase in household net worth generated by the stock market boom. With the value of their past savings and investments rising so rapidly, consumers have felt free to curtail current savings so they can enjoy the fruits of their past thrift now. . . .

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Examining the Newsclip

- **1. Making Inferences** How would having negative monthly savings rates imply that taxes are too high?
- 2. Drawing Conclusions Do you agree with Paul Kasriel's opinion about taxes and lower savings rates? Why or why not?

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Current Tax Issues

SECTION 4

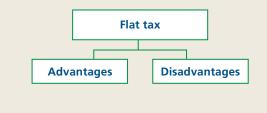
Study Guide

Main Idea

The consequence of tax reform was to make the individual tax code more complex than ever.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below by listing the advantages and the disadvantages of the flat tax. Include a definition of flat tax in your own words.



Key Terms

accelerated depreciation, investment tax credit, surcharge, alternative minimum tax, capital gains, valueadded tax (VAT), flat tax

Objectives

After studying this section, you will be able to:

- 1. **Describe** the major tax reforms since 1980.
- Debate the advantages and disadvantages of the value-added tax.
- 3. Explain the features of a flat tax.
- 4. Discuss why future tax reforms will occur.

Applying Economic Concepts

Flat Tax Have you ever noticed how much time your parents spend filling out their income tax returns? Read to find out what a flat tax would mean to them.

Cover Story

How the Tax Code Got This Way

Every year at this time, Congress discovers, with a great public show of dismay and indignation, the existence of the American tax code and the agency that administers it, the Internal Revenue Service.

There are high-minded calls for abolishing the current tax system and replacing it. . . .

Around April 15, Congress likes to pretend that the tax code just sort of appeared or [just] happened. But the

[just] nappened. But the Constitution puts the burden of taxes solely, exclusively and entirely on Congress' shoulders.

The tax code is the way it is because a majority of Congress wants it that way. Hope you enjoyed this year's tax day.

-Denver Rocky Mountain News, April 16, 1999

The editorial in the cover story sums it up quite well. The complexity of our tax code is not accidental: it is the result of adjustments and amendments by Congress to both influence and reward behavior.

Tax Reform in the 1980s and 1990s

Tax reform has received considerable attention in recent years, due to more changes in the tax code, and more changes in direction, than at any time in our nation's history.

Tax Reform in 1981

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When Ronald Reagan was elected president in 1980, he believed that high taxes were the main stumbling block to economic growth. Accordingly, he proposed the Economic Recovery Tax Act of 1981, which substantially reduced taxes for individuals and businesses.

Before the Recovery Act, the individual tax code had 16 marginal tax brackets ranging from 14 percent to 70 percent. In comparison, today's



IRS employee sorts tax returns

tax code, shown in **Figure 9.5**, has five marginal brackets ranging from 15 to 39.6 percent. The 1981 act lowered the marginal rates in all brackets, but, more importantly, it capped the highest marginal tax wealthy individuals paid at 50 percent.

Businesses also got tax relief in the form of **accelerated depreciation**-larger than normal depreciation charges-which allowed firms to reduce federal income tax payments. Another section of the act introduced the **investment tax credit**-a reduction in business taxes that are tied to investment in new plant and equipment. For example, a company might purchase a \$50,000 machine that qualified for a 10 percent, or \$5,000, tax credit. If the firm owed \$12,000 in taxes, the credit reduced the tax owed to \$7,000.

These provisions produced a dramatic impact on the federal budget. In 1980, the proportion of total federal government revenues from the corporate income tax was 12.5 percent. This dropped to 10.2 percent in 1981, and then to 8.0 percent in 1982, and finally to 6.2 percent in 1983.

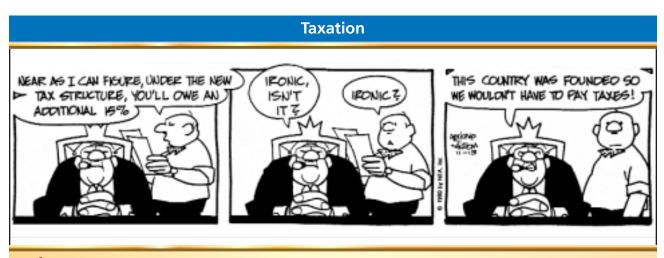
Tax Reform: 1986, 1993

By the mid-1980s, the idea that the tax code favored the rich and powerful was gaining momentum. In 1983 more than 3,000 millionaires paid no income taxes. Additionally, many corporations were able to legally avoid paying taxes. Boeing, ITT, General Dynamics, Transamerica, and Greyhound were profitable from 1981 to 1984. Instead of paying corporate income taxes, however, these companies applied tax losses in earlier years to current profits—and then collected tax *refunds* during each of those four years.

In 1986 Congress passed the most sweeping tax reform act since income taxes were enacted in 1913. First, it ended the traditionally progressive individual income tax structure by reducing the 16 marginal tax brackets to two brackets (essentially the 15 percent and 28 percent brackets in Figure 9.5). Then, a 5 percent surcharge–or additional tax above and beyond the base rate–was added to bring the top bracket to 31 percent.

The law also made it difficult for the very rich to avoid taxes altogether. The **alternative minimum tax**—the personal income rate that applies whenever the amount of taxes paid falls below some designated level—was strengthened. Under this provision, people had to pay a minimum tax of 20 percent, regardless of other circumstances or loopholes in the tax code.

Finally, the reform act shifted about \$120 billion of taxes from individuals to corporations over a five-year period by removing a number of tax breaks for business. As a result, the proportion of total federal government revenues from the corporate



Reform Some people think any tax is too high, but this viewpoint is not very realistic. *What tax credits were part of the Taxpayer Relief Act of 1997?*

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income tax increased to 9.8 percent in 1987, and to 10.3 percent in 1988–percentages much closer to the 10.1 percent shown in **Figure 9.4**.

As the United States entered the 1990s, the impact of 10 years of tax cuts was beginning to show. Government spending was growing faster than revenues, and the government had to borrow more.

The Omnibus Budget Reconciliation Act of 1993 was driven more by the need for the government to balance its budget than to overhaul the tax brackets. As a result, the law added the two top marginal tax brackets of 36 and 39.6 percent, shown in **Figure 9.5.**

Tax Reform in 1997

In 1997 the largest tax reduction since the 1981 act was passed. The law was known as the Taxpayer Relief Act of 1997, and the forces that created it were both economic and political.

On the economic side, the government found itself with unexpectedly high tax revenues in 1997. The higher marginal tax brackets introduced in 1993, along with the closure of some tax loopholes, meant that individuals and corporations paid more taxes than before. In addition, unexpectedly strong economic growth resulted in an increased number of people and businesses paying taxes.

On the political side, the balance of power had dramatically shifted in the 1996 elections. Both political parties felt they had commitments to fulfill to the people who had voted them into office. For many Republicans, this meant a tax break for people with long-term investments in stocks, bonds, and other assets. The tax on **capital gains**profits from the sale of an asset held for 12 months-was reduced from 28 to 20 percent. Inheritance taxes-the so-called "death taxes" discussed in the cover story on page 244-were also lowered, which tended to favor the well-to-do.

The tax reductions reflected the "family-friendly" theme of the 1996 elections. Tax credits of \$500 per child and other deductions for educational expenses were included in the legislation. The marginal tax brackets in **Figure 9.5** remained unchanged, however, which resulted in an unbalanced distribution of tax cuts. People who had neither children nor capital gains from the sale of houses, stocks, or bonds received virtually no benefit.

In the end, an analysis by the United States Treasury Department determined that nearly half of the benefits went to the top 20 percent of wage and income earners. The lowest 20 percent received less than 1 percent of the tax reductions. With all its categories, the 1997 federal tax law became the most complicated ever.

The Value-Added Tax

Some people want to change the personal income tax; others want to scrap it altogether. One controversial proposal is to shift the tax from income to consumption. This shift would be accomplished with the use of a **value-added tax** (VAT)-a tax placed on the value that manufacturers add at each stage of production.

The VAT has the potential to raise enormous amounts of revenues for the federal government. The United States currently does not have a VAT, although it is widely used in Europe.

The Concept of Value Added

The production of almost any good or service involves numerous steps. Consider wooden baseball bats. First, loggers cut the trees and sell the timber to lumber mills. Then the mills process the logs for sale to bat manufacturers. The manufacturers then shape the wood into baseball bats.

After the bats are painted or varnished, they are sold to a wholesaler. The wholesaler sells them to retailers, and retailers sell them to consumers. The whole process is illustrated in Figure 9.10. The first column of numbers shows the value added at each stage of production. With the VAT, the consumer ends up paying \$11 for each bat.

Did you know?

Tax Freedom Day It takes 40 days, on average, for most Americans to earn enough money to pay for their food supply for the entire year. It takes the average American 129 days—until the second week of May—to earn enough money to pay federal, state, and local taxes for the year.

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Advantages of a VAT

As a way of raising revenue, the VAT has several advantages. First, it is hard to avoid because the tax collector levies it on the total amount of sales less the cost of inputs. Second, the tax incidence is widely spread, which makes it harder for a single firm to shift the burden of the tax to another group.

Third, the VAT is easy to collect because firms make their VAT payments to the government along with their regular tax payments. Consequently, even a relatively small VAT can raise a tremendous amount of revenue, especially when it is applied to a broad range of products. Finally, some supporters claim that the VAT would affect people's behavior in a manner that encourages them to save more than they do now. After all, if none of your money is taxed until it is spent, you might prefer to spend less—and save more—than you do now.

Disadvantages of a VAT

The main disadvantage of the VAT is that it tends to be invisible to consumers. In the baseball bat example, consumers may be aware that bat prices went from \$10 to \$11, but they might attribute this to a shortage of good wood, higher wages, or some other factor. In other words, consumers

ECONOMICS AT A GLANCE

Figure 9.10

		No Taxes		With a 10% Value-Added Tax	
		Value Added	Cumulative Value	Value Added with a 10% VAT	Cumulative Value with VAT
Step 1	Loggers fell trees and sell the timber to the mills for processing.	\$1	\$1	\$1 + \$.10 = \$1.10	\$1.10
Step 2	The mills cut the timber into blanks that will be used to make bats.	\$1	\$2	\$1 + \$.10 = \$1.10	\$2.20
Step 3	Bat manufacturers shape, paint, or varnish the bats and sell them to wholesalers.	\$5	\$7	\$5 + \$.50 = \$5.50	\$7.70
Step 4	The wholesalers sell the bats to retail outlets where consumers can buy them.	\$1	\$8	\$1 + \$.10 = \$1.10	\$8.80
Step 5	The retailers put the bats on the shelves and wait for the consumers.	\$2	\$10	\$2 + \$.20 = \$2.20	\$11.00
Step 6	The consumer buys the bat for:		\$10.00		\$11.00

The Value-Added Tax

Using Tables The VAT is like a national sales tax added to each stage of production. As a result, it is built into the final price of a product and is less visible to consumers. Is a VAT regressive, proportional, or progressive? Why?

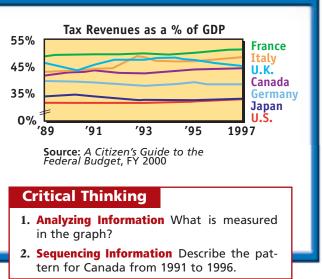
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High Taxes? Are You Sure?

The ratio of tax revenues to the GDP is one measure of a country's tax burden.

Have you ever thought about living in another country to avoid high taxes in the United States? If you did move, you would be in for a surprise. For all the complaints about high taxes, our federal government's revenues as a percentage of GDP are much lower than many people realize. In fact, the rate is one of the lowest in the industrial world.



cannot be vigilant about higher taxes when they cannot see them.

Another difficulty is that the VAT would compete with state sales taxes. Because the VAT is a federal tax, adding a VAT is like adding a federal sales tax to already-existing state taxes. If some of these bats were sold in Indiana, Arizona, or Texas, would those states want to forgo their sales tax simply because a federal VAT was in place? Or would those states simply add their own sales taxes, thereby raising the price to \$11.50 or even higher?

The Flat Tax

The concept of a **flat tax**–a proportional tax on individual income after a specified threshold has been reached–did not receive much attention until Republican candidate Steve Forbes and others raised the issue in the 1996 presidential elections. Supporters promoted the flat tax as a way to both simplify taxes and stimulate growth.

A "Progressive" Flat Tax?

A pure flat tax would tax all income at a specific rate, such as 15 or 20 percent. Since the lowest tax rate for all Americans is already 15 percent, critics viewed the proposal as a way to provide tax breaks for the wealthy. As a result, most flat tax proposals exempt some income.

Consider a 15 percent flat tax that exempts the first \$20,000 of income. According to this system, a person with exactly \$20,000 pays nothing in taxes, and therefore has a zero average tax rate. Someone who earns twice as much would pay nothing on the first \$20,000, and 15 percent on the next \$20,000. Taxes would amount to \$3,000, for an average tax rate of 7.5 percent (\$3,000 divided by \$40,000). Likewise, someone who earned \$60,000 would pay \$6,000 (15 percent of \$40,000), and have an average tax rate of 10 percent (\$6,000 divided by \$60,000).

Because the average tax in the example above–0, 7.5, and 10 percent respectively–increases as income increases, the tax is progressive. As a result, a flat tax can be progressive as long as some income is exempted.

Advantages of the Flat Tax

The primary advantage of the flat tax is the simplicity it offers to the taxpayer. A person would still have to fill out an income tax return every year, but many current procedures, such as itemizing deductions, could be skipped.



A second advantage is that a flat tax closes or minimizes most tax loopholes. Under today's tax code, for example, the donation of a single artwork can substantially reduce a millionaire's tax liability.

A third advantage is that a flat tax reduces the need for tax accountants, tax preparers, and even large portions of the IRS. Overall, the savings to everyone could be as high as \$100 billion annually.

Disadvantages of the Flat Tax

The first disadvantage of the flat tax is that it removes many of the behavior incentives already built into the tax code. For example, the current tax code allows homeowners to deduct interest payments on home mortgages. Other incentives include deductions for donations to charitable organizations, and education and training.

Eliminating these incentives is likely to encounter some resistance. For example, *Money Magazine* warned that a 15 percent flat tax would hurt homeowners because they could no longer deduct mortgage interest payments. The writer also noted that, "under his own plan, multimillionaire Steve Forbes could see his personal tax bill cut by almost two-thirds." This, of course, highlights the second problem with the flat tax–namely that it will benefit those with high incomes at the expense of lower-income individuals.

To illustrate, suppose that a single individual has \$50,000 of taxable income and is subject to the tax rates shown in **Figure 9.5**. Taxes for this individual would amount to \$3,862.50 plus 28 percent of the difference between \$50,000 and \$25,750-for a total tax bill of \$10,653. Under a 15 percent flat tax that exempts the first \$40,000, the same individual would owe taxes of \$1,500-a total tax saving of \$9,153!

On the other hand, if that same person had taxable income of \$1,000,000, the total amount of taxes owed according to **Figure 9.5** would be \$374,073. Under the same 15 percent flat tax plan, the individual would owe \$144,000 instead-for a tax saving of \$230,073.

Who benefits the most? The person with a \$50,000 income who gets an 86 percent tax reduction and saves \$9,153, or the person with a \$1,000,000 income who gets a 61.5 percent tax reduction and saves \$230,073? Any flat tax, regardless of the size of

the up-front exemption, is a dramatic shift away from the ability-to-pay principle of taxation.

Flat Tax Proposals

Several congressional candidates during the 1996 election campaign presented various flat tax proposals. Shortly after the election, Republican House Majority Leader Dick Armey presented his version. Armey's plan offered a 17 percent flat tax on individual income that would exempt the first \$35,400 earned by a family of four. Businesses would also be subject to a 17 percent tax rate.

Would taxpayers be better off under this proposal? The answer depends on how much you make and how you make it. For example, only labor income from wages, tips, salaries, and pensions would be taxed under the Armey plan. Incomes from dividends, interest, and capital gains are excluded. Critics argued that these exclusions-especially capital gains-favored the wealthy.

Careers

Public Accountant

Accountants prepare, analyze, and verify financial reports that provide information to the general public and to business firms.

The Work

They check clients' financial records, ensuring that they conform to standard procedures for reporting. They



give advice on tax advantages and disadvantages, on setting up an accounting system and on managing cash resources, and they prepare income tax statements.

Qualifications

CONTENTS

Most firms require applicants to have, at the minimum, a bachelor's degree in accounting or some closely related field. Accountants must be good at mathematics, be able to compare, analyze, and to interpret numbers and facts, and to make sound judgments.

House Minority Leader Dick Gephardt countered Armey's proposal with a "10% Plan." Under Gephardt's plan, a family of four would pay no taxes on income up to \$27,500, and then would pay at a 10 percent rate up to \$61,000. After that level, the marginal tax bracket would increase in increments to the maximum rate of 34 percent.

Would a flat tax stimulate economic growth? Critics point out that the extraordinary growth of the American economy in the 1990s, the longest period of peacetime prosperity in our history, sheds doubt on the claim that the current system hinders growth.

Second, no one knows exactly what rate is needed to replace the revenues already collected under the current system. Estimates by economists who proposed the tax, as well as estimates done by the United States Treasury, place the tax closer to 23 percent-which represents more of a burden on low-income earners.

The Inevitability of Future Reforms

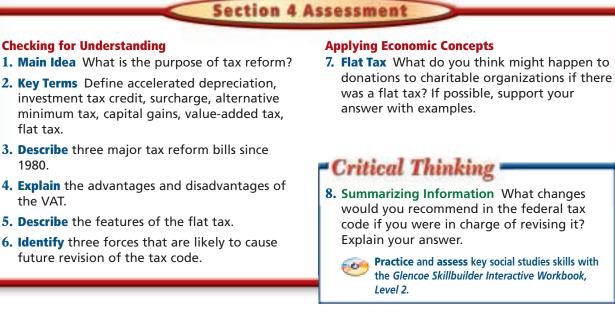
There were more changes, additions, dele-In tions, exceptions, and exclusions made to the federal tax code in the 1980s and 1990s than at any time in our history. Several factors ensure further change.

First, the tax code is more complex now than ever-a fact that guarantees future attempts to simplify it. The flat tax movement, for example, has moved beyond the point of being a campaign strategy to the stage where Congress is seriously considering such a tax.

Second, the strong economy of the 1990s resulted in record tax collections. For the first time in 30 years, the government collected more revenues than it spent. As a result, many political leaders began to consider ways to lower taxes.

Third, political change is not like economic change, which is gradual and generally evolutionary. Political change is more abrupt, with less continuity from one period to the next, as one party leaves office and another enters. New administrations often display a sense of urgency, a desire to finally do things the "right" way, or to clean up the excesses of their predecessors.

Yet, dramatic change is tempered by the reluctance of politicians to give up some of the power they currently exercise through the tax code-power vested in the ability to modify behavior, influence resource allocation, support pet projects, and grant concessions to special interest groups. As the editorial in the cover story aptly put it, "The tax code is the way it is because a majority of Congress wants it that way."



CONTENTS

1980.

Chapter 9 Summary

Section 1

The Economics of Taxation

(pages 223-229)

- Taxes affect the allocation of resources, behavior, and economic growth.
- The **incidence of a tax**, or final burden of a tax, is affected by elasticity—when demand for a product is elastic, less of the tax can be shifted to the



buyer; more can be shifted when demand is inelastic.

- Equity, simplicity, and efficiency are the criteria used to judge the effectiveness of a tax.
- Two principles, the **benefit principle of taxation** and the **ability-to-pay principle of taxation**, have been used to help select the group or groups that bear the burden of the tax. Both involve value judgments, and both types of taxes are widely used today.
- Taxes can be placed into three groups-proportional taxes, progressive taxes, and regressive taxesdepending on the way in which the tax burden changes as income changes.

Section 2

The Federal Tax System (pages 231–236)

- The main source of revenue for the federal government is the **individual income tax.**
- **Indexing** is used to change the **marginal tax rates** to offset the effects of inflation.
- The second largest revenue source is the **FICA** tax, collected to cover Social Security and **medicare**.
- The **corporate income tax** is the third largest source of federal revenue.
- Other sources of federal revenue include **excise taxes, gift taxes, customs duties,** and **user fees,** which is a different name for a benefit tax.

Section 3

State and Local Tax Systems

(pages 238-242)

- **Intergovernmental revenues** are the largest source of state revenues.
- Local governments receive intergovernmental revenues from state and federal governments. Local governments also raise revenue from **property taxes**, utility and liquor store sales, sales taxes, and other sources.
- The **payroll withholding statement** attached to a person's weekly, biweekly, or monthly paycheck provides a summary of wages, taxes, and other withholdings.

Section 4

Current Tax Issues (pages 244–250)

- A value added tax (VAT) is a tax on consumption rather than income. It is built into a product's every stage of production, is largely invisible, is regressive, and can raise huge sums.
- The Economic Recovery Tax Act of 1981 lowered marginal tax rates for all levels of income, and added accelerated depreciation and the investment tax credit for businesses.
- The 1986 tax reform law closed tax loopholes opened in 1981, and reduced the individual income tax code to two brackets, making it more proportional.
- The Budget Deficit Reduction Act of 1993 added two marginal tax brackets, restoring the progressive nature of the tax removed in 1986.
- The Taxpayer Relief Act of 1997 provided the wealthy with long-term investment tax breaks, and provided modest tax relief for individuals with child and educational expenses.
- Flat tax proposals can be mildly progressive, but in general reject the ability-to-pay principle of taxation.

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Chapter 9 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 9—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

On a separate sheet of paper, choose the letter of the term identified by each phrase below.

- a. ability-to-pay
- **b.** corporate income tax
- c. estate tax
- d. excise tax
- e. FICA
- f. indexing
- g. individual income tax principle
 - **1.** annual adjustment of tax brackets to keep pace with inflation
- **2.** average tax per dollar decreases as taxable income increases
- **3.** average tax per dollar increases as taxable income increases
- **4.** average tax per dollar unchanged as taxable income rises
- **5.** designed to discourage consumption of socially undesirable goods or services
- 6. tax on the manufacture or sale of certain items
- 7. largest source of revenue for the federal government
- 8. large source of revenue for state governments
- **9.** national sales tax on value added at each stage of production
- **10.** Social Security and medicare taxes

- 11. tax on the transfer of property when a person dies
- **12.** tax paid by those who can most afford to pay
- **13.** third largest source of income for the federal government

Reviewing the Facts

Section 1 (pages 223–229)

- **1. Describe** how taxes can be used to affect people's behavior.
- **2. Illustrate,** using supply and demand curves, how the burden of a tax can be shifted.
- **3. Explain** the three criteria used to evaluate taxes.
- 4. Name the two principles of taxation.

Section 2 (pages 231–236)

- **5. Describe** the main features of the individual income tax.
- 6. Identify the two components of FICA.
- 7. **Describe** the corporate income tax.
- **8. Distinguish** between excise taxes, estate and gift taxes, and customs duties.

Section 3 (pages 238–242)

- **9. Identify** the main sources of revenue for state governments.
- **10. List** the main sources of revenue for local governments.
- **11. Identify** the main types of taxes that are normally withheld from a worker's paycheck.

Section 4 (pages 244–250)

CONTENTS

- **12. Describe** the four major tax reform bills enacted since 1980.
- **13.** List the advantages and disadvantages of a VAT.

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h. progressive tax

- i. proportional tax
 - regressive tax
- k. sales tax
- l. sin tax
- e
- m. VAT

Chapter 9 Assessment and Activities

- **14. Identify** the income group that will receive the most benefit under a flat tax.
- **15. Explain** why future tax reforms are inevitable.

Thinking Critically

- **1. Synthesizing Information** If you were an elected official who wanted to increase tax revenues, which of the following taxes would you prefer to use: individual income, sales, property, corporate income, user fees, VAT, or flat? Provide reasons for your decision.
- 2. Making Comparisons Distinguish between the benefit and the ability-to-pay principles of taxation. Use a web like the one below to help you organize your answer.



Applying Economic Concepts

- **1. User Fees** In your own words, prepare the rationale for a user fee that you think should be enacted.
- **2. Sales Taxes** Some people object to state and local governments imposing sales and property taxes. What would you say to these people in defense of the two taxes?
- **3. Flat Taxes** Evaluate the concept of a flat income tax using the three criteria for effective taxes. Write a brief summary of your support or opposition to such a proposal.

Math Practice

After deductions and exemptions, Mindy's unmarried brother had taxable income of \$87,000 in 1999. According to the tax table in **Figure 9.5**, what will he owe in federal income taxes? What did he pay in Social Security taxes? What did he pay in medicare taxes?

Thinking Like an Economist

Describe how an economist might go about analyzing the consequences of shifting from the individual income tax to a consumption tax like the VAT.

Technology Skill

Using a Database For one week, keep a journal of all taxes you hear about on television or read about in the newspaper. Classify your journal entries into three categories: Federal, State, and Local taxes.

Create a database that has a record for each of the articles you used to find your information. Each record should have a separate field for the following: Title; Author; Year of publication; Tax category (Federal, State, Local); Criteria of taxation (equity, simplicity, efficiency).

Using your computer's software, sort the records by tax category (Federal, State, Local). Create a hard copy of this report. Share your database with the rest of the class.

Building Skills

Classifying Information Make a list of five taxes, charges, or user fees that you pay in your community. Draw a matrix like the one below and classify each of your five taxes in the appropriate place.

	Ability-to-Pay Principle	Benefit Principle
Regressive		
Proportional		
Progressive		

e Pra

CONTENTS

Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook, Level 2.*

Government Spending

Economics & You

CHAPTER 10

If you borrow money because you spend more than you earn, you run a deficit. In **Chapter 10**, you will learn how federal deficits and surpluses impact the U.S. economy. To learn more about government spending, view the Chapter 16 video lesson:

Government Spending

ECONOMICS

Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on **Chapter 10—Chapter Overview** to preview chapter information. Government expenditures are used to maintain transportation systems and protect the environment.

ICK HERE

CONTENTS

The Economics of Government Spending

SECTION 1

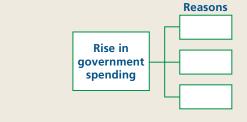
Study Guide

Main Idea

The role of the federal government has grown, making it a vital player in the economy.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to this one by listing reasons for the increase in government spending since the 1940s.



Key Terms

per capita, public sector, private sector, transfer payment, grant-in-aid, distribution of income

Objectives

After studying this section, you will be able to:

- 1. **Explain** why and how government expenditures have grown since the 1940s.
- 2. Describe two kinds of government expenditures.
- 3. **Describe** how government spending impacts the economy.

Applying Economic Concepts

Transfer Payments Read to find out how transfer payments serve as one of the tools used to promote the goal of economic security.

Cover Story

TVA Has Withstood a Series of Attacks

The Tennessee Valley Authority [TVA] is going through another changing federal relationship with Congress that is similar to the late 1950s. In both periods, for-



TVA workers in southeastern Tennessee

profit power companies had a great influence over Congress in cutting back

on federal funding to the TVA.... This fiscal year, which began October 1, TVA is getting no more federal funds to manage core non-

getting no more federal funds to manage power programs assigned to TVA.... TVA is getting battered by members of Congress from regions with power rates higher than TVA's. For-profit power companies have convinced these members that TVA has lower power rates because of past and present federal subsidies, while TVA denies there are any subsidies....

-Knoxville News-Sentinel, October 4, 1998

ONTENTS

overnment is big business in America. In fact, all levels of government in the United States spend more than all privately owned businesses combined. Government is a major player in our economy due to its enormous expenditures.

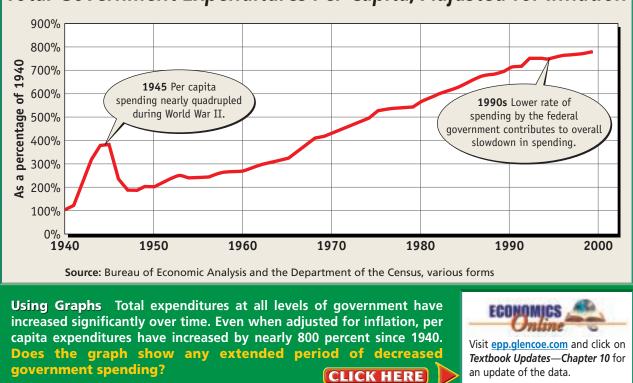
Government Spending in Perspective

In 1999, total expenditures by federal, state, and local governments collectively amounted to nearly \$2.7 trillion. On a **per capita**, or per person, basis, this amounts to almost \$10,000 for every man, woman, and child in the United States.

Spending in the **public sector**—the part of the economy made up of federal, state, and local governments—did not begin to rise significantly until the 1940s. Several reasons account for this increase. The first was the huge amount of spending required because of World War II. The second reason was the change in public opinion that gave government a larger role in everyday economic affairs. After the

STANDARD &POOR'S

Figure 10.1



Total Government Expenditures Per Capita, Adjusted for Inflation

Great Depression, government was called upon to regulate banks, public utilities, and many other activities.

A third reason was the success of large-scale public works projects like the TVA, which brought low-cost electricity to millions in the rural South during the mid-1930s. The events of the 1930s and early 1940s set the stage for the unprecedented growth of government spending shown in **Figure 10.1**.

Over time, many Americans have accepted increased government expenditures as the inevitable consequence of progress. Still, some people question how many goods and services government should provide—and, therefore, the level of revenue collection required to support these expenditures.

Others question what services the government should provide and what services the **private sector**—the part of the economy made up of private individuals and privately-owned businesses—should provide.

Two Kinds of Spending

In general, government makes two broad kinds of expenditures. The first is the purchase of goods and services. As **Figure 10.2** shows, all levels of government combined consume nearly one-third of the nation's output. The second is in the form of payments to disadvantaged Americans and other designated groups.

Goods and Services

The government buys many goods, such as tanks, planes, ships, and even space shuttles. It needs office buildings, land for parks, and capital goods for schools and laboratories. The government also needs to purchase supplies and hire people to work in its agencies and staff the military. Payments for these services include the wages and salaries paid to these workers.

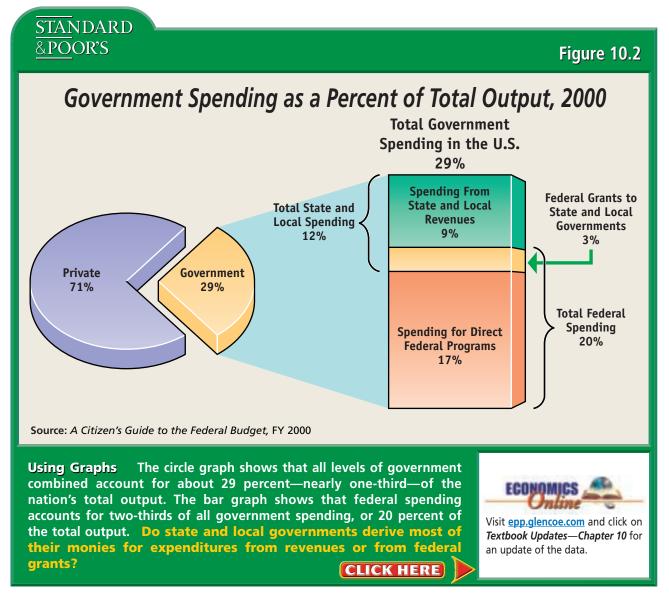


The government uses goods, services, and other resources to provide the public goods and services that most Americans enjoy. In general, the more the government provides, the more goods and services it consumes in the first place.

Transfer Payments

The second kind of government expenditure is a **transfer payment**—a payment for which the government receives neither goods nor services in return. Transfer payments to individuals include Social Security, welfare, unemployment compensation, and aid for people with disabilities. People normally receive these payments solely because they need assistance.

There are different kinds of transfer payments. A transfer payment one level of government makes to another is known as a **grant-in-aid**. Interstate highway construction programs are an example. The federal government grants money to cover the major part of the cost, while the states in which the highways will be built pay the rest. The construction of new public schools also can be financed through grants-in-aid.



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CHAPTER 10: GOVERNMENT SPENDING 257

Impact of Government Spending

The enormous size of the public sector gives it the potential to affect people's daily lives in many ways. Several of these effects are examined below.

Affecting Resource Allocation

Government spending decisions directly affect how resources are allocated. If the government spends its revenues on projects such as missile systems in rural areas rather than on social welfare programs in urban areas, economic activity is stimulated in rural areas as resources are shifted there. The allocation of resources can be affected indirectly as well. In agriculture, the decision to support the prices of milk, grains, or peanuts keeps the factors of production working in those industries.

Redistributing Income

Government spending also influences the **distribution of income**, or the way in which income is allocated among families, individuals, or other designated groups in the economy. The incomes of needy families, for example, can be directly affected by increasing or decreasing transfer payments.

Incomes are affected indirectly when the government decides where to make expenditures. The decision to buy fighter planes from one factory rather than from another has an impact on the communities near both factories. Many businesses not linked to either company will feel the effects when workers are laid off or get new jobs and alter their spending habits. These situations are not merely hypothetical. The military base closings of the 1990s had a devastating impact on incomes in local communities that had come to depend on the military installations.

On the positive side, government can provide temporary income support for selective groups. In 1999, for example, the Department of Agriculture purchased millions of pounds of pork in an attempt to support low pork prices for farmers.

Competing With the Private Sector

When the government produces goods and services, it often competes with the private sector. In the area of higher education, many public colleges and universities compete with more expensive private ones. In many cases the cost difference is due to the subsidies received by the public institutions.

In the area of health care, the government runs a system of hospitals for military veterans. Taxpayer dollars fund these facilities, which compete with hospitals in the private sector that offer similar services.

Section 1 Assessment

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 255, describe why government spending during the Depression increased.
- 2. Key Terms Define per capita, public sector, private sector, transfer payment, grant-in-aid, distribution of income.
- **3. Describe** the per capita growth in government spending since 1940.
- 4. List two kinds of government spending.
- Identify three ways that government spending may impact the economy.

Applying Economic Concepts

6. Transfer Payments Do you think that transfer payments, such as unemployment compensation, are a successful or unsuccessful way to accomplish the goal of economic security? Defend your answer.

Critical Thinking

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- 7. Making Generalizations Is government spending too much? Interview five people to learn their views on this question. Summarize their views in a short paper.
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.



Electronic mail, or E-mail, refers to communicating at a distance through the use of a computer. A computer is ready to "talk" to other computers after two things are added to it: (a) a modem—or device that allows communication through a telephone line, and (b) communications software, which lets your computer prepare and send information to the modem.

	Help our class !	DB
Arial	♥ 12 ♥ B Z U	
To	UmbisaGusa@AOL.com	
Dear Umbisa, Hellol We know cool. I would really lif taxation. We would lif income tax? Do you because my report is Your friend,	Help our class? v you are very happy being back home in Kenya. Yo ke to see Mt. Kilimanjaro some day. Our class is rese ke to know about the tax system in Kenya. Do your p pay sales taxes on the items you purchase? Reply a due tomorrow! Thanks!	arching government arents pay an
Dylan		*
2		. 4



After you type in your message, you may send it, forward it, and even save it to a folder.

Learning the Skill

To send an E-mail message, complete the following steps:

- Select the "Message" function from your communications software.
- Type in your message, and proofread it for errors.
- Type in the E-mail address of the recipient and select the "Send" button.

The E-mail system places the message in the receiver's electronic mailbox. He or she may read the message at any time, and send you a return message. When you receive E-mail, the sender's address is on the message–add it to your electronic address book at that time.

Practicing the Skill

Select a current issue in economics to research. Possible topics include, What is the effect of the debt on the ecomony? and, What steps can be taken to reduce the debt? Then browse the Internet to obtain the E-mail address of a federal official concerned with the issue. E-mail the official, sharing opinions about the issue, asking questions about the issue, and requesting information.

Application Activity

CONTENTS

E-mail a classmate. Forward the information you received from the government official concerning the issue above. Working together, write a summary of the E-mail correspondence with the official.

Federal Government Expenditures

SECTION 2

Study Guide

Main Idea

The federal government's budget supplies money for many services and programs.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below that describes the different types of government spending.



Key Terms

federal budget, mandatory spending, discretionary spending, fiscal year, federal budget surplus, federal budget deficit, appropriations bill, medicaid

Objectives

After studying this section, you will be able to: **1. Explain** how the federal budget is established.

2. Describe the parts of the federal budget.

Applying Economic Concepts

Mandatory Spending Remember those FICA taxes deducted from your paycheck? The government does not save your FICA taxes until you retire. As soon as this money is collected from you, the government spends it as Social Security payments to others, which is why they are called transfer payments.

Cover Story



Speaker Hastert addresses Congress

Disunity on Spending Bill

Washington—Pleading for unity, Speaker [of the U.S. House of Representatives] J. Dennis Hastert told fellow Republicans Tuesday that they must stick together and pass the party's major bills or risk losing their majority in the House.

But despite a public display of mutual respect among Republicans after Hastert's pep talk, they are still deeply divided over how to pass . . . spending bills to finance the Government.

Hastert, an Illinois Republican, reminded the Republicans of their precarious 223–211 majority and warned that they could lose the House next year if they did not govern the legislature, govern themselves, and pass the spending bills—the only thing Congress is legally required to do.

-The New York Times, June 9, 1999

CONTENTS

aking action on spending bills is but one step in the preparation of the **federal budget**—an annual plan outlining proposed revenues and expenditures for the coming year.

Approximately two-thirds of the federal budget consists of **mandatory spending**-spending authorized by law that continues without the need for annual approvals of Congress. Mandatory spending includes interest payments on borrowed money, Social Security, and Medicare. The remaining onethird of the budget deals with **discretionary spending**-programs that must receive annual authorization. Discretionary spending decisions include how much to spend on programs such as the military, the Coast Guard, and welfare.

Establishing the Federal Budget

The federal budget is prepared for a **fiscal year**–a 12-month financial planning period that may or may not coincide with the calendar year. The government's fiscal year starts on October 1 of every calendar year and expires on September 30 of the following year.

Executive Formulation

The first step in the process of developing the budget is executive formulation. This means that the president establishes the general budget guidelines for a multiyear period, with the primary focus on the upcoming fiscal year.

As part of the preparation, the president confers with government agencies, other executive office units, and the Office of Management and Budget (OMB), the division of the executive branch primarily responsible for assembling the budget under presidential guidelines.

By law, the federal budget must be sent to Congress no later than early February. However, the budget pictured in **Figure 10.3** was presented to Congress in January 1999. The budget lists \$1,883.0 billion of revenues and \$1,765.7 billion of mandatory and discretionary spending. The budget also shows a **federal budget surplus**—an excess of revenues over expenditures—of \$117.3 billion. If the budget had shown expenditures to be larger than revenues, then it would have been a **federal budget deficit** equal to the shortfall. Whether these numbers turn out to be accurate depends on a number of factors, including the health of the economy and, more importantly, the will of Congress.

Action by the House

The president's budget is only a request to Congress. Congress has the power to approve, modify, or disapprove the president's proposed budget—the most difficult and time-consuming part of the budget process. However, the House does not debate all budget expenditures, only the discretionary spending, which amounted to approximately \$538 billion in that year.

First, the House sets initial budget targets for discretionary spending. For example, the House might decide that the projected expenditures for agriculture are too high and spending on international affairs is too low, and then set different targets.

Once the budget targets are set, the House assigns appropriations bills to various House subcommittees–effectively breaking the entire budget down into 13 smaller ones. An **appropriations bill** is an act of Congress that allows federal agencies to

CYBERNOMICS SPOTLIGHT

Using Technology

In an attempt to improve performance and reduce bureaucratic costs, the Social Security Administration is modernizing its computer system. Electronic "kiosks," with touchsensitive TV monitors, are being constructed in malls and public buildings. The kiosks are designed to be a user-friendly place where people can apply for Social Security cards or administration benefits. One kiosk in Arizona is programmed to speak the Navajo language. These kiosks will be connected to Social Security computers so that people can access their own accounts.

spend money for specific purposes. House subcommittees hold hearings on each bill and debate the measure. If the bill is approved, it is sent to the full House Appropriations Committee. If it passes there, the bill is sent to the entire House for approval.

The deadline for completing this part of the process is September 15. However, individual appropriations bills are often delayed, or changed in a way that makes them incompatible with the overall budget targets. This is why Speaker Hastert expressed concern (see the cover story on page 260). By early June of 1999, the House had passed only one of the 13 appropriation bills.

Action by the Senate

CONTENTS

The Senate receives the budget after the House approves it. The Senate may approve the bill as sent by the House, or it may draft its own version. If differences exist between the House and the Senate versions, a joint House-Senate conference committee tries to work out a compromise bill.

During this process, the House and the Senate often seek advice from several government bureaus and offices, including the Congressional Budget Office (CBO). The CBO is a congressional agency that evaluates the impact of legislation and projects future revenues and expenditures that will result from the legislation.

Final Approval

If everything goes as planned, the House and the Senate approve the compromise bill and then send it to the president for signature. Because Congress literally took apart, rewrote, and put back together the president's budget, the final version may or may not resemble the original proposal.

If the budget was altered too much, the president can veto the bill and force Congress to come up with a budget closer to the president's original version. Or, if Congress fails to pass a budget in time for approval by the Senate, the government can shut down briefly—as it did in late 1995 and early 1996. However, it is more likely that Congress and the president would agree to continue to operate at the previous year's spending levels.

Once signed by the president, the budget becomes the official document for the next fiscal year that starts on October 1 and ends on September 30. The budget shown in **Figure 10.3** is called the fiscal year 2000 budget because nine of the 12 calendar months fall in that year.

Major Spending Categories

The thousands of individual expenditures in the federal budget can be grouped into the broad categories shown in **Figures 10.3** and **10.4**.

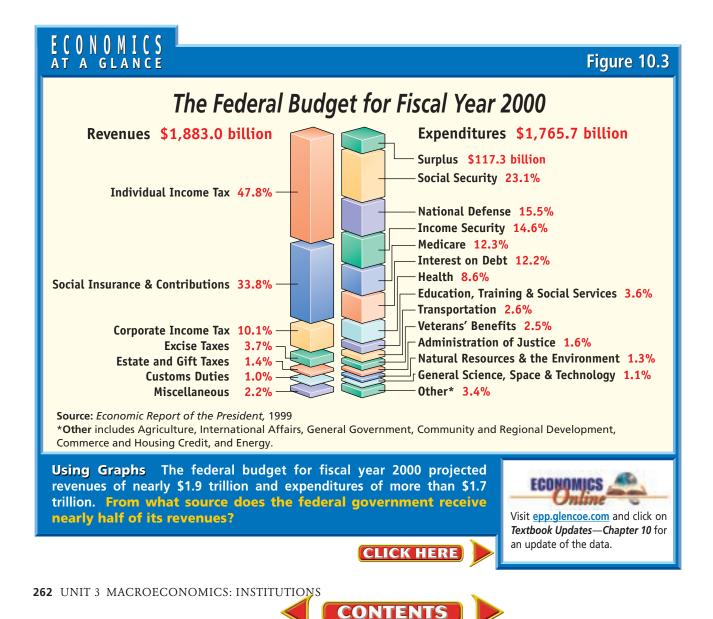
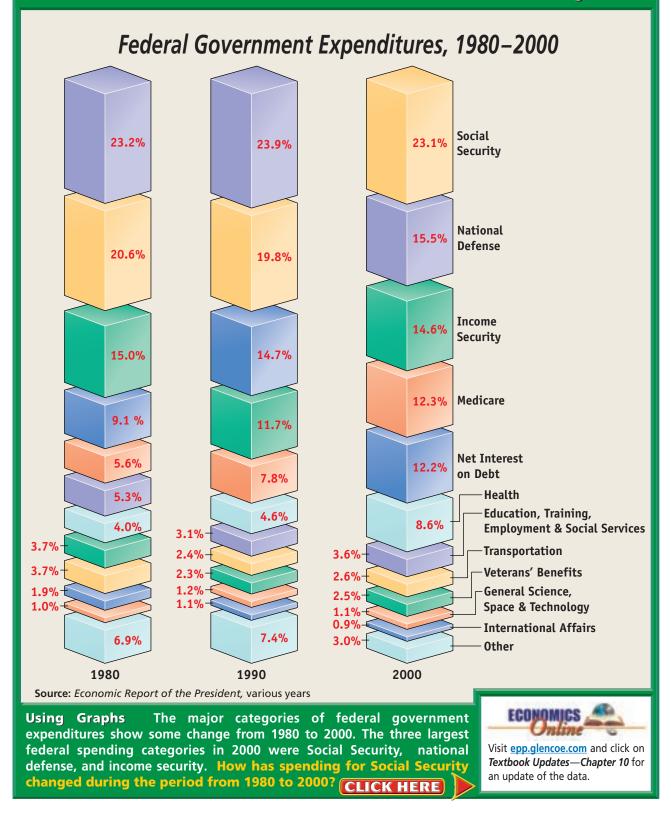


Figure 10.4



STANDARD &POOR'S

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Payments to aged and disabled Americans through the Social Security program make up the largest category of federal spending. Retired persons receive benefits from the Old-Age and Survivors Insurance (OASI) program. Those unable to work receive payments from disability insurance (DI) programs.

Because Social Security is one of the mandatory spending categories, Congress simply takes the amount to be spent as a given that is dependent on the number of people eligible for Social Security payments.

For much of the late 1900s, national defense comprised the largest category of spending, although it is now second to Social Security. National defense includes military spending by the Department of Defense and defense-related atomic energy activities, such as the development of nuclear weapons and the disposal of nuclear wastes. This is the largest single discretionary category whose spending is approved annually.

Income security includes expenditures for retirement benefits to railroad workers and disabled coal miners, civil service retirement and disability programs, and retirement benefits for the military. Subsidized housing, child nutrition, and food programs for low-income families also fall under this category. Most of these expenditures are mandatory, and are therefore not authorized annually.

Medicare, a health-care program available to all senior citizens regardless of income, began in 1966. The program provides an insurance plan that covers major hospital costs. It also offers optional insurance that provides additional coverage for doctor and laboratory fees, outpatient services, and some equipment costs. This is another of the mandatory programs that does not require annual funding approval.

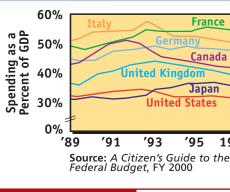


GOVERNMENT SPENDING

тне

Our government certainly spends a lot of money, but other nations spend even more. A comparison of the total government spending as a percentage of total output, or Gross Domestic Product, is shown in the graph.

Using this method, we can get a general impression of the size of the economic role of different governments. France and Italy are among the biggest spenders—with total government outlays exceeding 50 percent of their GDP. Germany and Canada are not far behind. During the time period shown on the graph, Japan and the United States generally spent between 30 and 40 percent.



GLOBAL ECONOMY

Critical Thinking

CONTENTS

1. Analyzing Information Which nations' expenditures stayed at a level between 30 and 40 percent of their GDP?

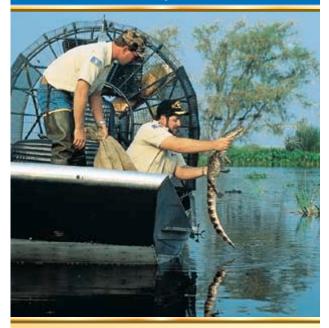
1997

2. Drawing Conclusions Would you agree with the statement that government spending by the United States "follows a consistent trend?" Why or why not? When the federal government spends more than it collects in taxes and other revenues, it borrows money to make up the difference. Interest on the federal debt made up the third largest category of federal spending for fiscal year 2000. The amount of interest paid varies with changes in interest rates and is a mandatory expenditure.

Health-care services for low-income people, disease prevention, and consumer safety account for this part of the federal budget. One popular program in this category is **medicaid**, a joint federalstate medical insurance program for low-income persons. Another is the Occupational Safety and Health Administration (OSHA)–a federal agency that monitors occupational safety and health in the workplace. Still others include AIDS and breast cancer research, substance abuse treatment, and mental health service programs. Some programs such as medicaid are part of mandatory expenditures, although many others are considered to be discretionary.

Other broad categories of the federal budget include education, training, employment, and social services; transportation; veterans' benefits; administration of justice; and natural resources and the environment.

Federal Expenditures



Natural Resources Biologists and conservation specialists release a farm-raised alligator into wetlands. What percentage of federal expenditures went to natural resources and the environment?

Section 2 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Using your notes from the graphic organizer activity on page 260, write a definition of mandatory spending.
- **2. Key Terms** Define federal budget, mandatory spending, discretionary spending, fiscal year, federal budget surplus, federal budget deficit, appropriations bill, medicaid.
- **3. Describe** the three stages required to establish the federal budget.
- **4. List** the five largest components of federal government spending.

Applying Economic Concepts

5. Mandatory Spending Contact your local Social Security office to find out about a person's

eligibility to receive Social Security payments. Ask about the age, other eligibility requirements, and the amount of the Social Security payments.

Critical Thinking

- 6. Understanding Cause and Effect People are living longer, and families have fewer members. How will the combination of these two factors affect transfer payments, such as Social Security, in the future?
- **7. Finding the Main Idea** When the federal government spends more than it collects, how does it make up the difference?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CHAPTER 10: GOVERNMENT SPENDING 265

Profiles Economics Economic Journal

A New Economics: John Maynard Keynes

John Maynard Keynes is widely regarded as the most influential economist of the twentieth century. He wrote numerous books and articles that focused on shortrun problems, instead of the longrun equilibrium solutions prevalent at the time. Keynes defended his short-run approach on the grounds that "in the long run, we are all dead."

His most famous and influential work is *The General Theory of Employment, Interest, and Money* (1936). The book, written during the depths of the Great Depression, offered new insights in the midst of a crisis. The policy recommendations derived from his theories soon took the world by storm.

ECONOMIST, TEACHER

Keynes attended Eton, and then Cambridge University. After graduation, Keynes returned to Cambridge as a lecturer. In addition he served, at various times, as editor of the famous *Economic Journal*, on the staff of the Treasury, and as a director of the Bank of England. He was instrumental in the planning of the World Bank. For his service to Great Britain, Keynes was knighted in 1942.

INFLUENCE

Keynes's General Theory divided the economy into four sectorsconsumer, investment, government, and foreign. Keynes argued that the health of the economy is based on the total spending of all the sectors. He hypothesized that a fall in spending by the business sector could have a magnified impact on other sectors of the economy. Increased government spending could offset this process. These ideas stood in stark opposition to classical economics, which emphasize laissez-faire policies. They have been dubbed the New Economics, or, more frequently, Keynesian economics.

The theories were revolutionary and they provided much needed

CONTENTS

insight into the workings of a depression-era economy. Soon, the label *Keynesian economics* stood for any spending and taxing policies designed to stimulate the private sector.

The influence of Keynes was such that it led, in part, to the development of our national income and products accounts (NIPA) that are used to measure GDP and NNP.

Examining the Profile

- Synthesizing Information Write a brief description of Keynesian economics and compare it with one of classical economics to explain why the former was labeled "the New Economics."
- For Further Research Find out in what ways countries today follow Keynesian economic policies.

State and Local Government Expenditures

SECTION 3

Study Guide

Main Idea

Like the federal government, state and local governments have budgets that provide money for many programs and services.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing and describing the components of the categories that account for more than 10 percent of local spending.



Key Terms

balanced budget amendment, intergovernmental expenditures

Objectives

After studying this section, you will be able to:

- 1. Explain how state and local governments approve spending.
- Identify the major categories of state government expenditures.
- 3. Identify the major categories of local government expenditures.

Applying Economic Concepts

Human Capital is one of the most important investments we can make. Read to find out how state and local governments support this investment.

Cover Story

State Government Nears Breakdown

The budget war went nuclear this week in Concord (N.H.) particularly between [Governor] Jeanne Shaheen and House Speaker Donna Sytek.

With the July 1 dead-



New Hampshire politics not so picture-perfect

line for a new fiscal year **and a prime preserve** nearing and neither the House nor the Senate taking action on the budget, it became more apparent state government is heading for a shutdown or a continuing resolution to keep going at the current year's spending level. . . . [P]artisan politics appears to be driving the budget showdown. . . . It all is one very complicated mess that is going to need some cooler heads if it is to be resolved any time soon. . . .

-Foster's Daily Democrat, June 13, 1999

S tate and local levels of government, like the federal government, also have expenditures. Like the federal government, these governments must approve spending before revenue dollars can be released. As the cover story shows, the budget process at the state and local levels can be just as complicated as it is at the federal level.

Approving Spending

ONTENTS

Approving spending at the state level can take many forms. In most states, however, the process is loosely modeled after that of the federal government.

Some states have enacted a **balanced budget amendment**–a constitutional amendment that requires that annual spending not exceed revenues. Under these conditions, states are forced to cut spending when state revenues drop. A reduction in revenues may occur if sales taxes or state income taxes fall because of a decline in the general level of economic activity.

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At the local level, power to approve spending often rests with the mayor, the city council, the county judge, or some other elected representative or body. Generally, the amount of revenues collected from property taxes and other local sources limits the spending of local agencies. If state and local governments are unable to raise the revenue they need, they must deal with having inadequate resources to hire teachers, police officers, or other state and local workers.

State Government Expenditures

The major types of state government expenditures are shown in Figure 10.5. Seven of the most important categories, accounting for nearly 80 percent of all state spending, are examined next.

Careers



Budget Analyst

Are you good at analyzing and comparing data? Budget analysts develop financial plans and provide technical advice about budgeting.

The Work

Budget analysts research,

analyze, develop, and execute annual budgets. Working with managers and department heads, they seek new ways to improve a company's efficiency and increase profits. Reviewing financial requests, examining past and current budgets, and researching developments that can have an effect on spending are additional responsibilities.

Qualifications

Budget analysts need strong analytical skills and must be knowledgeable in mathematics, statistics, and computer science. Because of their frequent interaction with others and the obligation to present budget proposals, budget analysts must possess strong oral and written communication skills. The largest category of state spending is intergovernmental expenditures—funds that one level of government transfers to another level for spending. These funds come from state revenue sources such as sales taxes, and they are distributed to towns and other local communities to cover a variety of educational and municipal expenditures.

The second largest category of state expenditures is public welfare. These payments take the form of cash assistance, payments for medical care, spending to maintain welfare institutions, and other miscellaneous welfare expenditures.

Many states have their own retirement funds and insurance funds for state employees. Money in these funds is invested until such time as people retire, become unemployed, or are injured on the job. Contributions to these funds make this category the third largest type of spending overall.

Generally a large category, higher education is a traditional responsibility of state governments with their networks of state colleges and universities. Local governments spend less in this area, usually to support community colleges and universities.

Highway construction and road improvement expenditures represent a significant portion of state expenditures. The federal government builds and maintains much of the interstate highway system, but states maintain state roads and other highways that generally link smaller communities with larger ones.

Local Government Expenditures

Local governments include counties, municipalities, townships, school districts, and other special districts. The largest categories of spending by local governments include elementary and secondary education, utilities, hospitals, police protection, interest on debt, public welfare, and highways.

Local governments have primary responsibility for elementary and secondary education. Expenditures in this category include teachers' and administrators' salaries, textbooks, and construction and maintenance of school buildings. This category accounts for more than one-third of local government spending.

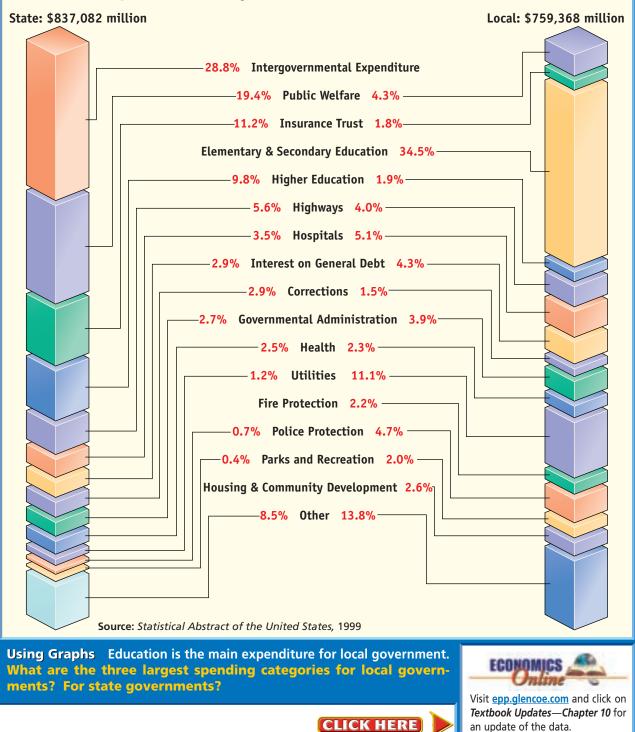
Many public utilities, such as water and sanitation, serve local needs. For most local governments,

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ECONOMICS AT A GLANCE

Figure 10.5

Expenditures by State and Local Governments



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an update of the data.

spending on utilities amounts to the second most important expenditure.

Many hospitals receive some of their funding from local governments. Some hospitals are entirely city- or municipalowned, which makes them a modest budget item for local governments.

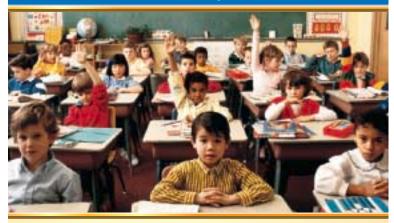
Most localities have a full-time, paid police force to protect their community. As a result, police protection is a cost for local governments. Because there are far fewer state than local police forces, state spending for police protection is much lower.

State and local governments, like the federal government, often borrow money to cover capital expenditures for highways, universities, and even government buildings. As with the fed-

eral government, interest expenses vary as interest rates go up and down.

Local governments, like state governments, face public welfare expenditures. Local governments, however, spend much less than state governments on this category.

Local governments also spend money on highways, roads, and street repairs. This expenditure **Government Expenditures**



Education Local government's largest spending category is primary and secondary education. *Which level of government has the major responsibility for higher education?*

category includes the repair of potholes, street signs, snow removal, and other street-related items.

The remaining local government expenditures, approximately one-third of the total, are spread over a wide range of categories. Among the most important are housing and community development, fire protection, and parks and recreation.

Section 3 Assessment

CONTENTS

Checking for Understanding

- Main Idea What are some services that state and local governments provide for in their budgets?
- **2. Key Terms** Define balanced budget amendment, intergovernmental expenditures.
- **3. Describe** how state governments handle the spending approval process.
- **4. List** seven major categories of state spending.
- **5. Identify** the seven major categories of local government spending.

Applying Economic Concepts

6. Human Capital How does the market reward those who have invested in human capital—

the acquired skills of an individual in the areas of education, training, and work habits? Cite specific examples from your community to support your answer.

Critical Thinking

- 7. Finding the Main Idea What is the purpose of a balanced budget amendment?
- 8. Making Generalizations If you were to argue for reduced spending at the state and local levels, which categories shown in Figure 10.5 would you choose to cut back? Explain the reasons for your choices.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

MARCH 15, 1999

Creative students are finding new ways to gain the financing needed to attend the college of their choice. As you read the article, think about why it is important for students to explore many options as they plan for how to finance their college educations.

Dialing for Dollars

Jonathan Piper, 18, applied to nine top-notch colleges and got into them all. The Cleveland native scored in the 95th percentile on his SATs and managed a 3.9 average at prep school while playing baseball, singing lead in musicals, and participating in an engineering society. He's also an African American. But getting accepted was just the first step. Next came the money.

Last spring, Piper made call after call to college financial-aid officers. His soft-spoken pitch: "I have no idea what I want to do, and I want to see the best that each of you can offer me." University of Pennsylvania and Princeton University didn't move much, but Wake Forest University in Winston-Salem, N.C., raised its annual aid offer from \$8,000 to \$26,000. A freshman there now, Piper is studying poetry with Maya Angelou and has no regrets. "It would have cost me \$15,000 a year to go to Princeton, vs. nothing for Wake Forest," he says.

Colleges call it "dialing for dollars"—the time in March and April when parents and students phone them with better offers from other schools in hopes of coaxing more aid out of them. Rare a decade ago,

Newsclip

negotiating is now so much a part of the picture that some colleges openly encourage it, while others are quietly putting away aid dollars for maneuvering at season's end.

The result is that a classroom now resembles an airplane. Three people sitting side-by-side could be paying different prices, and economic need has less to do with it than savvy. Nationally, about half of all students receive assistance....



It pays to be astute. Tuition and fees have risen 94% since 1989, nearly triple the 32.5% increase in inflation, according to the Bureau of Labor Statistics. The sticker price-tuition, fees, and room and board-for a year of undergraduate education ranges from \$33,000 at Ivy League schools down to \$10,500 at state universities....

Cash-strapped students are ... saving thousands by enrolling at a public college and later transferring to a private college or starting at a junior college (average tuition of \$1,500 a year) and moving on to a state university. ...

Students are finding other creative ways to save. High school pupils who take advancedplacement courses can knock off several semesters of college. Some private colleges offer three-year bachelor's programs or five-year bachelor'smaster's degrees....

-Reprinted from March 15, 1999 issue of *Business Week*, by special permission, copyright © 1999 by The McGraw-Hill Companies, Inc.

Examining the Newsclip

- **1. Finding the Main Idea** What change does the writer discuss regarding financing college education?
- **2. Synthesizing Information** What methods are students using to decrease the cost of college?



Deficits, Surpluses, and The National Debt

SECTION 4

Study Guide

Main Idea

Deficit spending has helped create a national debt.

Reading Strategy

Graphic Organizer As you read the section, describe the growth of the debt before and after 1970.



Key Terms

deficit spending, federal debt, balanced budget, trust fund, crowding-out effect, pay-as-you-go provision, line-item veto, spending cap, entitlement

Objectives

After studying this section, you will be able to:

- 1. **Explain** how the federal deficit is related to the federal debt.
- 2. **Relate** the impact of the federal debt on the economy.
- 3. **Describe** past attempts to eliminate the federal deficit.
- 4. Describe entitlements.

Applying Economic Concepts

Deficit Spending When the government must borrow money to spend, deficit spending occurs. Read to learn why American taxpayers must pay the interest on that borrowed money.

Cover Story

A Decade of Black Ink?

The 1998 fiscal year ended with the first federal budget surplus in three decades—\$70 billion in black ink. And government forecasts project even larger surpluses in the coming decade.

Republicans in Congress are eyeing the government's swelling coffers to deliver long-sought tax cuts, while President Clinton has proposed devoting about



Postal worker

two-thirds of the projected surplus over the next 15 years to preserving the Social Security trust fund.

Security trust fund. These forecasts somewhat exaggerate the size of the budget surplus because they include money generated by Social Security taxes and the Postal Service. . . .

-Mark Stencel, The Washington Post, January 30, 1999

he cover story reminds us that 1998 was the first time in 29 years that the federal budget had a surplus. While the surplus was due largely to the Social Security trust fund, it presented nevertheless a whole new range of possibilities and temptations for politicians.

From the Deficit to the Debt

CONTENTS

Historically, the federal budget has been characterized by a remarkable amount of **deficit spending**—or spending in excess of revenues collected. Sometimes the government plans deficit spending. At other times, the government is forced to spend more than it collects because unexpected developments cause a drop in revenues or a rise in expenditures.

Figure 10.3 shows that the government projected a \$117.3 billion surplus for fiscal year 2000. Budget projections are based partially on assumptions about the direction of the economy. If the economy has strong economic growth, the surplus

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STANDARD & POOR'S Figure 10.6 The Federal Deficit **Billions of Constant (Chained) 1992 Dollars** Strong economic growth in 1998 \$100 and the 1993 Budget Act resulted in first budget surplus in 29 years. 50 0 -50 -100 -150 The last surplus for nearly 30 years was in President Johnson's -200 1969 fiscal year budget -250 -300 In relative terms, the largest 1994 was the first year affected by the -350 deficit on record was \$54.6 billion in 1943 1993 Omnibus Budget Act, which was designed -400 This amounts to \$419 billion if to trim \$500 billion from the deficit over measured in 1992 dollars -450 a 5-year period. -500 1944 1976 960 964 1980 1996 1940 1948 1984 1988 2000 Years Source: Economic Report of the President and Budget of the United States Government, various years Deficits add to the federal debt, and interest on the **Using Graphs** ECONOMIC federal debt is one of the largest categories of federal expenditures. What happened to the federal deficit during World War II? Visit epp.glencoe.com and click on





could grow larger. A downturn in the economy means less federal government revenues and a rise in expenditures such as unemployment compensation. Figure 10.6 shows the history of federal budget deficits and surpluses since 1940, with numbers adjusted so that inflation does not distort year-toyear deficit comparisons.

Deficits Add to the Debt

When the federal government runs a deficit, it must finance the shortage of revenue by borrowing from others. It does this by having the Department of the Treasury sell bonds and other forms of government debt to the public. If we add up all outstanding federal bonds and other debt obligations, we have a measure of the federal debt-the total

amount borrowed from investors to finance the government's deficit spending.

The debt grows whenever the government spends more than it collects in revenues. If the federal government attains a **balanced budget**-an annual budget in which expenditures equal revenues-the federal debt will not change. If the federal budget generates a surplus, the federal debt will become smaller.

How Big Is the Debt?

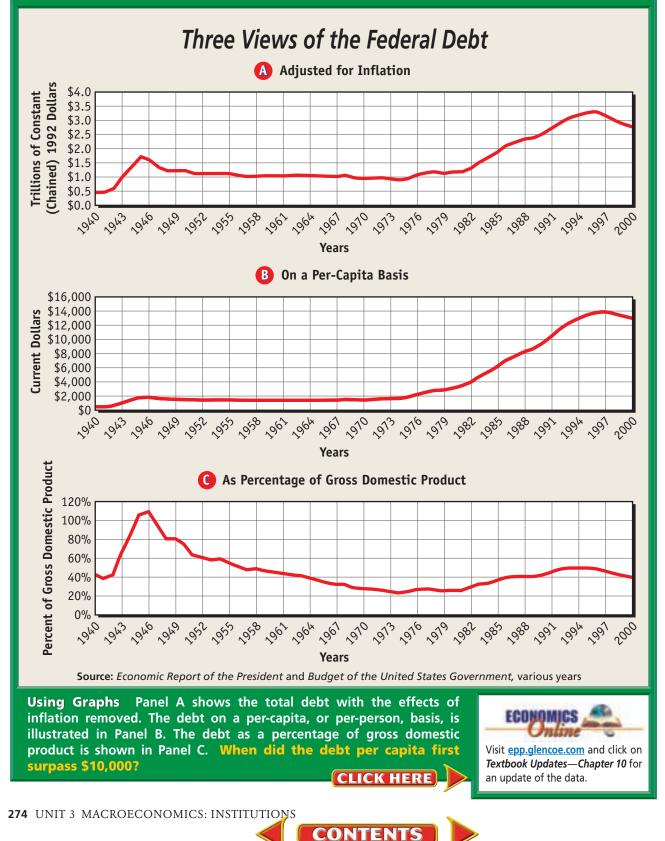
CONTENTS

The national debt has grown almost continuously since 1900, when the debt was \$1.3 billion. By 1929 it had reached \$16.9 billion, and by 1940 it was \$50.7 billion. By late 1999 the total federal debt was about \$5,718 billion-or \$5.7 trillion.

CHAPTER 10: GOVERNMENT SPENDING 273

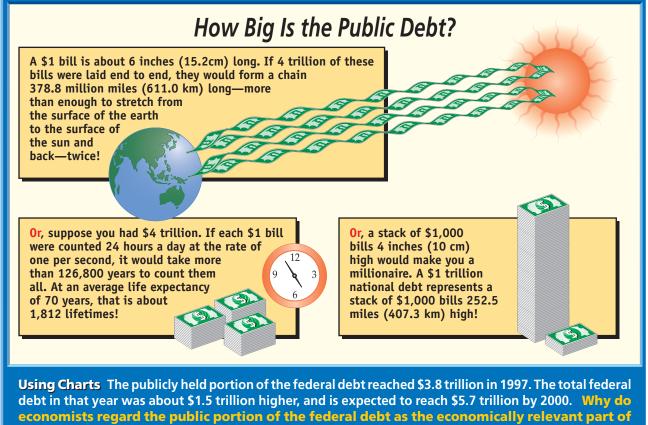
STANDARD &POOR'S

Figure 10.7



ECONOMICS At a glance

Figure 10.8



the debt?

Some of this debt is money that the government owes to itself. In 1999 approximately \$1.9 trillion of this debt was held in government **trust funds**—special accounts used to fund specific types of expenditures such as Social Security and medicare. When the government collects the FICA or payroll tax, it puts the revenues in these trust accounts. The money is then invested in government securities until it is paid out.

Because trust fund balances represent money the government owes to itself, most economists tend to disregard this portion of the debt. Instead, they view the public portion of the debt–which amounted to \$3.7 trillion in 1999–as the economically relevant part of the debt. **Figure 10.7** presents three views of the total federal debt held by the public. **Panel A**, which is adjusted for inflation, shows that the debt did not increase dramatically until the 1980s. **Panel B**, computed on a per capita basis, also shows a dramatic increase in the 1980s. According to this view, the debt on a per capita basis was approximately \$13,500 by the end of 1999.

Panel C shows the debt as a percentage of Gross Domestic Product (GDP)–the dollar value of all final goods, services, and structures (houses and commercial buildings) produced within a country during any one year. The debt peaked in 1946. By 1999 it was about 41 percent.

Public vs. Private Debt

ONTENTS

How does the federal debt differ from private debt? A key difference is that we owe most of the federal debt to ourselves—whereas private debt is owed to others. The federal debt is also different from private debt in other ways.

One difference is repayment. When private citizens borrow money, they usually make plans to repay the debt by a specific date. When the federal



Effects In the 1990s the federal debt surpassed \$5 trillion. *How does the federal debt impact the economy*?

CONTENTS

government borrows, it gives little thought to eventual repayment because it simply issues new bonds and uses the proceeds to pay off the old bonds.

Another difference has to do with purchasing power. When private individuals repay a debt, they give up purchasing power. They no longer have that money and so it cannot be used to buy more goods and services. When the federal government repays a debt, there is no loss of purchasing power because the taxes and revenue collected from some groups are simply transferred to others. The exception is 15 to 20 percent of the public debt owned by foreigners. When payments are made to investors outside the United States, some purchasing power is temporarily diverted from the American economy.

Impact of the National Debt

Even though we owe most of the federal debt to ourselves, it still affects the economy in ways that can harm the private sector.

The federal debt can have a significant impact on the distribution of income within the economy. If the government borrows money from the wealthy, and if the burden of taxes falls on the middle class and the poor, taxes would be transferred to the rich in the form of interest payments on the debt.

If the government borrows money from the middle class, and if the burden of taxes falls on the rich, those taxes would be used to make interest payments to the middle class. The federal tax structure, as much as the size of the debt itself, determines the distribution effects. Given the current progressive nature of the personal income tax, less is taken from the lower and middle income classes than would be the case under a less progressive, or flat tax.

Another consequence of the federal debt is that it causes a transfer of purchasing power from the private sector to the public sector. In general, the larger the public debt, the larger the interest payments and, therefore, the more taxes needed to pay them. When people pay more taxes to the government, they have less money to spend on their own needs.

A third impact is that the taxes needed to pay the interest can reduce the incentives to work, save, and invest. Individuals and businesses might feel

STANDARD&POOR'SINFOBYTE

Budget Deficits A deficit can be a negative catalyst in an economy. Some economists, however, will advocate deficit spending under certain conditions, such as a government spending its way out of a recession. less inclined to work harder and earn extra income if higher taxes are placed on them.

Some people feel that the government spends taxpayers' money in a careless manner. A community, for example, may secure a federal grant to purchase expensive equipment that taxpayers in the community would never have approved. If people feel that their taxes are being squandered, they may have a reduced incentive to work.

When the government sells bonds to borrow money, it competes with the private sector for scarce resources. An example of this competition is the **crowding-out effect**—the higher-than-normal interest rates that heavy government borrowing causes.

This effect is illustrated in **Figure 10.9**. If the government runs a deficit and tries to raise funds by selling bonds, it will cause the interest rate paid by private borrowers to go up.

Taming the Deficit

Concern over the size of the federal deficit and the debt has led to a number of attempts to control it. Several of the more important attempts are described below.

Gramm-Rudman-Hollings

One of the first significant attempts to control the federal deficit took place when Congress tried to mandate a balanced budget by 1991. The legislation was formally called the Balanced Budget and Emergency Deficit Control Act of 1985, or Gramm-Rudman-Hollings (GRH) after its sponsors.

The key to GRH was to set federal deficit targets for Congress and the president to meet over a sixyear period-targets that resulted in a zero deficit by 1991. Despite high hopes, GRH failed for two reasons. First, Congress discovered that it could get around the law by passing spending bills that took effect two or three years later. Second, the economy started to decline in July 1990-triggering a safety valve in the law that suspended automatic cuts when the economy was weak.

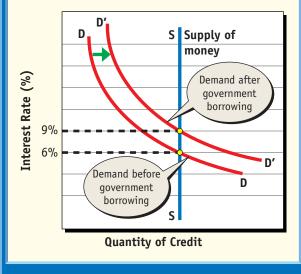
Budget Enforcement Act of 1990

In an effort to control future budgetary action, Congress passed the Budget Enforcement Act

ECONOMICS AT A GLANCE

The Crowding-Out Effect Caused by Federal Spending

Figure 10.9



Using Graphs Crowding out affects the allocation of resources in the economy. What happens to the interest rate when deficit spending increases?

(BEA) in 1990. The BEA's main feature is a **"pay-as-you-go" provision**—a requirement that new spending proposals or tax cuts must be offset by reductions elsewhere. If no agreement on the reductions is reached, then automatic, across-the-board spending cuts are to be instituted.

The BEA also has limitations. For one, it applies only to discretionary spending. For another, the act can be suspended if the economy enters a low-growth phase or if the president declares an emergency.

Omnibus Budget Reconciliation Act of 1993

CONTENTS

President Clinton's Omnibus Budget Reconciliation Act of 1993 was an attempt to trim \$500 billion from the deficit over a five-year period. By 1993 the federal deficit had reached such enormous proportions that the act was intended to reduce only the rate of growth of the deficit, not the deficit itself.



The act featured a combination of spending reductions and tax increases that made the individual income tax more progressive—especially for the wealthiest 1.2 percent of taxpayers. These features, along with strong economic growth that raised tax revenues, accounted for the 1998 budget surplus shown in **Figure 10.6**.

Balanced Budget Agreement of 1997

Congress gave the president a **line-item veto**the power to cancel specific budget items without rejecting the entire budget-in 1996, but the Supreme Court declared it unconstitutional. This was followed by the Balanced Budget Agreement of 1997, which featured rigid **spending caps**-legal limits on annual discretionary spending-to assure that Congress balanced the budget by 2002.

Like many bills in Congress, however, most of the painful consequences of the cap would arise in later years rather than right away. When it was time to prepare the fiscal year 2000 budget, Congress was in a bind. Both the Republicans and the Democrats wanted to keep the spending caps to show their commitment to fiscal restraint. However, the Republican majority in Congress wanted to increase defense spending *and* reduce taxes. The only way to do this, however, was to make large cuts in politically popular programs like health, education, and veterans' programs-or relax the spending caps.

Reforming Entitlements

One of the major problems the federal government faces is the rapid growth of **entitlements**– broad social programs that use established eligibility requirements to provide health, nutritional, or income supplements to individuals. These programs are called *entitlements* because people are entitled to draw benefits if they meet the eligibility requirements. Entitlements make up most of the "mandatory" spending in the federal budget. While this ensures that annual spending authorizations are not needed, Congress can still decide to revise these programs. Congress is simply reluctant to revise them because these programs are very popular.



All Those Pages! George Washington was able to put all the figures for the national government's first budget on one large piece of paper. Today, the federal budget consumes thousands of pages.

Section 4 Assessment

Checking for Understanding

- **1. Main Idea** What is the difference between the federal debt and the federal deficit?
- 2. Key Terms Define deficit spending, federal debt, balanced budget, trust fund, crowding-out effect, pay-as-you-go provision, line-item veto, spending cap, entitlement.
- 3. Describe how the federal deficit affects the debt.
- **4. List** five ways the national debt can affect the economy.
- **5. Identify** four recent attempts to bring the federal deficit under control.
- 6. Identify three entitlement programs.

Applying Economic Concepts

7. Deficit Spending Identify those benefits that are directly related to entitlement programs. If you were given the task of reducing entitlement programs, which ones would you select to reduce or alter? Provide reasons for your choices.

Critical Thinking

CONTENTS

- Making Generalizations Make a list of five ways that you or your family directly benefit from federal government expenditures.
- **9. Understanding Cause and Effect** How can the federal debt affect worker incentive?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Chapter 10 Summary

Section 1

The Economics of Government Spending (pages 255–258)

• Government spending takes the form of expenditures on goods and services, most of which are public goods, and on **transfer payments** such as **grants-in-aid** for which the government receives nothing in return.



• Government spending influences the **private sector** by affecting the allocation of resources, the **distribution of income**, and by competing with the private sector for scarce resources.

Section 2

Federal Government Expenditures

(pages 260-264)

- The president is responsible for developing the **federal budget** for the **fiscal year**, which begins on October 1. When the budget is complete, the budget is sent to the House of Representatives.
- The House only deals with **discretionary spending**. **Mandatory spending** is not part of the annual budget process, although Congress can deal with it separately.
- Discretionary spending is broken down for action by various committees that propose **appropriations bills.** The budget is reassembled and voted on by the House and the Senate.
- If differences between the House and the Senate emerge, a compromise bill is developed on which both vote.
- The largest components of the federal budget are Social Security, national defense, income security, medicare, net interest on the federal debt, and health.

Section 3

State and Local Government Expenditures (pages 267–270)

- State budgets go through an approval process that varies from state to state. The largest state spending categories are intergovernmental expenditures, public welfare, insurance trust, and higher education. Others include highways, hospitals, and interest on state debt.
- The largest single category of spending for local governments is elementary and secondary education. Public utilities, hospitals, police protection, interest on debt, public welfare, and highways follow.

Section 4

Deficits, Surpluses, and the National Debt (pages 272–278)

- Federal budget deficits existed from 1970 until 1998 when the budget finally had a surplus.
- Deficits add to the federal debt, and the total debt reached \$5.7 trillion in fiscal year 1999, approximately \$3.7 trillion of which is held by the public.
- The debt affects the economy in several ways: Taxes are needed to pay the interest on the debt; the **distribution of income** is altered; purchasing power is transferred from the **private sector** to the **public sector**; and incentives to work, save, and invest may also be altered.
- Despite recent budget surpluses, the overall federal budget would show a deficit if not for the surpluses in the Social Security Trust Fund.
- The rapid growth of **entitlements** are still a threat to future budget surpluses.

Chapter 10 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 10—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Reviewing Key Terms

Write a sentence about each pair of terms below. The sentences should show how the terms are related.

- 1. public sector, private sector
- 2. transfer payment, grant-in-aid
- 3. distribution of income, deficit spending
- 4. federal budget, fiscal year
- 5. appropriations bill, balanced budget amendment
- 6. deficit spending, federal debt
- 7. deficit spending, crowding-out effect
- 8. entitlement, balanced budget
- 9. mandatory spending, discretionary spending
- 10. spending cap, federal budget deficit

Reviewing the Facts

Section 1 (pages 255–258)

- **1. Describe** the growth of government spending since 1940.
- 2. Identify two kinds of government spending.
- **3. Explain** three ways that government spending can impact the economy.

Section 2 (pages 260–264)

- **4. Identify** the three stages of approval required to establish the federal budget.
- **5. Identify** nine of the most important budget categories in the federal budget.

Section 3 (pages 267–270)

- **6. Explain** how states model their budget approval process.
- 7. Describe three major categories of state spending.
- 8. **Describe** three major categories of local spending.

Section 4 (pages 272–278)

- **9. Discuss** the relationship of the federal deficit to the federal debt.
- **10. Describe** how the debt can affect the economy.
- **11. List** four legislative attempts to deal with the problem of federal budget deficits.
- **12.** Cite at least six examples of entitlement programs.
- 13. Explain why entitlements are so named.

Thinking Critically

CONTENTS

1. Classifying Information Examine the major types of federal expenditures in Figure 10.3 on page 262. Classify each as to whether they are entitlement or non-entitlement programs. Use a chart like the one below to answer the question.

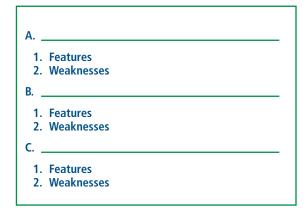
Program	Entitlement	Non-Entitlement

2. Making Comparisons Compare the federal expenditures for the three years included in Figure 10.4. Identify at least three major differences in the expenditures. How do changes in spending reflect the priorities of the administration that develops the budget?

Chapter 10 Assessment and Activities

Applying Economic Concepts

- 1. Human Capital Which of the categories in Figure 10.4 reflect an investment in human capital?
- **2. Deficit Spending** If you were a presidential adviser, what spending cuts would you suggest to balance the budget? Explain your reasoning.
- **3. Budget Deficits** The federal government has made several attempts to deal with the problem of federal budget deficits. Identify three of the pieces of legislation discussed in the chapter, and outline their main features and weaknesses in a chart similar to the one below.



Math Practice

A neighbor spent \$20,000 a year for 10 years and had an annual income of \$15,000 during this period. What is the neighbor's total debt?

Thinking Like an Economist

An economist likes to think in terms of trade-offs and opportunity costs. If you wanted to make changes to a balanced budget in any given year, what would be the opportunity cost of lowering taxes? Of increasing discretionary spending?

Technology Skill

Using a Spreadsheet Review the information on using a spreadsheet on page 29. If you need additional assistance to help you get started, read the information on page 348. Using the Internet, select one of the states of the United States and download or print its state budget. Using this information, create a spreadsheet to record and analyze the following categories.

- Name of State
- Budget Total
- Public Welfare
- Higher Education
- Insurance Contributions
- Highways
- Hospitals
- Interest on State Debt

Enter the information from the state's budget into the spreadsheet.

After entering the information, create a graph for the state's expenditures. What conclusions can you draw from your data? Where is the most money allocated? Compare the data for the state you are analyzing to **Figure 10.5**, which shows expenditures by all the states. Would you consider that state typical or atypical in where it spends its funds? Using a word processor, create a brief summary of your findings. Import your spreadsheet and graphs into the document. Print your results and share them with the class.

Building Skills

Using E-Mail Locate a Web site for your state's government on the Internet. Find out about current bills that your state legislature is considering. Using E-mail, compose a letter to your legislator requesting his or her opinion about current bills of interest to you that are being considered.

Prace the Leve

CONTENTS

Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook, Level 2.*

PROTECTING THE ENVIRONMENT: IS ENOUGH BEING DONE?

One of the sharpest debates of the last three decades has been over the state of the environment. Squaring off are business interests, who often view environmental regulations as unnecessary and costly, and environmental groups, who see such regulations as key to saving the planet.

Many analysts maintain that the earth is fragile, and that current economic activities are on the verge of damaging the planet in a fundamental way. Other analysts argue that economic activity always involves the exploitation of natural resources, resulting in some environmental impact. That impact, they claim, is negligible, especially in view of the many benefits of a thriving economy.

> Who's right? As you read the selections, ask yourself: Is current economic activity putting the earth at risk?

> > CONTENTS

The World Environment Is Threatened

A Case Study:

For us, the key limits [in the] twenty-first century are fresh water, forests, rangelands, oceanic fisheries, biological diversity, and the global atmosphere. Will we recognize the world's natural limits and adjust our economies accordingly, or will we proceed to expand our ecological footprint until it is too late to turn back? Are we headed for a world in which accelerating change outstrips our management capacity, overwhelms our political institutions, and leads to extensive breakdown of the ecological systems on which the economy depends?...

As world water use has tripled since mid-century, overpumping has led to falling water tables on every continent. . . .

Since mid-century, the demand for lumber has doubled, that for fuelwood has nearly tripled, while paper use has gone up nearly six times. In addition, forestlands are being cleared for slash-and-burn farming by expanding populations and for commercial crop production and livestock grazing....

[In] just the last half-century the oceanic fish catch increased nearly five times, doubling seafood availability per person for the world as a whole. [But] 11 of the world's 15 most important fishing areas and 70 percent of the major fish species are either fully or overexploited. . . .

[A]s with fisheries, overgrazing [of rangeland] is now the rule, not the exception. . . . Yet another of our basic support systems is being overwhelmed by continuously expanding human needs.

Perhaps the best single indicator of the earth's health is the declining number of species with which we share the planet. . . . [We] are now in the early stages of the greatest decimation of plant and animal life in 65 million years. . .

Even in a high-tech information age, human societies cannot continue to prosper while the natural world is progressively degraded.

> -Lester R. Brown and Christopher Flavin, Worldwatch Institute

ENTERPRISE

CON The American Environment Is Improving

Twenty-five years ago, only one-third of America's lakes and rivers were safe for fishing and swimming; today two-thirds are, and the proportion continues to rise. Annual wetlands loss has fallen by 80 percent in the same period, while soil losses to agricultural runoff have been almost cut in half. Total American water consumption has declined nine percent in the past 15 years, even as the population expands.... Since 1970, smog has declined by about a third, even as the number of cars has increased by half; acid rain has fallen by 40 percent; airborne soot particles are down 69 percent, which is why big cities have blue skies again.... [Emissions] of CFCs, which deplete stratospheric ozone, have all but ended.

Other environmental measures are almost uniformly positive. Toxic emissions by industry declined 46 percent from 1988 to 1996, even as petrochemical manufacturers enjoyed record U.S. production and copious profits. . . . The forested

acreage of the United States is expanding, with wildlife numbers up in most areas. . . . Since the Endangered Species Act was passed, only a few U.S. species have fallen extinct, not the thousands predicted, while species such as the bald eagle, gray whale, and peregrine falcon have recovered enough to no



longer require full legal protection. Only two major U.S. environmental gauges are now negative: continuing inaction against greenhouse gases and continuing loss of wildlife habitats to urban expansion.



An important conceptual lesson is being learned: When pollution stops, natural recovery does not require ponderous geological time....

[T]echnology has (for the moment, at least) entered a relatively benign phase in which products and industrial processes consume steadily fewer resources and produce steadily less waste....

Because the character of environmental progress is nonideological-reflecting well both on federal initiatives and on business-neither political

> camp knows how to extol what's happened. That no interest group sees itself as benefiting from public awareness of environmental success . . . [has] the effect of preventing commentators and voters from focusing on the locus of the real environmental emergencies the developing world.

> > -Gregg Easterbrook, social issues analyst

Analyzing the Issue

CONTENTS

- 1. What "important conceptual lesson" does Easterbrook refer to? How might this impact Brown and Flavin's argument?
- 2. Do the two selections address the same issues? Explain.
- 3. On what issue might Brown and Flavin agree with Easterbrook?

CHAPTER 11

Money and Banking

Economics & You

Why do you accept money in exchange for a good or service? Why were so many different kinds of money used around the world? In **Chapter 11**, you will learn about the development of money. To learn more about how our money and banking system works, view the Chapter 18 video lesson:

Money and Banking



Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 11—Chapter Overviews* to preview chapter information.

To carry out its economic functions, money must be acceptable, divisible, portable, and stable in value. **CLICK HERE**

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The Evolution of Money

SECTION 1

Study Guide

Main Idea

Money is any substance that functions as a medium of exchange, a measure of value, and a store of value.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below that illustrates the characteristics of money.



Key Terms

barter economy, money, medium of exchange, measure of value, store of value, commodity money, fiat money, specie, monetary unit

Objectives

After studying this section, you will be able to:

- 1. Explain the three functions of money.
- 2. Identify four major types of money used in early societies.
- 3. Describe the four characteristics of money.

Applying Economic Concepts

Money Did you trade items when you were younger? Read to find out more about trade and how the use of money makes it easier.

Cover Story

To the Colonies

The enterprising colonists being generally destitute of families, Sir Edward Sandys, the treasurer, proposed to the Virginia Company to send over a freight of



Virginia Company insignia

send over a freight of young women to become wives for the planters. The proposal was applauded, and ninety girls, "young and uncorrupt," were sent over in the ships that arrived this year (1620) and the year following, sixty more, handsome and well recommended to the company for their virtuous education and demeanor. The [cost of transport] was one hundred pounds of tobacco; but as the number became scarce, [it] increased to one hundred and fifty pounds; the value of which in money was three shillings per pound. . . .

-Holmes' American Annals, 1620

CONTENTS

t may seem odd to you that people once used a plant like tobacco as a form of money. Frequently, people used things that were easily available and valued by others as a form of money. Money is something we all take for granted, but without it—as we saw in the cover story—life would be quite different.

Think what life would be like in a **barter economy**, a moneyless economy that relies on trade. Without money, the exchange of goods and services would be greatly hindered because the products some people have to offer are not always acceptable or easy to divide for payment. For example, how could a farmer with a pail of milk obtain a pair of shoes if the cobbler wanted a basket of fish? Unless there is a "mutual coincidence of wants"—which means that two people want exactly what the other has and are willing to trade what they have for it—it is difficult for trade to take place.

Life is simpler in an economy with money. The farmer sells the milk for cash and then exchanges the cash for shoes. The cobbler takes the cash and looks for someone selling fish. Money, as it turns out, makes life easier for everybody in ways we may have never even thought about.

Functions of Money

Money can be any substance that serves as a medium of exchange, a measure of value, and a store of value. If it satisfies these three functions, it will be accepted and used by everyone in a society.

Medium of Exchange

For something to function as money, it must serve as a **medium of exchange**—something accepted by all parties as payment for goods and services. Throughout history, societies have used many materials as a medium of exchange, including gold, silver, and even salt. In ancient Rome, salt was so valuable that each soldier received an annual salt payment called a "salarium." The modern term for an annual income—or "salary"—is based on this Latin term.

Measure of Value

For something to serve as money, it must be accepted as a **measure of value**, a common denominator that can be used to express worth in terms that most individuals understand. This is what we observe whenever we see a price tag on somethinga value that we can use to make comparisons with other products. In the United States, our measure of value is expressed in dollars and cents.

Store of Value

For something to function as money, it must also serve as a **store of value**, the property that allows purchasing power to be saved until needed. For example, goods or services can be converted into money, which is easily stored until needed. Money enables a period of time to pass between earning and spending an income.

CYBERNOMICS SPOTLIGHT

CONTENTS

The Future of Money

As you have learned, money must have certain characteristics to perform its functions in the economy. Money must be accepted. This means that everyone in the economic system must agree that the money has value and be willing to take it as payment for debts. Money must also be divisible. This means that units of money can be divided into smaller units without losing their relative value. Money must be portable. This means that it must be possible to move the money from one place to another with ease. In addition, money must have a reasonably stable value. This means that a person will be able to buy about the same number or value of products today, next week, or next year.

Despite the widespread use and advantages of currency, some analysts predict that the use of electronic payments will grow tremendously. Have you heard of cybercurrency? Smart cards? Electronic money? One analyst defines cybercurrency as the use of microchip-based electronic money for financial transactions, via smart cards and the

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Internet. Some economists and analysts contend that cybercurrency has the potential to assume an important place in domestic and worldwide payment systems.

Nobel Prize-winning economist Milton Friedman noted that paper and coin eventually will give way to electronic money. Walter Wriston, the former president of the financial institution Citicorp, estimates that in the not-toodistant future, one in every four Americans will have a smart card. Smart cards are wallet-sized plastic cards that serve three purposes: as data carriers, for identification,

Money in Early Societies

The use of money developed because it makes life easier for people. Money comes in an incredible variety of forms, shapes, and sizes. Tea leaves compressed into "bricks" comprised money in ancient China, and compressed cheese was used in early Russian trade. The East African Masai used a currency made of miniature iron spears fastened together to form a necklace.

Today, this money would be classified as **commodity money**—money that has an alternative use as an economic good, or commodity. For example, the compressed tea leaves could be made into tea when not needed for trade. Other items became **fiat money**—money by government decree—such as the tiny, metallic coins used in Asia Minor in the seventh century B.C. These coins served as money largely because the government said they were money. The use of money became accepted because it served everyone's best interests to do so. In this sense, money was then—and is now—a social convention, much like the general acceptance of laws and government.

Money in Colonial America

The money used by early settlers in America was similar to the money found in early societies. Some of it was commodity money, and some was fiat money.

Many products-including gunpowder, musket balls, corn, and hemp-served as commodity money. It could be used to settle debts and make purchases, or could

even be consumed if necessary.

and for financial transactions. Wriston notes that "people will use an ATM or home computer to download the money from their bank accounts to the cards."

Features Do these new forms of money meet the characteristics of useful currency? Supporters say they do and, additionally, provide an added feature-transfer velocity—almost instantaneous transfer of funds from point to point. Another advantage is reduced transaction costs. Merchants pay credit card transaction fees, and those fees usually include a minimum that can erase profit margins on low-cost items. Research analyst Heather Aston says, "It doesn't make a lot of sense to have to process something that costs \$2 the same way you process something that costs \$50." Micropayment schemes eliminate the expensive step of asking the credit card issuer to confirm the card holder's ability to pay for each transaction. What is needed is confirmation that the encrypted serial number is valid.

Will Cybermoney Catch On? Some economists and analysts believe that the use of U.S. currency and credit cards is too deeply ingrained for new forms to displace them. While technological innovation may make cash less essential, public demand for it is strong. In addition, coin and paper money provide an advantage in privacy—you are in charge of your money and no one else needs to know. Will

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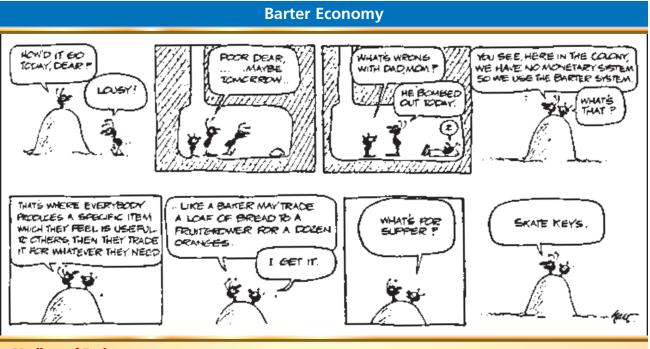
Did You Know?

Dollars and Cents The United States decimalized monetary system, based on dollars and cents, was adopted in 1784. The units of the monetary system were the mill (1/100th of a cent), cent, dime, dollar, and eagle (\$10).

cybermoney lead the way to a cashless age? Only the future will tell.



"Key" and sensing pad



Medium of Exchange As the cartoon shows, a barter economy can cause problems for those wanting to exchange goods for products they may use. *How does money function as a medium of exchange?*

A commonly accepted commodity money was tobacco, with a value set at three English shillings per pound by the governor of colonial Virginia in 1618. Two years later, as you read in the cover story, the colonists used some of this money to bring wives to the colonies.

Other colonies established fiat monies. In 1645 Connecticut set a monetary value for *wampum*-a form of currency the Narragansett Native Americans made out of white conch and black mussel shells. Because white shells were more plentiful than black ones, and because the Narragansett and the settlers used them in trade, one English penny was made equal to six white or three black shells. In 1648 the General Court of Massachusetts passed a law ordering the wampum to be "suitably strung" in lengths of 1, 3, and 12 pennies.

Paper Currency

As time passed, Americans used other forms of money. In some cases, state laws allowed individuals

to print their own paper currency. Backed by gold and silver deposits in banks, it served as currency for the immediate area.

Most states printed money in the form of taxanticipation notes that could be redeemed with interest at the end of the year. State governments printed these notes and then used them to pay salaries, buy supplies, and meet other expenditures until taxes were received and the notes redeemed.

Paper money was issued to finance the Revolutionary War. In 1775, *Continental dollars*, a form of fiat paper currency with no gold or silver backing, were printed by the Continental Congress. By the end of the war, nearly one-quarter *billion* Continental dollars had been printed to pay soldiers and buy supplies—a volume so large that it was virtually worthless by the end of the revolution.

Specie

A modest amount of **specie**-or money in the form of coins made from silver or gold-was also used in the colonies. These included English



shillings, Austrian talers, and various European coins that immigrants brought to the colonies.

Coins were the most desirable form of money, not only because of their mineral content, but because they were in limited supply. By 1776, only \$12 million in specie circulated in the colonies as compared to nearly \$500 million in paper currency.

Origins of the Dollar

When George Washington became president in 1789, the most plentiful coin in circulation was the Spanish peso. Consequently, one of Washington's first challenges was to establish a money supply for the new country, a task he assigned to Benjamin Franklin and Secretary of the Treasury Alexander Hamilton.

Pesos in America

Long before the American Revolution had begun, the Spanish were mining silver in Mexico. They melted the silver into bullion-ingots or bars of precious metals-or minted it into coins for shipment to Spain. When the Spanish treasure ships stopped in the West Indies to buy fresh provisions, however, they often became victims of Caribbean pirates who spent their stolen treasure in America's southern colonies.

Meanwhile, the colonies engaged in a profitable exchange known as the triangular trade, which exported rum in exchange for enslaved people and molasses. Molasses from the West Indies was shipped to the colonies where it was made into rum. The rum was shipped across the Atlantic Ocean to Africa, where it was exchanged for enslaved Africans. The Africans were packed into ships and taken across the Atlantic to the West Indies where they were sold for molasses and pesos. The molasses, silver pesos, and some enslaved people were then returned to the colonies to begin the triangle again.

From "Talers" to "Dollars"

Pesos were known as "pieces of eight," because they were divided into eight sub-parts known as *bits.* Because the pesos resembled the Austrian talers, they were nicknamed talers, which sounds

Paper Currency



Characteristics Various forms of paper currency have been used in the United States. What characteristics must money have to be a successful medium of exchange?

like the word "dollars." This term became so popular that Franklin and Hamilton decided to make the dollar the basic **monetary unit**, or standard unit of currency, in the U.S. money system.

Rather than divide the dollar into eighths as the Spanish had done with the peso, Franklin and Hamilton decided to divide it into tenths, which was easier to understand. Even today, some of the terminology associated with the Spanish peso remains, as when people sometimes call a 25-cent coin—one quarter of a dollar—"two bits."

Characteristics of Money

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The study of early money is useful because it helps us understand the characteristics that give money its value. To be successful, money must be portable, durable, divisible, and limited in supply.

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Portability

First, money must be portable, or easily transferred from one person to another, to make the exchange of money for products easier. Most money in early societies was very portable– including dog teeth, feather-stick money, wampum, tobacco, and compressed blocks of tea and cheese.

Durability

Money must also be reasonably durable so that it lasts when handled and does not deteriorate when being held as a store of value. Most colonial money was quite durable, especially monies like musket balls and wampum. Wampum, for example, did not require special care when being handled, and it lasted a long time. Even the fiat paper money of the colonial period had a type of durability in that it could be easily replaced by issuing new bills when old ones became worn.

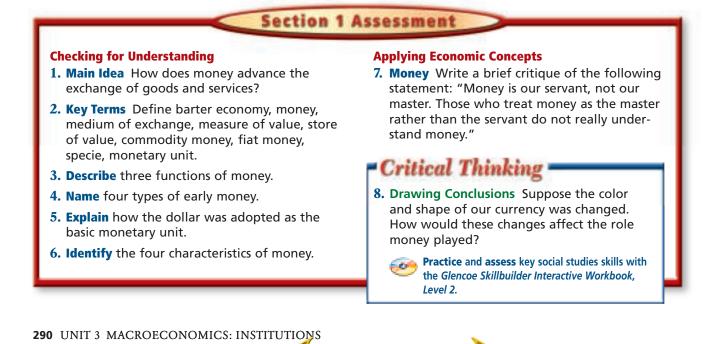
Divisibility

Money should be easily divisible into smaller units, so that people can use only as much as needed for any transaction. Most early money was highly divisible. In the case of the Masai's iron spear currency, the necklace was untied and some of the spears removed. The blocks of tea or cheese were cut with a knife. Bundles of tobacco leaves were broken apart.

Limited Availability

Finally, if something is to serve as money, it must be available, but only in limited supply. The dog teeth of New Guinea, for example, were extracted from packs of wild dogs. Because the islanders hunted the dogs for their teeth, the wild dog population never grew large. Stones used as money on the Yap Islands were carried in open canoes from other islands 400 miles away. Because navigation was uncertain and the weather unpredictable, only one canoe in 20 completed the round-trip–circumstances that limited the supply of stone money.

Money–like almost everything else–loses its value whenever there is too much of it, a major problem for most types of commodity money. In Virginia, for example, the price of tobacco went from 36 pennies a pound to 1 penny a pound after everyone started growing their own money. Wampum even lost its value when settlers used industrial dyes to turn the white shells into black– thereby doubling its value.



CONTENTS

Profiles Economics

A Fingertip Fortune: Dineh Mohajer

It might be hard to believe that a multimillion dollar business started in a bathroom, but that's exactly where Dineh Mohajer's Hard Candy cosmetics company was born.

The year was 1995. Fed up with a life of hard study as a pre-med student, the 22-year-old Mohajer recalls making a conscious decision to make a change. "I used to stare out the window," she said, "and think, 'I wonder what the civilians are doing out there?' So that summer I told myself, this is my last summer of real life. I'm rebelling! I'm not going to do it!"

HARD CANDY

Mohajer took a job at a Los Angeles boutique. One night, she decided she needed nail polish to match a pair of sky-blue sandals. In her bathroom, she applied her knowledge of chemistry from her pre-med classes to mix up some nail polish. The unusual color was a hit with her friends, so Mohajer, at the urging of her sister Pooheh, took it to the boutique owner, who agreed to sell it. Mohajer mixed up several more colors of nail polish, and called the line Hard Candy. The striking colors proved so popular that the boutique couldn't keep Hard Candy in stock. Mohajer took a loan from her parents and went into business full time. It was the start of something big.

RAPID SUCCESS

The colors Mohajer chose for her nail polishes, with hip names like "Tantrum," "Greed," and "Dork," were bold and hard-edged, unlike the more conservative colors available from the big cosmetics companies. They proved a hit with young, fashion-conscious women in Los Angeles. Hard Candy became the new, cool makeup among trend-setters, and its popularity was reported in national fashion magazines like *Vogue, Elle, Teen,* and *Seventeen.* Tens of thousands of young

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women across the country, eager to stay in style, ordered bottles of the nail polish. Within six months, Hard Candy was grossing more than \$70,000 a month. Within a year, annual sales had topped \$10 million.

The fashion industry, by definition, is volatile: what's "in" today is likely to be "out" tomorrow, so the long-term fortunes of Hard Candy are hard to predict. But there can be no doubt that it has proved a multimillion dollar, overnight success, born in the bathroom of a young woman who parlayed her love of fashion into a big business.

Examining the Profile

- 1. Identifying Cause and Effect What factors made Hard Candy successful?
- 2. For Further Research Conduct research to determine Hard Candy's current condition. Report on its market share and immediate prospects.

Early Banking and Monetary Standards

SECTION 2

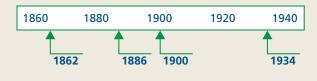
Study Guide

Main Idea

Although the monetary standard has changed throughout American history, an inconvertible fiat money standard is used today.

Reading Strategy

Graphic Organizer As you read the section, complete a time line similar to the one below by listing major events in American monetary history in the appropriate spaces.



Cover Story

Swiss Set to Abandon Gold Standard

Switzerland has always been regarded as a country that "understands" gold. It owns the world's fifth biggest gold reserves, its big banks still operate their own gold refineries, and the Swiss franc is the last currency still tigged to gold.



tied to gold. However, this weekend

One-ounce gold bar

the Swiss electorate is expected to do what would have been unthinkable a decade ago—abandon the gold standard. . . . [I]n law gold is still set at 142.9 Swiss francs per troy ounce.

Swiss france per froy ounce. The decision to sever the legal link between the Swiss franc and gold, is a reminder that [gold] has lost one of its biggest official cheer leaders. . . .

-The Financial Times (London) April 16, 1999

Key Terms

monetary standard, state bank, legal tender, United States note, national bank, National Bank note, national currency, gold certificate, silver certificate, Treasury coin note, gold standard, inconvertible fiat money standard

Objectives

After studying this section, you will be able to:

- 1. Explain the history of privately issued bank notes.
- 2. Describe an inconvertible money standard.

Applying Economic Concepts

Money Supply Managing the money supply is a difficult task. Read to see how we use different methods to keep the dollar strong.

he week after the article in the cover story was published, the Swiss adopted a new constitution—and abandoned the gold standard. Fortunately, there are other ways to keep the money supply sound so that the economy functions smoothly.

A **monetary standard**-the mechanism designed to keep the money supply portable, durable, divisible, and limited in supply-helps with this task. The United States has had several monetary standards in its history.

Privately Issued Bank Notes

During the Revolutionary War, nearly 250 million Continental dollars were printed. After the Revolution, Continental currency was worthless, and people did not trust the government to issue anything except coin. Accordingly, Article 1, Section 8, of the United States Constitution states:

The Congress shall have the power

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To coin money, regulate the value thereof, and of foreign coin, and fix the standard of weights and measures;

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Fiat Money The paper money in our economy is "fiat" money: it is money partly because government says it is money. *What part of the Constitution gives Congress the right to coin money*?

To provide for the punishment of counterfeiting the securities and current coin of the United States; . . .

To make all laws which shall be necessary and proper for carrying into execution the foregoing powers, and all other powers vested by this Constitution in the government of the United States, or in any department or officer thereof.

Article 1, Section 10, further states:

No State shall . . . coin money; emit bills of credit; make anything but gold and silver coin a tender in payment of debts. . . .

Because of these clauses, the federal government did not print paper currency until the Civil War. Instead, the paper money supply was left for private banks to produce.

Growth of State Banking

Banks in the colonial period were allowed to issue their own paper money, a practice not prohibited by the new Constitution. As a result, banking grew in popularity, and by 1811 the country had about 100 **state banks**–banks that received their charter to operate from a state government.

State banks issued their own currency by printing their notes at local printing shops. The banks then put these notes in circulation with the assurance that people could exchange them for gold or silver if they ever lost faith in the bank or its currency.

Abuses in Banking

At first, most banks printed only the amount of currency they could reasonably back with their gold and silver reserves. Others, however, were not as honest and became known as wildcat banks—fraudulent banks that printed large amounts of currency in remote areas to make the redemption of their currency difficult. These banks got their name from people who claimed that you had to be a wildcat to get to them.

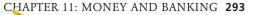
Problems With Currency

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Even when banks were honest, problems with the currency arose. First, each bank issued its own currency in different sizes, colors, and denominations. As a result, hundreds of different kinds of notes could be in circulation in any given city.

Second, because a bank could print more money whenever it wanted, the temptation to issue too many notes always existed. Third, counterfeiting became a major problem. With so many different types of notes in circulation, many counterfeiters did not even bother to copy other notes. Instead, they just made up new notes.

By the Civil War, the United States had more than 1,600 banks issuing more than 10,000 kinds of paper currency. Each bank was supposed to have backing in the form of gold or silver, but this was seldom the case. As a result, when people tried to buy something, merchants would often check their notes against the latest listing of good and bad currencies before deciding which ones to accept in payment.



The Greenback Standard

By the 1850s, the paper currency component of the money supply was badly in need of overhaul. Politically powerful local bankers, however, resisted change until an event came along that was to change banking forever in America-the Civil War.

Greenbacks

When the Civil War erupted, both the Union and the Confederacy needed to raise enormous sums to finance the war. Congress tried to borrow money by selling bonds, but this did not raise as much money as the federal government needed. As a result, Congress decided to print paper currency for the first time since the Constitution was adopted.

LUNU ATAG) M I C S L A N C E						Figure 11.	
The 50 State Quarter Program								
The First Five Quarters:								
		Ine	e 10-Year Re	lease	Schedule:			
Year	States	Year	States	Year	States	Year	States	
1999	Delaware	2002	Tennessee	2005	California	2008	Oklahoma	
	Pennsylvania		Ohio		Minnesota		New Mexico	
	New Jersey		Louisiana		Oregon		Arizona	
	Georgia		Indiana		Kansas		Alaska	
	Connecticut		Mississippi		West Virginia		Hawaii	
2000	Massachusetts	2003	Illinois	2006	Nevada			
	Maryland		Alabama		Nebraska			
	South Carolina		Maine		Colorado			
	New Hampshire		Missouri		North Dakota			
	Virginia		Arkansas		South Dakota			
	New York	2004	Michigan	2007	Montana			
2001			Florida		Washington			
2001	North Carolina				711			
2001	North Carolina Rhode Island		Texas		Idaho			
2001			Texas Iowa		Idano Wyoming			

Using Charts The United States Mint is introducing 50 new quarters over a 10-year period to celebrate individual states' histories and traditions. In what order are the quarters being released?

CONTENTS

In 1861, Congress authorized the printing of \$60 million of demand notes. Although these notes had no gold or silver backing, they were declared **legal tender**—fiat currency that must be accepted in payment for debts. These new federal demand notes were soon dubbed greenbacks because both sides of the notes were printed with green ink to distinguish them from the state notes already in circulation.

In 1862, Congress passed the Legal Tender Act, authorizing the Union government to print \$150 million of **United States notes**, a new federal fiat currency that also had no gold or silver backing. These new notes were also called greenbacks, and they accounted for half of the currency in circulation by 1863. Meanwhile, the Confederacy did essentially the same thing by printing large amounts of paper money to finance its war efforts.

National Currency

As the war dragged on, people feared that greenbacks-like the Continental dollars used to finance the Revolutionary War-might also become worthless. When the greenbacks did lose some of their value, people avoided using them, forcing Congress to find another way to finance the war.

The solution was to create a National Banking System (NBS) made up of **national banks**—privately owned banks that received their operating charters from the federal government. These banks issued **National Bank notes** or **national currency**, paper currency of uniform appearance that was backed by United States government bonds. The government hoped that rigorous bank inspections and other high standards would give people confidence in the new NBS and its currency.

This backing made the currency seem more secure to the public. It also generated a new demand for war bonds because any group that wanted to set up a national bank had to first purchase government bonds as part of the requirement to get the national charter. The bonds were then put on deposit with the United States Treasury as backing against the currency.

Initially, few state-chartered banks joined the system because it was easier for them to print their money at a local printer than to join the NBS.



and Practices Web site at <u>epp.glencoe.com</u> and click on **Chapter 11—Student Web Activities** for an activity on the new dollar coin.

Finally, in 1865 the federal government forced state banks to join the National Banking System by placing a 10 percent tax on all privately issued bank notes. Because state-chartered banks could not afford the tax, they withdrew their notes, leaving only the greenbacks and national currency in circulation.

As a result of the need to finance the Civil War, the makeup of the money paper supply shifted from being entirely privately-issued to being entirely publicly-issued.

Gold Certificates

The removal of more than 10,000 different sizes and denominations of state bank notes simplified the currency system. Before long, however, new types of federal currency appeared.

In 1863, the government issued **gold certificates** paper currency backed by gold placed on deposit with the United States Treasury. At first, these certificates were printed in large denominations for banks to use when settling differences with each other at the end of the business day. In 1882, the government began printing gold certificates in smaller denominations for public use.

Silver Certificates

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In 1886, the government introduced **silver certificates**—paper currency backed by silver dollars and bullion placed on reserve with the Treasury. Silver certificates were modeled after the highly popular gold certificates, but they were really designed to prop up sagging silver prices for western silver miners.

At the time, the government was already minting silver dollars. However, silver dollars were bulky and inconvenient to use, so the act was amended in 1886 to allow silver dollars to be used as backing for the new silver certificates. This appeased both the silver miners and the public who wanted an alternative to the generally unwanted silver dollars.

Treasury Coin Notes

In 1890, the federal government printed the fifth, and last, type of paper currency issued before the banking system was overhauled in 1913. The currency came in the form of **Treasury coin notes**—paper currency issued by the Treasury that was redeemable in both gold and silver. The law was repealed in 1893, and further issues of Treasury coin notes were ended.

The Gold Standard

In 1900, Congress passed the Gold Standard Act, fixing the price of gold at \$20.67 an ounce. For the first time, the United States was on a **gold standard**—a monetary standard under which the basic currency unit is equal to, and can be exchanged for, a specific amount of gold.

The Gold Standard Act did not affect the type of currency people used. People continued to use the same greenbacks, National bank notes, gold certificates, silver certificates, and Treasury coin notes as they did before. The difference was that these notes could now be exchanged for gold at the Treasury at any time.

Advantages of a Gold Standard

A gold standard has two major advantages. First, some people feel more secure about their money if they know it can be converted into gold.

Second, it is supposed to prevent the government from printing too much paper currency. In theory, the government promises to print only as much currency as can be backed by, or exchanged into, gold. This keeps the currency relatively scarce and helps to maintain its value.

In reality, the United States never did have enough gold to back all of its currency. This is normally the case whenever a country goes on a gold standard because it is unlikely that everyone will want to convert all of their currency into gold at the same time. Consequently, it is usually sufficient to maintain the *appearance* of having enough gold to back the paper money.

Disadvantages of a Gold Standard

One disadvantage of a gold standard is that the gold stock may not grow fast enough to support a growing economy. If new gold supplies cannot be found, the money supply may not be able to expand, thereby restricting economic growth.

A second disadvantage is that people may suddenly decide to convert their currency into gold, thereby draining the government's gold reserves. This can easily happen if a government is trying to maintain the appearance of having enough gold– when in fact it does not.

Third, we know that the price of gold is likely to change dramatically over time if it is not fixed. For example, in Chapter 6 we saw that the price of gold fell from \$850 an ounce in 1980 to \$280 in early 1999. This means that any government that tries to "fix" the price of gold by buying and selling unlimited amounts at an official price will face—and must triumph over—tremendous market pressures.

Finally, there is always the political risk of failure. A government that announces an official price for gold looks ineffective and foolish if it cannot carry out its intentions. When the Swiss abandoned the gold standard, for example, the "official" price of an ounce of gold was 142.9 Swiss francs–or about \$95. Clearly no one was going to sell gold to the Swiss at that price. Nor were the Swiss willing to sell their gold on the open market at that price.



Why the Notches? Why do dimes, quarters, and half-dollars have notched or reeded edges while pennies and nickels don't? The United States Mint notched the edges of coins containing gold and silver to hinder people from shaving off quantities of the precious metals. Since pennies and nickels contain cheaper metal, they have no notches.



THE GLOBAL ECONOMY

WHY ISN'T THERE JUST ONE CURRENCY?

Some frustrated American tourists who try to communicate in foreign lands by screaming English words at a hundred decibels may wish that everyone just spoke English and used the dollar. Wouldn't that make it easier for international trade? There would be no more standing in line at the bank window waiting for the teller to exchange currencies and take a cut off the top.

That might work well—except for three things. First, most people like their currency. The depictions on paper money and coins reinforce national icons and symbols. Why would the Brits want to trade in Queen Elizabeth's noble chin for George Washington's wooden-toothed grimace? Second, national currencies allow countries to manage their own banking system (though they cannot insulate themselves from the policies of trading partners).

Abandoning the Gold Standard

The gold standard remained in force until the Depression of the 1930s when banks began to fail in record numbers. Because of the uncertain times, and because people felt safer holding gold rather than paper currency, they began to cash in their dollars for gold. Foreign governments with large holdings of dollars began to do the same thing.

The federal government feared it could not continue to back the money supply with gold, so on August 28, 1933, President Franklin D. Roosevelt declared a national emergency. As part of the emergency, the government decreed that anyone holding more than \$100 worth of gold or gold certificates must file a disclosure form with the United States Treasury.

Several months later, the Gold Reserve Act of 1934 was passed, which required citizens, banks, and businesses to turn their gold and gold certificates over to the United States government. Those Third, most countries are reluctant to surrender control of their macroeconomic policy to foreigners. Suppose Spain's 20 percent unemployment rate demands urgent attention in the form of lower interest rates, yet Portugal's higher inflation rate makes the authorities nervous about easier money. If Spain and Portugal shared a currency, they would have to share policy prescriptions. That would be like two patients in a doctor's waiting room agreeing to the same medication, even though they suffered from different ailments.

> -From Here to Economy by Todd G. Buchholz, Dutton, 1995

Critical Thinking

- 1. Analyzing Information Why does the writer believe countries will not accept a common currency?
- 2. Drawing Conclusions Read to find out about the euro. Is the writer's argument that nations will not accept using the same currency valid? Why or why not?

who had filed a disclosure had no choice but to surrender their gold holdings. Others simply ignored the government and kept their gold. Regardless, the United States went off the gold standard in 1934 when it confiscated gold from private citizens.

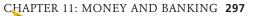
The Inconvertible Fiat Money Standard

Since 1934 the United States has been on an **inconvertible fiat money standard**—a monetary standard under which the fiat money supply cannot be converted into gold or silver by its citizens.

A Managed Money Supply

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The money supply of the United States, like those of other major industrialized countries in the world, is a managed money supply. In other words,



the government or its designated agent controls the quantity, composition, and even the quality of the money supply.

This task is somewhat easier now that a single currency issued by the Federal Reserve System has replaced the multiple currencies that appeared after the Civil War. National currency and Treasury coin notes were withdrawn from circulation in the 1930s, and gold certificates were confiscated in 1934. The last issue of United States notes (greenbacks) took place in 1968. Silver certificates were also retired, and the government stopped redeeming them for silver dollars in 1968. Americans have been allowed to own gold and silver certificates since 1975, but neither is officially part of the money supply.

Today, the tangible component of modern money consists of coins and Federal Reserve notes. Intangible components consists of traveler's checks along with checking and savings accounts. How well these substances function as money depends on how well the four characteristics of money are satisfied.

Characteristics of Modern Money

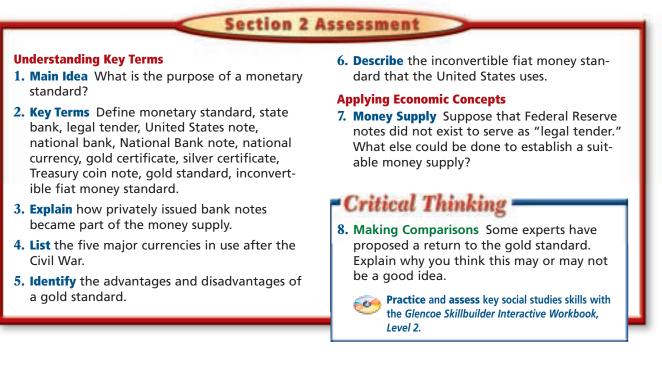
Although money has changed in shape, kind, and size over the years, modern money shares the same characteristics of early money. Modern money is *portable*. Currency is lightweight, convenient, and can be easily transferred from one person to another. The same applies to the use of checks.

Modern money is reasonably *durable*. Metallic coins last about 20 years under normal use. Paper currency also is reasonably durable, with a \$1 bill lasting about 18 months in circulation. Even the introduction of the new Sacagawea dollar coin is part of an attempt to make the money supply more durable by replacing low-denomination currency with coins.

Modern money is *divisible*. The penny, which is the smallest denomination of coin, is small enough for almost any purchase. In addition, checks can be written for the exact amount.

If anything, modern money has an uneven track record when it comes to *limited availability* and stability in value. The money supply often grew at a rate of 10 to 12 percent a year in the early 1970s, which contributed greatly to the inflation of the period. It slowed considerably after that, contributing to the period of relative price stability in the 1990s.

In the end, the money supply can be managed, and price stability can be maintained—but only if the government and monetary authorities have the political courage to do so.



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298 UNIT 3 MACROECONOMICS: INSTITUTIONS

Developing Multimedia Presentations

Skill

TECHNOLOGY

Your economics teacher has assigned a presentation about how banks operate. You want to develop a presentation that really holds your classmates' attention. How do you go about it?

Learning the Skill

A multimedia presentation involves using several types of media, including photographs, videos, or sound recordings. The equipment can range from simple cassette players, to overhead projectors, to VCRs, to computers, and beyond.

Multimedia, as it relates to computer technology, is the combination of text, video, audio, and animation in an interactive computer program. You need certain tools to create multimedia presentations on a computer, including computer graphics tools and draw programs, animation programs, and authoring systems that tie everything together. Your computer manual will tell you which tools your computer can support.

Various equipment that can be used in multimedia presentations

- **2.** Which kinds of media equipment are available at my school or local library?
- **3.** What types of media can I create to enhance my presentation?
- 4. Which of the media forms does my computer support?

Application Activity

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Choose an economist from the twentieth century and create a multimedia presentation about his or her theories. Use as many multimedia materials as possible, and share your presentation with the members of your class.

Practicing the Skill

Plan and create a multimedia presentation on a topic found in the chapter, such as the development of money in colonial America. List three or four major ideas you would like to cover. Then think about how multimedia resources could enhance your presentation. Use the following questions as a guide when planning your presentation.

1. Which forms of media do I want to include? Video? Sound? Animation? Photographs? Graphics?

The Development of Modern Banking

SECTION 3

Study Guide

Main Idea

The Federal Reserve System serves the monetary needs of the federal government and controls the monetary system.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing at least three kinds of depository institutions.



Key Terms

Federal Reserve System, central bank, Federal Reserve note, run on the bank, bank holiday, commercial

bank, demand deposit account (DDA), thrift institution, mutual savings bank (MSB), savings bank, NOW accounts, savings and loan association (S&L), credit union, share draft account, deregulation, creditor

Objectives

After studying this section, you will be able to:

- 1. **Relate** the effects of Depression-era bank failures on deposit insurance creation.
- 2. Identify three other forms of depository institutions.
- 3. Describe the reasons for the S&L crisis in the 1980s.

Applying Economic Concepts

Demand Deposit Accounts You may think that checking accounts are pretty useful. Read to find out how they replaced the carrying of large amounts of cash to make life easier for everyone.

Cover Story

Suspicious Internet Banking

Today more and more banks are offering financial services via the Internet. While the vast majority of



these are entirely legitimate, the sad fact is that a few unscrupulous people may take advantage of the anonymity of the Internet to perpetuate fraud. . . . [W]e [the FDIC] offer two items you may find helpful in determining . . . suspicious Web sites.

More banks go online.

ing ... suspicious Web sites. [The first is a] searchable database [that] will help you

determine if an institution has a legitimate charter and is a member of the FDIC.

[The second is a] special alert financial institution

[The second is a] special after mathematical letter . . . pertaining to unauthorized banking operations currently identified. . . .

-FDIC, June 10, 1999

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B anks fulfill two distinct needs. They provide a safe place for people to deposit their money, and they lend excess funds to individuals and businesses temporarily in need of cash. This can only happen if the nation has a strong banking system.

Revising the Banking System

In 1863, the federal government strengthened the financial system by passing the National Banking Act. It set up a system of nationally chartered and inspected banks. Yet problems persisted as financial crises and recessions marked the next half century. Each crisis led to calls for reform, but when the crisis ended, the protests faded away. Finally, when consumer and commercial credit dried up during the panic of 1907, the need for reform could no longer be ignored. The government set up a commission to formulate a plan for a new system.

The Federal Reserve System

Reform came in 1913 when Congress created the **Federal Reserve System**, or Fed, as the nation's first true central bank. A **central bank** is a bank that can lend to other banks in times of need.

To ensure membership in the Fed, all national banks were required, and all state-chartered banks were eligible, to become "members"—or part owners—of the Fed. Because the Fed was organized as a corporation, any bank that joined had to purchase shares of stock in the system, just as a private individual purchases shares in a regular corporation. As a result, privately-owned banks own the Federal Reserve System, not the government.

Despite its private ownership, the Fed is publicly controlled. The president appoints, subject to congressional approval, the Fed's Board of Governors and its chairperson.

Finally, **Federal Reserve notes**—paper currency issued by the Fed that eventually replaced all other types of federal currency—were added to the money supply. Federal Reserve notes were backed by gold when first issued in 1914, but became inconvertible fiat money after 1934.

Banking During the Great Depression

Despite the reforms many banks were only marginally sound during the 1920s. Part of the reason was the over-expansion in banking that took place between 1880 and 1921. Although some consolidation occurred between 1921 and 1929, the banking industry was overextended when the Great Depression began in 1929.

As **Figure 11.2** shows, the number of bank failures during the 1930s was staggering. At the start of the Depression, about 25,500 banks existed—none of which had deposit insurance for their customers. As a result, concern about the safety of bank deposits often caused a **run on the bank**—a rush by depositors to withdraw their funds from a bank before it failed. This made the situation even worse and caused more banks to fail.

To ease the situation, on March 5, 1933, President Roosevelt announced a **bank holiday**–a brief period during which every bank in the country was required to close. Several days later, after Congress passed legislation that strengthened banking, most banks were allowed to reopen. The Great Depression took its toll, however, and by 1934 more than 10,000 banks had closed or merged with stronger partners.

Federal Deposit Insurance

When banks failed during the Depression, depositors lost almost all their savings. The Banking Act of 1933, also known as the Glass-Steagall Act, was passed to strengthen the banking industry. The act also created the Federal Deposit



Purposes From early times on, banks provided safe storage facilities, interest payments on deposits, money transfers, and loans. What is the purpose of the Federal Deposit Insurance Corporation?



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STANDARD &POOR'S

Figure 11.2

Number of State and National Banks 35,000 1929 About 25,000 1921 More than 31,000 banks exist when the state and national banks 30,000 Depression starts. State Banks exist in the country. National Banks Banks, Total 1985 Wave 25,000 of bank mergers begins. 1934 Five years after 20,000 the Depression begins, approximately 14,100 banks remain. 15,000 10,000 1865 The number of national banks increases dramatically as the 10% tax takes effect. 5,000 1791 1865 1921 1934 2000

Source: Federal Deposit Insurance Corporation and Historical Statistics of the United States, Colonial Times to 1970

Using Graphs The number of banks in the United States grew rapidly after 1880 and peaked in 1921. A period of mergers and consolidations took place from 1921 to 1929, after which the Great Depression took its toll. The number of banks remained relatively constant from 1933 to 1985, when another wave of mergers took place. What can you infer about the ratio of state banks to national banks?

Visit epp.glencoe.com and click on

Textbook Updates—Chapter 1 for an update of the data.

Insurance Corporation (FDIC) to insure customer deposits in the event of a bank failure. The initial coverage was only \$2,500 per account, but it has since been increased to a maximum of \$100,000 for one person at one bank.

The insurance did little for those who lost their savings before 1934, but it has provided a sense of security in banking ever since. After the FDIC was

CLICK HERE

created, people worried less about the safety of their deposits, reducing the number of runs on a bank.

Today, protection provided by the FDIC goes far beyond deposit insurance. As you read in the cover story, the FDIC aggressively pursues ways to protect consumers against fraudulent banks-even those not insured by the FDIC.



Other Depository Institutions

Most of the early U.S. banks were **commercial banks**—banks that catered to the interests of business and commerce. They had the power to issue checking accounts. Checking accounts are also called **demand deposit accounts (DDAs)**—accounts whose funds could be removed by simply writing a check without prior approval from the depository institution. Other financial institutions, called **thrift institutions**, or thrifts, accepted the deposits of small investors but did not have DDAs until the mid-1970s.

Savings Banks

One of the oldest thrift institutions in the United States is the **mutual savings bank (MSB)**, a depositor-owned financial organization operated only for the benefit of its depositors. Later, many MSBs decided to sell stock to raise additional financial capital. These institutions then became **savings banks** because they were no longer mutually owned by depositors.

Mutual savings banks got their start in the late 1700s. At that time, commercial banks were not interested in the accounts of small wage earners. Savings banks emerged to fill that need and became very popular with consumers.

By the mid-1800s, commercial banks, along with the savings and loan associations, began to compete more heavily with the savings banks. As a result, savings banks did not spread beyond their foothold in the industrial northeast and the Pacific northwest.

STANDARD &POOR'S

INFOBYTE

Interest Rates Interest rates represent the time value of money. In other words, a dollar today is worth more than a dollar one year from now. To compensate investors for the risks of investment, interest rates must take into account inflation, liquidity, credit, and other risks.

Even so, savings banks had a powerful influence. In 1972, the Consumer's Savings Bank of Worcester, Massachusetts introduced Negotiable Order of Withdrawal, or **NOW accounts**, a type of checking account that pays interest. Because commercial banks held most checking accounts at the time, they strongly opposed NOW accounts. NOW accounts proved popular, however, and they were offered nationwide after 1980.

Savings and Loan Associations

Another type of financial institution is the **savings** and loan association (S&L)—a depository institution that invests the majority of its funds in home mortgages. S&Ls began as cooperative clubs for homebuilders in the 1800s. The association's members promised to deposit a certain sum regularly into the association. Members then took turns borrowing money to build a home.

Later, in the 1930s, the Federal Home Loan Bank Board was created to supervise and regulate individual savings and loan associations. The Federal Savings and Loan Insurance Corporation (FSLIC), a federal government agency like the FDIC that serves commercial bankers, was also created to insure savings and loan deposits.

Credit Unions

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A fourth type of depository institution is the **credit union**—a nonprofit service cooperative that is owned by, and operated for, the benefit of its members. Costs are generally low because a sponsor such as the members' place of employment often provides management, clerical help, and office facilities.

Because most credit unions are organized around an employer, contributions generally are deducted directly from a worker's paycheck. More recently, **share draft accounts**—or interest-earning checking accounts issued by credit unions—were introduced to compete with NOW accounts.

Crisis and Reform in the 1980s

Because of the massive banking failures during the Great Depression, financial institutions were closely regulated from 1933 through the 1970s. The regulations even applied to maximum

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rates of interest that could be paid on checking and savings accounts, as well as to restrictions on how and to whom the institutions could lend their funds.

By the late 1970s, most financial institutions were calling for relief from federal regulations. When Ronald Reagan was elected president in 1980, the political climate changed, allowing **deregulation** the removal or relaxation of government restrictions on business.

Deregulation reduced the differences between competing financial institutions. First, the requirement that set maximum interest rates on savings accounts was phased out. This action eliminated the advantage that savings banks and S&Ls had over commercial banks when it came to paying higher interest rates on savings accounts.

Second, NOW accounts could be offered on a nationwide basis by any type of financial institution. This provision eliminated the advantage that commercial banks had with their check-issuing powers.

Careers



Bank Teller

When you go to a bank, a bank teller often handles your money. The bank teller's job is to process a customer's transactions.

The Work

Bank tellers handle a wide range of banking transactions, including cashing checks, accepting deposits and loan payments, and processing withdrawals. Bank tellers may

sell savings bonds and traveler's checks, and handle foreign currencies or commercial accounts. They are trained to explain the various types of accounts and financial services the bank offers.

Qualifications

Tellers need an aptitude for using computers, and they must be quick, accurate, and honest. Good numerical, clerical, and communication skills are a must. A bank teller's job is an entry-level position. After a few years, a bank teller can be promoted to be a personal banker or into a management position. Third, all depository institutions could borrow from the Federal Reserve System in times of need, a privilege previously reserved for commercial banks. In return, all depository institutions were required to set aside a larger part of their customers' deposits in the form of reserves.

The Savings and Loan Crisis

An S&L crisis unfolded slowly but surely during the 1980s. In 1980 the United States had 4,600 S&Ls. By mid-1988, bankruptcies and mergers reduced the number to about 3,000. By the early 1990s, fewer than 2,000 institutions survived.

Deregulation was one of the reasons for the crisis. Savings and loan institutions were used to having the government set their interest rates and determine what types of loans they could make. Most S&Ls, therefore, were not well prepared to face real competition in the marketplace.

Another problem was high interest rates. Most S&Ls made long-term, low-interest loans to homeowners in the early 1970s. When interest rates reached record levels in the early 1980s, S&Ls ended up paying more on funds deposited with them than they earned on the loans they already made.

A third problem was the relatively small capital reserves kept by the S&Ls to absorb bad loansreserves about half the size that commercial banks kept. This meant that several bad loans could force an S&L to go out of business, rather than be absorbed by the capital accounts.

Deregulation also resulted in fewer federal inspectors to make sure the rules and regulations were followed. As a result, a few institutions were able to engage in fraud on a scale seldom seen before.

Reforming the Thrift Industry

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The Financial Institutions Reform, Recovery, and Enforcement Act (FIRREA) was passed in 1989. This act abolished the independence of the savings and loan industry and is regarded as the most significant financial legislation since the Depression.

Many S&Ls were profitable during the crisis. These institutions were allowed to continue operations, and many even kept the words *savings and loan association* in their titles. Others, however, chose to change their name to distance themselves from the crisis that had tarnished so many reputations.

Even so, the cost of the thrift crisis to taxpayers was enormous, amounting about \$300 billion. This amounted to approximately \$1,200 for every man, woman, and child in America.

Dealing With Failed Banks

Bank failures were also a problem in the 1980s. If a bank is in danger of collapse, the FDIC can seize the bank and either sell it to a stronger one or liquidate it and pay off the depositors. The forced sale or liquidation is done in secrecy to prevent panic withdrawals and to prevent shareholders from selling their worthless stock to unsuspecting investors.

Either way, depositors have little to fear because they are covered up to the \$100,000 FDIC insurance limit. If an account has more than this, the depositor may go to court as a **creditor**-a person or institution to whom money is owed-and sue the bank's owners to recover the rest.

Banks fail for many reasons, but poor management is the primary cause. Some banks make loans without adequate collateral, others fail to keep expenses under control, and still others may be victims of a weak economy. The reforms instituted as a result of the S&L crisis, however, have made all financial institutions safer.

Change in the 1990s

The 1980s were so turbulent that caution became the watchword of the 1990s. The thrift crisis was largely over, and the surviving financial institutions adopted more conservative lending policies, which helped them return to profitability.

Along with stronger federal regulations, all financial institutions were required to strengthen their capital reserves. The FDIC, as we saw in the cover story, even provides innovative ways to help the public discover and prevent abuses by fraudulent financial institutions.

Two trends that emerged at the beginning of the decade were in full swing by the end of the century. One was the improving health of all financial institutions. The second was the continued erosion of historical differences among the commercial banks, savings banks, S&Ls, and credit unions.

Section 3 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Why was the Federal Reserve System created?
- 2. Define Federal Reserve System, central bank, run on the bank, bank holiday, commercial bank, demand deposit account (DDA), thrift institution, mutual savings bank (MSB), savings bank, NOW accounts, savings and loan association (S&L), credit union, share draft accounts, deregulation, creditor.
- **3. Explain** why the National Banking System was created.
- Explain why deposit insurance developed in the 1930s.
- 5. Identify three depository institutions.
- 6. **Describe** four factors contributing to the S&L crisis.

Applying Economic Concepts

7. Demand Deposit Accounts Adam Smith argued that a competitive economy functions best when everyone pursues his or her own best interests. Explain how the self-interest of state-chartered banks in 1865 led to the development of demand deposit accounts.

Critical Thinking

- 8. Drawing Conclusions The FDIC insures deposits up to \$100,000. What would you do if you had \$400,000 you wanted to deposit and insure?
- **9. Summarizing Information** What is a demand deposit account?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

JULY 19, 1999

Technology now exists for businesses to bill their customers over the Internet and for the customers to return payment over the Internet. Bankers are hoping that this electronic billing will allow banks to continue managing money for companies.

The Battle To Be Your Online Bill Collector

Every year, American business sends out 29 billion bills. And by any measure, the exercise isn't much fun. For companies, printing, processing and posting a typical consumer bill runs about 90¢...

But for banks trying to make it on the Internet, bills are cool. Bankers see bills as surefire eyeball-grabbers in an environment where it's tough to command consumer attention—and a key to protecting their existing business managing cash for big companies. Increasingly, banks are battling high-tech competitors for control of Internet billing, or electronic-bill presentment, as it is called. . . .

The question is who will become the bill collector on the Net. Bankers reckon that if they

can turn their Web sites into mailboxes for electronic bills, they can become key entry points on the Net-portals even. That would enable them to sell other financial services online. The fear is that existing portals, such



CONTENTS

Newsclip

as Yahoo! or even America Online, will become centers of bill payment and, in turn, siphon off existing bank businesses....

Banks have their advantages. They can offer customers simultaneous access to their



bills and their money. Banks have long relationships with billers, such as utilities and retailers, and centuries of experience in protecting people's money. . . .

Big banks also are worried that technology companies offering bill presentment could muscle into one of their fastest-growing businessesmanaging cash for big companies. After all, distributing and collecting bills is a close cousin to cash management....

At this point, predicting how the industry will shake out is premature. Banks and technology companies already have formed several alliances aimed a[t] delivering bills on the Net. More combinations are likely. What's clear, though, is the banks know they are running out of time to get their Internet billing act together.

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Examining the Newsclip

- 1. Making Comparisons What are some advantages that banks can offer customers compared to Internet companies?
- 2. Analyzing Information Why are banks concerned that Internet companies will become bill payment centers?

Section 1

The Evolution of Money (pages 285–290)

- Money is any substance that serves as a medium of exchange, a measure of value, and a store of value.
- **Commodity money,** wampum, **specie**, and paper currency were used extensively in colonial America.
- The Continental Congress issued large amounts of **Continental dollars** to finance the American Revolution, but excessive issue made the money worthless by the end of the war.
- The U.S. dollar was based on the Spanish peso, which was imported from the West Indies.
- All successful monies have portability, durability, divisibility, and limited availability.

Section 2

Early Banking and Monetary Standards (pages 292–298)

- From the American Revolution to 1861, paper currency was issued by state-chartered, privately owned banks. The federal government issued coins but no paper currency.
- The variety of private notes eventually made the money supply difficult to use, and fraudulent wildcat banks often abused the privilege of printing currency.
- The government sold bonds and then printed **greenbacks** to finance the Civil War.
- In 1863 the National Banking System was set up to strengthen the banking system and to generate new demand for government bonds. Later, other federal currencies became popular, including **gold certificates**, silver certificates, and Treasury coin notes.
- The **gold standard** was adopted in 1900, which made all currencies, including **Federal Reserve notes**, convertible into gold on demand. However, the country left the gold standard in 1934 because gold stocks ran low during the Great Depression.

- After 1934 Americans could not convert dollars into gold.
- Today, most governments manage their currencies with respect to quality, size, composition, and availability. Most modern money functions well as a medium of exchange and is portable, durable, divisible, and reasonably stable in value.

Section 3

The Development of Modern Banking (pages 300–305)

- The National Banking System brought uniformity to banking. National banks also issued their own currency known as **National Bank notes.** State-chartered banks that chose not to join gave up printing currency in favor of **demand deposit accounts.**
- The **Federal Reserve System** (Fed) was established in 1913, giving the country a true **central bank.** All **national banks** were required to join the Fed, and all **state banks** were also invited to join.
- Despite the Fed, massive banking failures occurred during the Great Depression.
- Other depository institutions-mutual savings banks, credit unions, and savings and loan associations-appeared to cater to the small investor ignored by commercial banks.

CONTENTS



- Deregulation, high interest rates, inadequate financial reserves, and fraud reduced the numbers of S&Ls by half in the 1980s.
- The financial crisis was largely over by the end of the decade, and the 1990s saw the continued growth of similarities between commercial banks, savings banks, and S&Ls.

Chapter 11 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 11—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

On another sheet of paper, place each of the vocabulary terms in its correct historical period(s). Some terms will appear under more than one period.

Historical Periods:

- a. Colonial: 1607–1776
- b. Pre-Civil War: 1789-1861
- c. Civil War–Pre-Depression: 1861–1929
- d. Depression: 1929–1939
- e. World War II-FIRREA: 1940-1989
- f. 1989-present
- 1. United States note _____
- 2. commercial bank _____
- 3. Continental dollar _____
- 4. deregulation _____
- 5. Federal Reserve System _____
- 6. gold certificate _____
- 7. gold standard _____
- 8. inconvertible fiat money standard _____
- 9. legal tender _____
- 10. mutual savings bank _____
- **11.** national bank _____
- 12. NOW account _____
- 13. savings and loan association _____
- **14.** silver certificate _____
- **15.** specie _____
- 16. Treasury coin note _____

Reviewing the Facts

Section 1 (pages 285–290)

- 1. List the three functions of money.
- **2. Describe** five types of early money.
- **3.** List the four characteristics that give money its value.

Section 2 (pages 292–298)

- **4. Describe** the paper currencies used from the period of the American Revolution to the time of the Civil War.
- **5. Explain** the importance of the greenback during the Civil War.
- 6. Describe four disadvantages of a gold standard.
- 7. Evaluate modern money as a medium of exchange.

Section 3 (pages 300–305)

- 8. **Describe** the main difference between the Federal Reserve System and the National Banking System.
- **9. Explain** why many banks failed during the Great Depression.
- **10. Describe** two evolutionary trends in banking that emerged in the 1990s.

Thinking Critically

CONTENTS

- **1. Understanding Cause and Effect** How did high interest rates affect the S&L industry in the early 1980s?
- **2. Making Comparisons** Why were coins a more desirable form of money than paper during the colonial period? Create a table like the one below to help you organize your answer.

Kinds of Money	Advantages	Disadvantages
Coins		
Paper		

308 UNIT 3 MACROECONOMICS: INSTITUTIONS

Chapter 11 Assessment and Activities

Applying Economic Concepts

- Money Ask your friends, parents, and neighbors if they have any examples of old currency. If so, make a note of (a) the name of the currency (gold certificate, silver certificate, United States note, etc.);
 (b) the date on the currency; and (c) any mention of backing (silver certificates backed by silver dollars). Describe the role this money played in United States history.
- **2. Barter** Assume that you live in a barter society. Organize a list of 10 items that you use frequently, and then identify alternate goods of comparable worth that you would be willing to trade for them.

Math Practice

The table below provides information on the number and total assets of FDIC-insured commercial banks. Study the data and then design a graph to present this information.

Total Assets	Number of Institutions
Less than \$25 million	1,404
\$25 to \$50 million	2,107
\$50 to \$100 million	2,598
\$100 to \$300 million	2,937
\$300 to \$500 million	585
\$500 to \$1 billion	393
More than \$1 billion	537
Total Institutions	10,561

Thinking Like an Economist

Over time different financial institutions-state banks, national banks, S&Ls, MSBs, and credit unions-have lost some of their individual identities and have become more and more like each other. Is this an outcome that could have been predicted by an economist?

Technology Skill

Using the Internet The money supply of the United States, much like that of the major industrialized countries, is a managed money supply. The government or its designated agent tries to control the quantity, composition, and even the quality of the money supply. The two agencies that make United States currency are the Bureau of the Mint and the Bureau of Engraving and Printing. What are the roles of these two agencies? Use the Internet to find out about the operations of one of these two currency-making institutions.

To begin, log on to the Internet and access a World Wide Web search engine. Search by selecting one of the listed categories or by typing in the subject you want to find, such as *Bureau of the Mint* or *Bureau of Engraving and Printing*. Next, enter words like the following to focus your search: *currency, United States Mint*, and *counterfeiting*.

Gather your findings. Using the findings, create a pamphlet that could be distributed by either bureau to describe its role in the creation of American currency.

Building Skills

Developing Multimedia Presentations

Examine the list of topics below. Choose one of the topics and explain how you would use at least three types of media in a presentation to best teach the topic to your class.

- Trade in colonial America
- Origins of the dollar

CONTENTS

- Establishment of a national bank— Alexander Hamilton's view and Thomas Jefferson's view
- Currencies around the world
- Banking during the Civil War
- Roosevelt's bank holiday during the Great Depression

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

ECONOMICS WORKSHOP IN ACTION

Buying a Home

From the classroom of . . . Hal Kraynek Valley High School Santa Ana, California

The ability to buy a home is usually the result of proving to a lending institution that your salary is sufficient to make the monthly mortgage payments. Also, the lending institution will demand evidence that the amount you will pay for the house is a reasonable amount for the neighborhood, the size, and the condition of the house. Buying a home is usually a lengthy, complex process.

Select a partner to work with. Imagine that you and your partner have completed your education and successfully acquired jobs in your respective fields. You both have saved money all those years and are now ready to purchase a home. You will combine your salaries to buy this home.

Setting Up the Workshop

Prepare a report on the process you would follow to purchase a home. The report will be five pages long. This will include a cover sheet, three pages of text, and a bibliography on the fifth page. The outline of your report should be similar to the following:

- I. Title page, including title, date, student's name, and class
- II. Background
 - A. Education
 - B. Occupation
- III. Price of house
 - A. Payments
 - B. Taxes
- IV. Procedure followed and paperwork involved
- V. Location of home
- VI. Decisions
 - A. Reason for home location
 - B. Insurance choice
 - C. Payment plan
- VII. Bibliography, including names and titles of people who helped you, Internet Web sites, title companies, newspapers, banks, county tax collector, flyers, realtors, and so forth

The report will contain *at least* the following information:

REQUIRED:

- Occupation (both you and your partner)
- □ Salary (yours and partner's)
- □ Education (yours and partner's)
- Mortgage rates
- Loaning institute
- Taxes

- Loan amount
- Interest rate
- Down payment
- Type of loan
- Savings and loan companies, credit unions
- Number of years
- Procedure followed to acquire the loan

- Qualifications needed for loan
- Examples of paperwork involved in the application process
- Location of home

OPTIONAL:

- □ Other interesting information
- Visual aids
- □ Pamphlets/brochures

Procedures

STEP 1

Establish your education and professions. List any specialized training, and degrees or certificates achieved.

STEP 2

Describe your job, city or locale of employment, what company, if you are self-employed, and your salary.

STEP 3

Based on your salaries and where you work, decide where you want to live, and what price range of house you can afford.

STEP 4

Compile places you might go for information and help. This might include Internet sites, title companies, friends, family, newspapers, and all types of lending institutions, and real estate advertising sources in your area.

STEP 5

Research to find out what is involved with purchasing a house: what papers are needed; time spent in escrow; fees; charges; interest rates for 15-, 20-, and 30-year mortgages; payment rates; types of homeowners' insurance; notes; differences in buying a new home or an older home; repair expenditures; landscape costs; location of schools and shopping; and the type of neighborhood you are interested in.

STEP 6

Write and submit your report, following the criteria outlined above.

Summary Activity

Discuss with the other groups what problems you encountered and how you solved them.

UNIT 3 MACROECONOMICS: INSTITUTIONS **311**

CHAPTER 12

Financial Markets

MADR

Economics & You

Do you save your money? In Chapter 12, you will learn about the role that savings plays in the economy. To learn about investment strategies, view the Chapter 13 video lesson:

Saving and Investing



Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 12—Chapter Overviews* to preview chapter information.

Financial investors daily buy and sell the stock of thousands of corporations.

CLICK HERE

CONTENTS

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Savings and the Financial System

SECTION 1

Study Guide

Main Idea

The components of a financial system work together to transfer savings to investors.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below by identifying how saving and savings differ.



Key Terms

saving, savings, financial system, certificate of deposit, financial asset, financial intermediary, nonbank

Cover Story

The Golden Years

Many people think of Boston as the birthplace of democracy in our country. They may not realize that it is also the birthplace of the democratization of investing. It was there, 75 years ago,



The Spirit of '76

was there, 10 years ago, that three stock salesmen created the first mutual fund and opened up what was once an exclusive province of the affluent to just about everyone.

When the Massachusetts Investors Trust made its debut in March 1924, it had \$50,000 in assets and owned 45 stocks.... By pooling investments, the fund made shares in American companies accessible to a broader market ... (the) true innovation was allowing investors to redeem shares upon request, at market value of the underlying stocks.

—U.S. News & World Report, April 5, 1999

CONTENTS

financial institution, finance company, bill consolidation loan, premium, mutual fund, net asset value (NAV), pension, pension fund, real estate investment trust (REIT)

Objectives

After studying this section, you will be able to:

- **1. Explain** why saving is important for capital formation.
- 2. Explain how the financial system works to transfer funds from savers to borrowers.
- **3. Understand** the role of the major nondepository financial institutions in the financial system.

Applying Economic Concepts

Financial Assets Do you have a checking account, savings account, or government savings bond? If so, you have one or more financial assets.

For an economic system to grow, it must produce capital-the equipment, tools, and machinery used in the process of production. To produce capital, people must be willing to save so that productive resources are released for use elsewhere. To the economist, **saving** means the absence of spending, while **savings** refers to the dollars that become available when people abstain from consumption. After all, there are only two things you can do with your income-spend it or save it.

Competitive markets are remarkably innovative, as the example in the cover story illustrates. The creation of the mutual fund industry is just one of many examples describing how our financial system evolves to meet the needs of savers and investors.

Saving and Capital Formation

When people save, they make funds available. When businesses borrow these savings, they can produce new goods and services, build new plants and equipment, and create more jobs. Saving makes economic growth possible.

CHAPTER 12: FINANCIAL MARKETS 313

Suppose two entrepreneurs want to set up their own businesses. Lisa wants to open a pet shop, while Juanita's lifelong dream is to run a photography studio. How do they go about it? Lisa saves her income, keeping her money in a bank account. When she saves enough money to invest, Lisa can set up her pet shop.

Eager to start her business immediately, Juanita decides to borrow the money she needs from a bank. If other people have been saving some of their income, like Lisa, the bank should have the funds to lend her. If people have been spending all of their income, however, the bank might not be able to give Juanita the loan even if it wanted to.

For investment to take place, someone in the economy must save. An individual can save as well as invest, as Lisa did. Or, a person may invest using money others have saved, as Juanita did. When people save, they provide money for others to borrow and use, making investments possible.

Financial Assets and the Financial System

For people to use the savings of others, the economy must have a **financial system**–a network of savers, investors, and financial institutions that work together to transfer savings to investors.

Financial Assets

People can save in a number of ways. They can open a savings account. They can purchase a **certificate of deposit**—a receipt showing that an investor has made an interest-bearing loan to a bank—or a government or corporate bond. In each case, the savers obtain receipts for the funds they save.

Economists call these receipts **financial assets**-claims on the property and the income of the borrower. These receipts are assets because they are property that has value. They represent claims on the borrower because they specify the amount loaned and the terms at which the loan was made.

Financial Intermediaries

You have just read about two of the main parts of the financial system. The first is the funds that the saver transfers to the borrower. The second is the financial assets or receipts that certify that the loans were made. The other parts of the financial system, illustrated in **Figure 12.1**, are the savers, borrowers, and institutions that bring the surplus funds and financial assets together.

Many surplus funds are placed with **financial intermediaries**, financial institutions that lend the funds that savers provide to borrowers. Financial intermediaries include depository institutions, life insurance companies, pension funds, and other institutions that channel savings from savers to borrowers. These institutions are especially helpful to small savers who have only limited funds to invest.

The Circular Flow of Funds

Figure 12.1 shows the circular flow that takes place when funds are transferred from savers to borrowers. Savers can provide their funds directly to the borrower or indirectly through the many financial intermediaries in the economy such as banks and credit unions. The borrowers then generate the financial assets, which return to the lender.

Any sector of the economy can supply savings, but households and businesses are the most important. As shown in **Figure 12.1**, savers provide some funds directly to borrowers, as when households or businesses purchase bonds directly from the government or businesses.

Any sector of the economy can borrow, but governments and businesses are the largest borrowers. If a corporation borrows directly from savers, or indirectly from savers through financial intermediaries, the corporation will issue a bond or other financial asset to the lender. Likewise, when the government borrows, it issues government bonds or other financial assets to the lender.

As a result, almost everyone participates in, and benefits from, the financial system. The smooth flow of funds through the system helps ensure that savers will have an outlet for their savings. Borrowers, in turn, will have a source of financial capital.



ECONOMICS At A GLANCE

Figure 12.1

Overview of the Financial System Surplus **Financial Intermediaries** Funds **Commercial Banks** Savings & Loan Associations Savings Banks Savers **Borrowers Mutual Savings Banks** Credit Unions Households, Businesses Governments, Businesses Life Insurance Companies Mutual Funds Pension Funds Real Estate Investment Trusts **Finance Companies** Financial Assets Using Charts Financial intermediaries help channel surplus funds from savers to borrowers, who

put the money to work. What do lenders receive in return for their funds?

Nonbank Financial Intermediaries

Savings banks, credit unions, commercial banks, and savings associations obtain funds when their customers or members make regular deposits. Another important group of financial intermediaries includes **nonbank financial institutions** nondepository institutions that channel savings to borrowers. Finance companies, life insurance companies, pension funds, and real estate investment trusts are examples of nonbank financial institutions.

Finance Companies

A **finance company** is a firm that specializes in making loans directly to consumers and in buying installment contracts from merchants who sell goods on credit. Many merchants, for example, cannot afford to wait years for their customers to pay off high-cost items on an installment plan. Instead, the merchant sells the customer's installment contract to a finance company for a lump sum. This allows the merchant to advertise instant credit or easy terms without actually carrying the loan full term, absorbing losses for an unpaid account, or taking customers to court if they do not pay.

Some finance companies make loans directly to consumers. These companies generally check a consumer's credit rating and will make a loan only if the individual qualifies. Because they make some risky loans, and because they pay more for the funds they borrow, finance companies charge more than commercial banks for loans. Many consumer finance companies offer **bill consolidation loans.** This is a loan consumers use to pay off other bills.

Life Insurance Companies

Another financial institution that does not get its funds through deposits is the life insurance company. Although its primary purpose is to provide financial protection for survivors of the insured, it also collects a great deal of cash.

The head of a family, for example, purchases a life insurance policy to leave money for a spouse and children in case of his or her death. The **premium** is



the price the insured pays for this policy and is usually paid monthly, quarterly, or annually for the length of the protection. Because insurance companies collect cash on a regular basis, they often lend surplus funds to others.

Mutual Funds

A **mutual fund** is a company that sells stock in itself to individual investors and then invests the money it receives in stocks and bonds issued by other corporations. Mutual fund stockholders receive dividends earned from the mutual fund's investments. Stockholders can also sell their mutual fund shares for a profit, just like other stocks.

Mutual funds allow people to play the market without risking all they have in one or a few companies. The large size of the typical mutual fund makes it possible to hire a staff of experts to analyze the securities market before buying and selling securities. Their large size also allows them to buy many different stocks and bonds.

The **net asset value (NAV)**—the net value of the mutual fund divided by the number of shares issued by the mutual fund—is the market value of a mutual fund share.

Pension Funds

Another nondepository financial institution is the pension fund. A **pension** is a regular payment intended to provide income security to someone who has worked a certain number of years, reached a certain age, or suffered a certain kind of injury. A **pension fund** is a fund set up to collect income and disburse payments to those persons eligible for retirement, old-age, or disability benefits.

In the case of private pension funds, employers regularly withhold a percentage of workers' salaries to deposit in the fund. During the 30- to 40-year lag between the time the savings are deposited and the time the workers generally use them, the money is usually invested in corporate stocks and bonds. Government pension funds are similar to private ones in that the government makes regular contributions to the fund that will pay benefits later.

Real Estate Investment Trusts

Still another nonbank financial institution is the **real estate investment trust (REIT)**-a company organized primarily to make loans to construction companies that build homes. REITs help provide billions annually for home construction.

Section 1 Assessment

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer on page 313, describe the difference between saving and savings.
- 2. Key Terms Define saving, savings, financial system, certificate of deposit, financial asset, financial intermediary, nonbank financial institution, finance company, bill consolidation loan, premium, mutual fund, net asset value (NAV), pension, pension fund, real estate investment trust (REIT).

Reviewing Objectives

- **3. Explain** why saving is required for capital formation.
- 4. **Describe** how the financial system works to transfer funds from savers to borrowers.

- **5. Explain** the role of the major nondepository financial institutions in the financial system.
- 6. Financial Assets An I.O.U. that you draft and give to a friend in payment of a debt is an example of a financial asset. Explain why this is so.

Critical Thinking

- 7. Understanding Cause and Effect What is necessary before investment can take place?
- 8. Making Generalizations Why might an individual choose to borrow money from a finance company that charges higher interest rates than commercial banks do?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Managing Money: Helen Young Hayes (1962-)

Profiles

IN

Economics

Helen Hayes is the type of person people trust. In fact, people have entrusted her with more than \$23 *billion* of their money.

Hayes is one of the most successful mutual fund managers in the world.

Picking the right stocks, especially foreign ones, takes research. But what sets Hayes apart, and is a key to her success, is her uncanny ability to read people. When she meets with corporate executives, for example, she pays a great deal of attention to body language, which she maintains can reveal as much, or more, about a company than what the executive says.

In her spare time, Hayes trains for and competes in triathlons grueling races that combine swimming, bicycling, and running. She claims she's not very good, and that she only competes against herself. But Hayes's gusto for athletics seems a clear reflection of the zeal she brings to bear in business.

Building a Business: Edward T. Lewis

As chairman and CEO of Essence Communications, Inc. (ECI), Edward T. Lewis heads one of the largest African American businesses in the United States. His struggle to make *Essence* magazine a success shows determination and entrepreneurial skill.

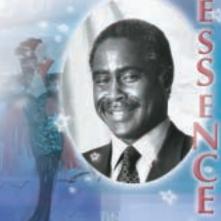
CONTENTS

In the late 1960s, Lewis, then a financial analyst for a bank, attended a conference held to encourage initiative in African American capitalism. One idea captured him: that someone could publish a magazine targeted at African American women.

Lewis launched the first issue of *Essence* in May 1970. The stylish magazine, which featured full-page color photos of African American models and cutting-edge articles, became a great success.

ECI is also a major investor in Amistad Press, a respected book publishing company that focuses on minority authors and titles. Essence Art Reproductions markets reproductions of fine art created by African American artists.

Lewis's success is the result of the age-old formula of good ideas combined with hard work. His legacy is ECI.



Examining the Profiles

- 1. Making Comparisons What similarities and differences do you see in Hayes's and Lewis's careers?
- 2. For Further Research Review several issues of *Essence* magazine. Write an analysis of the magazine's editorial policy.



Investment Strategies and Financial Assets

SECTION

Study Guide

Main Idea

To invest wisely, investors must identify their goals and analyze the risk and return involved.

Reading Strategy

Graphic Organizer As you read the section, identify at least four financial assets.



Key Terms

risk, 401(k) plan, coupon, maturity, par value, current yield, municipal bond, tax-exempt, savings bond, Treasury note, Treasury bond, Treasury bill, Individual Retirement Account (IRA), Roth IRA, capital market, money market, primary market, secondary market

Objectives

After studying this section, you will be able to:

- 1. Identify four important investment considerations.
- 2. Describe the three characteristics of bonds.
- 3. Describe the characteristics of major financial assets.
- 4. Understand four views of markets for financial assets.

Applying Economic Concepts

Risk-Return Relationship Riskier projects must offer higher returns to be attractive.

Cover Story

Popular Plan Has Attracted \$1 Trillion

In just 15 years, 401(k) has been transformed from an obscure section of the tax code into corporate America's most popular retirement benefit.

Today, 25 million people have about \$1 trillion invested in 401(k) plans, triggering a



The 401(k) provides a nest egg for millions.

revolution in retirement planning that's made money managers out of workers from the factory floor to the corner office.

But with 401(k)s now covering as many employees as traditional pensions, an . . . analysis of the 401(k)s at the nation's largest employers finds dramatic disparities in the plans' generosity.

For individuals, the difference could easily amount to hundreds of thousands of dollars. For society, they could further widen the gap between rich and poor.

—USA Today, April 23, 1999

Before you invest in a financial asset, it helps to have a basic understanding of investment considerations. Possessing this information will help you make your own investment goals and decide whether a plan like the 401(k) is right for you.

Basic Investment Considerations

It is important to consider several factors when you invest in financial assets. The first concerns the relationship between risk and return. The second has to do with the investor's personal investment goals. The third deals with avoiding some types of investments, and the last deals with the consistency of investing.

The Risk-Return Relationship

CONTENTS

One of the most important relationships in the market is the relationship between risk and return. **Risk** is a situation in which the outcome is not certain, but probabilities for each possible outcome can be estimated. Investors realize that



financial assets are risky. Assets such as notes, bills, and bonds may go up or down in price, or the agency that issued the asset may even fail to redeem it, leaving the lender with a loss. As a result, investors demand a higher return to compensate for higher risk. This relationship between risk and return is illustrated in **Figure 12.2**, which shows that riskier assets offer higher returns to attract investors.

As an investor, your first consideration should be the level of risk that you can tolerate. For example, if someone offers you a risky deal that doubles your money, it may be better to focus on the chances of getting your money back rather than on the size of the return. If you are uncomfortable with high levels of risk, then consider another investment.

Investment Objectives

Another factor to consider is the reason for investing. If your goal is to save for retirement, you might want to purchase assets that simply appreciate in value rather than generate current income. If your purpose is to accumulate reserves to fund a vacation or to cover living expenses during periods of unemployment, a strategy that focuses on the accumulation of assets that are highly liquid, or easily converted into cash, might be better.

The source of income used for investment may help determine which assets are purchased. If you receive a steady salary and almost no other income, a payroll deduction plan that puts money into a special retirement fund like a 401(k) or government bonds might be best. If you receive bonuses, royalties, or other occasional payments, corporate bonds or some other large-denomination financial asset might be preferable.

In the end, each investor must consider his or her own circumstances and personal investment goals. Investors have a large number of financial assets, equities, and other investments from which to choose. The investor's knowledge of his or her own needs is important in making these decisions.

Simplicity

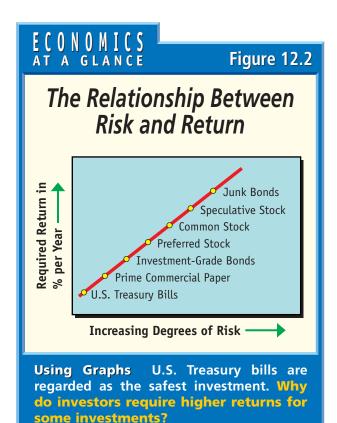
Most analysts advise investors to stay with what they know. Thousands of investments are available, and many are complicated. Although you do not have to understand them all to be a good investor, knowing a few fundamentals can help you make good choices.

One rule that many investors follow is this: If an investment seems too complicated, then ignore it and invest in something else. Another often-cited rule is that any investment that seems too good to be true probably is. A few investors do get lucky, but most build wealth because they invest regularly, and they avoid the investments that seem too far out of the ordinary.

Consistency

Most successful investors invest consistently over long periods of time. In many cases, the amount invested is not as important as investing on a regular basis.

Figure 12.3 shows how a small deposit of \$10 per month would grow over a 5- to 30-year period at various interest rates. The balance in the account accumulates fairly quickly, even at modest interest rates. Because \$10 is a small amount, imagine how



the account would grow if the deposit was for \$25, \$50, or even \$100 a month! Many investment advisers tell people to save something every month, even if it is only a small sum.

401(k) Plans

A program that has become increasingly popular among investors is the 401(k) plan-a tax-deferred investment and savings plan that acts as a personal pension fund for employees. To contribute to the plan, employees authorize payroll deductions, which are invested in mutual funds or other investments approved by their companies. Contributing to a plan lowers your taxable income because you don't have to pay income taxes on the money you contribute until vou withdraw it. An added benefit of a 401(k) plan is that more than 80 percent of employers match an employee's contributions, by typically 25 percent to 100 percent. This explains why individual plans vary widely from company to company, as noted in the cover story.

Returns on a 401(k) are especially high when the employer provides matching funds. For example, if

<u>E C O N O M I C S</u>

AT A GLANCE

your employer matches your contribution at 50 cents on the dollar, you have an immediate 50 percent return on the investment-even before the funds are invested. Figure 12.4 illustrates that an annual contribution of \$2,000 with a 25 percent employer match can provide a substantial retirement fund in 30 years.

The 401(k) is popular because it provides a simple, consistent, and relatively safe way for employees to save-and you can take the 401(k) with you if you change jobs. In addition, you can borrow against the money before you retire at a substantially reduced rate. You will, however, have to pay taxes on the earnings when you withdraw the money at retirement.

Bonds as Financial Assets

When the government or firms need to borrow funds for long periods, they often issue bonds. Bonds are long-term obligations that pay a stated rate of interest for a specified number of years.

Figure 12.3

The Power of Compound Interest						
Annual Interest (in percent)	5	10	Value at E 15	ind of Year 20	25	30
0	\$600	\$1,200	\$1,800	\$2,000	\$2,500	\$3,600
2	\$630	\$1,327	\$2,097	\$2,948	\$3,888	\$4,927
4	\$663	\$1,472	\$2,461	\$3,668	\$5,141	\$6,940
6	\$698	\$1,639	\$2,908	\$4,620	\$6,930	\$10,045
8	\$735	\$1,829	\$3,460	\$5,890	\$9,510	\$14,904
10	\$774	\$2,048	\$4,145	\$7,594	\$13,268	\$22,605
12	\$817	\$2,300	\$4,996	\$9,893	\$18,788	\$34,950

Using Tables This table shows the balance in an account if monthly deposits of \$10 were compounded monthly. How much interest is earned after the first 10 years at 6 percent?

Bond Components

A bond has three main components: the **coupon**, or the stated interest on the debt; the **maturity**, or the life of the bond; and the **par value**—the principal or the total amount initially borrowed that must be repaid to the lender at maturity.

Suppose, for example, a corporation sells a 6 percent, 20-year, \$1,000 par value bond that pays interest semiannually. The coupon payment to the holder is \$30 semiannually (.06 times \$1,000, divided by 2). When the bond reaches maturity after 20 years, the company retires the debt by paying the holder the par value of \$1,000.

Bond Prices

The investor views the bond as a financial asset that will pay \$30 twice a year for 20 years, plus a final par value payment of \$1,000. Investors can offer \$950, \$1,000, \$1,100, or any other amount for this future payment stream. Investors consider changes in future interest rates, the risk that the company will default, and other factors before they decide what to offer. Supply and demand will then establish the final price of the bonds.

Bond Yields

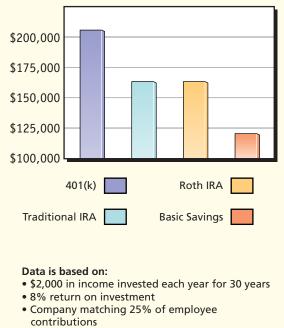
In order to compare bonds, investors usually compute the bond's **current yield**, the annual interest divided by the purchase price. If an investor paid \$950 for the bond described above, the current yield would be \$60 divided by \$950, or 6.32 percent. If the investor paid \$1,100 for the bond, the current yield would be \$60 divided by \$1,100, or 5.45 percent. Although it may appear as if the issuer fixes the return on a bond when the bond is first issued, the interest received and the price paid determine the actual yield on the bond.

Because the credit-worthiness, or financial health, of corporations and governments differ, all 6 percent, 20-year, \$1,000 bonds will not cost the same. Bonds are not insured, and there are no guarantees that the issuer will be around in 20 years to redeem the bond. Therefore, investors will pay more for bonds issued by an agency with an impeccable credit rating. Investors will pay less for a similar bond if it is issued by a corporation with a low credit rating.

ECONOMICS AT A GLANCE

How Much Will You Have at Retirement?

Figure 12.4



• 28% income tax; 20% capital gains tax (paid yearly for basic savings)

Source: Quicken.com, 1999

Using Graphs Retirement investment plans provide various returns. How much more would a traditional IRA earn over a basic savings plan?

Bond Ratings

Fortunately, investors have a way to check the quality of bonds. Two major corporations, Standard & Poor's and Moody's, publish bond ratings. They rate bonds on a number of factors, including the basic financial health of the issuer, the ability to make the future coupon and principal payments, and the issuer's past credit history.

The bond ratings, shown in **Figure 12.5**, use letters scaled from AAA, which represents the highest investment grade, to D, which generally stands for



ECONOMICS At a glance

Figure 12.5

Dona Classifications					
Standard & Poor's		Moody's			
Highest Investment Grade	AAA	Aaa	Best Quality		
High Grade	AA	Aa	High Quality		
Upper Medium Grade	А	А	Upper Medium Grade		
Medium Grade	BBB	Baa	Medium Grade		
Lower Medium Grade	BB	Ba	Possesses Speculative Elements		
Speculative	В	B Generally Not Desirable			
Vulnerable to Default	CCC	Caa Poor, Possibly in Default			
Subordinated to Other Debt Rated CCC	CC	Са	Highly Speculative, Often in Default		
Subordinated to CC Debt	С	C Income Bonds Not Paying Income			
Bond in Default	D	D	Interest and Principal Payments in Default		
Sources: Standard & Poor's Corporation, Moody's					

Bond Classifications

Using Tables Standard & Poor's Corporation and Moody's publish bond ratings. Junk bonds, those with ratings of BB or Ba and lower, are generally the riskiest types of bonds. How do bond ratings affect the price of bonds?

default. If a bond is in default, the issuer has not kept up with the interest or the par value payments. These ratings are widely publicized, and investors can find the rating of any bond they plan to purchase.

Bonds with high ratings sell at higher prices than do bonds with lower ratings. A 6 percent, 20-year, \$1,000 par value bond with an AAA-grade rating may sell for \$1,100 and have a current yield of 5.45 percent. Another 6 percent, 20-year, \$1,000 par value bond issued by a different company may have a BBB rating, and may therefore only sell for \$950 because of the higher risk. The second bond, however, has a higher current yield of 6.32 percent. This points out the basic nature of the risk-return relationship—riskier investments require higher returns to offset the risk.

Financial Assets and Their Characteristics

The modern investor has a wide range of financial assets from which to choose. These include certificates of deposit, bonds, treasury notes and bills, and individual retirement accounts. They vary in cost, maturity, and risk.

Certificates of Deposit

Certificates of deposit (CDs) are one of the most common forms of investments available. Many people think of them as just another type of account with a depository institution, but they are really loans investors make to financial institutions. Because banks and others count on the use of these funds for a certain time period, they usually impose penalties when people try to cash in their CDs early.

CDs are attractive to small investors because they can cost as little as \$100. Investors can also select the length of maturity, giving them an opportunity to tailor the expiration date to future expenditures such as college tuition, a vacation, or some other expense.

Finally, CDs issued by commercial banks, savings banks, and savings associations are included in the \$100,000 FDIC insurance limit. The National Credit Union Association insures most CDs issued by credit unions.

Corporate Bonds

Corporate bonds are an important source of corporate funds. Some individual corporate bonds have par values as low as \$1,000, but par values of



\$10,000 are more common. The actual prices of the bonds are usually different from the par values because supply and demand for the bonds determine the price.

Investors usually decide on the highest level of risk they are willing to accept, and then they try to find a bond that has the best current yield. "Junk" bonds—exceptionally risky bonds with a Standard & Poor's rating of BB or lower, or a Moody's rating of Ba or lower—carry a high rate of return as compensation for the possibility of default.

Investors usually purchase corporate bonds as long-term investments, but they can also be liquidated, or quickly sold, if the investor needs cash for other purposes. The Internal Revenue Service considers the interest, or coupon, payments on corporate bonds as taxable income, a fact investors must consider when they invest in bonds.

Municipal Bonds

Municipal bonds (or "munis") are bonds issued by state and local governments. States issue bonds to finance highways, state buildings, and some public works. Cities issue bonds to finance baseball parks and football stadiums or to finance libraries, parks, and other civic improvements.

Municipal bonds are attractive investments for several reasons. First, they are generally regarded as safe because state and local governments do not go out of business. Because governments have the power to tax, it is generally presumed that they will be able to pay interest and principal in the future.

More importantly, municipal bonds are generally **tax-exempt**, meaning that the federal government does not tax the interest paid to investors. In some cases, the states issuing the bonds also exempt the interest payments from state taxes, which makes them very attractive to investors. The tax-exempt feature also allows the governmental agencies to pay a lower rate of interest on the bonds, thereby lowering their cost of borrowing.

Government Savings Bonds

The federal government generates financial assets when it sells savings bonds. Savings bonds are low-denomination, nontransferable bonds



INVESTING GLOBALLY

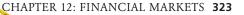
Is it risky to invest in markets around the world? Some economists argue that investing a portion of your money in overseas markets is safe and profitable.

Many people think that there are too many uncertainties associated with investing in overseas markets. Governments can be unstable and economic information about the region may be sketchy. Countries can devalue their currencies or maintain poor accounting standards.

Economists, however, believe that investing a portion of one's money in Latin American, Asian, or European companies is a wise strategy, and many mutual funds today exist for just that purpose. Even though the United States market has been prosperous, shifting some assets overseas can serve as a safety net if the United States market plunges. Stock markets around the world generally do not experience simultaneous highs and lows, so maintaining a level of profit making can be steady. Many overseas companies are restructuring to become more efficient, creating healthy investment opportunities for American investors.

Critical Thinking

- Analyzing Information What are the arguments against investing in overseas markets?
- 2. Making Generalizations Why is it important to diversify investments throughout different regions rather than in investing in a single region?



issued by the United States government, usually through payroll-savings plans.

These bonds are usually available in denominations ranging from \$50 to \$10,000, and they are purchased at a discount from their redemption amount. For example, a new \$50 savings bond may be obtained today for \$25, but it could take up to 18 years before it could be redeemed for the full \$50, depending on the interest rate. The government pays interest on these bonds, but it builds the interest into the redemption price rather than sending checks to millions of investors on a regular basis.

Savings bonds are attractive because they are easy to obtain and there is virtually no risk of default. They cannot be sold to someone else if the investor needs cash, but they can be redeemed early, with some loss of interest, if the investor must raise cash for other purposes. Most investors tend to hold long-term savings bonds, treating them as a form of automatic savings.



Stockbroker

Do you enjoy scouting financial trends and doing research? Then a career as a stockbroker might be the right one for you.

The Work

The stockbroker's duties include handling individual investment accounts and advising customers on the purchase or sale of securities. They must supply the latest price guotations on

stocks and keep informed about the financial activities of corporations issuing stock. The ability to act quickly is helpful in building and keeping a strong customer base.

Qualifications

Stockbrokers are college graduates with sales ability and good communication skills. Many hold degrees in business administration, with a specialization in finance.

Treasury Notes and Bonds

When the federal government borrows funds for periods longer than one year, it issues Treasury notes and bonds. **Treasury notes** are United States government obligations with maturities of two to 10 years, while **Treasury bonds** have maturities ranging from more than 10 to as many as 30 years. The only collateral that secures both is the faith and credit of the United States government.

Treasury notes and bonds come in denominations of \$5,000 for maturities of two to three years, and denominations of \$1,000 for maturities longer than four years. The government also keeps computerized records of its debt holders so that it can make periodic interest payments to those individuals.

Although these financial assets have no collateral or backing, they are popular because they are generally regarded as the safest of all financial assets. Due to the trade-off between risk and return, however, these assets also have the lowest returns of all financial assets.

Treasury Bills

CONTENTS

Federal government borrowing generates other financial assets known as **Treasury bills.** A Treasury bill, also known as a T-bill, is a short-term obligation with a maturity of 13, 26, or 52 weeks and a minimum denomination of \$10,000.

T-bills do not pay interest directly, but instead are sold on a discount basis, much like government savings bonds. For example, an investor may pay the auction price of \$9,300 for a 52-week bill that matures at \$10,000. The \$700 difference between the amount paid and the amount received is the investor's return. The investor is receiving \$700 on a \$9,300 investment, for a return of \$700 divided by \$9,300, or 7.5 percent.

Individual Retirement Accounts

Individual Retirement Accounts (IRAs) are long-term, tax-sheltered time deposits that an employee can set up as part of a retirement plan. If the worker's spouse does not work outside the home, up to \$2,000 per year can be deposited in a separate account for each spouse.

STANDARD&POOR'SINFOBYTE

Treasury Bonds A Treasury bond refers to a Treasury security with a maturity greater than 10 years. The only difference between a Treasury bond and a Treasury note is the longer maturity of the bond. Coupon interest on a Treasury bond is paid semiannually. Treasury bond issuance was recently increased from two auctions per year to three, settling on the 15th of February, August, and November. The 30-year bond is considered the "benchmark" bond in determining interest rate trends.

The worker deducts this deposit from his or her taxable income at the end of the year, thereby sheltering the \$2,000 from income taxes. Taxes on the interest and the principal will eventually have to be paid, but it gives the worker an incentive to save today, postponing the taxes until the worker is retired and in a lower tax bracket. IRAs are not transferable, and penalties exist if they are liquidated early.

Figure 12.4 on page 321 also shows a **Roth IRA**—an IRA whose contributions are made after taxes so that no taxes are taken out at maturity. This type of IRA may work well for someone who plans to retire in a high tax bracket.

Markets for Financial Assets

Investors often refer to markets according to the characteristics of the financial assets traded in them. These markets are not really separate entities, and many overlap to a considerable degree.

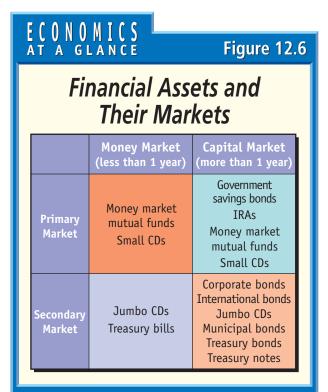
Capital Markets

When investors speak of the **capital market**, they mean a market where money is loaned for more than one year. Long-term CDs and corporate and government bonds that take more than a year to mature belong in this category. Capital market assets are shown in the right-hand column of **Figure 12.6**.

Money Markets

When investors speak of the **money market**, they mean a market where money is loaned for periods of less than one year. The financial assets that belong to the money market are shown in the left-hand column of **Figure 12.6**. Note that a person who owns a CD with a maturity of one year or less is involved in the money market. If the CD has a maturity of more than one year, the person is involved in the capital market as a supplier of funds.

Money market mutual funds are issued by stockbrokers and other institutions. These firms pool the deposits by their customers to purchase stocks or bonds. Mutual funds usually pay slightly higher interest rates than banks.



Using Charts If the length of maturity is important, the market is sometimes called a money or capital market. If the ability to sell the asset to someone other than the original issuer is important, the market may be described as being a primary or secondary market. Why do some financial assets, like CDs, appear in more than one market?

Primary Markets

Another way to view financial markets is to focus on the liquidity of a newly created financial asset. One market for financial assets is the **primary market**, a market where only the original issuer can repurchase or redeem a financial asset. Government savings bonds and IRAs are in this market because they are both nontransferable. Small CDs are in the primary market because investors tend to cash them in early, rather than try to sell them to someone else, if they need cash.

Secondary Markets

If a financial asset can be sold to someone other than the original issuer it becomes part of the secondary market. The **secondary market** is a market in which existing financial assets can be resold to new owners.

The major significance of the secondary market is the liquidity it provides to investors. If a strong secondary market exists for a financial asset, investors know that, other than the fees paid to handle the transaction, the assets can be liquidated fairly quickly and without penalty.

Investment



Markets for Financial Assets Investing always includes some risk. What is the difference between a capital market and a money market?

Section 2 Assessment

Checking for Understanding

- 1. Main Idea What rules do many investors follow in regard to investment goals?
- 2. Key Terms Define risk, 401(k) plan, coupon, maturity, par value, current yield, municipal bond, tax-exempt, savings bond, Treasury note, Treasury bond, Treasury bill, Individual Retirement Account (IRA), Roth IRA, capital market, money market, primary market, secondary market.
- 3. List four important investment considerations.
- Identify the three main characteristics of bonds.
- 5. **Describe** the characteristics of major financial assets.

6. Differentiate between the four markets of financial assets.

Applying Economic Concepts

 Risk-Return Relationship If you had money to invest, in which financial asset(s), if any, would you choose to invest? Explain how you arrived at your answer.

Critical Thinking

- 8. Making Generalizations Review the four basic investment considerations. Which do you think is most important? Explain your answer.
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

AUGUST 10, 1998

What expectations might significantly alter current spending and saving? Economists develop models that explain the saving habits of people at various levels of income. A new model has been proposed that suggests why the wealthy save their money.

A Penny Earned Is a Penny Saved

It is possible to have more money than you need. As billionaire H.L. Hunt said in the '70's: "For practical purposes, someone who has \$200,000 a year is as well off as I am." So why do the rich continue to pile up wealth?

High-income households save more than either of two standard economic models would predict, says Johns Hopkins University economist Christopher D. Carroll. Contrary to the "life-cycle" model, the rich save far more than they need to support themselves in old age.

And the "dynastic" model, which suggests that the rich want to leave large bequests to their children, doesn't work either. Carroll cites a study of Internal Revenue Service data showing that the childless wealthy don't spend down assets more rapidly than those who leave bequests to their children.

Carroll suggests a new explanation: a "capitalist spirit" model, in which the rich value wealth for its own sake. Even unspent wealth can bring

Newsclip



Wealth is an accumulation of value. Spending wealth on luxuries, like expensive cars, is an option. So, too, are saving and investing.

economic services-including political power. Or, as Howard Hughes once put it, "money is the measuring rod of power."

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Examining the Newsclip

ONTENTS

- 1. Analyzing Information Describe the two economic models developed to explain why high-income house-holds save money.
- 2. Summarizing Information How does Christopher Carroll explain the saving pattern of high-income households?
- **3. Making Generalizations** Explain why you agree or disagree with the following statement: The more wealth households have accumulated, the weaker the incentive to save in order to accumulate additional wealth.

CHAPTER 12: FINANCIAL MARKETS 327

Investing in Equities, Futures, and Options

SECTION

Study Guide

Main Idea

Equities, or stocks, represent ownership of a corporation.

Reading Strategy Graphic Organizer

As you read the section, list three different organized stock exchanges.



Key Terms

equities, Efficient Market Hypothesis (EMH), portfolio diversification, stockbroker, securities exchange, seat, over-the-counter market (OTC), Dow-Jones Industrial

Average (DJIA), Standard & Poor's 500 (S&P 500), bull market, bear market, spot market, futures contract, futures market, option, call option, put option, options market

Objectives

After studying this section, you will be able to:

- 1. Describe the major stock exchanges.
- 2. Explain how stock market performance is measured.

Applying Economic Concepts

Futures Exchanges Have you ever negotiated to receive your allowance early, or asked to be paid right away for a service to be completed later? Read to find out how this corresponds to a futures market.

Cover Story

Rich Going Online to Research and Trade Stocks

Two-thirds of the most affluent Americans use computers to research investments, while almost a third trade online, a survey reveals today.



Online market analysis

The findings will inten-

sify concern of the future of traditional stockbrokers in the U.S. following last week's announcement that Merrill Lynch, the largest U.S. retail broker, was launching an online trading service.

These people represent the most lucrative business for private banks and for full-service brokers such as Merrill Lynch and PaineWebber.

"We were surprised by the extent to which the

affluent really have embraced technology.... People are changing their habits and the way they conduct commerce ...," [claimed an analyst].

-The Financial Times, June 10, 1999

n addition to financial assets, investors may buy equities. These are stocks that represent ownership shares in corporations. The markets for equities are reasonably competitive because there are a large number of buyers and sellers, and investors possess reasonably good information.

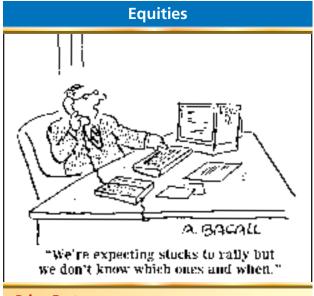
Advances in technology, as noted in the cover story, make this process even more competitive. A majority of investors now use the Internet to acquire the information they need to make their decisions.

Market Efficiency

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Many things influence the price of equities. Some companies may have relatively few outstanding shares to be traded, while others have a large number. Some companies are profitable; others are not. Expectations also affect stock prices. For example, two companies may be equal in all respects, but one may have far better prospects for growth.

As a result, stock prices can vary considerably from one company to the next. The difficulty



Price Factors Equities entitle the buyer to a certain part of the future profits and assets of the corporation selling the stock. *What factors influence the price of equities?*

facing the investor, then, is to decide which to buy-and which to avoid. Fortunately, the answer is simpler than you might imagine.

The **Efficient Market Hypothesis (EMH)**—the argument that stocks are always priced about right and that bargains are hard to find because they are followed closely by so many investors—is often used to help explain the pricing of equities. A leading expert on the topic explains how this might happen:

Essentially, the EMH states that there are some 100,000 or so full-time, highly trained, professional analysts and traders operating in the market and following some 3,000 major stocks. If each analyst followed only 30 stocks, there would still be 1,000 analysts following each stock. Further, these analysts work for organizations such as Merrill Lynch and Prudential Insurance, which have billions of dollars available with which to take advantage of bargains. As new information about a stock becomes available, these 1,000 analysts all receive and evaluate it at approximately the same time, so the price of the stock adjusts almost immediately to reflect new developments.

> -from Eugene F. Brigham's Fundamentals of Financial Management

> > ONTENTS

One implication for the investor is that if all stocks are priced about right, it does not matter which ones you purchase. You might be lucky and pick a stock about to go up, or you might get unlucky and pick a stock about to go down. Because of this, **portfolio diversification**—the practice of holding a large number of different stocks so that increases in some can offset unexpected declines in others—is a popular strategy.

There are different ways to purchase equities. Opening an Internet account with a discount brokerage firm is one means. The investor can then buy, sell, and monitor his or her stock portfolio from a personal computer. Or, the investor may enlist the assistance of a **stockbroker**–a person who buys or sells equities for clients. The broker arranges to have the stocks purchased at a stock exchange, or supplies the securities from an inventory, or buys them from some other broker.

Organized Stock Exchanges

A number of organized **securities exchanges** exist—places where buyers and sellers meet to trade securities. An organized exchange gets its name from the way it conducts business. Members pay a fee to join, and trades can only take place on the floor of the exchange.

The New York Stock Exchange

The oldest, largest, and most prestigious of the organized stock exchanges in the United States is the New York Stock Exchange (NYSE), located on Wall Street in New York City. This exchange, like most other organized exchanges, has certain rules for both its members and the corporations listed on the exchange.



and Practices Web site at <u>epp.glencoe.com</u> and click on **Chapter 12—Student Web Activities** for an activity on the New York Stock Exchange.



ECONOMICS At a glance

Figure 12.7

The New York Stock Exchange

Hi I 12 1/8 8 1	Lo Sto		Sym	Div								Chq
IL -/ - 0		ity0ne	EQY	1.04	% 10.4	PE 9	100s 283	Hi 10 3/8	Lo 10	Close 10	_	1/4
56 1/2 37	•	eeLaudr A	EL	.20	.4	45	4612	48	46	48	+	1
		ntr0il	FT0		•••	22	80	6 7/8	6 1/2	6	-	3/16
(37 16	5 <u>3/8</u> Has	sbro	HAS	.24	(1.5)	(12)	33793	(16 7/16	15 13/16	16)	-	(1/2)

Reading the Financial Page Figure 12.7 shows examples of stocks traded on the New York Stock Exchange. The price of a share of stock generally goes up and down throughout the day as the conditions of supply and demand change. At the end of the business day, each stock has a closing price. Of the stocks shown, which made the biggest gain on this particular day?

The NYSE has about 1,400 **seats**, or memberships, that allow access to the trading floor. Large brokerage companies, such as Merrill Lynch, may own as many as 20 seats at any given time. The members may pay several million dollars for each seat. Members have the right to elect their own directors and vote on the rules and regulations that govern the exchange.

The NYSE lists stocks from more than 3,000 companies. The firms must meet stringent requirements related to profitability and size, which virtually guarantee that the companies will be among the largest, most profitable publicly held companies. Figure 12.7 shows how prices are listed on the NYSE.

During the last 12 months, Hasbro sold for as much as \$37 and as little as \$16.37 a share. Its annual dividend (Div) is \$.24, which is paid in four equal installments. The yield (Yld) is the dividend divided by the closing price. The PE, or price-earnings ratio, is a stock's price divided by annual earnings of each share of common stock outstanding. Hasbro closed at \$.50 lower than the day before, as indicated by -1/2 under Net Change (Net Chg).

The American Stock Exchange

Another prestigious national exchange is the American Stock Exchange (AMEX), which is also located in New York City. It has approximately 1,000 listed stocks. For many years, the AMEX was the second largest organized exchange in the country behind the NYSE. Its growth then slowed, and some of the regional exchanges overtook the AMEX. Overall, the companies represented on the AMEX tend to be smaller and more speculative than those listed on the NYSE.

Regional Stock Exchanges

The regional exchanges include the Chicago, Pacific, Philadelphia, Boston, and Memphis exchanges, along with some smaller exchanges in other cities. Many of these exchanges originally listed corporations that were either too small or too new to be listed on the NYSE or the AMEX. Today, however, many stocks are listed on both the NYSE and a regional exchange. The regional stock exchanges also meet the needs of the smaller and middle-sized corporations in their regions.

Global Stock Exchanges

CONTENTS

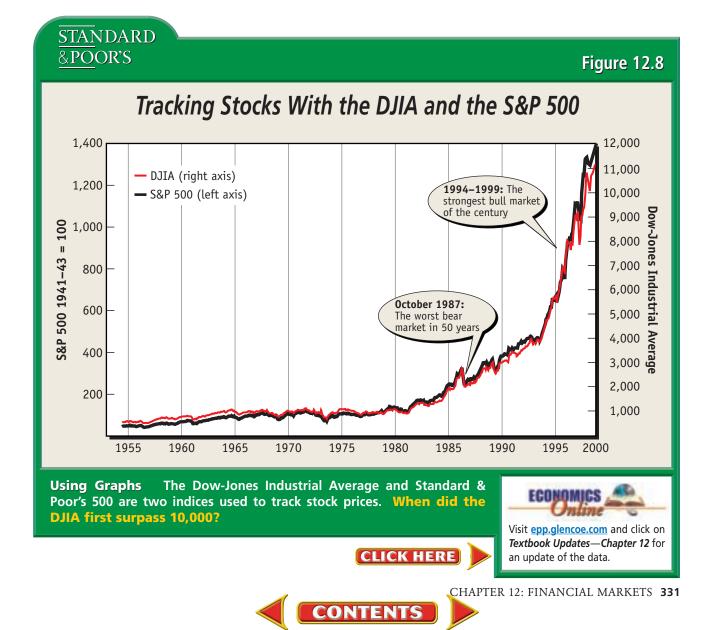
Stock exchanges can be found throughout the world. Exchanges operate in such cities as Sydney, Tokyo, Hong Kong, Singapore, Johannesburg, and Frankfurt. Developments in computer technology and electronic trading have linked these markets so that most major stocks can be traded around the clock, somewhere in the world.

The Over-the-Counter Market

Despite the importance of the organized exchanges, the majority of stocks in the United States are not traded on exchanges. Instead, they are traded on the **over-the-counter market** (**OTC**)—an electronic marketplace for securities that are not traded on an organized exchange.

Securities traded over the counter are listed in a sophisticated computer network called the National Market System (NMS). The members of the OTC market belong to the National Association of Securities Dealers (NASD). The National Association of Securities Dealers Automated Quotation (NASDAQ), is the listing that provides information on stocks that this group trades. The main difference between a NASDAQ listing and the NYSE is that few OTC stocks pay dividends, mostly because they are issued by new firms.

The organized exchanges and the OTC market may differ, but this means little to investors. An investor who opens an Internet account with a brokerage firm may buy and sell stocks in both markets. When the investor places an order over the Internet to buy shares, the broker forwards the order to the exchange where the stock is traded and the purchase is made there—whether it be on the NYSE, AMEX, or OTC.



Investment



Performance Some investors take chances, while others prefer a safe investment. What are the two most popular indicators of the market's performance?

Measures of Stock Performance

Because most investors are concerned about the performance of their stocks, they often consult two popular indicators.

The Dow-Jones Industrial Average

The **Dow-Jones Industrial Average (DJIA)**, shown in **Figure 12.8**, is the most popular and widely publicized measure of stock market performance on the NYSE. In 1884, the Dow-Jones corporation published the average closing price of 11 active stocks. In 1928, coverage was expanded to 30 stocks. Since then, some stocks have been added, and others deleted, but the sample remains constant at 30.

Because of these changes, the DJIA is no longer a mathematical average of stock prices. Also, the evolution of the DJIA has obscured the meaning of a "point" change in the index. At one time, a one "point" change in the DJIA meant that an average share of stock changed by \$1. This is no longer the case. Consequently, it is better to focus on the percentage change of the index rather than the number of points.

Standard & Poor's 500

Another popular benchmark of stock performance is the **Standard & Poor's 500 (S&P 500).** It uses the price changes of 500 representative stocks as an indicator of overall market performance. Because the sum of 500 stock prices would be very large, it is reduced to an index number. Unlike the Dow-Jones, the Standard & Poor's 500 reports on stocks listed on the NYSE, AMEX, and OTC markets.

Bull vs. Bear Markets

Investors often use colorful terms to describe which way the market is moving. For example, a **bull market** is a "strong" market with the prices moving up for several months or years in a row. One of the strongest bull markets in history began in 1995 when the DJIA broke 4,000–and then reached nearly 11,000 in 1999.

A **bear market** is a "mean" market, with the prices of equities moving sharply down for several months or years in a row. In late 1987, the DJIA nearly reached the 2,700 level, and then lost nearly 700 points before it finally recovered. As you can see, these two terms take their names from the characteristics of the animals they are named after.

Trading in the Future

In Figure 12.6 on page 325, markets are defined according to the life of the financial asset and whether or not it can be resold. Another attribute of a financial asset is time, which leads to a discussion of spot, futures, and options markets.

Spot and Futures Markets

A **spot market** is a market in which a transaction is made immediately at the prevailing price. The spot price of gold in London, for example, is the current price as it exists in that city. The term spot means "immediate" and is used to distinguish this market from two other markets that trade in the future.



Sometimes the exchange takes place later on, rather than right away. This can be arranged with a **futures contract**—an agreement to buy or sell at a specific date in the future at a predetermined price. For example, a buyer agrees to buy a specified amount of gold at \$280 an ounce from a seller, who promises delivery in six months. When the settlement date arrives, the buyer takes possession of the gold and pays the seller \$280—regardless of the market price.

Futures markets are the marketplaces in which futures contracts, or "futures," are bought and sold. Many of these markets are affiliated with the grain and livestock exchanges that originated in the Midwest. Futures markets include the New York Mercantile Exchange, the Chicago Board of Trade, the Chicago Mercantile Exchange, the New York Cotton Exchange, and the Kansas City Board of Trade.

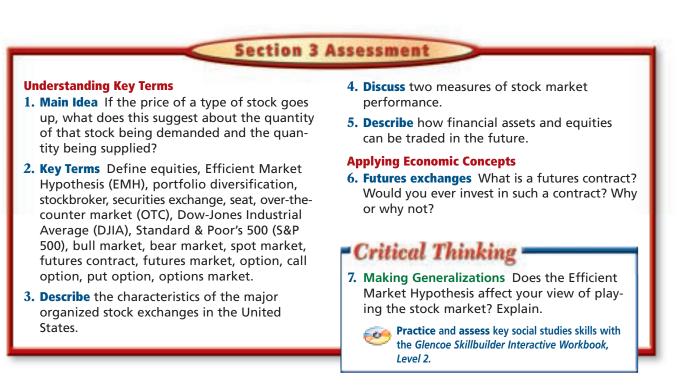
Options Markets

Options are contracts that provide the right to purchase or sell commodities or financial assets at some point in the future at a price agreed upon today. Options are closely related to futures; however, options give one of the parties the opportunity to back out.

For example, you may pay \$5 today for a **call option**—the right to *buy* a share of stock at a specified price some time in the future. If the call option gives you the right to purchase the stock at \$70, and if the price of the stock drops to \$30, you tear up the option and buy the stock at the going price. If the price rises to \$100, however, you can purchase the stock for \$70. Either way, the \$5 option gives you the right to make the choice in the future.

If you were interested in selling instead of buying, you would have purchased a **put option**-the right to *sell* a share of stock at a specified price in the future. If you pay \$3 for the right to sell at \$50, and if the price of the stock drops to \$40, you can require the buyer to pay the contract price for the stock. You would then net \$47 from the sale, the \$50 contract price minus the \$3 paid for the option. If the price rose to \$80 instead, you would be better off to tear up the option and sell the stock for \$80. Either way, the \$3 option gives you the right to make the choice in the future.

Options markets are the markets in which options are traded. Most of the exchanges that offer futures also sell options.



CRITICAL THINKING



Distinguishing Fact From Opinion

Being able to distinguish fact from opinion can help you make reasonable judgments about what others say and write. Facts can be proved by evidence such as records, documents, or historical sources. Opinions are based on people's differing values and beliefs.



Stockbrokers at work

Learning the Skill

The following steps will help you identify facts and opinions:

- Read or listen to the information carefully. Identify the facts. Ask: Can these statements be proved? Where would I find information to verify them?
- If a statement can be proved, it is factual. Check the sources for the facts. Often statistics sound impressive, but they may come from an unreliable source.
- Identify opinions by looking for statements of feelings or beliefs. The statements may contain words like *should*, *would*, *could*, *best*, *greatest*, *all*, *every*, or *always*.

Practicing the Skill

Read the excerpt that follows, then answer the questions.

The stock market has been good to America. In recent years, it has generated enormous wealth for individuals, financing for investment, jobs for people, and tax revenue for governments. Families now depend on it for retirement, the education of their children, and, increasingly, even consumption. Millions day-trade Internet stocks, and millions more actively manage their mutual funds and 401(k)s. Soon, people may be handling Social Security investment accounts. The stock market is insinuating itself into the everyday lives of ordinary Americans as never before. . . .

A few years ago, only a small percentage of the American population—the rich—would have been affected by this. No longer. A quarter of households earning \$10,000 to \$25,000 now own equities, either directly or through defined-contribution pension plans such as 401(k)s. Two-thirds of all households earning \$50,000 to \$99,000 hold equities. And some 84% of households earning over \$100,000 own stocks.

-Business Week, December 21, 1998

- 1. Identify facts. How can you verify these statements?
- **2.** Note opinions. What phrases alert you that these are opinions?

Application Activity

CONTENTS

Record a television interview. List three facts and three opinions that were stated. Do the facts seem reliable? How can you verify the facts? What statements, if any, seemed to contain both fact and opinion?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

334 UNIT 3 MACROECONOMICS: INSTITUTIONS

Section 1

Savings and the Financial System

(pages 313–316)

- **Saving** is a process that makes **savings** available for others to invest.
- The economy has a **financial system** that transfers savings to investors.
- **Financial assets** are the receipts savers get when they loan funds to individuals, businesses, and governments.
- **Financial intermediaries** help facilitate the transfer of funds from savers to other investors.
- Financial intermediaries include finance companies, life insurance companies, **mutual funds, pension funds,** and **real estate investment trusts,** or **REITs.** These institutions are part of the financial system, even though they do not take deposits like commercial banks, savings banks, or credit unions.

- **Current yield** is a measure of return on bonds. Bond ratings are widely available and can be used as a measure of the bond's risk.
- Financial markets are named for the characteristics of the assets traded in them. **Capital markets** have financial assets with maturities of more than one year, while **money markets** have assets with maturities of less than one year.
- Assets traded in **primary markets** are those that have to be redeemed by the issuer.



Section 2

Investment Strategies and Financial Assets

(pages 318-326)

- Investors generally require larger returns to compensate for situations with greater **risk**.
- Successful investors analyze their goals, invest consistently, and avoid complexity.
- **401(k) plans** are popular investments that offer simplicity and relatively high returns.
- Bonds are popular financial assets. The three components of bonds are the **coupon**, the **maturity**, and the **par value**.

Section 3

CONTENTS

Investing in Equities, Futures, and Options (pages 328–333)

- **Equities,** or stocks, are different from financial assets because equities represent ownership of a corporation rather than a loan to it.
- Because equity markets are reasonably efficient, most investors diversify their portfolio to protect against risk.
- Many stocks are traded on organized exchanges such as the NYSE, the AMEX, and a number of regional stock exchanges.
- The majority of stocks are traded in a computerized marketplace of organized dealers called the **over-the-counter market.** These stocks represent newer and sometimes smaller companies that could not get listed on the NYSE.

Chapter 12 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 12—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Reviewing Key Terms

For each of the investments below, write a brief paragraph that describes at least three of the term's principal characteristics.

- 1. Treasury bond
- 2. Treasury bill
- 3. equities
- 4. Treasury note
- 5. futures
- 6. Individual Retirement Account
- 7. 401(k)
- 8. Roth IRA
- 9. option
- 10. municipal bond

Reviewing the Facts

Section 1 (pages 313–316)

- **1. Explain** the relationship between savings and capital formation.
- **2. Describe** how financial assets are created in the free enterprise system.
- **3. Describe** five nonbank financial intermediaries in the American economy.

Section 2 (pages 318–326)

- 4. Name four considerations important to investors.
- 5. Explain how a 401(k) plan works.
- 6. Explain how current yields are computed.

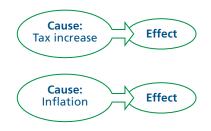
7. Compare four types of bonds that are commonly traded in the United States.

Section 3 (pages 328–333)

- 8. Explain what the Efficient Market Hypothesis means to investors.
- **9. Compare** the NYSE to the other organized stock exchanges.
- **10. Describe** the nature of the over-the-counter market.
- **11. Compare** the similarities and differences between the Dow-Jones Industrial Average and the Standard & Poor's 500.
- **12. Explain** how options contracts are different from futures contracts.

Thinking Critically

- 1. Drawing Conclusions If you contacted several local banks to get their rates paid on various CDs, you would find that rates vary only slightly from one institution to another. Do you think the similarities are caused by efficient markets or by other causes? Explain.
- 2. Understanding Cause and Effect Explain how each of the following will affect saving. Use a graphic organizer similar to the one below to answer the question.
 - **a.** An increase in the federal personal income tax is instituted.
 - **b.** The United States undergoes a prolonged period of inflation.



Chapter 12 Assessment and Activities

Applying Economic Concepts

- 1. **Risk-Return Relationship** List five possible investments a person could make if funds were available. Rank the investments in order of how much risk each entails (from highest to lowest). Then rank the investments according to expected returns (from highest to lowest). What is the significance of the rankings to the risk-return relationship?
- 2. Financial Assets Visit a local bank or a nonbank financial institution. Ask for its free brochure that outlines the institution's investment opportunities such as savings accounts, certificates of deposit, money market accounts, and stock brokerage accounts. Write a brief report describing the financial assets the institution generates or trades.
- **3. Market Efficiency** What does the Efficient Market Hypothesis mean to you as an investor, especially with respect to the composition of your stock portfolio?

Math Practice

Complete the following table by filling in the correct data in the blank spaces.

Total Income	Consumption	Saving
a. \$2,000	\$1,800	
b.	\$2,500	\$1,000
c. \$7,000		-\$500
d. \$10,000	\$10,000	
e. \$12,500		\$400

Thinking Like an Economist

How do you think the Internet will affect future competition among stockbrokers for individual investors' business?

Technology Skill

Using the Internet Scan the stock market listings in the business section of your local newspaper. Assume that you have \$50,000 to invest in a stock portfolio, and select one or more stocks in which to invest. Study the information on reading the financial page in the Economics Handbook in the front of this book. Then, in your journal, track the progress of your stock(s) for one week or more. To help you keep track, use the following Internet sites:

The Dow Jones Industrial Averages® <u>http://averages.dowjones.com</u>

The New York Stock Exchange <u>http://www.nyse.com</u>

American Stock Exchange <u>http://www.amex.com</u>

Chicago Board of Trade <u>http://www.cbot.com</u>

After you have completed the activity, write a onepage paper in which you explain what types of information people should have before they invest in stocks. Share your results with the rest of the class.

Building Skills

CONTENTS

Distinguishing Fact from Opinion Read the following statements. Identify each as a statement of fact or a statement of opinion. Then, explain the reasoning behind your answer.

- 1. A share of stock is a unit of ownership in a corporation.
- 2. Market analysts' predictions are of little value.
- **3.** Junk bonds are excellent investments because they have high yields.
- 4. The United States is not the only government to sell bonds.
- **5.** Financial intermediaries take part in every financial transaction.
- Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

UNIT 4 Macroeconomics: Policies

CONTENTS

CHAPTER 13 Economic Performance

CHAPTER 14 Economic Instability

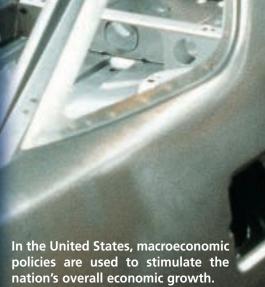
CHAPTER 15 The Fed and Monetary Policy

CHAPTER 16 Achieving Economic Stability

Why It's Important

As you read this unit, learn how the study of economics helps answer the following questions:

- Why is the price of a used car not added to the nation's gross domestic product?
- Why does your dollar buy less than six cents worth of the goods and services it bought 100 years ago?





CLICK HERE

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To learn more about macroeconomics through information, activities, and links to other sites, visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u>

CHAPTER 13

Economic Performance

Economics & You

A growing economy means an expanding economy, one that continues to provide more people with what they want or need. In **Chapter 13**, you will learn how the nation's economic growth is the key to a better future for everyone. To learn how statistical measures are used to monitor the economy's performance, view the Chapter 20 video lesson:

> Measuring the Economy's Performance





Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 13—Chapter Overviews* to preview chapter information. **CLICK HERE**

CONTENTS

Any final product manufactured within the United States is included in the country's GDP.

Measuring the Nation's Output

SECTION 1

Study Guide

Main Idea

Gross Domestic Product (GDP) and Gross National Product (GNP) are two important measures of economic performance.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by identifying what calculations are necessary to go from GDP to GNP.



Key Terms

Gross Domestic Product, national income accounting, intermediate products, secondhand sales, nonmarket transactions, underground economy, Gross National

Cover Story

GDP Growth Revised Up to 4.3 Percent

Torrid consumer spending helped the nation's economy grow at a brisk annual rate of 4.3 percent at the



percent at the beginning of the year. ... [The] economy's robust

first-quarter pace was far above expectations. ...[R]obust consumer spending, which continued to power economic growth, rose at an annual rate of 6.7 percent, the best showing in a decade, the government

said. The GDP report indicated that inflation remains low. An inflation gauge tied to the GDP rose at an annual rate of just 1.2 percent in the first quarter. . . . Spending for new homes and apartments increased at a 15.4 percent rate in the first quarter, the best showing in a year.

-The Washington Post, June 25, 1999

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Product, net national product, national income, personal income, disposable personal income, household, unrelated individual, family, output-expenditure model, net exports of goods and services

Objectives

After studying this section, you will be able to:

- 1. Explain how Gross Domestic Product (GDP) is measured.
- 2. Describe the limitations of GDP.
- 3. Understand the importance of GDP.

Applying Economic Concepts

Gross Domestic Product Read to find out why GDP is the most important measure of overall economic performance.

The report in the cover story may be of only passing interest to many people, but it is vitally significant news for economists. This is because **Gross Domestic Product (GDP)**—the dollar amount of all final goods and services produced within a country's national borders in a year—is the single most important measure of the economy's overall economic performance. When GDP does well, the rest of the economy usually does well.

Economists devised **national income accounting**–a system of statistics and accounts that keeps track of production, consumption, saving, and investment–to track overall economic performance. This data becomes part of the National Income and Product Accounts (NIPA) kept by the U.S. Department of Commerce. The NIPA is like a statistical road map that tells Americans where they are and how they got there.

GDP—The Measure of National Output

GDP is a measure of national output. This means that Japanese automobiles produced in Kentucky, Indiana, Ohio, or Tennessee count in GDP even if investors who own the plants live outside the United States. On the other hand, production in U.S.-owned plants that are located in Mexico, Canada, or other countries is not counted in GDP.

Computing GDP

The measurement of GDP is fairly easy to grasp. Conceptually, we only have to multiply all of the final goods and services produced in a 12-month period by their prices, and then add them up to get the total dollar value of production.

Figure 13.1 provides an example. The first column contains three categories of products used in the NIPA. These are goods, services, and structures. The third category–structures–includes residential housing, apartments, and buildings for commercial purposes. In the second column, the final goods and services produced in the year are listed. The next two columns show the quantity produced and the average price of each product. To get GDP, multiply the quantity of each good by its price and then add the results, as is done in the last column of the table.

Government statisticians use scientific sampling techniques along with other methods to estimate both the quantity and the prices of the individual products. In addition, since the reporting process includes such extensive data, GDP estimates are made only quarterly, or every three months. The figures are revised for months after that, so it takes several months or years to discover how the economy actually performed.

Figure 13.1

ECONOMICS At A GLANCE

Estimating Gross Domestic Product Dollar Value Quantity Price Product (millions) (per 1 unit) (millions) Automobiles 6 \$20,000 \$120,000 **Replacement Tires** 10 \$60 \$600 Goods Shoes 55 \$50 \$2,750 * ...* ...* ...* Haircuts 150 \$8 \$1,200 **Income Tax Filings** 30 \$150 \$4,500 Services Legal Advice 45 \$200 \$9,000 ...* ...* ...* * Single Family 3 \$75,000 \$225,000 Multifamily 5 \$300,000 \$1,500,000 Structures Commercial 1 \$1,000,000 \$1,000,000 ...* * * ...* Total Gross Domestic Product = \$9 trillion

Note: *... other goods, services, and structures

Using Tables Gross Domestic Product is the dollar value of all final goods, services, and structures produced within a country's borders in a year. How is the dollar value for each of the products on the table calculated?



Underground Economy THE INDEESSALAND DYORBUTE al tanggati dés 19 gasting the Eonerhouse ÷a waane ZTERINE, BLACK MAR 12 KONS IN PRIVENCE EXCLUSED ONT OF LEAN IFF-- NONE OF TELER 211616-9 NENESS NTHE CANTRY 2 IF THEY GIVE OF THUS, みてい irg hornong BY WAY BUSE DO.GA inder Wer "L TO COLLET THE TAXAS PF 452E hat should be paid only. The NONEY TO BALANCE LEGAL CASH CHANGING, AND THE BUTSET

Excluded From GDP Although there is no consensus on the size of the underground economy, estimates suggest that it is between 5 and 15 percent of the recorded GDP. *What activities make up the underground economy*?

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Some Things Are Excluded

When the Department of Commerce analyzes production data, it faces several decisions concerning what should and what should not be included in GDP.

One case involves **intermediate products** products used to make other products already counted in GDP. If you purchase replacement tires for your automobile, for example, these tires are counted in GDP. However, if you purchase a new car, the tires are not counted separately because their value is built into the price of the car.

Intermediate products are eliminated from GDP so they are not counted twice, which would make GDP seem larger than it actually is. Some goods such as flour, sugar, and salt *are* included in GDP if they are bought for final use by the consumer. For example, if you buy flour to make a pie, the flour counts in GDP. If you are a baker who buys the flour to make pies for sale, only the value of the pies are counted.

Another decision involves the exclusion of **secondhand sales**—the sales of used goods. When products already produced are transferred from one

person or group to another, no new production is created. Although the sale of a used car, house, clothes, or compact disc player may give others cash that they can use on new purchases, only the original sale is included in GDP.

Nonmarket transactions-transactions that do not take place in the market-are excluded because they are so difficult to measure. GDP does not take into account the value of services when you mow your own lawn or perform your own home maintenance. These activities are counted only when they are done for pay outside the home. The largest group of nonmarket transactions excluded from GDP includes the services that homemakers provide. If homemakers received pay for the cooking, cleaning, laundering, child care, and other household chores they normally perform, billions of dollars would be spent every year for these services.

Many other activities take place in the market, but they are excluded from GDP because they are illegal and not reported. Unreported legal and illegal activities such as gambling, smuggling, prostitution, drugs, and counterfeiting are part of the so-called **underground economy.**

STANDARD &POOR'S INFOBYTE

GDP Due to the increased level of globalization in the economy, the GDP calculation has replaced Gross National Product as the accepted measurement of national output. GDP differs from GNP in that GDP is an international measure of a country's annual *output* regardless of who owns the resources. GNP, on the other hand, is an international measure of a country's *income*, regardless of where the factors of production are located.

Limitations of GDP

Increases in GDP are desirable because they indicate that more people have jobs and earn an income. GDP alone, however, tells nothing about the *composition of output*. If GDP increases by \$10 billion, for example, we know that production is growing and we likely would view the growth as a good thing. However, we might feel differently if we discover that the extra production took the form of military nerve gas stockpiles rather than schools, libraries, and parks.

Additionally, GDP tells little about the impact of that production on the *quality of life*. The construction of 10,000 new homes may appear to be good for the economy. However, if the homes threaten a wildlife refuge or destroy the natural beauty of an area, the value of the homes may be viewed differently. In practice, GDP does not take into account quality of life issues, so it is helpful to be aware of such matters to gain a better understanding of GDP.

An Overall Measure of Economic Health

Despite its limitations, GDP is still our best measure of overall economic health. Because it is a measure of the voluntary transactions that take place in the market—and because voluntary transactions are only made when both parties feel they are better off—a larger GDP indicates that more people are better off than before. If GDP does not grow, people may become unhappy and dissatisfied with government or its leaders. Presidential elections are often influenced by the health of the economy. In 1992, President George Bush lost a very close election to Bill Clinton, in part because people were still suffering from the short but sharp GDP downturn in 1991. Had the economy been healthy, many political analysts believe that Bush would have been reelected.

We can examine smaller parts of GDP-housing, consumer spending, and even the price increases detailed in the cover story-if we want more detail, but the total measure is the standard followed most closely. For these reasons, GDP is the single most important economic statistic compiled today.

GNP—The Measure of National Income

When economists measure income rather than output, they use **Gross National Product (GNP)**—the dollar value of all final goods, services, and structures produced in one year with labor and property supplied by a country's residents.

GNP is based on GDP, but there are differences between the two. While GDP measures the value of all the final goods and services produced within U.S. borders, for example, GNP measures the income of all Americans, whether the goods and services are produced in the United States or in other countries. To go from GDP to GNP, it is necessary to add all payments that Americans receive from outside the United States, then subtract all payments made to foreign-owned resources in the United States.

Figure 13.2 shows the relationship between GDP and GNP. Notice that GNP is the smaller of the two figures. This is because the United States paid out more income to factors of production from the rest of the world than it received; this is not the case for all countries. In a closed economy–one with no foreign sector–GDP equals GNP.

Net National Product

GNP is the first of five income measures included in the National Income and Product Accounts (NIPA). The second measure is **net national product (NNP),** or GNP less depreciation. Depreciation represents the capital equipment that has worn out or become obsolete over the year.





The National Income and Product Accounts

(in billions of current dollars)

Gross Domestic Product (GDP)	\$8,799.7
Plus: Payments to American citizens who employ resources outside the U.S. Less: Payments to foreign-owned resources employed inside the U.S.	+ 270.3 - <u>292.9</u>
Gross National Product (GNP)	<u>\$8,777.1</u>
Less: Capital consumption allowances and adjustments (depreciation)	- 932.0
Net National Product (NNP)	<u>\$7,845.1</u>
Less: Indirect business taxes and subsidies	594.1
National Income (NI)	<u>\$7,251.0</u>
 Plus: Transfer payments to persons, personal interest income, and Social Security receipts Less: Undistributed corporate profits, corporate income taxes, and Social Security contributions 	+ 2,214.7 - <u>2,115.0</u>
Personal Income (PI)	<u>\$7,350.7</u>
Less: Personal taxes and nontax payments	1,136.0
Disposable Personal Income (DI)	<u>\$6,214.7</u>

Source: Survey of Current Business, June, 1999 (data for first quarter)

Using Tables The National Income and Product Accounts show the relationship between GDP and five measures of the nation's income. **What is the main difference between GDP and GNP?**



Visit <u>epp.glencoe.com</u> and click on *Textbook Updates—Chapter 13* for an update of the data.

National Income

The third measure is **national income (NI).** National income is the income that is left after all taxes except the corporate profits tax are subtracted from NNP. Examples of these taxes, also known as indirect business taxes, are excise taxes, property taxes, licensing fees, customs duties, and general sales taxes.

Personal Income

CLICK HERE

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The fourth measure of the nation's total income is **personal income (PI)**—the total amount of income going to consumers before individual income taxes are subtracted. To go from national to personal income, four adjustments must be made.

First, income that does not go to the consumer must be subtracted from national income. One such type of income is retained earnings, also known as undistributed corporate profits. These are the profits that corporations keep to reinvest in new plants, offices, and equipment.

The second type of income that must be subtracted consists of corporate income taxes, which is a form of income to government. The third item subtracted is Social Security contributions from people's paychecks. After these three types of income have been subtracted from national income, transfer payments in the form of unemployment insurance, Social Security, medicaid, and several other forms of assistance must be added back in.

Disposable Personal Income

The fifth and smallest measure of income is **disposable personal income (DI)**—the total income the consumer sector has at its disposal after personal income taxes. This is an important measure because it reflects the actual amount of money the consumer sector is able to spend.

At the individual level, a person's disposable income is equal to the amount of money received from an employer after taxes and Social Security have been taken out. The \$586.89 net pay on the check in **Figure 9.9** on page 241, plus the \$3.20 of miscellaneous deductions, is disposable personal income.

The \$3.20 is part of disposable income because the deduction was for something other than FICA or taxes. The wage earner could even choose to have more salary withheld to cover contributions to a credit union or charity or to buy savings bonds. However, these contributions would not lower a person's disposable personal income—they are merely one way of allocating disposable income.



A Growing Female Workforce The number of women in the labor force has virtually doubled since the early 1960s. From 1960 to 1997, the number of women in the workforce increased from 37.7 percent to 59.8 percent. The increase is a result of women having more education than ever before and delaying child rearing until they are established in their careers.

Economic Sectors and Circular Flows

It is useful to think of the economy as being made up of several different parts, or sectors. These sectors receive various components of the national income, and they use this income to purchase the total output. Sectors, described below and illustrated in **Figure 13.3**, are critical links in the circular flow of economic activity.

Consumer Sector

The largest sector in the macro economy is the consumer, or private, sector. Its basic unit, the **household**, is made up of all persons who occupy a house, apartment, or room that constitutes separate living quarters. A household includes related family members and all others—such as lodgers, foster children, and employees—who share the living quarters.

As long as the person or persons occupy a separate place of residence, a household also can consist of an **unrelated individual**—a person who lives alone even though he or she may have family living elsewhere. The concept of a household is broader than that of a **family**—a group of two or more persons related by blood, marriage, or adoption who are living together in a household.

All three definitions have value to the United States Bureau of the Census. The definition of the household is especially useful because the demand for durable goods, such as stoves, water heaters, furnaces, and refrigerators, is more closely tied to the number of households than to the number of families. Also, many households, even when made up of persons not related by blood, marriage, or adoption, tend to behave as a single economic unit.

Shown as **"C"** in **Figure 13.3**, the consumer sector receives its income in the form of disposable personal income. In a sense, the consumer sector receives the income that is left over after all of the depreciation, business taxes, and FICA payments are made, plus the income received in transfer payments that are added back in.

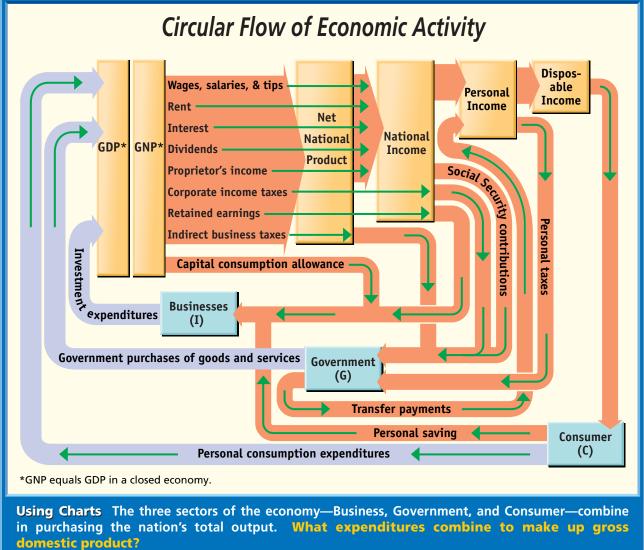
Investment Sector

The second sector of the macro economy is the business, or investment, sector, labeled "I" in



ECONOMICS At a glance

Figure 13.3



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Figure 13.3. It is made up of proprietorships, partnerships, and corporations. It is the productive sector responsible for bringing the factors of production together to produce output.

The income to the investment sector is the depreciation that is subtracted from GNP and the retained earnings subtracted from NI. The business sector can treat depreciation as a form of income because it is a non-cash expense that never leaves the firm.

Government Sector

The third sector is the public sector, which includes all local, state, and federal levels of government. Shown as **"G"** in **Figure 13.3**, the government sector receives its income from sources such as indirect business taxes, corporate income taxes, Social Security contributions, and personal income taxes from the consumer or household sector. If the figure had a foreign sector, then customs duties would also be part of the sector's income.

Foreign Sector

The fourth sector of the macro economy is the foreign sector, usually identified as "F," but not shown in **Figure 13.3.** This sector includes all consumers and producers outside the United States. Unlike the other sectors, the international sector does not have a source of income specific to it.

Instead, this sector represents the difference between the dollar value of goods sent abroad and the dollar value of goods purchased from abroad. If the two are reasonably close, the foreign sector appears to be fairly small, even when there are large numbers of goods and services being traded.

The Output-Expenditure Model

The circular flow in **Figure 13.3** is complete when the output-expenditure model is introduced. The **output-expenditure model** is a macroeconomic model used to show aggregate demand by the consumer, investment, government, and foreign sectors. When this is written as

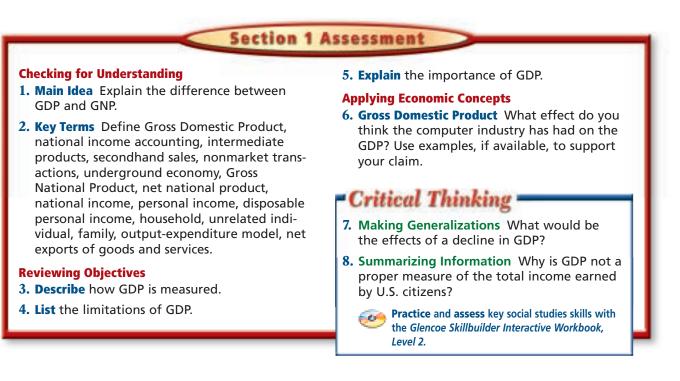
$\mathsf{GDP}=\mathsf{C}+\mathsf{I}+\mathsf{G}+\mathsf{F}$

the equation becomes a formal output-expenditure model used to explain and analyze the economy's performance. According to this model, the consumer sector spends its income on the goods and services used by households. These personal consumption expenditures include groceries, rent, books, automobiles, clothes, and almost anything else people buy.

The investment, or business, sector spends its income on plants, offices, equipment, inventories, and other investment goods. These expenditures represent the total value of capital goods created in the economy during the year.

The government sector spends its income on many categories, including national defense, income security, interest on the national debt, health care, roads, and education. The only major government expenditure not included in total output is transfer payments, because this money is used by others to buy goods and services that are part of total GDP.

The foreign sector also buys many goods and services-tractors, computers, airplanes, and agricultural products-that make up GDP. In return, it supplies such products as Japanese cars, Korean shirts, and Brazilian shoes to be consumed at home. For this reason, the foreign sector's purchases are called **net exports of goods and services**, a term that refers to the difference between the United States's exports and its imports.



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TECHNOLOGY Skill

Using a Spreadsheet

People use electronic spreadsheets to manage numbers quickly and easily. Formulas may be used to add, subtract, multiply, and divide the numbers in the spreadsheet. If you make a change to one number, the totals are recalculated automatically for you.

Learning the Skill

To understand how to use a spreadsheet, read the following descriptions of several spreadsheet calculations:

• A spreadsheet is an electronic worksheet. It is made up of numbered cells that form rows and columns. Each column (vertical) is assigned a letter or number. Each row (horizontal) is assigned a number. Each point where a column and row intersect is called a *cell*. The cell's position on the spreadsheet is labeled according to its corresponding column and row–Column A, Row 1 (A10); Column B, Row 2 (B2) and so on. See the diagram below.

A1	B1	C1	D1	E1
A2	B2	C2	D2	E2
A3	B3	C3	D3	E3
A4	B4	C4	D4	E4
A5	B5	C5	D5	E5

- The computer highlights the cell you are in. The contents of the cell also appear on a status line at the top of the screen.
- Spreadsheets use *standard formulas* to calculate numbers. To create a formula, highlight the cell you want the results in. Type an equal sign (=) and then build the formula, step by step. If you type the formula =B4+B5+B6 in cell B7, the values in these cells are added together and the sum shows up in cell B7.
- To use division, the formula would look like this: =A5/C2. This divides A5 by C2. An asterisk (*)

signifies multiplication: =(B2*C3)+D1 means you want to multiply B2 times C3, then add D1.

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S., 1	A		E .	0	£	
1	Nation	GNP Per	Population	Life	Life	
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4	Bungladesh	260	123.4	59	58	
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4	India	300	968.7	59	59	
7	Nepal	210	23.7	55	54	- 1
0	Pakistat	480	141.9	58	59	
9	Sri Lanka	740	18.9	76	74	
10	U.S.	28,020	270.2	78	79	
11	0.000	39.557				1
12						

The computer highlights the cell you're working in.

Practicing the Skill

Study the spreadsheet on this page.

- **1.** Which cell is highlighted? What information is found in the cell?
- **2.** What formula would you type in which cell to calculate the average life expectancy of both males and females in Sri Lanka?
- **3.** What formula would you type in which cell to find the total GNP per capita of the countries listed?

Application Activity

Use a spreadsheet to enter your test scores and your homework grades. At the end of the grading period, input the correct formula and the spreadsheet will calculate your average grade.



GDP and Changes in the Price Level

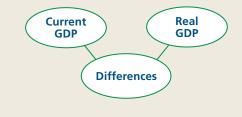
Study Guide

Main Idea

GDP is calculated at existing prices and adjusted for inflation to make comparisons over time.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by explaining the ways in which these economic measures differ from one another.



Key Terms

inflation, price index, base year, market basket, consumer price index, producer price index, implicit GDP, price deflator, current GDP, real GDP, GDP in constant dollars

Objectives

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After studying this section, you will be able to:

- 1. Explain how a price index is constructed.
- 2. Describe three price indices.
- **3. Understand** the difference between real and current GDP.

Applying Economic Concepts

Market Basket Read to find out how economists use the market basket, consisting of items most frequently purchased by consumers, to construct the consumer price index.

Cover Story

Eyes on the Price

Trenton, N.J.—The hospital's finance director is relentlessly unhelpful, but she is still no match for Sabina Bloom, government gumshoe.



BLS keeps tabs

Mrs. Bloom wants to know the exact prices of some hospital services. "Nothing's changed," the woman says. "Well, do you have the ledger?" Mrs. Bloom asks. "We haven't changed any prices," the woman insists. Mrs. Bloom's fast talk finally pries the woman from behind her desk, and she gets the numbers. It turns out that a semi-private surgery recovery room now costs \$753.80 a day—or four cents less than a month ago.

a day—or four cents less than a mount of Chalk up another small success for Mrs. Bloom, one of about 300 Bureau of Labor Statistics employ-

ees who gather the information that is fed into the monthly Consumer Price Index.

—The Wall Street Journal, January 1, 1997

ost people are surprised to discover how hard the government works to collect and process data. The scene described in the cover story dealing with gathering information on inflation is just one such example.

Inflation is a rise in the general price level. It is important to track inflation because it distorts the economic statistics that we keep. To see how this happens, compare the GDP in **Figure 13.1** with the GDP in **Figure 13.4**. Assume that the second table was compiled one year after the first, and that the inflation rate during that year was 10 percent. The second and third columns in each table show that the product composition and quantity of output was the same for both years. In other words, there was no real change in the amount of goods and services produced.

The fourth and fifth columns in each table, however, do not match. Looking at columns 4 and 5, you'll notice that everything costs more in the second table than in the first one. This makes GDP rise by 10 percent, or \$900 billion, revealing



ECONOMICS At a glance

Figure 13.4

	Product	Quantity (millions)	Price (per 1 unit)	Dollar Value (millions)
Goods	Automobiles	6	\$22,000	\$132,000
	Replacement Tires	10	\$70	\$700
	Shoes	55	\$55	\$3,025
	*	*	*	*
Services	Haircuts	150	\$10	\$1,500
	Income Tax Filings	30	\$160	\$4,800
	Legal Advice	45	\$220	\$9,900
	*	*	*	*
Structures	Single Family	3	\$80,000	\$240,000
	Multifamily	5	\$330,000	\$1,650,000
	Commercial	1	\$1,100,000	\$1,100,000
	*	*	*	*
Total Gross Domestic Product = \$9.9 trillion				

Estimating Gross Domestic Product

Using Tables Inflation can distort the value of Gross Domestic Product from one year to the next. Compare the total gross domestic product in this chart to that in Figure 13.1. What accounts for the higher total?

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the effects of inflation. The problem is that the dollar value of the final output appeared to go up without any changes in the quantity of goods and services produced.

Constructing a Price Index

To remove the distortions of inflation, economists construct a **price index**—a statistical series that can be used to measure changes in prices over time. A price index can be compiled for a specific product or for a range of items.

It is fairly easy to construct a price index. First, select a **base year**–a year that serves as the basis of comparison for all other years. The price index expresses the price of goods and services in a given year as a percentage of the price of those goods during the base year.

Second, select the **market basket**–a representative selection of commonly purchased goods and services. Then, record the price of each item in the market basket. Finally, total the prices. The total represents the base-year market basket price and is assigned a value of 100 percent.

Figure 13.5 shows a price index for a representative market basket with a large number of items. Because 1982–84 is used as the base period, the prices in the base-year column are lower than those today. The total of the market prices–\$1,792.00–is assigned a value of 100 percent, which is the index number for that year.

In order to track inflation, we have to track the price of the goods and services in the market basket at regular intervals, and then compare them to the base year. In **Figure 13.5** for example, the cost of the market basket in 1998 is \$2,920.96–or 163 percent

higher than in the base year. By May of 1999, prices had increased to 166.2 percent of base-year prices.

Major Price Indices

Price indices can be constructed for a number of different purposes. Some measure changes in the price of a single item. Some measure the price changes of imported goods, while others do the same for agricultural products. Different base years are often used for each, but this is not important since index numbers for an individual series are only compared with other numbers in the same series.

Consumer Price Index

The **consumer price index (CPI)** reports on price changes for about 90,000 items in 364 categories. Prices for the goods and services currently sampled are taken from 85 geographically distributed areas around the country and are compared to their 1982–84 base-year prices. Some of the items are surveyed in all the areas, while others are sampled in only a few.

Information on consumer price changes is collected by Bureau of Labor Statistics employees, as described in the cover story on page 350. The BLS compiles the index monthly and then publishes it for the economy as a whole. There also are separate indices for 28 selected areas across the nation.

Producer Price Index

The **producer price index** measures price changes paid by domestic producers for their inputs. It is based on a sample of about 3,000 commodities and uses 1982 as the base year. The Bureau of Labor Statistics reports the producer price index every month. Although it is compiled for all commodities, it also is broken down into various subcategories that include farm products, fuels, chemicals, rubber, pulp and paper, and processed foods.

STANDARD &POOR'S

Figure 13.5

Constructing the Consumer Price Index

Item	Description	Price Base Period (1982–84)	Price Second Period (1998)	Price May (1999)
1.	Toothpaste (7 oz.)	\$1.40	\$1.49	\$2.25
2.	Milk (1 gal.)	1.29	1.29	1.79
3.	Peanut butter (2 lb. jar)	2.50	2.65	3.73
4.	Light bulb (60 watt)	.45	.48	.65
•••••	•••••	•••••	•••••	•••••
364.	Automobile engine tune-up	40.00	42.00	64.75
	Total Cost of Market Basket: Index Number:	\$1,792.00 100%	\$2,920.96 163.0%	\$2,978.30 166.2%

Using Tables The Bureau of Labor Statistics measures items in terms of their 1982–84 base-period prices. As time goes by, prices change, giving the new market basket a different total value. How is the new price index computed?

CLICK HERE



Visit <u>epp.glencoe.com</u> and click on *Textbook Updates—Chapter 13* for an update of the data.



THE GLOBAL ECONOMY World Real GDP, Annual Percent Change 8 6 Average, 1970-1996 4 2 n 1980 1985 1970 1975 1990 1995 2000 Source: International Monetary Fund projections **Critical Thinking** World Output 1. Sequencing Information In what year did Real GDP is gross domestic product after adjustreal GDP growth show its greatest ments for inflation. The expansion of real GDP is increase? expected to continue the above trend after the 2. Making Comparisons Compare the growth year 2000. rates of the 1980s with those of the 1990s.

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Implicit GDP Price Deflator

The **implicit GDP price deflator** is an index of average levels of prices for all goods and services in the economy. It is computed quarterly and has a base year of 1992.

Because GDP is a measure of the final output of goods and services and covers thousands of items instead of hundreds, many economists believe it is a good, long-run indicator of the price changes that consumers face. The deflator is only compiled quarterly, however, so it cannot be used to measure monthly changes in inflation.

Real vs. Current GDP

To compare GDP over time, you need to distinguish between changes in GDP because of the effects of inflation and changes in GDP that represent increases in production and income. When GDP is not adjusted to remove the effects of inflation, it is called **current GDP**, or simply GDP. When the distortions of inflation have been removed, it is called **real GDP** or **GDP in constant dollars.** This measure reflects what the GDP would have been if prices had not changed from what they were in the base year.

Which decade showed more consistent

Converting GDP to Real Dollars

growth?

How would you convert current GDP to GDP in real (inflation-adjusted) dollars? First, divide the current GDP by the deflator, then multiply by 100 (since the deflator is really a percent). Or:

Real GDP =
$$\frac{\text{GDP in current dollars}}{\text{implicit GDP price deflator}} \times 100$$

To illustrate, the GDP estimate for the first quarter of 1999 was \$8,799.7 billion. The GDP deflator for that period was 113.47. In other words, prices in 1999 were 113.47 percent higher than in 1992. To calculate, divide current GDP by the deflator and multiply by 100:

Real GDP =
$$\frac{\$8,799.7 \text{ billion}}{113.47} \times 100 = \$7,755.1 \text{ billion}$$

The amount of \$7,775.1 billion, then, is the dollar value of all goods and services produced, if measured in 1992 prices.

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Comparing GDP in Different Years

Converting current dollar amounts to real dollars is useful for making comparisons. For example, the current GDP estimate for the first quarter of 1999 was slightly larger than the \$8,681.2 billion GDP for the fourth quarter of 1998. Was this increase caused by an actual increase in the quantity of goods and services produced? Or was some of the increase in GDP caused by inflation?

We can find out by converting the 1998 fourth quarter GDP to 1992 dollars through the same procedure described above. The only change is that we have to use the GDP price deflator for the 1998 fourth quarter:

Real GDP = $\frac{\$8,681.2 \text{ billion}}{113.07} \times 100 = \$7,677.7 \text{ billion}$

In terms of constant 1992 dollars, real GDP in the last quarter of 1998 amounted to \$7,677.7 billion. Because the 1999 real or constant dollar GDP amount of \$7,755.1 billion was greater than the 1998 real dollar amount, there was a real increase in GDP that was not due to inflation.



Comparing Prices As long as we have inflation, we must be careful when comparing prices from different eras. *How can we compare a price today with a price from an earlier period?*

Section 2 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Would there be a difference between the rate of growth in real GDP and the rate of growth in real GDP per person? Explain. (Real GDP per person includes adjustments for changes in the population.)
- Key Terms Define inflation, price index, base year, market basket, consumer price index, producer price index, implicit GDP price deflator, current GDP, real GDP, GDP in constant dollars.
- **3. Explain** why a market basket is used whenever a price index is constructed.
- 4. List three major price indices.
- **5. Describe** the difference between real and current GDP.

Applying Economic Concepts

6. Market Basket If you were to construct a

market basket of goods and services that high school students typically consume, what would you select?

Critical Thinking

- 7. Making Comparisons What do you think a typical market basket 20 years ago might have included that we do not use today? What do you think a future market basket might have that we do not include?
- 8. Making Predictions Suppose you were told that you would earn \$60,000 a year in 2008. Explain why this information would tell you little about the standard of living you might enjoy. What other information would you need to have before you could evaluate how well you might live in 2008?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2. Profiles Economics

Succeeding in a "Man's" Business: Linda Alvarado

"There are still too many doors that need opening for women and minorities," Linda Alvarado once said. "There's no lack of talent or ambition out there—just a lack of opportunity for women and minorities to try."

Alvarado knows all about talent and ambition—and the obstacles women and minorities face. She herself has become one of the most successful individuals in one of the most male-dominated industries in the country: construction.

SUCCESS IN BUSINESS

As a young woman, Alvarado became intrigued by the construction industry. While still a student, she took a part-time job with a development company. Her talent and ambition earned her a steady advancement, and she eventually struck out on her own.

Alvarado knew enough about the construction industry to make first-rate service and on-time delivery the top priorities of her Denverbased Alvarado Construction Company. An objective analysis would have revealed a strong, well-run company, poised for growth. But building the Alvarado Construction Company proved difficult. The problem? Many clients and others in the industry clung to the notion that a woman could not run a construction firm. "There's a perception out there that buildings are built by guys big guys, real men," Alvarado said.

Alvarado's first-rate work disproved this nonsense. Through perseverance, she brought Alvarado Construction to a leading position in the construction industry. Moreover, many international companies, eager for her insight, have sought her entrepreneurial and management talents. Alvarado is also an owner of the Colorado Rockies baseball team.

SUCCESS IN THE COMMUNITY

Alvarado shines when it comes to using her business success to

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help others. Because of her own arduous personal experience, she is especially interested in the difficulties facing Hispanics and women and does what she can to help. She regularly meets with other women in business and mentors women who are just starting out. Many civic organizations have lauded her for her extensive contributions to the Hispanic community.

To many young people, therefore, Alvarado is a hero: a living example of how talent and ambition can open doors that long have been closed to women and minorities.

Examining the Profile

- Demonstrating Reasoned Judgment Reread the first paragraph. Explain why you agree or disagree with Alvarado.
- 2. Evaluating Information Do you think successful businesspeople like Alvarado have a moral responsibility to contribute to their communities? Explain your answer.

GDP and **Population**

SECTION 3

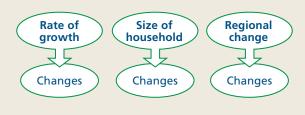
Study Guide

Main Idea

Projected population trends can help determine the direction of economic developments.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by identifying changes in the United States in the categories that are listed.



Key Terms

census, urban population, rural population, center of population, demographer, fertility rate, life expectancy, net immigration, baby boom, population pyramid, dependency ratio

Objectives

After studying this section, you will be able to:

- 1. Explain how population is estimated in the U.S.
- Describe the factors affecting future population growth.

Applying Economic Concepts

Urban and Rural How do you define the words *rural* and *urban*? Read to find out how rural and urban are defined in economic terms.

Cover Story

Atlanta Pays Environmental Price for Fast Growth

Atlanta (CNN)—Atlanta, long known as "a city built in a forest," is becoming a concrete jungle as its trees disappear to make way for shopping malls, houses, and highways.



Busy thoroughfare in Atlanta

Metro Atlanta's population jumped from 3 million to 3.5 million between 1990 and 1996, . . . and the trend shows no sign of slowing.

The Atlanta area includes four of the nation's top 10 fastest-growing counties. Developers are clearing an average of 50 acres of tree-covered land per day, which amounts to an area larger than Manhattan each year.

Unemployment . . . hovers around 3 percent. But commuting times have risen along with the number of jobs. The average commute for the Atlanta area is now 35 miles round-trip per day!—longer than any other city's in the nation.

-CNNInteractive, March 19, 1999

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The rate at which population grows influences GDP and economic growth in several ways. First, for an economy to grow, its factors of production must also grow or become more productive. One of the factors of production, labor, is closely tied to the size of the population.

Second, changes in population can distort some macroeconomic measures like GDP and GNP—which is why they are often expressed on a per capita, or per person, basis. If a nation's population grows faster than output, per capita output falls and the country could end up with more mouths than it can feed. Or, if a nation's population grows too slowly, there may not be enough workers to sustain economic growth.

Finally, population growth affects the quality of life, especially in fast-growing areas such as Atlanta. The study of population involves more than a simple total of people.

Population in the United States

The Constitution of the United States requires the government to periodically take a **census**, an official count of all people, including their place of residence. Because the



official census occurs every 10 years, it is called the *decennial census*. The nation's founders initiated the decennial census to apportion the number of representatives each state elects to Congress.

Counting the Population

The federal government conducted the first census in 1790. Throughout the 1800s, temporary agencies were created each decade to conduct the counts. In 1902, Congress permanently established the Census Bureau. Today, the Bureau works yearround, conducting monthly surveys relating to the size and other characteristics of the population.

When the Census Bureau conducts the decennial census, it uses the household as its primary survey unit. About five in every six households receive a "short form," which takes just a few minutes to fill out. The remaining households receive a "long form," which includes more questions and serves to generate a more detailed profile of the population. Bureau employees use different methods to count special groups, such as homeless persons, who do not normally conform to the household survey unit.

The Census Bureau tabulates and presents its data in a number of ways. One classification denotes the size of the **urban population**—people living in incorporated villages or towns with 2,500 or more inhabitants. The **rural population** makes up the remainder of the total population, including those persons who live in sparsely populated areas along the fringes of cities.

Historical Growth

The population of the United States has grown considerably since colonial times. The rate of growth, however, has steadily declined. Between 1790 and 1860, the population grew at a compounded rate of about 3.0 percent a year. From the beginning of the Civil War until 1900, the average fell to 2.2 percent. From 1900 to the beginning of World War II, the rate dropped to 1.4 percent. It declined slowly but steadily after that, and by 2000 the rate of population growth had fallen to approximately 0.9 percent.

The census also shows a steady trend toward smaller households. During colonial times, household size averaged 5.8 people. By 1960, the average had fallen to 3.33 and then to approximately 2.60 people today. The figures reflect a worldwide trend toward smaller families in industrial countries where couples often view children as a financial liability. The figures also show that more individuals are living alone today than ever before.

Regional Change

An important population shift began in the 1970s, with a migration to the western and southern parts of the country. These regions have grown quite rapidly, while most of the older, industrial areas in the North and East have grown more slowly or even lost population. Many people have left the crowded, industrial Northeast for warmer, more spacious parts of the country. States such as Arizona, Nevada, and Florida have grown tremendously.

The Census Bureau also tracks changes in the geographic distribution of the population. **Figure 13.6** shows changes in population distribution for nine regions in 1988 and projected in 2010.

The projections show growth in the West and South and losses of population in the Northeast and Central Plains regions.

Center of Population

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Another indicator of distribution shifts is the **center of population**—the point where the country would balance if it could be laid flat and all the people weighed the same. In 1790, the center was 23 miles east of Baltimore, Maryland. Since then, it has moved farther west. By the 1990 decennial census, the center of population had reached a point about 9.7 miles southeast of Steelville, Missouri.



Projected Population Trends

Population trends are important to many groups. Political leaders, for example, closely watch population shifts to see how voting patterns may change. Community leaders are interested because increases or decreases in local population affect services such as sanitation, education, crime prevention, and fire protection. Businesses use census data to help determine new plant locations, markets for products, and sales territories.

Factors Affecting Population Growth

According to **demographers**-people who study growth, density, and other characteristics of population, the three most important factors affecting population growth are fertility, life expectancy, and net immigration levels.

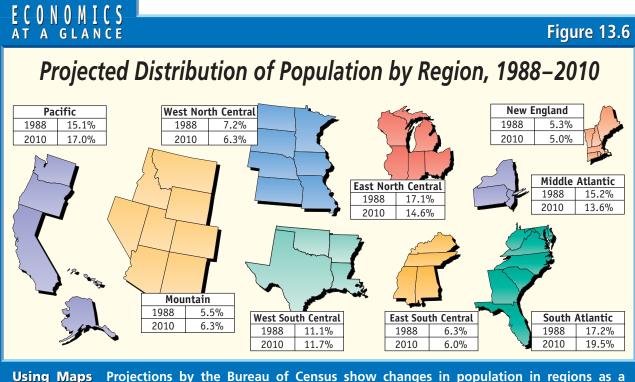
The **fertility rate** is the number of births that 1,000 women are expected to undergo in their

lifetime. A fertility rate of 2,110, for example, translates to 2.11 births per woman. The Bureau of the Census projects 2,119 as the most likely fertility rate for the United States. That rate is barely above the replacement population rate—the rate at which the number of births in a population just offsets the number of deaths.

This was not always the case. In the late 1800s and early 1900s, Americans tended to have large families. In the days before modern machines and appliances, the work of maintaining a home and family and earning a living was difficult and timeconsuming. Children were needed to do household chores, work on family farms, and bring in additional money from outside jobs.

As modern life became more automated, and fewer people lived on farms, having large families became less important. As a result, the nation's birthrate dropped steadily throughout the 1990s.

The second factor, **life expectancy**, is the average remaining life span of people who reach a given

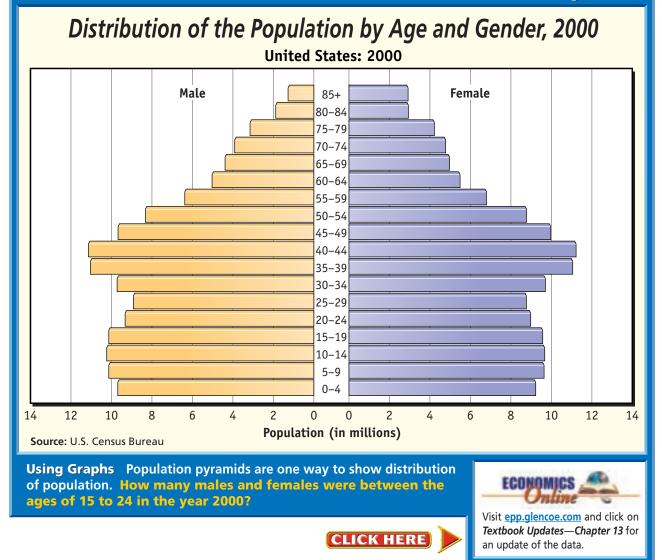


Using Maps Projections by the Bureau of Census show changes in population in regions as a proportion of the overall population. Which regions are expected to show a decrease in proportion of population?



ECONOMICS AT A GLANCE

Figure 13.7



CONTENTS

age. The Bureau of the Census predicts that life expectancy at birth will go from about 75.9 years today to 82.1 years by 2050.

The third major factor is **net immigration**—the net change in population caused by people moving into and out of the country. The Bureau estimates a constant net immigration of about 880,000 per year. This figure is based on 1,040,000 *immigrants* those entering the country—and 160,000 *emigrants* those leaving the country—in the future.

Taking into account these three factors, analysts expect the rate of population growth in the

United States to continue to decline. The growth rate is likely to fall to 0.82 percent between 2000 and 2005 and then continue to decrease until it reaches 0.49 percent by 2050. At that time, the resident United States population should be about 380 million people.

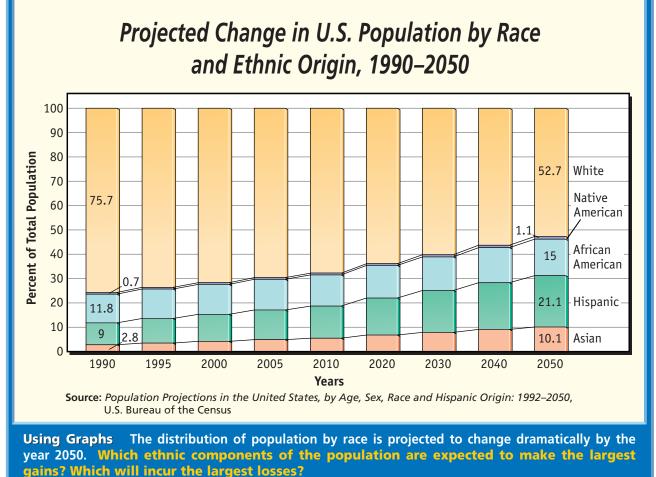
Projections by Age and Gender

In making its projections, the Census Bureau assumed that the aging baby boomer generation will drive many characteristics of the population.

CHAPTER 13: ECONOMIC PERFORMANCE 359

Figure 13.8





People born during the **baby boom**, the high birthrate years from 1946 to 1964, make up a sizeable portion of the population. As shown in **Figure 13.7** on page 359, people born during those years created a pronounced bulge in the **population pyramid**, a type of bar graph that shows the breakdown of population by age and gender.

The bulge in the middle of the pyramid represents the baby boomers. As years pass, more births add to the bottom of the pyramid and push earlier groups upward into higher age brackets.

Eventually, the baby boomers will reach their retirement years and want to collect pensions, Social Security, and medicare benefits. Because most of these payments are transfer payments, they will place a heavy burden on the younger and relatively smaller working population. The burden becomes evident with changes in the **dependency ratio**—a ratio based on the number of children and elderly for every 100 persons in the working-age bracket of 18 through 64. The dependency ratio was 63.9 in 1998, but according to Census Bureau projections, it will rise to 67.5 by 2020, to 77.5 by 2030, and to 78.0 by the year 2040.

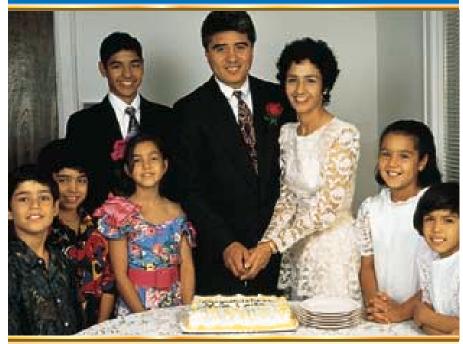
Finally, notice what the population pyramid indicates about gender. If you compare the left sides of the pyramid with the right, you will see that women tend to outlive men. Separate population pyramids can also be created for any racial or ethnic group.



Projections by Race and Ethnic Origin

Census Bureau projections for race and ethnic groups are shown in **Figure 13.8**. In 1990, Whites were the largest component of the total population. The numbers of African Americans, Hispanic Americans, Asian Americans, and Native Americans followed in that order.

Differences in fertility rates, life expectancies, and immigration rates will change racial statistics dramatically in the future. By 2050, the Asian component of the population will increase nearly five times, and the Hispanic component will almost double. The number of African Americans will also increase. Whites will remain a bare majority of the total population at 52.7 percent. Population



Trends The makeup of the United States population by age, gender, and ethnic origin has changed and is expected to continue this trend. *What is the Hispanic percentage of the population projected to be in the year 2050*?

Section 3 Assessment

ONTENTS

Checking for Understanding

- **1. Main Idea** How does the rate of population growth affect economic growth?
- 2. Key Terms Define census, urban population, rural population, center of population, demographer, fertility rate, life expectancy, net immigration, baby boom, population pyramid, dependency ratio.
- 3. Describe how U.S. population is estimated.
- **4. List** the three most important factors that determine future population growth.

Applying Economic Concepts

5. Urban and Rural What could happen to your community that might cause it to be classified

as a rural community instead of urban, or urban instead of rural?

Critical Thinking

- 6. Drawing Conclusions At some point, the baby boomers will reach their retirement years. How will this development affect your generation? How do you think the baby boomers will feel about this?
- 7. Understanding Cause and Effect What special demands does a high birthrate put on a nation's economy?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CHAPTER 13: ECONOMIC PERFORMANCE 361

BusinessWeek

AUGUST 31, 1998

Without immigrants, economic growth could decline by the year 2015, when the U.S. workforce is expected to shrink. Researchers predict that immigrants will help transform the economy in the twenty-first century.

Immigrants and the **Job Market**

During the next decade, barring a change in government policy, nearly a million immigrants are expected to arrive in the U.S. every year. Most, both legal and illegal, will continue to come from Latin America and Southeast Asia, but every foreign land will be represented. So will every level of skill, education, and talent: New arrivals will make up hotel beds, start their own shops, and pursue pathbreaking medical research.

And they'll play a critical role in providing the workers needed to keep the economy healthy. As baby boomers age and domestic birthrates stagnate, only foreign-born workers will keep the labor pool growing. By 2006, in fact, immigrants will account for half of all new U.S. workers; over the next 30 years, their share will rise to 60%.

Economic dynamism, in other words, will depend on a continuing stream of foreignborn workers. A limited labor supply "is going to affect growth," says Carol D'Amico, senior research fellow at the Hudson Institute; "if you fast-forward 10 years, it will be a real issue...."

Newsclip

Just as crucial, the array of education and skills immigrants bring could fit neatly with the supply of jobs over the next decade. According to Linda Levine at the Congressional



Research Service, a branch of the Library of Congress, 60% of the jobs created through 2005 will require some post-secondary education. But, she adds, low-skill jobs will still represent about half of total employment.

Compare that job market to the prospective immigrant labor force. Of recent arrivals, only 63% have finished high school.... Yet immigrants also are 50% more likely than Americans to have a graduate degree....

Indeed, foreign-born workers have shown an extraordinary ability to assimilate and flourish. Certainly, some less skilled workers will remain at the bottom economic rung all their lives. Yet others will catch up quickly. Within a decade of their arrival, the well-educated go from making barely half that of native-born Americans in comparable work to nearly 90%.

-Reprinted from August 31, 1998 issue of *Business Week*, by special permission, copyright © 1998 by The McGraw-Hill Companies, Inc.

Examining the Newsclip

CONTENTS

- **1. Analyzing Information** What role are immigrant workers expected to play in the U.S. economy during the twenty-first century?
- Making Predictions Will immigrants' skills be needed in the twenty-first century job market? Explain your answer.

Economic Growth

SECTION 4

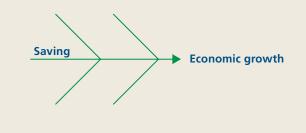
Study Guide

Main Idea

The ability of an economy to produce output determines its growth.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer like the one below by explaining how saving influences economic growth.



Key Terms

real GDP per capita, growth triangle, standard of living, tax base, renewable resources, capital-to-labor ratio, labor productivity

Objectives

After studying this section, you will be able to:

- 1. Describe how economists measure the growth of the United States economy.
- 2. Explain the importance of economic growth.
- 3. Outline the factors of economic growth.
- 4. Relate productivity to economic growth.

Applying Economic Concepts

Standard of Living Read to find out why the standard of living is important in a free enterprise economy.

Cover Story

Computer Age Gains Respect of Economists

In a nation of technophiles, where Internet millionaires are minted daily, it seems heresy to question the economic payoff from information technology.... But for more than a decade, most of the nation's leading economists have been heretics.



Computers are having an impact on the marketplace.

"You can see the Computer Age everywhere," Robert Solow, a Nobel prizewinner from the Massachusetts Institute of Technology wrote a few years ago, "but in the productivity statistics."

For years, even as the computer revolutionized the workplace, productivity...stagnated, barely advancing 1 percent per year.

Yet today, even renowned skeptics . . . are having second thoughts. Productivity growth has picked up, starting in 1996, ... [S]omething seems fundamentally different this time . . . computers (are) finally paying off.

-The New York Times, April 14, 1999

conomic growth, one of the seven major goals of the United States economy, has the potential for improving everyone's lot in life. Everyone includes not only every American, but also people living in other countries.

Economic Growth in the United States

Min One of the first things we need to know about economic growth is how to measure it. Two methods are equally important, and both make use of topics covered earlier in this chapter.

Measuring Growth

ONTENTS

When we measure economic growth in the short term-a period of one to five years-real GDP, or GDP adjusted to remove the distortions of inflation, is a fairly satisfactory gauge. Changes in real GDP on a quarterly or annual basis are the statistics we hear about most often in the news.

When it comes to the long run, however, real GDP does not tell the whole story. Because population also grows, real GDP per capita-the

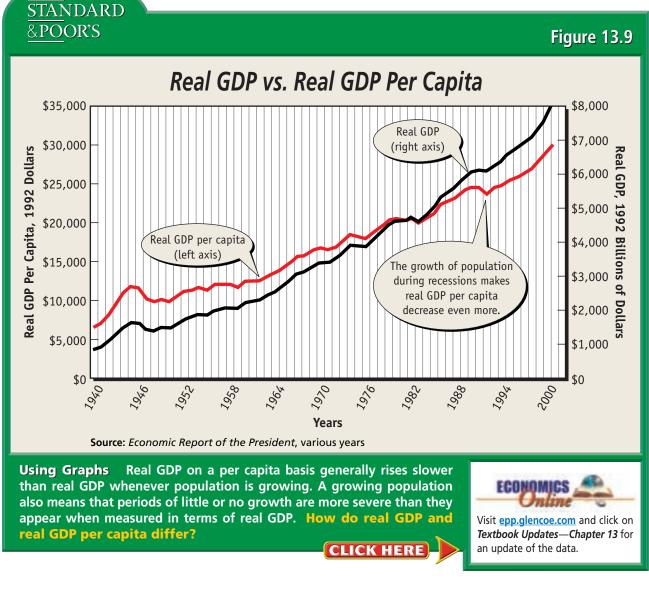
dollar amount of real GDP produced on a per person basis—is a better measure. Most economists agree that it is the single most important measure of long-term growth because it adjusts for changes in both inflation and population.

Dividing real GDP by the population yields real GDP per capita. If the population grows faster than real GDP, the average amount of output produced for each person in the economy falls. If the population grows more slowly than real GDP, there will be more goods and services available for everyone.

The Historical Record

Figure 13.9 compares real GDP with real GDP per capita. The figure shows that the overall rate of economic growth is somewhat slower when population growth is taken into account. In addition, relatively slow periods of real GDP growth can actually become negative if population growth is taken into consideration, as in 1990–91.

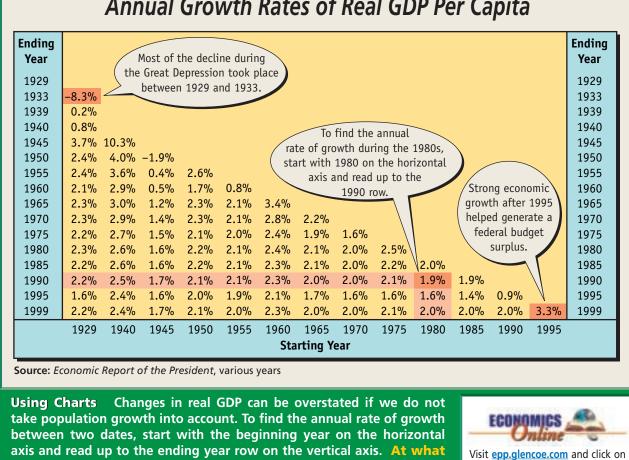
Another way to examine growth is with a **growth triangle**—a table that shows annual compound rates of growth between selected periods of time. **Figure 13.10** shows that there was almost no



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STANDARD &POOR'S

Figure 13.10



Annual Growth Rates of Real GDP Per Capita

Textbook Updates—Chapter 13 for an update of the data.

growth in real GDP per capita between 1929 and 1939. From 1940 to 1970, the annual rate was 2.9 percent, but it then fell to 2.0 percent from 1970 to 1980. Between 1980 and 1990, the growth rate fell to 1.9 percent. Growth plummeted to an even greater extent in the early 1990s, only to rebound spectacularly by the end of the decade.

rate did real GDP per capita grow between 1965 and 1990?

These are the types of numbers economists, businesspeople, politicians, and even the American public watch on a regular basis. They are far more noticeable-and even painful-when growth is slow, as President Bush discovered in the early 1990s, but they are nevertheless always important.

Importance of Economic Growth

Economic growth benefits a country in many ways. It raises the standard of living, eases the burden of government, and helps solve domestic problems. It can also boost the economies of foreign trade partners.

Standard of Living

CONTENTS

CLICK HERE

A major feature of a free enterprise economy is its ability to increase real per capita output enough to allow people to raise their standard of living. The standard of living means the quality of life

CYBERNOMICS SPOTLIGHT

Population Centers

Washington, D.C. is becoming a hotbed for new high-tech communication and Internet companies. Technology workers now outnumber government employees in Washington, D.C. and the surrounding area. Companies have settled in the area for a practical reason: they are near the government, which makes it easier to get authorizations and licenses for their services. Washington, D.C., ranks as the third-largest high-tech center in the United States, after Silicon Valley and Boston.

based on the possession of necessities and luxuries that make life easier. A free enterprise system also increases people's free time, allowing them to devote more attention to families, hobbies, and recreational activities.

Government Spending

Economic growth benefits government at all levels by enlarging the **tax base**—the incomes and properties that may be taxed. An enlarged tax base increases government revenues, which helps finance the number and quality of public services. The economic growth and resulting budget surpluses of the late 1990s, for example, gave political leaders the option of increasing spending on highways, defense, and some social programs. It also gave them the opportunity to think about reducing tax rates on citizens.

Domestic Problems

Like most countries of the world, the United States faces varying degrees of poverty, inadequate medical care, inequality of opportunity, and economic insecurity. Most of these problems stem from economic need. Economic growth creates more jobs and income for more people, thus helping to alleviate social ills at their source.

Economic growth in the 1990s helped the United States lower its unemployment rate and reduce the number of people on welfare. Also, intense competition among firms for workers drove the industrial wage up.

Helping Other Nations

Economic growth increases American demand for foreign-made products, which helps create jobs and generate income in those countries. These purchases, in turn, enable foreign citizens to buy more goods and services from the United States, which may also create new jobs here. Consumers in the United States and the countries with which it trades benefit from an increased variety of competitively priced goods and services.

Global Role Model

A number of emerging nations are forming their political and economic ideologies. These nations tend to copy the most successful economic systems of other nations. Many people in the United States believe that emerging nations will be best able to help themselves if they adopt a free market system.

In the past, the free world and the communist world each tried to influence the economic development of emerging countries. The competition ended with the fall of communism in Europe and the breakup of the Soviet Union. Successful economic growth in the United States may now help the market economies of all nations to grow.

Factors Influencing Economic Growth

A number of factors are important to economic growth–especially the quantity and quality of the factors of production. Also important is how efficiently these resources are used.

Land

The United States enjoys an abundance of natural resources. Unlike island nations such as Great Britain and Japan, it need not depend heavily on international trade for raw materials. Although some minerals must be imported, the United States is reasonably self-sufficient in many natural resources.

Even so, the United States needs to conserve its natural resources. Many of the natural resources most Americans take for granted-clean air and water, forests, and fertile land-are dwindling rapidly. Only some of these are **renewable resources**,



resources that can be replenished for future use. Reseeding, for example, can restore some-but not all-forests for use in the foreseeable future. Trees such as California redwoods and giant firs require centuries to grow to full size.

Capital

A growing supply of high-quality capital favors overall economic growth because it improves the **capital-to-labor ratio**—the total capital stock divided by the number of workers in the labor force. A high capital-to-labor ratio encourages economic growth because it enables individual workers to produce more than they could otherwise.

Because capital goods result from production, it is possible to influence their creation. The key is saving, and the key to saving is the consumer. When people cut back on consumption in order to save and invest, they free up factors of production to generate new capital.

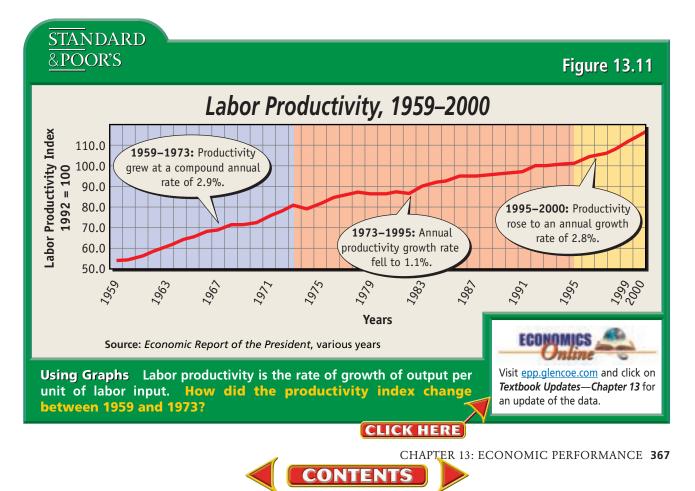
Unfortunately, it is not always possible to reduce consumption so that more can be saved. In some

countries, people are so poor and their incomes so low that they must spend everything they earn just to exist. In these countries, there is very little saving and, therefore, low investment in capital goods. Without capital goods, overall output remains low. People are trapped by circumstances. They are too poor to save, but their incomes can rise only if they have savings to invest in capital goods.

Labor

For any country's economy to grow, it needs a skilled and growing labor force. In general, the size of the labor force is dependent on the size of the population. If the rate of population growth declines, the size of the labor force might also decline. One way to offset a labor shortage is to hire workers from other countries. Another is to encourage new additions to the labor force, such as retirees and people who traditionally have stayed at home.

The American labor force is more educated and skilled today than in the past. In 1970, for example, the median number of school years workers



had completed was 12.1. In 1991, the median number was 12.7. In 2000, it exceeded 13. This means that one-half of the labor force has a high school education plus at least one year of college or its equivalent.

Entrepreneurs

The entrepreneur's role as an agent of change qualifies him or her as being a key to economic growth. A country may possess the other growth potentials, but without entrepreneurs who are willing to innovate and take risks, economic growth is apt to lag.

As a group, entrepreneurs require little more than a business climate that allows them to succeed. Most entrepreneurs would favor a minimum of government regulation and an economic system that allows them to keep much of their profits. One of the most visible and successful entrepreneurial areas today is the Internet, which is affecting the way that virtually every company does business.

Productivity and Growth

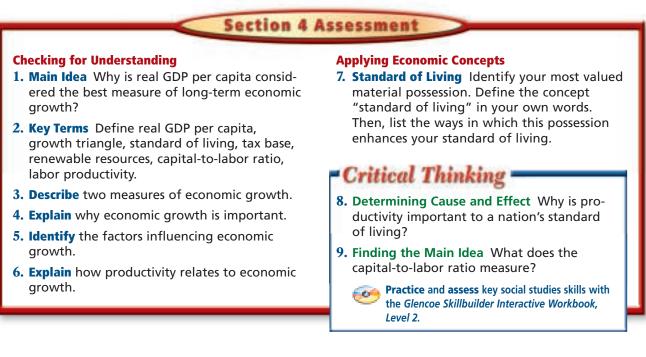
Productivity refers to the efficient use of productive inputs to create goods and services. Without productivity, economic growth is difficult to achieve. The official measure of productivity is **labor productivity**—the amount of output produced per unit of labor input. Productivity goes up when this ratio goes up and down when it goes down.

Figure 13.11 on page 367 traces labor productivity in the U.S. economy since 1959. From 1959 to 1973, the productivity index increased from 54.3 to 80.8, for an annual compound growth rate of 2.9 percent. From 1973 to 1995, however, the productivity rate averaged only 1.1 percent per year.

Productivity rebounded in 1995, reaching an annual compound growth rate of 2.8 percent. As noted in the cover story, part of the increase is due to the personal computer's impact.

When productivity falters, the entire economy suffers. Declining labor productivity can even lead to a rise in the price level, making foreign-made goods cheaper than goods made at home. Eventually, unemployment in domestic industries rises.

When productivity grows, the entire economy benefits. Because people produce relatively more with the same amount of inputs, the prices of goods and services tend to stay low. Domestically produced goods become relatively less expensive than foreign-made ones, so employment at home expands to keep up with increased product demand.



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368 UNIT 4 MACROECONOMICS: POLICIES

Chapter 13 Summary

Section 1

Measuring the Nation's Output

(pages 341-348)

- Gross Domestic Product (GDP) is the most complete measure of total output.
- GDP excludes intermediate goods and secondhand sales, nonmarket activities, and unreported activities in the underground economy.
- **Gross National Product (GNP)** is the measure of the total income received by American citizens, regardless of where their productive resources are located.
- Other measures of income are **net national product**, **national income**, **personal income**, and **disposable personal income**, which appears as the take-home pay on paychecks.
- The four sectors of the macro economy are the consumer, investment, government, and foreign sectors.
- The **output-expenditure model**, GDP = C + I + G + F, is used to show how GDP is consumed by the four sectors of the economy.

Section 2

GDP and Changes in the

Price Level (pages 350–354)

- A **price index** tracks price changes over time and can be used to remove the distortions of inflation from other statistics.
- The price index is computed by dividing the latest prices of the market basket items by the base-year prices and then multiplying by 100.
- Three popular indices are the **consumer price index**, the **producer price index**, and the **implicit GDP price deflator**.
- **Current GDP** is converted to **real GDP**, or constant dollar GDP, by dividing the unadjusted number by the price index and then multiplying by 100.

Section 3

GDP and Population (pages 356–361)

- The annual population growth was more than 3 percent until the Civil War, but it has declined steadily to the point where it is now about 0.9 percent annually.
- The factors that contribute to changing populations are the **fertility rate**, **life expectancy**, and **net immigration**.
- Projections by age and sex show the continuing influence of the baby boom, which will ultimately increase the **dependency ratio**.
- The racial and ethnic mix will change with population gains by Asian Americans, Hispanic Americans, and African

Americans, so that the White component of the population will be a bare majority by the middle of the next century.



Section 4

Economic Growth (pages 363–368)

- Because of changes in population, long-term economic growth is usually measured in terms of **real GDP per capita**.
- Economic growth is important because it raises the **standard of living**, increases the **tax base**, increases employment, and helps the economies of other nations.
- Economic growth requires an ample supply of productive resources, especially entrepreneurs, to organize production and make the economy grow.
- When **labor productivity** is increasing, it helps in raising economic growth and improving living standards.

Chapter 13 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 13—Self-Check Quizzes to prepare for the chapter test.

Identifying Key Terms

Examine the pairs of words below. Then write a sentence explaining what each of the pairs have in common.

- 1. base year, market basket
- 2. Gross National Product, Net National Product
- 3. household, unrelated individuals
- 4. intermediate products, secondhand sales
- 5. underground economy, nonmarket transactions
- 6. consumer price index, producer price index
- 7. real GDP, GDP in constant dollars
- 8. demographer, center of population
- 9. baby boom, population pyramid
- 10. life expectancy, dependency ratio
- 11. standard of living, labor productivity

Reviewing the Facts

Section 1 (pages 341–348)

- **1. Explain** why GDP is an important concept.
- **2. Explain** the steps necessary to convert GDP into GNP.
- **3. Describe** the three main sectors that make up the United States economy.
- **4. Describe** the output-expenditure model.

Section 2 (pages 350–354)

- **5. Explain** why price indices are used.
- **6. Identify** three of the major price indices the federal government calculates.

7. Explain how the government uses the implicit GDP price deflator to convert current GDP to real GDP.

Section 3 (pages 356–361)

- **8. Describe** the historical growth of population in the United States.
- **9. Describe** how the population of the United States is expected to change by the year 2050.

Section 4 (pages 363–368)

- **10. Trace** the record of real economic growth per capita in the United States.
- **11. Name** the factors that are essential for economic growth.
- **12. Describe** the relationship between productivity and economic growth.

Thinking Critically

CONTENTS

- **1. Expressing Problems Clearly** Why is GDP not a proper measure of the total income earned by American citizens?
- 2. Predicting Consequences Suppose that politicians wanted to examine the growth of real output over the last 10 years. What conclusions would they reach if they used GDP measured in current dollars? How would these conclusions be different if they examined GDP measured in real dollars? Use a chart like the one below to help you formulate your answers.

	Conclusions
GDP in Current Dollars	
GDP in Real Dollars	

Chapter 13 Assessment and Activities

3. Synthesizing Information Suppose you were told that you would earn \$75,000 in 2010. Explain why this information would tell you little about the standard of living you might enjoy. What other information would you need to have before you could evaluate how well you could live in 2010?

Applying Economic Concepts

- **1. Economic Growth** Go to the World Wide Web to find a report on GDP. What are the implications of your report for the future of economic growth?
- **2. Nonmarket Transactions** Explain what would happen to GDP if nonmarket transactions were included.
- **3. Life Expectancy** How would an increase in life expectancy affect the rate of population growth in the country?
- **4. Standard of Living** Under what circumstances, if any, do you think you might prefer economic security to a rise in standard of living?

Math Practice

Your uncle has been telling you how cheap gas was back in 1970 when it was \$.35 a gallon. (Assume the price of gas is \$1.30 a gallon today.) You know that the CPI was 38.8 in 1970 and that it is 170.0 today. Show how you would use this information to determine when gas was relatively cheaper.

Thinking Like an Economist

In your own words, explain why greater life expectancies and declining birthrates make some entitlements like Social Security and medicare more difficult to fund.

Technology Skill

Developing Multimedia Presentations For one week, clip articles from newspapers that refer to one of the following:

- consumer expenditures
- business expenditures
- government expenditures exports or imports

On a separate sheet of paper, log the expenditures under one of the four headings. Now imagine you must teach a younger class the differences among the four sectors that make up our economy. Using a camcorder, videotape examples of consumer expenditures, government expenditures, business or investment expenditures, and foreign expenditures (refer to pages 346 through 348 for examples). Explain on camera how all four sectors work together.

Building Skills

Using a Spreadsheet Use the following information to create a spreadsheet and then a bar graph showing real GDP per capita in the United States for four years.

Years	Population	Real GDP in \$Billion
1960	179,323,000	\$2,263
1970	203,302,000	\$3,398
1980	226,542,000	\$4,615
1990	248,710,000	\$6,136

Remember to use the following equation to determine real GDP per capita:

 $\frac{\text{Real GDP}}{\text{Population}} = \text{Real GDP per capita}$

You may find your calculations will be easier if you change GDP from billions of dollars to millions. When you complete your calculations, input the information onto a spreadsheet, then convert the numbers to a bar graph. Print out your completed graph.

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CONTENTS

Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook*, *Level 2.*

ECONOMICS WORKSHOP IN ACTION

Using Factors of Production

From the classroom of . . . Linda Morrell Rancocas Valley Regional High School Mount Holly, New Jersey

One of the principle goals of an economic system is efficiency. How do we achieve efficiency in production? One key is operational innovation. This includes improving the methods of organizing production in order to reduce costs, improve quality, and meet the demands of the customers.

Setting Up the Workshop

In this workshop, you will experiment with a process that you design to produce paper baskets. You will produce as many baskets as you can, decorated as attractively as possible, within a period of 10 minutes.

Your teacher will provide you with one ruler, one stapler, three colored markers, and a supply of paper. These are your **capital goods**, the tools and equipment you will use to produce the baskets. Before you begin, decide on the design. Read the procedures that follow. Your teacher will tell you when to begin your production process and when to stop.

You are to work individually. Do not communicate with other students. The member of your class who makes the most will have the highest productivity. Only those products that are completed (finished goods) will be counted. Products that were started but not yet completed (goods in process) will count against your productivity (one less for each good in process). Your teacher or a student volunteer your teacher selects will serve as the quality control inspector, who will inspect the baskets and reject any that are not of acceptable quality.

Procedures

STEP 1

Divide, then cut, each sheet of paper into four equal strips.

STEP 2

Decorate the strips to make an attractive design for the basket.

STEP 3

Staple three of the strips so they make a basket. Use the fourth strip for a basket handle.



STEP 4

After time is called, count the number of baskets you produced and compare your total with that of the other students.

STEP 5

Discuss the results. Discuss what problems occurred due to a scarcity of resources.

STEP 6

Your teacher will place you in a team. Your task is the same as before—create as many baskets as you can. You will have a few minutes to plan your strategy before you begin.

STEP 7

Repeat the 10-minute production period. You are permitted to communicate with your team members as you work.

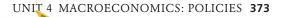
STEP 8

After time is called, do the following:

- Count the number of baskets your group produced.
- Compare your total with the total of the other groups.
- Describe to the other groups the production process you used.

Summary Activity

- 1. Why was the total class output higher when everyone worked in groups?
- 2. Discuss your group's productivity. In what ways could it be increased?
- Devise a statistical measure to gauge the increase in productivity observed in the activity.
- Economists use terms like factors of production and intermediate products when they talk about production. Provide examples of each.
- 5. What is the role of the entrepreneur in the production process?
- 6. What happens to a firm's productivity and its costs of production when efficiency improves? How do improvements in productivity affect the supply of products?



CONTENTS

CHAPTER /

Economic Instability

Economics & You

Do you worry about the future? If you are concerned about getting a job, earning a decent income, or keeping up with inflation, the concept of economic stability is important to you. To learn more about the effects of unemployment and inflation, view the Chapter 21 video lesson:

> Fighting Unemployment, Inflation, and Poverty

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Contents of these Premises in Custody of

United States District Court

CONT

FOT THE

Downturns in the economy result in some businesses failing.

Chapter Overview Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 14—Chapter Overviews* to preview chapter information.

ECONOMICS

CLICK HERE

Business Cycles and Fluctuations

SECTION 1

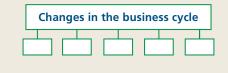
Study Guide

Main Idea

The term "business cycle" refers to alternating increases and decreases in the level of economic activity.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing factors that can cause changes in the business cycle.



Key Terms

business cycle, business fluctuation, recession, peak, trough, expansion, trend line, depression, depression scrip, econometric model, index of leading indicators

Objectives

After studying this section, you will be able to:

- 1. Explain the phases of the business cycle.
- 2. Identify five causes of business cycles.

Applying Economic Concepts

Economic Security Do you have a job and a paycheck on which you depend? Read to find out how economic instability can threaten your income.

Cover Story

Leading Indicators Up Again

A leading indicator of future economic activity slowed somewhat during March but still maintained its forward momentum for the sixth consecutive month, boosting optimism that the nation's economic expansion will continue into the summer months.



Michael Boldin, director of business Growing construction signals robust economy

cycle research at the Conference Board, called the March gain typical of a single month and noted the index's 1.6 percent increase since September generated "a lot of confidence this expansion will continue at a robust pace."

-CNNfn, May 4, 1999

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E conomic growth is something that is beneficial to almost everyone. However, we cannot take economic growth for granted. Sometimes economic growth is interrupted by **business cycles**–largely systematic ups and downs of real GDP. At other times economic growth is interrupted by **business fluctuations**–the rise and fall of real GDP over time in a nonsystematic manner.

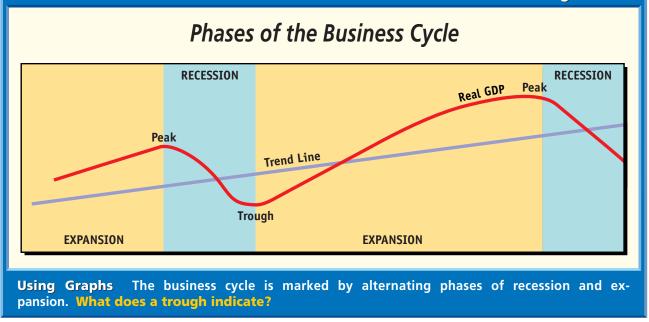
Either way, economic growth-even the recordsetting expansion that took place during the 1990salways comes to a halt before it begins to take off again. The inevitable ups and downs of the economy is one of many reasons why economists have developed tools like the monthly index of leading indicators featured in the cover story.

Business Cycles in the United States

Economic activity in the United States followed an irregular course throughout the twentieth century. The worst and most prolonged downturn was the Great Depression of the 1930s. The years since World War II have taken on a special pattern of their own.

ECONOMICS AT A GLANCE

Figure 14.1



Phases of the Business Cycle

The two phases of the business cycle are illustrated in **Figure 14.1.** The first phase is **recession**, a period during which real GDP declines for two quarters in a row, or six consecutive months. The recession begins when the economy reaches a **peak**—the point where real GDP stops going up. It ends when the economy reaches a **trough**—the turnaround point where real GDP stops going down.

As soon as the declining real GDP bottoms out, the economy moves into the second phase of the cycle, **expansion**—a period of recovery from a recession. Expansion continues until the economy reaches a new peak. If periods of recession and expansion did not occur, the economy would follow a steady growth path called a **trend line**. As **Figure 14.1** shows, the economy departs from, and then returns to, its trend line as it passes through phases of recession and expansion.

If a recession becomes very severe, it may turn into a **depression**–a state of the economy with large numbers of people out of work, acute shortages, and excess capacity in manufacturing plants. Most experts agree that the Great Depression of the 1930s was the only depression the United States has had in the twentieth century.

The Great Depression

The stock market crash on October 29, 1929, or "Black Tuesday," marks the beginning of the Great Depression. Between 1929 and 1933, GDP fell from approximately \$103 to \$55 billion—a decline of nearly 50 percent. At the same time, the number of people out of work rose nearly 800 percent from 1.6 to 12.8 million. During the worst years of the Depression, one out of every four workers was jobless. Even workers who had jobs suffered. The average manufacturing wage, which had reached fifty-five cents an hour by 1929, plunged to five cents an hour by 1933.

Many banks across the country failed. The FDIC did not exist at the time, so depositors were not protected. To prevent panic withdrawals, the federal government declared a "bank holiday" in March of 1933. Every bank in the country closed for several days, and many banks never reopened.



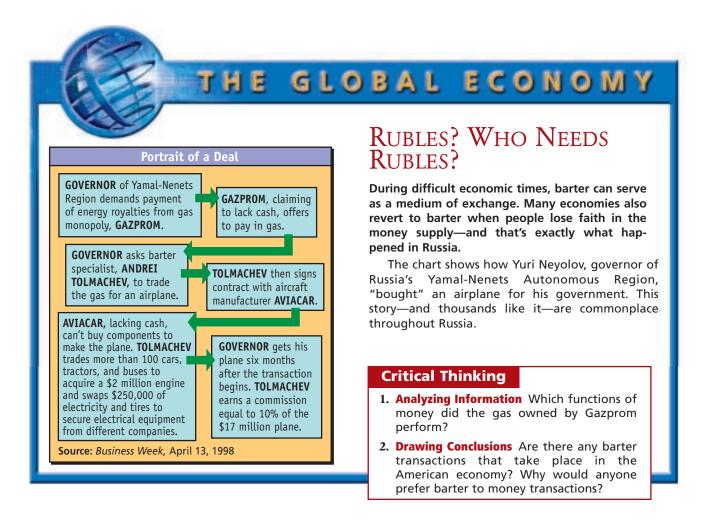
The money supply fell by one-third. Currency was in such short supply that towns, counties, chambers of commerce, and other civic bodies resorted to printing their own money, known as **depression scrip.** Several billion dollars of scrip was used to pay teachers, firefighters, police officers, and other municipal employees.

Causes of the Great Depression

Several factors contributed to the Great Depression. One was the disparity in the distribution of income. A great number of very poor and very rich people lived in America. The poor could not stimulate the economy with consumer spending because they had little or no income. The rich had the income, but often used it for such nonproductive activities as stock market speculation. Easy and plentiful credit also appears to have played a role. Many people borrowed heavily in the late 1920s, which made them vulnerable to credit contractions, high interest rates, and even minor business fluctuations. When the crunch came, heavily indebted people had nothing to fall back on.

Global economic conditions also played a part. During the 1920s, public and private institutions in the United States made many foreign loans to help support a high level of international trade. Shortly before the Depression began in the United States, the private institutions withdrew many of these loans. Without the loans, some foreign nations could no longer buy American goods, so American exports fell sharply.

At the same time, high American tariffs on imports kept many countries from selling goods to the United States. Many countries that depended



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heavily on sales to the United States were soon faced with economic crises. As the Depression spread from country to country, world trade declined, and American exports dropped even further.

Business Cycles Since World War II

Massive government spending during World War II added a huge stimulant to the economy for most of the early 1940s. Recession returned in 1945, but it did not last. As soon as the war was over, consumers went on a buying binge that stimulated expansion again. The economy experienced several more recessions after that, but each downturn was short compared with the length of the recovery that followed. The average recession lasted about 11 months, while the average expansion lasted 43 months.

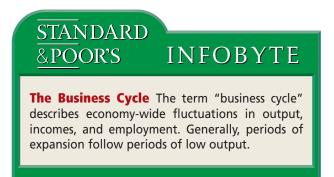
Figure 14.2 shows the recurring pattern of recessions and expansions since 1965. With few exceptions, most of the earlier recessions occurred on a fairly regular basis. After 1980, however, recessions occurred less frequently. The expansion that began in 1991 is the longest expansion in United States history.

Causes of the Business Cycle

No one theory seems to explain past business cycles, or serves as a way to predict future ones. In many cases, several factors are working together to create a cycle.

Capital Expenditures

Changes in capital expenditures are one cause of business cycles. When the economy is expanding,



businesses expect future sales to be high, so they invest heavily in capital goods. Companies may build new plants or buy new equipment to replace older equipment in their plants. After a while, businesses may decide they have expanded enough. They begin to pull back on their capital investments, causing layoffs in the capital goods industries and, eventually, recession results.

Inventory Adjustments

Inventory adjustments, or changes in the level of business inventories, are a second possible cause of business cycles. Some businesses cut back on inventories at the first sign of an economic slowdown and then build them back up again at the first sign of an upturn. Either action causes investment expenditures—and therefore real GDP—to fluctuate.

The influence of inventory adjustments showed up clearly in the business cycle of the late 1940s. Right after World War II, businesses in the United States invested heavily in inventories to fill shelves depleted during the war years. By 1948 consumer demand caught up with the backlog and people stopped buying. Inventories built up on store shelves, so businesses stopped buying inventory. The resulting recession of 1949 lasted for about a year.

Innovation and Imitation

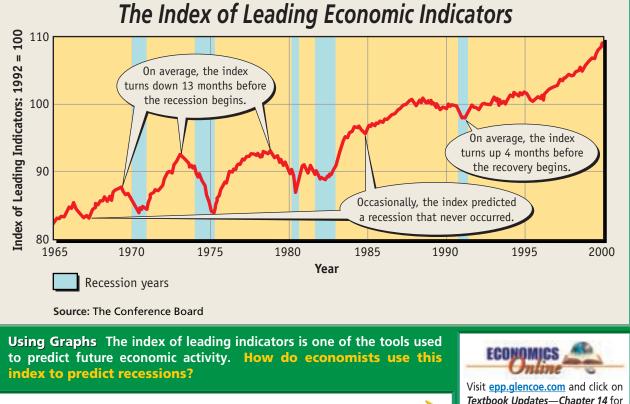
A third possible cause of business cycles is innovation. An innovation may be a new product or a new way of performing a task. When a business innovates, it often gains an edge on its competitors because its costs go down or its sales go up. In either case, profits increase, and the business grows. If other businesses in the same industry want to keep up, they must copy what the innovator has done or come up with something even better.

The imitating companies must invest heavily to do this, and an investment boom follows. After the innovation takes hold in the industry, however, the situation changes. Further investments are unnecessary, and economic activity may slow. Meanwhile, the fluctuation of investments has produced a business cycle.



Figure 14.2

STANDARD &POOR'S



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Textbook Updates—Chapter 14 for an update of the data.

Monetary Factors

A fourth possible cause of business cycles is the credit and loan policies of the Federal Reserve System. When "easy money" policies are in effect, interest rates are low and loans are easy to get. Easy money encourages the private sector to borrow and invest, which stimulates the economy for a short time. Eventually the increased demand for loans causes interest rates to rise, which in turn discourages new borrowers.

As borrowing and spending slow down, the level of economic activity declines. Lenders think twice about making new loans or renewing old ones, and the business cycle begins again.

External Shocks

A final potential cause of business cycles is external shocks, such as increases in oil prices,

wars, and international conflict. Some shocks drive the economy up, as when Great Britain discovered North Sea oil in the 1970s. Other shocks can be negative, as when high oil prices hit the United States in the early 1970s.

Predicting Business Cycles

Economists use a number of methods to predict business cycles. One popular technique involves macroeconomic modeling. Another makes use of statistical predictors.

An econometric model is a macroeconomic model that uses algebraic equations to describe how the economy behaves. Most models used today are based on some adaptation of the output-expenditure model we examined earlier:

$$\mathsf{GDP} = \mathsf{C} + \mathsf{I} + \mathsf{G} + \mathsf{F}$$

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For example, an economist might use X to stand for exports, and M for imports (instead of F for the foreign sector) to get:

$$\mathsf{GDP} = \mathsf{C} + \mathsf{I} + \mathsf{G} + (\mathsf{X} - \mathsf{M})$$

Other equations in the model also may be substituted for some of the variables. Suppose that households annually spend a fixed amount of money, designated as **a**, along with 95 percent of their disposable personal income. In this case, $\mathbf{C} = \mathbf{a} + .95$ (**DI**). If this were substituted for the C in the outputexpenditure model, the equation would read:

GDP = a + .95(DI) + I + G + (X - M)

The equation is then broken down into smaller and smaller components to the point where it may have as many as 1,000 variables.

To predict GDP, forecasters put in the latest figures for the variables on the right side of the equation. Because most econometric models are solved using a computer, little time is needed to obtain a solution.

As the quarter unfolds, actual changes in the economy are compared to the model's predictions. The model is then updated. Some models give reasonably good forecasts for up to nine months. Overall, short-term econometric models have proven their value and are used extensively. Another tool used to predict the turning points of business cycles is the **index of leading indicators**, a monthly statistical series that usually turns down before real GDP turns down, and turns up before real GDP turns up. As we saw in the cover story, the index is widely used to predict the direction of future economic activity.

Some statistical indicators, such as the length of the average workweek—which tends to shrink just before a recession begins—are fairly good predictors of real GDP changes. Still, no single series has proven completely reliable. To resolve this problem, 10 individual series are combined into an overall index that closely patterns the behavior of real GDP, making the index of leading indicators a useful tool.

The behavior of the composite index can be seen in **Figure 14.2**, where the shaded areas represent recessions. As you can see, the average time between a dip in the index and the onset of recession is about 13 months. The average time between a rise in the index and an expansion is about four months. The information it supplies is used along with results from other econometric models. Together, the results generally let the forecaster predict how real GDP will behave in the short run.

Section 1 Assessment

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Checking for Understanding

- **1. Main Idea** Explain the difference between a business cycle and a business fluctuation.
- Key Terms Define business cycle, business fluctuation, recession, peak, trough, expansion, trend line, depression, depression scrip, econometric model, index of leading indicators.
- Identify the two main phases of a business cycle.
- 4. Explain how the Great Depression compared to other recessionary periods.
- 5. List five causes of business cycles.

Applying Economic Concepts

6. Economic Security Suppose you were the head of a household. How would you plan

your spending for your family's needs if you had an accurate prediction of future business cycles? Include examples in your response to the question.

Critical Thinking

7. Understanding Cause and Effect If business inventories are falling, the average hours worked per week is going up, and there is an increase in the number of new building permits, we would expect the economy to be in an expansion phase of the business cycle. Explain why each of these indicators would show that the economy would grow in the near future.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2. Profiles Economics

Championing Economic Freedom: Walter E. Williams

Walter E. Williams is an economist, author, and professor of economics at George Mason University. Williams's views are decidedly free market-and often controversial.

FREEDOM IS KEY

"Economic freedom" is the cornerstone of Williams's beliefs. He argues that economic freedom is the key to both economic growth and the fair distribution of wealth. Williams often points to Hong Kong, Korea, Taiwan, and Singapore as evidence of the spectacular economic growth that can be achieved when there is little government intervention. This has led him to become an outspoken critic of many popular government programs.

Many Americans, for example, support the minimum wage. To Williams, however, it is a cause of economic problems.

One example he cites involves a comparison between unemployment

levels of African American and white teenagers: "In 1948, black teenage unemployment was less than that of whites. Compare it with today and it's the opposite," Williams explains. "You can't explain it by saying there was less racism in 1948 than there is today. You can't explain it by saying that blacks had more education than whites in 1948. You have to explain it by increases in both the level and coverage of the minimum wage law." The implication is that if employers had the freedom to pay lower wages, then more black teenagers would have jobs.

AFFIRMATIVE ACTION

Perhaps Williams's most controversial stand is his opposition to affirmative action. He views it as a violation of his cherished idea of economic freedom, and worse:

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ECONOMIC FREEDOM

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"I think many government programs have harmed blacks in making achievements less credible," he argues. "For example, whatever inspiration Harvard or the University of Virginia has in requiring so many articles in the law journals to be written by women or by minorities reduces the credibility of a black student or a female student having written for the law journal."

Examining the Profile

- **1. Summarizing Information** Write a short paragraph that identifies and describes Williams's basic views.
- 2. Applying the Writing Process Write a response to what Williams said about unemployment levels among white and African American teenagers. Explain why you agree or disagree with his analysis.

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Unemployment

SECTION 2

Study Guide

Main Idea

Frictional, structural, cyclical, seasonal, and technological are the general types of unemployment.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing two ways that structural unemployment takes place.



Key Terms

unemployed, unemployment rate, frictional unemployment, structural unemployment,

cyclical unemployment, seasonal unemployment, technological unemployment, automation

Objectives

After studying this section, you will be able to:

- Explain how the Bureau of Labor Statistics determines if a person is employed.
- 2. Describe five kinds of unemployment.

Applying Economic Concepts

Employment Did you work for at least one hour per week for pay or profit last month? Read to find out how your answer to this question determines your employment status.

Cover Story

Joblessness Dips to 4.2%

The nation's unemployment rate plunged to a 29-year low in March, while the number of jobs created fell to the lowest level in three years, the Labor Department said Friday.

The monthly employment report, among the most closely watched economic indicators, surprised

analysts.... The last time joblessness hit 4.2 percent was February, 1970. Richard Nixon led the country, a war raged in Vietnam, and the first man had recently walked on the moon.

-CNNfn, April 2, 1999



The unemployment rate is the percentage of the labor force that is out of work. early one-half of the population of the United States belongs to the civilian labor force, and at any given time millions of these people are without jobs. This issue is so important that full employment is one of the seven economic and social goals of the American economy.

Measuring Unemployment

To understand the severity of joblessness, we need to know how it is measured, as well as what the measure overlooks. The measure of joblessness is the unemployment rate, one of the most closely watched statistics in the economy.

The Unemployment Rate

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In the middle of any given month, thousands of specialists from the Bureau of the Census begin their monthly survey of about 50,000 households in nearly 2,000 counties, covering all 50 states. Census workers are looking for the **unemployed**—people available for work who made a specific effort to find a job during the past month and who, during the most recent survey week, worked less than one hour for pay or profit. People are also classified as unemployed if they worked in a family business without pay for less than 15 hours a week.

After the Census workers collect their data, they turn it over to the Bureau of Labor Statistics for analysis and publication. This data is then published on a monthly basis.

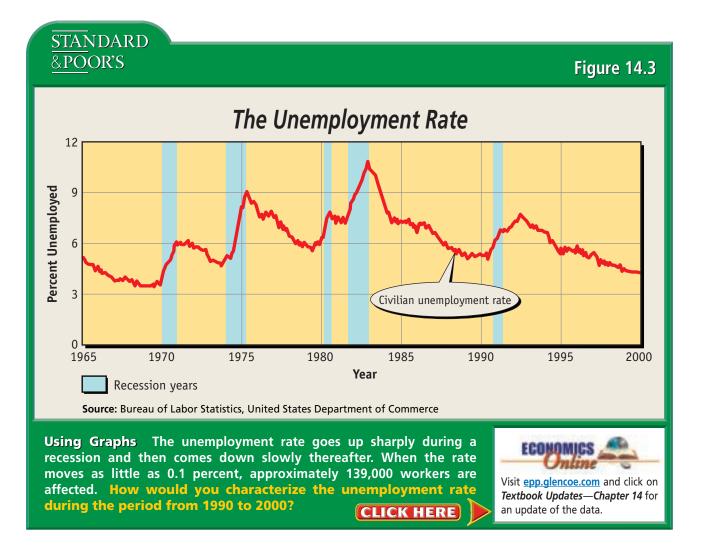
Unemployment also is expressed in terms of the **unemployment rate**, the number of unemployed individuals divided by the total number of persons in the civilian labor force. As **Figure 14.3** shows, the unemployment rate tends to rise dramatically during recessions and then come down slowly afterward. With a civilian labor force of approximately 139 million people, a one-tenth of one percent rise

in the unemployment rate would mean that nearly 139,000 people had lost their jobs. This number is more than the population of cities such as Laredo, Texas; Tallahassee, Florida; Boise, Idaho; or Evansville, Indiana.

Limitations of the Unemployment Rate

It might seem that a measure as comprehensive as the unemployment rate would summarize the problem. If anything, however, the unemployment rate understates employment conditions for two reasons.

First, the unemployment rate does not count those who have become too frustrated or discouraged to look for work. These labor force "dropouts" may include nearly a million people



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during recessionary periods. Although they are not working, these people are not classified as unemployed because they did not try to find a job within the previous four-week period.

Second, people are considered employed even when they hold part-time jobs. Someone who has lost a high-paying job, but is working just one hour a week at a minimum-wage job, would still be considered employed. As a result, being employed is not the same as being fully employed.

Kinds of Unemployment

Economists have identified several different kinds of unemployment. The nature and cause of each affect how much unemployment can be reduced in the economy.

Frictional Unemployment

One kind of unemployment is **frictional unemployment**-unemployment caused by workers who are between jobs for one reason or another. These workers are short-term unemployed and will suffer little economic hardship from their lack of employment. With freedom to choose occupations, many choose to leave their old jobs to look for better work. Others have lost their jobs, but will quickly find others.

Some frictional unemployment is the result of new people moving into the labor force, particularly young workers searching for their first jobs. Unemployment of this nature is a minor problem that cannot be completely eliminated. It is necessary for workers to be able to move to the jobs where they are most needed. Because there are

CYBERNOMICS SPOTLIGHT

Working in the New Economy

For generations, the economy was organized around mass production. Today, the new economy is fast becoming a high-technology, service, and office economy. This does not mean that mass production is no longer important. Higher rates of productivity in manufacturing and farming have resulted in fewer people producing more goods than ever before.

As the shift from a manufacturing to a service and knowledge-based economy continues, the rise of new industries is creating new jobs. In addition, modern technology is changing the nature of many existing jobs, requiring new knowledge and a new set of skills. Now, more than 100 million Americans (nearly 80 percent of the total workforce) work in occupations that are service-related or information-related.

The Virtual Workplace As electronic commerce and Internet business grows, fewer people will work in central offices, retail stores and other facilities. Analysts believe that the virtual workplace, allowing employees to work from any location with a computer and Internet connection, will become more prevalent. Ideally, the virtual workplace makes use of technology and other work innovations to enable employees to work together across space and time. Workers in a virtual workplace require a highly customized set of skills,



More and more people are working at home.

ranging from highly technical specialties to working independently in a network or on a string of virtual teams.

Job Trends Jobs requiring postsecondary, vocational, or higher education are expected to grow as a share of total employment. Positions calling for individuals with at least an associate's degree are expected to increase from 31 percent of all jobs in 1996 to 32.4 percent in 2006. Along with an increase in the number of high-skilled jobs, the number of low-skilled jobs is expected to grow. Occupations predicted to show the largest



always some workers who are in the process of changing jobs, there will always be some frictional unemployment in the economy.

Structural Unemployment

Structural unemployment-unemployment that occurs when a fundamental change in the operations of the economy reduces the demand for workers and their skills-is a more serious type of unemployment.

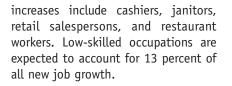
Changes in technology and changes in consumer tastes often cause structural unemployment. Workers are structurally unemployed because their skills and the skills required by employers who are hiring workers do not match. In the early 1900s, for example, people reduced their demand for horses, buggies, and buggy whips in favor of domestic automobiles. Later, tastes changed in favor of foreign-made automobiles, causing considerable unemployment in Michigan, Ohio, and the industrial Northeast.

Industries may also change the way they operate. During the 1990–1991 recession, a series of mergers and cost reductions trimmed the whitecollar labor force in the banking and computer industries. This change was sudden and left millions of highly skilled people out of work. Many of these workers had to develop new skills before they could find employment in other industries.

Sometimes the government contributes to structural unemployment when it changes the way it does business.

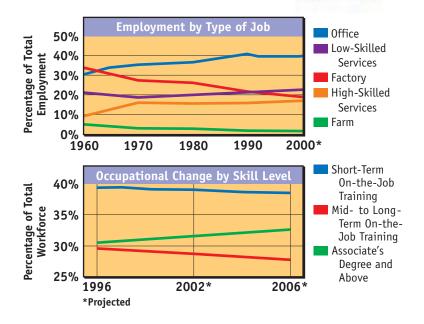
Did You Know?

Job Trends For the next few years, most of the new jobs will be in the services and retail trade industries. By 2005 these industries are expected to account for 16.2 million out of a total projected growth of 16.8 million wage and salary jobs.



Job Skills in the Information Age

A survey of more than 400 of the fastest-growing U.S. firms over a fiveyear period points to the importance of education and training. Over onehalf of the entry-level positions offered by the firms require a high school diploma and often at least two years of post-high school studies. Nearly 40 percent of the firms require a four-year college degree, and an additional 7 percent require completion of postgraduate studies. The companies' CEOs place great importance on math skills. "Mastering challenging mathematics is more important than ever before for our students," noted U.S. Secretary of Education Richard W. Riley. "Algebra is considered a new basic."



Unemployment



Technological Unemployment When technological unemployment occurs, many workers find they have to learn new skills. *What causes technological unemployment?*

Congress's decision to close military bases in the 1990s is a prime example. Military bases are much larger than most private companies, and the impact of the base closings was concentrated in select regions and communities. Some areas were able to attract new industry that hired many of the unemployed workers, but most workers either developed new skills or moved to other regions.

Cyclical Unemployment

A third kind of unemployment is **cyclical unemployment**—unemployment directly related to swings in the business cycle. During a recession, for example, many people put off buying durable goods such as automobiles, refrigerators, washers, dryers, and new homes. As a result, some industries must lay off workers until the economy recovers.

Laid-off workers generally get their jobs back eventually when the economy improves. Accordingly, many try to wait out the recession by living on savings or by taking temporary jobs.

Seasonal Unemployment

A fourth kind of unemployment is **seasonal unemployment**-unemployment resulting from changes in the weather or changes in the demand for certain products. Many carpenters and builders, for example, have less work in the winter than during the spring and summer because some tasks, such as replacing a roof or digging a foundation, are harder to do when the weather is cold.

The difference between seasonal and cyclical unemployment relates to the period of measurement. Cyclical unemployment takes place over the course of the business cycle, which may last three to five years. Seasonal unemployment takes place every year, regardless of the general health of the economy.

Technological Unemployment

A fifth kind of unemployment is **technological unemployment**-unemployment caused when workers with less skills, talent, or education are replaced by machines and other equipment that do their jobs. Technological unemployment happens when workers face the threat of **automation**-production with mechanical or other processes that reduce the need for workers.

In some cases, automation results in a drastic reduction in the number of workers needed for production. Japan, for example, pioneered the use of large mechanized factories. Entire assembly lines in industries such as automobiles and steel are staffed by one-fifth of the workers needed in similar U.S. plants. In the United States, the use of automated teller machines by banks has reduced the need for bank tellers.



Employment Trends Every spring, the unemployment rate slightly rises as college graduates enter the labor force. The high unemployment rates in the mid-1980s were caused in part by the baby boomers who had graduated from college and were entering the work force.

The Concept of Full Employment

Economists have long wrestled with the concept of full employment. Full employment does not mean zero unemployment. Instead, full employment is the lowest possible unemployment rate, with the economy growing and all factors of production being used as efficiently as possible.

While opinions may vary, it appears as if full employment is reached when the unemployment rate drops below 4.5 percent. The 4.2 percent unemployment rate discussed in the cover story, the lowest rate in 29 years, certainly indicates a period of full employment.

Consistently low unemployment is difficult to maintain because of the business cycle. **Figure 14.3** shows that the 1969–1970 recession drove the unemployment rate to 6.1 percent. The 1974 recession drove the rate to 9.0 percent in 1975, and the 1981–1982 recession drove the rate to 10.8 percent. The rate declined thereafter, but the 1991 recession drove it back up to 7.8 percent.

ECONOMICS AT A GLANCE

Figure 14.4

The Fastest-Growing Occupations, 1998–2008

Occuration	Employment		% Increase 1998–2008
Occupation	1998	2008	1990-2000
Computer engineers	299	622	108
Computer support			
specialists	429	869	102
Systems analysts	617	1,194	94
Database administrators	87	155	77
Desktop publishing			
specialists	26	44	73
Paralegals and legal			
assistants	136	220	62
Personal care and home			
health aides	746	1,179	58
Medical assistants	252	398	58
Social and human			
service assistants	268	410	53
Physician assistants	66	98	48

Source: Bureau of Labor Statistics (Number in thousands of jobs)

Using Tables These occupations are projected to be the 10 fastest-growing occupations from 1998 to 2008. Other than technology, in what fields are many of the fastest-growing jobs concentrated?

Section 2 Assessment

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Checking for Understanding

- 1. Main Idea Why is structural unemployment a more difficult problem for the economy and for individual workers than other types of unemployment?
- 2. Key Terms Define unemployed, unemployment rate, frictional unemployment, structural unemployment, cyclical unemployment, seasonal unemployment, technological unemployment, automation.
- **3. Describe** how the government collects monthly data on employment.
- Differentiate between the five major kinds of unemployment.

Applying Economic Concepts

5. Employment Examine the similarities and differences between structural and technological unemployment. Give an example of each. Why are these kinds of unemployment serious problems for an economy?

Critical Thinking

- **6. Drawing Inferences** What factors make it difficult to determine the unemployment rate?
- **7. Categorizing Information** Make a list of three reasons that could cause a person to become a discouraged worker.

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BusinessWeek

DECEMBER 28, 1998

What do laid-off workers have to fear in today's labor market? For those severed after only a year or two on the job especially younger workers—the issue may not be a burning one. But for many of those severed from more permanent jobs, it's compelling.

What Is the Impact of Lay-Offs?

Looking at the 3.1 million workers who were laid off from full-time permanent jobs (held at least three years) from 1995 through 1997, the survey found that in many respects their fates were comparable to those found in [a] 1996 survey for workers laid off in 1993 and 1994. Specifically, in each case about 67% of workers were reemployed at full-time jobs, 14% to 16% were working part-time or at home, and 12% to 14% had dropped out of the labor force.

The main difference was that recent earnings declines were far less pronounced. Whereas 55% of reemployed full-timers in the earlier survey experienced pay drops, and 34% of them suffered cuts of more than 20%, the figures

in the 1998 survey were 38% and 21%, respectively. And the median period between jobs fell from 8.3 to 5 weeks.

In addition, the reemployed full-time contingent's median weekly earnings were up about 2% in the 1998 survey, compared with a 14% decline in the prior survey.

Newsclip



However, all of the recent increases [went to] to younger workers. Those from ages 45 to 64 were still hit with pay declines averaging 10%.

In short, the severe earnings drops suffered by earlier groups of displaced full-time workers have diminished significantly as the expansion has continued. But with only two-thirds of those laid off in recent years back at full-time jobs and nearly 40% of full-timers taking pay cuts, it's clear that many workers—particularly those over 45 continue to suffer considerable economic pain.

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Examining the Newsclip

- 1. Analyzing Information What percentage of workers who were laid off during the period from 1995 through 1997 found new, full-time jobs?
- 2. Analyzing Information What percentage either left the labor force or remained unemployed?
- **3. Drawing Conclusions** What age group faced the most difficulty in obtaining employment? Why do you think this is so?



Study Guide

Main Idea

"Inflation" is a rise in the general level of prices.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by identifying the steps in a wage-price spiral.



Key Terms

price level, deflation, creeping inflation, galloping inflation, hyperinflation

Objectives

After studying this section, you will be able to:

- 1. Explain how inflation is measured.
- 2. Discuss five causes of inflation.
- 3. Analyze the destabilizing consequences of inflation.

Applying Economic Concepts

Inflation Have you ever wondered if you should buy something before the price of the item goes up? Read to find out how inflation changes our spending habits.

Cover Story

Shrinking Labor Pool Raises Fear of Wage Pressures and Higher Prices

Is the number of available but jobless workers in the United States shrinking to the point that employers may be forced to grant inflationary wage increases to attract new employees or keep the ones they have?



Are fewer workers available?

the ones they have: "Should labor markets continue to tighten, significant increases in wages, in excess of productivity growth, will inevitably emerge, absent the unlikely repeal of the law of supply and demand," [Federal Reserve Chairman Alan] Greenspan told Congress.

-The Washington Post, June 25, 1999

nflation is a special kind of economic instability, one that deals with changes in the level of prices rather than the level of employment and output. Even so, as we saw in the cover story, changes in prices, employment, and output are all linked.

Inflation in the United States

To better understand inflation, we must first examine how it is measured. Then we can examine the causes of inflation and its consequences. In order to find inflation, we start with the **price level**, the relative magnitude of prices at one point in time.

Measuring Inflation

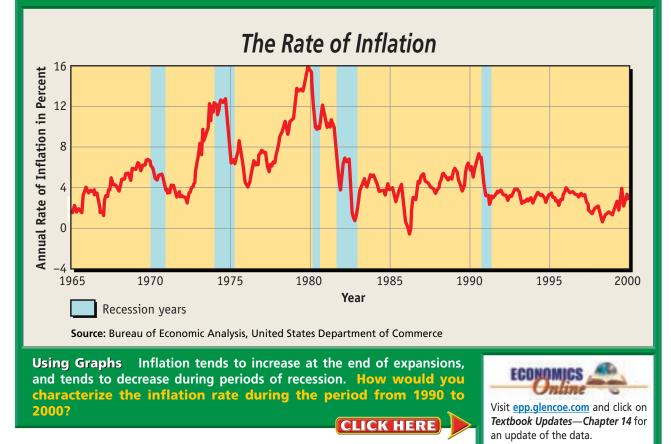
ONTENTS

To measure the price level, economists select a market basket of goods. They then construct a price index such as the consumer price index (CPI), the producer price index, or the implicit GDP price deflator.

Inflation is reported in terms of annual rates of change of the price level. For example, if the CPI at the beginning of one year is 111, and if it reaches 115 by the beginning of the next, inflation would be computed as follows (with

STANDARD &POOR'S

Figure 14.5



everything multiplied by 100 to convert the decimal

inflation rate =
$$\frac{\text{change in price level}}{\text{beginning price level}} \times 100$$

or,

to a percent):

inflation rate =
$$\frac{(115 - 111)}{111} \times 100 = 3.6\%$$

Figure 14.5 shows the rate of inflation from 1965 to the present. As you can see, prices tend to rise faster during expansions and then slow down during recessions.

On rare occasions, unusual circumstances may cause **deflation**, or a decrease in the general price level. Only two significant deflations have taken place in the 1900s. One was during the post–World War I recession of the early 1920s. The other was during the Great Depression of the 1930s.

Degrees of Inflation

Several terms describe the severity of inflation. One is **creeping inflation**—inflation in the range of 1 to 3 percent per year. Another is **galloping inflation**, a more intense form of inflation that can go as high as 100 to 300 percent. Many Latin American countries and many countries in the former communist bloc have experienced rates in this range in recent years. When inflation gets totally out of control, **hyperinflation**—inflation in the range of 500 percent a year and above—occurs. Hyperinflation, however, does not happen very often and generally is the last stage before a total monetary collapse.

The record for hyperinflation was set in Hungary during World War II, when huge amounts of currency were printed to pay the government's bills. By the end of the war, it was claimed that 828 octillion (828,000,000,000,000,000,000,000,000) pengös equaled 1 prewar pengö.



Causes of Inflation

Several explanations have been offered for the causes of inflation. Nearly every period of inflation is due to one of the following causes.

According to demand-pull theory, all sectors in the economy try to buy more goods and services than the economy can produce. As consumers, businesses, and governments converge on stores, shortages occur and prices go up. Thus prices are "pulled up" by excessive demand.

Another explanation involves the federal government's deficit. Basically, this explanation is a variant of the demand-pull theory. While demand-pull blames excess demand on all sectors of the economy, this explanation blames inflation only on the federal government's deficit spending.

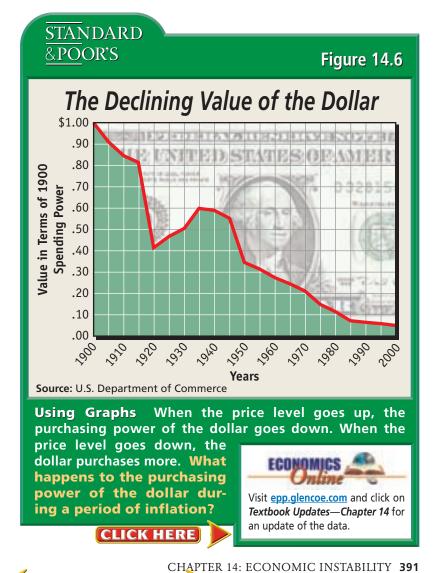
A third explanation claims that rising input costs—especially labor drive up the cost of products for manufacturers and cause inflation. This situation might take place, for example, when a strong national union wins a large wage contract, forcing producers to raise prices to recover the labor costs. Or, as noted in the cover story, labor costs could go up when labor markets are tight and the unemployment rate is exceptionally low.

An unexpected increase in the cost of nonlabor inputs also could cause the price level to rise. Such a price rise occurred during the 1970s when oil prices went from \$5 to \$35 a barrel.

Still another explanation says that no single group is to blame for inflation. According to this view, a self-perpetuating spiral of wages and prices begins that is difficult to stop.

Higher prices force workers to ask for higher wages. If they get the higher wages, producers try to recover that cost with higher prices. As each side tries to increase its relative position with a larger price hike than before, the rate of inflation keeps rising. The final and most popular explanation for inflation is excessive monetary growth. This occurs when the money supply grows faster than real GDP. According to this view, any extra money that is created by the Federal Reserve System will increase some group's purchasing power. When this money is spent, it causes a demand-pull effect that drives up prices.

Advocates of this explanation point out that inflation cannot be maintained without a growing money supply to fuel it. For example, if the price of gas goes up sharply, and if the amount of money people have does not change, then they will simply have to buy less of something else. So, while the price of gas may rise, the prices of other things will fall, leaving the price level unchanged.





Student Web Activity Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on **Chapter 14—Student Web Activities** for an activity on working wth economic statistics.

Consequences of Inflation

Inflation involves more than rapidly rising prices. When inflation is present, it can have a disruptive effect on an economy for several reasons.

The most obvious effect of inflation is that the dollar buys less. Because the purchasing power of the dollar falls as prices rise, a dollar loses value over time. **Figure 14.6** shows how the dollar lost its value as inflation eroded its purchasing power.

Decreased purchasing power is especially hard on retired people with fixed incomes because their money buys a little less each month. Those not on fixed incomes are better able to cope. They can increase their fees to secure additional income.

A second destabilizing effect is that inflation can cause people to change their spending habits, which disrupts the economy. For example, when prices went up in the early 1980s, interest ratesthe price of borrowed money-also went up. This caused spending on durable goods, especially housing and automobiles, to fall dramatically.

To illustrate, suppose that a young couple wanted to borrow \$60,000 over 20 years to buy a house. At an 8 percent interest rate, their monthly mortgage payment would be \$501.86. At 14 percent, the payment would be \$746.11. In 1981 some mortgage rates reached 18 percent, which meant a monthly payment of about \$926 for the same loan! As a result, the housing industry almost collapsed.

A third destabilizing effect of inflation is that it tempts some people to speculate heavily in an attempt to take advantage of a higher price level. People who ordinarily put their money in reasonably safe investments begin buying luxury condominiums, diamonds and gemstones, and other exotic items that might be expected to increase in price.

Finally, inflation alters the distribution of income. During long inflationary periods, lenders are generally hurt more than borrowers. Loans made earlier are repaid later in inflated dollars.

Suppose, for example, that a person borrows money to buy bread that costs fifty cents a loaf. If the amount borrowed was \$100, the person could buy 200 loaves of bread. If inflation set in, and if the price doubled by the time the loan was paid back, the lender would only be able to buy 100 loaves of bread. Inflation in the long run, then, favors debtors over creditors.

Section 3 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** What is the difference between the price level and the rate of inflation?
- **2. Key Terms** Define price level, deflation, creeping inflation, galloping inflation, hyperinflation.
- **3. Describe** how the CPI is used to compute the inflation rate.
- List five explanations for the causes of inflation.
- **5. Identify** four ways inflation destabilizes the economy.

Applying Economic Concepts

6. Inflation What does an inflation rate of 4 percent mean?

Critical Thinking

- 7. Categorizing Information What kind of inflation might be described as "too many dollars chasing too few goods"?
- **8. Understanding Cause and Effect** In 1974 the price of crude oil increased greatly. What type of inflation did this cause?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.



Using the Internet

To learn more about almost any topic imaginable, use the Internet–a global network of computers. Many features, such as E-mail, interactive educational classes, and shopping services are offered on the Net. To get on the Internet, you need three things: (a) a personal computer, (b) a modem (a device that connects your computer to a telephone line), and (c) an account with an Internet Service Provider (ISP). An ISP, such as America Online, is a company that enables you to log on to the Internet, usually for a fee.

Learning the Skill

After you are connected, the easiest way to access Internet sites is to use a "Web browser," a program that lets you view and explore information on the World Wide Web. The Web consists of many documents called "Web sites," each of which has its own address, or Uniform Resource Locator (URL). Many URLs start with the keystrokes *http://*

If you don't know the exact URL of a site, commercial "search engines" such as Yahoo! or AltaVista, can help you find information. Type a subject or name into the "search" box, then press Enter. The search engine lists available sites that may have the information you are looking for.

Practicing the Skill

Follow these steps to learn more about the inflation rate.

- **1.** Log on to the Internet and choose a search engine to use.
- **2.** Search by selecting one of the listed categories or by typing in the subject you want to find, such as "inflation" or "the inflation rate."
- **3.** Continue your search by scrolling down the list that appears on your screen. When you select an entry, click on it to access the information. Sometimes the information you first access will not be exactly what you need. If so, continue

searching until you find the information that you want.

- **4.** If you get "lost" on the Internet, click on the backarrow key at the top of the screen until you find a site that looks familiar.
- **5.** Continue selecting sites until you have enough information to write a short report on inflation trends over the past three months.



Application Activity

CONTENTS

Follow the above procedures to locate information about the population of your state. Use the information you gather to create a chart or graph depicting changes in population from 1960 to the present.

Poverty and the Distribution of Income

SECTION 4

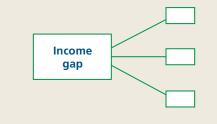
Study Guide

Main Idea

Reasons for income inequality include ability differences, education and training, and discrimination.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing three explanations for a growing income gap.



Key Terms

Lorenz curve, poverty guidelines, welfare, food stamps, Earned Income Tax Credits (EITC), enterprise zone, workfare, negative income tax

Objectives

After studying this section, you will be able to:

- 1. **Explain** how economists measure the distribution of income.
- 2. Discuss the reasons for the inequality of income.
- 3. Discuss antipoverty programs.

Applying Economic Concepts

Distribution of Income Do you compare what you make to the earnings of others? Read to find out more about how income is distributed in the United States.

Cover Story

From Welfare to Work

When United Parcel Service of America started hiring welfare recipients to sort packages 25 years ago, the company had no idea of what it was getting itself into.

What UPS got was a pool of adept employees in it for the long haul.

In fact, of the 10,000 welfare recipients the company has hired since January 1996, the shipping giant estimates about 70 percent stay.



Work-hire program a plus for UPS

70 percent stay. "Our experience has proven that welfare-to-work hires are excellent hires," said . . . a spokeswoman for UPS.

-CNNfn, August 5, 1998

CONTENTS

n the United States, as in other parts of the world, people do not all have the same income. A large number of people live in poverty despite the efforts of programs such as the one featured in the cover story.

The Distribution of Income

To evaluate the distribution of income, the incomes of all families are ranked from highest to lowest. The ranking is then divided into quintiles, or fifths, for examination. The table in **Panel A** of **Figure 14.7** shows family income quintile data for two different years. Only money income is counted; other aid such as food stamps, medicaid, or subsidized housing is excluded. Using a recent year as our example, the percent of income earned by each quintile is added to the lower quintiles and plotted as a Lorenz curve. The **Lorenz curve**–a curve that shows how much the actual distribution of income varies from an equal distribution–appears in **Panel B**. To illustrate, the 3.6 percent of total income received by the lowest quintile is plotted in **Panel B** as point **a.** This amount is combined with the income the next quintile earns and then plotted as point **b.** This process continues until the cumulative values of all quintiles are plotted.

If all families received exactly the same income—so that 40 percent of the families would earn 40 percent of the total income and so on—the Lorenz curve would appear as a diagonal line running from one corner of the graph to the other. Because all families do not receive the same income, however, the Lorenz curve is not a diagonal. As you can see in the figure, the distribution of income recently has become more unequal than it was in 1980.

Reasons for Income Inequality

A number of reasons explain why the incomes of various groups may be different. They include education, wealth, discrimination, ability, and monopoly power.

Education

Some people have higher incomes than others because they have more education. Although exceptions

exist, there is generally a strong relationship between median income and level of education. Education puts people in a better position to get the higherpaying jobs that require a higher level of skills.

Wealth

Income also varies because some people hold more wealth than others—and the distribution of wealth is even more unequal than the distribution of income. When wealth holders are ranked from

ECONOMICS At a glance

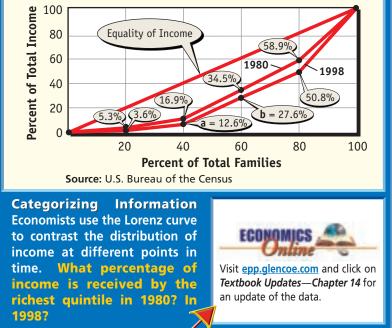
Figure 14.7

The Distributions of Income by Families

A Family Income Ranked by Quintiles

	1980	1998	
	Quintiles	Quintiles	Cumulative
Lowest Fifth	5.3%	3.6%	3.6%
Second Fifth	11.6%	9.0%	12.6%
Third Fifth	17.6%	15.0%	27.6%
Fourth Fifth	24.4%	23.2%	50.8%
Highest Fifth	41.1%	49.2%	100%
Top 5 Percent	14.6%	21.4%	

B The Lorenz Curve



CLICK HERE

CONTENTS

highest to lowest, the top fifth has 75 percent of all the wealth in the country. The bottom two-fifths, which is 40 percent of the people in the country, have less than 2 percent of the total wealth.

This inequality has an impact on people's ability to earn income. Wealthy families can send their children to expensive colleges and universities. The wealthy can also afford to set their children up in businesses where they can earn a better income. Even if the wealthy choose not to work, they can make investments that will bring them income.

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Discrimination

Discrimination is another factor influencing income. Women may not be promoted to executive positions in some companies because male executives simply are not accustomed to women in roles of power. Some unions may deny immigrants or ethnic minorities membership on the grounds that they "don't belong" in the professions.

Although discrimination is illegal, it still takes place. When it does occur, discrimination causes women and minority groups to be crowded into other labor markets where oversupply drives down wages.

Ability

Some people earn more income because they have certain natural abilities, such as professional athletes who sometimes earn millions of dollars every year. Such athletes as Shaquille O'Neal and Anna Kournikova earn high incomes because they have unique abilities or talents. The same is true of popular performers such as Oprah Winfrey, Jim Carrey, and Harrison Ford.

Monopoly Power

Another factor is the degree of monopoly power that some groups hold. Recall from Chapter 8 that unions have been able to obtain higher wages for their members. Some white-collar workers-clerical, business, or professional workers who generally are salaried-also hold a degree of monopoly power. The American Medical Association, for example, has been successful in limiting the number of people in its profession by limiting enrollments in medical schools. More recently, the AMA voted to unionize in order to be in a better position to deal with the health maintenance organizations that employ them.

Poverty

Poverty is a relative measure that depends on prices, the standard of living, and the incomes that others earn. Poverty is a major problem in America—and one that is extremely difficult to resolve. Families and individuals are defined as living in poverty if their incomes fall below certain levels. **Poverty guidelines** are annual dollar amounts used to evaluate the money income that families and unrelated individuals receive. In 1999, poverty was defined as having an income of less than \$16,700 for a family of four.

People in Poverty

Poverty in the United States is more extensive than most people realize. According to recent figures, there are 34.5 million Americans in poverty– or approximately 12.7 percent of the total population.

As **Figure 14.8** shows, even the record economic expansions of the 1980s and 1990s failed to make a significant dent in the percent of Americans living in poverty. In fact, the proportion of the population living in poverty was smaller in the late 1960s and 1970s than it is today.

Of those in poverty, slightly more than twothirds are white and approximately one-quarter are African American. Finally, children of all races make up approximately 40 percent of the people in poverty even though they account for only 26 percent of the total population.

The Growing Income Gap

One reason for the continued high poverty numbers is the growing gap in the distribution of income. According to the Census Bureau, the growing spread that has taken place since 1980 has several causes.

The first involves a structural change in the economy as industry changes from goods production to service production. Because wages are typically lower in the service industries such as fast-food chains, movie theaters, and entertainment parks, weekly paychecks tend to be lower.

The second reason for the spread in income distribution is the growing gap between well-educated and poorly educated workers. During the 1990s, wages for the highly skilled soared, while wages for the less skilled tended to remain about the same.

A third reason-declining unionism (especially among low-skilled workers)-is adding to the growing differential. The decline of unions means that many low-skilled workers have to work elsewhere for less pay.



The fourth reason for the income gap concerns the changing structure of the American family. The shift from two-parent families to single-parent families and other nonfamily household living arrangements tends to lower average family income. All of these factors contribute to the trend of the rich getting richer and the poor getting poorer.

Antipoverty Programs

Over the years, the federal government has instituted a number of programs to help the needy. Most come under the general heading of **welfare**–economic and social programs that provide regular assistance from the government or private agencies because of need.

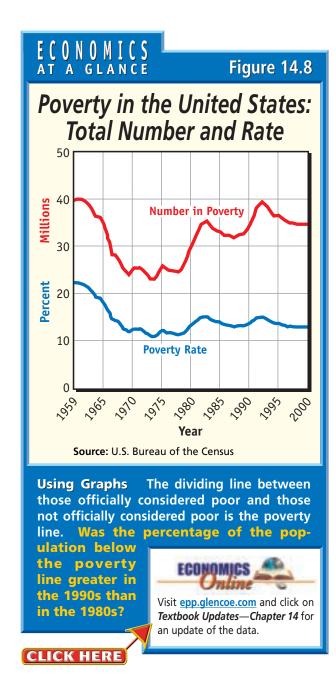
Income Assistance

Programs that provide direct cash assistance to those in need fall into the category of income assistance. One such program is the Temporary Aid to Needy Families (TANF), which replaced the Aid to Families with Dependent Children (AFDC) in 1996. Although provisions and benefits vary from state to state, many families are able to receive cash payments because of the death, continuous absence, or permanent disability of a parent.

Another income assistance program is the Supplemental Security Income (SSI), which makes cash payments to blind or disabled persons age 65 and older. Originally, the states administered the program because benefits varied so much from state to state. The federal government took it over in 1979 to assure more uniform coverage.

General Assistance

Programs that assist poor people but do not provide direct cash assistance fall into the category of general assistance. One example is the food stamp program that serves millions of Americans. **Food stamps** are government-issued coupons that can be redeemed for food. They may be given or sold to eligible low-income persons. If, for example, a person pays 40 cents for a



\$1 food stamp, that person is getting a dollar's worth of food for a fraction of its cost. The program, which began in 1961 and became law in 1964, is different from other programs because eligibility is based solely on income.

Another general assistance program is medicaid– a joint federal-state medical insurance program for low-income people. Under the program, the federal government pays a majority of health-care

costs, and the state governments pay the rest of the cost. Medicaid serves millions of Americans, including children, the visually impaired, and the disabled.

Social Service Programs

Over the years, the individual states have developed a variety of social service programs to help the needy. These include such areas as child abuse prevention, foster care, family planning, job training, child welfare, and day care.

Although the states control the kinds of services the programs provide, the federal government matches part of the cost. To be eligible for matching funds, a state must file an annual service plan. If the plan is approved, the state is free to select social issues it wishes to address, set the eligibility requirements for the programs, and decide how the programs are to be carried out.

Careers



Urban Planners

Most urban and regional planners work for community, county, and city governments.

The Work

Planners develop comprehensive plans for the development and rebuilding of communities. Planners recommend strategies on how to effectively utilize land

and resources to meet the needs of the community. They also take part in decisions about transportation systems, resource development, and protection of the environment. Planners often specialize in a single area such as transportation, demography, housing, or urban design.

Qualifications

Most jobs in government agencies require a master's degree in urban or regional planning or urban design.

Tax Credits

Many working low-income Americans qualify for special tax credits. The most popular is the **Earned Income Tax Credit (EITC)** which provides federal tax credits and sometimes cash to low-income workers. The credit was created in 1975 to partially offset the payroll tax burden on working families. The credit is applied first to federal income taxes, but low-income workers can take the remainder of the credit in cash if the credit is larger than the taxes owed. The credit has proved to be popular, with approximately 20 million working families receiving nearly \$30 billion annually.

Enterprise Zones

Special **enterprise zones** are areas where companies can locate free of some local, state, and federal tax laws and other operating restrictions. Many enterprise zones are established in run-down or depressed areas. This benefits area residents because they can find work without worrying about transportation, thereby helping depressed areas to grow again.

Nearly everyone agrees that a healthy and growing economy helps alleviate poverty. The enterprise zone concept is an attempt to focus some of that growth directly in the areas that need it most, making more employment opportunities available.

Workfare Programs

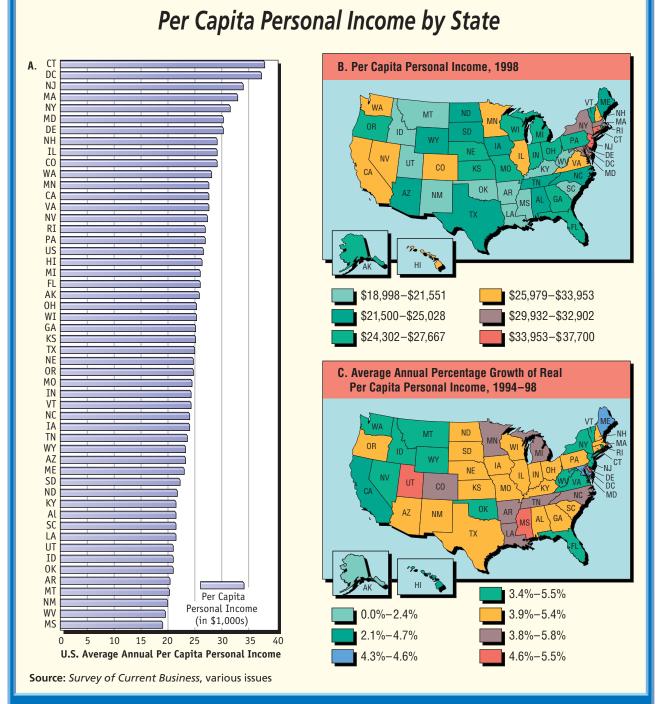
Because of rising welfare costs, many state and local governments require those individuals who receive welfare to provide labor in exchange for benefits. **Workfare** is a program that requires welfare recipients to exchange some of their labor for benefits. People on workfare often assist law enforcement officials or sanitation and highway crews, or perform other types of community service work.

Most states that have workfare programs require almost everyone except for the disabled, the elderly, and those with very young children to work. If the workfare assignments are well designed, then recipients have a valuable opportunity to learn new skills that will eventually help them get other jobs.



ECONOMICS At a glance

Figure 14.9



Using Graphs and Maps Average per capita personal income varies considerably from state to state, ranging from a low of \$18,998 to a high of \$37,700. The average rate of growth, after adjusting for inflation, amounted to 1.48 percent. One state—Alaska—had a negative annual rate of growth from 1990 to 1998. In what range was the per capita personal income in your state?

CHAPTER 14: ECONOMIC INSTABILITY 399

Many welfare-to-work programs, like the UPS program discussed in the cover story, have had promising results. In many cases, companies can even earn federal tax credits when they hire workers directly from the welfare rolls, making the employment a win-win situation for both employer and employee.

Negative Income Tax

The **negative income tax** is a proposed type of tax that would make cash payments to certain groups below the poverty line. These cash payments would take the place of existing welfare programs rather than supplement them. Also, everyone would qualify for the program, not just working people as with the EITC.

Under the negative income tax, the federal government would set an income level below which people would not have to pay taxes. Then, the government would pay a certain amount of money to anyone who earned less than that amount.

For example, suppose that an individual's tax liability was computed using the following formula:

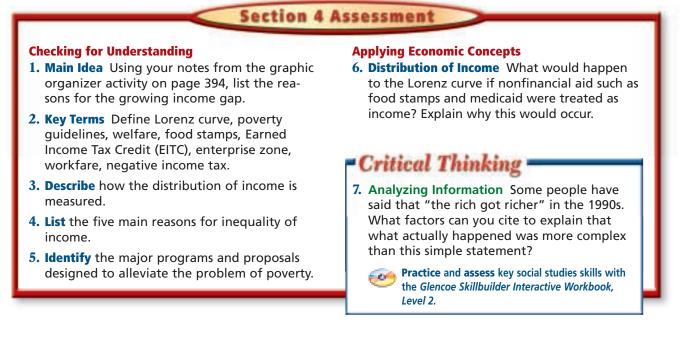
taxes = (25% of income) - \$8,000

Under this formula a person with no income would have a tax of minus \$8,000-which is

another way of saying that the person will *receive* \$8,000 from the government. Or, if the person earned exactly \$12,000, then the person would receive an additional \$5,000 under the formula for a total of \$17,000. Under this formula, a person would have to make \$32,000 before any taxes were actually paid.

The negative income tax is different from other antipoverty programs in two respects. First, it is a market-based program designed to encourage people to work. The object of the negative income tax is to make the minimum payment large enough to be of some assistance, yet small enough to encourage people to work. Then, when people do go to work, the taxes they actually pay need to be small enough so as not to discourage them from working.

Second, the negative income tax would be costeffective because it would take the place of other costly welfare programs. In the end, individuals would have money to spend as they saw fit. Government would also save because it would have fewer welfare programs and administrative costs than it does currently. Although the negative income tax is currently not used, many economists believe it would be a reasonable alternative to the existing welfare structure.



Chapter 14 Summary

Section 1

Business Cycles and Fluctuations

(pages 375-380)

• **Business cycles** are systematic increases and decreases in real GDP; unsystematic changes are **business fluctuations.**



• The two phases of the cycle are **recession** and **expansion**; a **peak** is when the expansion

ends, while a trough is when the recession ends.

- The Great Depression of the 1930s was the worst economic decline in U.S. history; income distribution inequalities, risky credit practices, weak international economic conditions, and tariff wars all contributed to the Depression.
- Several short, mild recessions have occurred since WWII.
- Business cycles are caused by changes in capital and inventory spending by businesses, stimuli supplied by innovations and imitations, monetary factors, and external shocks.
- Econometric models and the index of leading indicators are used to predict changes in future economic activity.

Section 2

Unemployment (pages 382–387)

- Unemployed persons are identified monthly by the Census Bureau. The number of **unemployed** is divided by the civilian labor force to arrive at the unemployment rate.
- The **unemployment rate** does not count dropouts, nor does it distinguish between full- and part-time employment.
- Frictional, structural, cyclical, seasonal, and technological are different forms of unemployment.

Section 3

Inflation (pages 389–392)

- Inflation is the rate of change in the **price level** as measured by the CPI.
- Terms used to describe the severity of inflation are **creeping inflation**, galloping inflation, and hyperinflation.
- Generous credit conditions and excessive growth of the money supply allow demand-pull, deficit spending, cost-push, and wage-price spiral inflation to take place.
- Inflation erodes the value of the dollar, makes life difficult for people on fixed incomes, changes the spending habits of consumers and businesses, and alters the distribution of income in favor of debtors.

Section 4

CONTENTS

Poverty and the Distribution of

Income (pages 394–400)

- The distribution of income is measured by ranking family incomes from lowest to highest and then dividing the ranking into quintiles. The income earned by each quintile is then compared to other quintiles.
- The Lorenz curve shows that incomes are not evenly distributed, and that they are becoming less equal.
- Factors accounting for the unequal distribution of income include educational levels, wealth, discrimination, ability, and monopoly power.
- Poverty is determined by comparing the amount of income earned by families to measures called the **poverty guidelines.**
- The growing income gap is due to the increased importance of the service industry, the widening workers' skills gap, the decline of union influence, and the changing composition of the American family.

Chapter 14 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 14—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Write the letter of the key term that best matches each definition below.

- a. trend line
- b. cyclical unemployment
- c. unemployed
- d. food stamps
- e. frictional unemployment
- f. peak
- g. trough
- h. inflation
- i. Lorenz curve
- j. poverty guidelines
- k. price level
- l. seasonal unemployment
- m. structural unemployment
- n. technological unemployment
- o. recession
- p. workfare
- 1. marks the end of a recession
- **2.** an example of a welfare program
- **3.** annual benchmark used to evaluate the money income that families receive
- **4.** caused by a shift in demand or a change in the way the economy operates
- **5.** caused by annual changes in weather and holiday seasons
- 6. caused by periodic swings in business activity

- **7.** caused by workers who are "between jobs" for short periods
- **8.** describes the requirement that welfare recipients exchange labor for benefits
- **9.** happens when workers face the threat of automation
- **10.** growth path in absence of recession or expansion
- **11.** measured by changes in the CPI
- 12. lowest point of the business cycle
- **13.** measured by the CPI
- **14.** shows how much the actual distribution of income differs from an equal distribution
- **15.** real GDP declines two consecutive quarters
- 16. works less than one hour per week for pay or profit

Reviewing the Facts

Section 1 (pages 375–380)

- 1. **Describe** the Great Depression.
- 2. Distinguish between depressions and recessions.
- **3. Identify** two methods economists use to predict business cycles.

Section 2 (pages 382–387)

- **4. Describe** how the unemployment rate is computed.
- 5. **Identify** the major types of unemployment.
- 6. Explain what is meant by full employment.

Section 3 (pages 389–392)

- **7. Compare** the difference between the price level and inflation.
- 8. **Identify** the five causes of inflation.
- 9. List four destabilizing effects of inflation.

Section 4 (pages 394–400)

- **10. Explain** what is meant by the distribution of income.
- **11. Identify** five major reasons for inequality in the distribution of income.
- **12. Explain** how the Lorenz curve is used to show the inequality of income distribution.
- 13. Name seven antipoverty programs.

Thinking Critically

- **1. Drawing Conclusions** Why is it important to understand the causes of business cycles?
- **2. Analyzing Information** Why might a government statistic about the number of employed people be misleading?
- **3. Understanding Cause and Effect** Explain the effect that inflation has on the financial positions of borrowers and lenders. Use a chart similar to the one below to help you organize your answer. If you managed a bank, what interest rate would you charge to overcome the disadvantage of long-term inflation?



Applying Economic Concepts

- **1. Unemployment rate** If we were to enter a period of recession, what would likely happen to the unemployment rate? The inflation rate? The poverty rate?
- **2. Inflation** Explain why inflation cannot take place without an expansion of the money supply.
- **3. Lorenz curve** Suppose that a new government program reduced the level of poverty in the country. How would this affect the Lorenz curve?

Math Practice

Use the following information to determine real GDP per capita for each of the following years.

Year	Population	Real GDP in \$billion
1960	179,323,000	\$2,263
1970	203,302,000	\$3,398
1980	226,542,000	\$4,615
1990	248,710,000	\$6,136

Thinking Like an Economist

Why is an economist likely to prefer a program like negative income tax over other welfare programs?

Technology Skill

Sending E-Mail Write a topic sentence about income to research. Examples include: "Is income rising above or below the rate of inflation?" "Is there an income gap between men's and women's wages? And if so, "Is the income gap widening?"

Then browse the Internet or call the government to obtain the E-mail address of a federal agency concerned with this issue. E-mail the federal agency, sharing your topic and requesting information.

Building Skills

Using the Internet Search for information on trends in inflation and unemployment rates from the following sites on the Internet: the Census Bureau, the Bureau of Labor Statistics, and the Economic Statistics Briefing Room.

Search for recent articles discussing unemployment, inflation, or poverty. Download at least two recent press releases from each of the above sites. Summarize the articles and share your findings with other members of the class.



CONTENTS

Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook*, *Level 2*.

A Case Study:

IS INCOME INEQUALITY REALLY A PROBLEM?

Not everyone in the United States makes the same amount of money. Some people make a great deal, some make very little, and most make something in between. Economists call this situation, quite simply, income or wage inequality. Others call it the income gap.

An income gap is inevitable in a free market economy. First, the market gives different values to different activities, and second, some people work more than others. So the existence of some income inequality, in and of itself, doesn't generally cause concern.

But some analysts express concern that, if the gap widens, it will be more and more difficult to close. In other words, the rich will get richer and the poor will get poorer.

As you read the selections, ask yourself: Is the income gap a serious economic problem, or are fears about it overblown?

CONTENTS

PROThe Gap is Widening

Income inequality has been worsening in the United States since the early 1970s. Before 1973, all groups enjoyed healthy income gains, particularly the middle class. However, since 1979, the rich have gained far more than the middle class, while the income of the poor has fallen in absolute terms. A recent study found that the richest one percent of families (average annual income: \$800,000 for a family of four) captured 70 percent of the total rise in family income in the United States between 1977 and 1989.

America has always been considered a land of opportunity, where parents believe in the possibility of a "better life" for their children. Does upward mobility mean growing inequality is unimportant, since, with effort and a bit of luck, those at the bottom can still move toward the top?

Not exactly. First of all, we know that historically high rates of mobility in the United States resulted from fast economic growth that was shared across the board. Today, growth benefits the wealthy far more than the middle class, let alone the poor.

ENTERPRISE

Second, although many families do move from one income category to another over time, individuals have suffered larger downward, and smaller upward, income changes since the 1970s—with the exception of the rich, whose earnings have jumped dramatically.

Third, though education has always been seen as the great leveler, it now reinforces initial advantages instead of compensating for initial handicaps. [Schools] no longer effectively make up for deep inequalities among children....

So, if America is to remain the land of opportunity, elementary and secondary education must work for the poor. Otherwise, inequality of income will come to reflect not just differences in motivation, work effort, and sheer luck among players in a fair game, but different rules for rich and poor.

> -Nancy Birdsall, Executive Vice-President, Inter-American Development Bank



That we are rapidly becoming richer is clear. People who deny that equality is increasing are fixated on the recent small increase in income inequality. That increase, the subject of an unceasing journalistic drumbeat, is, [Chris DeMuth, president of American Enterprise Institute] argues, a small incongruity in the longterm "leveling of material circumstances" that has been underway for three centuries and is accelerating.

Since 1700, the average life span in Western societies has doubled. Today material necessitiesfood, shelter-are so universally available that the problem of poverty, understood as material scarcity, has been solved. Poverty, DeMuth notes, now is a problem of individual behavior, social organization and policy, not of society's material scarcities.

Two centuries ago land was the essential source of wealth. One century ago, physical capital was. Today, human capital–knowledge, cognitive skill–is, and such capital is widely distributed by nature and is augmented by universal education. Furthermore, sexual equality has advanced so far that young men and women of comparable education and training now earn essentially equal incomes.

As societies become more wealthy, DeMuth argues, money income becomes a less informative measure of individual welfare, as is demonstrated by this fact: Western democracies have become so wealthy that, for the first time in history, "voluntary reduction in time spent at paid employment has become a major social and economic phenomenon." This reduction appears in expanded education of the young and, even more, in longer retirement of the elderly....

The modern age's expansion of individual autonomy... frees individuals for admirable and improving pursuits—and for unworthy and selfdestructive behavior. With the growth of wealth, freedom and equality has come an equally astounding explosion of social pathologies, from family disintegration and illegitimacy to drug abuse and vulgar popular entertainment....

Citizens are turning their attention, as individuals and as members of civic and religious groups, to the question: What is freedom for? The question is itself among the luxuries of a wealthy, free and equal society.

-George F. Will, Washington Post Writers Group

Analyzing the Issue

- 1. Summarize Birdsall's argument.
- 2. What does Will mean by calling income inequality (quoting DeMuth) "a small incongruity"?
- Will calls America "a wealthy, free and equal society." Considering Birdsall's argument, do you agree? Explain.

The Fed and Monetary Policy

15

Economics & You

CHAPTER

One important requirement of money is that it be worth about the same amount from one year to the next. In **Chapter 15**, you will learn that money must have stability in value to function as it should. To learn more about how the Federal Reserve System controls the money supply, view the Chapter 22 video lesson:

The Federal Reserve System and Monetary Policy





Chapter Overview Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 15—Chapter Overviews* to preview chapter information.

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The Federal Reserve System controls the supply of money in the economy.

The Federal Reserve System

SECTION 1

Study Guide

Main Idea

The Federal Reserve works to strengthen and stabilize the nation's monetary system.

Reading Strategy

Graphic Organizer As you read this section, complete a graphic organizer similar to the one below by listing the components that make up the Federal Reserve System.



Key Terms

member bank, bank holding company, Regulation Z, currency, coins

Objectives

After studying this section, you will be able to:

- 1. Describe the structure of the Federal Reserve System.
- 2. Explain the major regulatory responsibilities of the Fed.

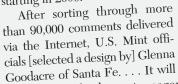
Applying Economic Concepts

Truth-in-Lending Laws Have you or your parents ever bought anything on credit? Read to find out how the Fed influences the type of information you receive from the lender.

Cover Story

Design by Sculptor of Vietnam Women's Memorial Selected for Coin

A rendering of Sacagawea by the New Mexico sculptor who created the Vietnam Women's Memorial will appear in millions of Americans' pockets starting in 2000.





Rendering of Sacagawea used for the coin

depict the Shoshone teenager who accompanied explorers Meriwether Lewis and William Clark to the Pacific Ocean in 1805. . . . Just 16 when she accompanied the explorers, Sacagawea acted as an interpreter and go-between with tribes along the way. . . .

Officials weren't sure Americans would accept the nontraditional look, . . . but Internet responses overwhelmingly favor the mother and child theme and the realistic portrayal.

-CNNInteractive, December 17, 1998

n December 23, 1913, Congress created the Federal Reserve System, or "Fed," as the central bank of the United States. Today, the Fed provides financial services to the government, regulates financial institutions, maintains the payments system, enforces consumer protection laws, and conducts monetary policy. Even the new Sacagawea dollar coin featured in the cover story is warehoused and distributed by the Fed. Because everyone uses money, and because interest rates affect the overall level of economic activity, the Fed's activities affect us all.

Structure of the Fed

Figure 15.1 outlines the main organizational structure of the Federal Reserve System. The Fed's main components have remained practically unchanged since the Great Depression of the 1930s.

Private Ownership

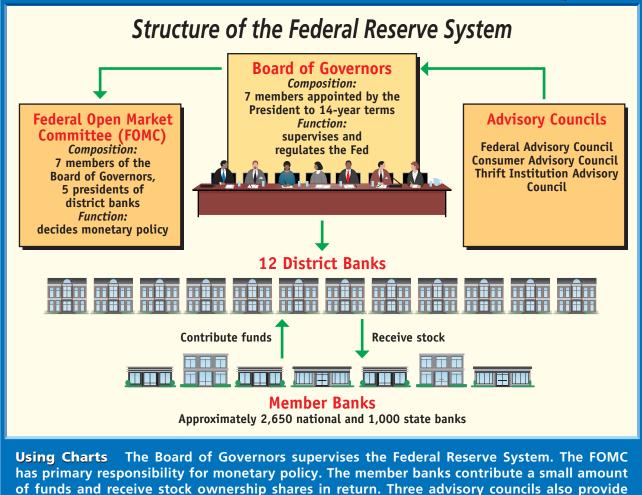
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One of the unique features of the Fed is that it is privately owned by its member bankscommercial banks that are members of, and hold

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ECONOMICS AT A GLANCE

Figure 15.1



direct advice to the Board on a regular basis. What functions does the Board of

stock in, the Fed. When the Fed was established in 1913, it was organized as a corporation that issued shares of stock, just like any other corporation. Individual banks may or may not belong to the Fed. National banks—those chartered by the national government—*must* belong. Those chartered by state governments have the choice to belong or not.

Governors perform?

When privately owned banks joined the Fed, they were required to purchase some of its shares. This made them part owners of the Fed, just as someone might own shares in IBM, Ford Motor, or Microsoft. Only member banks can own shares. Private individuals can only own shares indirectly by owning shares of stock in a Fed-member bank. Today, Fed membership consists of all national banks and some state banks.

Board of Governors

In 1935 Congress established a seven-member Board of Governors for the Federal Reserve System. Each member is appointed by the president and approved by the Senate to serve a 14-year term of office. These appointments are staggered, so that one



appointment becomes vacant every two years. As a result, there are always experienced people on the board.

The Board is primarily a regulatory and supervisory agency. It sets general policies for Federal Reserve and member banks to follow, regulates certain operations of state-chartered member banks, and conducts some aspects of monetary policy. It also makes a report each year to Congress and puts out a monthly bulletin that reports on national and international monetary matters.

Federal Reserve District Banks

When the Fed was established in 1913, it was intended to operate as a system of 12 independent and equally powerful banks. Each reserve bank was responsible for a district, and Federal Reserve notes even carried the name of the district bank on the seal to the left of the portrait. Restructuring minimized, and later eliminated, the Fed's regional nature. The new Fed seal does not incorporate any mention of the district banks.

Today, the 12 Federal Reserve district banks and 25 additional branch banks are strategically located so that they can be near the commercial banks they serve. While each of the 12 banks has its own president and board of directors, the Reserve banks are supervised by the Federal Reserve Board in Washington, D.C. The Federal Reserve banks carry out the same functions for banks and thrift institutions as those institutions carry out for people. The district banks accept the deposits of and make loans to banks and thrift institutions, just as banks perform these functions for the public.

Federal Open Market Committee

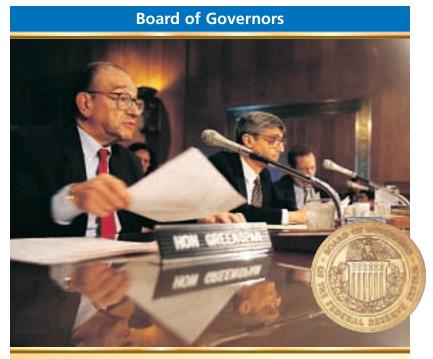
The Federal Open Market Committee (FOMC) makes decisions about the growth of the money supply and the level of interest rates. It has 12 members: seven members from the Board of Governors, the president of the New York district Fed, and four district Federal Reserve bank presidents who serve one-year rotating terms.

The committee meets eight times a year in Washington, D.C., to review the country's economy and to make decisions about the cost and availability of credit. Most decisions are made in private but are announced almost immediately. The FOMC is the Fed's primary monetary policymaking body.

Advisory Committees

The Fed has three advisory committees that advise the Board of Governors directly. The first is the Federal Advisory Council, which consists of representatives from each of the 12 district banks. It provides advice to the Federal Reserve on matters concerning the overall health of the economy.

The second committee is the Consumer Advisory Council. The council's 30 members meet with the Board three times a year on consumer credit laws.



Responsibilities The Board of Governors supervises the entire Federal Reserve System. What role does the Fed play in mergers of member banks?

CHAPTER 15 THE FED AND MONETARY POLICY 409

Members include educators, consumer legal specialists, and representatives from consumer and financial industry groups.

The third advisory group is the Thrift Institutions Advisory Council. On the council are representatives from savings and loan associations, savings banks, and credit unions. It meets with the Board annually to advise on matters pertaining to the thrift industry.

Regulatory Responsibilities

The Federal Reserve System has a broad range of responsibilities ranging from member bank supervision to enforcing consumer legislation.

State Member Banks

All depository institutions—including commercial banks, savings banks, savings institutions, and credit unions—must maintain reserves against their customers' deposits. The Fed is responsible for monitoring the reserves of its state-chartered member banks, while other federal agencies monitor the reserves of nonmember banks and other depository institutions.

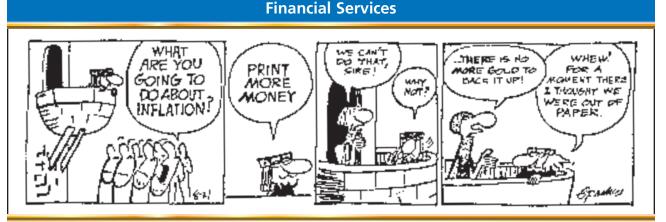
While reserves were originally a matter of prudent banking practice, they fulfill two key roles today. First, the banks use reserves to clear checks. Second, the Fed uses reserves to control the size of the money supply.

Bank Holding Companies

The Fed also has broad legislative authority over **bank holding companies**—corporations that own one or more banks. Holding companies, unlike banks, do not accept deposits or make loans. When individuals buy stock in a bank today, they generally purchase the stock of the holding company, which in turn owns one or more individual banks.

This arrangement may seem unusual, but it can be traced to the many restrictions placed on banks after many of them failed during the Great Depression. At the time, bankers tried to sidestep the restrictions by setting up holding companies that would not be subject to banking laws because they were not banks in the traditional sense. Later, Congress gave the Fed the power to regulate the activities of the holding companies so that they could not evade restrictions.

Today about 6,000 holding companies control approximately 7,000 commercial banks. In many cases, the holding company structure has resulted in even more regulation and supervision. For example, the FDIC may inspect and regulate three nonmember state banks that a single holding company owns, while the Fed regulates the holding company itself.



Managed Money Because nations no longer back their money with gold, they rely on central banks, like the Fed, to manage the amount of money in circulation. *What financial services does the Fed provide to the government*?



International Operations

Foreign banks have a large presence in the economy. Banks from 60 different countries operate about 500 branches and agencies in the United States. In addition, foreign banks own shares of many large United States banks. In all, foreign banks control about 20 percent of all banking assets in the United States.

The Fed has broad authority to supervise and regulate these foreign banks. Branches and agencies of these banks are examined annually, and the Fed even has the power to terminate the domestic operations of foreign banks.

In addition, the Fed authorizes and supervises the international operations of United States member banks and holding companies. Currently, Fed member banks operate about 800 branches in foreign countries.

Member Bank Mergers

A merger of two or more banks requires the approval of the appropriate federal banking authority. If the surviving bank is a state member bank, the Fed must approve the merger.

Other banking authorities approve other mergers. If two national banks merge, the Comptroller of the Currency, a Treasury Department official, must approve the merger. If two nonmember state banks merge, the FDIC must approve the merger.

Other Federal Reserve Services

The Federal Reserve has other responsibilities as well. These include clearing checks, enforcing consumer legislation, maintaining currency and coins, and providing financial services to the government.

One major service the Fed performs is that of clearing checks, a process that makes extensive use of the reserves in the banking system. In general, the deposits that member banks keep with the Fed are shifted from one bank to another, depending on the way checks are written on the member banks.

Figure 15.2 illustrates the check-clearing process. The person in the example writes a \$5 check. As the check is processed through the banking system,

"For credit-card information, pressione; for a current statement, press two, for the bank's present owner, press three." The Fed's Role Mergers are a fact of economic

Bank Mergers

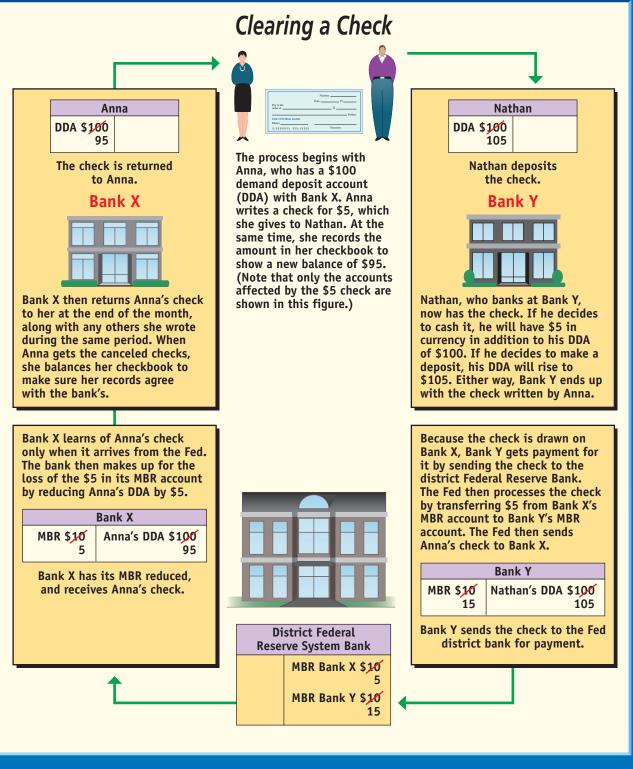
life. What is the Federal Reserve's role in bank mergers?

funds are moved from one member bank's account to another until the check returns to the issuer. The money is then removed from the issuer's checking account.

The Fed clears millions of checks at any given time by using the latest high-speed check-sorting equipment available. In some cases banks gather information from a check when it is deposited, and then transfer the information to computer files. These files are sent to the Fed, which uses the information to adjust member banks' accounts. In this way, the member bank's balance can be adjusted without the check having to go through the entire system.

The Fed is also responsible for some consumer legislation, primarily the federal Truth in Lending Act that requires sellers to make complete and accurate disclosures to people who buy on credit. Under **Regulation Z**, the Fed has the authority to

ECONOMICS At a glance



extend truth-in-lending disclosures to millions of individuals who purchase or borrow from corporations, retail stores, automobile dealers, banks, and lending institutions.

If you buy furniture or a car on credit, for example, you will discover that the seller must explain several items before you make the purchase. These items include the size of the down payment, the number and size of the monthly payments, and the total amount of interest over the life of the loan.

Today's **currency**, the paper component of the money supply, is made up of Federal Reserve notes—fiat paper money issued by Federal Reserve banks and printed at the Bureau of Engraving and Printing. This currency, issued in amounts of \$1, \$2, \$5, \$10, \$20, \$50, and \$100, is distributed to the Fed district banks for storage.

The Bureau of the Mint produces **coins**-metallic forms of money-such as pennies, nickels, dimes, quarters, and the new Sacagawea dollar coin. After the coins are minted, they are shipped to the Fed district banks for storage. When member banks need additional coins or currency, they contact the Fed to fulfill their needs.

When banks come across coins or currency that are mutilated or cannot be used for other reasons, they return it to the Fed for replacement. The Fed then destroys the old money so that it cannot be put back into circulation.



Commercial Banks Commercial banks are the largest financial institutions in the country and are the main sources for exchanging money. The first commercial bank in the United States was founded in 1782 in Philadelphia. Today, commercial banks hold about two-thirds of the nation's money deposits.

One of the Fed's important functions involves the financial services it provides to the federal government and its agencies. For example, the Fed conducts nationwide auctions of Treasury bills, bonds, and notes. It also issues, services, and redeems these securities on behalf of the Treasury. In the process, it maintains the equivalent of numerous demand deposit accounts for the Treasury and clears all checks drawn on those accounts. Other accounts are used to process the tens of millions of dollars of U.S. savings bonds that are sold and redeemed annually.

The Fed also maintains accounts for the IRS, which holds federal taxes paid by individuals and businesses. In fact, any check written to the United States Treasury is deposited in the Fed. Any federal agency check, such as a monthly Social Security payment, comes from accounts held at the Fed. In essence, the Fed serves as the federal government's bank.

Section 1 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** What is the purpose of the Federal Reserve?
- 2. Key Terms Define member bank, bank holding company, Regulation Z, currency, coins.
- 3. Describe the structure of the Fed.
- List eight areas in which the Fed has responsibility.

Applying Economic Concepts

 Truth-in-Lending Laws Visit any local store that sells goods on credit—appliances, cars, or furniture, for example. Ask the owner or manager about the type of information that the store is required to disclose when the sale is made. Obtain copies of the disclosure forms and share them with your classmates.

Critical Thinking

6. Synthesizing Information One of the responsibilities of the Fed is to approve or disapprove mergers between state member banks. Explain how the mergers of two such banks would be classified according to the discussion of mergers in Chapter 3.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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Enormous Power: Alan Greenspan

In some ways, Alan Greenspan is like many other people in government today—a longtime public servant, a respected administrator, and a fiscally conservative theorist with a Ph.D. in economics. What sets him apart, however, is that he is widely regarded as being the second most powerful person in America, after the president.

Greenspan is chairman of the Federal Reserve System's Board of Governors. As such, his views on the economy are closely monitored by almost everyone in the business community.

MOVING MARKETS

In late 1996, when stocks were setting record highs during a bull market, Greenspan asked publicly if prices weren't being propelled by the "irrational exuberance" of investors. The reaction to his remarks was almost instantaneous: investors, fearing that the Fed chairman was about to implement restrictive monetary policies that would drive stock prices down, began to sell. Within hours, stock exchanges around the world lost 2 percent of their value, and the Dow-Jones Industrial Average fell 145 points. Such is the power of Greenspan.

FISCAL CONSERVATISM

Greenspan is a longtime conservative. Early in his career, he was even a staunch advocate of the gold standard, which he saw as a way to assure monetary stability and fiscal responsibility by government. In his career he has worked as an economic consultant to private industry and served on a number of corporate and industry boards. Greenspan served from 1974 to 1977 as chair of the president's Council on Economic Advisors during the Ford administration. From 1981 to 1983, he chaired the National Commission on Social Security Reform, leading

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to the reform of the nation's Social Security system.

Greenspan joined the Fed in 1987 and was appointed chair of the Fed's Board of Governors by Presidents Reagan, Bush, and Clinton. Greenspan continues to be a strong supporter of the free market and an opponent of government intervention in the economy. As the second most powerful person in America, people will continue to scrutinize his every statement.

Examining the Profile

- Synthesizing Information Explain how Greenspan's position as chairman of the Federal Reserve System's Board of Governors makes him extremely influential.
- Evaluating Information Do you think Greenspan has too much power? Explain your answer.

Monetary Policy

SECTION 2

Study Guide

Main Idea

Federal Reserve actions intended to stabilize the economy make up what is called monetary policy.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below.



Key Terms

monetary policy, fractional reserve system, legal reserves, reserve requirement, excess reserves, liabilities, assets, balance sheet, net worth, liquidity, savings account, time deposit, member bank reserve, easy money policy, tight money policy, open market operations, discount rate, margin requirement, moral suasion, selective credit controls

Objectives

After studying this section, you will be able to: **1. Describe** the use of fractional reserves.

Understand the tools used to conduct monetary policy.

Applying Economic Concepts

Fractional Bank Reserves Did you know that most of our money supply exists in the form of intangible computer entries? Read to find out how the fractional reserve system works.

Cover Story

Is the Fed Ready to Hike Rates?

NEW YORK (CNNfn)—If recent reports of unexpected strength in the nation's economy are any indication, the Federal Reserve is likely to raise interest

rates sooner rather than later, analysts said Wednesday.

A rise in short-term rates would follow three rate cuts by the Fed late last year that were intended to insu-



Interest rates on the rise?

late the United States from economic problems in Asia and elsewhere.... By [last fall] Asia's economic woes had spread to Latin America and much of Europe and looked poised to hit the shores of the U.S....

The Fed sprang into action, cutting rates three times, and the rate cuts worked. By January, the U.S. economy was back on track . . . [But now], . . . Fed officials are likely to raise rates. . . .

-CNNfn, June 2, 1999

ONTENTS

ne of the Federal Reserve System's most important responsibilities is that of monetary policy. **Monetary policy** is the expansion or contraction of the money supply in order to influence the cost and the availability of credit. The Fed, as you read in the cover story, does not hesitate to change interest rates whenever the economy's health is threatened.

Monetary policy is a structured process. In order to understand it better, it helps to understand the fractional reserve system that our banking system is based on.

Fractional Bank Reserves

The United States has a **fractional reserve** system, which requires banks and other depository institutions to keep a fraction of their deposits in the form of legal reserves. **Legal** reserves consist of coins and currency that depository institutions hold in their vaults, plus deposits with Federal Reserve district banks. Under this system, banks are subject to a **reserve** requirement, a rule stating that a percentage of every deposit be set aside as legal reserves.

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To illustrate, the banking system today operates with a 12 percent reserve requirement against demand deposit accounts. That means that whenever someone deposits \$100 to open a checking account, \$12 must be set aside as vault cash or kept as a deposit at the Fed. The other \$88 is called **excess reserves**—legal reserves in excess of the reserve requirement. The excess reserves are the funds the bank can lend to others who may want a loan.

How Banks Operate

To understand how a bank operates, it helps to examine the bank's liabilities and assets. Its **liabilities** are the debts and obligations to others. Its **assets** are the properties, possessions, and claims on others. Liabilities and assets generally are put together in the form of a **balance sheet**—a condensed statement showing all assets and liabilities at a given time. The balance sheet also reflects **net worth**—the excess of assets over liabilities, which is a measure of the value of a business.

Organizing a Bank

Suppose someone obtains a charter to start the hypothetical State Bank of Highland Heights. The bank is organized as a corporation, and the owners supply \$20 so that the bank can obtain buildings and furniture before it opens for business. In return for this investment, the owners receive stock, which shows as net worth or equity. **Panel A** in **Figure 15.3** shows how the balance sheet of the bank might look as soon as it is organized.

The balance sheet shows the assets on the left and the liabilities and net worth on the right. To see why



net worth is placed on the right side of the balance sheet, rearrange the definition of net worth from

The balance sheet in the figure is sometimes called a *T-account* because of its appearance, separating the assets from the liabilities and net worth the same way the equal sign does in the above equation. The T-account also works like an equal sign in that the entries on the left must always be equal to the entries on the right.

Accepting Deposits

Suppose that now a customer walks in and opens a checking account with \$100 in currency. This transaction, shown in **Panel B** of **Figure 15.3**, is reflected on the balance sheet in two ways.

First, to indicate that the money is owed to the depositor, the \$100 checking account (or demand deposit) is carried as a liability. Second, to indicate that the cash is the property of the bank, it also appears as an asset on the balance sheet. Actually, the \$100 appears in two places on the asset side—\$90 appears as cash, and \$10 appears as required reserves. The size of the reserve is determined by the reserve requirement, which is assumed to be 10 percent in this example. If the requirement was 15 percent, \$15 would be set aside.

Making Loans

Now that the bank has some cash on hand, it can make loans. Specifically, it is free to loan out \$90 of excess reserves, the cash and currency not needed to fulfill the reserve requirement.

If another person enters the bank and borrows an amount equal to the excess reserves, the \$90 is moved from the cash line to the loans, or accounts receivable, line in the balance sheet. These changes appear in **Panel C.** Note that there is no change in total assets, only in their distribution—a change from a noninterest-earning asset (cash) to an interest-earning one (a consumer loan).

If the bank charged 12 percent interest on the new loan, it would earn 12 percent of \$90, or

ity on the Fed's monetary policy.

\$10.80 each year. This income, along with income earned on other loans, would then be used to pay its officers and employees; its utility bills, taxes, other business expenses; and its stock dividends.

Reaching Maturity

In time, the bank would grow and prosper, diversifying its assets and liabilities in the process. Most of the bank's deposits would eventually return to the community in the form of loans, and some of those loans would return to the bank in the form of new deposits.

The bank might even use some of its excess reserves to buy federal, state, or local bonds and other securities. The bonds and securities are helpful for two reasons. They earn interest and, therefore, are more attractive than cash. They also have a high degree of **liquidity**—the potential to be converted into cash in a very short time. Liquidity adds to the bank's ability to serve its customers. When the demand for loans increases, the bank can sell its bonds and then lend the cash to customers.

The bank also might try to attract additional funds by introducing different kinds of products. One product is a certificate of deposit, a receipt showing that an investor has made an interest-bearing loan to a bank. Most banks also offer **savings accounts** and **time deposits**, interestbearing deposits that cannot be withdrawn by check. The two accounts are similar, except that prior notice must be given to withdraw time deposits, while no prior notice is needed to withdraw savings.

Unless costs are extremely high, the bank should be able to make a

ECONOMICS At a glance

Figure 15.3

Balance Sheet Entries for a Hypothetical Commercial Bank

A When a bank is organized as a corporation, the owners contribute cash used to buy buildings and furniture. In return, the owners receive stock.

Assets		Liabilities + NW	
Required Reserves:		Demand Deposits:	
Cash:		Net Worth or Equity:	\$20
Loans:			4 -0
Bonds:			
Buildings and Furniture:	\$20		
	\$20		\$20

B When a customer opens an account, some of the deposit is set aside as a reserve, while the excess can be loaned out. Note that Net Worth (NW) remains unchanged.

Assets		Liabilities + NW	
Required Reserves:	\$10	Demand Deposits:	\$100
Cash:	\$90	Net Worth or Equity:	\$20
Loans:			+=•
Bonds:			
Buildings and Furniture:	\$20		
	\$120		\$120

C When another person wants to borrow money, the bank can lend all cash in excess of its required reserves.

Assets		Liabilities + NW	
Required Reserves:	\$10	Demand Deposits:	\$100
Cash:		Not Wouth on Fault	¢20
Securities:		Net Worth or Equity:	\$20
Loans:	\$90		
Bonds:			
Buildings and Furniture:	\$20		
	\$120		\$120

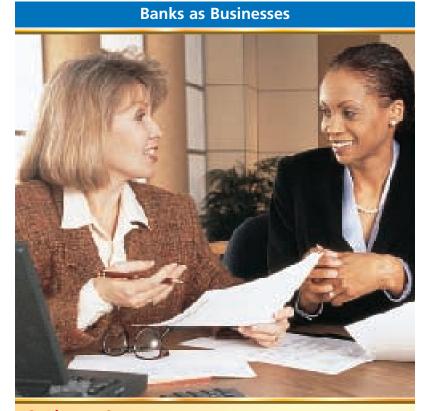
Using Charts The T-accounts for the hypothetical bank trace the receipt of deposits through the loan-generating process. If the reserve requirement was 20 percent, how much could the bank loan?

CONTENTS

profit if it can maintain a 2- to 3-percent spread between the rate it charges on its loans and the rate it pays for borrowed funds in the form of CDs, savings accounts, and time deposits. If a bank pays 6 percent interest on money it receives, for example, it must loan money at a minimum of 8 or 9 percent to make enough income to pay expenses.

Fractional Reserves and Monetary Expansion

The fractional reserve system allows the money supply to grow to several times the size of the reserves the banking system keeps. Figure 15.4 uses a reserve requirement of 20 percent to show how this can happen.



Services to Customers Banks provide a source of loans for individuals and businesses that need to borrow money. Banks also provide safety and interest income for their depositors' money. *What are time deposits*?

Loans and Monetary Growth

In the figure, a depositor named Fred opens a demand deposit account (DDA) on Monday by depositing \$1,000 cash in a bank. By law, \$200 of Fred's deposit must be set aside as a reserve in the form of vault cash or in a **member bank reserve** (**MBR**)–a deposit a member bank keeps at the Fed to satisfy reserve requirements. The remaining \$800 of excess reserves represents the bank's lending power.

On Tuesday, the bank lends its excess reserves of \$800 to Bill. Bill can take the loan either in cash or in the form of a DDA with the bank. If he decides to take the DDA, the money never leaves the bank. Instead, it is treated as a new deposit, and 20 percent, or \$160, is set aside as a reserve. The remaining \$640 are excess reserves that can be lent to someone else.

> On Wednesday, Maria enters the bank and borrows \$640. She, too, can take the loan in cash or a DDA. If she elects to do the latter, the bank has a new \$640 deposit, 20 percent of which must be set aside as a required reserve, leaving \$512 of excess reserves.

> By Wednesday, Fred has a \$1,000 DDA, Bill has an \$800 DDA, and Maria has either \$640 in cash or a \$640 DDA. This amounts to \$2,440 in the hands of the nonbank public by the end of the business day—a process that began on Monday with the \$1,000 deposit. As long as the bank continues to have excess reserves, the lending process can continue.

Reserves and the Money Supply

Because each new loan is smaller than the one before, the money supply will stop growing at some point. A mathematical relationship exists between the dollar amount of reserves, the reserve requirement, and the size of the money supply. For example, if the total dollar amount of



reserves equals 20 percent of the money supply, we could write:

Total Reserves = .20 (Money Supply) or, \$1,000 ÷ .20 = Money Supply Therefore, \$5,000 = Money Supply

This shows that \$1,000 of total reserves, given a 20 percent reserve requirement, will result in a money supply of \$5,000. This amount is the final outcome of the example in **Figure 15.4**, after Fred made his initial deposit.

After the money supply has reached its full size, further changes in the amount of total reserves can still affect it. Using the symbol Δ , meaning *change in*, we see that:

 $\label{eq:linear} \begin{array}{l} \Delta \; \text{Reserves} = \; .20 \; (\Delta \; \text{Money Supply}) \\ & \text{Or,} \\ \Delta \; \text{Reserves} \; \div \; .20 = \Delta \; \text{Money Supply} \end{array}$

Someone, for example, might withdraw \$5 from the bank and keep it permanently in a wallet. The money supply would then change by:

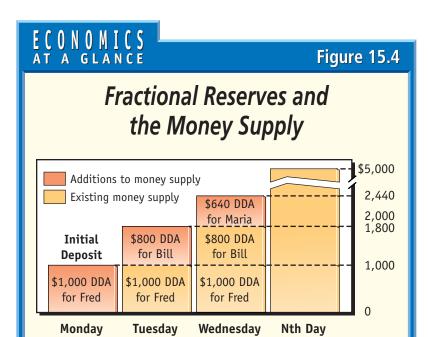
 Δ Reserves \div .20 = Δ Money Supply or, $-\$5 \div .20 = -\25

In other words, the money supply would shrink by \$25, from \$5,000 to \$4,975.

Tools of Monetary Policy

The Fed has three major and two minor tools it can use to conduct monetary policy. Each tool affects the amount of excess reserves in the system, which in turn affects the monetary expansion process described above. The outcome of monetary policy is to influence the cost and availability of credit. The direction of change depends on the objectives of the Federal Reserve System.

Under an **easy money policy**, the Fed allows the money supply to grow and interest rates to fall, which normally stimulates the economy. When interest rates are low, people tend to buy on credit.



Using Charts With a 20 percent reserve requirement, a \$1,000 cash deposit will result in a fivefold expansion of the money supply. To compute the eventual size of the money supply, use the formula below.

Total Reserves + Reserve Requirement = Money Supply or \$1,000 + .20 = \$5,000

If the initial reserves were \$2,000, how large could the money supply get?

This encourages sales at stores and production at factories. Businesses also tend to borrow and then invest in new plants and equipment when money is cheap. Under a **tight money policy**, the Fed restricts the growth of the money supply, which drives interest rates up. When interest rates are high, consumers and businesses borrow and spend less, which slows economic growth.

Reserve Requirement

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The first tool of monetary policy is the reserve requirement. Within limits that Congress sets, the Fed can change this requirement for all checking, time, or savings accounts in the country.

This tool gives the Fed considerable control over the money supply. For instance, suppose the Fed lowers the reserve requirement in the previous example from 20 to 10 percent. More money could be loaned to Bill, Maria, and others, and the money supply could reach \$10,000. If the Fed raises the reserve requirement to 40 percent, however, less money would be loaned, and the money supply would be smaller. The effects of different reserve requirements are shown in **Figure 15.5**.

Historically, the Fed has been reluctant to use the reserve requirement as a policy tool, in part because other monetary policy tools work better. Even so, the reserve requirement can be a very powerful tool should the Fed decide to use it. **Figure 15.6** summarizes the impact of a change in the reserve requirement on the money supply in the manner just described, along with the impact of the other monetary tools described below.

Open Market Operations

The second and most popular tool of monetary policy is **open market operations**—the buying and

selling of government securities in financial markets. Open market operations are one of the methods the Federal Reserve can use to influence short-term interest rates. Open market operations involve the purchase or sale of government securities by the Federal Reserve. When the Fed purchases government securities, it increases the supply of money, putting downward pressure on interest rates. When the Fed sells government securities, it decreases the supply of money, putting upward pressure on interest rates. Open market operations affect the amount of excess reserves in the banking system and, therefore, the ability of banks to support new loans.

Suppose the Fed decides to increase the money supply. To do so, it buys government securities from a dealer who specializes in large-volume transactions of those securities. The Fed pays for the securities by writing a check drawn on itself. The dealer then deposits the check with his or her bank. The bank forwards the check to the Fed for payment. At this

THE GLOBAL ECONOMY

The Euro: Today and in the Future

European industry is transferring to a single currency, the euro. Monetary union means that industries can build plants, sell products, and raise capital in other European markets without worrying about currency fluctuations.

Retooling is costly, however. Most multinational corporations will need to invest millions of dollars. Some are converting their entire operations to the *euro* system immediately. Other companies are instituting the changes in phases. In step 1, for example, companies adapt their computers to bill customers and pay suppliers in euros. At the same time, they will maintain dual accounting in euros and national currencies. Step 2 includes converting transactions such as budget allocations and

payments between subsidiaries into euros. Step 3 includes the changeover of human resource functions, including payroll and benefits and paying taxes in eurodollars.

What does the changeover mean for consumers? The old currency units won't disappear until mid-2002, and many consumers may use them till the last minute. Even if consumers aren't yet using euro notes and coins, their bank accounts, retirement funds, and in many cases paychecks will be expressed in euros.

-Business Week, December 14, 1998

Critical Thinking

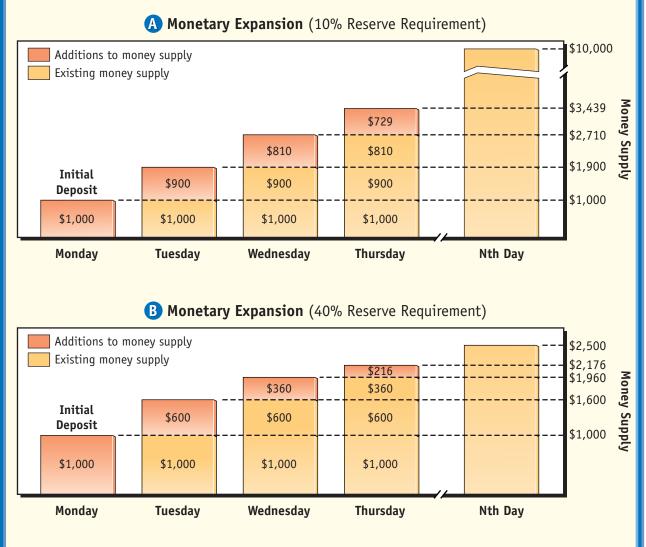
CONTENTS

- 1. Analyzing Information What is the purpose of the euro?
- **2. Sequencing Information** What steps are involved in the transition to the euro?
- **3. Drawing Conclusions** What might be drawbacks that Europe could face during the changeover?



The Reserve Requirement as a Tool of Monetary Policy

ECONOMICS AT A GLANCE



Understanding Percentages If the Fed wants to control the size of the money supply, it can change the reserve requirement. A low requirement, such as 10 percent, can be used to expand the money supply. A higher requirement, such as 40 percent, has the opposite effect.

Low reserve requirement: \$1,000 ÷ .10 = \$10,000

High reserve requirement: \$1,000 ÷ .40 = \$2,500

What is the size of the money supply if the Fed sets the reserve requirement at 25 percent?

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Tools of the Federal Reserve FOX TROT WHAT? THIS ANALYST THINKS SO DAD OFTEN THE POWER OF ALREADY FORGETS TO PAY CONFOUNDING TH/ 5 115AR THE FEDERAL RESERVE INTEREST IE OWES ME WOONOO! MAY HIKE RATES THE WAY ALLOWINGE so? THE EXACT THREE AS MUCH AS A ENTINS OF QUARTER PERCENT MINDE NEXT MONTH. UTS DUE. PENNY

Changes in Interest The most important job of the Federal Reserve System is to maintain a stable supply of money for the economy. The Fed uses several basic tools to carry out this responsibility. *How do changes in the discount rate affect other interest rates*?

point, the Fed "pays" the check by increasing the bank's MBR with the Fed.

The result is that whenever the Fed writes a check, more reserves are pumped into the banking system. Because only some of these additional reserves are needed to back existing deposits, the excess reserves can be loaned out, thus increasing the money supply.

If the Fed wants to contract the money supply, it can sell billions of dollars of government securities back to dealers. Dealers pay for the securities with checks drawn on their own banks. The Fed then processes the checks by reducing the MBRs of dealers' banks. With fewer reserves in the banking system, fewer loans are made and the money supply contracts-driving interest rates up.

The Federal Open Market Committee (FOMC) conducts open-market operations. Normally the FOMC decides if interest rates and monetary growth are too high, too low, or just right. After the committee votes to set targets, officials at the trading desk take over. The trading desk is the physical location at the Fed's New York district bank where the buying and selling actually takes place. The officials at the desk buy and sell bonds daily to maintain the targets set by the FOMC. The desk is permanently located in New York to be close to the nation's financial markets.

Discount Rate

As a central bank, the Fed makes loans to other depository institutions. The **discount rate**—the interest the Fed charges on loans to financial institutions—is the third major tool of monetary policy.

Private individuals and businesses cannot borrow from the Fed. Banks can, and frequently do. If the discount rate goes up, fewer banks will want to borrow from the Fed. This will reduce the amount of money these banks have available to loan to their customers and will force interest rates up. Changes in the discount rate usually result in similar changes in other interest rates.

A bank might obtain a loan from the Fed for two reasons. First, it could have an unexpected drop in its MBRs, which would shrink its excess reserves. In this case, the bank could go to the Fed and arrange a short-term loan to cover the shortfall.

Second, a bank could be faced with seasonal demands for loans. A bank in an agricultural area, for example, might face a heavy demand for loans during the planting season. In that case, it would need additional MBRs to support the loans made in the spring.

Most institutions can borrow from the Federal Reserve, including member and nonmember banks, savings institutions, and even credit unions. The Fed, however, views borrowing as a



privilege rather than a right. As a result, the Fed may limit the number of times a borrower can borrow from the Fed.

Margin Requirements

Before the Great Depression, people speculated wildly in the stock market. Easy credit in the form of **margin requirements**, minimum deposits left with a stockbroker to be used as down payments to buy other securities, made much of the speculation possible.

For example, with a margin requirement as low as 10 percent, a person only had to deposit \$100 with a stockbroker to purchase \$1,000 worth of stocks. The stockbroker would supply the remaining \$900. If the stock rose to \$1,300, it could be sold and the investor would net \$400 after repaying \$900 to the broker. If, however, the stock dropped to \$900, the broker would sell the stock to protect his or her own loan if the investor could not come up with additional money. Because credit was easily obtained and because margins were so low, the margins were easy to forfeit when modest declines in stock prices occurred. In fact, many investors lost everything they had when stock prices crashed in 1929. Today, most margin requirements are set at 50 percent, meaning an investor has to put up at least half the money needed to buy eligible stocks and bonds. The Federal Reserve sets the margin requirement and also monitors activity on the stock market. It also publishes a list of stocks that are eligible for margin loans.

The Fed seldom uses margin requirements as an active tool of monetary policy. Instead, it uses them very selectively to dampen or stimulate spending on equities in the stock market.

Other Tools

The Fed may also use two other methods to control the money supply. These are moral suasion and selective credit controls.

ECONOMICS At a glance

Tool	Fed Action	Effect on Excess Reserves	Money Supply
Reserve Requirement	Lower Raise	Frees excess reserves because fewer are needed to back existing deposits in the system. More reserves are required to back existing deposits. Excess reserves	Expands Contracts
		contract.	
Open Market Operations	Buy bonds Sell bonds	Checks written by the Fed add to excess reserves in the system. Checks written by buyers are subtracted from reserves. Excess reserves in the system contract.	Expands Contracts
Discount Rate	Lower	Additional reserves can be obtained at lower cost. Excess reserves expand.	Expands
Raise		Additional reserves through borrowing are now more expensive. Excess reserves are not added.	Contracts

Summary of Monetary Policy Tools

Using Charts The key to monetary policy is to see how the excess reserves in the system are affected. What happens to the money supply when the Fed increases excess reserves? When it decreases excess reserves?

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Tools of the Federal Reserve



Margin Requirements Depositors besiege a merchant bank in Passaic, New Jersey, following the Wall Street crash in 1929. During the 1920s, the common practice of buying on margin attracted thousands of people to pour their savings into stocks. What are margin requirements? **Moral suasion** is the use of persuasion such as announcements, press releases, articles in newspapers and magazines, and testimony before Congress. Moral suasion works because bankers often try to anticipate changes in monetary policy.

Suppose that the chairperson of the Fed is called before Congress to give his or her view on the state of the economy. Assume also that the chair states that interest rates seem somewhat low, and that it might be good for the economy if they should rise. These statements might lead bankers to expect a tighter money policy in the next few weeks. As a result, they might be less willing to loan their excess reserves, and they might even raise their interest rates by a small amount. In the end, the money supply might contract just slightly, even if the Fed did no more than offer its views.

A second method is **selective credit controls**– credit rules pertaining to loans for specific commodities or purposes. These controls took the form of minimum down payments on cars and other consumer goods during World War II and the Korean War. Selective credit controls during those periods were imposed to free factories to produce war materials.

Section 2 Assessment

Checking for Understanding

- **1. Main Idea** What is the purpose of monetary policy?
- 2. Key Terms Define monetary policy, fractional reserve system, legal reserves, reserve requirement, excess reserves, liabilities, assets, balance sheet, net worth, liquidity, savings account, time deposit, member bank reserve, easy money policy, tight money policy, open market operations, discount rate, margin requirement, moral suasion, selective credit controls.
- **3. Explain** how fractional reserves are used.
- Describe the relationship between the reserve requirement, reserves, and the size of the money supply.
- 5. **Describe** the three major tools of monetary policy.

Applying Economic Concepts

6. Fractional Bank Reserves Your local national bank is required to keep its reserves in the form of vault cash and member deposits with the Fed. Why do you suppose that other assets, such as common stocks or real estate, are not suitable reserves?

Critical Thinking

CONTENTS

7. Drawing Conclusions At times, someone with a good credit rating may not be able to get a loan. When this happens, the potential customer may be told to try again in the near future. What does this tell you about the bank's reserves? How should the customer react to a situation like this?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Business Vee

JULY 20, 1998

Bank mergers are becoming more common. Supporters and nonsupporters of bank mergers debate whether these consolidations benefit customers.

Bank Mergers: Who Benefits?

Although the number of commercial banks in the U.S. fell from 13.123 in 1988 to 9.215 in 1997, there's still no end in sight to the banking industry's rapid consolidation. But is the merger wave beneficial to consumers?

Advocates claim that mergers produce efficiencies that lower costs and thus permit better service to customers. Skeptics worry that mergers allow banks to cut services because they now face less competition. A recent study by Katerina Simons and Joanna Stavins of the Federal Reserve Bank of Boston tends to support the latter view.

Drawing on nationwide data covering some 500 banks from 1985 to 1995, the two economists looked at how market concentration and mergers affected interest rates on customers' deposits. They found that merged banks actually tend to lower deposit rates in the wake of a merger (but only in the first year following the merger). More important, while rivals of newly merged



ONTENTS

Newsclip

banks initially boost interest rates after the merger-presumably to gain customersthey subsequently lower rates even more. Thus, their depositors lose out over the long term.

Why don't the merged banks follow the lead of their unmerged competitors lowering their bv interest rates over the

Ouestions remain as to whether bank mergers benefit or hurt the customer.

long term? The authors speculate that service declines so much after a merger that merged banks have to pay slightly higher interest rates than their rivals to retain customers.

In any case, the study's overall conclusion is that banks tend to pay lower interest rates in markets that become more concentrated. And that, say the authors, is something that antitrust

> regulators need to look at more closely.

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Examining the Newsclip 1. Analyzing Information Describe how advocates and skeptics view mergers between banks. 2. Understanding Cause and Effect How are interest rates on customer deposits

affected by bank mergers?

Monetary Policy, Banking, and the Economy

SECTION 3

Study Guide

Main Idea

Changes in the money supply affect the interest rate, the availability of credit, and the price level.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing the components of M1 and M2.



Key Terms

prime rate, quantity theory of money, monetizing the debt, real rate of interest, M1, M2

Objectives

After studying this section, you will be able to:

- 1. **Explain** how monetary policy affects interest rates in the short run.
- 2. **Relate** monetary expansion to inflation in the long run.
- 3. Identify the two major definitions of money.
- Describe how interest rates are affected by political pressure.

Applying Economic Concepts

Money Where do you keep your money? On your person? In a savings or checking account? Read to find out why the answers to these questions make the definition of money more complicated than it seems.

Cover Story

Fed Worried About Future Inflation

WASHINGTON (AP)—Members of the Federal Reserve expressed concerns about future inflation at their May meeting, leading them to vote unanimously for

a policy directive leaning toward an increase in interest rates, according to minutes of the meeting released Thursday.

While the FOMC members agreed that recent improvements in the nation's produc-



Inflation can affect many goods.

in the nation's productivity allowed more room for noninflationary economic growth, they worried that growth, which came in at a 4.3 percent annual rate in the first quarter, was still too rapid to keep inflation under control. . . .

—The Washington Post, July 1, 1999

he impact of monetary policy on the economy is complex. In the short run, monetary policy affects interest rates and the availability of credit. In the long run, it affects inflation, which—as we saw in the cover story—is one of the Fed's major concerns. In addition, no one can be sure how long it will take for the effects of monetary policy to impact the economy.

Short-Run Impact

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In the short run, an increase or a decrease in the money supply affects the interest rate, which is the price of credit. When the Fed expands the money supply, the cost of credit goes down. When the Fed contracts the money supply, the cost of credit goes up.

This short-run relationship between money and interest rates is shown in **Figure 15.7**. The demand curve for money has the usual shape, which shows that more money will be demanded when the price of credit is low. The supply curve, however, does not have its usual shape. Instead, it is vertical, indicating that the supply of money is fixed at any given time.

Before the market is disturbed, the interest rate, as shown in **Panel A**, is at 10 percent. If the Fed expands the money supply to **S'S'**, the interest rate falls to 8 percent. A contraction of the money supply, as shown in **Panel B**, increases the rate from 10 to 12 percent.

Although the Fed tries to do what it thinks is best for the economy, people do not always agree with its decisions. In 1981, for example, the Fed was criticized for allowing interest rates to get too high. In that year, the **prime rate**—the best or lowest interest rate commercial bankers charge their customers reached 21.5 percent. Critics felt that the economy would have been better off if the Fed had expanded the money supply, thus lowering interest rates. Supporters, however, understood that these policies were necessary to achieve long-run goals.

Long-Run Impact

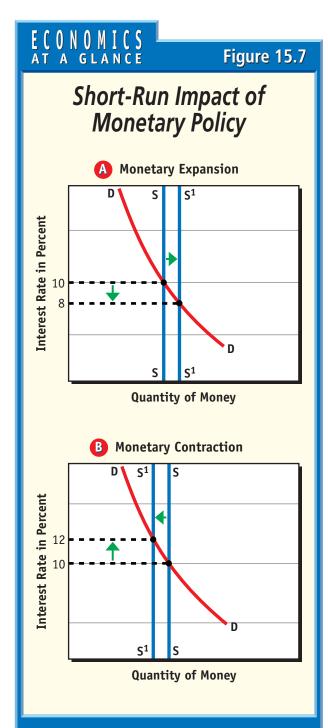
In the long run, changes in the supply of money affect the general level of prices. This relationship, formally known as the **quantity theory of money**, has been demonstrated repeatedly in history.

Historical Precedents

When the Spanish brought gold and silver back to Spain from the Americas in the 1700s, the increase in the money supply started inflation that lasted for 100 years. When the Continental Congress issued \$250 million of currency during the Revolutionary War, the economy suffered severe inflation. A similar thing happened during the Civil War when nearly \$500 million of greenbacks were printed.

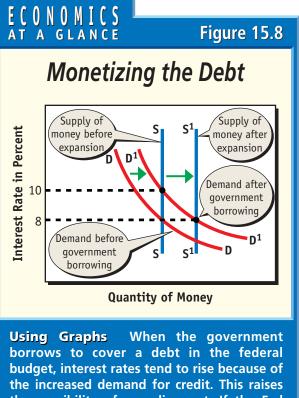
Monetizing the Debt

When the federal government financed the Vietnam War with deficit spending in the 1960s, interest rates started to rise. To keep the rates from going up too high, the Fed decided to **monetize the debt**-create enough extra money to offset the



Using Graphs In the short run, monetary policy impacts interest rates, or the price of credit. When the money supply expands, the price of credit goes down. When the money supply contracts, the price of credit goes up. Why is the supply curve of money, S5, shown as a vertical line?

CONTENTS



the possibility of crowding out. If the Fed expands the money supply just enough to offset the borrowing, interest rates may remain unchanged. What are the long-run effects of monetizing the debt?

deficit spending in order to keep interest rates from changing. The process of monetizing the debt is illustrated in Figure 15.8, where **DD** and **SS** represent the initial demand and supply of money.

Suppose that the government borrows \$25 billion, shifting the demand curve for money from **DD** to **D'D'**. If the Fed does not take any action, the interest rate would rise from 8 to 10 percent. If the Fed wants to keep the interest rate from rising, it could increase the money supply from **SS** to **S'S'** and push interest rates back down to their original level.

In the short run, then, the Fed can increase the money supply just enough to keep the interest rate from rising. This procedure is effective if done infrequently. Repeated short-run attempts to keep rates low, however, result in a long-term expansion of the money supply, making inflation worse.

Taming Inflation

Much of the federal debt was monetized from the late 1960s until the late 1970s. During this period, the money supply grew at rates of 12 percent or more for several years in a row. As inflation worsened, the price of most goods and servicesincluding interest rates—also went up. Attempts by the Fed to keep interest rates low by increasing the supply of money worked at first, but eventually the policy intensified inflation.

By 1980 the Fed realized that it had to choose between interest rates and inflation—and it chose to control inflation by restricting the growth of the money supply. When this happened, the prime rate rose and by 1981 reached 21.5 percent. Most people did not like the high interest rates at the time, but today they recognize that the tight money policies were necessary to bring down inflation.

Because inflation distorts our economic statistics, it is useful to consider the **real rate of interest**—the market rate of interest minus the rate of inflation. To illustrate, the 21.5 percent interest rate in 1981 was not as bad as it seemed when you consider that the inflation rate was 10.5 percent. Subtracting the

STANDARD & POOR'S INF

INFOBYTE

The Prime Rate The prime rate is a loan rate charged by banks to their best or "prime" customers. The rate is determined by general trends in interest rates. As rates decline, the prime rate will also move lower. However, it does not typically move on a day-by-day basis. Prime-rate changes are usually led by major money center banks. Normally, the prime rate will move in steps and then remain constant until a major rate change has been made. This usually happens when the Federal Reserve makes major changes in monetary policy.



inflation rate from the interest rate results in an 11.0 percent real rate of interest for that year.

Other Monetary Policy Issues

When the Fed conducts monetary policy, it has several other issues to consider. The first issue involves the timing and burden of monetary policy.

Timing and Burden

Sometimes a tight money policy will show results in six months. At other times, the impact might not be felt for two years. The same happens when the Fed follows an easy money policy. Such variations in timing make it difficult to use monetary policy to fine-tune the economy.

A second problem is that monetary policy has an uneven impact on the economy. If the Fed follows a tight money policy to control inflation, interest rates go up. This increase hurts some industries like homebuilding and auto manufacturing more than others because of higher borrowing costs. If the Fed follows an easy monetary policy, interest rates may go down—thereby benefiting homebuilding and auto making more than other industries.

Present vs. Future Allocation

The Fed also realizes that interest rates and inflation affect the allocation of scarce resources between present and future uses. When interest rates are low, people find it easier to finance the purchase of a car, house, or college education right away. When people spend more today, however, they end up saving less-and therefore they consume less in the future.

High interest rates have the opposite effect. When rates are high, some purchases are delayed until rates come down or until people have saved enough to buy the products they desire. As a result, people have more money to spend in the future, and so the use of some resources shifts from the present to the future.

Inflation also makes a difference in investment decisions. For example, if people expect prices to go up, they may try to make certain purchases right away, before prices get even higher. Or, if they feel that prices are likely to remain stable or go down, they may put off some spending until later. Either way, expectations about inflation affect the allocation of resources between present and future uses.

Defining Money

With so many financial institutions offering different ways for people to deposit or hold their money, the Fed has had to develop some new definitions to keep track of it.

Figure 15.9 lists a number of components of the money supply, or ways that people have chosen to keep money. The Fed groups these together according to function and gives them names. The first is **M1**, which represents the transactional components of the money supply, or the components of the money supply that most closely match money's role as a medium of exchange. This definition of money includes traveler's checks, coins, currency, demand

Careers

Actuary

Actuaries design insurance and pension plans.

The Work

Actuaries gather and analyze statistics on death, sickness, injury, disability, unemployment, retirement, and property loss. This infor-

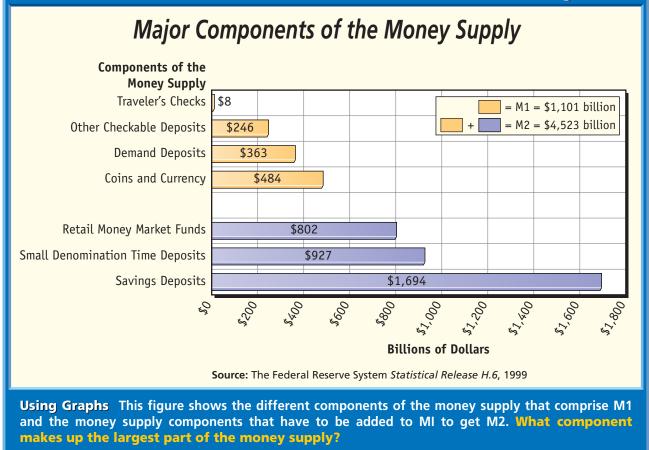
mation is then used to establish how much the insured loss will be. Actuaries calculate premium rates, ensuring that the price of the insurance is high enough to cover any claims and expenses the company might have to pay.

Qualifications

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Actuaries must be knowledgeable in subjects that can affect insurance practices, including general economic, social, health, and legislation trends. Many actuaries hold a degree in mathematics or statistics and they must pass actuarial examinations.

Figure 15.9



deposits, and other checkable deposits such as NOW accounts and credit union share drafts.

ECONOMICS

AT A GLANCE

The simple M1 definition includes only items directly and immediately useable as a medium of exchange. A second and broader definition of money is M2. M2 is a measure of money that includes those components most closely conforming to money's role as a store of value. M2 includes M1, small denomination time deposits, savings deposits, and money market funds.

The Politics of Interest Rates

Because the Fed is privately owned by its member banks, and because the members of the Board of Governors have 14-year terms of office, the Fed is widely regarded as being an independent monetary authority. Even so, the Fed often comes under political pressure because it has the ability to move interest rates one way or the other.

The president or members of Congress up for reelection may call for low interest rates to stimulate the economy. Incumbent politicians know that their reelection chances are better if voters are happy—and voters normally prefer lower interest rates to higher ones.

The president and Congress can gain some influence over monetary policy by appointing new members to the Board of Governors as existing terms expire. After new appointments are made, however, the Board of Governors usually conducts monetary policy as it sees fit.

Sometimes, political leaders have tried to influence monetary policy by criticizing the Fed or by threatening to introduce legislation to make the



Fed less independent. Fortunately, no such laws have been passed.

The Fed is usually reluctant to accommodate demands for lower interest rates in the short term because of the long-run fear of inflation. Unlike many politicians, who frequently focus on interest rates and thereby take a short-term view of monetary policy, the Fed is more concerned about the long-run health of the economy.

People tend to use the interest rate, like the unemployment rate, as a measure of the overall health of the economy. In particular, they think the economy is healthy when interest rates are low, and unhealthy when rates are high. This makes it more difficult for the Fed to raise interest rates, especially during election years when incumbents want voters to think that they are doing a good job with the economy. As a result, the Fed is always conscious of its unique role in the economy and often goes to great lengths to avoid political confrontations that could threaten its independence.



Political Pressure While the president and Congress largely control taxation and spending, they have little control over the Fed. *How can the president and Congress influence monetary policy*?

Section 3 Assessment

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Checking for Understanding

- 1. Main Idea How do changes in the money supply affect the cost of credit?
- **2. Key Terms** Define prime rate, quantity theory of money, monetizing the debt, real rate of interest, M1, M2.
- Describe the short-run impact of monetary policy.
- Explain the long-run impact of monetary policy.
- 5. Describe the two definitions of money.
- 6. Describe the political nature of interest rates.

Applying Economic Concepts

Money Our money supply, as well as the different forms or ways to hold it, has changed considerably over the years. Describe one or two ways you think United States money might change even more in the future.

Critical Thinking

8. Making Generalizations Historically, expansions in money supply have set off inflation. Something similar might have happened to you. Identify a period in your life when you had a little more money than usual. How did you spend the extra cash? Were prices as important to you then as they were at times when you did not have as much to spend? Why do prices tend to increase faster when more money is available?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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CRITICAL THINKING



Making Generalizations

Generalizations are judgments that are usually true, based on the facts at hand. If you say, "We have a great soccer team," you are making a generalization. If you also say that your team is undefeated, you are providing evidence to support your generalization.

Learning the Skill

To make a valid generalization, you must first collect factual information relevant to the topic. Follow these steps:

- Identify the subject matter.
- Gather related facts and examples.
- Identify similarities among these facts.
- Use these similarities to form some general ideas about the subject.

Practicing the Skill

Read the excerpt below, then complete the activity that follows.

Federal Reserve actions that are intended to stabilize the economic system make up what is called monetary policy. The Fed uses open market operations most frequently to carry out monetary policy. For example, if the Fed wanted banks to have more money to lend, it would buy government securities. This would add more money to the expansion process and increase the ability of banks to make loans.

Over the past 50 years, the Fed has had different objectives for its monetary policy. In World War II it tried to keep interest rates low to help the government pay for the war. In the mid-1960s it tried to reduce the amount of money banks had available in



The Fed has a strong say in how banks do business.

order to fight inflation. In the early 1980s, Federal Reserve actions helped force interest rates to very high levels. These high interest rates contributed to the recession of 1981–82, but eventually helped to reduce the high rate of inflation.

Some politicians and economists feel the Fed has made many mistakes. Others feel that it has done a good job most of the time. It is clear at least that the Federal Reserve is an important power in our economic system.

Based on the information presented above, identify whether each of the generalizations stated below is valid.

- 1. Raising interest rates is the Fed's most important goal.
- **2.** There is disagreement over the proper role of the Federal Reserve System.
- **3.** Monetary policy is intended to help keep our economic system from going into a recession or from having inflation.
- **4.** The largest part of spending in this country is done with checks.

Application Activity

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For one week, read the editorials in your local newspaper. Then write a list of generalizations about the newspaper's position on issues such as unemployment or the environment.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Section 1

The Federal Reserve System

(pages 407-413)

- The Federal Reserve System was established as the nation's central bank in 1913.
- The Fed is unique in that it is owned by private **member banks** rather than by the government.



- Today, the Fed regulates financial institutions, maintains the payments system, enforces consumer protection laws, provides services to the government, and conducts monetary policy.
- The Fed supervises its state member banks, and it has broad authority over **bank holding companies**, the international operations of all commercial banks, some mergers, check clearing, consumer truth-inlending laws, and the maintenance of the nation's **currency**.

Section 2

Monetary Policy (pages 415-424)

- Modern banks operate on a **fractional reserve system.** Under this system **excess reserves** can be loaned out to other customers.
- Commercial banks charge interest on their loans and use the income to pay expenses, keeping the remainder as profit.
- The size of the money supply is determined by the **reserve requirement** and the reserves in the system. An increase in the reserve requirement will shrink the money supply. A decrease in the requirement will expand the money supply.

- **Monetary policy** affects the size of the money supply, and therefore the level of interest rates.
- The tools of monetary policy include: a change in the reserve requirement; **open market operations**, which involves the buying and selling of government bonds; and a change in the **discount rate**.
- Two lesser tools include **moral suasion** and **selective credit controls** such as **margin requirements**.

Section 3

Monetary Policy, Banking, and the Economy (pages 426–431)

- Monetary policy affects interest rates in the short run and inflation in the long run-forcing the Fed into a trade-off between lower interest rates today and more inflation later on.
- The impact of monetary policy varies, sometimes affecting the economy sooner, and sometimes later. Monetary policy

also affects some sectors of the economy differently than others.

- The interest rate affects the allocation of resources between present and future uses. Expectations of inflation also affect the allocation of resources between present and future uses.
- The interest rate is one of the most vis-

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ible and politically sensitive prices in the economy. For political reasons, the Fed is often pressured to keep interest rates low, even at the expense of future inflation.

Chapter 15 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at epp.glencoe.com and click on Chapter 15-Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Write the key term that best completes the following sentences.

- a. balance sheet
- **b. Board of Governors**
- c. certificate of deposit
- i. M1 k. M2
- **l.** monetary policy
- d. Regulation Z
- e. easy money policy
- f. excess reserves
- g. FOMC
- h. holding company
- i. legal reserves
- m. monetizing the debt
- n. moral suasion
- o. open market operations **p.** selective credit
- controls
- **1.** The main governing body of the Fed is the _____.
- **2.** A(n) _____ would expand the money supply and tend to lower interest rates.
- **3.** _____ are the funds that banks use to satisfy the reserve requirement.
- 4. If a bank has _____, it is able to make additional loans to customers.
- 5. The most popular and effective tool of monetary policy is that of _____.
- 6. When the Fed increases the money supply to offset the effects of government borrowing, it is _____.
- 7. The transactional component of the money supply is _____.
- 8. One of the most important responsibilities of the Fed is .
- 9. The part of the Fed that buys and sells government bonds as part of monetary policy is the _____.

Reviewing the Facts

Section 1 (pages 407-413)

- **1. Describe** the ownership of the Fed.
- 2. **Identify** the membership of the Board of Governors and the FOMC.
- 3. Identify the most important regulatory responsibilities of the Fed.

Section 2 (pages 415–424)

- 4. Explain how banks operate under a fractional reserve system.
- 5. **Identify** the conditions that enable a bank to make new loans.
- **6. Describe** the three major tools of monetary policy.

Section 3 (pages 426–431)

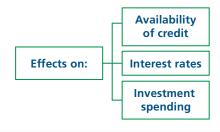
- 7. Identify the major short-run impact of monetary policy.
- **8. Explain** how the long-run impact of monetary policy differs from its short-run impact.
- 9. Explain how M1 differs from M2.
- **10. Explain** why the level of interest rates is politically sensitive.

Thinking Critically

CONTENTS

1. Understanding Cause and Effect What are the effects of the Federal Reserve instituting an easy money policy? Complete a graphic organizer similar to the one below to answer to the question.

Easy Money Policy



Chapter 15 Assessment and Activities

2. Drawing Conclusions Defend or refute the following statement: The independence of the Federal Reserve System is essential to the health of the economy.

Applying Economic Concepts

- 1. Money Ask your parents how they keep their money (CDs, traveler's checks, savings accounts, time deposits, banks, etc.). How many categories mentioned in this chapter do they use?
- **2. Balance Sheet** Make a list of all your assets and all your liabilities. Then, prepare a balance sheet that shows your assets, liabilities, and net worth.

Math Practice

Assume that total reserves in the banking system amount to \$1,000 and that the fractional reserve requirement is 15 percent. If all banks are fully loaned out, and if the Fed sells an additional \$100 of bonds to investors, how large will the money supply be?

Thinking Like an Economist

If the Fed were to expand the money supply, it would face a trade-off between lower interest rates today and higher inflation later on. Explain how an economist would use cost-benefit analysis to examine the implications of these outcomes.

Technology Skill

Using a Database For one week, analyze the currency that comes into your possession. In your journal, keep track of the features that appear on the front and back of each bill, noting the similarities and differences among the various currencies.

Create a database for foreign visitors that describes the specific features and purposes of each United States

bill and coin. Create fields such as the following: portrait, paper/coin, value, Federal Reserve Bank seal, and so on. Arrange the fields and text in an appealing way, including clip art, decorative fonts, and color. Use words that will easily be understood by someone with limited knowledge of the English language, or translate the database into another language if possible. Distribute a copy of your databank to your local visitor's center or Chamber of Commerce.

Building Skills

Making Generalizations Read the following passage and answer the questions.

Although there are effective checks and balances on powers held by the Congress and the president, there are few checks on the monetary power of the Federal Reserve System's Board of Governors. Under current law, the Board is free to act within broad limits established by Congress and the president.

Actions taken by the Fed are important to the success of government economic policy, yet there is no guarantee that members of the Board of Governors will cooperate with Congress and the president in implementing economic plans. Some political leaders have suggested that the powers of the Fed's Board of Governors should be limited, or that the Board should be made responsible to the president.

Supporters of controlling the Fed believe such a policy would assure the country of a unified economic policy. Some argue that it is wrong for people with so much power not to be elected by the people.

Identify each generalization below as valid or invalid based on the information presented.

- 1. Politicians are too slow to act, and therefore monetary power should remain with the Federal Reserve System.
- Some people criticize the Fed because it holds a great deal of power without having to answer to the voters.
- **3.** The powers of the Fed should be limited.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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CHAPTER 16

Achieving Economic Stability

- C - C

Economics & You

One of our nation's most important goals is to create an economic environment favorable to growth and stability. In **Chapter 16**, you will learn about the policies and factors that influence our economic stability. To learn about theories for controlling economic cycles, view the Chapter 23 video lesson:

Economic Growth and Stability



Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 16—Chapter Overviews* to preview chapter information.

The mental and social health of society is an important concern for economists.

CLICK HERE

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The Cost of Economic Instability

SECTION 1

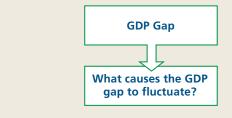
Study Guide

Main Idea

Economic instability leads to social as well as economic problems.

Reading Strategy

Graphic Organizer As you read the section, use a graphic organizer similar to the one below to describe the GDP gap.



Key Terms

stagflation, GDP gap, misery (discomfort) index

Objectives

After studying this section, you will be able to:

- 1. Explain the economic costs of instability.
- 2. Describe the social costs of instability.

Applying Economic Concepts

Misery Index Do you know someone who has suffered from the problems associated with unemployment and inflation at the same time? Many people do, which is why economists have invented a measure called the *misery index*. Read to find out how the misery index got its name.

Cover Story

Inflation Fears Punish Dow

NEW YORK (CNNfn)—U.S. stocks opened with a tumble Friday after one of the market's worst fears materialized—inflation at the consumer level posted

its biggest increase in more than eight years in April.

At around 10 A.M. the Dow-Jones Industrial Average lost 128.58, or 1.1 percent, to 10,987.61 as investors exited the market in droves amid surging bond yields and intensifying speculation that official interest rates could soon head higher as well.



Instability can affect the stock market.

as wen. Losers overwhelmed gainers on the New York Stock Exchange, with 2,035 stocks falling and 435 rising....

-CNNfn, May 14, 1999

ONTENTS

R ecession, high unemployment, and inflation are forms of economic instability that hinder long-term economic growth. Sometimes the economy experiences these problems separately, and sometimes they occur at the same time. In the early 1970s, for example, the economy experienced stagflation—a period of stagnant growth combined with inflation.

Even when the economy is relatively healthy, or when there is a hint of problems on the horizon, as you just saw in the cover story, we still worry about inflation—and even our worries have real consequences. These fears are not unfounded, because economic instability carries an enormous cost—one that can be measured in human as well as economic terms.

The Economic Costs

On one level, unemployment and inflation are simply numbers that are collected, reported in the press, or plotted on a graph. At another level, they represent enormous economic failures that waste the resources of the nation and its people.

ECONOMICS AT A GLANCE Figure 16.1 The GDP Gap and the **Production** Possibilities Frontier as 15 guns and approximately 130 units of butter 110 not produced, or . . 100 The GDP gap 90 **Quantity of Guns** can be expressed 80 as 35 guns not produced, or . 70 60 50 а 40 30 as 200 units 20 of butter not produced 10 800 0 700 200 300 400 500 600 900 00 Quantity of Butter Using Graphs The GDP gap is the differ-

Using Graphs The GDP gap is the difference between the actual production at point a and the potential production as indicated by points b, c, or d. What happens to production when some resources are idle or are not employed efficiently?

The GDP Gap

One measure of the cost of stagnation is the **GDP gap**—the difference between the actual GDP and the potential GDP that could be produced if all resources were fully employed. In other words, the gap is a type of opportunity cost—a measure of output not produced because of unemployed resources.

The GDP gap, illustrated in **Figure 16.1**, shows the production possibilities curve in the classic guns-versus-butter example. Note that the output not produced because of resources that lie idle can be measured in either guns, butter, or a combination of the two items. In a more dynamic sense, business cycles or fluctuations cause the size of this gap to vary over time. The scale of GDP is such that if GDP declines even a fraction of a percentage point, the amount of lost production and income can be enormous.

In 1999, for example, the GDP of the United States economy was approximately \$9 trillion. If a \$9 trillion economy declines just one-fourth of one percentage point, *\$22.5 billion* of production would be lost. This amount is more than the federal government spent on agriculture or general science, space, and technology during the entire 1999 fiscal budget year.

Described in other terms, this amount would be equal to 750,000 workers losing jobs that paid \$30,000 each for an entire year. In practice, the effects of a decline in GDP generally are spread out over a large area rather than being concentrated in just one spot, but they are still enormous by any measure.

The Misery Index

The **misery index**, sometimes called the **discomfort index**, is the sum of the monthly inflation and unemployment rates. **Figure 16.2** shows the misery index for a period beginning in 1965.

Although it is not an official government statistic, the misery index is a comprehensive measure of consumer suffering during periods of high inflation and unemployment. The index is relevant only over long periods because of the wide month-tomonth swings in some of the numbers.

Uncertainty

When the economy is unstable, a great deal of uncertainty exists. A worker may not buy something because of concern over his or her job. This uncertainty translates into purchases that are not made, causing some unemployment to rise and jobs to be lost.

The worker is not the only one the uncertainty affects. For example, the owner of a business producing at capacity may decide against an expansion although new orders are arriving daily. Instead, the producer may try to raise prices, which increases inflation.



The Social Costs

The cost of instability can be measured in dollars rather easily, but it is harder to measure in terms of human suffering. In human terms, the costs are almost beyond comprehension. Because of these social costs, everyone agrees that stability must be achieved. Economists are interested not only in society's production, but in its mental and social health as well.

Wasted Resources

Human suffering during periods of instability goes beyond not having more goods and services that raise the standard of living. The labor resource is wasted, with people wanting work but not being able to find it. When this happens, the economy fails to satisfy the basic human need to be a useful and productive member of society. This labor situation is particularly acute in inner cities where unemployment rates run high among minority groups.

Wasted resources are not limited to just human resources. Idle factories waiting to be utilized are another wasted resource. Natural resources may also lie unused or go to waste.

Political Instability

Politicians also suffer from the consequences of economic instability. When times are hard, voters are dissatisfied, and incumbents are often thrown out of office. For example, most experts agree that Bill Clinton's victory over President George Bush in 1992 was due in part to the 1991 recession.



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If too much economic instability exists, as during the Great Depression of the 1930s, voters are often willing to vote for radical change. As a result, economic stability adds to the political stability of our nation.

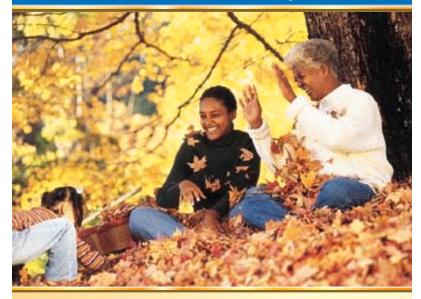
Crime and Family Values

High crime rates, too few economic and social opportunities for minorities, the loss of individual freedoms, and the lack of economic stability for many Americans are all grounds for concern. Many people believe that some of these social ills cannot be cured without the help of a strong and stable economy.

When the economy is healthy, the citizens of a society can more easily deal with its social problems. People have jobs and can provide for themselves and their families.

Communities can take advantage of higher tax collections, which can be used to increase police protection and other municipal services. Companies are more willing to hire disadvantaged persons and provide on-the-job training.

Economics and Society



Family Values A vibrant economy means that people will be more certain of their ability to provide for themselves and their families. *What are some benefits of a healthy economy?*

A healthy economy means that people will be more certain of their ability to provide for themselves and their families. When people can do this, they are more positive about the future in general.

Section 1 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Using your notes from the graphic organizer activity on page 437, explain what the GDP gap measures.
- 2. Key Terms Define stagflation, GDP gap, misery (discomfort) index.
- Explain how economists measure the economic cost of instability.
- 4. Describe the social cost of instability.

Applying Economic Concepts

5. Misery Index How might the psychological strains that many people feel in difficult

economic times help prolong an economic downturn? Provide at least one example with your answer.

Critical Thinking

- 6. Making Generalizations If the GDP gap in a given year rose dramatically, what do you think would happen to unemployment and inflation?
- 7. Making Comparisons How does stagflation differ from the traditional business cycle?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

STUDY AND WRITING

Skill

Applying the Writing Process

Researching and writing allows you to organize your ideas in a logical manner. The writing process involves using skills you have already learned, such as taking notes, outlining, and synthesizing information.

Learning the Skill

Use the following guidelines to help you apply the writing process.

- Select an interesting topic. As you identify possible topics, focus on resources that would be available. Do preliminary research to determine whether your topic is too broad or too narrow.
- Write a thesis statement that defines what you want to prove, discover, or illustrate in your writing. This will be the focus of your entire paper.
- Prepare and do research on your topic. First formulate a list of main idea questions; then do research to answer those questions. Prepare note cards on each main-idea question, listing the source information.
- Organize your information by building an outline or another kind of organizer. Then follow your outline or organizer in writing a rough draft of your report.
- A report should have three main parts: the introduction, the body, and the conclusion. The introduction briefly presents the topic and gives your topic statement. In the body, follow your outline to develop the important ideas in your argument. The conclusion summarizes and restates your findings.
- Each paragraph should express one main idea in a topic sentence. Additional sentences support or explain the main idea by using details and facts.
- Revise the draft into a final report. Wait for a day, then reread and revise it.

Practicing the Skill

Suppose you are writing a report on the role political turmoil plays in economic instability. Answer the following questions about the writing process.

- 1. How could you narrow this topic?
- 2. Write a thesis statement.
- 3. What are three main ideas?
- 4. What are three possible sources of information?



A systematic approach facilitates the writing process.

Application Activity

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Use research resources in your library to find information on political instability during the Great Depression. Write a short report on the topic.

Practice and **assess** key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Macroeconomic Equilibrium

SECTION 2

Study Guide

Main Idea

Aggregate *supply* is the total quantity of goods and services produced at different price levels. Aggregate *demand* is the total quantity purchased at different price levels.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing at least three factors that could lower production costs leading to an increase in aggregate supply.



Key Terms

aggregate supply, aggregate supply curve, aggregate demand, aggregate demand curve, macroeconomic equilibrium

Objectives

After studying this section, you will be able to:

- 1. Explain the concept of aggregate supply.
- 2. **Describe** the importance of aggregate demand.
- 3. Examine the nature of macroeconomic equilibrium.

Applying Economic Concepts

Equilibrium Have you ever experienced one of those rare moments when you feel completely satisfied and do not want to change anything that you are doing? This is called a state of *equilibrium*. Read to find out how the economy, too, reaches a state of equilibrium occasionally.

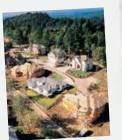
Cover Story

It Keeps Going and Growing . . .

It just keeps going and growing. Strong economic growth, stable prices for goods and services, and record-low unemployment and stable lending rates

record-low unemployment and have made the U.S. economy look remarkably similar to the Energizer Bunny on steroids. Absolutely nothing seems able to stop it.

to stop it. The Dow-Jones Industrial Average is now within spitting distance of the dizzying 11,000 mark. The economy is chugging along at an impressive 4.5 percent pace, . . . inflation is practically non-existent . . . and



Economy continues growth

practically non-existent and unemployment rests at 4.2 percent, a 29-year low, while demand for labor remains more robust than ever. . . .

So what gives? How can the economy keep going at this dizzying pace without, at some point, slowing down?

-CNNfn, April 30, 1999

rom a historical perspective, the state of affairs described in the cover story is relatively rare. We would like to see these conditions prevail more often, but something always seems to happen to prevent it. As a result, economists study markets in an attempt to find out how they work, and how they can be made to work even better.

Aggregate Supply

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When we study markets, we often use the tools of supply and demand to show how the equilibrium price and quantity of output are determined. When we study the economy as a whole, we can use the concepts of supply and demand in much the same way.

One approach is to study **aggregate supply**, the total value of goods and services that all firms would produce in a specific period of time at various price levels. If the period was exactly one year, and if production took place within a country's borders, then aggregate supply would be the same as GDP.



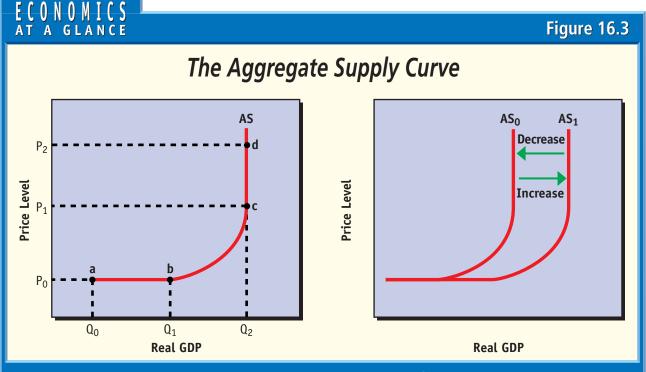
The Aggregate Supply Curve

The concept of aggregate supply assumes that the money supply is fixed and that a given price level prevails. However, if prices should change, then individual firms would adjust their profit-maximizing quantities of output, producing a slightly different level of GDP. If it were somehow possible to keep adjusting the price level to see how total output changed, we could then construct an **aggregate supply curve**, which shows the amount of real GDP that could be produced at various price levels.

Figure 16.3 shows how an aggregate supply curve, **AS**, for the whole economy might look. It is shown as upward sloping, but with a horizontal as well as vertical range. The horizontal range represents various levels of output that coexist with large amounts of unemployed resources. If the economy is producing at point **a**, for example, output could be expanded to point **b** by putting some unemployed resources to work, without causing any change in the general price level. However, any expansion of real GDP beyond point **b**, which has an output of \mathbf{Q}_1 , is not possible without some increase in the price level. By the time the economy has reached point **c**, the price level has risen to \mathbf{P}_1 because firms have been competing for increasingly scarce resources. \mathbf{Q}_2 is the level of output where all resources are fully employed, because firms merely drive up prices if they try to expand production beyond point **c**.

The aggregate supply curve, like the supply curve of the individual firm, can increase or decrease. Most of the increases in aggregate supply are tied to the cost of production for the individual firm. If the cost goes down for some or all firms, aggregate supply increases, which shows as a shift to the right.

Factors that tend to increase the cost of production for an individual firm tend to decrease aggregate supply. These factors include higher prices for foreign oil, higher interest rates, and lower labor productivity. Any increase in cost that causes firms to offer fewer goods and services for



Using Graphs The aggregate supply curve shows the amount of real GDP that could be produced at various price levels. An increase in aggregate supply comes about when production costs for all the individual producers fall. What causes a decrease in aggregate supply?

CONTENTS

sale at each and every price would shift the aggregate supply curve to the left.

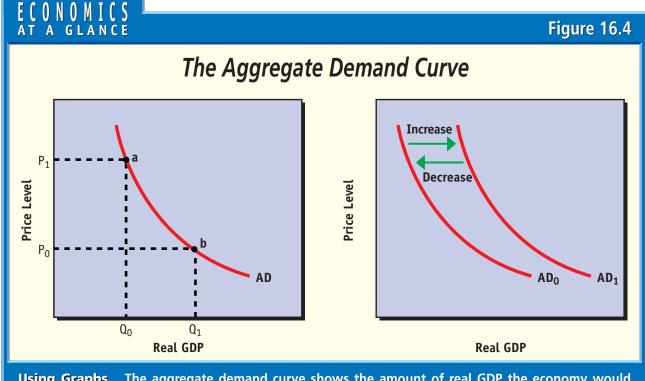
Aggregate Demand

Aggregate demand is the total quantity of goods and services demanded at different price levels. It is like aggregate supply in that it is a summary measure of all demand in the economy; it can be represented in the form of a graph; and it can either increase or decrease over time.

The Aggregate Demand Curve

Figure 16.4 illustrates the **aggregate demand curve**, a graph showing the quantity of real GDP that would be purchased at each possible price level in the economy. This curve, labeled **AD**, represents the sum of consumer, business, and government demands at various price levels. It slopes downward and to the right like the demand curve for individuals, but for entirely different reasons. The primary reason for the negative slope is the underlying assumption that the economy can have only one money supply at a time. The size of this supply is fixed and has a different purchasing power at every possible price level. When prices are very high, a given money supply will purchase a limited amount of output, such as that represented by point **a**. When prices are much lower, everyone will be able to buy relatively more GDP, putting output purchased at point **b**. If the price level dropped further, even more GDP could be purchased, which is why the curve tends to slope downward and to the right.

The aggregate demand curve, like the aggregate supply curve, can increase or decrease depending on certain conditions. One factor that affects the aggregate demand curve is a change in the amount of money that people save. If consumers collectively save less and spend more, the increase in consumer spending would increase aggregate demand, shifting the aggregate demand curve to the right.



Using Graphs The aggregate demand curve shows the amount of real GDP the economy would demand at all possible price levels. What causes the aggregate demand curve to shift?



A decrease in aggregate demand can be caused by the same factors behaving in an opposite fashion. For example, an increase in saving-leaving consumers less money to spend-will cause the aggregate demand curve to shift to the left.

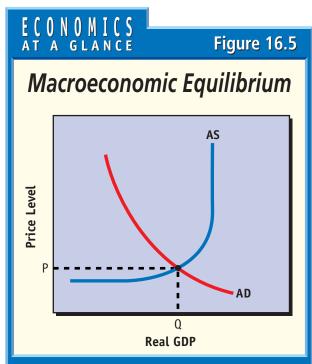
Higher taxes and lower transfer payments could also reduce aggregate spending. Such decisions shift the aggregate demand curve to the left because all sectors of the economy collectively buy less GDP at all price levels.

Macroeconomic Equilibrium

Macroeconomic equilibrium is the level of real GDP consistent with a given price level, as determined by the intersection of the aggregate supply and demand curves. This equilibrium is shown in Figure 16.5 where Q is the level of real GDP that is consistent with the price level P. This is a static equilibrium because it represents a situation at a particular point in time.

If the economy is growing, the price level may or may not change, depending on changes in productivity and the money supply. This is one of the dilemmas facing economic policy makers—how to make real GDP grow without unduly increasing the price level and thereby the rate of inflation.

Aggregate supply and demand curves are useful concepts, providing a framework for analyzing equilibrium, economic growth, and price stability. They can be used to give an idea of the way and direction that things will change, but they do not yield exact predictions. Even so, they are becoming increasingly important when analyzing macroeconomic issues.



Using Graphs The economy is at equilibrium when the quantity of real GDP demanded is equal to the real GDP supplied at a given price level. What happens to the price level when output increases?

Section 2 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea What factors might cause aggregate demand to increase?
- 2. Key Terms Define aggregate supply, aggregate supply curve, aggregate demand, aggregate demand curve, macroeconomic equilibrium.
- 3. Describe the concept of aggregate supply.
- **4. Explain** the importance of aggregate demand.
- **5. Describe** the nature of macroeconomic equilibrium.

Applying Economic Concepts

6. Equilibrium Define macroeconomic equilibrium, then discuss how a decrease in business investments would affect the macroeconomic equilibrium.

Critical Thinking

7. Analyzing Information What kind of effect would higher taxes have on aggregate supply? Explain your reasoning.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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Profiles Economics

From Rags to Riches

Rags to riches. The expression is cliché, but it captures the imaginations of millions of Americans who dream of success in the country's free market economy. They find inspiration in the stories of individuals who started what would some day become giant global corporations—individuals, perhaps, not unlike themselves.

E.I. DU PONT

The DuPont Company is a multi-*billion* dollar enterprise, one of the largest corporations in the world. It has about 125 plants in the United States and elsewhere, manufacturing more than 40,000 distinct products. Most are chemical products–anything from polyester to pesticides to camera film. In addition, DuPont controls many subsidiaries, including Conoco, the petroleum giant.

DuPont's official name is E.I. DuPont de Numours & Company, a tribute to Èleuthère Irénée du Pont (1771–1834), its founder. At 17, du Pont was a worker at the French royal gunpowder works. At 19, he and his family were forced by the revolution to come to the United States. Noting the poor quality of American gunpowder, he thought he could succeed by making one of higher quality. In 1802, he constructed a small powder works on Brandywine Creek near Wilmington, Delaware. From these humble beginnings, the DuPont giant grew.

HENRY JOHN HEINZ

The J. Heinz Company markets 5,000 varieties of food in 200 countries. The company is named for its founder, Henry John Heinz. Heinz was born in Pittsburgh in 1844. He started his selling career at age 12, hawking produce from his family's garden. At 25, he sold his mother's grated horseradish. He called it "pure and superior," and sold it in clear glass jars to prove his claim. The company went bankrupt after a few years, but Heinz persevered.

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He started a food company, selling ketchup, pickles, jams, jellies and condiments. Clever marketing ("It's not so much what you say," said Heinz, "but how, when and where.") and aggressive sales were key to company growth. By 1896, when Heinz was 52, his company had made him a millionaire. Its growth since then has been even more impressive.

HEINZ

Examining the Profile

- Making Comparisons How are the individuals profiled alike? How are they different?
- Synthesizing Information Explain why you think the companies du Pont and Heinz founded are typical or atypical.

Stabilization Policies

SECTION 3

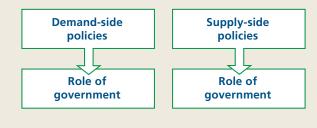
Study Guide

Main Idea

Government can promote economic growth through demand-side and supply-side policies.

Reading Strategy

Graphic Organizer As you read the section, complete graphic organizers similar to the ones below by describing the role of government under demandside and supply-side policies.



Key Terms

fiscal policy, Keynesian economics, multiplier, accelerator, automatic stabilizer, unemployment insurance, supply-side economics, Laffer curve, monetarism, wage-price controls

Objectives

After studying this section, you will be able to:

- 1. Explain the operations and impact of fiscal policy.
- Distinguish between supply-side economics and fiscal policy.
- 3. State the basic assumptions of monetary policy.

Applying Economic Concepts

Automatic Stabilizers You may know someone who collects unemployment insurance, Social Security, or medicare. Read to find out why these programs are some of the key fiscal policy measures used today.

Cover Story

Hard to Find the Funny Side of Gridlock

Even by the high standards of acrimony common in Washington, the legislative agenda has fallen prey to particularly bitter wrangling over the government's big budget surpluses—projected at \$3,000 billion

over the next 10 years.

Both Republican and Democratic leaders are under pressure from rank-and-file members to avoid compromises this year.



Congress in session

Many candidates for

Congress and the presidency would prefer to run on party-defining issues, unclouded by messy compromises or cross-over votes. As a result, Democrats and Republicans have been unable—or are unwilling—to reach agreement on many routine bills.

—The Financial Times, August 6, 1999

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Conomic growth, full employment, and price stability are three of the seven major economic goals of the American people. In order to reach these goals, sound economic policies must be designed and implemented.

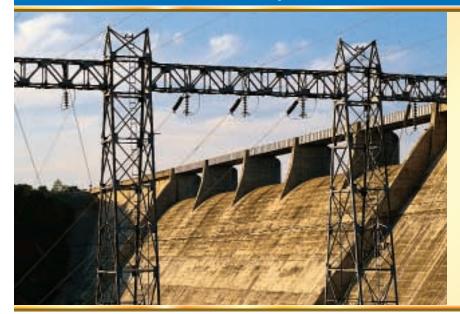
Economic stability can be achieved in several ways. Some people favor policies that stimulate aggregate demand, while others favor ones that stimulate aggregate supply. While these two approaches have their supporters, Congressional gridlock, as we just saw in the cover story, makes them increasingly more difficult to implement. As a result, a third approach that favors monetary policy has filled the void.

Demand-Side Policies

Demand-side policies are federal policies designed to increase or decrease total demand in the economy by shifting the aggregate demand curve to the right or to the left. One approach is known as **fiscal policy**—the federal government's attempt to stabilize the economy through taxing and government spending.

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Keynesian Economics



The Role of Government According to Keynesian economics, economic activity will be stimulated if the federal government invests in projects such as hydroelectric plants. What is the role of government deficits according to Keynesian theory?

Fiscal policies are derived from **Keynesian** economics, a set of actions designed to lower unemployment by stimulating aggregate demand. John Maynard Keynes put forth these theories in 1936 and they dominated the thinking of economists until the 1970s.

The Keynesian Framework

Keynes provided the basic framework with the output-expenditure model, GDP = C + I + G + F. According to this model, any change in GDP on the left side of the equation could be traced to changes on the right side of the equation. The question was, which of the four components caused the instability?

According to Keynes, the net impact of the foreign sector (F) was so small that it could be ignored. The government sector (G) was not the problem either, because its expenditures were normally stable over time. Spending by the consumer sector (C), stated Keynes, was the most stable of all. Ruling out F, G, and C, it then appeared that the business, or investment, sector (I) was to blame for the instability.

In Keynes's theory, investment sector spending was not only unstable, but had a magnified effect on other spending. If investment spending declined by \$50 billion, for example, many workers would lose their jobs. These workers in turn would spend less and pay fewer taxes. Soon, the amount of spending by all sectors in the economy would be down by more than the initial decline in investment. This effect is called the **multiplier**, and it says that a change in investment spending will have a magnified effect on total spending. The multiplier is believed to be about 2 in today's economy, so if investment spending goes down by \$50 billion, the decline in overall spending could reach \$100 billion.

Conditions are likely to be made even worse by the **accelerator**-the change in investment spending caused by a change in total spending. After a decline in overall spending begins, it causes investment spending to be reduced even further. Before long, the economy is trapped in a downward spiral. The combined multiplier-accelerator effect is important because it contributes to the instability of GDP.

The Role of Government

Keynes argued that only the government was big enough to step in and offset changes in investmentsector spending. The government could take a direct role and undertake its own spending to offset the decline in spending by businesses. Or, it could play an indirect role by lowering taxes and



enacting other measures to encourage businesses and consumers to spend more.

Suppose the government wanted to take direct steps quickly to offset a \$50 billion decline in business spending. To do this, it could spend \$10 billion to build a dam, give \$20 billion in grants to cities to fix up poor neighborhoods, and spend another \$20 billion in other ways. Thus, the \$50 billion that business does not spend would be replaced by the \$50 billion the government spends. Thus, the overall sum of C + I + G + F would remain unchanged.

Or, instead of spending the \$50 billion, the government could reduce tax rates by that amount and give investors and consumers more purchasing power. If the \$50 billion not collected in taxes were spent, the initial decline in investment spending would be offset, and the sum for C + I + G + Fagain would remain the same.

Either way, the government would run the risk of a growing federal deficit. In Keynes's view, the deficit was unfortunate, but necessary to stop further declines in economic activity. When the economy recovered, tax collections would rise, the government would run a surplus, and the debt could be paid back. The justification for *temporary* federal deficits was one of the lasting contributions of Keynesian economics, and a major departure from the economic thinking of the time.

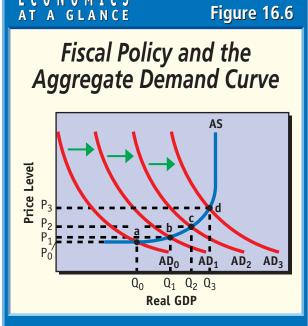
Automatic Stabilizers

Another key component of fiscal policy is the role of automatic stabilizers, programs that automatically trigger benefits if changes in the economy

STANDARD INFOBYTE & POOR'S

The Employment Report The Employment Report, released monthly by the Bureau of Labor Statistics, provides the unemployment rate, number of nonfarm payrolls, average workweek, and average hourly earnings figures. It is the broadest and most timely indicator of economic activity.

ECONOMICS AT A GLANCE



Using Graphs Fiscal policies are designed to increase aggregate demand. Successive increases in aggregate demand—or moving the economy from a to d-put increasing pressure on the price level as the unemployed resources in the economy find employment. Which point on the graph represents the lowest aggregate demand?

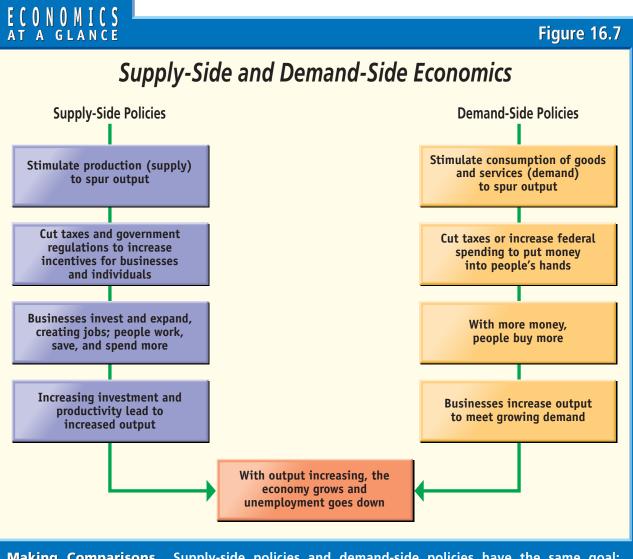
threaten income. Three important stabilizers are unemployment insurance, federal entitlement programs, and the progressive income tax.

Unemployment insurance is insurance that workers who lose their jobs through no fault of their own can collect for a limited amount of time. Unemployment insurance cannot be collected by people who are fired because of misconduct or who quit their jobs without good reason.

Federal entitlement programs and many social welfare programs designed to provide minimum health, nutritional, and income levels for selected groups of people also work as automatic stabilizers. They include federal programs such as welfare, government pensions, medicare, medicaid, and Social Security. The availability of these programs is a guarantee that economic instability or some other factor will not cause demand to fall below a certain level for selected individuals.



CONTENTS



Making Comparisons Supply-side policies and demand-side policies have the same goal: continuous and stable economic growth without price inflation. How does the role of government differ under supply-side and demand-side policies?

The progressive income tax is the third automatic stabilizer. For example, if someone loses his or her job, or ends up working fewer hours because of cutbacks, that person will earn less. If the reduction in income is significant, that person is likely to fall into a lower tax bracket, which cushions the decline in income.

Fiscal Policy and Aggregate Demand

The impact of fiscal policies can be illustrated with the aggregate demand curve **AD. Figure 16.6**

shows a single aggregate supply curve and several aggregate demand curves. When aggregate demand is very low, as during the Great Depression or other periods of severe economic downturn, the economy would be at point \mathbf{a} , where \mathbf{AD}_0 intersects **AS**. Increases in government spending-public works projects, transfer payments, or even tax reductions-could be used to increase aggregate demand to \mathbf{AD}_1 . Because many resources are not employed, the movement of the economy from \mathbf{a} to \mathbf{b} causes very little price inflation.



Further attempts to increase aggregate demand to AD_2 and AD_3 produce successively less output with increasingly higher price levels. Eventually, all attempts the government sector makes to increase aggregate demand only increase the price level without increasing the production of real GDP.

Limitations of Fiscal Policy

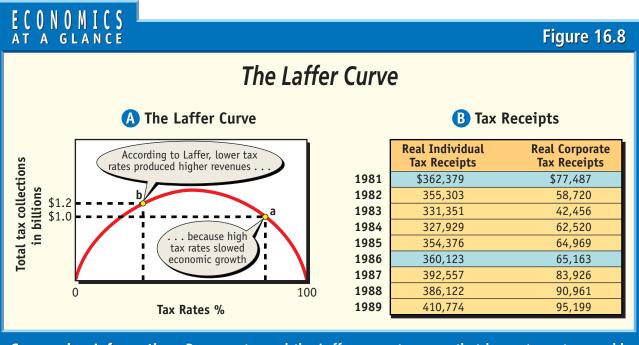
Keynes envisioned the role of government spending as a counterbalance to changes in investment spending. Ideally, the government would increase its spending to offset declines in business spending, and conversely government would decrease spending whenever business spending recovered. In practice, however, the federal government has been generally unable to bring its spending under control, even when it ran enormous budget deficits in the 1980s.

As a result, the most effective counter-cyclical fiscal policies used today are the automatic stabilizers. The advantage of the stabilizers is that spending approval or tax reduction is not needed when the economy enters a recession, or when people lose jobs and need unemployment insurance coverage.

Supply-Side Policies

Supply-side economics are policies designed to stimulate output and lower unemployment by increasing production rather than demand. The supply-side view gained support in the late 1970s because demand-side policies did not seem to be controlling the nation's growing unemployment and inflation. In the 1980s, supply-side policies became the hallmark of President Reagan's administration.

The differences between supply-side economics and demand-side economics are smaller than most people realize. Both policies, which are summarized in **Figure 16.7**, have the same goal-that of increasing production and decreasing unemployment without increasing inflation.



Sequencing Information Proponents used the Laffer curve to argue that lower tax rates would generate higher economic growth as well as higher tax collections. In retrospect, lower tax rates generated lower tax receipts. After adjusting for inflation, federal tax revenues declined after taxes were reduced in 1981. What happened to tax revenues after taxes were raised in 1986?

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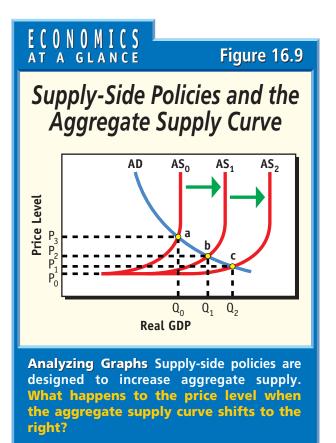
Smaller Role for Government

A key issue for supply-siders is that of reducing government's role in the economy. One way to do this is to reduce the number of federal agencies. Another way to make government's role smaller is through deregulation—removing established regulations with which industries must comply.

Deregulation is a major objective of supplysiders and is favored by some demand-siders as well. Under the administration of President Jimmy Carter, major steps were taken to deregulate the energy, airline, and trucking industries. The Reagan administration continued deregulation efforts in the savings and loan industry, hoping to bring about more competition.

Lower Federal Taxes

Another target of supply-siders is the federal tax burden on individuals and businesses. They



believe that if taxes are too high, people will not want to work, and businesses will produce less. Lower tax rates, they argue, allow individuals and businesses to keep more of the money they earn, which encourages them to work harder. This would give workers more money to spend in the long run. Government would also gain as total tax collections go up because of the extra activity.

In the 1980s, somewhat optimistic supply-siders even argued that lower tax rates would stimulate the economy so much that eventually even more taxes could be collected than before. This was formalized in the **Laffer curve**–a hypothetical relationship between federal tax rates and tax revenues–shown in **Panel A** of **Figure 16.8**. This proposition was the basis for President Reagan's 1981 tax cut, which reduced income taxes 25 percent over a three-year period.

As it turned out, either the interpretation or the assumptions of the Laffer curve were invalid, as the increased revenue collections never materialized. As **Panel B** in **Figure 16.8** shows, after adjusting for inflation, both individual income tax receipts and corporate tax receipts were lower in 1986 than they were in 1981. Because tax collections never went up, the federal budget showed a deficit instead. In fact, real tax collections did not surpass their 1981 levels until after the 1986 tax revisions took effect in 1987.

Supply-Side Policies and Aggregate Supply

The impact of supply-side policies can be illustrated in terms of the aggregate supply and demand curves shown in **Figure 16.9**. When aggregate supply is very low, the economy would be at point **a**, where AS_0 intersects **AD**. If supplyside policies were successfully instituted, the aggregate supply curve would shift to AS_1 , moving the point of macroeconomic equilibrium to **b**. Without any corresponding change in aggregate demand, real output would grow, and the price level would come down.

Further attempts to increase aggregate supply to move the economy to **c** has even less impact on the price level. If the aggregate supply curve does have a horizontal range then the price level could never be reduced below P_{0} .



THE GLOBAL ECONOMY

STABILIZING EFFORTS IN AFRICA

Beginning in the 1970s, droughts, growing populations, lack of capital, and falling world prices for their exports weakened many African economies.

Relying on foreign help to remedy these problems, African countries south of the Sahara took on \$130 billion worth of debt by the 1980s. African leaders increasingly realized that they would have to find answers to Africa's problems without much outside help. To break their reliance on foreign countries, some African nations formed regional associations to promote trade and economic cooperation. Governments that had once adopted socialist policies increasingly encouraged free enterprise.

Critical Thinking

- 1. Analyzing Information What policies helped create the large debt?
- **2. Analyzing Information** Why did many African nations form regional associations?

Limitations of Supply-Side Policies

One limitation of supply-side policies is a lack of enough experience with them to know how they affect the economy. Even the concepts of aggregate supply and aggregate demand are largely conceptual, making it difficult to predict, based on the shapes of the two curves, the exact consequence of any particular supply-side policy.

In the case of the Laffer curve, total tax collections, when adjusted for inflation, actually declined after the 1981 tax reductions were implemented. The result was that one of the main foundations of the supply-side school was found to be invalid. Even so, policies that promote productivity, reduce unnecessary paperwork, or otherwise allow the economy to grow to its maximum potential are certainly worthwhile. Almost everyone, including demand-siders, favors these policies.

Finally, supply-side economic policies are designed more to promote economic growth rather than to remedy economic instability. No matter how fast or slow the economy grows, it seems to have a tendency to fluctuate around its trend line. Supply-side policies during the Reagan presidency tended to weaken the automatic stabilizers by making the federal tax structure less progressive and by reducing many of the "safety net" programs.

Monetary Policies

Both demand-side economics and supply-side economics are concerned with stimulating production and employment. Neither policy assigns much importance to the money supply. A doctrine called **monetarism**, however, places primary importance on the role of money and its growth.

Monetarists believe that fluctuations in the money supply can be a destabilizing element that leads to unemployment and inflation. Because of this, they favor policies that lead to stable, long-term monetary growth at levels low enough to control inflation.

Interest Rates and Inflation

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In the short run, expansionist monetary policy can lower interest rates. This action would reduce the cost of consumer and business borrowing and shift the aggregate supply curve to the right. Real GDP would tend to increase, but so would the possibility of future inflation. The money supply can grow over time, but how fast should the money supply be allowed to grow?

Most monetarists believe that inflation can be controlled if the money supply is allowed to grow at a slow but steady rate. The rates of growth of real GDP and productivity would determine the rate at which the money supply grows. For example, if the rate of growth of real GDP were 3 percent, and that of productivity 1 percent, the money supply would grow at about 4 percent without causing inflation. At this rate, there would be just enough extra money each year to buy the additional goods and services the economy produces.

This approach to inflation control is in sharp contrast to those tried earlier. In the early 1970s, for example, President Richard Nixon tried to stop inflation by imposing **wage-price controls**—regulations that make it illegal for businesses to give workers raises—or to raise prices without the explicit permission of the government. Most monetarists at the time said the controls would not work. The economy ultimately proved the economists correct: the controls did little to stop inflation.

Monetary Policy and Unemployment

Monetarists argue that attempts to cut unemployment by expanding the money supply provide only temporary relief. They argue that excessive rates of monetary growth eventually drive up prices and interest rates. When rates eventually do go up, the cost of borrowing for businesses increases, which shifts the aggregate supply curve to the left. The larger money supply also shifts the aggregate demand curve to the right. The result is that real GDP would fall back to its original level—but at a different and much higher price level. The final result would appear as if the aggregate supply and demand curves shifted up together.

An overly expansionist monetary policy, then, will only cause long-term inflation. Monetary policy is not a long-term cure for unemployment.

CYBERNOMICS SPOTLIGHT

Deregulation and New Growth

The deregulation of the telecommunications industry and the breakup of AT&T have helped turn the telephone into an important component of the economy. The telephone is responsible for helping Sioux Falls, South Dakota, and Omaha, Nebraska, become major centers for the credit-card processing and telemarketing industries.

Section 3 Assessment

Checking for Understanding

- 1. Main Idea Compare the views of supply-side economists and demand-side economists regarding the role of government in the economy.
- Key Terms Define fiscal policy, Keynesian economics, multiplier, accelerator, automatic stabilizer, unemployment insurance, supplyside economics, Laffer curve, monetarism, wage-price controls.
- Describe the objectives of demand-side policies.
- Identify the main assumptions of supply-side policies.
- 5. Explain how monetary policy could be destabilizing.

Applying Economic Concepts

6. Automatic Stabilizers Fiscal policy is one of the tools designed to stabilize the economy. First, define fiscal policy in your own words. Then, explain its role in shifting the aggregate demand curve.

Critical Thinking

CONTENTS

- **7. Making Comparisons** How do demand-side policies and supply-side policies differ from one another?
- 8. Analyzing Information According to monetarists, how do fluctuations in the money supply affect the economy?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

MARCH 29, 1999

Wages are determined basically the same way other prices are—by demand and supply. People work and earn money. The amount they earn usually depends on the value of their labor. Those who possess a unique skill or ability may receive very high wages.

Unequal Pay Strikes Out

Economists and psychologists who have studied the impact of pay differentials on corporate performance seem to be of two minds on the subject. Some experts argue that unequal pay is beneficial-inspiring greater individual effort and productivity. Others claim that large

pay differences often generate dissatisfaction and poorer quality work.

Both views may be valid, depending on the degree of inequality and the nature of a business and its workers. But in a team sport such as baseball, unequal pay doesn't seem to pay off. That's the finding of an intriguing study in the Academy of Management Journal by Matt Bloom of Purdue University.

-Newsclip

Using two measures of pay dispersion, Bloom analyzed how they affected both individual player performance and final team standings for 29 teams from 1985 to 1993. Adjusting for such factors as past performance, age, experience, and pay levels, he found that unequal pay distributions translated into poorer stats for lower-paid players on a number of performance measures—and into lower standings for their teams.

The proof of the pudding: Bloom notes that three of [1998's] division winners, the New York Yankees, the San Diego Padres, and the Cleveland Indians, each had

one of the smallest pay spreads in their respective leagues.

Successful teams like the San Diego Padres and Cleveland Indians tend to have relatively smaller pay spreads.

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Examining the Newsclip

- **1. Synthesizing Information** What are the two theories presented in the article regarding large pay differentials?
- 2. Finding the Main Idea Which theory does the Bloom theory support?
- **3. Drawing Conclusions** In your opinion, are the study's findings valid? Explain your reasoning.

Economics and Politics

SECTION 4

Study Guide

Main Idea

Monetary policy is becoming more important because discretionary fiscal policy is difficult to implement.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by identifying and describing the different kinds of fiscal policy.



Key Term

Council of Economic Advisers

Objectives

After studying this section, you will be able to:

- 1. **Explain** why monetary policy sometimes conflicts with other economic policies.
- 2. Recognize that economists have differing views.
- **3. Understand** the way that politics and economics interact.

Applying Economic Concepts

Diversity of Opinion Well-meaning friends often disagree over how something should be done. Read to find out why the same thing happens to economists.

Cover Story

Charades on the Hill

Congress is playing charades with the American people, and the way the game has been rigged guarantees even greater public distrust of government.

The tax cut bill . . . [promises] a \$792 billion reduction in federal levies . . . [but] . . . the "projected" budget surplus that is supposed to pay for these tax

cuts rests on the assumption that the spending caps . . . in the 1997 budget deal will remain in effect for the next ten years.



But [politicians] are playing games with the budget by classifying spending that busts the caps as "emergency appropriations," which are exempt from those agreed-upon overall lim-

Census worker compiles data

those agreed-upon overal milling its . . . calling the cost of the 2000 Census an "emergency," despite the fact that the Constitution requires a Census every 10 years and this one has been in the planning stage ever since 1990.

-The Washington Post, August 4, 1999

s we look at the economic history of the United States, it is clear that times are better now than at any time in our past. Inflation is largely under control and unemployment, while it still goes up and down, is less painful than ever. Business cycles have turned into fluctuations, and the decade of the 1990s contained the longest period of economic expansion in history.

If anything, the task before us is to manage prosperity in a way that is fair to everyone, and in a way that lays the foundation for improved economic health. Fortunately, economic literacy has never been higher among Americans than it is today-despite occasional indications to the contrary such as the one discussed in the cover story.

The Changing Nature of Economic Policy

As you know, fiscal policy is the federal government's attempt to stabilize the economy through taxing and government spending. Fiscal policy involves planning a budget that has either surpluses or deficits that are intended to maintain a steady level of total spending in the economy.



Fiscal policy can be either *discretionary, passive*, or *structural*. Discretionary fiscal policy is policy that someone must *choose* to implement. It requires an action by either the Congress and the president, or by an agency of government, to take effect. Passive fiscal policy does not require new or special action to go into effect. It reacts automatically when the economy changes. Structural fiscal policy includes plans and programs put in operation to strengthen the economy in the long run.

The Decline of Discretionary Fiscal Policy

Discretionary fiscal policy is used less today for several reasons. The first is the "recognition lag." This lag is the time between the beginning of a recession or a period of inflation and the awareness that it is actually happening. Most people do not believe that a recession is imminent until it actually occurs. Meanwhile, the economic problem may grow more severe than it would have if the situation had been recognized and dealt with sooner. This recognition lag is often followed by an "implementation lag," which is the amount of time it takes to do something once the problem is identified.

In November of 1973, for example, the American economy entered a severe recession that was to last for 16 months. At the time, it was considered the worst recession since the 1930s. To stimulate the economy, Congress approved a \$100 income tax refund. However, the refunds were not mailed until the second quarter of 1975–shortly after the recession *ended*.

A third reason contributing to the decline of discretionary fiscal policy is the relatively short duration of recessions—about 11 months on average. To illustrate, when the 1990 recession began, political leaders waited for it to end rather than enact any programs to stimulate the GDP. The Fed used monetary policy to help move the economy out of the recession, but recovery was weak.

The fourth reason contributing to the decline of fiscal policy is the gridlock that has characterized our government since the 1990s. In both 1995 and 1996, Congress shut the federal government down when the parties could not agree on the federal budget. When Republicans and Democrats deadlocked in 1999 over a \$792 billion tax cut proposal, the federal government could not use fiscal policy to shape the economy.

Fifth, Congress imposed budget caps designed to limit federal government spending. The caps gave Congress little leeway to pursue discretionary policies. As a result, some spending for agriculture, military operations in Kosovo, and even routine expenditures such as those required to carry out the 2000 census, were classified as "emergency expenditures" to get around the budget caps.

The Importance of Passive Fiscal Policies

Despite the declining use of discretionary fiscal policies, several passive fiscal programs contribute to the stability of the American economy.

All of the automatic stabilizers-unemployment insurance, social security, and other programs discussed on page 449-protect consumers and the economy if economic conditions worsen. Other programs, such as the progressive individual income tax, discussed on page 450, provide the same relief.

Careers

Credit Manager

Credit managers decide whether to extend credit to clients—either companies or individuals.

The Work

Credit managers' duties include analyzing financial reports submitted by



client companies and reviewing credit agency reports on their promptness in paying bills. Credit managers also draw up credit policies to be met by individuals applying for credit. They set up office procedures and oversee other employees in the credit department.

Qualifications

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To succeed in their work, credit managers must be able to analyze detailed information, draw conclusions, and speak and write effectively. A degree in business administration is a must. For example, if the economy slows down, workers earn less and drop into lower tax brackets, which helps offset their lost income. On the other hand, if the economy accelerates, as it did in the late 1990s, workers earn more and move into higher tax brackets. The higher tax brackets help put a break on overexpansion, and generate substantial tax revenues in the process. These surpluses can then be used to repay money that was previously borrowed—as the Democrats suggested in 1999. Or, they can be returned to the American people in the form of lower taxes—as the Republicans preferred to do.

Structural Fiscal Policies

Structural fiscal policies are policies designed to strengthen the economy in the long run. They are not designed to deal with temporary problems such as recession and unemployment.

One example of a structural program is the national health-care program President Clinton proposed in the early 1990s. Another is the \$792 billion tax cut proposed by Republicans in 1999, or any of the flat-tax income tax proposals of the 1990s. The 1996 welfare overhaul that replaced the Aid to Families with Dependent Children (AFDC) with the Temporary Aid to Needy Families (TANF) would also be classified as a structural change in the way the economy operates.

The sponsors of these new structural fiscal policies believed that their proposals would strengthen the American economy. Their proposals were designed to have long-term effects, and most represented a dramatic change in the way things are



Private Property Early Americans believed so strongly in the right to private property that they incorporated this right into law. The first Congress proposed the Fifth Amendment, which was ratified in 1791. The amendment states that private property shall not be taken for public use without just compensation. The Fourteenth Amendment prevents any state from depriving people of their property without due process of law.

done. Because many people are often reluctant to change, however, many proposals remain just that-plans rather than courses of action.

The Dominance of Monetary Policy

The declining use of discretionary fiscal policy left a void filled by the Federal Reserve System (Fed), which conducts monetary policy. The abandonment of discretionary fiscal policy also means that monetary and fiscal policies are less likely to clash–although monetary policy is still subject to criticism by political leaders.

Such a situation occurred during the 1992 presidential election campaign. Because of the threat of inflation, the Fed was pursuing a tighter monetary policy than President Bush wanted. The high interest rates caused by the Fed's policy also contributed to the length of the 1991 recession. Eventually, the high interest rates and the recession during the election year–along with President Bush's broken promise not to raise taxes–paved the way for Bill Clinton's narrow election victory.

For this and other reasons, the Fed frequently comes under attack by politicians. Steve Forbes, Jack Kemp, and former Vice President Dan Quayle–all candidates at one time for the 2000 Republican presidential nomination–sharply criticized the Fed during their campaigns. So far, however, Congress has not been willing to make the Fed less independent. Most members of Congress continue to believe that the power to create money should remain with an independent agency rather than with elected officials.

Why Economists Differ

Choosing which economic policies will work best is difficult. The proposals economists offer often seem contradictory, which adds to the difficulty. These differences, however, are smaller than most people realize.

Different Criteria

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Economists who choose one policy over another normally do so because they think that some problems are more critical than others. For example, one economist might think that unemployment is the crucial issue, while another believes that inflation is. If you were to survey all economists on the best way to deal with a specific problem, their recommendations would be much more consistent.

Different Eras

Another reason economists differ is that most economic explanations and theories are a product of the problems of the times. The unemployment and other problems that occurred during the Great Depression of the 1930s, for example, influenced demand-side economists. Because the government sector was so small at the time, supply-side policies designed to make government's role even smaller probably would not have helped much.

The Monetarist Point of View

The monetarist point of view emerged in the 1960s and 1970s when inflation soared. Because demand-side economic policies were not designed to deal with inflation, new solutions were needed. The problem with the monetarist view, however, was that it offered long-term solutions but little short-term relief.

Supply-Side Policies

Supply-side policies eventually grew out of frustration with stagflation and the failure of demand-siders and monetarists to address this issue. Again, changing times led to changing problems, and so something new and different seemed to be needed.

For the most part, economists do not normally define their positions as being purely demand-side, supply-side, or monetarist. Many demand-siders are monetarists when it comes to controlling inflation. Many monetarists are supply-siders when it comes to agreeing on the potential burden of the tax structure. Most economists take a middle road that incorporates many points of view.

As long as society keeps changing, new problems will continue to arise. From each new set of problems, new theories—and advocates for those theories—are bound to emerge.



Difference of Opinion Although economists do not come to blow like the ones in this cartoon, they often do not agree on economic policies. *Why do economists differ in their policies*?

Economic Politics

In the 1800s, the science of economics was known as "political economics." After a while, economists broke away from the political theorists and tried to establish economics as a science in its own right.

In recent years, the two fields have merged again. This time, however, they have done so in a way best described as "economic politics." Today, politicians are concerned with the economic consequences of what they do. Most of the major debates in Congress, for example, are over spending, taxes, or other budgetary matters.

Council of Economic Advisers

CONTENTS

Generally, economists and politicians work together fairly closely. The president relies on a

CHAPTER 16: ACHIEVING ECONOMIC STABILITY 459

Council of Economic Advisers, a three-member group that reports on economic developments and proposes strategies. The economists basically are the advisers, while the politicians direct or implement the policies. In its role as "the president's intelligence arm in the war against the business cycle," the council gathers information and makes recommendations.

The president listens to the economists' advice, but may not be willing or able to follow it. To illustrate, if the president advocates a balanced budget, the economic advisers may recommend raising taxes to achieve this goal. If one of the president's campaign pledges was not to raise taxes, however, the president might reject the advisers' suggestion.

Increased Understanding and Awareness

Despite disagreeing on some points, economists have had considerable success in the description, analysis, and explanation of economic activity. They have developed many statistical measures of the economy's performance. Economists also have constructed models that are helpful in the tasks of economic analysis and explanation. In the process, economists have helped the American people become more aware of the workings of the economy. This awareness has benefited everyone, from the student just starting out to the politician who must answer to the voters.

Today, economists know enough about the economy to prevent a depression like the one in the 1930s. It is doubtful that economists know enough—or can persuade others that they know enough—to avoid minor recessions. They can, however, devise policies to stimulate growth, help disadvantaged groups when unemployment rises or inflation strikes, and generally make the American economy more successful.



Student Web Activity Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 16—Student Web Activities* for an activity on the Council of Economic Advisers.

Section 4 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 456, explain the difference between automatic and discretionary fiscal policy. List examples of each in your answer.
- 2. Key Term Define Council of Economic Advisers.
- **3. Describe** monetary policy and its goals. Then explain how monetary policy can sometimes conflict with economic policy.
- List several reasons economists differ over policies and issues.
- Explain what "economic politics" means in your own words.

Applying Economic Concepts

6. Diversity of Opinion Why do monetary and fiscal policies often operate at cross-purposes? What impact does this conflict have on the economy?

Critical Thinking

- 7. Making Inferences Suppose that, in an election year, Congress passes a massive tax cut even though inflation is at 9 percent. What actions might the Fed take in response during such economic times?
- **8. Analyzing Information** Why might monetary and fiscal policy be at odds during an election year?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Chapter 16 Summary

Section 1

The Cost of Economic Instability

(pages 437-440)

- Low economic growth and economic instability in the form of inflation and high unemployment rates have both economic and social costs.
- The economic costs can be measured with the **misery index** or the **GDP gap.**
- The social costs

include unemployment, wasted resources, potential political instability, increased crime, and damage to family financial security.

• Strong economic growth is more than an economic ideal. It is one of the foundations of a healthy society.

Section 2

Macroeconomic Equilibrium

(pages 442-445)

- Macroeconomic equilibrium is similar to equilibrium in individual markets. It can be analyzed with the help of aggregate supply curves and aggregate demand curves.
- Most of the factors that influence the individual supply and demand curves also affect the aggregate curves. They shift to the right to represent an increase, and to the left to represent a decrease.
- The intersection of aggregate supply and aggregate demand determines **macroeconomic equilibrium**. This equilibrium is defined in terms of a certain amount of real GDP being produced at a specific price level.

Section 3

Stabilization Policies (pages 447–454)

- Demand-side policies, or **fiscal policies**, are policies designed to affect the aggregate demand curve through federal spending and taxing decisions. Fiscal policies are derived from **Keynesian economics**, which assigns the government a key role in offsetting fluctuating spending by the business sector.
- Automatic stabilizers are an important part of demand-side economics.
- Supply-side economics recommends a smaller role for governments and a lower federal tax structure.
- The outcome of monetary policy is a change in the size of the money supply that, in turn, affects the cost and availability of credit.
- The short-run impact of monetary policy is on interest rates. The long-run impact is on the rate of inflation.

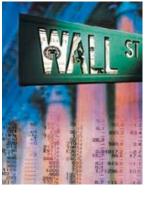


Section 4

CONTENTS

Economics and Politics (pages 456–460)

- Discretionary policy is increasingly difficult to execute due to recognition lags, implementation lags, Congressional gridlock, the brevity of recessions, and conservative budget caps.
- Passive fiscal policy in the form of automatic stabilizers still provides much stability, but monetary policy has filled the void and has become dominant.
- The fields of economics and politics are closely intertwined. The president has a **Council of Economic Advisers** but, for political reasons, may not always be able to follow the Council's advice.



Chapter 16 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 16—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Classify each of the terms below into one of the following categories:

- supply-side policies
- demand-side policies
- monetary policies
- 1. aggregate demand curve
- 2. aggregate supply curve
- **3.** automatic stabilizer
- 4. multiplier
- 5. deregulation
- 6. entitlements
- 7. fiscal policy
- 8. Keynesian economics
- 9. Laffer curve
- 10. wage-price controls

Reviewing the Facts

Section 1 (pages 437–440)

- **1. List** two measures used to describe the problems of growth and economic instability.
- 2. Name some of the social costs of instability.

Section 2 (pages 442–445)

3. Describe the difference between the supply curve of a firm and the aggregate supply curve.

- **4. Identify** the factors that would cause the aggregate demand curve to increase.
- **5. Discuss** what is meant by macroeconomic equilibrium.

Section 3 (pages 447–454)

- 6. Identify the major tools of fiscal policy.
- 7. List the main assumptions of supply-siders.
- 8. **Describe** the short-term and long-term impacts of monetary policy.

Section 4 (pages 456–460)

- **9. Explain** why discretionary fiscal policy is so difficult to use.
- **10. Explain** why new problems will arise in the economy, even as old ones are solved.
- **11. State** an example of how politics sometimes overrides sound economic policies.

Thinking Critically

CONTENTS

- 1. **Drawing Conclusions** Why is the misery index a more personal measure of the social costs of instability than other concepts, such as the GDP gap?
- 2. Making Comparisons How do aggregate supply and demand differ from simple supply and demand? Use a chart similar to the one below to answer the question.

	Description
Demand	
Aggregate Demand	
Supply	
Aggregate Supply	

Chapter 16 Assessment and Activities

3. Making Comparisons Analyze the use of discretionary fiscal policy and monetary policy to offset the effects of a short recession. Which policy would you choose? Include reasons to support your choice.

Applying Economic Concepts

- 1. Automatic Stabilizers What automatic stabilizers have benefited you or your family in the recent past? Could you have managed without them?
- **2. Multiplier** Provide an example of how a \$100,000 expenditure in your community would have a magnified effect as described by the multiplier.
- **3. Diversity of Opinion** Some economists favor policies that stimulate demand, while others favor those that stimulate the supply of goods and services. Still other economists prefer policies based on the growth of the money supply. With which group of economists do you agree? Provide reasons to support your choice.
- **4. Monetary Policy** The Federal Reserve System conducts monetary policy. At one time or another, most presidents have complained about the independence of the Fed. Do you think this independence should be maintained, or that elected officials should have more control over monetary policy? Support your answer.

Math Practice

According to Keynesian economics, what action should government take if business investment fell by \$20 billion? Show your findings using the outputexpenditure model:

GDP = C + I + G + F

Thinking Like an Economist

Both demand-side and supply-side policies are designed to ensure stable economic growth. The approaches differ, however, on what should be done to achieve this goal. Assume that real GDP growth was negative during the last quarter. Make a twocolumn chart. In the left column, list the policies that demand-side economists would follow to help the economy. Place the supply-side solution in the right column. How do they differ?

Technology Skill

Using the Internet Log on to the Internet. Then, using a search engine, type in the following key words:

- John Maynard Keynes
- Unemployment
- Stabilization policies
- Inflation
- Fiscal policy

Print out (or download) any articles or reports on these topics. Using the information you retrieved, prepare a two-paragraph report on each topic listed above-defining the terms and summarizing their significance to economic security. Add a list of Web sites and bibliography entries at the end of your report.

Building Skills

Applying the Writing Process Go to a library to look up advertisements for airfares from 19 years ago. Find out what the current airfares are when traveling to the same locations. Write an essay that explains the effect these price changes may have had on consumers. What might they have to do with the deregulation of the airline industry?

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Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook*, *Level 2*.

International and Global Economics

CONTENTS

CHAPTER 17 International Trade

CHAPTER 18 Comparative Economic Systems

CHAPTER 19 Developing Countries

CHAPTER 20 Global Economic Challenges

Why It's Important

As you read this unit, learn how the study of economics helps answer the following questions:

- Why do imported goods sometimes cost more than domestically produced goods?
- Why did capitalism triumph over communism?
- How do population growth rates on the other side of the world affect you?

464 UNIT 5 INTERNATIONAL AND GLOBAL ECONOMICS

International trade—both the importing and exporting of goods—is essential to the U.S. economy.

10.0

ECONOMICS

CLICK HERE

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To learn more about global economics through information, activities, and links to other sites, visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u>

CHAPTER 17

International Trade

Economics & You

Look at the labels on your clothes, in your shoes, on food products you buy, or even on the car you drive—and you see why international trade is important to everyone. In **Chapter 17**, you will learn about the role international trade plays in the American economy. To learn more about global commerce, view the Chapter 24 video lesson:

International Trade



Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on **Chapter 17—Chapter Overviews** to preview chapter information. **CLICK HERE**

CONTENTS

Tourism is an important part of the global economy.

Absolute and Comparative Advantage

SECTION 1

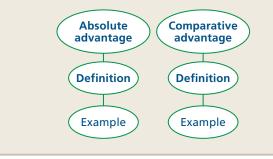
Study Guide

Main Idea

Nations trade according to the theory of comparative advantage.

Reading Strategy

Graphic Organizer As you read the section, complete graphic organizers similar to the ones below by defining each term and providing an example of each.



Key Terms

exports, imports, absolute advantage, comparative advantage

Objectives

After studying this section, you will be able to:

- 1. **Explain** the importance of international trade in today's economy.
- 2. Describe the basis for international trade.
- 3. Explain why total world output increases when countries specialize to engage in trade.

Applying Economic Concepts

Comparative Advantage When you do the chores around the house, you are probably better at some than others. Read to find out how the concept of comparative advantage helps everyone become more productive.

Cover Story

Study: U.S. Still Biggest Arms Provider

WASHINGTON—Worldwide demand is slumping, but that hasn't kept the USA out of the arms business, a congressional study finds. In 1998, the USA led in new arms deals, with \$7.1 billion—



U.S. warship at sea

up from \$5.7 billion the year before. Germany ranked second, with \$5.5 billion in new sales, and France third, with \$3 billion. The value of all new arms sales worldwide was \$23 billion, up from \$21.4 billion the year before. However, the report said that the trend in terms of arms sales has generally been downward, particularly among developing nations, which are the biggest buyers of weapons.

-USA Today, August 6, 1999

CONTENTS

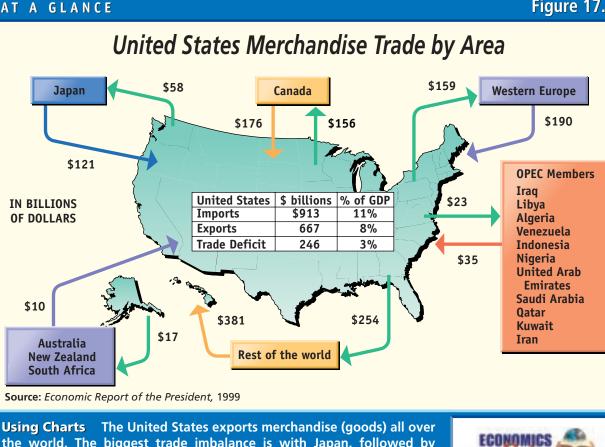
he key to trade–whether among people, states, or countries–is specialization. Some people specialize in cutting hair. Others specialize in fixing computers. These people exchange their services for money, which they then use to buy the specialized goods and services they need from others.

Different regions of a country specialize in certain economic activities in much the same way. New York, for example, is a center of the U.S. financial industry, and Detroit specializes in automobiles. The Midwest and High Plains areas are known for wheat farming. Texas is recognized for oil and cattle, while Florida and California are famous for citrus fruit. All of these states trade with one another so that people in one area can consume the goods and services that workers in other areas offer.

If you want to find out what a country specializes in, look at its **exports**—the goods and services that it produces and then sells to other nations.

ECONOMICS AT A GLANCE

Figure 17.1



CLICK HERE

CONTENTS

the world. The biggest trade imbalance is with Japan, followed by Western Europe and by OPEC members. Which single area of the world trades the most with the United States?

Visit epp.glencoe.com and click on Textbook Updates—Chapter 17 for an update of the data.

The U.S. and International Trade

My International trade is important to all nations, even a country as large as the United States. Most of the products exchanged are goods, although services, such as insurance and banking, are being bought and sold in increasing numbers.

In 1999, imports-goods and services that one country buys from other countries-amounted to about \$1,150 billion. This number corresponds to nearly \$4,200 for every person in the country, and it has grown steadily over the years.

Figure 17.1 shows the merchandise trade patterns for the United States and the rest of the world. As large as these numbers are, they would be even bigger if we counted the value of services in addition to the merchandise, or goods, shown in the figure. The sheer volume of trade between nations of such different geographic, political, and religious characteristics is proof that trade is beneficial.

In fact, nations trade for the same reasons that individuals do-they trade because they believe that the products they receive are worth more than the products they give up.

Without international trade, many products would not be available on the world market. Bananas, for example, would not leave Honduras, nor would coffee beans leave Colombia or Brazil. Some people may think of international trade as a way to obtain exotic products and fancy consumer goods, but trade is much more than that. Many imports are necessities, such as crude oil, clothing, and shoes. In the United States, many minerals, metals, and raw materials that are not available must be imported.

The Basis for Trade

In many cases, it may be cheaper for a country to import a product than to manufacture it. This becomes clear when we examine the difference between absolute and comparative advantage.

Absolute Advantage

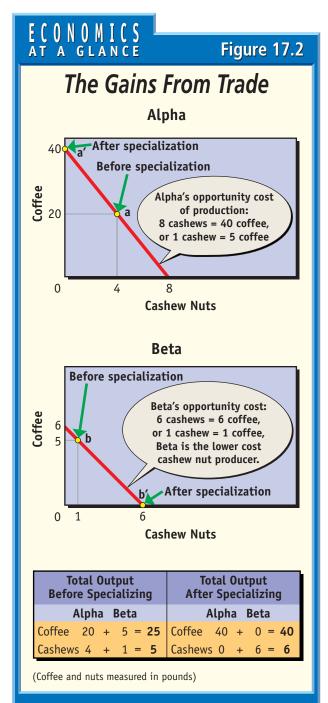
A country has an **absolute advantage** when it is able to produce more of a given product than another country can. Consider, for example, the hypothetical case of two countries–Alpha and Beta–which are the same size in terms of area, population, and capital stock. Only their climate and soil fertilities differ. In each country, only two crops can be grown–coffee and cashew nuts.

Figure 17.2 shows the production possibilities frontiers for Alpha and Beta. Note that if both countries devote all of their efforts to producing coffee, Alpha could produce 40 million pounds and Beta six million–giving Alpha an absolute advantage in the coffee production. However, if both countries devote all their efforts to the production of cashew nuts, Alpha could produce eight million pounds and Beta six million. Alpha, then, also has an absolute advantage in the production of cashew nuts because it can produce more than Beta.

For years, people thought that absolute advantage was the basis for trade because it enabled a country to produce enough of a good to consume domestically while leaving some for export. However, the concept of absolute advantage did not explain how a country with a large output like Alpha could trade with a country having a smaller output like Beta—and yet have both countries benefit from the exchange.

Comparative Advantage

Even when one country enjoys an absolute advantage in the production of all goods—as in the case of Alpha above—trade between it and another



Using Graphs If Alpha and Beta each specializes in the product it can produce relatively more efficiently, total output for both countries goes up. After specialization, each country would trade its surplus production with its neighbor. Does Alpha or Beta have a comparative advantage in the production of coffee?

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CHAPTER 17: INTERNATIONAL TRADE 469

country is still beneficial. This happens whenever a country has a **comparative advantage**—the ability to produce a product *relatively* more efficiently, or at a lower opportunity cost.

To illustrate, because Alpha can produce either 40 pounds of coffee or 8 pounds of cashew nuts, the opportunity cost of producing 1 pound of cashew nuts is 5 pounds of coffee (40 pounds of coffee divided by 8). At the same time, Beta's opportunity cost of producing 1 pound of cashew nuts is 1 pound of coffee (6 pounds of coffee divided by 6). Clearly, Beta is the lower-cost producer of cashew nuts because its opportunity cost of producing 1 pound of nuts is 1 pound of coffee– whereas Alpha would have to give up 5 pounds of coffee to produce the same amount of cashews.

If Beta has a comparative advantage in producing cashews, then Alpha must have a comparative advantage in coffee production. Indeed, if we try to find each country's opportunity cost of producing coffee, we would find that Alpha's opportunity cost of producing 1 pound of coffee is $1/_5$ of a pound of cashews (8 pounds of cashews divided by 40). Using the same computations, Beta's opportunity cost is 1 pound of cashews (6 pounds of cashews divided by 6). Alpha, then, has a comparative advantage in coffee production, because its opportunity cost of production is lower than Beta's.

The Gains From Trade

The concept of comparative advantage is based on the assumption that everyone will be better off producing the products they produce relatively best. This applies to individuals, companies, states, and regions as well as to nations. The final result is that specialization and trade increases total world output, just as in the case of Alpha and Beta.

This explains the nature of trade between the United States and a country such as Colombia. The United States has excellent supplies of iron and coal. It also has the capital and the labor that are needed to produce tractors and farm machinery efficiently. Colombia, in contrast, does not have as much capital or skilled labor. It does, however, have the land, labor, and climate to produce coffee efficiently. Because the United States has a comparative advantage in the production of farm machinery, it will trade these products for Colombian coffee. Because Colombia has a comparative advantage in the production of coffee, it will export coffee and import farm equipment.

For similar reasons, a country like Saudi Arabia produces more crude oil than it can consume– enabling it to export the surplus. The United States, in turn, produces more military aircraft than it consumes–allowing it to sell aircraft to Saudi Arabia in exchange for oil.

Section 1 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea What does the theory of comparative advantage offer as a guideline to countries?
- **2. Key Terms** Define exports, imports, absolute advantage, comparative advantage.
- **3. Explain** why international trade is important in today's economy.
- **4. Compare** the concepts of absolute advantage and comparative advantage.
- **5. Explain** why total world output increases as countries specialize to engage in trade.

Applying Economic Concepts

6. Comparative Advantage If you were to open a business with two of your best friends, how would you divide the work to be done? Would your decisions regarding who does what reflect comparative advantage? Explain.

Critical Thinking

- 7. Making Generalizations Do you know of a product for which your state has a comparative advantage? Explain how this might affect trade with another state.
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

470 UNIT 5 INTERNATIONAL AND GLOBAL ECONOMICS

Profiles Economics

Marketing Savvy: Bill Gates

One unavoidable fact about Bill Gates, cofounder of Microsoft, is that with a net worth of billions of dollars, he is one of the richest men in the world.

Gates is matter-of-fact about the reason for his wealth. "Our success," he says, "is based on only one thing: good products. It's not very complicated." To his many critics, however, the story is not so simple.

A TEENAGE WIZARD

While in high school, Gates designed a class scheduling program so that he could take courses with the prettiest girls in his school. He also started Traf-O-Data, a computer traffic analysis company.

At age 19, Gates dropped out of Harvard University to pursue his interest in computers. He and his friend Paul Allen developed a condensed operating-system language, which they licensed to a computer manufacturer. Based on this success, Gates and Allen established Microsoft Corporation in 1975.

INTO THE BIG LEAGUES

In 1980 computer industry giant IBM asked Gates to develop an operating system for its new personal computer. Gates bought an operating system from a small company, revamped it, and licensed it to IBM. The system was called MS-DOS, for Microsoft Disk Operating System. The key fact is that Gates licensed MS-DOS to IBM-he didn't sell it to them. Because he retained ownership of MS-DOS, he was able to market it to other companies. In 1981 IBM unveiled its PC, setting off the personal computer boom. MS-DOS became the dominant operating system in the market, and propelled Gates to wealth.

When Microsoft went public in 1986, Gates, who owned 45 percent of the company, became a millionaire several hundred times over.

CONTENTS

CONTROVERSIAL SUCCESS

By 1993 Microsoft operating systems ran nearly 90 percent of the world's PCs. Much of Gates's success came from his unique combination of technological expertise and an understanding of the computer needs of the average user. But not everyone attributes Gates's success to know-how and marketing. Many view Gates's Microsoft as an industry bully, forcing wouldbe competitors out of the market. In fact, the Justice Department and many states have pursued antitrust legislation against Microsoft.

Examining the Profile

- 1. Predicting Consequences How might the Microsoft story have been different if Gates had sold MS-DOS to IBM rather than licensing it?
- 2. For Further Research Report the current status of the lawsuits against Microsoft.

Barriers to International Trade

SECTION 2

Study Guide

Main Idea

Tariffs and quotas are two restrictions on international trade.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by describing the differences between a tariff and a quota.



Key Terms

tariff, quota, protective tariff, revenue tariff, dumping, protectionists, free traders, infant industries argument, balance of payments, most favored nation clause, World Trade Organization (WTO), North American Free Trade Agreement (NAFTA)

Objectives

After studying this section, you will be able to:

- 1. **Explain** how international trade can be restricted to protect special interests.
- Cite the main argument used in support of protection.
- 3. Relate the history of the free trade movement.

Applying Economic Concepts

Quotas Do you think the prices of some goods are too high? Read to find out how international trade can help keep some prices low.

Cover Story

US Gets Go-Ahead for European Sanctions

The World Trade Organization yesterday authorized the US to impose trade sanctions on European Union goods in retaliation for the EU's ban on hormone-treated beef.



French delicacies subject to U.S. duties

From July 29, the US will impose punitive 100 percent duties on imports from the EU, including delicacies such as foie gras, truffles, and Roquefort cheese as well as beef, pork, canned tomatoes and mustard.

US officials said last week the sanctions, worth a total of \$116.8 [million] would target goods from France, Germany, Italy and Denmark as these were the countries most influential in preserving the 10-year-old beef hormone ban.

-The Financial Times, July 27, 1999

Ithough international trade can bring many benefits, some people object to it because it can displace selected industries and groups of workers in the United States. The European ban on American hormone-treated beef discussed in the cover story is just one example of attempts to restrict trade.

Restricting International Trade

Historically, trade has been restricted in two major ways. One is through a **tariff**-a tax placed on imports to increase their price in the domestic market. The other is with a **quota**-a limit placed on the quantities of a product that can be imported.

Tariffs

CONTENTS

Governments levy two kinds of tariffs-protective and revenue. A **protective tariff** is a tariff high enough to protect less-efficient domestic industries. Suppose, for example, that it costs \$1 to produce a mechanical pencil in the United States. The exact



STANDARD&POOR'SINFOBYTE

The Trade Balance This term refers to the difference between exports and imports. In the United States, we continue to import more than we export and are therefore experiencing a trade deficit. Because international trade is significant to GDP forecasts, this Department of Commerce statistic is important. The standard release time is around the 22nd of each month.

same product, however, can be imported for 35 cents from another country. If a tariff of 95 cents is placed on each imported pencil, the cost climbs to \$1.30– more than the cost of the American-made one. The result is that a domestic industry is protected from being undersold by a foreign one.

The **revenue tariff** is a tariff high enough to generate revenue for the government without actually prohibiting imports. If the tariff on imported mechanical pencils were 40 cents, the price of the imports would be 75 cents, or 25 cents less than the American-made ones. As long as the two products are identical, people would prefer the imported one because it was less expensive—so the tariff would raise revenue rather than protect domestic producers from foreign competition.

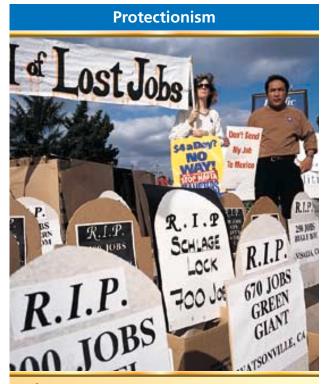
Traditionally, tariffs were used more for revenues than for protection. Before the Civil War, tariffs were the chief source of revenue for the federal government. From the Civil War to 1913, tariffs provided about one-half of the government's total revenue. In 1913 the federal income tax was passed, which gave the government a new and more lucrative source of revenue. Modern tariffs–also called customs duties–only account for a small portion of total government revenue, as shown in **Figure 9.4** on page 232.

Quotas

Foreign goods sometimes cost so little that even a high tariff on them may not protect the domestic market. In such cases, the government can use a quota to keep foreign goods out of the country. Quotas can even be set as low as zero to keep a product from ever entering the country. More typically, quotas are used to reduce the total supply of a product to keep prices high for domestic producers.

In 1981, for example, domestic automobile producers faced intense competition from lowerpriced Japanese automobiles. Rather than lower their own prices, domestic manufacturers wanted President Ronald Reagan to establish import quotas on Japanese cars. The Reagan administration told the Japanese to voluntarily restrict auto exports, and they reluctantly agreed. As a result, Americans had fewer cars from which to choose, and the prices of all cars were higher than they would otherwise have been.

During the Bush administration, "voluntary" import quotas were imposed on steel. The quotas protected jobs in the domestic steel industry, but at the cost of higher steel prices for the rest of the



Jobs These citizens are protesting the loss of manufacturing jobs in the face of competition from other countries. *What is the purpose of a protective tariff*?

CONTENTS

country. A trade crisis emerged in mid-1997 when charges of **dumping**, or selling products abroad at less than it cost to produce them at home, were levied against Japan and Russia.

Other Barriers

Tariffs and quotas are not the only barriers to trade. Many imported foods are subject to health inspections far more rigorous than those given to domestic foods. For years this tactic was used to keep beef grown in Argentina out of the United States. Another tactic is to require a license to import. If the government is slow to grant the license, or if the license fees are too high, international trade is restricted.

The United States is not the only country to use health issues to restrict trade. Many Europeans are reluctant to consume corn, wheat, and other crops that have been genetically altered for superior yield, taste, and disease resistance. A more sensitive case is that of American beef raised on artificial hormones, a product that Europeans refuse to import. While most Americans feel that their food is safe, Europeans are not so sure. After all, they point out, an experiment by U.S. scientists demonstrated that Monarch butterflies died when they ate the pollen from genetically altered corn plants.

Nationalism and culture often play a role in these debates, with Europeans frequently claiming that they prefer regional and traditional foods to genetically altered ones. While these may or may not be legitimate arguments, they do restrict trade between nations.



A Safety Net To minimize the price changes caused by the Arab oil embargoes of the 1970s, the United States in 1977 created the Strategic Petroleum Reserve, to store millions of barrels of oil. The reserve can be used as an emergency supply of oil in case of a complete oil embargo. The reserve holds enough oil to provide a normal level of petroleum use in the United States for 60 days.

Arguments for Protection

Freer international trade has been a subject of debate for many years. Some people, known as **protectionists**, favor trade barriers that protect domestic industries. Others, known as **free traders**, favor fewer or even no trade restrictions. The debate between the two groups usually centers on the five arguments for protection discussed below.

National Defense

The first argument for trade barriers centers on national defense. Protectionists argue that without trade barriers, a country could become so specialized that it would end up becoming too dependent on other countries.

During wartime, protectionists argue, a country might not be able to get critical supplies such as oil and weapons. As a result, even some smaller countries such as Israel and South Africa have developed large armaments industries for such crises. They want to be sure they will have a domestic supply if hostilities break out or other countries impose economic boycotts.

Free traders admit that national security is a compelling argument for trade barriers. They believe, however, that the advantages of having a reliable source of domestic supply must be weighed against the disadvantages that the supply will be smaller and possibly less efficient than it would be with free trade. The political problem of deciding which industries are critical to national defense and which are not must also be considered. At one time, the steel, auto, ceramic, and electronics industries all have argued that they are critical to national defense and so should receive protection.

Promoting Infant Industries

CONTENTS

The **infant industries argument**—the belief that new or emerging industries should be protected from foreign competition—is also used to justify trade barriers. Protectionists claim that these industries need to gain strength and experience before they can compete against developed industries in other countries. Trade barriers would give them the time they need to develop. If infant industries compete against foreign industries too soon, they argue, they might fail.

Many people are willing to accept the infant industries argument, but only if protection will eventually be removed so that the industry is forced to compete on its own. The problem is that industries used to having some protection are normally unwilling to give it up-making for difficult political decisions later on.

To illustrate, some Latin American countries have used tariffs to protect their own infant automobile industries, with tariffs as high as several hundred percent. In some cases, the tariff raised the price of used American-made cars to more than double the cost of new ones in the United States. In spite of this protection, no country in Latin America has been able to produce a competitive product on its own. To make matters worse, governments have come to rely on the revenue supplied by tariffs, so prices for automobiles remain high for their citizens.

International Trade

Expansion With the great expansion of trade, many U.S. companies set up operations in other countries. Protectionists favor trade barriers that protect domestic industries. *What is the assumption behind the infant industries argument?*

Protecting Domestic Jobs

A third argument-and one used most often-is that tariffs and quotas protect domestic jobs from cheap foreign labor. Workers in the shoe industry, for example, have protested the import of lowercost Italian, Spanish, and Brazilian shoes. Garment workers have opposed the import of lower-cost Korean, Chinese, and Indian clothing. Steelworkers have blocked foreign-made cars from company parking lots to show their displeasure with the foreign-made steel used in producing the cars.

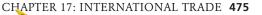
In the short run, protectionist measures provide temporary protection for domestic jobs. This is especially attractive to people who want to work in the communities where they grew up. In the long run, however, industries that find it hard to compete today will find it even harder to compete in the future unless they change the way they are doing things. As a result, most free traders believe that it is best not to interfere, and thereby keep pressure on threatened industries to modernize and improve.

When inefficient industries are protected, the economy produces less and the standard of living goes down. Because of unnecessarily high prices, people buy less of everything, including those goods produced by protected industries. If prices get too high, substitute products will be found and protected jobs will still be lost. Free traders argue that the profit-and-loss system is one of the major features of the American economy. Profits reward the efficient and hard working, while losses eliminate the inefficient and weak.

Keeping the Money at Home

CONTENTS

Another argument for trade barriers claims that limiting imports will keep American money in the United States instead of allowing it to go abroad. Free traders, however, point out that the American dollars that go abroad generally come back again.





THE GLOBAL ECONOMY

The Art of Communication

With the globalization of business, it is necessary to understand and to adjust to the communication style of other cultures.

Only in the Germanic countries will the people be as eager to get down to business as in the United States of America. Almost anywhere else in the world, but especially in Asian and Latin countries, it's important to first get to know the person with whom you're dealing to build a bond of trust. Three f's of business in Asian cultures are family, friends and favors. If you're not part of an extended Asian family or if you don't have close Asian chums from your school days, find the time to develop a friendship with a well-connected intermediary [agent]. Relationships, once formed, are long lasting bonds of loyalty that must be respected....

The Japanese, for example, use the dollars they receive for their automobiles to buy American cotton, soybeans, and airplanes. These purchases benefit American workers in those industries.

The same is true of the dollars used to buy oil from the Middle East. The money comes back to the United States when oil-wealthy foreigners buy American-made oil technology. Keeping the money home also hurts those American industries that depend on exports for their jobs.

Helping the Balance of Payments

Another argument involves the **balance of payments**—the difference between the money a country pays out to, and receives from, other nations when it engages in international trade. Protectionists argue that restrictions on imports help the balance of payments by restricting the amount of imports.

What protectionists overlook, however, is that the dollars return to the United States to stimulate

Space is one of those seemingly inconsequential aspects of human interaction that can have major consequences elsewhere. The American personal bubble of space is much greater than that of an Arab or a Russian, but smaller than that of a Briton. Infringing upon another's personal space or inadvertently backing away when someone enters your bubble can send unintended negative messages. Touching someone—a hand on the forearm, an arm around the shoulder, or a pat on the back—is one of the easiest ways to violate personal space.

-Etiquette International

Critical Thinking

- 1. Analyzing Information What does the writer mean by "space"? Explain the concept in your own words.
- 2. Summarizing Information What does it mean to say that "the American bubble of space is much greater than that of an Arab or Russian"?
- **3. Drawing Conclusions** Why is it important to understand the values of another culture when doing business?

employment in other industries. As a result, most economists do not believe that interfering with free trade can be justified on the grounds of helping the balance of payments.

The Free Trade Movement

The use of trade barriers to protect domestic industries and jobs works only if other countries do not retaliate with their own trade barriers. If they do, all countries suffer because they have neither the benefits of efficient production nor access to less costly products and raw materials from other nations.

Tariffs During the Great Depression

CONTENTS

In 1930 the United States passed the Smoot-Hawley Tariff, one of the most restrictive tariffs in history. It set import duties so high that the price of many imported goods rose nearly 70 percent. When other countries did the same, international trade nearly came to a halt.

Before long, most countries realized that high tariffs hurt more than they helped. As a result, in 1934 the United States passed the Reciprocal Trade Agreements Act, which allowed it to reduce tariffs up to 50 percent if other countries agreed to do the same. The act also contained a **most favored nation clause**–a provision allowing a country to receive the same tariff reduction that the United States negotiates with a third country.

Suppose, for example, that the United States and China have a trade agreement with a most favored nation clause. If the United States then negotiates a tariff reduction with a third country, the reduction would also apply to China. This clause is very important to China, because its goods will then sell at an even lower price in the American market.

The World Trade Organization

In 1947, 23 countries signed the General Agreement on Tariffs and Trade (GATT). The GATT extended tariff concessions and worked to

do away with import quotas. Later, the Trade Expansion Act of 1962 gave the president of the United States the power to negotiate further tariff reductions. As a result of this legislation, more than 100 countries had agreed to reduce the average level of tariffs by the early 1990s.

More recently, the GATT was replaced by the **World Trade Organization (WTO)**—an international agency that administers previous GATT trade agreements, settles trade disputes between governments, organizes trade negotiations, and provides technical assistance and training for developing countries. As you read in the cover story, the WTO agreed that Europe was discriminating against the United States by banning hormone-treated beef. While the WTO normally opposes retaliatory measures, it approved the U.S. measures because the European Union ignored earlier WTO demands to drop American beef restrictions.

Because so many countries have been willing to reduce tariffs and quotas under GATT and the WTO, international trade is flourishing. Tariffs that once nearly doubled the price of many goods now increase prices by a small percentage, while other tariffs have been dropped altogether. As a result,

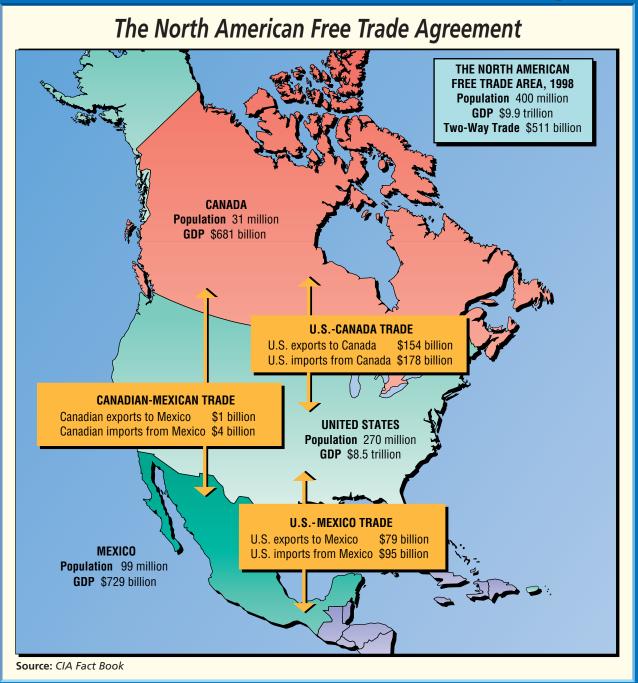


CONTENTS

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ECONOMICS AT A GLANCE

Figure 17.3



Using Maps The North American Free Trade Agreement (NAFTA) makes up the second largest free-trade area in the world, after the European Union. After NAFTA was implemented, trade between the three nations began to grow by 10 to 15 percent annually. Do imports or exports comprise the larger portion of Mexico's trade with Canada and the United States?

Visit epp.glencoe.com and click on Textbook Updates—Chapter 17 for

ECONOMICS

an update of the data.

CLICK HERE

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stores are able to offer a wide variety of industrial and consumer goods from all over the world.

NAFTA

The **North American Free Trade Agreement** (NAFTA) is an agreement to liberalize free trade by reducing tariffs among three major trading partners: Canada, Mexico, and the United States. It was proposed by the Bush administration and concluded by the Clinton administration in 1993.

Before NAFTA, United States goods entering Mexico faced an average tariff of 10 percent. At the same time, approximately half of the goods entering the United States from Mexico were dutyfree, while the other half faced an average tax of only 4 percent. Exceptions did exist, however. A 32 percent tariff on brooms imported from Mexico protected approximately 3,000 broom makers in southern Illinois.

Free trade is good in general, but it is not painless. NAFTA was controversial specifically because some workers would be displaced when trade barriers were lowered. Opponents predicted that some high-paid American jobs would be lost to Mexicoincluding those held by broom makers who will find their protective tariff reduced to zero over a 15-year period. Proponents predicted that trade among all three nations would increase dramatically, stimulating growth and bringing a wider variety of lower-cost goods to everyone, protectionists and free traders alike.

The case for freer trade is a classic case of costbenefit analysis. Some of the costs and benefits identified during the NAFTA debate actually occurred, but not to the extent originally predicted. Trade among the three countries has grown dramatically since NAFTA was created. In the end, freer trade allowed the NAFTA partners to capitalize on their comparative advantages for everyone's benefit.



Student Web Activity Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 17—Student Web Activities* for an activity on the World Trade Organization.

Section 2 Assessment

CONTENTS

Checking for Understanding

- Main Idea Explain why protectionists favor tariffs and quotas.
- 2. Key Terms Define tariff, quota, protective tariff, revenue tariff, dumping, protectionists, free traders, infant industries argument, balance of payments, most favored nation clause, World Trade Organization (WTO), North American Free Trade Agreement (NAFTA).
- **3. Describe** three barriers to international trade.
- **4. List** five arguments that are commonly used to support the protectionist argument.
- **5. Identify** two attempts to facilitate the growth of international trade.

Applying Economic Concepts

6. Quotas Explain how a quota on a good or service produced in your community can protect the jobs in a particular industry. Then explain how the same quota might be harmful to consumers.

Critical Thinking

- 7. Drawing Conclusions If you were a member of Congress approached by a delegation of autoworkers seeking additional tariff or quota protection, how would you respond? Defend your response.
- **8. Analyzing Information** Explain the infant industries argument.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

JULY 27, 1998

The North American Free Trade Agreement (NAFTA), is a free trade pact. The trading area includes Canada, the United States, and Mexico. NAFTA has created one of the world's most productive economic blocs, rivaled only by the European Union and by Japan.

NAFTA and Change in Mexico

For the first time, Mexico this year overtook China as the No. 1 supplier of clothing and textiles to the U.S....

Spurred by the North American Free Trade Agreement (NAFTA), the surge in apparel exports has touched off an investment boom. Not only are manufacturers expanding their lowwage plants, but they are building high-tech operations to spin fibers and weave fabrics....

To encourage the growth of the industry, Mexico is trumpeting both its proximity to the U.S. and the benefits of NAFTA to potential investors... Although Mexican garment workers start at about \$6 a day-double their Chinese counterparts-manufacturers save on the three- to four-week shipping time from the Far East. Mexican garments are trucked to the U.S. border in two to three days-a crucial difference in the time-sensitive garment business. And NAFTA has eliminated U.S. import quotas on garments made from fabric produced in North America...

Newsclip



Clothing factory, Aguascalientes, Mexico

Meanwhile, several U.S. producers are building new mills in Mexico rather than expand at home. Guilford Mills, Inc., a Greensboro (N.C.) manufacturer, is spending \$100 million on a knitting, dyeing, and finishing plant in the Gulf Coast port of Altamira....

As the foreign-owned companies rev up their export machines in Mexico, savvy local producers are making sure they win, too. Denim producer Compañía Industrial de Parras expects to boost its exports to \$146 million this year, up 13 times since the start of NAFTA in 1994. It all signals a new era for the Mexican industry-and shows how NAFTA is reshaping North America's economy.

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Examining the Newsclip

CONTENTS

- **1. Analyzing Information** What are manufacturers doing as a result of the increase in apparel exports?
- 2. Understanding Cause and Effect How has NAFTA helped the growth of the garment industry in Mexico?

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Financing and Trade Deficits

SECTION 3

Study Guide

Main Idea

A long-lasting trade deficit affects the value of a nation's currency and the price and volume of its exports and imports.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by describing the effects of a long-lasting trade deficit.



Key Terms

foreign exchange, foreign exchange rate, fixed exchange rate, flexible exchange rate, trade deficit, trade surplus, trade-weighted value of the dollar

Objectives

After studying this section, you will be able to:

- 1. Explain how foreign currency is used in trade.
- 2. **Describe** the problem of a trade deficit and the main solution to the problem.

Applying Economic Concepts

Foreign Exchange Do you have any souvenir foreign currency such as pesos, pounds, or yen? Read to find out how this foreign exchange is used to finance international trade.

Cover Story

Quaking Before the Fed

No place has more to fear from every twitch of U.S. monetary policy than Hong Kong. Its currency is rigidly pegged to the U.S. dollar, and when U.S. interest rates go up, Hong Kong's must



Boeing 747 flies over Kowloon peninsula

go up, Hong Kong's must follow. With the economy in its worst recession in half a century, Hong Kong can ill afford higher rates, although the Federal Reserve is now leaning in that

direction.... [In Hong Kong, the] grinding process of deflation continues. Property prices are down about 50% from their mid-1997 peak... the government expects consumer prices to fall 2.5% for all of 1999... real interest rates [are] more than 8% ... the benchmark Hang Seng stock index is ... 26% below its August 1997, peak, and higher interest rates could knock [the current modest] recovery off track.

-Business Week, June 21, 1999

rade between nations is similar to exchange between individuals. The major difference is that each country has its own monetary system, which makes the exchange more complicated. The value of some currencies, like the Hong Kong dollar in the cover story, is tied to the value of the U.S. dollar in the hope of simplifying international trade.

Financing International Trade

Scenarios like the following occur every day across the globe. A clothing firm in the United States wants to import business suits from a company in Great Britain. Because the British firm pays its bills in a currency called "pound sterling," it wants to receive payment in sterling. Therefore, the American firm must exchange its dollars for British pounds.

Foreign Exchange

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In the field of international finance, **foreign exchange**–foreign currencies used to facilitate international trade–are bought and sold in the foreign exchange market. This market includes banks that help secure foreign currencies for importers, as well as banks that accept foreign currencies from exporters.

Suppose that one pound sterling, $\pounds 1$, is equal to \$1.62. If the business suits are valued at $\pounds 1,000$ in London, the American importer can go to an American bank and buy a $\pounds 1,000$ check for \$1,620 plus a small service charge. The American firm then pays the British merchant, and the suits are imported.

ECONOMICS Figure 17.4 AT A GLANCE Foreign Exchange Rates **Exchange Rates** Thursday, August 10 U.S. \$ Currency Country equiv. per U.S. \$ Argentina (Peso)...... 1.0010 0.9990 Australia (Dollar)..... 0.6518 1.5342 0.6194 Britain (Pound) 1.6145 Canada (Dollar) 0.6680 1.4970 512.25 Chile (Peso)..... 0.001952 8.2771 China (Renminbi) 0.1208 Czech. Rep. (Koruna) Commercial rate..... 0.02956 33.825 Finland (Markka)..... 0.1801 5.5511 France (Franc) 0.1633 6.1241 Germany (Mark)..... 0.5476 1.8260 Israel (Shekel)..... 0.2372 4.2166 Japan (Yen) 0.008705 114.87 Mexico (Peso) Floating rate..... 0.1051 9.5190 24.550 Russia (Ruble)..... 0.04073 South Korea (Won)..... 0.000834 1199 Taiwan (Dollar)..... 0.03114 32.109

Reading the Financial Page Exchange rates are set according to the demand and supply of different types of money. About how many Japanese yen equal one U.S. dollar? American exporters sometimes accept foreign currency or checks written on foreign banks for their goods. They deposit the payments in their own banks, which helps the American banking system build a supply of foreign currency. This currency then can be sold to American firms that want to import goods from other countries. As a result, both the importer and the exporter end up with the currency they need.

The **foreign exchange rate** is the price of one country's currency in terms of another country's currency. The rate can be quoted in terms of the United States dollar equivalent, as in \$1.61 = \$1, or in terms of foreign currency per United States dollar, as in \$0.6194 = \$1. The rate is reported both ways, as shown in the foreign currency listings in **Figure 17.4**.

Fixed Exchange Rates

Today, two major kinds of exchange rates existfixed and flexible. For most of the 1900s, the world depended on **fixed exchange rates**—a system under which the price of one currency is fixed in terms of another so that the rate does not change.

Fixed exchange rates were popular when the world was on a gold standard. Gold served as the common denominator that allowed comparisons of currencies, and it also kept exchange rates in line. For example, suppose that a country allowed its money supply to grow too fast and that some of the money was spent on imports. Under a gold standard, the countries receiving the currency had the right to demand that it be converted into gold. Because no country wanted to lose its gold, each country worked to keep its money supply from growing too fast.

CYBERNOMICS SPOTLIGHT

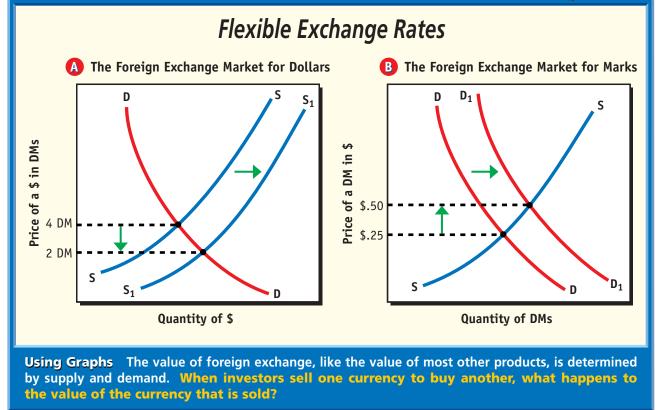
Economic Espionage

CONTENTS

Economic espionage is on the increase as trade grows between countries. Economic espionage is the stealing of technology secrets. In order to be competitive, many countries are tempted to steal the secrets of another to avoid paying the high costs of research and development. Fax machines, cellular phones, and the Internet make it easier than ever to commit economic espionage.

ECONOMICS AT A GLANCE

Figure 17.5



CONTENTS

This practice worked until the early 1960s when the United States developed a huge appetite for imports. During that time, it bought large quantities of foreign goods with dollars. At first, foreign countries willingly held dollars because they were acceptable as an international currency, so only a portion of these dollars came back when other countries bought American exports.

As dollars began to pile up in the rest of the world, many countries wondered if the United States could honor its promise that the dollar was "as good as gold." Eventually France and several other countries started redeeming their dollars, which drained U.S. gold reserves. As a result, President Richard Nixon announced that the United States would no longer redeem foreignheld dollars for gold in 1971. This action saved the gold stock, but it also angered many foreign governments that were planning to cash their American dollars into gold.

Flexible Exchange Rates

When the United States stopped redeeming foreign-held dollars for gold, the world monetary system went to a floating or flexible rate system. Under flexible exchange rates, also known as floating exchange rates, the forces of supply and demand establish the value of one country's currency in terms of another country's currency.

Figure 17.5 shows how flexible exchange rates work. In 1971, for example, the price of the dollar was four German marks (DM) as shown in **Panel A**. Alternatively, we could say that the price of one DM was \$0.25 as shown in **Panel B**.

Suppose now that an American car dealer wanted to purchase Volkswagens that could be bought for 12,000 DMs in Germany. To obtain a single car, the American importer would have to sell \$3,000 in the foreign exchange market to obtain the 12,000 DMs needed to buy the Volkswagen. This would simultaneously increase the supply of dollars shown in **Panel A** and the demand for DM in **Panel B**. Eventually the continuing American demand for foreign products would push the value of the dollar down to 2 DM, and its reciprocal, the price of the DM, up to \$0.50.

When the dollar reaches 2 DMs, the price of the Volkswagen is much less competitive. This is because the importer now has to pay \$6,000 to obtain the 12,000 DMs needed to purchase the car. Excessive imports thus cause the value of the dollar to decline, making imports cost more.

This may be bad news for U.S. importers, but it is good news for exporters. A German firm that bought American soybeans at \$6 a bushel before 1971, for example, would have paid 24 DMs for each bushel. After the value of the dollar fell, it had to pay only 12 DMs for each bushel. As a result, soybeans were cheaper, and more could be sold abroad.

The system of flexible exchange rates has worked relatively well. More importantly, the

Careers



Sociologist

Sociologists study the development, interaction, and behavior of organized groups as well as various social, religious, and business organizations.

The Work

Sociologists may work for the government, universities and colleges, and in private business. Duties include gathering firsthand information from

people. They prepare reports to be used in comparative studies of similar programs in other communities. Sociologists derive conclusions about the effectiveness of programs that can lead to formulating policy.

Qualifications

Sociologists must be skilled in research and analysis and possess the ability to communicate ideas clearly. A master's degree in sociology is a requirement.

switch to flexible rates did not interrupt the growth in international trade as many people had feared. More countries trade with one another today than ever before.

Trade Deficits and Surpluses

A country has a **trade deficit** whenever the value of the products it imports exceeds the value of the products it exports. It has a **trade surplus** whenever the value of its exports exceeds the value of its imports. Each is dependent on the international value of its currency.

The International Value of the Dollar

Ever since floating rates became standard in 1971, the Federal Reserve System has kept a statistic that measures the international value of the dollar. Called the **trade-weighted value of the dollar**, it is an index showing the strength of the dollar against a group of foreign currencies. When the index falls, the dollar is weak in relation to other currencies. When the index rises, the dollar is strong.

When the dollar reached strong levels in 1985, foreign goods became less expensive, and American exports became more costly for the rest of the world. As a result, imports rose, exports fell, and the United States suffered record trade deficits in 1986 and 1987. The value of the dollar remained relatively stable throughout the early 1990s, and then rose late in the decade when the rest of the world, especially countries in Asia, experienced an economic downturn. The stronger dollar led to another record trade deficit in late 1999.

The Effect of a Trade Deficit

A persistent trade imbalance tends to reduce the value of a country's currency on foreign exchange markets. The devalued currency then causes a chain reaction that affects income and employment in that country's industries.

To illustrate, the large deficit in the United States balance of payments in the mid-1980s and late 1990s flooded the foreign exchange markets with dollars. An increase in the supply of dollars, as illustrated by the supply and demand curves in **Figure 17.5**, causes the dollar to lose some of its



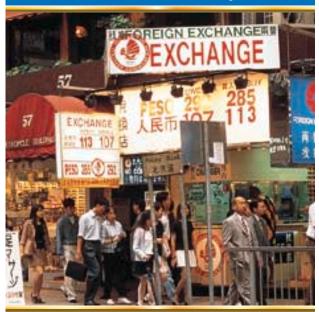
value. The weaker dollar causes unemployment to rise in import industries as imports become more expensive, and it causes unemployment to go down in export industries as their goods become more competitive.

Eventually the dollar will get strong again as foreigners sell their currency in order to buy dollarsthereby reversing the patterns of unemployment. As the dollar gets stronger, export industries will have a more difficult time and import industries will begin to recover. The economy may adjust slowly to changes in the value of the dollar, but the adjustments do take place.

As a result, the shift in employment between import and export industries is one of the biggest problems with a trade deficit. In the automobile industry, for example, Japanese cars once undercut the price of cars being produced in Detroit, causing severe unemployment for both domestic autoworkers and domestic car dealerships. As the Japanese yen rose against the dollar in the early 1990s, however, the price of Japanese cars increased, making domestic automobiles more attractive and restoring some of the employment in that industry.

Under flexible exchange rates, trade deficits tend to automatically correct themselves through the price system. A strong currency generally leads to a deficit in the balance of payments and a subsequent decline in the value of the currency. A

The Global Economy



Value of Currency Exchange When the value of the dollar goes up, American exports go down and imports rise. What causes the value of the dollar to fluctuate?

weak currency tends to cause trade surpluses, which eventually pull up the value of the currency. As a result, the United States and many other countries no longer design economic policies just to improve their trade position.

Section 3 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** What is the relationship between the international value of the dollar and foreign trade?
- 2. Key Terms Define foreign exchange, foreign exchange rate, fixed exchange rate, flexible exchange rate, trade deficit, trade surplus, trade-weighted value of the dollar.
- **3. Describe** how foreign exchange is used in trade.
- **4. Explain** how trade deficits correct themselves under flexible exchange rates.

Applying Economic Concepts

5. Foreign Exchange How does a weak American dollar affect you as a consumer? How does a strong dollar affect you?

Critical Thinking

- **6. Making Generalizations** How do exchange rates influence international trade?
- **7.** Making Comparisons Explain the difference between a fixed exchange rate and a flexible exchange rate.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CRITICAL THINKING



Drawing Inferences and Conclusions

To *infer* means to evaluate information and arrive at a conclusion. When you make inferences, you "read between the lines," or draw conclusions that are not stated directly in the text. You must use the available facts *and* your own knowledge and experience to form a judgment or opinion about the material.



International flags, airport display

Learning the Skill

Use the following steps to help draw inferences and make conclusions:

- Read carefully for stated facts and ideas.
- Summarize the information and list the important facts.
- Apply related information that you may already know to make inferences.
- Use your knowledge and insight to develop some conclusions about these facts.

Practicing the Skill

Read the passage below, then answer the questions that follow.

From its beginnings until the mid-1860s, the United States encouraged trade with other nations, protecting only a few industries from foreign competition. We encouraged the world to buy American agricultural products and traded for manufactured goods. Beginning in the 1860s, Northern industrial interests in control of the government passed high protective tariffs to prevent foreign competition from threatening our young industries. With some fluctuations, these tariffs remained high until the 1930s, when President Franklin Roosevelt tried to increase trade by lowering tariffs and encouraging our trading partners to do the same.

When World War II ended, the United States knew it would be necessary to help Europe rebuild its economy. The government did this through the Marshall Plan, which provided the resources needed to reconstruct European economies. Along with other nations, the United States set up a World Bank for Reconstruction and Development from which all nations could borrow. The United States also led the development of the International Monetary Fund, so that nations could borrow foreign currencies in short-term loans in order to trade. Finally, the United States helped organize the General Agreement on Tariffs and Trade (GATT). Under this agreement, nations meet regularly to discuss mutual tariff policies.

- 1. What events does the writer describe?
- 2. What facts are presented?
- **3.** What can you infer about the effects of the Marshall Plan on relations between the United States and Europe today?
- **4.** What conclusion can you make about U.S. trade policy?

Application Activity

CONTENTS

Study the statistics in Figure 17.1 on page 468. From the data, what can you infer about U.S. trade with Canada? Why does this relationship exist?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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Section 1

Absolute and Comparative Advantage (pages 467–470)

• The United States is extensively involved in international trade, with the average American spending more than \$4,200 per year for **imports** in the form of goods and services.



- **Absolute advantage** means that a country can produce more of a good than another country can.
- The basis for trade today is **comparative advantage.** If people and countries specialize in the things they produce relatively more efficiently, and if they engage in trade to secure the things they do not produce, then total world output will increase.

Section 2

Barriers to International Trade

(pages 472-479)

- Barriers to trade include **tariffs**, **quotas**, licensing, health certifications, and voluntary quotas, all of which have been used to restrict the free flow of products.
- **Protectionists** support trade barriers on the grounds of national defense, **infant industries**, protecting domestic jobs, keeping the money at home, and helping the **balance of payments**.
- **Free traders** believe that all of these arguments are flawed, with the possible exception of the infant industries argument.
- High tariffs were one of the causes of the Great Depression, although the world has moved toward freer trade since then.

- The **most favored nation clause** is important to many countries because it gives them the same tariff reductions that the United States negotiates with other trading nations.
- The GATT was established in 1947 and has evolved into the **World Trade Organization (WTO)**, which administers GATT agreements, promotes freer trade, and helps settle disputes between governments.
- The North American Free Trade Agreement (NAFTA) will eventually remove all trade barriers among Canada, Mexico, and the United States.



Section 3

Financing and Trade Deficits

(pages 481-485)

CONTENTS

- Foreign exchange is the lifeblood of international trade; its value is determined in foreign exchange markets where currencies are bought and sold.
- Most countries use a system of **floating** or **flexible exchange rates**, meaning that supply and demand determine the currency's value.
- Some smaller countries also use a system of **fixed exchange rates**, which ties the value of their currency to a major currency like the U.S. dollar.
- The large **trade deficits** in the United States in the mid-1980s were partially caused by a strong dollar, resulting in unemployment in the export industries; the country would have had a **trade surplus** if the value of its exports had exceeded the value of its imports.
- Because deficits tend to be self-correcting, most nations no longer design economic policies just to improve the balance of payments.

Chapter 17 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 17—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

For each of the pairs of terms below, write a sentence or short paragraph showing how the two are related.

- 1. absolute advantage comparative advantage
- 2. balance of payments trade deficit
- 3. balance of payments flexible exchange rates
- 4. trade deficit trade surplus
- 5. foreign exchange flexible exchange rates
- 6. protectionist infant industries
- 7. protective tariff revenue tariff
- 8. tariff quota
- 9. trade deficit trade-weighted value of the dollar

Reviewing the Facts

Section 1 (pages 467–470)

- **1. Describe** the extent of United States involvement in world trade.
- **2. Describe** a case in which the United States might have an absolute advantage over another country in the production of a good.

3. Explain how comparative advantage can make trade between countries of different sizes possible.

Section 2 (pages 472–479)

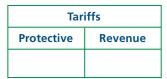
- 4. Name three barriers to international trade.
- 5. Describe five protectionist arguments.
- **6. Describe** the role of the WTO in the free trade movement.

Section 3 (pages 481–485)

- **7. Differentiate** between fixed and flexible exchange rates.
- **8. Explain** how deficits can be self-correcting when currency values are flexible.

Thinking Critically

- **1. Drawing Conclusions** Do you favor protection as a national trade policy? Why or why not?
- **2. Making Comparisons** What is the difference between a protective tariff and a revenue tariff? Use a graphic organizer similar to the one below to help you organize your answer.



- **3. Analyzing Information** Some people feel the United States should return to a system of fixed exchange rates. Defend or oppose this view. Cite examples to support your position.
- **4. Understanding Cause and Effect** Does the protection of inefficient industries hurt an economy? Why or why not?
- **5. Making Comparisons** How might the issue of protectionism differ for a worker and a consumer? Use examples to support your argument.

CONTENTS

488 UNIT 5 INTERNATIONAL AND GLOBAL ECONOMICS

Applying Economic Concepts

- **1. Comparative Advantage** Think of a project you recently completed with a friend. How could you have completed the project more efficiently, applying the principle of comparative advantage? Explain.
- **2. Quotas** You have just started a business manufacturing toothbrushes. Would you favor a quota on imported toothbrushes? Why or why not?
- **3. Foreign Exchange** Explain how doubling the \$400 tax-free limit on goods brought in from abroad by American citizens would affect the balance of payments.
- **4. Interdependence** How does the lack of certain raw materials force nations to become interdependent?

Math Practice

Suppose you are planning a trip to Russia and plan to bring \$500 in spending money. If the exchange rates in **Figure 17.4** prevail at the time of your departure, how many rubles would you have after you exchanged your dollars for rubles? If you spent 5,000 rubles while you were there, and if you converted the rest of the rubles back to dollars when you came home, how many dollars would you have?

Thinking Like an Economist

Assume that the country is running a large trade deficit. What predictions would you make about future changes in the value of the dollar in the foreign exchange markets. Would these developments be a matter of concern?

Technology Skill

Using E-Mail During the course of one day, make a note of at least 10 manufactured items you handle, such as your clothing and the cafeteria trays used in

your school. Find out where each item is produced, and make a log of the items, noting whether each is domestic or foreign made.

Next, write a persuasive argument explaining your opinion on international trade. In writing a persuasive argument, it is important to state the issue clearly and to give your position on it.

Use the evidence you gathered in your log notes to support your position and to refute any opposing position. Use other sources to identify evidence that will help you establish your claim. Conclude your argument by restating your position and summing up the evidence.

Finally, e-mail your argument to the editor of a newspaper or magazine. One day soon, you may see your argument in print!

Building Skills

Drawing Inferences and Conclusions Read the following passage about U.S. trade with other nations. Use the stated facts and your own knowledge to answer the questions that follow.

In the early 1980s, American producers found it increasingly difficult to sell their products to other countries. At least part of this problem was the result of the high value of the dollar. To buy American products, foreign nations must trade their currency for dollars. When the dollar's value is too high, foreign nations receive fewer dollars in exchange for their money. Beginning in the mid-1980s, the value of the dollar declined in relation to foreign currencies. That was like putting American products on sale to foreign buyers. U.S. exports increased sharply.

- 1. What is the main topic of the passage?
- 2. What facts are presented?

CONTENTS

- 3. From this passage, what can you infer about fluctuations in U.S. trade?
- 4. What fact(s) or observations helped you make this inference?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

CHAPTER 18

WASHING MACHINE Comparative **Economic System**

Supteme moourt

Economics & You

The freedom to use your own tools and labor in pursuit of profits is one of the primary features of capitalism. In Chapter 18, you will learn that capitalism is more than an ideology. It is the way we live and the way the world is headed. To learn more about different systems the of economics, view the Chapter 25 video lesson:

Comparative Economic Systems

ECONOMICS

Chapter Overview Visit the Economics: Principles and Practices Web site at epp.glencoe.com and click on Chapter 18-Chapter Overviews to preview chapter information.

CLICK HERE

VCR - VCP

This scene of the city of Jaipur in northwest India shows a blend of traditional and modern life.

The Spectrum of Economic Systems

SECTION 1

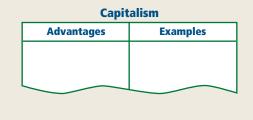
Study Guide

Main Idea

Capitalism, socialism, and communism are historically three popular economic systems.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing six advantages of capitalism and providing an example of each.



Key Terms

capitalism, socialism, communism

Objectives

After studying this section, you will be able to:

- 1. Explain the advantages and disadvantages of capitalism.
- Describe the differences among the doctrines of socialism, capitalism, and communism.
- 3. Compare the features of communism to other types of economic systems.

Applying Economic Concepts

Surplus Value Have you ever felt that the value of your work was much more than your wage? If so, you have something in common with Karl Marx, who founded communism and introduced the concept of surplus value that is extracted from labor.

Cover Story

Sweden Pays the Price of High Taxes

STOCKHOLM—Electrolux AB, the big Swedish appliance maker, scoured the globe for a person to set up a new data-



Stephan Carlquist

person to set up a new data processing division last year before finding Stephan Carlquist, a Swede and senior executive at ABB Asea Brown Boveri in the United States.

Persuading him to jump to Electrolux was no problem, but bringing him to Sweden, home of the industrialized world's highest tax rates, was another matter. Instead, Mr. Carlquist set up shop in London, where taxes are lighter. . . .

Over the next year, he plans to build a multinational team of as many as 50 people—few of them Swedes.... "It's very hard to attract skilled, international people to Sweden." Mr. Carlquist said.

-International Herald Tribune, March 16, 1999

CONTENTS

Throughout most of the 1900s, the world's developed nations fell into three categories of economic systems-communism, socialism, and capitalism. Communist countries were closely associated with command economies, capitalist countries were most similar to market economies, and socialist countries had a combination of both command and market economies. Sweden is an example of a country with a strong socialist tradition, and-as you read in the cover story-the high taxes that go along with it.

The three basic types of economic systems are shown in **Figure 18.1**. At the far left is communism, in which a strong central government influences almost every economic decision. At the far right is capitalism, in which government has a limited role. As one moves from left to right along the spectrum, both the ownership of resources and the degree of government involvement in the operation of the economy change. No lines separate communism, socialism, and capitalism. They appear on the spectrum as having a greater or lesser degree of government involvement and private ownership of resources.

Capitalism

Under **capitalism**, the means of production are privately owned. Supply and demand determine prices, and businesses are free to direct resources into activities that promise the greatest profits.

Advantages of Capitalism

One of the main advantages is efficiency. If there are many buyers and sellers, if resources are reasonably mobile, and if buyers and sellers are reasonably well informed, then resources will be directed to their most profitable and efficient use.

Another advantage is freedom, which gives consumers the opportunity to purchase the goods and services that best satisfy their preferences. Producers also have the freedom to direct productive resources into activities that consumers demand most. Producers have the incentive to do so because of the profit motive, and because private property rights allow them to keep the fruits of their efforts.

A third advantage is that capitalism is highly decentralized. Consumers and producers jointly answer the WHAT, HOW, and FOR WHOM questions all societies face. This is made possible because of the price system, which sends signals to both producers and consumers. The decentralized nature of decision making leads to the fourth advantage. Specifically, the role of government in the economy is much smaller.

The fifth advantage is the high degree of consumer satisfaction that comes from the variety of products that are produced to satisfy consumer demands. The sixth advantage is the flexibility to accommodate change. When consumer preferences change, or when the price of resources changes, signals are sent through the price system and everyone adjusts accordingly.

The most visible result of these advantages is the enormous amount of wealth that capitalist nations have accumulated. With few exceptions, the countries that have the highest living standards and per-capita incomes today are ones with marketbased capitalist economies.

Disadvantages of Capitalism

Capitalism has its disadvantages. Although it is efficient in satisfying the demands of consumers, it does not always satisfy everyone's needs. At a collective level, capitalism ignores the production of many public goods such as roads, public schools, a system of justice, and national defense. Instead, the market produces private goods and services—items that can be withheld if people refuse to pay for them.

At an individual level, capitalism produces only for those who have demand, which means the ability and willingness to pay. A system of pure capitalism would ignore poor people, the unemployed, and less productive members of society like the elderly.

Socialism

Socialism is an economic system in which government owns and runs some of the basic productive resources in order to distribute output in ways deemed to be in the best interest of society. Most socialist societies are democracies in which elected officials direct the allocation of resources in key industries.

Advantages of Socialism

Socialism addresses the FOR WHOM question directly. Those who are not fortunate or productive enough to earn a competitive income still share in the benefits of society. Although the government owns the majority of productive resources in a socialist society, people use their electoral power to influence many of the WHAT, HOW, and FOR WHOM questions.

Disadvantages of Socialism

CONTENTS

Socialism is normally less efficient than capitalism. If workers receive government guarantees of jobs, more workers will be hired than are necessary, driving up the cost of production. The

ECONOMICS AT A GLANCE

Figure 18.1

The Spectrum of Economic Systems **COMMUNISM** SOCIALISM **CAPITALISM Directed by Command Directed by the Free Market Ownership of Resources** Basic productive resources All productive Productive resources resources are are government owned and are privately aovernment owned operated; the rest are privately owned and operated. and operated. owned and operated. Allocation of Resources Centralized Government plans ways Capital for production is planning directs to allocate resources in obtained through the lure all resources. key industries. of profits in the market. Role of Government Government directs the Government makes Government may all economic completion of its economic promote competition and decisions. plans in key industries. provide public goods.

Using Charts The distinguishing feature of economic systems is the ownership of the factors of production and the role of government in deciding WHAT, HOW, and FOR WHOM to produce. **How is capital for production acquired under capitalism?**

CONTENTS

government also has an incentive to keep these workers employed—even if they are not all needed—to show that the government is providing jobs for everyone.

Because the government provides a broader range of services such as health care, education, and welfare, taxes are generally higher in socialist countries. This often causes the type of labor mobility problems discussed in the cover story– where workers may be reluctant to work in countries with such high taxes.

Communism

In its purest form, **communism** is a political and an economic framework where all property is collectively owned, labor is organized for the common advantage of the community, and everyone consumes according to their needs.

To date, no modern country has achieved the ideal of pure communism. Countries such as Cuba, North Korea, and the former Soviet Union instead developed rigid command-type economies where

the state-usually represented by a single authoritarian party-claims the ideal of pure communism as its eventual goal.

Advantages of Communism

One of the main advantages of communism, from the typical worker's point of view, is that of equality. Because everyone is theoretically equal, the wages of workers from the assembly line in the factory to the surgeon in the hospital are nearly identical.

To make up for the lack of purchasing power, the state provides a broad range of public goods such as health care, transportation, education, and a military defense system. These services are normally supplied at little or no cost.

A third advantage is the lack of uncertainty concerning careers and job security. This is because the state directs workers into their jobs, and workers are not fired or dismissed as they could be in other societies.

A fourth advantage is that the centralized control allows the economy to shift directions in a relatively short period of time. In the case of the former Soviet Union, the entire economy changed from a relatively underdeveloped agrarian nation to an advanced industrial one in the course of a few short decades.

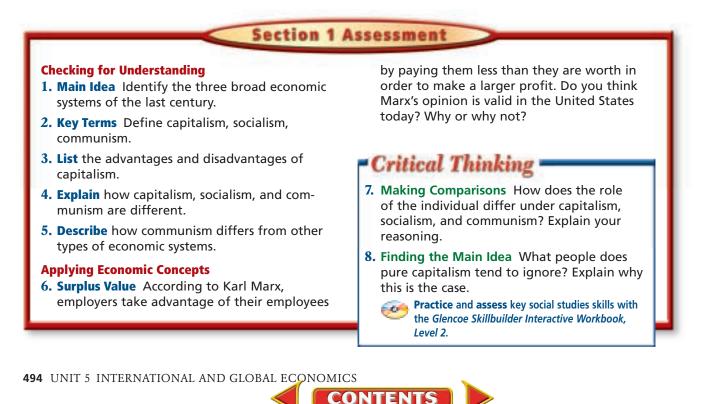
Disadvantages of Communism

One of the first disadvantages of communism is that individual freedom is lost. People have little or no say in their jobs, and economic planners determine even the choice of occupation.

Communism also lacks effective incentives that encourage people to work hard. Most people receive the same pay regardless of how hard they work.

Communism generally fails to meet the needs and wants of consumers, primarily because the WHAT to produce question is determined by central planners. Most communist states place a high priority on military preparedness, resulting in the neglect of consumer goods that are highly prized in other parts of the world.

One of the biggest drawbacks to communism is the inefficiency of centralized planning. The resources needed to execute the planning, and the overwhelming obstacles to effective execution, are serious problems that countries encounter after reaching a certain size. Finally, communist economies, like most command economies, lack the flexibility to deal with day-to-day changes.



TECHNOLOGY

Ski

Using a Database

A computerized database program can help you organize and manage a large amount of information. After entering data in a database table, you can quickly locate the information according to key words.

Learning the Skill

An electronic database is a collection of facts that are stored in a file on the computer. The information is organized into categories called *fields*. For example, one field may be the names of your clients. Another field may be the street addresses of your clients. All the related fields make up a record. Together, all the records make up the database.

A database can be organized and reorganized in any way that is useful to you. By using a database management system (DBMS)-or special software developed for record keeping-you can easily add, delete, change, or update information. When you want to retrieve information, the computer searches the files, finds the information, and displays it on the screen.

Practicing the Skill

Follow these steps to build a database on economic reform in China.

1. Determine what facts you want to include in your database and research to collect that information.



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Using a database can help organize population statistics, clients' names and addresses, and even baseball card collections.

- **2.** Follow the instructions in the DBMS that you're using to set up fields. Then enter each item of data in its assigned field.
- **3.** Determine how you want to organize the facts in the database–chronologically by the date, alphabetically, or by some other category.
- **4.** Follow the instructions in your computer program to sort the information in order of importance.
- **5.** Verify that all the information in your database is correct. If necessary, add, delete, or change information or fields.

Application Activity

Research and build a database that organizes information about U.S. trade with countries in Asia. Explain why the database is organized the way it is and how it might be used in this class.

The Rise and Fall of Communism

SECTION 2

Study Guide

Main Idea

Communism is an economic system that has both centralized control of the means of production and of the political system.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by explaining how the economic system in the former Soviet Union answered the basic economic questions.



Cover Story

Kiev to Pay Russian Debts with Bombers

Russia has agreed to accept bomber aircraft as payment for part of Ukraine's huge debt to Russia



Blackjack bomber

for natural gas ... Ukraine owes Russia \$1.8bn according to Russian figures and \$1bn according to Ukrainian figures . . . Russia has agreed to take eight Tu-160 Blackjack bombers in payment from Ukraine.

Ukraine typically pays for gas in barter, with nominal prices set at around three times the market price for the goods . . . [but] Ukraine and Russia are constantly at loggerheads over gas debts.

Russia in the past has shut off gas supplies in

Ukraine due to non-payment, but Ukraine has then simply stolen Russian gas bound for Europe instead. All of Russia's gas exports to Europe travel through Ukrainian pipelines.

-The Financial Times, August 9, 1999

CONTENTS

Key Terms

Five-Year Plan, collectivization, Gosplan, state farm, collective farm, piecework, storming, perestroika

Objectives

After studying this section, you will be able to:

- 1. Explain the rise of the Soviet economy under Lenin and Stalin.
- 2. Describe the complexities of a centrally planned economy.
- 3. Understand the forces that brought about the collapse of communism as an economic system.

Applying Economic Concepts

Perestroika Have you ever thought that some aspects of the economy should be changed from top to bottom? If so, read to find out more about perestroika, which is the Russian term for "restructuring."

n the absence of pure communism, the former Soviet Union is the most frequently cited example of a communist economic system. The early Soviet economy showed the main advantage of a command system-that it could mobilize resources and change direction in a short period of time. The sudden disintegration of the Soviet economy in the late 1980s, however, demonstrated the essential flaws of communism.

The Economy Under Lenin and Stalin

In 1917 a revolutionary named Vladimir Filyich Ulyanov, or Lenin, overthrew the government of Russia. In its place, he set up a communist government. Lenin was a strong believer in theoretical communism, and he quickly took steps to develop a communist society. Large estates were taken from the rich, and the land was divided up and given to the peasants. Lenin also outlawed private property and turned the country's few factories over to the workers.

The workers, however, did not have the skills to manage the factories. Before long, production fell and the economy began to disintegrate. People lost faith in the money supply, and a system of barter emerged. The government sent armed forces to the farms to confiscate surplus food for the hungry city dwellers and industrial workers. The angry farmers retaliated by reducing their production so there would be no surplus crops.

By 1927, many changes had taken place. Russia had become the Soviet Union, and the country was under Communist Party control. Lenin had died, and Joseph Stalin was the new leader. Stalin wanted to transform the Soviet economy from agriculture to industry.

To accomplish this goal, he introduced the government's first **Five-Year Plan**–a comprehensive, centralized economic plan designed to achieve rapid industrialization.

Under Stalin's leadership, the process of **collectivization**—the forced common ownership of all agricultural, industrial, and trading enterprises—began. Not surprisingly, many people opposed the reforms. Peasants even destroyed their livestock and sabotaged their equipment rather than turn their property over to the collective farms.

Stalin's retaliation was brutal. Millions of people were killed or imprisoned. Ukrainian grain stores were seized in the winter of 1932, causing the starvation of more than five million peasants. The suffering in the cities was nearly as harsh. Workers were forced to work in heavy industry, and the standard of living deteriorated drastically.

Although the first Five-Year Plan did not achieve all of its goals, the government continued with more planning. The plans that followed concentrated heavily on defense industries, heavy manufacturing, and some consumer goods.

The Soviet Economy After Stalin

Stalin's brutal regime ended in 1953. By then the Soviet economy had successfully completed its transition from a backward agrarian economy to a major industrial power. The Soviet government and its comprehensive system of planning dominated the Soviet economy, but the real force was the ruling Communist Party.

Complexities of Central Planning

In the Soviet economy, the **Gosplan** was the central planning authority that devised the Five-Year Plans. As the Soviet economy grew, however, this process became increasingly complex.

Consider the difficulties in a single industry such as shoes. First, the planners have to decide how many shoes should be produced in any given year. This amount would depend on the population and the number of pairs that each person, on average, would need. The planners would then have to decide how many pairs to make of each style, including colors, sizes, and widths.

Next, the various sizes, grades, and amounts of leather, dye, metal eyelets, thread, glue, and other materials needed to produce the shoes had to be estimated. After the central planners developed this data, individual factories were given monthly and annual quotas. Even a factory that produced thread would be told how much thread of every diameter and color to produce for use in shoes.

Similar decisions had to be made for all industries, including clothing, farm implements, stationery, and military goods. The planners detailed everything that would be needed in the economy right down to nails and paper clips. Even these minor items required the planners to make estimates of iron ore, coal, coke, blast furnaces, mining equipment, trains, and ore cars.

To ensure the growth of the economy from one year to the next, all the planners had to do-or so they thought-was to increase the quotas given to the factories. In short, the central planners determined almost everything beforehand.

Difficulties With Agriculture

CONTENTS

The situation was similar in agriculture, where food was raised on state, collective, and peasant farms. The **state farms** were large farms entirely owned and operated by the state. Workers on the state farms were paid for the number of items they produced. All output was turned over to the government at prices fixed by the government.

CHAPTER 18: COMPARATIVE ECONOMIC SYSTEMS 497

Peasant families worked **collective farms**, small private farms collected into large units for joint operation. The land, buildings, tools, livestock, and machines belonged to the government, which bought a certain amount of produce per acre. Peasant families were allowed to keep their homes and household goods, and a small plot of land.

Despite its efforts, the government was not able to make agriculture as efficient as that of many capitalist countries. In the mid-1980s, before the collapse of the Soviet Union, nearly 25 percent of the workforce was in agriculture. In the United States at the time, only 3 percent of the workforce was in agriculture.

The Soviet Economy Collapses

The Soviet Union made considerable progress with industrialization, but it never caught up to the United States. Despite its larger population and land area, the Soviet Union's GNP never exceeded two-thirds of that of the United States.

Careers



Customs Inspector

Do you like detailed work? Are you able to accept responsibility and deal with people in a firm but friendly manner?

The Work

Customs inspectors are part of the Treasury Department. Duties include examining baggage at airports or seaports to ensure that all merchandise is declared and that duties are paid. Commercial and noncommercial cargoes are inspected to determine admissibility and the amount of tax due.

Qualifications

Customs inspectors need training in laws governing imports and exports and in inspection procedures. A college degree is preferred. Passage of a civil service exam is required. To offset low morale in the factories, a number of incentive programs were attempted. One involved the use of **piecework**, meaning that workers are paid for each piece of output they produce rather than for the number of hours they work.

Although this system may seem like a good idea, piecework quotas often were set at unrealistically high levels. This led to **storming**, the practice of rushing production at the end of the month to make up for the slower pace at the beginning of the month. The rush at the end often affected the quality of the products. Because of storming, knowledgeable Soviet shoppers often avoided buying goods made at the end of the month.

Other incentives included patriotic and emotional appeals. Workers who had outstanding records or did something special were awarded hero medals, such as the Order of Lenin and the Hero of Social Labor. Some of these medals brought rewards such as free public housing or vacations.

Production Quotas

CONTENTS

As with incentives, quotas also failed at the factory level. During the 1950s, the Soviet economy had a reputation for producing some of the world's poorest consumer and industrial goods. Shoe factories, for example, were given quotas in terms of millions of pairs of shoes. Because small shoes could be made fastest, more were made than were needed. When the quotas were changed to measure production in the amount of shoe leather consumed, the result was shoes with some of the thickest soles in the world.

Production of Consumer Goods

Another major problem was the inadequate supply of consumer goods. After World War II, the Soviet people were asked to make sacrifices so their children might have a better life. Many willingly did so. In the 1970s and 1980s, those children were adults. When they were asked to make sacrifices so their children could have a better life, they were not as willing as their parents had been. The new generation had not suffered from the ravages of war and they were aware of the standards of living in other parts of the world. As a result, they were impatient for more consumer goods.

Perestroika

When Mikhail Gorbachev assumed power in 1985, the Soviet economy was weaker than anyone imagined. The main cause was the burden imposed by centralized planning. The economy had become too complex and too large to be managed in the traditional manner.

Plant managers were under increasing pressure to meet or exceed quotas. Glitches in planning, however, were creating shortages and other problems. To facilitate the process, "fixers" called *tolkachi* were employed to resolve shortages or dispose of excess inventories. The *tolkachi* soon became indispensable to producers who wanted to fulfill their quotas. At the same time, they also caused problems for other plants whenever they rerouted a shipment or otherwise interrupted the master plan of the central planners.

To solve these problems, Gorbachev introduced a policy of **perestroika**, the fundamental restructuring of the economy and government. Under the restructuring, Five-Year Plans were retained, but the various ministries of production were to be converted to efficient, state-owned enterprises that would compete in a market economy. Plant managers were given more freedom to buy and sell in pursuit of profits, and small business was encouraged.

Perestroika represented a halfway point between a market economy and centralized planning. Gorbachev, however, did not remain in power long enough to see his plans realized. Those in industry who opposed Gorbachev's reforms allowed shortages and other problems to persist, and then used these problems as proof that the reforms were failing. Gorbachev's successor, Boris Yeltsin, faced similar opposition. Ultimately, the collapse of the economy, the collapse of the political leadership, and the stresses of ethnic diversity and unrest combined to cause the downfall and breakup of the Soviet Union.



Frozen Treasures Siberia covers 75 percent of Russia. It has the largest supply of mineral resources in the country, including gold, diamonds, and coal. Siberia remains mostly undeveloped because of its harsh climate and few transportation routes.

Section 2 Assessment

CONTENTS

Checking for Understanding

- 1. Main Idea Using your notes from the graphic organizer activity on page 496, describe how the former Soviet Union's economic system functioned.
- 2. Key Terms Define Five-Year Plan, collectivization, Gosplan, state farm, collective farm, piecework, storming, perestroika.
- **3. Explain** how the Soviet economy developed under Lenin and Stalin.
- **4. Identify** several complexities of central planning.
- Describe how central planning contributed to the breakdown of the economy of the Soviet Union.

Applying Economic Concepts

6. Perestroika Since the mid-1980s, the former Soviet Union has undergone tremendous changes, some of which led to hyperinflation. Why would this hyperinflation hinder the movement toward capitalism?

Critical Thinking

- 7. Making Predictions Based upon recent changes, is the former Soviet Union moving toward capitalism or away from capitalism? Give evidence to support your conclusions.
- **8. Summarizing Information** What did Soviet planners think they had to do to ensure economic growth?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Profiles Economics

Reshaping the World: Karl Marx (1818-1883)

Marx was an economic historian and a social scientist. He earned his doctorate in philosophy and history from the University of Berlin, but because of his radical views, he could not get a teaching position.

Throughout the 1840s, he wandered from Cologne to Paris to Brussels. He joined with socialist and radical groups. Persecuted by Prussian and Parisian authorities, Marx fled to London in 1849 where he began a life of exile and, eventually, died in poverty.

MARX'S WORKS

Marx is best known for *The Communist Manifesto*, published in 1848, and *Das Kapital*, the first volume of which was published in 1867. In these works, Marx argues that "the history of all hitherto existing society is the history of class struggles." In each era, one class was pitted against another: master against slave, lord against serf, capitalist against worker–the "oppressor and oppressed."

HIS IDEAS

Marx argued that the oppressed of his day was the proletariat people who must work for others because they have no means of production of their own. Their oppressors? The capitalists or bourgeoisie—people who own the means of production.

Marx argued that labor was exploited in a capitalist society. He gave the name "surplus value" to the difference between the wage paid to the worker and the market value of the worker's output. He believed this value was unfairly kept by capitalists as profits.

Marx argued that each cycle of prosperity would add to the suffering of the proletariat and the wealth and power of the capitalists. Eventually, he said, oppressed workers would rise up in a violent revolution. "Let the ruling classes tremble at a communist revolution," he wrote. "The proletarians have nothing to lose but their chains. They have a world to win. Working men of all countries, unite!" During the transition, the

CONTENTS

UNITE

proletariat would, Marx argued, have to depend on a strong government: a "Dictatorship of the Proletariat." Thus, authoritarian Communism as practiced in the Soviet Union and other countries was born.

Marx believed that eventually the dictatorship would be replaced by a "classless society," without government, in which people would produce to the best of their abilities and consume to the extent of their needs.

Examining the Profile

- 1. Analyzing Information According to Marx, through what stages must society go before it can reach the ideal state of communism?
- For Further Research Annotate a world map to show the extent of Marxist economies in the world today.

The Transition to Capitalism

SECTION 3

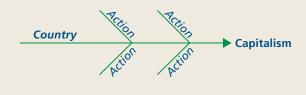
Study Guide

Main Idea

Reforms in the former Soviet Union, China, and many Latin American and eastern European nations have moved these economies toward more capitalistic, market-oriented systems.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by selecting a country and describing how it is making the transition to capitalism.



Cover Story

Rubles From the Ruins: A Russian Success

NIZHNY NOVGOROD, Russia—In general, the Russian economy is a mess: Industrial production is half what it was in 1991, the transition to a market economy has gone badly, the ruble has collapsed, and many giant enterprises are in desperate straits, unemployment and poverty are ubiquitous.

And yet, some Russian businesses are actually making money, some are thriving....

Although criminals and corrupt government officials frustrate entrepreneurs all over the country, some manage to evade or ignore them. The experiences of the few who are succeeding provide some powerful lessons in why that hope remains so remote. Consider the adventures

of Andrei Mladentsev. . . .



Russian currency

—International Herald Tribune, July 20, 1999

Key Terms

privatization, Solidarity, black market, Great Leap Forward

Objectives

After studying this section, you will be able to:

- 1. List four problems encountered when an economy makes the transition to capitalism.
- Recognize the major countries and regions that are making the transition to capitalism.

Applying Economic Concepts

Privatization Do you value and take care of the things you own? Read to see why private ownership is essential if countries are to make the transition to capitalism.

ndrei Mladentsev, the Russian entrepreneur featured in the cover story, now runs one of the largest and most modern pharmaceutical companies in Russia. At age 26 he used the funds he accumulated trading stocks to engineer a takeover of the 75-year-old pharmaceutical factory in Nizhny Novgorod. He is, however, the exception rather than the norm—as the problems of transition are truly daunting.

Problems of Transition

Historically, communism and capitalism have been viewed as two opposing political and economic structures. The collapse of communism, however, does not mean that the transition to capitalism will be smooth, or that it will be made at all. An examination of the problems of transition will show why.

Privatization

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A key feature of capitalism is private property– especially capital, which is sometimes referred to as the means of production. Because communist

governments owned the means of production, **privatization**, or the conversion of state-owned factories and property to private ownership, has to be accomplished. Privatization is important because people tend to take better care of the property they actually own. Private property is also important for entrepreneurial activity, especially if the entrepreneurs are allowed to keep the fruits of their labor.

In Poland, Hungary, and the Czech Republic, this transition was accomplished using vouchers. Vouchers were certificates either given to people or sold at very low prices, depending on the country. As the vouchers were distributed, the government drew up a list of companies to be privatized and then organized the companies as corporations. The corporate shares were auctioned, and people would bid for the shares using their vouchers for payment. As people exchanged their vouchers for shares, ownership of the previously state-owned enterprises transferred to private hands.

In other cases, the transition governments simply sold state-owned companies to foreign corporations. The government then used the funds to pay other bills or make other purchases. These transactions bypassed the citizens and transferred ownership to foreign investors.

Loss of Political Power

Under communism, the Communist party was the ruling class. The transition to capitalism stripped the Communist party of its political power and transferred it to the new class of entrepreneurs and capitalists.

In countries where the Communists were literally thrown out-as in Poland, Czechoslovakia, and Hungary-the Communist leaders lost their power before industry was privatized. In these countries, the voucher system worked reasonably well.

In other countries, former Communist leaders grabbed a large share of vouchers, and thus a large portion of ownership in many privatized companies. In the most blatant cases, some of which occurred in Russia following the collapse of the Soviet Union, the ownership of companies was simply transferred to politicians who were influential during the transition period. Former political



Rank	City, Country P	rojected Population (in millions)		
1	Tokyo, Japan	28.88		
2	Bombay (Mumbai), India	26.22		
3	Lagos, Nigeria	24.64		
4	São Paulo, Brazil	20.32		
5	Mexico City, Mexico	19.18		
6	Shanghai, China	17.97		
7	New York, New York USA	17.60		
8	Calcutta, India	17.31		
9	Delhi, India	16.86		
10	Beijing, China	15.57		
Source: The Shape of Things to Come, by Richard W. Oliver, McGraw-Hill, 1999				

THE WORLD'S LARGEST CITIES BY 2015

Most of the world's population lives in urban areas. Projections show that this trend will continue. Today's five largest cities are more populous than most countries. Cities are rapidly becoming the key economic units of global market analysis.

Critical Thinking

- 1. **Categorizing Information** How many cities are projected to surpass 20 million in population by the year 2015?
- 2. Understanding Cause and Effect What do you think are the economic reasons that the largest cities continue to grow?

leaders traded their political power for economic power in the form of resource ownership—so that the old ruling group simply became the new ruling group.

The Discipline of Capitalism

Many countries that desire a capitalist structure have focused on the benefits to be obtained, not the costs. However, the costs can hinder or even discourage a country from making the transition.

The disadvantages of capitalism made apparent during the Great Depression included instability, unemployment, and social unrest. At that time, the United States did not have the fiscal policies, the automatic stabilizers, and the social welfare nets needed to lessen the devastation of the Depression. Now that such assistance exists, most economists agree that another Great Depression will not occur in the United States.

The same cannot be said for the nations in transition. They have not yet developed the automatic stabilizers and the social welfare nets that cushion the instabilities of capitalism. During the transition phase, nations will most likely experience the instabilities of early capitalism—the unemployment, the inflation, and the lost production—long before they experience the benefits.

Responding to New Incentives

Finally, countries that make the transition to capitalism have to learn to live with a whole new set of incentives. For generations, the government in the former Soviet Union told its people what to do. Under capitalism, people must learn how to make decisions on their own. They must learn how to take the initiative, how to interpret prices, and how to fend for themselves because the government no longer guarantees their jobs, nor does it keep prices artificially low.

These adjustments will be enormous, perhaps even prohibitive, for some people. Many will even long for the past when life was simpler. These people may not want to go through the adjustments and submit to the discipline of capitalism. Impatience for the end result may be a major obstacle to the transition.

ECONOMICS At <u>a glan</u>ce

Figure 18.2

New and Emerging Stock Markets

NUMBER OF LISTED COMPANIES		NUMBER OF LISTED COMPANIES	
Country		Country	
Argentina	138	Morocco	48
Brazil	543	Nigeria	180
Chile	296	Pakistan	778
China	763	Peru	247
Colombia	163	Philippines	222
Egypt	668	Poland	159
Greece	231	Portugal	143
Honduras	111	Russia	222
Hungary	50	South Korea	776
India	5,853	Sri Lanka	240
Indonesia	287	Taiwan	408
Israel	648	Thailand	431
Jamaica	46	Turkey	262
Malaysia	722	Venezuela	91
Mexico	198	Zimbabwe	64

Source: Emerging Stock Markets Factbook, 1998

Using Charts New and emerging stock markets are now found all over the world, and more are still to come. Why is the cor-

porate form of organization a necessary component of capitalism?



Visit <u>epp.glencoe.com</u> and click on *Textbook Updates—Chapter 18* for an update of the data.

CLICK HERE

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Countries and Regions in Transition

Despite the transitional problems, the rise of capitalism is one of the most remarkable phenomena of the late twentieth century. Today, nations and regions all over the globe are making the transition.

Russia

Privatization in Russia is well underway, despite the continued resistance of hard-liners. Some privatization took place under Gorbachev, and President Boris Yeltsin accelerated the process when he signed a 1992 decree requiring that stateowned enterprises be converted to privately owned ones.

Many conversions took place when the government printed and distributed vouchers to its people. The people then used the vouchers to purchase shares of stock in the newly converted companies.

Smaller businesses were also being privatized at a rapid rate. Soon more than half of the restaurants and shops in the major cities were in private hands. Eventually Russia opened a stock market so that individuals could buy and sell shares. The widespread ownership of the means of production by individuals is now a reality in a country that once preached the evils of private ownership.

Eastern Europe

The nations of eastern Europe, especially those that were unwilling members of the Soviet bloc, are the newest nations to embrace capitalism. The struggle for freedom began in Poland with **Solidarity**, the independent and sometimes illegal union that Lech Walesa established in 1980. Solidarity was influential in securing a number of political freedoms in Poland. Eventually, the Communist party lost power, and interest in capitalism grew. Political reform slowed privatization plans at first, but capitalism finally appeared to be under way again in the face of progress by Poland's neighbors.

Hungary is another country well on the way to capitalism. Hungary was often regarded as the most

CYBERNOMICS SPOTLIGHT

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An Emerging Latin American Market

Historically, the economies of most Latin American countries depended on agriculture. Beginning in the midnineteenth century, these Latin American economies began to change. Countries exported raw materials, such as oil, so that they could import machinery to build factories for manufacturing goods. As a result of the growth of the manufacturing sector, service industries such as banking and insurance took on new importance. An educated middle class emerged, consisting of lawyers, doctors, entrepreneurs, government employees, and skilled office and factory workers.

As Latin America moves into the twenty-first century, economies in the region are changing once again. Technology is affecting how business is done. Many groups in Latin America see e-commerce as a means to becoming more economically efficient and competitive.

Internet Users in Latin America Consumers, businesses, and governments are beginning to see the value of Internet commerce. Online supermarkets and retail



Changes in Latin America's business

shopping are becoming more popular with consumers. Technology is being developed in Brazil to develop an online-only grocery store, where consumers will be able to purchase products such as soap and oatmeal using a catalog and a bar-code scanner. Businesses use the Internet to link their factories with suppliers to cut costs. They can track product shipments and check on the status of an invoice. The government is also beginning to post government contracts online so that public and private companies can bid on them. Companies can get information about competing bids and contest decisions using the Internet.

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"western" of the Eastern bloc countries. It also had a flourishing **black market**—a market in which entrepreneurs and merchants sold goods illegally. Hungary's experience with these markets helped ease the transition to capitalism.

The Czech Republic is another country in transition. By early 1998, more than 60 percent of the economy was in private hands. Progress accelerated after the separation of the Czech and Slovak Republics, a separation based in part on the Slovakian concern about adopting the capitalist ways of the West. The Czechs, who were strongly influenced by the economic success of the former West Germany, are now more able to pursue reforms.

The Baltic states of Estonia, Latvia, and Lithuania are also making great strides toward capitalism. Latvia and Lithuania have their own stock markets to help facilitate the transition. Estonia has made so much progress that it-along with the Czech Republic, Hungary, and Poland-will be considered for membership in the European Union between 2002 and 2006.

Latin America

In the past, many Latin American countries followed a path of economic development that combined socialism and isolationism based on the infant industries argument. Mexico accelerated the move to capitalism and open markets in 1989 as it made plans to restructure its economy for the North American Free Trade Agreement (NAFTA). Under President Salinas de Gortari, the government sold thousands of state-owned companies

and cut back on the government bureaucracy.

Did You Know?

On The Net Even though fewer people in Latin America have access to the Internet than in the United States, those who use it spend more time online. Latin American Internet users spend about 8.2 hours online a week, compared with 7.1 hours in the United States.

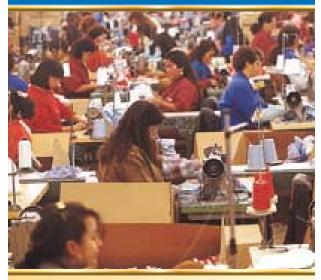
Getting Online Several problems are hindering the growth of e-commerce in Latin America. Only one in ten people have a phone line. Because the average gross domestic product per capita is less than \$4,000, the ability to buy a personal computer and get online is out of reach for many people. Few people in Latin America use credit cards; many are reluctant to give out credit card numbers online. Custom regulations and import duties can delay the arrival of goods or make them too expensive to buy.

Industry experts agree that these problems will be less troublesome in the future. It is expected that within a period of five to seven years the number of phone lines will double, to two per 10 people. Personal computer prices are expected to fall as the number of sales increases. Smart cards are becoming more popular, giving consumers a better sense of security for buying online. Internet companies are beginning to inform shoppers at the time of purchase how much they will owe for duties and other taxes, and it is expected that tariffs will be removed as more countries form regional trading blocs. E-commerce grows

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Economic Change



Retreat From Socialism Once state-owned, many companies in Mexico are now under private ownership. *How is Argentina reducing the role of government in the economy?*

Chile has also taken major steps to foster the growth of capitalism. It has privatized airlines, telephone services, and utilities. Chile even used the billions deposited in its pension funds to supply capital to new entrepreneurs. As a result, the country exports copper, lumber, fruit, and even software to the rest of the world. Chile's markets include the United States, which imports millions of popsicle sticks, and Japan, which imports chopsticks.

Argentina has similarly embarked on a crash program to remove government from the everyday business of running the economy. The country has sold oil fields, petrochemical plants, and a number of other formerly state-owned businesses.

China

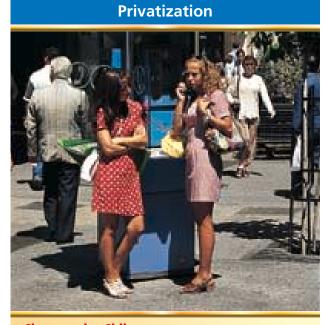
The People's Republic of China became a communist economy in 1949. That year, the Chinese Communists, under the leadership of Mao Zedong, gained control of the country. Over the years, China modeled itself after the Soviet Union, adopting a series of Five-Year Plans to manage its growth.

In 1958 the **Great Leap Forward** was instituted. This was the second Five-Year Plan that tried to institute a system of pure communism along with an industrial and agricultural revolution almost overnight. Industrialization was pushed and, at the same time, collectivization of agriculture was intensified. Farmers were forced off their land and made to live and work on large, state-owned farms.

The Great Leap Forward was a disaster. The agricultural experiment failed, and the economy never came close to achieving the planned degree of industrialization. Even the gains made during the first Five-Year Plan were lost.

Other plans followed but, by the late 1970s, the government decided that the country no longer could follow the models of either the Soviet Union or other command-type economies. China and its population were too big for large-scale centralized planning. Industrializing the cities enough to provide jobs for nearly one-fourth of the world's population would be nearly impossible.

By the early 1980s, the influence of other successful market economies in Asia–Taiwan, South Korea, Hong Kong, and Singapore–was too much for China to ignore. One of China's provinces,



Changes in Chile Chile has privatized telephone services and airlines. *What is Chile hoping to accomplish through privatization?*

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the Guangdong Province just north of Hong Kong, copied many of the free market practices of the region and was even allowed to officially experiment with capitalism. At one time Guangdong was an embarrassment to the official communist dogma, but it was later touted as an economic role model for the rest of the nation.

China was also influenced by the eventual reunification with Hong Kong, which took place in 1997. The city of Shanghai, in particular, embarked on a program of reforms and expansion in an attempt to become China's "first city" after the reunification.

Today China is no longer experimenting with capitalism. It is instead privatizing industries, introducing market reforms, and otherwise acting in a decidedly capitalistic manner. China still has a long way to go, and the government still directs most major economic activity. Its economy has evolved, however, into what former President Jiang Zemin once called "socialism with Chinese characteristics"–loosely translated as free market capitalism.

<section-header>

Shanghai Reform has resulted in strong economic growth for China. *Why did China stray from centralized planning*?

Section 3 Assessment

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Checking for Understanding

- 1. Main Idea What is privatization? Describe two ways in which transition economies handled privatization.
- 2. Key Terms Define privatization, Solidarity, black market, Great Leap Forward.
- **3. List** the problems a country is likely to encounter when converting to capitalism.
- Identify two major countries that are making the transition to capitalism.
- 5. Trace the economic policy changes in China.

Applying Economic Concepts

6. Privatization Explain why capital stock and other property is expected to last longer when it is privatized rather than collectively owned.

Critical Thinking

7. Finding the Main Idea Suppose you are visiting one nation in eastern Europe adopting a market economy. What questions would you ask local officials to determine whether they are successfully moving toward capitalism?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

AUGUST 2, 1999

In 1949, communist forces won the civil war in China. The communists then established absolute control over the government and the economy. Today, however, technology is reshaping the communist state.

China's Web Masters

Anyone who assumes the Internet is still a novelty in China has been asleep at the mouse. The communist giant's state-owned factories and political system may seem frozen in another era. But when it comes to cyberindustry, China is moving at net speed. Driven by soaring computer sales, rapid expansion of China's telecom networks, and the encouragement of reformist leaders, Internet use is growing explosively....

The impact will be revolutionary, both on China's economy and society. A new class of entrepreneur is emerging because the government is allowing the private sector wide latitude to develop Web business—remarkable for an industry Beijing regards as strategic. The rapid spread of e-commerce could transform China's stodgy retail and banking sectors. It may also boost efficiency of Chinese industry by allowing old-line factories to streamline supply chains....

To encourage development of Chinese content, Beijing makes it surprisingly easy for foreign companies. While they cannot own equity in mainland telecom operators, they can own majority control

Newsclip



of Net companies. And although Beijing guards its monopoly on traditional media, it lets entrepreneurs publish on the Web. . . .

... The government limits what Chinese Net users can see by telling them to block portals run by dissident and human-rights groups. Determined surfers can go through offshore services. But because Beijing prohibits imported encryption technology, state snoops can easily eavesdrop on traffic....

The Net's success could breed its own problems. As it grows more lucrative, bureaucrats may not be able to keep their hands off. Beijing is usually happy to accept foreigners' investment dollars at first. Then it often changes the rules to the advantage of state-run rivals once a sector gets hot. The same could happen with the Internet.

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Examining the Newsclip

- **1. Analyzing Information** How is technology changing China's economy and society?
- 2. Making Predictions What problems could arise as Internet use increases?

The Various Faces of Capitalism

SECTION 4

Study Guide

Main Idea

Many countries have moved toward capitalism, although its exact form varies from country to country.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by selecting one of the nations discussed in the section and describing what role the government plays in its economy.



Cover Story

Pressing Need for a Second 'Restoration'

In the center of Tokyo stands an elegant, wooded shrine to the Emperor Meiji who ruled Japan in the 19th century. It is a monument that now poses a critical challenge to his modern-day political successors.

Slightly over a century ago, Emperor Meiji gave his name to one of the most dramatic reformations that Japan has seen: in a few decades he transformed the country from a closed, feudal, and rigid society into a dynamic, entrepreneurial industrial power. The



Meiji shrine in Tokyo

neurial industrial power. The question now is whether Japan can surprise its critics by performing the same "modernizing" trick again and implement a second major "restoration" to revive the country's flagging fortunes.

-The Financial Times, July 13, 1999

Key Terms

capital-intensive, keiretsu, infrastructure, collateral, transparency

Objectives

After studying this section, you will be able to:

- 1. Explain the factors that encouraged economic growth in Japan.
- 2. Rank the "Asian Tigers" according to per capita GNP.
- 3. Describe Sweden's retreat from socialism.

Applying Economic Concepts

Economic Growth Have you ever looked at the labels inside your clothes? If so, you may have noticed that many of them were made in Korea, Hong Kong, or Taiwan. Read to find out how different economies experienced economic growth.

apitalism is a force sweeping the world. It is also a force that has many different faces. The common element of capitalism is that the factors of production are privately owned and controlled; there are, however, many variations on this theme.

The sharp financial crisis that swept Asia in the fall of 1997 also demonstrates another feature of capitalism—that the welfare of most capitalist economies is increasingly entwined. The interdependence we often see at the local and national level is beginning to become a feature of the global economy. These are some of the forces that are causing capitalism in Japan, as you read in the cover story, to continue to evolve.

Japan

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Japan, like the United States, has a capitalist economy based on markets, prices, and the private ownership of capital. Unlike the United States, however, Japan's government is very involved in the day-to-day activities of the private sector. At the end of World War II, Japan was a devastated country. Today, it is the second largest industrial nation in the world, with a GNP about 79 percent of that of the United States. In the 1970s and 1980s, the Japanese economy was one of the fastest growing in the world. However, it stalled in the 1990s. Slower growth, a currency crisis in 1995, and a recession in 1998–99 added to the economy's woes–factors that convinced the Japanese that further restructuring was necessary.

Reasons for Success

One of the reasons for Japan's early success was the workers' intense loyalty to their employers. Many workers joined large companies for life. In return, the company supplied benefits such as wedding halls, private schools, and even vacation resorts.

Japanese workers traditionally take great pride in the quality of their work. It is not unusual for



Worker Attitudes Japan's economic success is due in part to its workers' loyalty and pride in their products. *What other factors have contributed to Japan's success?*

a company's entire workforce to arrive early to take part in group calisthenics and meditation exercises.

Japan's recent economic crisis has severely tested the historically close employee-employer relationship. Some firms have actually laid off workers, and some no longer guarantee lifetime employment. Whether or not these changes will become widespread depends in large part on the speed and strength of the Japanese recovery.

Another reason for Japan's success is the ability and willingness of the Japanese to develop new technology. Because of their relatively small population, they have worked to boost productivity by developing methods that are **capital-intensive** techniques that use a large amount of capital for every person employed. Today, the Japanese are recognized as the world leader in the area of industrial robots. As a result, most factories require only a fraction of the workers that similar factories in other countries need.

Most large Japanese firms also belong to a **keiretsu** (ky \cdot reht \cdot soo). This is a tightly knit group of firms governed by an external board of directors from potential competitors. The role of the governing board is to ensure that competition does not get so fierce that individual firms are threatened. A similar agreement in the United States among competing firms would be illegal under our antitrust laws.

The Role of Government

Historically, Japan's public sector was relatively small. Spending on **infrastructure**—the highways, mass transit, communications, power, water, sewerage and other public goods needed to support a large population—was low. The government also had a modest military capability and was not burdened with welfare spending. As a result, taxes were low, which

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allowed people to save their money or spend it on consumer goods.

The Japanese government also worked closely with businesses to limit foreign competition in the domestic market. Even today the Japanese government is more closely allied with businesses than consumers, often aiding efforts to keep foreign goods out of the country in order to protect domestic producers.

Some of this has changed with the recent economic downturn. In order to stimulate economic growth, the government introduced a number of Keynesian-type spending packages in 1998 and 1999 to stimulate the economy. As a result, the government sector now spends more than ever.

A Closed Economy

Despite Japan's success in international trade, their economy is partially closed to the products of foreign producers. When foreign companies try to sell their goods in Japan, many encounter numerous obstacles ranging from delayed government permission to huge amounts of paperwork.

Until recently, Japan was even reluctant to import rice, a food staple, in order to protect domestic rice producers. As a result, the cost of rice to the Japanese consumer is several times higher than it would be if Japan imported rice from the world markets.

The High Cost of Living

Protectionism in Japan may help certain segments of the economy such as the rice farmers, but it does not help the consumer. Because foreign competitors supply so few goods, products are generally expensive. Citrus fruits cost four to six times more in Japan than they do in the United States. Clothing costs two to three times as much, and even cameras and electronics cost more in Japan than elsewhere.

For years, the Japanese have been making electronic consumer goods and selling them abroad. Recently, Japanese citizens discovered they could purchase their own goods cheaper in Hawaii than they can in their own country. As a result, Japanese cameras, radios, and other electronic



and Practices Web site at <u>epp.glencoe.com</u> and click on **Chapter 18—Student Web Activities** for an activity on the governments and economies of nations.

equipment are among the most popular items Japanese visitors bring back from trips abroad.

Reliance on Manufacturing and Trade

Japan must actively engage in international trade because it is an island nation with few natural resources. Consequently, it must import most of its oil as well as a number of other critical materials. For the most part, the Japanese paid for their imports with revenues from the sale of cars, cameras, and other consumer products.

Much of Japan's trade success has been attributed to the direction that provides its Ministry of International Trade and Industry (MITI). This is a government ministry that identifies promising export markets, and then subsidizes industries so that they can be competitive in this area.

Stagnation and Recession

Despite Japan's economic successes, it experienced stagnation and recession for most of the 1990s. Industrial production peaked in 1991 and then declined until 1994. It recovered to its 1991 level in 1997, but then went into its worst recession since World War II.

Part of the reason for the poor economic performance was the banking crisis in the 1990s. When Japan was growing exceptionally fast several years earlier, land values soared. Many borrowers pledged their land as **collateral**—property or other security used to guarantee repayment of a loan—against loans that ultimately went bad. Banks had so many bad loans—estimates ranged as high as one in four—that banks simply stopped lending in 1996 and 1997. To make matters worse, banks had been so secretive about their loans that

STANDARD & POOR'S INFOBYTE

International Bonds An international bond is a bond that is issued in one country on behalf of borrowers that live in another country. An example would be a Japanese-issued corporate bond being offered for sale on the New York bond market.

banking regulators did not even know who received the loans, making default by the borrowers relatively easy.

The banking situation made it difficult for qualified borrowers to get loans, and many industries, including construction, came to a halt. Unemployment rose; the government tried to stimulate the economy with a number of programs, including "employee adjustment grants" designed to subsidize employee wages. In 1999 alone, the government used ± 61.1 billion (\$532 million) to pay two-thirds of the salaries of nearly 2.5 million workers in 300 industries. Despite these subsidies, Japan's unemployment reached record-high levels in late 1999.

Restructuring and Reform

Another problem facing Japan is that it can no longer rely exclusively on basic manufacturing because many of its neighbors can now produce the same products at a lower cost. Also, the cozy relationship between government and industry makes it difficult for incremental change to take place–one of the features of capitalism. This inflexibility is made more difficult by the keiretsu, whose purpose is to maintain relationships and to ensure that competition does not become detrimental to its members. Finally, there is the issue of **transparency**, or the need to make business dealings more visible to everyone, especially government regulators. Without more transparency, it will be difficult to prevent another crippling banking crisis.

According to its Ministry of International Trade and Industry, Japan needs to institute supply-side reforms. These reforms would redefine government's role in the economy and restructure the way firms produce and compete with one another. This is an ironic turn of events because the world looked to Japan as the very model of growth in the 1980s. Today, Japan looks to the United States for guidance on restructuring so that it can resume its previous growth.

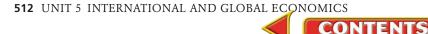
The Asian Tigers

Three other Asian countries–Singapore, Taiwan, and South Korea–have made striking economic progress during the last 50 years. The British colony of Hong Kong also experienced explosive growth before it was reunified with China. Despite setbacks during the Asian financial crisis of 1997, the four are called the "Asian Tigers." Each has based its growth on capitalism, but each has taken a slightly different path.

Hong Kong

When Hong Kong was still a British colony, it was recognized as the most free market economy in the world, one with virtually no government interference. Entrepreneurs in Hong Kong developed a manufacturing-based economy that used technology other countries had already developed. Their major industrial products included textiles, clothing, electronic games, radios, telephones, watches, electronic components, and toys.

At the time of unification in 1997, Hong Kong's per capita GNP was nearly 90 percent of the United States's, and nearly 40 times that of China. Other factors, however, were beginning to change. Financial services and tourism had caught up with manufacturing, and the Asian crisis had thrust the economy into a deep recession. Furthermore, China's promise not to interfere with Hong Kong markets for a period of 50 years seemed to be in jeopardy. In mid-1999, Hong Kong's chief executive Tung Chee-hwa announced plans to pour billions of dollars into high-tech computer industries, marking a sharp departure from the laissez-faire capitalism that once characterized Hong Kong.



Singapore

The second Asian Tiger is Singapore, an island nation about 3.5 times larger than Washington, D.C., with a per capita GNP about 80 percent of that of the United States. More than 1,000 multinational firms have been attracted to Singapore with the lure of generous tax breaks, government subsidies, and government-sponsored training of employees. Unlike Hong Kong, Singapore made a determined effort to develop its own technologies through extensive spending on research and development.

The government of Singapore is trying to develop a few select industries, including telecommunications services, software, and biotechnology. The government has spent millions on laboratories, attracting top scientists from all over the world. The biotechnology industry has scored some original successes, one of which is the transfer of firefly genes to orchids to make them glow in the dark.

Taiwan

The Republic of China, also known as Taiwan, is an island about the size of West Virginia located off the coast of the People's Republic of China. Taiwan's population is about 22 mil-

lion, and the per capita GNP is almost half that of the United States.

Planning was always a feature of the Taiwanese economy. The most recent plan identified 10 industries to receive government assistance– these include telecommunications, consumer electronics, semiconductors, precision machinery, aerospace, pharmaceuticals, and others.

Taiwan was one of the early economic powers in Asia, but some people wonder if the centralized planning process will hamper future economic growth. Another concern is the looming presence of the People's Republic of China, which regards Taiwan as a "renegade province" and vows eventual unification. Despite its early start, the per capita GNP in Taiwan has fallen far behind those of Hong Kong and Singapore.

South Korea

South Korea, a country slightly larger than Indiana, has the smallest per capita GNP of the Asian Tigers, at about 45 percent of the United States's. In the past, a group of technocrats governed Korea with the help of the military. The factors of production were privately owned, but a small number of powerful business families dominated the private economy through conglomerates.

South Korea was hit hard by the 1997 Asian financial crisis, but it was also one of the first nations to recover. Many reforms have been undertaken since, but South Korea's future economic growth still depends on whether the private economy can adapt to competition and rely less on its relationship with the political sector.

Sweden

Sweden is a mature industrial nation, once regarded as the "socialist state that works." The reputation was apt because Sweden provided a broader range of social welfare programs for its citizens than did any other free-world country. Some

Changes in Sweden



Restructuring Many government-owned businesses in Sweden were privatized in the early 1990s. What led to the ouster of Sweden's Socialist party?

CONTENTS

of the basic industries were nationalized, but Sweden also had a considerable amount of private enterprise. The country, therefore, was not a model of pure socialism in the traditional sense.

The Welfare State

Many worker benefits were instituted during the 44-year rule of the Socialist party. During this time, wages were high, jobs were easy to find, and unemployment was in the 1- to 3-percent range. The Swedish economy–with its generous maternity, education, disability, and old-age benefits–was thought to be the model of European socialism.

Because government owned some basic industries, and because many of these industries were not profitable, the government relied on steep taxes to pay for the welfare state benefits. In the mid-1980s, tax receipts were about 50 percent of GNP. In some cases, additional income that Swedish citizens earned was taxed at an 80 percent rate, meaning that a person who earned an additional \$100 would keep only \$20. Some individuals even left the country to avoid high taxes. When tennis star Bjorn Borg was at the peak of his career, he resided outside of Sweden to avoid paying high taxes.

Many others devised ways to avoid paying taxes. Some craft workers resorted to barter. A carpenter who built some cabinets for an auto mechanic, for example, might be paid with repair work on the family car.

Restructuring

Eventually, the heavy tax burden and the additional costs of the welfare state began to cut into Sweden's economic growth. Growing inflation added to the problems, as did a massive government deficit. Growing discontent with conditions finally led to the defeat of the Socialist party in 1976.

A free-market government was elected in 1991, and by 1993 the role of the public sector had been reduced, although current revenues by all levels of government exceed 60 percent of GNP. Taxes on individuals and corporations are also lower, although they are still high by U.S. standards. Many government-owned businesses have been privatized, and more are scheduled to be converted.

European nations such as Sweden were relatively unaffected by the Asian crisis, so economic growth was positive in the decade of the 1990s. Real GNP growth rates have been lower than those of the Asian tigers, however, leaving Sweden with a real GNP per capita about two-thirds of that in the United States.

Section 4 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** Discuss how the approaches to economic growth differ in Taiwan and South Korea.
- 2. Key Terms Define capital-intensive, keiretsu, infrastructure, collateral, transparency.
- **3. Describe** significant factors that contribute to economic growth and development in Japan.
- Rank the "Asian Tigers" according to per capita GNP.
- 5. Explain how Sweden's retreat from socialism affected the nation's tax rates.

Applying Economic Concepts

6. Economic Growth How has Sweden's transition from socialism to capitalism helped promote economic growth?

Critical Thinking

- **7. Making Predictions** How might continued economic growth in Asia affect industries in the United States?
- 8. Making Comparisons What type of help is provided to Japanese businesses by their government that the American government does not give to its businesses?
 - Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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Chapter 18 Summary

Section 1

The Spectrum of Economic

Systems (pages 491–494)

- The world's three main types of economic systems are capitalism, socialism, and communism.
- Under capitalism, productive resources are privately owned and operated; capital is obtained through profits in the market; supply and demand determine prices; and the role of government is limited to promoting competition and providing public goods.
- Under **socialism**, many of the basic resources are government owned and operated, with prices playing a major role in the allocation of resources.
- Under **communism**, all productive resources are government owned and operated; centralized planning directs all resources; and labor is organized for the common advantage of the community.

Section 2

The Rise and Fall of Communism

(pages 496-499)

- In 1917 revolutionists overthrew the government of Russia and instituted a communist system.
- Utilizing a series of **Five-Year Plans**, Stalin wanted to achieve rapid industrialization. The plans included the **collectivization** of agriculture and the transformation of industry.
- When Stalin's brutal regime ended in 1953, the Soviet Union had successfully completed its transition to a major industrial power.
- The command economy ultimately proved to be a miserable failure. Low productivity and the lack of incentives led Mikhail Gorbachev to attempt **perestroika**, the fundamental restructuring of the economy and the government. The restructuring was not completed, however, and in the early 1990s, the Soviet economic system collapsed.

Section 3

The Transition to Capitalism

(pages 501-507)

- The former communist systems face several challenges—including the **privatization** of capital resources—as they try to move toward capitalism.
- These challenges include privatization, the shift in political power from Communists to elected officials, and the new incentives of a capitalist economy.
- Russia and Eastern Europe have had varying amounts of success in this transition to capitalism.
- Many countries in Latin America and even China are also moving toward a capitalist economy.

Section 4

The Various Faces of Capitalism

(pages 509-514)

- Japan achieved phenomenal economic growth with a combination of worker and corporate loyalty, technology, and low taxes until the early 1990s.
- Despite Japan's economic success, it experienced stagnation and recession during the 1990s.
- The economies of the "Asian Tigers"–Singapore, Taiwan, Hong Kong (before reunification with China), and South Korea–also owe much of their remarkable success to capitalism.
- Sweden, once regarded as the "socialist state that works," has restructured in an attempt to move away from socialism.

Chapter 18 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 18—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Write the key term that best completes the following sentences.

- a. state farm
- f. Five-Year Plan

h. communism

- b. socialism
- g. collective farm
- c. black market
- d. capital-intensive
- e. privatization
- i. perestroika j. storming
- In most former communist countries, state-owned enterprises are being converted to private ownership, a process known as ______.
- 2. To direct production, Soviet planners adopted a
- **3.** Under _____, the government owns all the means of production.
- **4.** In the Soviet agricultural system, the state owned and operated each ______.
- **5.** Soviet leader Mikhail Gorbachev introduced a policy of ______, the fundamental restructuring of the economy and government.
- 6. In the Soviet Union, groups of peasant families, each of which was allowed to keep their home and household goods, a few cattle, and a small plot of land, worked each ______.
- 7. Most nations of Eastern Europe had a flourishing ______, where entrepreneurs and merchants sold goods illegally.
- 8. Under _____ , the government owns many, but not all, of the basic productive resources.

- 9. In _____ industries, a large amount of capital is used for every person employed in manufacturing.
- **10.** Piecework quotas often led to ______, where workers worked slowly until the last week of the month and then sped up to meet the unrealistically high quota.

Reviewing the Facts

Section 1 (pages 491–494)

- **1. Explain** the role of the government in a capitalist economic system.
- **2. Describe** how the people in a socialist economy help allocate the use of resources.
- **3. Describe** who answers the basic economic questions in a communist system.

Section 2 (pages 496–499)

- **4. Describe** Stalin's efforts to implement centralized planning.
- **5. Describe** the problems that central planning caused in the Soviet economy.
- **6. Explain** the impact that perestroika had on the Soviet economy.

Section 3 (pages 501–507)

- **7. List** the problems that nations may face as they try to make the transition from communism to capitalism.
- **8. Name** the nations that are currently trying to adapt to a market economy and describe the specific problems they are facing in their transition.

Section 4 (pages 509–514)

- **9. Explain** the role that the government plays in Japan's economy.
- **10. Describe** how the approaches to economic growth differ in South Korea and Singapore.

Chapter 18 Assessment and Activities

Thinking Critically

- **1. Evaluating Information** Do you think five-year plans could work in the United States? Why or why not?
- 2. Drawing Conclusions What safeguards are in place to ensure that the United States will not face an economic downturn as severe as the Great Depression? List the safeguards on a graphic organizer like the one below.



- **3. Sequencing Information** Trace Sweden's transition from socialism to capitalism.
- 4. Drawing Conclusions The Communists promised people that their system would lead to workers' paradises throughout the world. By the early 1990s, however, communist systems and their command economies in most countries had collapsed. Why do you think communism was such a failure?

Applying Economic Concepts

- 1. **Capitalism** Many nations are attempting to switch from communism or socialism to capitalism. Often, the transition has been quite difficult. What suggestions would you make to the leaders of these nations to help ease the transition to capitalism?
- **2. Economic Growth** The "Asian Tigers" have experienced rapid economic growth and development. Do you think they can sustain this growth rate? Why or why not?
- **3. Economic Change** Why have many countries chosen to change the mix of socialism and capitalism in their economies in recent years?

Math Practice

Assume that your salary is 500 rubles per month. The government-controlled price of bread is 10 rubles, and you buy five loaves each month. What percentage of your income do you spend on bread? After the government deregulates prices, bread costs 25 rubles. What percentage of your income goes to buy bread? How does the inflation affect your standard of living?

Thinking Like an Economist

Explain why firms in the former Soviet Union could make low-quality products and continue to exist year after year. What would happen to such a firm in the United States economy?

Technology Skill

Using a Computerized Card Catalog For one week, summarize in your journal news articles you read about events in eastern Europe and other former Soviet bloc nations. Focus on articles that relate to those regions working to convert from a command economy to a market economy.

Using a computerized card catalog, find other sources describing economic events in these areas. Compose a journal article analyzing current developments in either of those regions of the world. Include quotes from the sources you found using the computerized card catalog.

Building Skills

Building a Database Review recent issues of newsmagazines and current newspapers. Using the steps described on page 495, build a database of information about current world developments concerning capitalism and socialism that the newspapers or the news magazines mention. Explain to a partner why the database is organized the way it is and how it might be used in class.



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Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook*, *Level 2*.

ECONOMICS WORKSHOP IN ACTION

Simulating Trade in Various Economies

From the classroom of . . . Danielle Dressler Mifflinburg High School Mifflinburg, Pennsylvania

The world contains various types of economic systems. Some countries have market economies, some command economies, some traditional, and still others have mixed economies. Each type of economy poses its own challenges when it comes to international trade. In this workshop, you will organize into groups and attempt to trade your products for goods produced in another country.

Setting Up the Workshop

Your teacher will separate you into groups and provide you with your products. Your group will represent a command, market, traditional, or mixed economic system. Read the instructions for your economic system. Then, read the steps of the procedures and begin the activity.

Procedures

STEP 1

Your group has all the "goods" your country produces (for example, the command economy has all the sugar packets). Later, you will use your goods to trade for the staples you need that are produced in the other countries.

STEP 2

When your group trades, keep in mind that the trade value of the products are: 100 lbs of sugar = 100 lbs of tea = 50 lbs of cotton = 25 lbs of meat.

STEP 3

Begin trading with the other "countries," paying careful attention to your restrictions on imports and exports. To satisfy the needs of its population, the goal of each country is to trade its product in such a way that it comes as close as possible to achieving the following mix of goods:

- 75 lbs of meat
- 250 lbs of cotton
- 500 lbs of sugar
- 300 lbs of tea

Command Economy

You are citizens of a country under a command economy. Your country has 1,500 pounds of **sugar** to trade. Your government has placed many regulations on both imports and exports. Three regulations are required during sugar production in order for sugar to be exported. Also, three regulations protecting your citizens need to be met in order for products to come into the country. Before you begin, organize your society (government officials, farmers, etc.) and list your regulations on imports and exports.

Traditional Economy

You are members of a society that has a traditional economic system. Your country has 800 pounds of **tea** to trade. You must decide in what quantities and with what countries you want to trade your tea, which is in very low supply. Before you begin, describe the characteristics of your society (climate, organization, leaders, etc.) and organize your group so that each member has a part in the economy.

Mixed Economy

You are members of a country that has a mixed economic system. You have 400 pounds of cotton to trade. Your government does not have complete control over the economy, but it places two regulations on the export of the cotton produced in your country and two regulations on imported products. Before you begin, organize your society (government officials, producers, etc.) and list your country's regulations on imports and exports.

Market Economy

You are a member of a country that has a market economic system. Your main export is **meat**—300 pounds in total. (Every member has an equal share.) You are free to compete in trade against one another. Your task is to export the meat from your country by competing with the other members of your group. Before you begin, describe the characteristics of your society and decide if you want to implement regulations on imports and exports.

Summary Activity

When the trading has been completed, discuss the following questions.

- 1. Which "country" came closest to the optimal mix of products? What factors of the economic system made this possible?
- Which types of economies were least able to achieve a good mix of products? Why do you think this is so?

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CHAPTER 19

Developing Countries

Economics & You

Read to find out how developing countries are working to increase their production and raise the standard of living of their people. To learn more about the economic challenges facing many nations, view the Chapter 26 video lesson:

Developing Countries



Chapter Overview Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on **Chapter 19—Chapter Overviews** to preview chapter information.

CLICK HERE

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Buyers and sellers meet at a produce market in the Vietnamese river town of Hoi An.

Economic Development

SECTION 1

Study Guide

Main Idea

Developing countries face a number of obstacles that make economic growth extremely difficult.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by providing at least two reasons why it would probably be more difficult to bring about change in a traditional economic system than in a developed country.



Cover Story

The Casualties Don't Stop When the War Does

Anti-personnel (AP) land mines have become the world's largest source of war-related injuries. According to the International Committee of the Red Cross, mines kill 800 people every month and another 1,200 are maimed—a total of 2,000 victims a month—one person every 20 minutes.



Mine detecting in Cambodia

Low cost and easy availability have made antipersonnel land mines the weapons of choice in the developing world. The United Nations estimates that there are currently tens of millions of anti-personnel land mines buried in more than 70 countries... approximately one mine for every 50 people on earth....

Land mines cost as little as \$3 (U.S.) to produce and up to \$1,000 to remove. For every 5,000 mines cleared, one de-miner is killed and two are injured.

-PALM Physicians Against Land Mines, August, 1999

Key Terms

developing country, crude birthrate, life expectancy, zero population growth (ZPG), external debt, default, capital flight, International Monetary Fund, World Bank

Objectives

After studying this section, you will be able to:

- 1. **State** the concern for the plight of the developing countries.
- 2. Identify the obstacles to economic development.
- Compare per capita GNP among various countries and regions.

Applying Economic Concepts

Life Expectancy Are there any downsides to longer life expectancies? Read to find out how a longer life expectancy affects the quality of life in developing countries.

ost of the people in the world today live in developing countries—countries whose average per capita GNP is a fraction of that in more industrialized countries. Most developing countries are located in Africa, Asia, and Latin America.

In many ways, developing economies are similar to other economies of the world. The major difference is that their problems are much greater. Some problems faced by developing countries, such as the residual effects of war highlighted in the cover story, are so serious that some developing nations may never reach their potential.

Interest in Economic Development

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Economists know that all nations are better off when they produce and trade the products in which they have a comparative advantage. Even so, the international community's concern for the developing countries is humanitarian as well as economic and political.

Concern for Developing Countries

Industrialized countries of the world often believe it is their moral responsibility to help those who have less than they do. Assistance to developing countries helps assure the industrial nations of a stable supply of critical raw materials. In turn, developing countries also provide markets for the products of industrial nations.

Politics are also important. Despite the dramatic failure of communism in some countries, various political ideologies wage a continuing struggle for the allegiance of developing countries.

Per Capita Income

Today more than 1.2 billion people exist on an income of less than \$1 a day. According to **Figure 19.1**, the majority of these people are in Africa and Asia. The map contrasts the income of the industrialized nations and the developing nations, scaling each country to show the size of its total GNP. Recall that GNP is a measure of *income*, while GDP is a measure of output relative to other countries. Thus, the United States, which has the largest total income in the world, is the largest area on the map. Countries with smaller GNPs are scaled accordingly.

The map is also color coded to show countries with similar per capita GNPs. When viewed this way, the contrast is clearly shown between the industrialized economies of North America, Western Europe, and Japan, and the developing countries of South America, the Caribbean, Africa, and Asia. The gap between industrialized and developing countries is enormous. If anything, the gap is getting larger, rather than smaller.

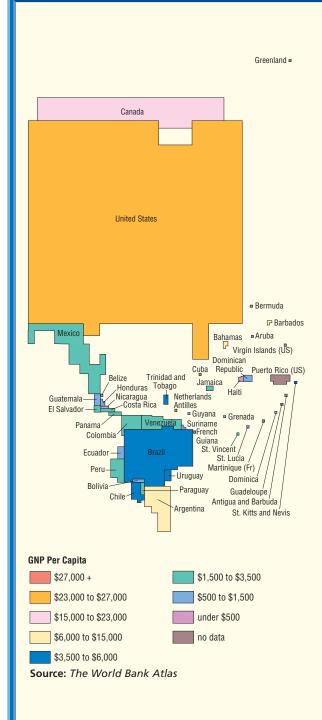
Obstacles to Development

Before examining some of the possible solutions to the plight of developing countries, we need to take a closer look at some common problems and challenges.

Population Growth

One obstacle to economic development is population growth. The populations of most developing

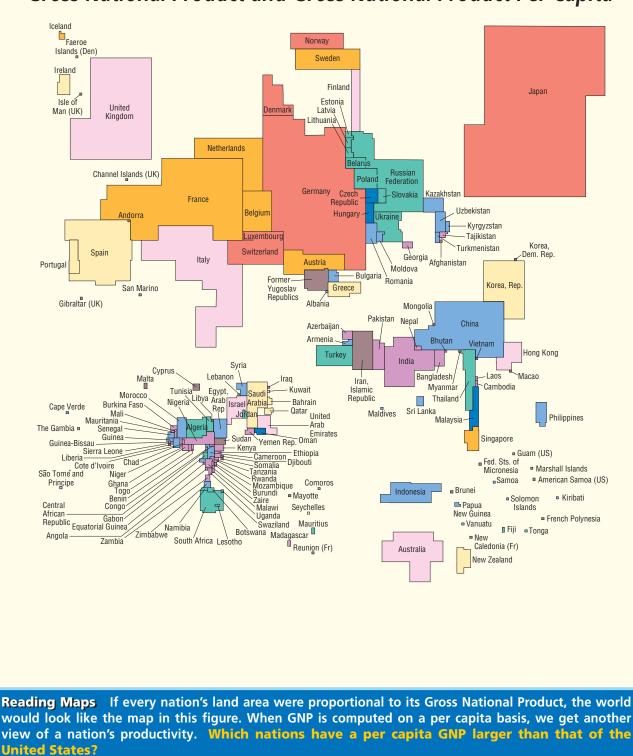
ECONOMICS AT A GLANCE



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Figure 19.1



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Gross National Product and Gross National Product Per Capita

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countries grow at a rate much faster than the populations of industrialized countries. One reason for this growth is the high **crude birthrate**—the number of live births per 1,000 people.

People in many developing countries are also experiencing an increasing **life expectancy**—the average remaining lifetime in years for persons who reach a certain age. Longer life expectancies, coupled with a high crude birthrate, make it difficult to increase per capita GNP.

Some countries, like China, have encouraged lower birth rates and smaller families. Some people even feel that societies should work for **zero population growth (ZPG)**—the condition in which the average number of births and deaths balance. Others feel efforts to disrupt population growth are wrong from both moral and religious perspectives.

Natural Resources and Geography

Another obstacle to economic growth is limited natural resources, which includes unproductive land and harsh climates. A shortage of natural and energy sources needed for industry also hinder growth.

In some cases, countries with limited natural resources can make up for the deficiency by engaging in international trade, as Japan has done. However, if a country is landlocked, trade is much more difficult. It is no accident that all of the major economic powers today have long had coastal cities with access to major trade routes.

Education and Technology

Still another obstacle to economic development is a lack of appropriate education and technology. Many developing countries do not have a highly literate population nor do they have the high level of technical skills needed to build an industrial society. In addition, most do not have money to train engineers and scientists.

Many developing countries cannot afford to provide free public education for school-age children. In those that can, not everyone is able to take advantage of it because children must work to help feed their families.

CYBERNOMICS SPOTLIGHT

Agricultural Development

Genetically modified cotton crops may be the means by which countries of Africa south of the Sahara become more competitive with the developed world. Some economists fear, however, that as more countries plant the genetically modified crops, the market for cotton will become saturated. Prices will drop, leaving farmers poorer than ever.

Religion

Religious beliefs may also stand in the way of economic development. While almost everyone realizes that capital investment and new technologies can help economic growth, some people may not be interested for religious reasons. In the United States, for example, many Mennonites have long rejected these advances on religious grounds.

In Asia, most Hindus and Buddhists believe that life is governed by a fate called karma; they believe that people are caught up in an eternal cycle of life, death, and rebirth. The Hindus believe that the eternal cycle can be broken, in part, by purifying the mind and body through living a simple and austere lifestyle. The Buddhists believe that the way to break the cycle is to extinguish desire and reject the temptations of the material world. Consequently, many Hindus and Buddhists–representing approximately 20 percent of the world's population—have little motivation to improve their material well-being.

The teachings of Catholicism, Protestantism, and Judaism are much more compatible with the concept of economic growth and material improvement, while the Islamic world is in between the Christians and the Hindus. We must realize, however, that some cultures may not be as interested in the Western concept of economic growth and development as we imagine.

External Debt

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Another major problem facing the developing nations today is the size of their external

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debt-money borrowed from foreign banks and governments. Some nations have borrowed so much they may never be able to repay loans.

Today a number of developing countries– Bulgaria, Cameroon, the Ivory Coast, Ethiopia, Honduras, Jordan, Madagascar, Syria, and Tanzania– all have external debts larger than their GNP. Sudan and Zambia have external debts more than twice their GDP, and Angola's external debt is *three* times larger than its GDP.

When debts get this large, countries have trouble even paying interest on the loans. As a result, some developing nations have teetered on the brink of **default**, or not repaying borrowed money. Even this strategy is dangerous, however, because a country that defaults on its loans may not be able to borrow again.

Capital Flight

Another problem for developing nations is **capital flight**—the legal or illegal export of a nation's currency and foreign exchange. Capital flight occurs because people lose faith in their government or in the future of their economy. When capital flight occurs, businesses and even the government often face a cash shortage. At a minimum, capital flight limits the funds available for domestic capital investment.

Even private citizens can contribute to capital flight. Suppose that someone in Moscow wants to turn rubles into dollars. First, the person would go to several banks and purchase traveler's checks. Next, the individual would destroy the checks and then fly to New York. Third, the checks would be declared as being lost or stolen so that they can be redeemed in the U.S. for dollars.

Corruption

Corruption at any level of government is an obstacle to economic development. Sometimes corruption takes the form of minor officials requiring modest bribes to get even the smallest things done. At other times, corruption occurs on a massive scale.

When Ferdinand Marcos was president of the Philippines, foreign investors poured billions into the country's economy. Years later, however, the majority of Filipinos still lived in poverty. Officials later charged that Marcos had stolen at least \$500 million from the nation and deposited the money in personal Swiss bank accounts.

When the Soviet Union began to collapse in the late 1980s and early 1990s, the Communist party took billions of dollars out of its own accounts, government-owned enterprises, and even its own central bank and deposited the money in various Swiss, European, and American banks. At the time, the Soviet secret police used a sophisticated network of trade delegations, central bank offices, and even Soviet embassies to move the money abroad—money that could have been used to modernize the Russian economy after the fall of communism.

War and Its Aftermath

Unfortunately, many of the developing nations of the world–Angola, Afghanistan, Egypt, Ethiopia, Cambodia, Somalia, and Vietnam to name just a few–were the scenes of bloody civil wars in the late 1900s. The immediate impact of war is the devastating loss of lives and property, not to mention the damage to the country's infrastructure.

Education



Developing Nations Although enrollment in schools, and the literacy rate, are improving in developing nations, many lack basic educational tools. What is the status of free public education in developing countries?

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The aftermath of war can linger for decades. Poland lost virtually all of its *intelligentsia*—its scientists, engineers, and even most of its merchant class—to the gas chambers and concentration camps in World War II. The loss of this talent contributed to the slow recovery of the Polish economy after the war, and even hindered its economic development after the fall of communism.

The widespread use of chemical weapons and land mines make simple activities like farming extremely difficult in many areas. Moreover, many of the people injured by these weapons, such as children playing in fields, were not participants in the war in the first place. The weapons of war-as discussed in the cover story-often impede economic development long after the war is over.

International Agencies

The problems of the developing countries have not gone unnoticed by the more successful countries of the world. Two agencies, in particular, work directly with developing nations to solve their problems.

The International Monetary Fund (IMF) offers advice to all nations on monetary and fiscal policies. It also helps support the currency of some developing nations with loans so that the countries can compete in an open market and attract foreign investors.

Another important international lending and development agency is the World Bank Group, more commonly known as the **World Bank.** The World Bank is an international corporation that makes loans and provides financial assistance and advice to developing countries. The World Bank is owned by IMF member nations, but it operates as a separate organization.

Recently, the World Bank has undertaken projects to control the desert locust in East Africa. It also has funded projects to develop inland water transportation in Bangladesh, rural transportation systems in Vietnam, and even tax modernization in Kazakhstan.



Student Web Activity Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 19—Student Web Activities* for an activity on the International Monetary Fund.

Section 1 Assessment

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Checking for Understanding

- 1. Main Idea Describe what a developing country is and some of the economic problems it may experience.
- 2. Key Terms Define developing country, crude birthrate, life expectancy, zero population growth, external debt, default, capital flight, International Monetary Fund, World Bank.
- **3. List** three reasons why there is concern for the plight of developing countries.
- **4. List** eight factors that may be obstacles to economic development.
- **5. Compare** the per capita GNP of Algeria with that of Argentina.

Applying Economic Concepts

 Life Expectancy Explain why an official of a developing nation would have both positive and negative views of increasing life expectancy.

Critical Thinking

7. Identifying Alternatives Suppose you are an official in charge of economic development in a developing country. Choose the first two obstacles to economic development that you would address. Then tell why you would tackle them first.

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Opening Doors: W. Arthur Lewis

Economist Sir W. Arthur Lewis achieved many firsts. After attending school in his native St. Lucia, he earned a scholarship to attend the London School of Economics (LSE) where, in 1937, he graduated first in his class. Soon after, while working on a Ph.D. in economics, he became the first black to receive an assistant lectureship at the LSE. In 1979 he became the first black to win the Nobel Prize in economics (jointly with Theodore Schultz). Lewis's prize-winning work focused on the economic problems of developing nations.

INSIGHT INTO DEVELOPING NATIONS

In particular, Lewis challenged the prevailing view that the supply of labor in developing nations is upward sloping, so that an increase in the demand for labor results in an increase in wages. Real wages, noted Lewis, tend to stay at low levels in many developing nations regardless of the increases in demand for labor. The only solution, he reasoned, is that the supply curve for labor has to be perfectly elastic—or horizontal rather than upward sloping—so that an increase in demand will leave wages unchanged. His theory explains why countries such as Sri Lanka are still underdeveloped, although they have been developing for nearly 100 years.

Lewis did not claim to have solved the problems of the developing countries. His contributions, however, have made existing economic models and theory more applicable to realistic conditions.

"HOW I CONDUCT MYSELF"

Lewis explained how he felt about his illustrious career:

"I had never meant to be an economist. . . . What was this economics? I had never heard of it before, and nobody in St. Lucia knew what it was . . . ," he recalled. "Looking backward . . . I have lived through a period of transition. . . . I have been subject to all the usual disabilities—refusal of accommodations, denial of jobs for which I had

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been recommended, generalized discourtesy, and the rest of it. All the same, some doors that were supposed to be closed opened as I approached them. I have got used to being the first black to do this or that, which gets to be more difficult as the transition opens up new opportunities. Having to be a role model is a bit of a strain, but I try to remember that others are coming after me, and that whether the door will be shut in their faces as they approach will depend to some small extent on how I conduct myself."

evelop

Examining the Profile

- Demonstrating Reasoned Judgment Why might an increase in demand for labor not increase the wage rate in developing countries?
- Drawing Conclusions What does Lewis mean by "the usual disabilities" he faced?

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A Framework for Development

SECTION 2

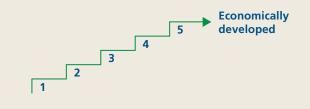
Study Guide

Main Idea

Economists suggest that developing nations have several ways of achieving their economic growth.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by listing the stages of economic development. Then describe what occurs during each of the stages.



Key Terms

primitive equilibrium, takeoff

Objectives

After studying this section, you will be able to:

- 1. Explain the stages of economic development.
- Describe the steps industrialized countries can take to help developing countries.
- Describe the steps developing countries can follow to help themselves.

Applying Economic Concepts

Primitive Equilibrium Have you ever had a day during which nothing much was attempted and nothing much got done? Read to find out why this type of equilibrium is a stage that developing economies sometimes go through.

Cover Story

Easing the Debt Burden

COLOGNE, Germany—Leaders from the Group of Seven industrial nations agreed Friday to cut the

debt burden of the world's poorest countries in what they described as a decisive push to alleviate poverty.

President Jacques Chirac of France said the relief, mainly for African countries, could total



Market in Burundi

countries, could total about \$65 billion . . . [but] the amount could approach \$90 billion if other creditors joined the

initiative. Some loans—about \$15 billion worth—would be canceled outright, and mechanisms would be put in place to evaluate the countries for other forms of debt relief, based on future economic reforms.

-The New York Times, June 19, 1999

B ecause the problems of the developing nations are so great, economic development is a formidable task. Many approaches have been tried, and others, such as the one described in the cover story, have much promise.

Stages of Economic Development

Some economists have suggested that developing countries normally pass through several stages on their way to economic development. Others argue that the process is not uniform for all countries. Even so, it is helpful to think of economic development as occurring in stages, even if the boundaries between these stages are not always clear-cut.

Primitive Equilibrium

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The first stage toward economic development is **primitive equilibrium.** It is "primitive" in the sense that the society has no formal economic organization. An example would be the Inuit of





Population Explosion Over the next 30 years, almost 98 percent of population growth is projected to take place in developing countries.

the past century, who shared the spoils of the hunt with other families in the village.

A people-or country-in primitive equilibrium often have no monetary system and may not be economically motivated. No capital investment takes place, and the society is in equilibrium because nothing changes. Rules are handed down from one generation to the next, and culture and tradition direct economic decision making.

Transition

The second stage of economic development is one of transition. It consists of a break with primitive equilibrium and a move toward economic and cultural changes. The break may be brief and sudden, or it may take years. A country does not grow economically in this transition stage, but old customs begin to crumble. People begin to question their traditions, and they try new patterns of living.

Takeoff

The third stage of development-takeoff-is not reached until the barriers of primitive equilibrium are overcome. A country in the takeoff stage begins to grow more rapidly than before. One reason is that customs have been put aside, and people have begun to seek new and better ways of doing things. Another reason is that the people have begun to imitate the new or different techniques that outsiders have brought into the country. Still another reason is that an industrial nation may be providing financial, educational, or military aid.

During the takeoff stage, a country starts to save and invest more of its national income. New industries grow rapidly, and profits are reinvested in them. Industry uses new production techniques, and agricultural productivity greatly improves.

Semidevelopment

The fourth stage is semidevelopment. In it, the makeup of the country's economy changes. National income grows faster than population, which leads to higher per capita income. At the same time, the core of the country's industry is built. The nation spends heavily on capital investment, and technological advances are made.

High Development

The final stage of development is high development. In this stage, efforts to obtain food, shelter, and clothing are more than successful. Most people have their basic needs and wants met. They turn their attention to services and consumer goods such as washing machines, refrigerators, and video equipment.

The nation no longer emphasizes industrial production. Instead, it increases services and provides more public goods. Mature service and

Careers

Peace Corps Volunteer

Are you willing to work for minimal pay in unfamiliar surroundings? Are you a dedicated individual who can work effectively with people?

The Work

Peace Corps volunteers take on two-year assignments overseas. They receive eight to 14 weeks of training in the history, culture, and language of the country in which they will serve. Duties include working with the people of the



host country to improve food production, health care, and other basic needs. Salary is an allowance for living costs. Housing, medical care, and transportation are provided.

Qualifications

College training is not required, but assignments may be made on the basis of the volunteer's experience and skills. Volunteers must be U.S. citizens and at least 18 years old.

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THE GLOBAL ECONOMY

The New Peace Corps

On March 1, 1961, President Kennedy signed an executive order establishing the Peace Corps. Since then, tens of thousands of volunteers have served in the villages, towns, and cities of more than 130 countries.

In the past, it was easy to spot Peace Corps volunteers. They wore Birkenstocks and loose-fitting, gauzy garb. They often had wide-eyed notions of saving the world. To many of them, "capitalism" was a four-letter word.

No more. Today's Peace Corps volunteers—80 percent of whom are in their 20s—still want to help the world, but they also want to help themselves. Many volunteers have business degrees and view the Peace Corps as a two-year internship, culminating with a return home to a job with a top company.

manufacturing sectors are signs of a highly developed economy.

Priorities for Industrialized Nations

The World Bank has become a powerful force in economic development because it often requires that countries actually make market reforms as a condition for obtaining a loan. Because of its considerable experience with developing nations, the World Bank has a list of recommendations for both developing and industrialized countries.

First, trade barriers, especially nontariff barriers, need to be reduced or eliminated. The World Bank has estimated that eliminating trade barriers would generate as much as \$50 billion annually in export earnings for the developing countries.

Second, industrialized countries need to implement macroeconomic policies that reduce budget deficits, lower interest rates, and stabilize inflation and foreign currency fluctuations. This would help the economic development of all types of economies. When industrialized economies grow, What better way to gain experience than by helping a developing nation get its corporate feet on the ground?

"I'm definitely joining to improve my skills for a better job," said Beth Atkinson, 22, who recently received a bachelor's degree in business administration from Indiana Wesleyan University. Next month, she heads for Mali in West Africa to help craftsmen and entrepreneurs form businesses. "You hear a lot of talk about global business, and I thought there's no better way to go than this," she said.

-The New York Times, July 18, 1999

Critical Thinking

- **1. Analyzing Information** According to the article, in what way is the Peace Corps changing?
- 2. Understanding Cause and Effect For what reasons are young people joining the Peace Corps?

their increased international trade often includes, and benefits, the developing economies.

Third, the industrialized nations need to provide more external financing to the developing countries. This financing could be direct aid, or it could be indirect aid to international agencies.

Fourth, the industrial economies need to support the economic development of developing countries. Traditionally, the majority of United States foreign aid has been granted to achieve political aims. Between one-half and two-thirds of all U.S. foreign aid has been used for military supplies and training, either directly or indirectly.

Priorities for the Developing Countries

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As mentioned earlier, the World Bank also has a list of recommendations for the developing countries. The developing countries face the responsibility for directing their own economic development and future.

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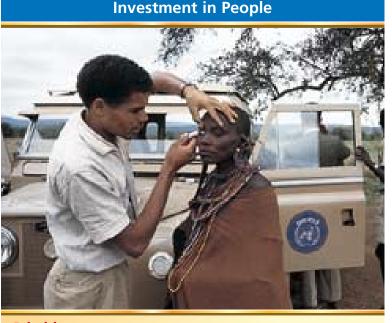
First, governments in developing countries need to invest more in people–education, family planning, nutrition, and health care. The wealth of any nation, as Adam Smith wrote, resides in the strength and vitality of its people.

Second, improve the climate of free enterprise. Many price controls, subsidies, and other regulations that restrict the free development of markets should be removed. The World Bank suggests that competitive markets—not politicians—make the WHAT, HOW, and FOR WHOM allocation decisions.

Third, open economies to free trade. Many developing economies have quotas, tariffs, and other barriers that are used to protect domestic jobs and infant industries. At the same time, however, the trade barriers protect inefficient industries and depress a country's standard of living. Countries that open their markets to the world will benefit from

comparative advantage and will ultimately develop competitive specialties of their own.

Fourth, developing countries, like the industrialized ones, need to follow policies that curb



Priorities Investment in basic health care is an important priority for developing nations. *What is the reasoning for investing in people?*

inflation, reduce borrowing, and decrease deficits. Their policies also must allow market incentives such as profits, so that the economies can begin to sustain their own growth.

Section 2 Assessment

ONTENTS

Checking for Understanding

- 1. Main Idea Describe the nature of economic development. Does development happen all at once? Explain.
- **2. Key Terms** Define primitive equilibrium, takeoff.
- 3. List the stages of economic development.
- 4. **Describe** what actions industrialized countries can take to help developing countries.
- **5. Describe** recommendations that the World Bank has for developing countries.

Applying Economic Concepts

 Primitive Equilibrium Imagine that a society is in primitive equilibrium—nothing is changing internally to begin economic development. Describe an event that could be a potential source of change.

Critical Thinking

7. Making Inferences The International Bank for Reconstruction and Development was organized near the end of World War II. For what purpose do you think it was founded?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

BusinessWeek

DECEMBER 7, 1998

In 1951 the Indian Institutes of Technology (IIT) was founded. The school was established to produce an educated class to build dams, bridges, and power plants for the newly independent country. Today, IIT graduates are seen as the key to helping India prosper.

Whiz Kids

Some of the most prominent chief executives, presidents, entrepreneurs, and inventors in the world are graduates of IIT, India's elite institution of higher learning. Its impossibly high standards, compelling the mostly male student body to average fewer than five hours of sleep a night, produce [numerous] graduates who are masters at problem-solving. . . .

The rise of IITians, as they are known, is a telling example of how global capitalism works today. The best companies draw from around the world, and the result is a global class of worker: the highly educated, intensely ambitious college grad who seeks out a challenging career, even if it is thousands of miles from home. By rising to the top of Corporate America, these alumni lead all other Asians in their ability to reach the upper echelons of world-class companies. . . .

And the Indian government, to its credit, has not tried to keep these first class students at home. In many ways, the IIT grad is the hottest export India has ever produced. . . .

... Thousands of graduates have [immigrated] to the U.S., causing the Indian government anxiety over the brain drain of its brightest. A full 30% of the graduating class—over 500 students—headed to the U.S. for graduate degrees and better

Newsclip



job opportunities in 1998. In the more popular computer-science programs, nearly 80% leave for Silicon Valley.... While IIT does offer graduate programs, students know that an advanced degree from a U.S. institution is the entry ticket to an American or global corporation—and big bucks.

... The bottom line for students and grads is that India has produced a world-class university at surprisingly little cost. By nurturing the schools, the government hopes to reap huge rewards as these grads invest in India and draw it further into the circle of global trade and prosperity.

-Reprinted from December 7, 1998 issue of *Business Week*, by special permission, copyright © 1998 by The McGraw-Hill Companies, Inc.

CONTENTS

Examining the Newsclip

- **1. Understanding Cause and Effect** In general, how has global capitalism affected today's college student?
- 2. Making Predictions Do you think India will benefit as IIT graduates move into the global workplace? Why or why not?

Financing Economic Development

SECTION 3

Study Guide

Main Idea

Economists suggest that developing countries can make progress by encouraging foreign direct investment, building human capital, and encouraging regional cooperation.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by describing what may result if resources are mobilized for the wrong reasons.



Key Terms

expropriation, soft loan, free-trade area, customs union, European Union (EU), euro, ASEAN, cartel, population density

Objectives

After studying this section, you will be able to:

- 1. **Describe** one internal and two external sources of funds for economic development.
- 2. **Explain** the role of international lending and developing agencies.
- **3. Explain** how regional cooperation can assist economic growth.

Applying Economic Concepts

Growth and Development Do you think you would buy more products if you didn't have to pay tariffs? Read to find out why free-trade areas are helping developing nations today.

Cover Story

NEW YORK (CNNfn)—Federal Reserve Chairman Alan Greenspan said Thursday that "dollarization" by Latin American countries might help the United States if it promoted stability in

Is Dollarization on the Horizon?

promoted stability in the region.

Dollarization is when another country adopts the dollar instead of



its own currency. Countries reportedly considering such a move include Mexico, Argentina and El Salvador.

Greenspan appeared with Deputy Treasury Secretary Lawrence Summers at a Senate Banking panel hearing to discuss issues that would arise if other countries wanted to adopt the dollar as their own currency.

—CNNfn, April 22, 1999

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or a developing country to foster industries in which it has a comparative advantage, it needs capital. Funds may be needed, for example, to provide irrigation for farms or heavy equipment for mining. Capital is also needed to build roads and highways for bringing products to ports for shipment to the rest of the world.

Financial capital generally can come from different sources, but it is always hard to obtain unless the developing countries have a certain degree of financial stability. One interesting attempt to achieve financial stability, as you read in the cover story, involves the potential use of the United States dollar in place of existing domestic currencies.

Development With Internal Funds

Internal funds are an important source of capital. In many cases, they may be the only source of capital for a developing country. To generate these internal funds from savings, an economy must produce more than it consumes.

CHAPTER 19: DEVELOPING COUNTRIES 533

Savings in a Market Economy

If a developing country is modeled after a market economy, the incentive to save stems from the profit motive. Firms often try to borrow funds for various projects, and banks charge interest rates on savings that are set by the forces of supply and demand. If the demand for money is high, the rate will rise, and more saving will be encouraged. Saving, in turn, produces financial capital.

One economy that developed in this way was Hong Kong. Before reunification with China, government interfered very little, and people were free to pursue almost any economic activity they desired. By 1997, Hong Kong's per capita GNP was about 90 percent of that of the United States, and more than 40 times greater than China's.

Savings in a Command Economy

Other developing countries, such as Cuba, the Dominican Republic, and Uganda, had command economies at one time or another. However, because the citizens were also poor, they had no ability to save on their own. Despite the poverty, their governments were still able to force savings on the economy. This was done by forcing people to work on farms, roads, or other projects the government thought were needed for economic development.

Unfortunately, history shows that although command economies can mobilize resources, they do not always use them to promote economic growth. More often, resources are mobilized for political reasons or personal gain. In addition, nearly all forced mobilizations fail to instill long-term incentives or work ethics in the people. When resources are mobilized for the wrong reasons, the cost in personal, economic, and political freedoms is higher than most people want to pay.

Development With External Funds

No matter what system of government a less developed country has, it is never easy to develop an economy with internal funds alone. Therefore, some developing countries try to obtain external funds. There are three ways they can do this.

One way a country can obtain external funds is to attract private funds from foreign investors who

STANDARD&POOR'SINFOBYTE

Brady Bonds Brady bonds provide developing nations a way to restructure their sovereign debt obligations to foreign commercial banks. In a Brady restructuring, a portion of the developing country's debt is forgiven with the balance being exchanged for various series of bonds. The maturity of these new obligations is extended, reducing the country's annual debt service requirements. To attract investors, Brady bonds are often backed by U.S. Treasury securities and offer investors attractive yields.

might be interested in the country's natural resources. This happened in the Middle East with its abundance of oil, in Chile with its abundance of copper, and in Asia with its abundance of mahogany and teakwood.

If foreign investments are to work, the arrangement must be beneficial to both the investor and the host country. Many investors are unwilling to take major risks unless they are sure that the developing country is politically stable. Developing countries that follow a policy of **expropriation** the taking over of foreign property without some sort of payment in return—make it harder for all developing nations to attract foreign capital.

Another way to obtain external funds is through borrowing from foreign governments. The United States and other industrialized countries, including Canada and those in Western Europe, grant some aid to developing countries.

The former Soviet bloc also gave economic assistance to developing countries. More than 50 percent of its aid, however, went to allies such as Cuba, Ethiopia, Afghanistan, and Iraq. Like most other foreign aid, it was given mostly to promote political, rather than economic, ends.

A third way a country can get external financial assistance is by obtaining a loan from an international agency. The International Bank for Reconstruction and Development-part of the World Bank Group-helps developing countries

CONTENTS

with loans and guarantees of loans from private sources. In the past, many of the loans have been for projects such as dams, roads, and factories. More recently, loans have been made to developing nations in an effort to get them to change their economic policies.

Another part of the World Bank Group is the International Finance Corporation (IFC), an agency that invests in private businesses and other enterprises. The International Development Association (IDA) makes **soft loans**-loans that may never be paid back-to the neediest countries. The rates on IDA loans are interest-free and may be for periods of 35 or 40 years.

Countries can also get help from the IMF. After the Berlin Wall came down and the Soviet Union collapsed, a number of former Soviet bloc countries wanted to trade their currencies on global exchanges. The IMF provided loans to help with the conversion. Today, such currencies as the Hungarian *forint*, the Polish *zloty*, and the Czech Republic's *koruna* are listed on world markets. This is important because investors must be able to purchase the currencies of these countries to conduct international trade with them.

Regional Cooperation

Some countries have joined together to form a **free-trade area**—an agreement in which two or more countries reduce trade barriers and tariffs among themselves. The free-trade area does not try to set uniform tariffs for nonmembers. Other countries have formed a **customs union**—an agreement in which two or more countries abolish tariffs and trade restrictions among themselves and adopt uniform tariffs for nonmember countries.

The European Union

The most successful example of regional cooperation in the world today is the **European Union** (EU). The EU, formerly known as the European Community, started out as a customs union and now consists of the 15 member nations shown in Figure 19.2 on page 536.

In January 1993, the EU became the single largest unified market-in terms of population and

output-in the world, although the United States has since caught up in terms of GNP. The EU is a single market because there are no internal barriers regulating the flow of workers, financial capital, or goods and services. Citizens of the EU hold common passports, can vote in European elections, and can travel anywhere in the EU to work, shop, save, and invest.

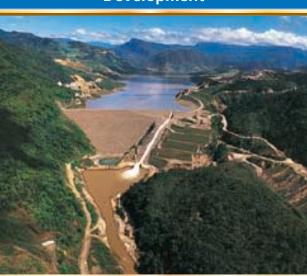
The final stage of European integration is scheduled for 2002 when the EU introduces a single currency-the **euro**-to replace the majority of individual national currencies now issued by the member nations.

ASEAN

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The economic success of the EU has encouraged other nations to try regional cooperation. In 1967 five nations–Indonesia, Malaysia, Singapore, the Philippines, and Thailand–formed the Association for Southeast Asian Nations, or ASEAN.

Today, **ASEAN** is a ten-nation group working to promote regional peace and stability, accelerate economic growth, and liberalize trade policies in order to become a free-trade area by 2008.

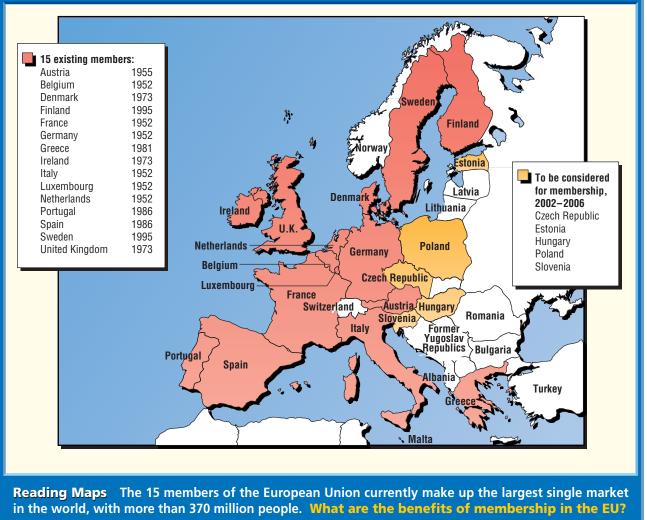


External Funds This hydroelectric dam is part of the Uribante-Caparo development in the Venezuelan Andes. *Through what agencies can developing countries borrow money to finance projects*?

Development

ECONOMICS At a glance

Figure 19.2



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OPEC

A number of oil-producing nations have joined to form a **cartel**-a group of producers or sellers who agree to limit the production or sale of a product to control prices. OPEC's members were able to take advantage of a natural monopoly and push up world oil prices. Since it was organized in 1960, OPEC has successfully transferred trillions of dollars from the industrialized nations to the OPEC members as a result of higher prices paid for oil.

Even with all this financial capital, however, the growth rates of most OPEC nations were low by

most standards. In Iran, revolution interrupted the development of the domestic economy. After Iraq invaded Kuwait, Iraq suffered huge losses during the Persian Gulf War. Overproduction by OPEC also pushed oil prices down.

The South Korean Success Story

One of the most successful developing nations is South Korea. In the early 1950s, South Korea was one of the poorest nations in Asia. It had the highest **population density**-number of people per square mile of land areain the world. It also had a war-torn economy that had to be rebuilt.

The South Korean government opened its markets to world trade. In addition, the government focused only on a few industries so that its people could gain experience producing and exporting for world markets. Businesses in the South Korean economy first began to produce inexpensive toys and consumer goods for the world market. Next, they moved into textiles such as shirts, dresses, and sweaters. Then they invested in heavy industry, such as shipbuilding and steel manufacturing. Later, South Korea produced consumer and electronic goods such as radios, televisions, microwave ovens, and home computers. Most recently, the country has been making a strong bid as a leading producer of automobiles. The South Korean experience shows that a country can change a war-damaged economy to a welldeveloped, highly industrial one.

South Korea The Republic of Korea, also know as South Korea, overcame overwhelming odds to become the second largest economic power in Asia and the eleventh largest in the world. *What plans did South Korea implement to bring about economic growth*?

Section 3 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** What can a country do to encourage economic development?
- 2. Key Terms Define expropriation, soft loan, free-trade area, customs union, European Union (EU), euro, ASEAN, cartel, population density.
- Describe one internal and two external sources of funds for economic development.
- **4. Describe** the role of international lending and developing agencies.
- **5. Explain** how regional cooperation aids economic growth.

Applying Economic Concepts

6. Growth and Development Provide an example to support the following statement: Economic growth in developing nations is often slowed by the internal political problems and external political goals of industrialized nations.

Critical Thinking

7. Drawing Conclusions Developing countries often need capital from foreign investors. What economic and political conditions serve to encourage this kind of investment?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.



CRITICAL THINKING



Summarizing Information

Have you ever read something and just a short time later forgotten what it was all about? Summarizing information-reducing many sentences to just a few well-chosen phrases-helps you remember the main ideas and important facts contained in a longer reading selection.

Learning the Skill

To summarize information, follow these guidelines:

- Your summary should be much shorter than the reading selection.
- Your summary should contain the main ideas of the reading selection.
- Your summary should not contain your opinion. It should contain only the opinion of the person who wrote the selection.
- Your summary sentences and phrases should not be copied word for word from the selection. Write a summary in your own words to be sure that you understand the main ideas of the selection.

Practicing the Skill

Read the selection below, then answer the questions that follow.

During the 1950s, foreign aid from industrialized countries was considered absolutely necessary for the economic growth of developing nations. European countries and Japan, just beginning to recover from the massive destruction of World War II, were unable to provide aid during that period. The United States, which had helped with Japan's and Europe's recovery, provided the largest share of aid to developing nations during that decade. When Europe and Japan became richer, the distribution burden shifted. From 1960 to 1990, the United States's percentage of total aid supplied by the



Memorial sculpture, Hiroshima Peace Park

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Western nations to developing countries dropped from 60 percent to 17 percent.

- 1. What is the main idea of this paragraph?
- 2. What are the supporting details of the main idea?
- **3.** Write a short summary that will help you remember what the paragraph is about.

Application Activity

Spend fifteen minutes reading and summarizing two articles on the front page of today's newspaper. Circle the articles and have a classmate ask you questions about them. How much were you able to remember after summarizing the information?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Section 1

Economic Development (pages 521–526)

- **Developing countries** have the same problems that industrialized countries have, only their problems are much larger.
- With more than 1.2 billion people in the world existing on an income of less than \$1 a day, concern for developing countries is humanitarian as well as political.



- Developing countries face numerous obstacles, including population pressures from high **crude birthrates** and increasing **life expectancies**.
- A shortage of natural resources, limited education and technology, religion, large **external debts**, **capital flight**, corruption, and the aftermath of war all add to the problems of developing countries.
- The **IMF** and the **World Bank** are two international agencies that help with development.

Section 2

A Framework for Development

(pages 528-531)

- It helps to think of economic development as proceeding in stages, even if this does not always describe the pattern experienced by every nation.
- The stages include **primitive equilibrium**, breaking with primitive equilibrium, **takeoff**, semidevelopment, and high development.
- The World Bank recommends that developed nations reduce trade barriers, reform macroeconomic policies, increase financial support, and support the policy reforms of the developing countries.

• The World Bank also recommends that the developing countries themselves invest in people, improve the climate for enterprise, open their economies to international trade, and revise their macroeconomic policies.

Section 3

Financing Economic Development

(pages 533-537)

- Developing countries need to encourage saving to secure a domestic source of investment funds. Command economies often try to force saving by mobilizing resources in a manner that restricts individual freedoms.
- Attempts to secure capital through **expropriation** usually backfire because foreign investors become fearful of investing.
- External funds are sometimes available from foreign governments and banks; the World Bank and the IMF also provide considerable assistance.
- Some countries have been able to help themselves through regional cooperation in the form of a

free-trade area, or a customs union such as the European Union.

- The ten ASEAN countries are working to develop a free-trade area by 2008.
- The oil-producing nations also organized a **cartel**, called OPEC, to increase the price of oil.



• South Korea is a striking example of a developing nation having achieved success: it has developed from a poor war-torn economy to the eleventh-largest economy in the world.

Chapter 19 Assessment and Activities



Self-Check Quiz Visit the *Economics: Principles* and *Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 19—Self-Check Quizzes* to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Write the key term that best completes the following sentences.

- a. population density
- f. expropriation g. free-trade area
- b. customs union
- c. primitive equilibrium h. cartel
- d. external debt
- i. crude birthrate
- e. capital flight j. takeoff
- 1. A(n) _____ is the formal arrangement to limit the production of a product.
- **2.** A cooperative trade arrangement among nations that does not set uniform tariffs for nonmembers is called a(n) _____ .
- **3.** A(n) _____ is a cooperative trade arrangement among nations that sets uniform tariffs for nonmembers.
- **4.** A developing country may have a very high _____, contributing to rapid population growth.
- 5. When <u>becomes too large, countries have</u> difficulty paying the interest.
- 6. The least developed stage in economic development is called _____.
- 7. The third stage of economic development is the
- 8. The problem of _____ occurs when corrupt officials take money out of the country and deposit it abroad.

- **9.** When <u>takes place, it is harder for developing</u> nations to attract foreign capital from industrialized countries.
- **10.** The number of people per square mile of land is a measure of _____.

Reviewing the Facts

Section 1 (pages 521–526)

- 1. **Identify** three reasons why industrialized countries are concerned about the problems of developing nations.
- **2. Name** the condition in which the average number of births and deaths are approximately equal.
- **3. Identify** two agencies that help developing economies.

Section 2 (pages 528–531)

- **4. Describe** what happens in a developing country in the stage of breaking with primitive equilibrium.
- **5. Identify** four changes that take place in the takeoff stage of economic development.
- **6. List** the four World Bank recommendations for developing nations.

Section 3 (pages 533–537)

- Name three sources of financial capital for development.
- **8. Explain** how a developing country can attract foreign capital.
- **9. List** three international agencies that provide funds for economic development.

Thinking Critically

CONTENTS

1. Predicting Consequences What do you think would happen if industrialized nations and international agencies chose to withdraw support for developing nations?

540 UNIT 5 INTERNATIONAL AND GLOBAL ECONOMICS

2. Summarizing Information What are the functions of the IMF? Use a graphic organizer similar to the one below to help answer the question.



- **3. Demonstrating Reasoned Judgment** Would it be effective policy for the United States to increase financial aid to developing nations, regardless of their internal political conditions or economic policies? Explain the reasoning behind your answer.
- 4. Making Generalizations Studies indicate that, in general, landlocked nations tend to have lower per capita income levels than surrounding nations that are bordered by oceans and seas. Why do you think this is the case?

Applying Economic Concepts

- **1. Growth and Development** How will the economic growth and development of developing countries affect you in the future?
- 2. **Primitive Equilibrium** Why is it increasingly unlikely that countries in the world today will remain in the primitive equilibrium stage of economic development?
- **3. Drawing Conclusions** Developing nations often need capital from foreign investors. What economic and political conditions serve to encourage this kind of investment?

Math Practice

Suppose that a small country has a per capita GNP of \$20,000 and a population of 1,000,000. How large is the total GNP? If population is expected to grow by 20 percent in the next ten years, and if total GNP

is only expected to be 10 percent larger, what will be the per capita GNP in 10 years?

Thinking Like an Economist

What advice would you give a developing nation that was trying to decide between a command-type economy and a market-based economy?

Technology Skill

Using E-Mail For one week, keep a journal of all the economic problems of developing nations that you hear reported in the news. List the countries in one column and their problems in a second column.

Using the information you collected, write a plan detailing how the United States could assist in alleviating some of the economic problems of a specific country. E-mail your plan to your local representative or legislator. Be sure to support your proposal with statistics, facts, quotes, and historical events.

Building Skills

Summarizing Information A summary is a list of the major points or themes of something. To summarize is to present those points or themes briefly and without details. Read the following excerpt, then summarize the main points.

A problem for many developing countries is a lack of infrastructure. Infrastructure refers to the physical developments necessary for efficient production and distribution of goods and services. Such things as roads, ports, electric generators, telephones, and sewers are considered infrastructure. Without these things, it is difficult for an economic system to function efficiently. The lack of infrastructure makes it impossible for such countries to compete successfully with more developed nations. Building an infrastructure is very expensive. Many developing nations cannot afford to invest in these improvements.

> **Practice** and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook, Level 2.*

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SHOULD CHILD LABOR BE ABOLISHED?

A Case Study:

Although it may surprise many Americans, child labor is prevalent in many parts of the world today, especially in developing countries. The estimates vary, but perhaps 200 million children under the age of 12 work regularly instead of going to school. Sometimes, the children start to work as soon as they are able; some of the youngest workers are just three years old.

Should the United States take steps to end child labor? Many people answer that question with a resounding "Yes!" They hold that child labor is immoral. The children, they say, are virtual slaves. Many are treated harshly, even cruelly—forced to work 12-hour days at mind-dulling yet dangerous tasks. These activists have put forth a variety of proposals aimed at eliminating child labor throughout the world.

Other people, however, oppose any such action. While deploring any mistreatment of children, they emphasize the contexts in which the children live. The cultures in many developing countries, they point out, support children working, while the state of the economies of these countries often requires it. Westerners, they say, may oppose child labor, but are in no position to force their beliefs onto other countries.

As you read the selections, ask yourself: Should the United States work to abolish child labor in developing countries?

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PRO Child Labor Is "Reprehensible"

[There is] an unmistakable trend . . . toward convergence on global condemnation of child labor. . . .

However, ... global child labor continues to flourish. The movement toward convergence in law seems strangely detached from everyday experience. Because it is illegal almost everywhere, child labor remains largely a hidden phenomenon, confined to the back channels and informal sectors of many economies, including advanced economies. The simple fact that child labor remains widespread would seem to belie any convergence of global sentiment around its eradication. The sheer magnitude of the problem suggests a movement in law quite divergent from plain reality. The gross dimensions of the problem provide alarming support for the conclusion that cultural relativism may be prevailing—that local exceptionalism may dominate over convergent trends.

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ENTERPRISE

But examination of the history of child labor in advanced economies brings the argument full circle. While it can be argued that use of child labor is particular to a nation's current stage of economic development (a relativist argument), it also appears to be true, in the main, that advanced nations, always and everywhere, have grown beyond their heavy reliance on child labor and, thus, every nation should eventually be expected to do so (a universalist argument). When the debate is shifted in this way, the relevant question becomes: is heavy reliance on child labor necessary to economic development? We have shown that it is not; that it has always been economically inefficient and injurious....

Child labor is inappropriate because, first, it is (or will come to be seen as) morally reprehensible and, second, it is economically inefficient and injurious. Case closed.

> -Hugh D. Hindman and Charles G. Smith, Journal of Business Ethics

CON "Cultural Interference Is Not the Answer"

Ah, America! Thy commandeering ways!

We, the self-styled world's policeman, are seeing the error in our authoritarianism, our imposition of U.S. values on foreign cultures, our self-righteous yet mistaken belief that our way is the best way, indeed, the only way. . . . I'm talking about child labor. . . .

Even the previously unbending International Labor Organization has recognized the validity of not trying to force other cultures to adopt Western ideals. Several years ago it amended its broad-brush policy against all child labor after hearing from children in a variety of cultures at an international conference on child labor...

Americans are finding out our lush economy provides luxuries to American families and children not afforded in many other countries, particularly poor ones. Most developing countries rely heavily on child labor. . . .

In developing countries, children are considered economic commodities. Parents love their children, of course, but they rely on them to help support the family and that is considered normal. As a



result, the more children a poor family has, the greater a labor pool it possesses.

Former Pakistani Prime Minister Benazir Bhutto once told me that her country, one of the worst offenders, has passed laws that ban child labor. But every time she would try to enforce them, hundreds of thousands of parents would storm her residence....

Every American would tell you our goal is to wipe out child labor completely: to bring developing nations on par with us economically so they no longer need to make 6-year-olds toil.

But...the fear is cultural, not economic, extinction....

[W]e'll just have to learn to watch and worry, because, as we are just beginning to recognize, cultural interference is not the answer.

-Bonnie Erbe, Journal of Commerce

Analyzing the Issue

CONTENTS

- 1. What are two basic objections that Hindman and Smith raise against child labor?
- Would Hindman and Smith consider Erbe's argument "relativist" or "universalist"? Explain.
- Do you think the United States should take steps to end child labor in developing countries? Explain your position.

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Global Economic Challenges

Economics & You

In order to accomplish economic development, the nations of the world have to overcome the problems that hinder their economic growth and they must make use of their resources effectively. To learn more about the challenges and opportunities of a global economy, view the Chapter 27 video lesson:

Global Economic Challenges



Chapter Overview Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 20—Chapter Overviews* to preview chapter information. **CLICK HERE**

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Dish-shaped solar power reflectors at a solar power station

The Global Demand for Resources

SECTION 1

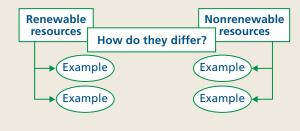
Study Guide

Main Idea

Worldwide economic challenges include overpopulation, food shortages, resource depletion, and environmental pollution.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by explaining the difference between renewable and nonrenewable energy resources and providing two examples of each.



Key Terms

subsistence, nonrenewable resources, embargo, gasohol, aquifer

Objectives

After studying this section, you will be able to:

- 1. Explain Malthus's views on population growth.
- Explain the importance of conserving nonrenewable resources.
- **3. List** ways that people are using renewable energy resources to conserve scarce resources.
- 4. **Identify** other resources endangered by population growth.

Applying Economic Concepts

Scarcity Have you ever had a water shortage in your area? Read to find out how the price system works to solve this problem.

Cover Story

Six Billion People on Earth

WASHINGTON (AP)—Chances are it will be a boy born in the Third World on Oct. 12 [1999], but no one will know exactly which child pushes the world's population to 6 billion. It took most of the



Earth's population surpassed 6 billion in 1999.

age of humanity to build in terms mark the first billion in 1804 and more than a century to mark the second. But now the world is adding a billion every dozen years or so.

Demographers believe growth will slow down, [but] . . . median U.N. projections say it will take 14 years to add another billion people That's calculated from the yearly rate of population increase of about 1.4 percent . . .

—The Cincinnati Post, June 19, 1999

CONTENTS

S carcity has been defined as the fundamental economic problem. You experience scarcity at the personal level, and scarcity is also a problem at the national level, even for relatively prosperous nations such as the United States. At the global level, scarcity reveals itself through food, energy, and other resource shortages—all of which are compounded as world population grows.

The world population has now surpassed 6 billion, and, as you read in the cover story, the next billion will be here before long. In many respects, the earth is a very small planet, and it seems to be getting smaller every day.

The Global Population Issue

Population growth has fascinated the world ever since Thomas Malthus published his *Essay on the Principles of Population* in 1798. His views, published over 200 years ago, are still relevant because of the earth's growing population and its demand for resources.

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Malthus: Views on Population

Thomas Malthus argued that population would grow faster than its ability to feed itself. The problem, he stated, was that population tended to grow geometrically, as in the number sequence 1, 2, 4, 8, 16, 32, 64, and so on. The ability of the earth to feed people, however, would grow at a slower and more constant rate, such as 1, 2, 3, 4, 5, and so on. Eventually, according to Malthus, the masses of the world would be reduced to a condition of **subsistence**—the state in which a population produces only enough to support itself.

In many countries–especially in the larger cities of the developing world–poverty is widespread. The Indian city of Calcutta, for example, has about 14 million people. Calcutta is one of the poorest and most crowded cities in the world. Hundreds of thousands of street dwellers beg and search for food in the city dumps and refuse piles. At night they sleep in the streets. Similar conditions exist in other parts of the world. In these places, the Malthusian prediction of a subsistence standard of living is a cruel reality.

Was Malthus Wrong?

In many other parts of the world, conditions are much better. Malthus did not foresee the enormous advances in productivity that have allowed an increasing standard of living to accompany a growing population. He also did not foresee that families might choose to have fewer children. In some countries, such as Japan, for example, the population is actually shrinking.

Malthus's predictions may not have been entirely accurate for the industrialized countries, but they still have long-term consequences for all nations. Today, for example, population pressures in other parts of the world are causing problems for many industrialized countries, including the United States, which is besieged by illegal immigrants from China, Mexico, and Haiti. As a result, many experts argue that it is in everyone's interest to control global population growth.

World Population Trends

Comparative world population growth rates are shown in **Figure 20.1.** For the world as a whole, the

annual growth is approximately 1.4 percent a year. Although this may not seem very fast, the consequences can be enormous over time. Every year, the population increase is almost the equivalent of adding another Mexico to the world. If the population keeps growing at this rate, it will reach about 8 billion by 2020, and nearly 12 billion by 2050. At this rate, the population of the world will almost double from the time you graduate from high school until you retire at age 65.

Nonrenewable Energy Resources

Population pressure adds to the depletion of many important resources, and energy is one of these resources. Energy is necessary for production, and energy makes our lives more comfortable. In the form of gasoline, it powers cars. In the form of gas and electricity, it heats and cools homes.

Most of the energy we use comes from **nonrenewable resources**—resources that cannot be replenished once they are used. The major nonrenewable resource category—fossil fuels—is being consumed at an alarming rate and may only last for a few more generations at current consumption levels.

Oil

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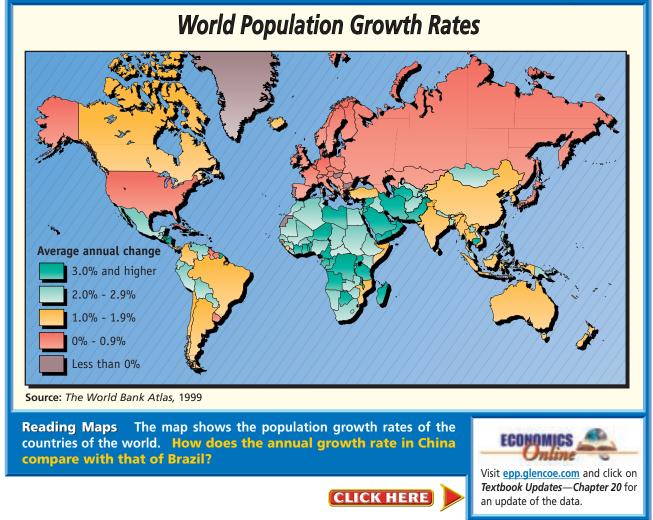
Oil is the biggest category of nonrenewable energy in use today-primarily because it was so inexpensive during much of the 1900s. Oil was also much more convenient to use than natural gas or coal. Because it could be refined into low-cost gasoline, automobiles were large, heavy, and usually got poor gas mileage.

The low cost of oil even affected living habits. People moved to the suburbs and then spent hours traveling to and from their jobs. Gasoline was so inexpensive that trains and city busses never became as important as the automobile.

In 1973, however, the oil-producing countries of the Middle East placed an **embargo**–a restriction on the export or import of a commodity in trade–on oil sales to the West. The embargo caused energy shortages in many parts of the world, driving the price of oil from \$5 to more than \$35 a barrel. Prices came

ECONOMICS At a glance

Figure 20.1



down slowly after that, reaching their inflationadjusted pre-embargo levels in the mid-1990s. In late 1998, the price of oil even dropped below \$9 a barrel, although it has since rebounded.

With the exception of the 20 years following the oil embargo, the world was flooded with, and grew up on, cheap oil. The oil was eagerly consumed and, because it is a nonrenewable resource, is gone forever.

Natural Gas

This category constitutes our second most important energy source, accounting for nearly 25 percent of energy consumption in the United States. Historically, natural gas was more difficult to transport and use than oil, and so it did not become an important energy source until much later. Eventually inexpensive natural gas became popular as an industrial fuel, and so many factories and industrial technologies were built around it.

Coal

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Coal is the third-largest nonrenewable resource used in the United States. While it was the first nonrenewable resource to be used on a large scale, oil and natural gas soon displaced it because they are more convenient to use. Today, nearly two-thirds of the world's known coal reserves are in the United States, Russia, and China. Coal is the most plentiful fossil fuel in the world, but even these supplies will eventually run out. Estimates based on the present rate of consumption indicate that the reserves will last about 200 years.

Nuclear Energy

Nuclear energy is the newest and fourth largest source of nonrenewable energy, accounting for nearly 8 percent of all energy used in the United States. The future of nuclear power is uncertain, however, for a number of reasons.

One of the reasons is cost. Nuclear reactors are expensive to build and maintain. Second, nuclear energy produces highly hazardous byproducts, the safe disposal of which poses a major problem.

Finally, there is always some chance that a nuclear plant will fail, or that another accident would happen like the 1979 near-meltdown at Three Mile Island in Pennsylvania. The 1986 meltdown of the reactor in Chernobyl, Ukraine, served as another reminder of the nuclear power hazards.

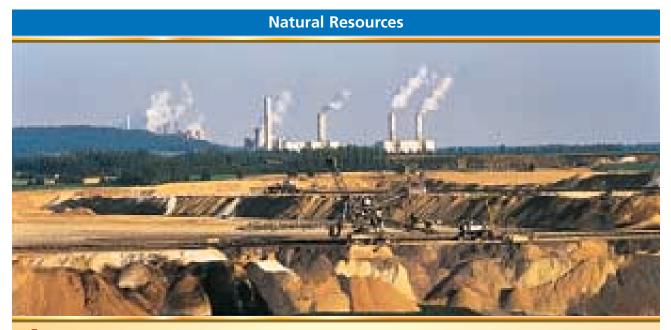
Renewable Energy Resources

Before 1973, the low price of oil gave everyone very little incentive to develop alternative energy sources. Renewable energy resources became more popular after the oil embargo, but today they still account for a small portion of the total energy we consume.

Hydroelectric Power

Historically, hydropower was used to power the mills and factories of the Northeast in the 1800s. The power was reliable, and its source–water–was free at the time. Later, a number of larger generators at the Hoover Dam and the Tennessee Valley Authority were completed to generate power on a much larger scale. Aside from these newer projects, most dams were small and could not distribute power very efficiently to other locations.

When oil was obtained cheaply from the Middle East, hydroelectric power became less important. By the late 1950s, many of the commercial power dams in the United States had been abandoned. When oil became more expensive, however, steps



Energy Demand for scarce resources is one of the most pressing problems facing all nations. What are nonrenewable energy resources?

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were taken to bring some of the dams back into use. Today, hydroelectricpower is our most important renewable energy source, accounting for half of all renewable energy consumed in the United States.

Biomass

Energy made from biomass-wood and wood waste, peat, municipal solid waste, straw, corn, tires, landfill gasses, fish oils, and other waste-is the second most important category of renewable energy sources. While relatively new, this category accounts for approximately 40 percent of all renewable energy consumed in the United States today.

Ethanol is grain alcohol made from corn. Ethanol is used to make **gasohol**—a fuel that is a mixture of 90 percent unleaded gasoline and 10 percent ethanol. Although gasohol has not been accepted as quickly as supporters first hoped, it still has a small share of the market in some areas.

Other, lesser-known alternatives are also being used. Major food firms have made progress in converting chicken waste to fuel in the form of methane gas. This gas can then be recycled for industrial and commercial use. Over 100 cities are currently recovering and using methane gas generated in municipal landfills when the landfill waste decomposes.

Solar Energy

Solar power is the third largest source of renewable energy. Solar power has never been effectively harnessed, however, and it did not get much attention at first. After the oil embargo, the federal government began issuing grants to researchers to find ways to reduce the cost of solar energy. While solar power holds much promise, it only accounts for a fraction of the renewable energy used today.

Wind Power

The fourth-largest category of renewable energy sources is wind-generated electricity. In the early 1980s many wind farms were built, each of which produced enough electricity to power a mediumsized city. California is the largest producer of wind-generated energy, but it can also be found in Texas, Minnesota, Vermont, Hawaii, and Iowa.

ECONOMICS At a glance

Figure 20.2

The Most Dangerous Nuclear Reactors



Reading Maps Nuclear reactors serve three general purposes. Civilian reactors generate energy for electricity and sometimes also steam for heating. Military reactors create materials that can be used in nuclear weapons. Research reactors are used to develop weapons or energy production technology. How many nuclear power plants are located in the former Soviet Union and Eastern Europe?

While this is still a small category, wind-generated electricity is an important source of power in areas such as islands or remote peninsulas where it is difficult to obtain other forms of energy.

Other Resources

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Resources other than those used to generate energy–water and land in particular–may also be in danger. In the past, American concern with water focused mainly on the pollution of the

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CYBERNOMICS SPOTLIGHT

Science

Biotechnology is making an impact in the world economy. Genetic engineering allows researchers to place a gene into a plant in order to create a new plant that can grow twice as fast. Agricultural experts estimate that within the next 40 years the world population will increase by 50 percent, which means farmers will need to produce more crops than ever before. To sustain economic growth in the developing world, experts believe that food productivity improvements must be made using this type of biotechnology.

country's waterways. Today, however, the focus has shifted to the availability of water and the realization that water is in critical supply in many parts of the country.

More than 80 percent of the water consumed in the United States is used in agriculture, and most of this water is used in surface irrigation, which has a high evaporation rate. As a result, much water is lost into the atmosphere.

Farmers have been able to tap large sources of water from rivers, streams, ponds, and **aquifers**–underground, water-bearing rock formations.

Aquifers supply nearly 40 percent of the water that farmers use and are also the source of fresh water for many communities.

One of the largest aquifers in the country is the Ogallala Aquifer, which supplies water to the High Plains states from Texas to Nebraska. So much water has been pumped out, however, that the aquifer's water table has been dropping about three feet a year. Some experts even predict that the Ogallala Aquifer will run out of water in the next 40 or 50 years.

The water shortage is also a problem in southern California. Over the years, plans have been proposed and projects have been undertaken to bring in water from areas hundreds of miles away.

Land is another valuable natural resource subject to the demands of a growing world population. Land, however, is different from other resources because there is only a fixed supply that cannot be moved from one place to another.

A growing population has the effect of reducing the amount of land available for agriculture. As communities grow, factories, roads, and houses are built on the fertile land near the rivers. The development of this land forces the farmers to move to the outskirts. The phenomenon, now known as urban sprawl, has claimed some of our finest farmland-covering fertile fields with expressways, shopping centers, and housing developments.

Section 1 Assessment

Checking for Understanding

- **1. Main Idea** How does population growth affect world resources?
- 2. Key Terms Define subsistence, nonrenewable resources, embargo, gasohol, aquifer.
- **3. Describe** how Malthus believed population growth would affect the future of the planet.
- 4. **Identify** the importance of conserving nonrenewable resources.
- 5. List the major renewable resources today.
- 6. Describe the effects that a growing population has on scarce resources such as aquifers.

Applying Economic Concepts

7. Scarcity During the oil embargo, many people openly advocated nonprice gasoline rationing. Some favored allowing each automobile owner to use 10 gallons per week. What are the pros and cons of such a mandatory rationing program?

Critical Thinking

CONTENTS

8. Making Comparisons How do renewable resources differ from nonrenewable resources?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.



A Classical Economist: Thomas Malthus (1766-1834)

Thomas Malthus was an English economist, sociologist, and member of the clergy who pioneered modern population study. He was a kind, gentle person dedicated to his father and his church. He was also the economist who is credited with giving economics the title of "the dismal science."

EDUCATION

Malthus was born to wealthy parents and was educated at home by his father and by private tutors. At age 18 he enrolled at Jesus College, Cambridge, to study mathematics and the classics.

While he was away from home, Malthus and his father often exchanged letters debating the popular issues of the day. At one point, the elder Malthus became fascinated with a popular utopian vision that promised eventual peace, prosperity, and equality for all. Malthus attacked the argument in a 50,000-word letter to his father. The elder Malthus was so impressed that he encouraged Thomas to publish the treatise for others to read. The result was An Essay on the Principle of Population as It Affects the Future Improvement of Society, published in 1798.

POPULATION THEORY

The book was an instant success that was to change forever the way people viewed population. In it, Malthus argued that poverty and distress would be the eventual fate of people, not the popular utopian vision. He reasoned that population would increase at a geometric rate (1, 2, 4, 8, 16, ...), while food supplies would increase at an arithmetic rate (1, 2, 3, 4, 5, ...).

According to this progression, population growth would eventually outstrip the available food supply, resulting in famine, misery, and a subsistence standard of living for the masses.

At first, Malthus thought only three factors could check the growth of population: war, famine, and disease. Several years later, as

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he refined his ideas, he added a fourth check: moral restraint. Separately or together, these factors could raise the death rate, lower the birthrate, or both. In Malthus's view, however, these restraints on population growth would not be enough to prevent most of the world from forever remaining at the subsistence level. Despite his considerable accomplishments in other aspects of economics, Malthus is best remembered for his pessimistic views on population.

oulation

Examining the Profile

- Evaluating Information Do you agree or disagree with Malthus's predictions about population? Why or why not?
- For Further Research Find out what Malthus's other contributions to economics were.

Economic Incentives and Resources

SECTION 2

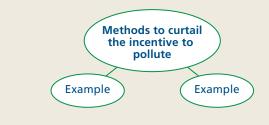
Study Guide

Main Idea

Incentives help preserve scarce resources.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by providing examples of ways to curtail the incentive to pollute.



Key Terms

glut, pollution, acid rain, pollution permit

Objectives

After studying this section, you will be able to:

- 1. Explain how the price system helps conserve water, natural gas, and oil.
- 2. Describe government efforts to limit pollution.
- 3. State the importance of using resources wisely.

Applying Economic Concepts

Markets and Prices Have you ever traveled to different gasoline stations to get the cheapest price for a gallon of gas? Read to find out how markets and prices operate in the free enterprise system.

Cover Story

Lawmakers Can Recycling in House

WASHINGTON (AP)—The House of Representatives has rejected mandatory recycling for its offices. The House has

had a voluntary recy-

Recycling area

cling program for a decade. But the Associated Press reported last month that most congressional offices were still mixing aluminum cans, bottles and different grades of paper. Many federal agencies and local governments separate their trash and sell recyclable material.

—The Washington Post, June 11, 1999

Conomic systems require incentives to make them work smoothly. In a market economy, incentives such as the profit motive and prices can be used to preserve scarce resources.

Economic incentives are important because they tend to encourage more widespread and lasting results than other programs that rely on conscience, patriotism, or other motivations. Those who create them, as you read in the cover story, often abandon voluntary conservation programs.

The Price System

ONTENTS

With resources becoming increasingly scarce, it is important to see how the price system contributes to the conservation-or lackof scarce resources. The examples that follow illustrate this influence.

The higher price for oil after 1973 dramatically affected the production of oil. When oil was priced below \$5 a barrel, few countries were willing to devote large resources to retrieve it. When the price increased to \$35 and more, many countries increased their production almost overnight. At the same time, interest in alternative energy sources soared, and countries poured billions into energy-research projects ranging from shale oil to solar power.

By 1981, however, prices began to fall because of a worldwide **glut**—a substantial oversupply—of oil. A decline in demand caused by a recession contributed to the worldwide oversupply. People had also learned to conserve energy, which further reduced the demand for oil.

The collective impact of the increase in world supply and the decline in demand caused OPEC to lose some of its ability to control the supply of oil. This control slipped even further after the Persian Gulf War, when some OPEC members increased oil production to replenish their financial reserves depleted during the war. Finally, oil prices reached their pre-embargo levels in the mid-1990s.

Lower oil prices had several consequences. First, the search for alternative energy sources began to wane. Second, the exploration for new oil slowed dramatically because companies already had enough oil. Third, consumers changed their spending habits again. New houses became large once more, and consumers opted for low-mileage, sport utility vehicles instead of fuel-efficient economy cars.

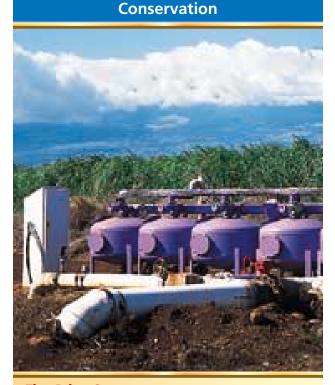
In the end, the very mechanism that encouraged people to conserve energy when oil prices were high-the price system-did exactly the opposite when oil prices went down again.

When farmers pump water out of the ground to water their crops, they use pumps driven by electricity or natural gas. When water tables fall because of pumping, it costs more to pump the water. The increased cost of pumping encourages everyone to use it more efficiently, thus conserving a scarce resource.

In time, the falling water table makes some of the shallow wells useless, requiring deeper and more costly wells to be drilled. At this point, the price system will affect farming decisions again. Deeper wells will be dug for the most profitable crops, while marginal and unprofitable crops will be abandoned. Ultimately, the price system works to establish an equilibrium between the rising cost of obtaining water and the profitability of the crops grown with the water. Although some crops and fields will be abandoned, they are likely to be the ones that were the least productive in the first place. As a result, the actual amount of lost agricultural output will not be that large.

When the price of natural gas was low in the 1960s, the quantity demanded was high. Because government regulated the price, however, producers had little incentive to increase its production.

Congress then tried to stimulate gas discovery and production by lifting the price controls on deep gas-pockets of natural gas, 15,000 feet or more below the earth's surface. The price of this gas then rose to three or four times its previous level, causing even more exploration for deep gas. Later, all gas price controls were removed, which encouraged even more production.



The Price System Surface irrigation systems are fairly common in the United States. *How does the price system affect farming decisions?*

ONTENTS

The lack of interest in drilling for shallow gas was consistent with the law of supply, which maintains that the lower the price paid to producers, the less will be brought to market. Also consistent with the law of supply was the effort by producers to produce more of the deregulated deep gas when its price went up.

Pollution and Economic Incentives

Pollution is the contamination of air, water, or soil by the discharge of poisonous or noxious substances. Pollution is a problem that most countries face today.

Careers



EPA Inspector

The Environmental Protection Agency (EPA) is the federal agency responsible for protecting the environment. It employs thousands of inspectors to supervise enforcement of pollution control laws and regulations.

The Work

EPA inspectors examine air, water, and soil for evidence of pollution. Investigating the cause and scope of pollution requires inspectors to visit sites where pollution might occur and test for pollutants and collect samples for analysis. They monitor the air quality of major cities and of industrial sites. After completing their examination, EPA inspectors put together reports of their findings and initiate action to stop further pollution.

Qualifications

EPA inspectors generally have a college education with a specialization in environmental or biological science, plus several years of experience in the field. As with most government jobs, EPA applicants must pass a civil service examination.

The Incentive to Pollute

Pollution does not occur on its own: it occurs because people and firms have an incentive to pollute. If that incentive can be removed, pollution will be less of a problem.

For years, factories have located along the banks of rivers so they could dump their refuse into the moving waters. Some factories that generated smoke and other air pollutants located farther from the water, but their tall smokestacks still blew the pollutants long distances. Others tried to avoid the problem by digging refuse pits on their property and burying their toxic wastes.

In all three situations, factory owners were trying to lower production costs by using the environment as a giant waste-disposal system. From an economic point of view, the reasoning was sound. Firms get ahead when they lower production costs. Those who produce the most at the least cost make the most profits.

The cost of pollution to society as a whole, however, is huge. For example, **acid rain**–a mixture of water and sulfur dioxide that makes a mild form of sulfuric acid–falls over much of North America, damaging countless rivers and streams. Fertilizer buildup and raw sewage runoff poison ecosystems in other areas. The damage caused by pollution is extensive, but it can be controlled. One way to control pollution is through legislated standards. Another way is through economic incentives.

Controlling Pollution

Legislated standards include laws that specify the minimum standards of purity for air, water, and auto emissions. Congress, for example, has declared that all automobiles sold in the United States must meet certain pollution standards.

Legislated standards can be effective, but they are generally inflexible. Once a standard is set, a firm has to meet it or cease production. Because of this, many firms lobby extensively to exempt their industry from the pollution controls.

Another method of controlling pollution is to have companies pay taxes on the amount of pollutants they release. The size of the tax would depend on the severity of the pollution and the quantity of toxic substances being released.



Fighting Pollution



The Incentive to Pollute Pollution is one of the painful by-products of modern life. Damage caused by pollution is extensive. What methods are used to hinder the incentive to pollute?

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Suppose a community wants to reduce air pollution caused by four factories, each of which releases large quantities of coal dust. A \$50 tax on every ton of coal dust released into the air would be applied to each factory. Devices attached to the top of the factory's smokestacks would measure the amount of dust released during a given period, and the factory would be billed accordingly.

Each company would then have the choice of paying the tax or removing the pollutants themselves. This tax approach does not try to remove all pollution. It does, however, allow individual companies freedom of choice. It also provides flexibility that legislated standards lack—and may even prevent some plants from closing entirely.

Some firms would rather pay the tax than clean up their own pollution. These firms, however, help fund the pollution clean-up campaign. Consumers will not have to fund these efforts out of their income, sales, or property taxes.

Pollution Permits

The Environmental Protection Agency (EPA) currently uses a similar system to reduce sulfur dioxide emissions at coal-burning electric utilities. Sulfur dioxide emissions from the burning of coal and oil react with water and oxygen to form compounds that fall to the earth as acid rain. The EPA's target is to ultimately reduce sulfur dioxide emissions to a level of nine million tons per year.



Student Web Activity Visit the *Economics: Principles and Practices* Web site at <u>epp.glencoe.com</u> and click on *Chapter 20—Student Web Activities* for an activity on the Environmental Protection Agency.

Issuing Permits

The EPA started its program by issuing sulfur dioxide **pollution permits**—federal permits allowing public utilities to release pollutants into the air—in 1993. Utilities are not allowed to operate without them, but if a utility has more permits than it needs, it can sell them in one-ton increments. Thus, utilities that want to spend money on emissions cleanup could sell their permits, and use the cash to clean up their emissions. Those who prefer to purchase and use the permits can do so.

The first set of pollution permits went on sale in March 1993 at the Chicago Board of Trade. The one-ton permits brought prices ranging from \$122 to \$450 each. The EPA issued additional permits in successive years, but fewer permits will be issued as time goes on, making them scarcer and more expensive. Ultimately, the utilities will either have to pay very high prices for the permits, or they will have to buy additional antipollution devices.

Advantages

The system also has advantages for environmentalists who wanted utilities to reduce pollution at even faster rates. Several environmental groups purchased the pollution permits with their own funds, making them scarcer and therefore more expensive, for the utilities.

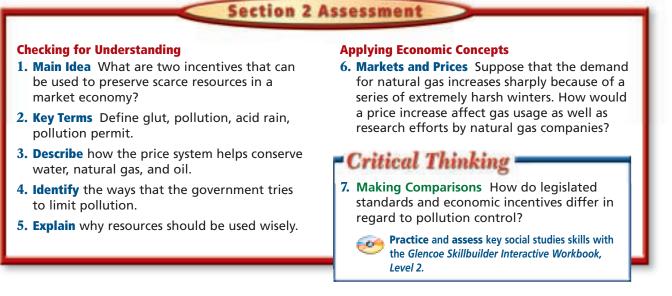


Global Warming Most climatologists agree that the earth is likely to warm by as much as 2° to 9° F over the next 50 to 60 years. Human activities have released gasses that trap in the sun's rays and heat the earth. Scientists believe that polar caps will begin to melt, raising sea levels from at least a foot to as much as 6.6 feet in the next century. An estimated one-third of the world's population who live within 40 miles of the sea could be facing severe flooding and depletion of their freshwater sources.

Using Resources Wisely

The resource challenge is vital to a growing global economy. Resources become scarce when the quantity demanded for them is greater than the quantity supplied. In a market economy, the price system plays a major role in the allocation of resources. It tells consumers when resources are scarce. It also helps decision makers allocate resources more wisely.

Economists who understand the workings of a market economy are optimistic about the future, especially if the price system is allowed to function and fulfill its role in the economy. As long as the price "system" is allowed to operate, we will never suddenly run out of an endangered resource.



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BusinessWeek

MAY 24, 1999

Foreign plants and animals are invading North America as a result of increased global trade and tourism. It is estimated that invasive species cost the U.S. more than \$122 billion a year in damages.

They're Here, and They're Taking Over

Bioinvasion, the spread of nonnative species, is fast becoming one of our most costly ecological problems as it disrupts food and agriculture, destroys wetlands, interferes with shipping, and drastically alters natural habitats....

... The list of troublemakers include noxious weeds (\$35 billion), harmful insects (\$25 billion), and organisms, such as the AIDS virus and cholera, that cause human disease (\$6.5 billion)....

There is also a huge untallied cost. Exotic species destroy the ecosystems that support native species, leaving them nowhere to go....

Jack Russell terriers sniffing for snakes in cargo at Guam airport



Newsclip

In Guam, the brown tree snake has eradicated 9 lizard species and 10 types of forest bird....

In many ways, bioinvasion is the dark side of globalization. With more and more goods entering the country, it's easier for pests to stow away. Christopher J. Bright, a researcher at the Worldwatch Institute, says booming tourism also opens the way for invasions. Every day, some 2 million people cross an international border around the world; every week, a million people move between developed and developing nations.

Efforts to control the menace have been far too fragmented. There are 24 federal agencies with some authority to regulate nonnative species, and it has been difficult to coordinate their efforts. . . .

... Under the current system, an import is deemed safe unless it's on a list of organisms known to be harmful. Often, by the time federal regulators have the evidence to blacklist a particular species, it's too late....

Ecologists would prefer a "white-list" law, one that bans entry of plants and animals until they're proven innocent. New Zealand and Australia already have such laws, but some U.S. officials worry that such a policy could alienate trading partners. Still, there is a growing sense that it may be worth the risk....

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Examining the Newsclip

- **1. Understanding Cause and Effect** How has globalization contributed to bioinvasion?
- 2. Analyzing Information Why would a "whitelist" law alienate some U.S. trading partners?

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ONTENTS

Applying the Economic Way of Thinking

SECTION 3

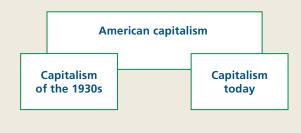
Study Guide

Main Idea

Economics provides a foundation for analyzing choices and making decisions.

Reading Strategy

Graphic Organizer As you read the section, complete a graphic organizer similar to the one below by describing how American capitalism has changed.



Cover Story

The Outlook—Pushing Adam Smith Past the Millennium

WASHINGTON—If Adam Smith were to visit the U.S. at the millennium's end, he would like what he saw....Today, the invisible hand is more limber and supple than ever.



In the past two decades, globalization has forced

globalization has forced American companies to compete on a worldwide scale, and the collapse of communism has extended capitalistic principles to every corner of the globe. Deregulation has injected market forces into areas long insulated from them ... [and] the Internet has helped betterinformed buyers find legions of new sellers, and sellers find far-flung buyers. ...

—The Wall Street Journal, June 6, 1999

Key Terms

cost-benefit analysis, modified free enterprise economy

Objectives

CONTENTS

After studying this section, you will be able to:

- 1. **Describe** the reasoned approach to economic decision making.
- 2. Understand how our market economy will be able to cope with the future.

Applying Economic Concepts

Cost-Benefit Analysis Have you ever decided not to do something because the cost of doing it was greater than the benefits that would be received? Economists call this cost-benefit analysis—and they use this analysis often. If you think the same way, perhaps you are starting to think like an economist.

s a science, economics is concerned with the way in which people cope with scarcity. Because scarcity is a universal problem, the study of economics is important to everyone.

The economic system based on capitalism and free enterprise has, as you just read in the cover story, done quite well. There is also every likelihood that it will continue to do well in the future–although we also expect some evolution and modifications as we deal with new challenges and opportunities.

A Framework for Decision Making

Through the study of economics, you learn that choices must be made. You begin to discover different ways to analyze a problem, and that alternatives must be considered. The late economist Kenneth Boulding observed that economics has evolved to the point that it has now become a generalized theory of choice.

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THE GLOBAL ECONOMY

THE INFORMATION REVOLUTION

In this era, not only is capitalism global but so is the Information Revolution. As powerful data networks spread, the developing nations are being drawn into the borderless information economy.

Inside a gleaming computer center in Taipei, a young engineer labors late into the night. Connected by the Internet to some of the best software writers in the U.S., he is helping design a digital phone system that will match anything the U.S. or Europe can muster.

In China's northern boomtown of Tianjin, an auto worker pores over documents on how to arrange a low-interest mortgage on a modern condominium. In Mexico City, a working couple plows savings into a mutual fund, all to put two children through private school.

Ingenuity, new prosperity, middle-class striving familiar Western values are appearing on the frontiers of capitalism. Multiply these scenes by the millions, and you see the shape of a revolution that

Economics provides a framework for decision making that helps people to become better decision makers. The future will be different than the past, or even the present for that matter, but some things in economics—the way we think about problems—are likely to remain the same.

A Reasoned Approach

Economic decision making requires a careful, reasoned approach to problem solving. The National Council on Economic Education, an organization dedicated to the improvement of economic literacy in the United States, recommends five steps. These steps provide useful guidelines to decision making. will transform the global economy well into the next century. Already, capitalism is flourishing in regions as diverse as communist Asia and the former dictatorships of Latin America. Affluence is lifting millions out of poverty, giving many the chance to purchase their first Fiats and Toyotas as well as their first Apple computers and Panasonic VCRs. And inflation is brought to heel in even the most wayward economies.

The implications are huge for rich and poor alike. Hundreds of millions of peasants are leaving ancient ways of life for the factory. Cities such as Guangzhou and Bangalore teem with new inhabitants. Many are living poorly, of course, but just as many are thriving.

-Business Week, December 14, 1998

Critical Thinking

- 1. Summarizing Information What is the main point of the article? Write a thesis sentence in your own words explaining the main point.
- 2. Drawing Conclusions "The Information Revolution will draw economies from different parts of the world closer." Do you agree or disagree with this statement? Explain your answer.
- 1. State the problem or issue.
- 2. Determine the personal or broad social goals to be attained.
- 3. Consider the principal alternative means of achieving the goals.
- 4. Select the economic concepts needed to understand the problem and use them to appraise the merits of each alternative.
- 5. Decide which alternative best leads to the attainment of the most goals or the most important goals.

-A Framework for Teaching the Basic Concepts, 1996

Life is full of trade-offs, but you will be better equipped to deal with the future if you know how to analyze the problems you will encounter.



ONTENTS

Decision Making at the Margin

Economists use a number of tools to help them analyze and make decisions. Some of these tools include production possibilities curves, supply and demand curves, production functions, and even the National Income and Product Accounts.

One of the most important decision-making tools is the concept of marginal analysis. For example, when a firm makes a decision to produce additional output, it compares the extra cost of production with the extra benefits to be gained. If the benefits outweigh the costs, the firm decides to continue with the additional production. If the costs outweigh the benefits, the firm decides not to produce the additional output.

This process-cost-benefit analysis-involves comparing the costs of an action to its benefits. Firms use cost-benefit analysis when they make decisions to produce or purchase additional capital equipment. Many government agencies use it when they evaluate programs. Individuals also use it when they make decisions. Cost-benefit analysis is even used to make choices among economic goals. Some choices will work against one goal while favoring

STANDARD &POOR'S

Economic Forecasts An economic forecast is a projection regarding the future direction of all or part of the economy. Economists analyze economic data to identify trends, and perform statistical evaluations to build their forecasts. Economists are like scientists in that they study phenomena by making observations based on collected data. The purpose of their studies is to uncover relationships between economic events and variables. An economist may, for example, study trends in the price and sales behavior of the domestic automobile market to arrive at a prediction of future auto sales. Businesses and governments rely on such forecasts for policy-making and goal-setting purposes. Individuals rely on these forecasts for their spending and investing decisions.

INFOBYTE

another, but evaluating the costs and benefits of each choice helps in making decisions.

Finally, we must remember that the economist uses a very broad definition of costs—that of opportunity costs. This ensures that we account for all of the costs of a decision, not just the monetary ones.

Coping With the Future

Everyone wants to know what will happen to the economy in the future. How will it adjust and what course will it take? Part of the answer can be found by examining the way markets work.

Markets and Prices

Our **modified free enterprise economy**–a free enterprise economy with some government involvement–is one that allows buyers and sellers to freely make the decisions that satisfy their wants and needs. The forces of supply and demand interact to establish prices in a market. Prices, in turn, act as signals, helping producers and consumers to make or even alter their spending decisions.

Prices also influence the allocation of resources across markets. The high price of oil in the 1970s made other energy sources competitive. In the 1980s, the high prices of personal computers attracted producers. Competition soon lowered prices and made the same computers affordable to mass markets.

A market economy has many advantages, including the ability to adjust to change gradually, without the need for government intervention. As long as the forces of supply and demand are allowed to function, they will send producers and consumers the signals needed to reallocate resources. Although no one knows what the future will bring, capitalism has demonstrated its ability to adapt in the past, and it is likely to do so again in the future.

The Triumph of Capitalism

CONTENTS

During the 1930s, the forces of socialism and communism were sweeping the world, while capitalist countries were in economic depression. Communism in the Soviet Union had considerable impact upon the world, and socialist parties were on the rise in the European colonies in Africa.

Since then, communism in the former Soviet Union has collapsed under the weight of its own inefficiencies. Many socialist countries have embraced capitalism and the discipline of the market system. In addition, many developing countries have chosen capitalism as their economic system. Many emerging economic powers-including Singapore, South Korea, and Taiwan-owe much of their remarkable growth to capitalism.

Capitalism is now the dominant economic force in the world, but it is not the laissez-faire capitalism of the past. Capitalism has changed because people have addressed some of the weaknesses that Karl Marx and others identified many years ago.

The capitalism of the 1930s was ruthlessly efficient in that it provided only for those who produced or earned enough to buy the necessities of life. Early capitalism had little room for the elderly, the ill, or the incapacitated. Many economies today, including that of the United States, have a modified free enterprise economy, or modified private enterprise system. This is a free-market economy based on capitalism, yet modified by its people to satisfy the economic goals of freedom, efficiency, equity, security, full employment, price stability, and economic growth.

Capitalism has evolved over the years, and it shows every sign of continuing to do so in the future. In this respect, capitalism adjusts to change the same way a market adjusts to small changes in supply and demand-incrementally, with adjustments so small that they are hardly noticed in the short run. This ability to evolve, and to adjust to the demands placed on it, are strengths of capitalism that will continue to ensure its success.

Nature of Capitalism



Adaptability In many industrial countries, capitalism is the prevailing economic system. Capitalism is based on private ownership of the means of production and on individual economic freedom. How was the capitalism of the past different from the capitalism of today?

Section 3 Assessment

CONTENTS

Checking for Understanding

- **1. Main Idea** How does cost-benefit analysis affect the decision-making process?
- 2. Key Terms Define cost-benefit analysis, modified free enterprise economy.
- **3. Explain** the reasoned approach to economic decision making.
- 4. **Describe** how a market economy adapts to change.
- **5. Explain** how marginal analysis assists in decision making.

Applying Economic Concepts

6. Cost-Benefit Analysis Think of a decision you must make in the next few days. How will you use your estimates of the costs and benefits to make your decision?

Critical Thinking

7. Synthesizing Information Provide an example of how prices act as a signal to you as a buyer and as a seller.

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

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CRITICAL THINKING

Making Predictions

Skill

Predicting future events is obviously difficult and sometimes risky. The more information you have, however, the more accurate your predictions will be.

Learning the Skill

Follow these steps to help you analyze information in order to make predictions.

- Gather information about the decision or action.
- Use your knowledge of history and human behavior to identify what consequences could result.
- Analyze each of the consequences by asking: How likely is it that this will occur?

Practicing the Skill

Study the following passage, then answer the questions that follow.



Market scene, Peru

In 1950, only 42 percent of Latin Americans were city dwellers; today almost 73 percent live in cities, according to the United Nations. This compares with 34 percent in Africa and 33 percent in Asia. Despite oppressive poverty, Peruvians seeking a better life, for example, have been fleeing the countryside for Lima at the rate of more than a thousand a day and building settlements that seem like a never-ending expanse of small straw huts next to a noisy highway. The trend has created megacities throughout the continent.

The equation is similar in many countries. The major city attracts one-quarter to one-third of the country's population, with many living in squalid slums . . . encircling the affluent city. Experts say that by the year 2010, Rio de Janeiro and Sao Paulo will be one continuous megalopolis 350 miles long with almost 40 million people.

-by John L. Petersen, The Road to 2015

- 1. What trend does the passage show?
- **2.** Do you think the trend the writer describes is likely to continue?
- 3. On what do you base this prediction?
- **4.** What occurrences might have an effect on changing the trend?
- **5.** What are three possible consequences or outcomes of this trend?

Application Activity

CONTENTS

Analyze three articles in the business section of the newspaper. Predict three consequences of the actions in each of the articles. On what do you base your predictions?

Practice and assess key social studies skills with the Glencoe Skillbuilder Interactive Workbook, Level 2.

Chapter 20 Summary

Section 1

The Global Demand for Resources (pages 545–550)

- Over 200 years ago, Thomas Malthus predicted many of the population problems some developing nations face today-high birthrates, famine, and the threat of a **subsistence** standard of living.
- Malthus did not foresee advances in technology or that some birthrates would fall and some populations cease to grow.
- Many **nonrenewable resources** such as oil, natural gas, and coal are threatened today.
- The oil **embargo** of the early 1970s raised oil prices and encouraged Americans to seek alternative energy sources, along with alternative and renewable energy sources.
- Some renewable energy resources-hydroelectric power, biomass, solar power, wind power-have been developed, includ-

ing **gasohol**, a combination of unleaded gasoline and grain alcohol.

• Other resources like water and land are also coming under pressure because of population growth.



Section 2

Economic Incentives and

Resources (pages 552–556)

- During the oil embargo of the 1970s, high gas prices provided an incentive to preserve resources. When prices came back down, conservation efforts waned.
- As the population has grown and used more energy resources, people have become concerned about pollution.

- The traditional response to pollution is to have the government pass legislated standards prohibiting it.
- Economists argue that pollution cannot be controlled until the economic incentives to pollute are removed.



- Programs including pollution taxes and pollution permits are designed to give firms the incentive to not pollute.
- Markets have the flexibility to adjust to change—an adjustment that affects prices and the allocation of resources.

Section 3

Applying the Economic Way of Thinking (pages 558–561)

- Economics has become a generalized theory of choice and a framework for decision making.
- The National Council on Economic Education has recommended a five-point approach to decision making; the final step involves **cost-benefit analysis**, which compares the cost of a decision to the benefits gained.
- A fundamental knowledge of economics helps people cope with the future, especially now that capitalism has emerged as the dominant type of economic organization in the world today.
- Modern capitalism is not the ruthlessly efficient version of the 1930s; modern capitalism has been modified to suit the economic goals of their people.
- In the markets of the world today, supply and demand establish prices, and prices serve as signals to both producers and consumers.
- The flexibility markets provide enables the modern **modified free enterprise economy** to better deal with the unforeseen events of the future.

Chapter 20 Assessment and Activities



Self-Check Quiz Visit the Economics: Principles and Practices Web site at <u>epp.glencoe.com</u> and click on Chapter 20—Self-Check Quizzes to prepare for the chapter test.

CLICK HERE

Identifying Key Terms

Write the term that best completes the following sentences.

- a. pollution permits
- **b.** biomass
- c. modified free
- g. aquifer h. embargo i. gasohol

f. pollution

- enterprise economy
- d. glut
- j. subsistence
- e. acid rain
- 1. The state in which the population produces barely enough to support itself is _____.
- 2. The United States has a(n) ______, a system that has been altered by its people to satisfy economic goals.
- **3.** A restriction on the export or import of a commodity in trade is a(n) _____.
- 4. _____ is a mixture of 90 percent unleaded gasoline and 10 percent grain alcohol.
- 5. An underground water-bearing rock formation is a(n) _____ .
- 6. The second largest source of renewable energy is

Reviewing the Facts

Section 1 (pages 545–550)

- 1. **Describe** why, despite Malthus's predictions, certain parts of the world have enjoyed steadily increasing standards of living.
- **2. Explain** where the most rapid rates of population growth are found.

- **3.** List the four major nonrenewable energy resources.
- 4. **Describe** the major drawback of nuclear energy.

Section 2 (pages 552–556)

- **5. Explain** how American consumers and the automobile industry reacted to the oil price increases of the 1970s.
- **6. Explain** how the reluctance of oil and gas producers to drill for shallow gas was consistent with the law of supply.
- **7. Describe** what the EPA hopes to accomplish by issuing pollution permits.
- **8. State** how the price system in a market economy helps ensure that resources are used wisely.

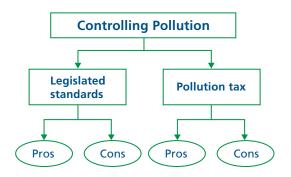
Section 3 (pages 558–561)

- 9. List the steps involved in economic decision making.
- **10. State** the importance of cost-benefit analysis.
- **11. Explain** why adapting to change is important for an economic system.

Thinking Critically

CONTENTS

1. Making Comparisons If you had to decide to use legislated standards or a pollution tax to reduce pollution, which would you choose? In your reasoning, explain the pros and cons of each approach. Use a graphic organizer similar to the one below to organize your answer.



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Chapter 20 Assessment and Activities

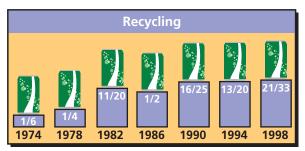
2. Making Predictions In what ways can Americans ensure the wise use of resources? How might the world be different in 50 years if we do not use resources wisely today?

Applying Economic Concepts

- **1. Scarcity** Scarce natural resources are a problem that concerns citizens throughout the world. What can you personally do to help conserve resources?
- 2. Modified Free Enterprise Economy The United States has a modified free enterprise economy in which the government regulates some industries. Do you think the government should play a smaller or larger role in regulating the American economy? Give reasons to support your answer.

Math Practice

Many people all over the world recycle their aluminum cans in order to help our environment. The graph below shows the percentage of aluminum cans that have been recycled over the years. Study the information presented in the graph, then answer the questions.



Source: The Aluminum Association, Inc.

- **1.** During which year was the largest percentage of aluminum cans recycled?
- **2.** In 1974, 2.3 billion cans were recycled. Write a formula to show the total number of cans consumed during that year.

Thinking Like an Economist

Renewable energy resources only account for a small portion of our total energy production. Explain the changes that would have to take place in order for people to make greater use of renewable energy resources.

Technology Skill

Using a Database Create a database on recycling centers in your community. Look in the telephone book to locate the nearest recycling centers. Find out the name, address, phone number, and operation hours of each service, and what services each provides. Use this information to create a database, making separate fields for the materials, the locations, and the rebates paid for recycled items. Print and distribute your database to the rest of the class.

Building Skills

Making Predictions The table below depicts the median inflation rate for advanced economies, developing countries, and countries in transition for selected years. Study the table, then answer the questions that follow.

	1997	1998	1999	1980–89	1990–99
Countries in Transition	14.8	11.0	7.7	1.2	165.6
Developing Countries	5.6	4.8	4.1	9.9	8.4
Advanced Economies	1.7	2.1	2.1	6.9	2.8

Source: World Economic Outlook

- 1. Which economies do you predict to maintain a relatively low rate of inflation? Why do you think this is the case?
- 2. If trends continue, do you project the median inflation rate for developing countries to rise, decrease, or stay at about the same level? Why?

Practice and **assess** key social studies skills with the *Glencoe Skillbuilder Interactive Workbook, Level 2.*

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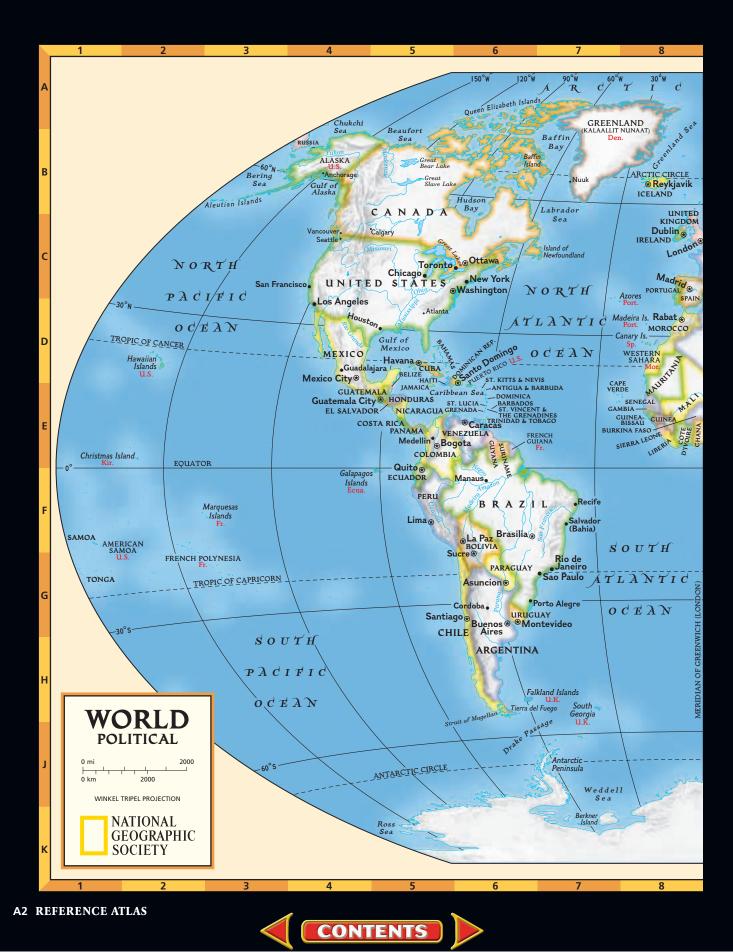
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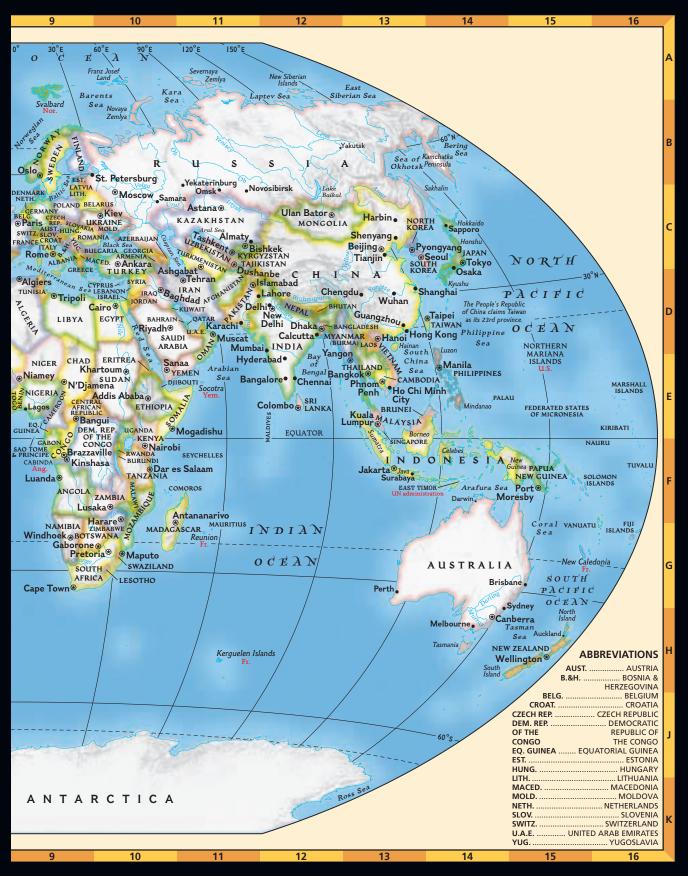
World Political	A2
United States Political	A4
World Land Use	A6
United States Land Use	A8
World GDP Cartogram	A10
World Population Cartogram	A12



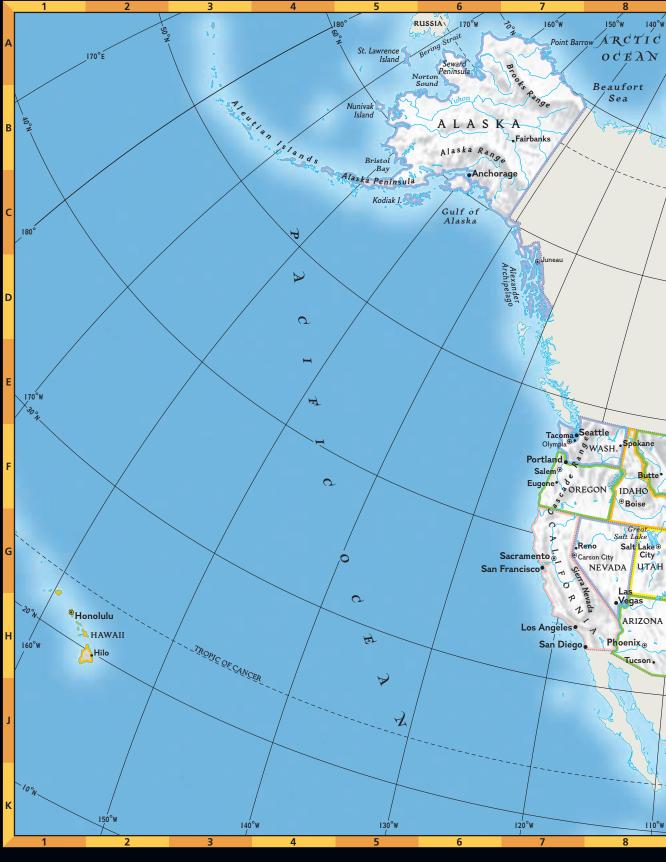
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NATIONAL GEOGRAPHIC SOCIETY

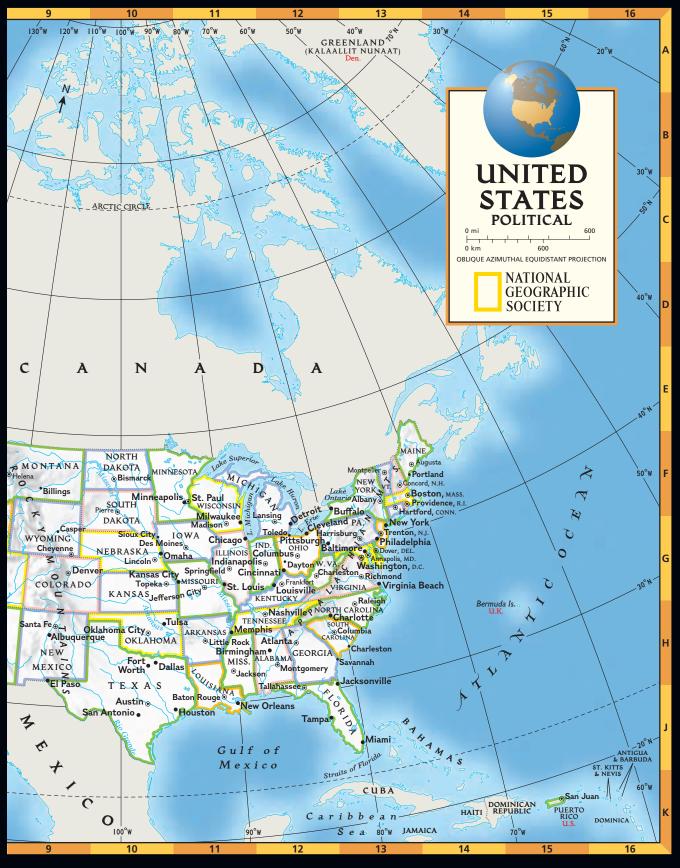


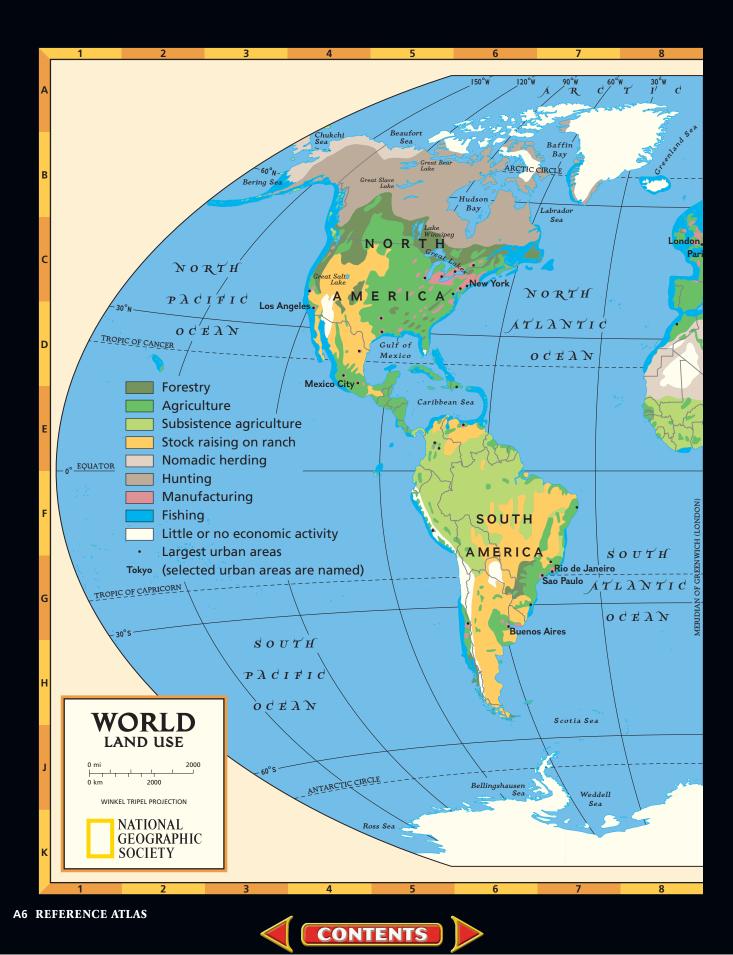


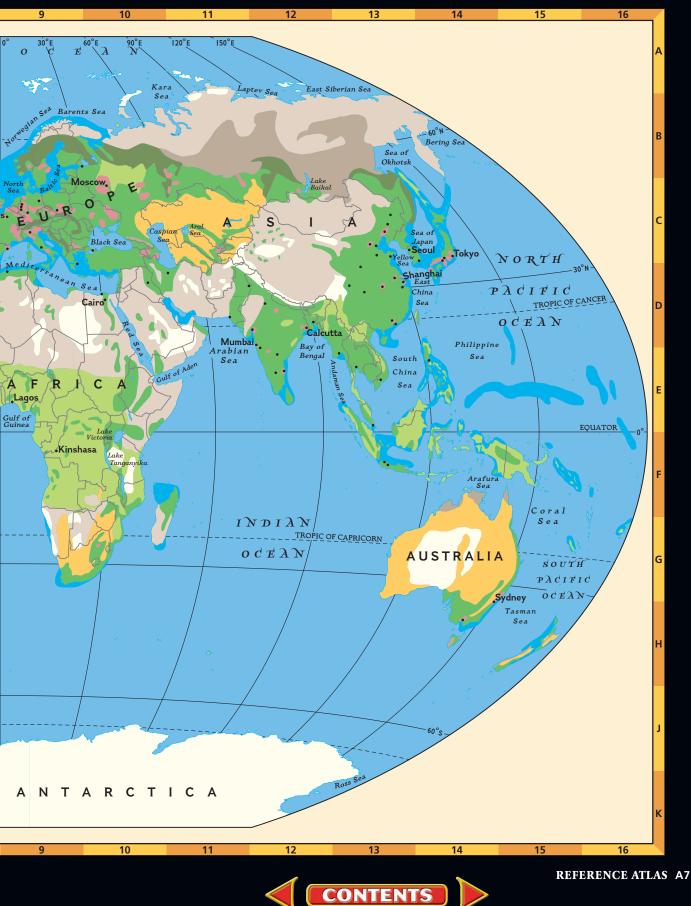






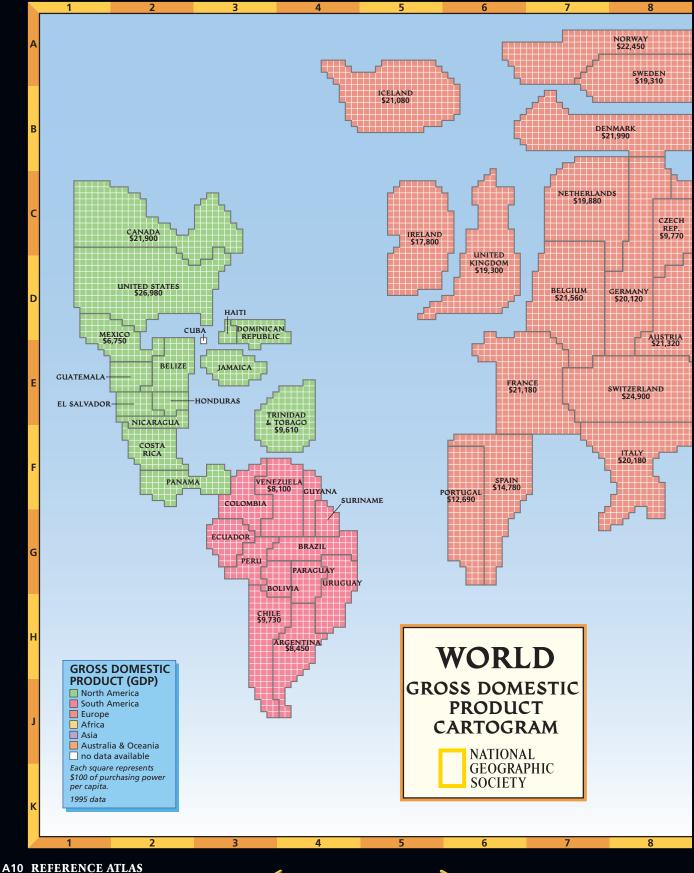


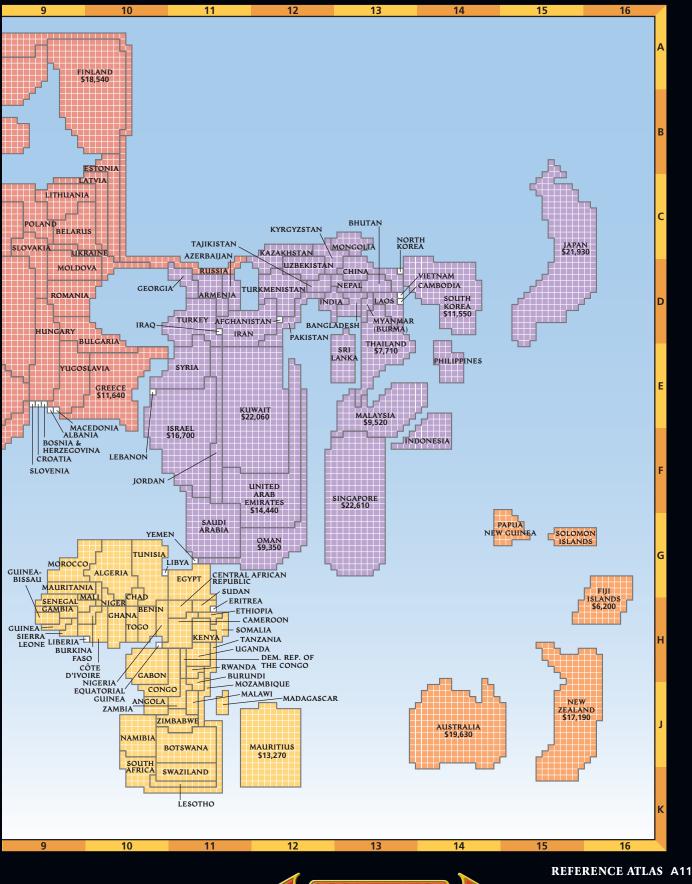


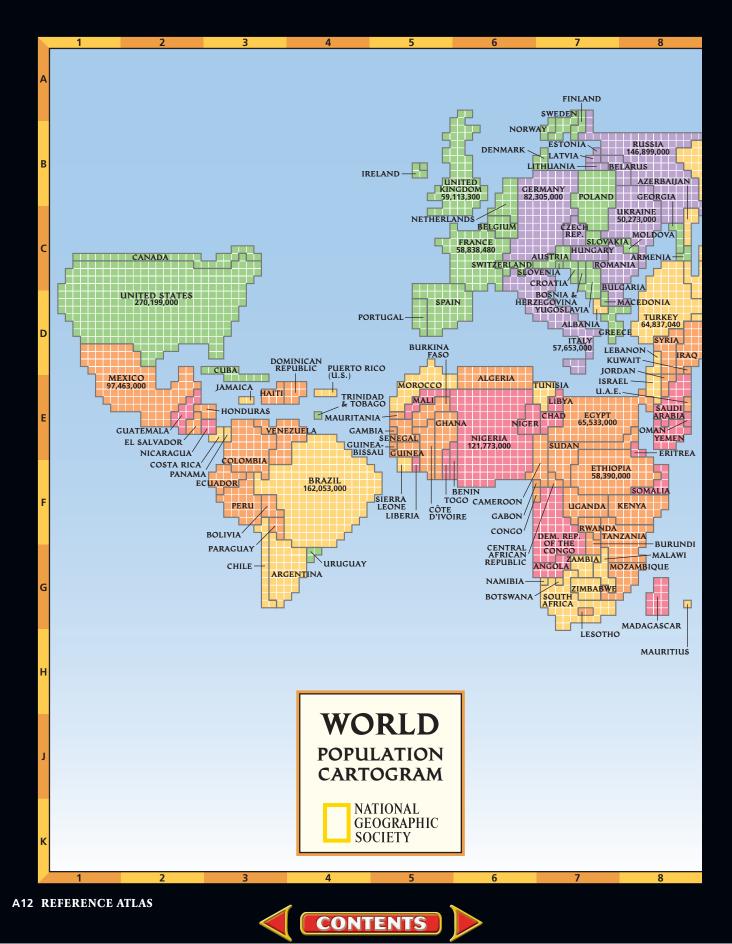














Planning Your Career

Whether you plan to attend college after high school or begin working immediately, now is a good time to start thinking about what you want to do when you finish your high school education.

Thinking About What You Want From

a Career Choosing a career depends on many factors, including your interests and skills, your level of education and training, and the opportunities available. To help you think about what kind of career you would like to pursue, use this checklist to identify skills, weaknesses, and interests.

Self-Assessment Checklist

- What are my interests?
- What are my strengths?
- What are my goals?
- Do I like working with people, or do I prefer working alone?
- Do I like working in an office, or do I prefer working outdoors?

Researching Job Opportunities Once

you identify your strengths, weaknesses, and interests, you will want to try to identify what kinds of jobs could make use of those interests and skills. Several sources can help you learn about different types of jobs. These government publications are particularly helpful:

- *The Occupational Outlook Handbook* provides detailed information on hundreds of occupations. Included are job duties, working conditions, levels and places of employment, education and training requirements, job trends, and average earnings.
- *The Dictionary of Occupational Titles* lists 20,000 different jobs and is a good source for finding out about jobs you never knew about. The *Dictionary* provides detailed explanations of

job responsibilities, but it does not provide information on education or training requirements.

• *The Guide for Occupational Exploration* focuses on career interests and indicates the kinds of jobs that match different interests. It also offers guidelines on how to prepare for a career and find a job in a particular field.

Other good sources of information are schools and libraries, which often have career resource centers, and the Internet, which has many useful Web sites. Many schools also have computerized guidance programs that you can use to find out about different careers.

Finding a Job Once you have identified the kind of job you would like, you need to find out what opportunities are available in your community. You can find out about jobs by

- talking to people you know, including your guidance counselor.
- checking the classified ads in your local newspaper.
- contacting an employment agency.
- using the Internet.

Applying Life Skills

Identify three fields that interest you. Use resources available to you to learn as much as you can about jobs in these fields. In particular, find out what educational requirements are necessary, what the projected future demand for these jobs is, and what kind of salaries these jobs offer. Prepare a one-page report of your findings.



Financing Your College Education

College costs have risen steadily in recent years. If you need financial aid, regardless of the reason, start researching for aid in your junior year or early in your senior year of high school. Check with your guidance counselor about federal aid and state, military, ethnic, and fraternal grants.

Financial Aid Financial aid comes in three basic forms: loans, which must be repaid; scholarships and grants, which need not be repaid; and jobs. Most financial-aid sponsors distribute their money through colleges. Therefore, contact the financial aid office of the college(s) of your choice. Because most colleges send out financial aid applications only upon request, you should obtain these forms early and then file them with your application for admission. Missing the appointed deadline will reduce your chances for aid.

Loans There are four major types of student loans.

- 1. The *National Direct Student Loan* is granted only to needy students. The funds come from the federal government, but individual colleges choose the students who receive them. The loan is interest-free while you are in school. After graduating, you have 10 years to repay the loan at low interest.
- 2. The *Government Guaranteed Student Loan* is made by financial institutions, and is guaranteed by the federal government to be repaid. While you are in school, the government pays the interest, which is generally 9 percent. After you graduate, you have 10 years to repay the loan.
- **3.** A *bank loan* requires you or your parents to begin repayment while you are still in college. Although interest rates vary on this type of loan, they generally are higher than the rates on government loans.
- **4.** A *special student loan* is one offered by colleges, civic and professional groups, and other organizations. The interest rates vary on these loans.

Scholarships and Grants Scholarships provide another source of financial aid and do not have to be repaid. In most cases, income plays no part in eligibility. Some available scholarships are *national, state, and college merit scholarships,* awarded on the basis of academic excellence, and *Reserve Officers' Training Corps scholarships,* awarded to students willing to spend four years in the armed forces after graduation. Grants also are available, but they generally are based on need. For those who qualify, *Pell Grants* can be used at any accredited college, vocational school, nursing school, and the like.

Work and Study The third basic kind of financial aid is in the form of a job. One is the *College Work-Study Program* sponsored by the federal government. To be eligible, you must be a full-time student who would not be able to afford school without the job.

If you are seeking financial aid for college, keep the following in mind:

- Start your investigation early.
- Apply for every scholarship or grant for which you may qualify.
- You can borrow from more than one program.

Applying Life Skills

- 1. If you need financial aid for college, when should you begin your search?
- 2. What are three forms of financial aid?
- 3. What kinds of scholarships are available?



Preparing a Resume

One of the most critical parts of finding a job is preparing a resume. A good resume provides a brief history of your accomplishments along with a description of your strengths and abilities. A prospective employer's decision to interview you often depends on his or her reaction to your resume.

Before You Begin Before writing your resume, conduct an inventory of your strengths and weaknesses by asking yourself questions such as:

- What kinds of skills and talents do I have?
- What is my work history?
- How much formal education have I had?
- What are my goals?
- What kind of work do I want?
- What salary would I be willing to accept?

Writing Your Resume When you have answered these questions, organize the entries on your resume.

- Begin with your name, address, and telephone number.
- Indicate the position or kind of position you are seeking.
- List all your relevant work experience, beginning with your most recent job. Include the dates of your employment, the names of the companies for which you have worked, and the positions you have held.
- List the schools you have attended. Include any special honors or awards you have received and any activities in which you have been or are involved.
- Provide at least three references, all of whom know you well enough to vouch for your abilities or strengths. Do not use relatives as references, and do not use more than two teachers.

Keep in mind that you may adjust the format of your resume to highlight the most relevant information.

Writing a Cover Letter When you send a resume, it should be accompanied by a cover letter. A cover letter identifies and explains anything you are sending to someone. It may be as short as two sentences or as long as several paragraphs. Follow these guidelines when you write your cover letter:

- State briefly what is enclosed, but include enough information to make the reader want to look at the attached resume.
- Mention why you are sending the resume.
- Indicate any response you are expecting or any future action you will be taking, such as a follow-up phone call.
- All cover letters should be typed on good quality paper.
- Address the person by name (instead of using "To Whom It May Concern").
- Sign each letter individually.

Applying Life Skills

Directions: View the Renssalaer Polytechnic Institute's *Preparing a Resume* Web page. Print a hard copy or read the article, and answer the following questions:

- 1. What is the purpose of a resume?
- What are the steps in preparing a resume?
 What type of information is included in a resume?
- 4. A cover letter should accompany the resume. Describe important items to include in this letter.



Preparing a Budget

	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Net Income												
Rent												
Auto												
Telephone												
Utilities												
Cable												
Food												
Clothing												
Entertainment												
Miscellaneous												

To increase your wealth, financial planners recommend that you control your expenditures to live within your means. You can accomplish this by making a **budget**—a plan that matches expenditures with income. Budgeting can help you manage your money better and prevent you from buying goods and services that you do not really need or cannot afford.

Organizing Your Information The first step in setting up a budget is to obtain a **spreadsheet**–a large sheet of paper with columns for weeks and months, and rows for different categories of expenditures. You can buy spreadsheets in an office supply store, make one of your own using pencil and paper, or use a computer software program designed for this purpose.

Next, decide whether you want to set up your budget on a weekly, monthly, or yearly basis. If you get paid every two weeks, you might want to set up an annual budget with 26 biweekly columns. If you get paid monthly, you might prefer to set up an annual budget with 12 monthly columns.

The first row of your budget should consist of the income you expect to have for each period. Be sure to record your **net income**—the income received after taxes have been taken out. The remainder of the rows should be used to list your expenditures. List your monthly expenditures, such as rent and utility bills. Then list miscellaneous expenditures, such as clothing or gifts. Because you do not know how many unexpected expenditures you will have, allow 5 to 10 percent of your net income for this category. Keep in mind that it is more efficient and sometimes easier to spread larger expenditures across time.

Keeping Track Monitor your budget to make sure that the amounts you have allotted for each expenditure are reasonable. If you find that a category does not reflect your actual spending, adjust it. One benefit of a budget is that it can show you where you need to increase or decrease your spending.

Applying Life Skills

- 1. Why is making a budget important?
- 2. What are the steps involved in making a budget?
- 3. What does it mean to monitor a budget?



Maintaining a Checking Account

Properly maintaining a checking account takes time and effort. Checking accounts generally are not free unless you are able to deposit—and not use—a minimum sum of money, which generally varies from \$500 to \$1,000. If you do not maintain the required minimum, you may have to pay a monthly fee, which can vary from one bank to another.



Comparing Terms Contact several banks to compare the terms of their checking accounts. After you've selected a bank, it will provide you with checks printed with your full name, current address, and telephone number. When you write checks, make all figures and amounts legible. Write the amount in the box on the extreme right and on the line on the left, using all the space available so that no one can change the amount. Be sure to date the checks correctly and sign them clearly and accurately. Immediately record in your checkbook the date the check was written, to whom it was written, and the amount for which it was written.

Balancing Your Checkbook You should balance your checkbook every month after receiving a statement from the bank. The statement will tell you which checks the bank has received and which deposits it has recorded. It will also tell you what the balance of your account is at the time the statement was issued. It is your responsibility to reconcile your account—make sure your balance agrees with the bank's balance. To reconcile your account, follow these steps:

- In your checkbook, mark each check entry listed on your bank statement with a checkmark to show that the check has been processed. As you do this, make sure the amount of each check recorded in your checkbook matches the amount on the statement.
- **2.** List the checks you wrote but that have not been processed. Total the amounts of these checks, then add the total to the balance you have written in your checkbook.
- **3.** Subtract any fees or charges indicated on the bank statement, such as a monthly service charge or a charge for new checks.
- **4.** Subtract any cash withdrawals you made from automatic teller machines (ATMs).
- 5. Compare this balance with the balance on your bank statement. If no mistakes were made, your balance should match the bank's. If the two balances do not match, look for mistakes. If you cannot clear up the error immediately, call the bank. The error may carry over to the next month and make balancing your checkbook even more difficult. If the balance gets too far out of line, a check may "bounce" (be returned for insufficient funds), which will cost you a penalty of \$10, \$20, or more. If a number of checks bounce, you might get a bad credit rating.

Applying Life Skills

- 1. Why is having a checking account convenient for many consumers?
- 2. How do you balance a checkbook?
- 3. What does it mean when a check bounces?

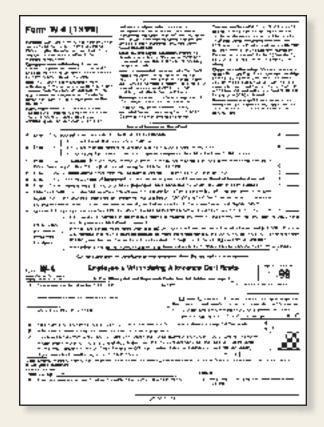
Filing an Income Tax Return

If you work, you probably have to file income tax forms with the federal government and, in some cases, with the state and/or city in which you live or work. The first step in filing income tax forms is to fill out a withholding statement for your employer. The federal withholding form, known as a W-4, asks for such information as your name and address, social security number, marital status, and any special allowances for disabilities or dependents. This form is shown below. The purpose of the W-4 is to help your employer determine how much money to withhold from each of your paychecks for income taxes. If you do not complete the form properly, your employer may not withhold enough money, and you will have to pay additional taxes at the end of the year.

Keeping Track Keep your pay stubs and the receipts for your expenditures together in a safe place. By law, every January your employer must provide you with a W-2 form, which summarizes your earnings for the year. You should check the information on your pay stubs against the information on the W-2. Some expenditures are tax deductible and will save you money by lowering your taxes. You must be able to prove, however, that you actually made the expenditures. Your proof is the receipts that you have saved.

Deductions Depending on the current tax laws, deductible expenses may include mortgage interest, medical bills and pharmaceutical expenses, child-care expenses, charitable contributions, such work-related expenses as union dues or uniforms, and uninsured losses from theft or natural disasters.

Tax Forms At the beginning of each year, the Internal Revenue Service sends out tax forms with detailed instructions on how to complete them. You can find the same forms at most post offices, public libraries, or banks. You may complete the forms yourself or have them completed by a



professional tax preparer. The fee for this service varies according to the complexity of your tax return and the amount of time it takes to prepare it. You generally must file the completed forms by midnight, April 15.

Applying Life Skills

- 1. What is a W-4 form? What is its purpose?
- 2. In preparing to file an income tax return, why are receipts important?
- 3. What are some examples of tax deductible expenses?

Borrowing Money

When you borrow money, you assume some risks. Being in debt can be dangerous and can even lead to personal bankruptcy. Before you decide to borrow money, keep the following factors in mind:

- 1. Do not borrow so much that if you become ill or lose your job, you no longer will be financially stable.
- **2.** Stagger your debts. Spread out your payments so they are not all due at the same time.

If you have a legitimate need to borrow money, you might consider asking a family member or a friend for a loan. Life insurance companies, savings institutions, credit unions, commercial banks, retail organizations, and finance companies also lend money. The many types of loans that are available to consumers include the following:

- **Installment sales credit,** the most common type of loan available, is generally taken out to buy merchandise such as a major appliance. The consumer makes an initial deposit on the goods and agrees to pay the balance, plus interest and service charges, in equal installments over a period of time.
- **Installment cash credit** is a direct cash loan often used for vacations, home improvements, or other personal expenses. No down payment is required, but the loan, plus interest and other charges, must be repaid in equal installments over a specified period of time.
- **Single lump-sum credit** is a direct cash loan requiring that the amount borrowed plus interest be repaid on a specified day.
- **Open-ended or revolving credit** allows consumers to purchase goods and services from merchants on credit, often without a down payment. In some cases, the consumer may repay the entire balance within 30 days without any interest charges. Monthly payments are required thereafter, with interest being computed on the outstanding balance.

• **Credit card loans** are loans made through the use of a bank credit card. The payment plans for this type of loan vary widely. In some cases, the consumer pays an annual fee for the use of the card. In other cases, the consumer may have to pay the balance in full at the end of the month or make monthly installment payments.

Costs of the Loan Regardless of the type of loan you obtain, you are entitled by law to receive information about the cost of credit. First, you are entitled to know the **finance charge**—the total dollar amount the credit will cost, including interest charged plus any carrying or service charge. Second, you are entitled to know the **annual percentage rate (APR)**—the interest cost of the loan on a yearly basis. Because repayment schedules differ, the APR is your guide to the true cost of the loan.

To obtain a loan, you must be a good credit risk. The lender checks on your character, your ability to repay the loan, and your capital assets. To determine your creditability, lenders often check with a **credit bureau**—an agency that collects credit information on consumers. If your **credit rating**—a record of debt and payment history—is not good or is in doubt, you probably will be denied credit. Thus, to maintain a good credit rating, you should pay debts on time.

Applying Life Skills

- 1. What do you think are some wrong reasons for borrowing?
- 2. What kinds of loans are available for consumers?
- **3.** What is a credit rating? Why is it important to maintain a good one?

Buying Insurance

Almost everyone needs some kind of insurance. Your parents, for example, may have several types of insurance: homeowners or renters insurance in case of theft, fire, or natural disaster; automobile insurance in case of accident or disability; and health insurance to cover their expenses if they are hospitalized.

How much and what kind of insurance you need depends on your lifestyle, your job, your age, and many other factors. Most people need enough insurance to protect their belongings and potential income, but not so much that paying for it strains their budget.

Types of Insurance There are six major types of insurance that you should consider:

- Whole life insurance, sometimes called ordinary life insurance, pays money to your survivors in the event of your death. It also carries a provision for savings against which you can borrow. You may collect the savings in one lump sum when you retire.
- **Term insurance** offers one type of coverage only-payment to your survivors in the event of your death.
- **Health insurance** covers medical and hospital bills if you become ill. Some health insurance policies also cover medication. A standard policy covers approximately 80 percent of medical expenses with some restrictions.
- Automobile insurance can provide several different kinds of coverage: Liability coverage protects you from claims and lawsuits if you cause an accident. Collision covers damage to your automobile if another vehicle hits it.
- **Homeowners insurance** covers a homeowner when his or her home or property has been damaged. Mortgage lenders generally insist that a homeowner carry this type of insurance until his or her mortgage has been paid in full.

• **Property liability** protects renters and homeowners against claims of negligence filed by others when an accident occurs on the renter's or homeowner's property.

Deciding exactly what insurance to buy can be confusing. Different insurance companies often offer the same type of insurance under separate names, which makes it difficult to know if the insurance companies are talking about the same kind of policy. In addition, the product–coverage– is invisible. The consumer cannot always tell how much the policy will pay until something happens for which he or she wants to collect payment on a claim.

When you are buying insurance, keep the following factors in mind:

- "Group" policies-offered to a group of people, generally through an employer or organization-tend to be less expensive than individual policies purchased from an insurance agent.
- 2. Always consult more than one agent before buying a policy. Describe your needs carefully to each agent, and ask each to recommend a policy and provide a written list of benefits and estimates of costs—usually in the form of a monthly premium. Inform each agent that you are consulting other agents and intend to compare costs and benefits before making any decision. Base your decision to buy a policy on the results of your comparison.

Applying Life Skills

- 1. Why do consumers need insurance?
- 2. What are six major types of insurance?
- **3.** What factors should you consider when buying insurance?

Analyzing Your Saving and Investing Options

Economists define saving as the nonuse of income for a period of time so that it can be used later. You may already be setting aside some of your income for some future use, such as continuing your education.

The Decision to Save Any saving that you do now may be only for purchases that require more money than you usually have at one time. When you are self-supporting and have more responsibilities, you will probably save for other reasons. For example, you may save to have money in case of emergencies, such as losing your job, and for your retirement. Most Americans who save do so for these reasons. Saving evens out a person's ability to spend throughout his or her lifetime.

Analyzing Your Options Generally, when people think of saving, they think of putting their money in a savings bank or a similar institution where it will earn interest. However, you have many options of places and ways to invest your savings. The most common places are commercial banks, savings and loan associations, savings banks, and credit unions. Before depositing money, investigate the different types of financial institutions in your area and the services they offer. Each institution usually has several types of savings plans, each paying a different interest rate. In comparison shopping for the best savings plan for you, you need to consider the trade-offs. Some savings plans allow immediate access to your money but pay a low rate of interest. Others pay higher interest and allow immediate use of your money, but require a large minimum balance.

Saving and Investing People usually distinguish between saving and investing. People have savings plans because they want a sure, fixed rate of interest. If people are willing to take a chance on earning a higher rate of return, however, they can invest their money in other ways, such as

stocks and bonds. Nevertheless, it is usually impossible to get a higher rate of return without taking some risk. Of course, the very nature of risk implies that some investment may yield a lower rate of interest, too.

Deciding How Much to Save and

Invest Saving involves a trade-off like every other activity. The more you save today, the more you can buy and consume a year from now, 10 years from now, or 30 years from now. You will, however, have less to spend today. Deciding what percentage of income to save depends on several factors:

- How much do you spend on your fixed expenses?
- What are your reasons for saving?
- How much interest can you earn on your savings and, therefore, how fast will they grow?
- How much income do you think you will be earning in the future?

If you expect to make a much higher income tomorrow, you have less reason to save a large percentage of today's income. In this case, it would be better to wait to start a large savings plan. It is a good idea, however, to have some sort of savings plan.

Applying Life Skills

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Write down a list of short-term saving goals, such as saving to buy a new bicycle. Make a list of typical ways in which you can save for such a purchase. Then make a list of long-term saving goals, such as saving for a house or retirement. Then, describe the different ways you can go about achieving your goals. What is the major difference between the two ways of saving?

Renting an Apartment

If you decide to rent an apartment, take time to choose wisely. Determine the best location in terms of getting back and forth from work or school and convenience for shopping. Decide if you want a furnished or an unfurnished apartment. Consider how much space you need to have adequate storage and be comfortable. Most importantly, determine how much rent you can afford to pay. Monthly rent plus related expenses should not be more than one week's take-home pay.

Carrying Out the Search To find an apartment, consult the classified section of newspapers, ask friends for recommendations, or hire a rental agent. Never agree to rent an apartment until you have personally seen it. The best time to do this is during an evening or on a weekend, which will reveal the surrounding noise level and what the neighbors are like. If possible, talk to some of the people in the apartment complex to learn the advantages and disadvantages of moving into the area.

Inspect the apartment and the surrounding area carefully for the following:

- **1.** Is the building well-built, well-maintained, and well-lit?
- **2.** Is the apartment the right size? Does it have a convenient floor plan, enough wall space for your furniture, and adequate lighting and electrical outlets?
- 3. How many windows are there? Do they open and close easily? Are there screens and storm windows?
- **4.** Is the apartment air-conditioned? Does it have its own heating and cooling controls?
- **5.** Are major appliances, such as a stove and refrigerator, in good working condition?
- 6. If there is carpeting, is it clean? Are there drapes, blinds, or shades for the windows?
- 7. Does the building have fire walls? Smoke alarms?
- **8.** Are laundry equipment and storage facilities available?

- **9.** Is there trash collection or disposal? Where? How often? By whom? Who pays for it?
- **10.** What kind of burglary protection is there?
- 11. What are the parking facilities?

The Lease After you have selected the apartment you want, you probably will have to sign a lease, a written agreement between you and the landlord that states the major terms of your occupancy. It generally includes a description of the rental property; the amount of rent to be paid and when it is due; how much deposit is required, what it covers, and under what conditions it may be forfeited; and how long the lease is in force and under what conditions it may be renewed. The lease also should include the terms for rent increases; who pays for specific utilities and repairs; what alterations you can make on the property; how much notice you must give before moving; whether you can rent the apartment to someone else; and whether children, pets, or roommates are allowed.

Before signing a lease, inspect the apartment with the landlord. Point out and write down any damage to walls, floors, appliances, and fixtures. Attach a copy of this list to the lease so that you cannot be held responsible for damage done before you moved into the apartment. Check to see if a security deposit is required in addition to the rental deposit. If it is, determine the amount and under what conditions it will be returned.

Applying Life Skills

- 1. What are some things to consider if you decide to rent an apartment?
- 2. When is the best time to look for an apartment?
- 3. What is a lease? What does it include?

ECONOMIC HANDEOOK

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Using Line Graphs

A graph, like a picture, may present information in a more concise way than words. Line graphs are drawings that compare numerical values. They often are used to compare changes over time or differences between places, groups of items, or other related events.

4.5

LEARNING THE SKILL

Follow these steps to learn how to understand and use line graphs. Then answer the questions below.

- 1. Read the title of the graph. This should tell you what to expect or look for.
- Note the information on the left side of the graph—the vertical axis. The information being compared usually appears on this axis.
 - **3.** Note the information along the bottom of the graph—the horizontal axis. Time often appears along this axis.

 Determine what the line(s) or curve(s) symbolizes.

> Select a point on the line, then note the date below this point on the horizontal axis and the quantity measured on the vertical axis.

Participation in High School Athletic Programs

4.0 3.5 Participants (in millions) Males 3.0 2.5 **Females** 2.0 1.5 1.0 .5 1970 1975 1980 1985 1990 1995 2000 Year 6. Analyze the movement of the line (whether increasing or decreasing over time) or com-

PRACTICING THE SKILL

- 1. About how many males participated in high school athletic programs in 1970? In 1997?
- **2.** About how many females participated in high school athletic programs in 1970? In 1997?

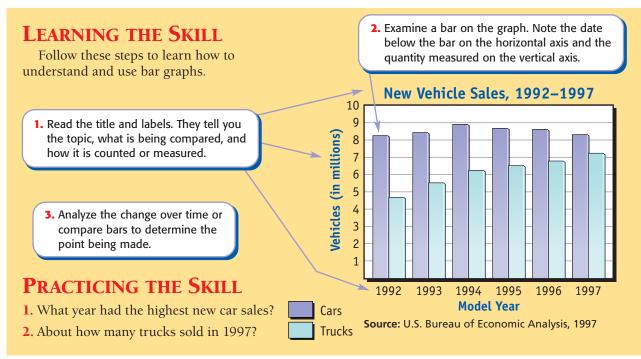
Applying the Skill to Economics

pare lines (if more than one are on the graph) to determine the point being made.

- 1. What trends are shown on the graph?
- **2.** How do you think these trends affected the manufacture and sale of sports-related products from the early to late 1990s?

ANALYZING VISUALS

Using Bar Graphs



Using Circle Graphs

LEARNING THE SKILL

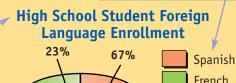
Follow these steps to learn how to understand and use circle graphs.

- 1. Examine the title to determine the subject.
 - **3.** Compare the relative sizes of the circle segments, thus analyzing the relationship of the parts to the whole.

PRACTICING THE SKILL

- **1.** What percent of foreign language students are studying German?
- **2.** What foreign language has the greatest student enrollment?

2. Read the legend to see what each segment represents.





Source: Statistical Abstract of the United States, 1998

Applying the Skill to Economics

- 1. Using the bar graph, what projection could you make about the future of new car sales?
- **2.** Based on the circle graph, which foreign language textbooks probably have the greatest sales volume?



30

Using Tables and Charts

Tables and charts are often used to show comparisons between similar categories of information. Tables usually compare statistical or numerical data. Tabular data is presented in columns and rows. Charts often show a wider variety of information than tables.

LEARNING THE SKILL

Follow these steps to learn how to understand and use tables. Then answer the questions below.

1. Read the title of the table to learn what content is being presented.

 Read the headings in the top row. They define the groups or categories of information to be compared.

> 3. Examine the labels in the left-hand column. They describe ranges or subgroups, and are often organized chronologically or alphabetically.

	Average Earnings of Full-Time Workers by Age and Education, 1996									
Age and Sex		All Workers	Some High School	High School Graduate	Four-Year College Degree					
	Male	\$42,077	\$25,283	\$32,521	\$63,127					
	18-24	18,856	15,478	18,779	27,257					
	25-34	33,055	19,910	27,349	44,355					
	35-44	45,840	26,116	35,138	70,035					
	45-54	51,705	34,527	39,178	72,461					
	55-64	49,916	32,926	38,032	71,070					
	Female	\$28,363	\$17,313	\$21,893	\$41,339					
	18-24	17,002	12,512	15,219	24,980					
1	25-34	26,119	16,826	19,526	34,132					
	35-44	30,879	18,261	23,134	46,923					
	45-54	31,222	18,007	23,833	45,012					
	55-64	27,629	19,039	23,179	41,342					

Source: U.S. Bureau of the Census

4. Note the source of the data. It may tell you about the reliability of the table.

5. Compare the data presented in the other columns. This is the body of the table.

PRACTICING THE SKILL

- **1.** What are the average earnings for 25- to 34-year-old women with college degrees?
- **2.** What are the average earnings for 18- to 24-year-old males without high school diplomas?

Applying the Skill to Economics

- 1. What age-related trends do you notice?
- **2.** What conclusions could you draw from this data about the economic effect of education on earnings?

ANALYZING VISUALS

Reading Maps

Maps are visual tools that show to scale the relative size and location of specific geographic areas. There are political maps, which show human-made boundaries. There are physical maps, which show physical features of an area. There are also special purpose maps that can show historical change, cultural features, population, climate, land use, or resources. Regardless of type, all maps use symbols to convey information.

LEARNING THE SKILL

Follow these steps to learn how to understand and use maps. Then answer the questions below.



PRACTICING THE SKILL

- **1.** What is the primary content shown on this map?
- **2.** Which region of the United States has the heaviest concentration of manufacturing areas?

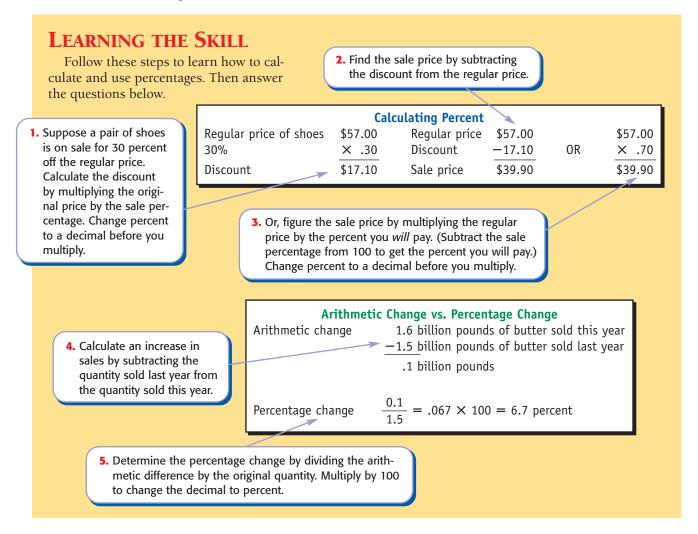
Applying the Skill to Economics

- **1.** How could this map be a helpful reference if you were planning to buy ranch land to raise cattle?
- **2.** What generalizations could you draw from this map about energy resources in the United States?



Understanding Percentages

If you shop, you probably like seeing the word *percent*. Stores often advertise sale prices as a percent of regular price. *Percent* means "parts per hundred." So, 30 percent means the same thing as 30/100 or 0.30. Expressing change as a percentage allows you to analyze the relative size of the change.



PRACTICING THE SKILL

- **1.** A store advertises a shirt at 25 percent off the original price of \$44. What is the sale price?
- **2.** What is the percentage increase in high school enrollment from 1,165 students to 1,320?

Applying the Skill to Economics

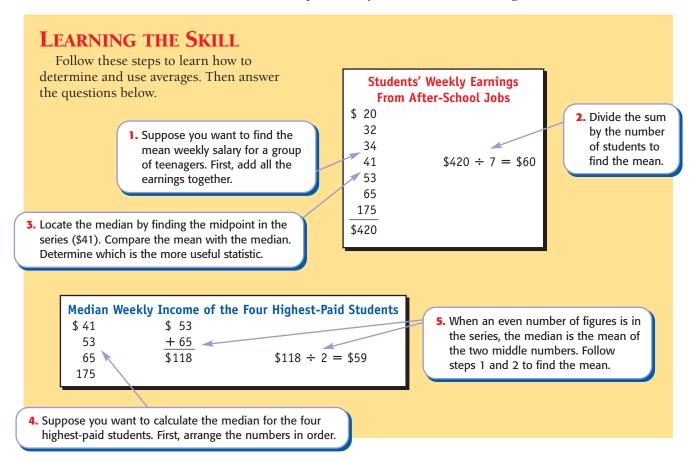
In 1997 about 32 percent of all music recordings sold were classified as rock music. That year about \$12 billion was spent on all recordings. How much was spent on rock music?



APPLYING MATH CONCEPTS AND METHODS

Determining Averages: Mean and Median

The most commonly used summary statistic is the average. There are two ways to compute the average: by using the mean or the median. The *mean* is the average of a series of items. When your teacher computes the class average, he or she is really computing the mean. Sometimes using the mean to interpret statistics is misleading, however. This is especially true if one or two numbers in the series are much higher or lower than the others. The median can be more accurate. The *median* is the midpoint in any series of numbers arranged in order.



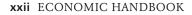
PRACTICING THE SKILL

- **1.** What is the median salary for all seven students?
- **2.** What is the median salary for the four lowest-paid students?

Applying the Skill to Economics

Av	verage	Monthly	Rent: 2	-Bedroom	Apartme	nt	
Atlant	a, GA	\$688		Dallas, TX		\$	718
Bostor	n, MA	\$906		San Jose,	CA S	\$1,	,139

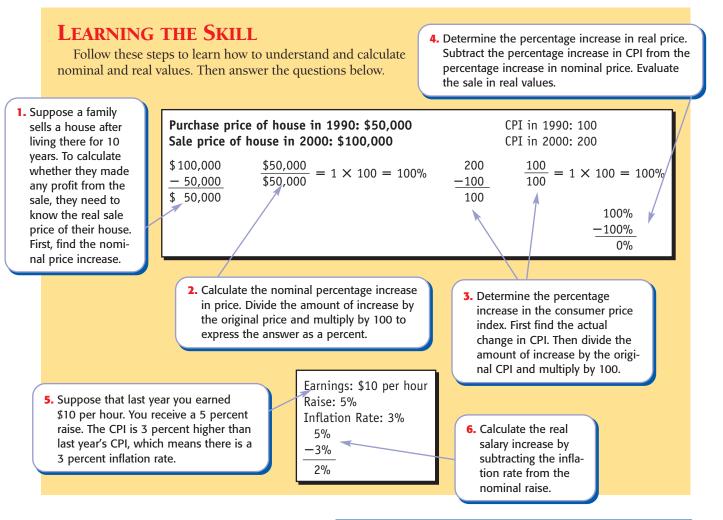
- 1. What is the mean monthly rent for these four cities?
- 2. What is the median monthly rent?





Understanding Nominal and Real Values

The rise in the economy's average price level is called inflation. To make comparisons between the prices of things in the past and those of today, you have to make the distinction between *nominal*, or current, and *real*, or adjusted for inflation, values. You can use the consumer price index (CPI), an index of average prices for consumer goods, to calculate real values. Then you can *accurately* compare changes in income and prices over time.



PRACTICING THE SKILL

- **1.** What was the nominal price increase on the sale of the house?
- **2.** How much money, in real dollars, was made on the house?
- **3.** How much was the real value of the raise?

Applying the Skill to Economics

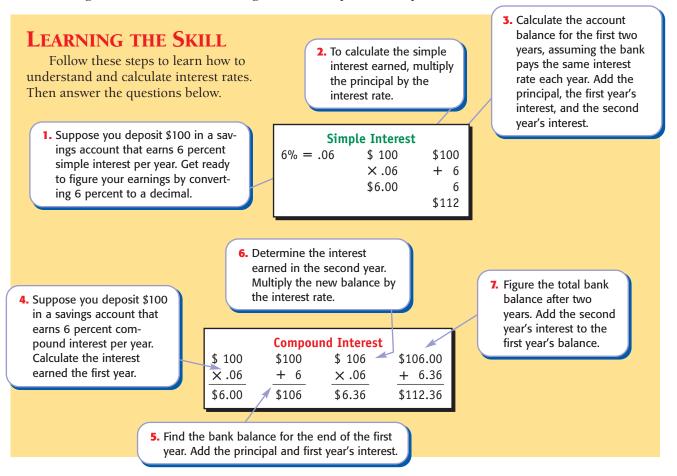
Between 1980 and 1997, the amount spent on advertising in the United States increased by 240 percent. How could you adjust this figure for inflation?



ANALYZING FINANCIAL INFORMATION

Understanding Interest Rates

When you deposit money in a savings account, the bank pays you interest for the use of your money. The amount of interest is expressed as a percent, such as 6 percent, for a time period, such as per year. Two types of interest exist: simple and compound. *Simple interest* is figured only on the principal, or original deposit, not on any interest earned. *Compound interest* is paid on the principal plus any interest that has been earned. Over time, there is a significant difference in earnings between simple and compound interest.



PRACTICING THE SKILL

- 1. What would be the difference in earnings between simple and compound interest if your initial balance was \$1,000 rather than \$100?
- 2. What would be the difference in earnings between simple and compound interest on your \$100 savings after five years?

Applying the Skill to Economics

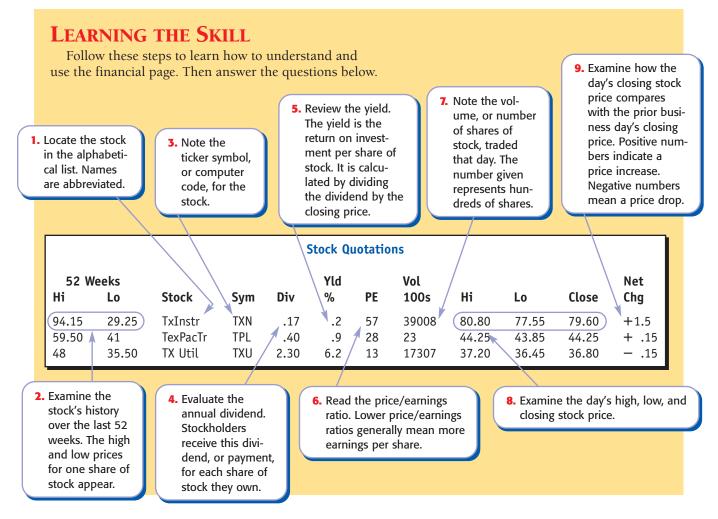
- **1.** What would be the impact of compounding interest on a daily basis rather than an annual basis?
- Banks often pay higher rates of interest on money you agree to keep in the bank for longer periods of time. Explain why this might be.



ANALYZING FINANCIAL INFORMATION

Reading the Financial Page

A stock market report alphabetically lists stocks and provides information about stock prices and trades. Every business day, shares of stock are bought and sold. At the beginning of each trading day, stocks open at the same prices they closed at the day before. Prices generally go up and down throughout the day as the conditions of supply and demand change. At the end of the day, each stock's closing price is recorded.



PRACTICING THE SKILL

- **1.** How many shares of Texas Instruments stock were traded on the day shown?
- **2.** What was the day's highest price for a share of Texas Utilities stock?
- **3.** Which stock had the greatest increase in closing price from the previous day?

Applying the Skill to Economics

If you had purchased 100 shares of Texas Instruments stock at its lowest 52-week price and sold it at this day's closing price, how much money would you earn?



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The data and forecasts for the graphs, tables, and charts in the Databank are based on information from Standard & Poor's. View the <u>epp.glencoe.com</u> Web site for data updates.

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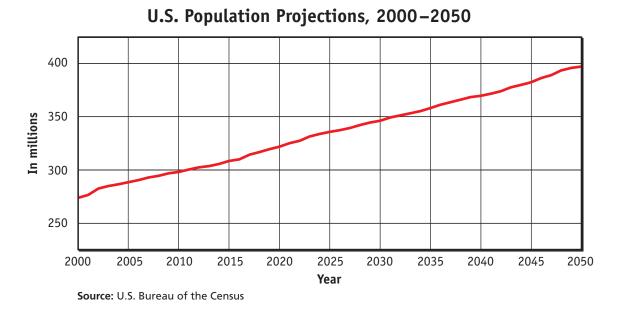


DATABANK

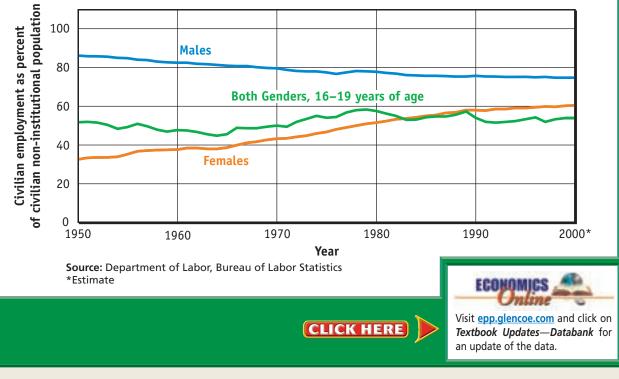
The American People

STANDARD

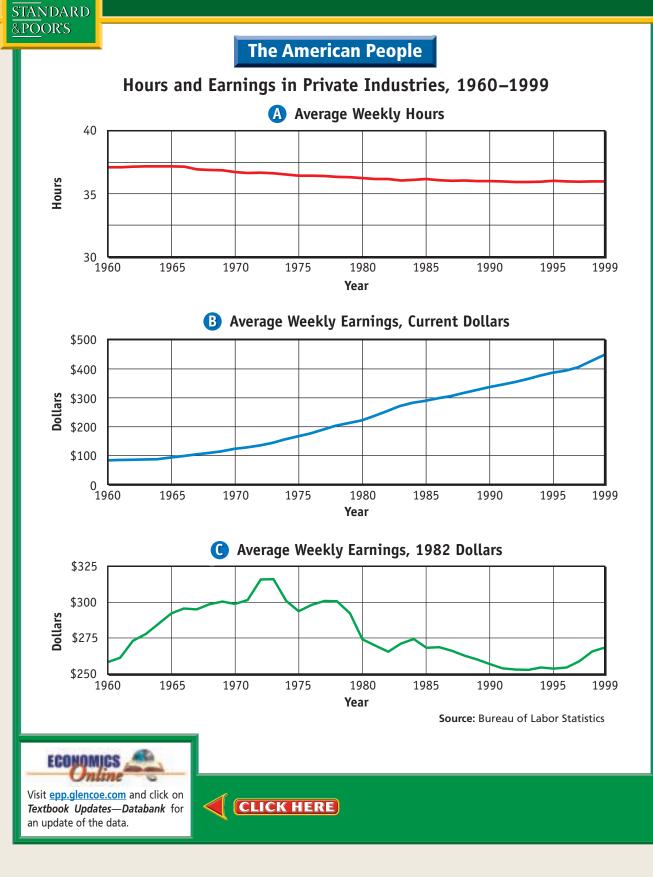
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Civilian Labor Force, 1950-2000

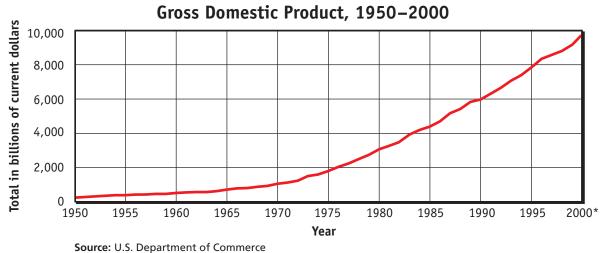




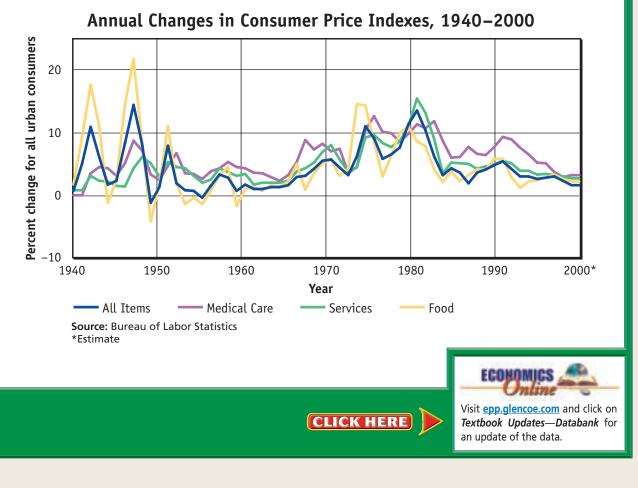


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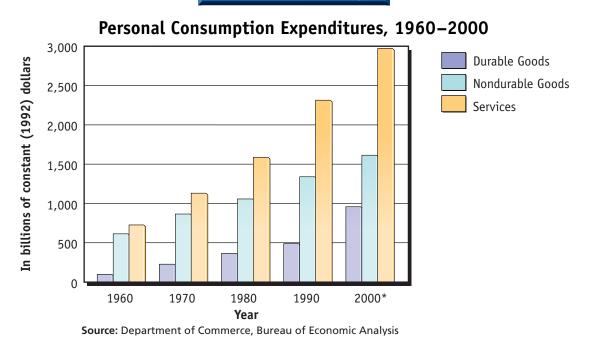


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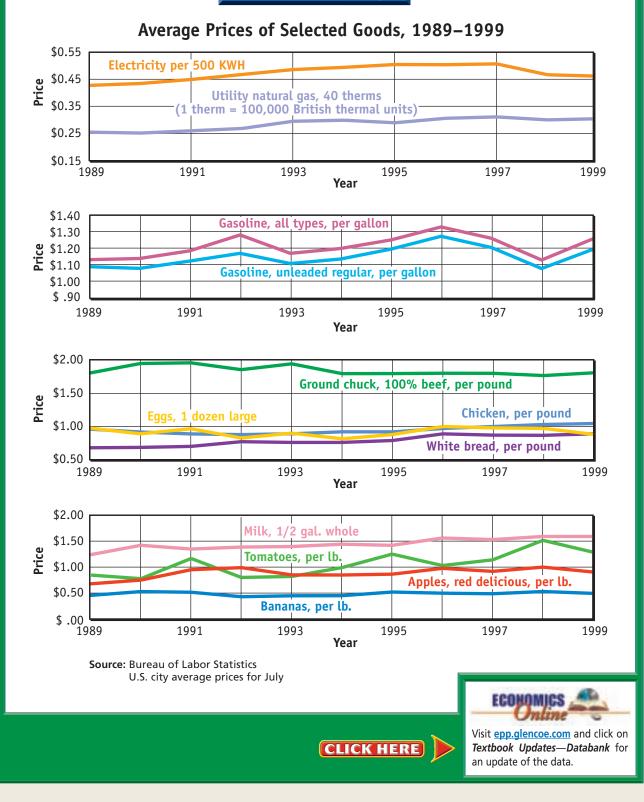


Personal Consumption Expenditures, Nondurable Goods, 1960-2000



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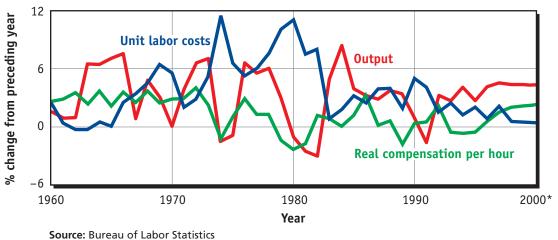
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Business Sector: Changes in Productivity & Related Data, 1960-2000



*Estimate

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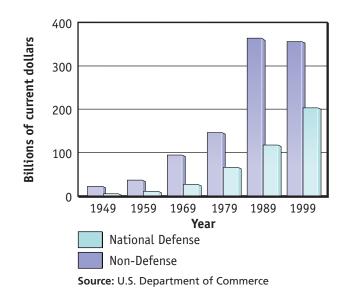


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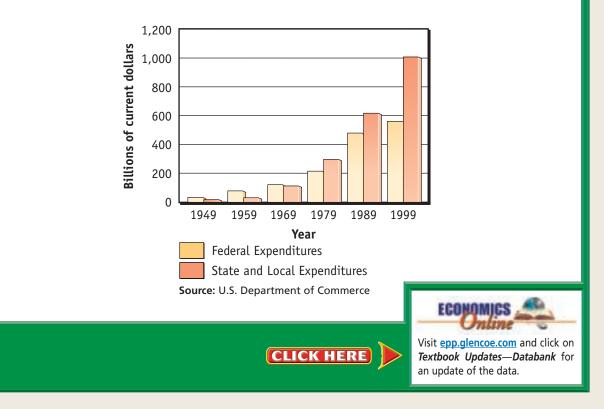
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The Government Sector

Federal Government Expenditures, 1949–1999

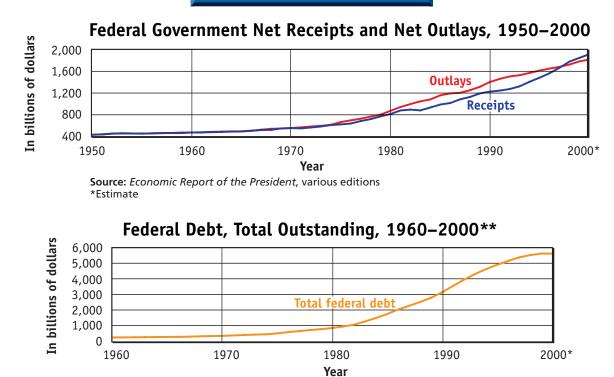


Total Government Expenditures, 1949–1999



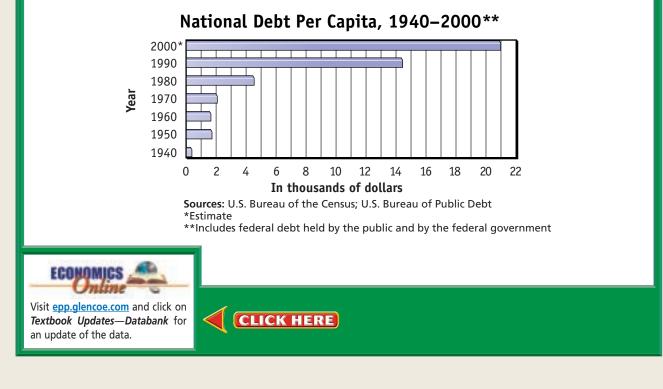


The Government Sector



Source: U.S. Bureau of the Census *Estimate

**Includes federal debt held by the public and by the federal government



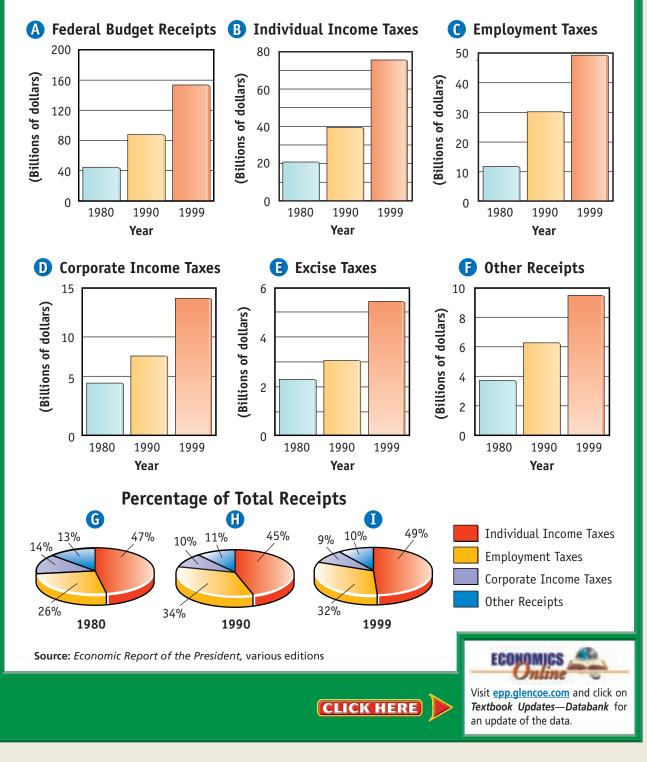
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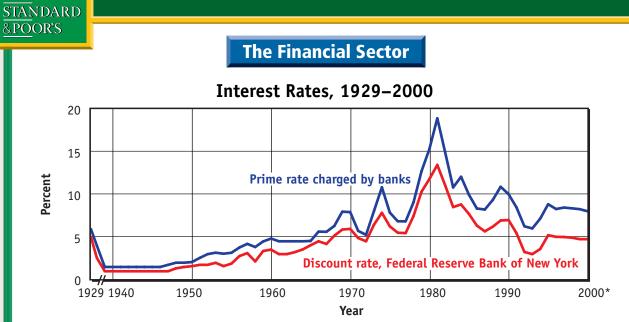
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Federal Budget Receipts, 1980–1999

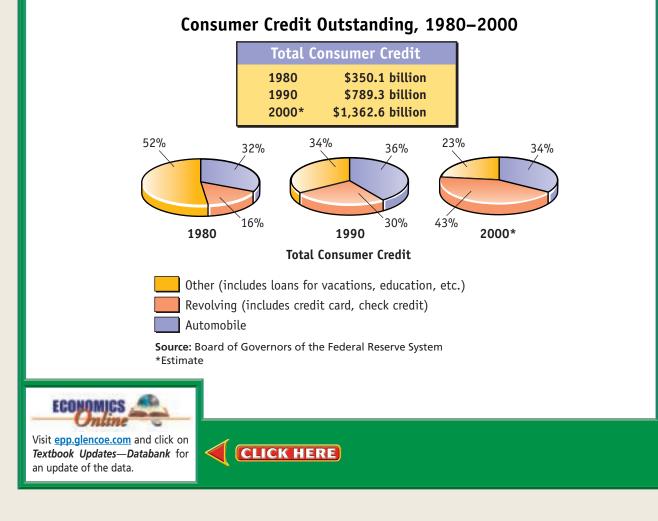




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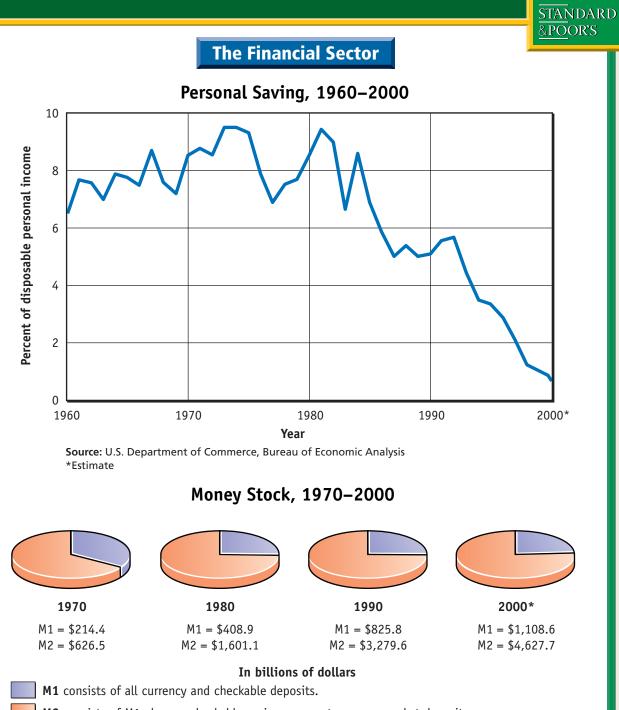


Sources: Economic Report of the President, 1999; The Financial Forecast Center *Estimate



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M2 consists of M1 plus noncheckable savings accounts, money market deposit accounts, time deposits, and money market mutual funds.

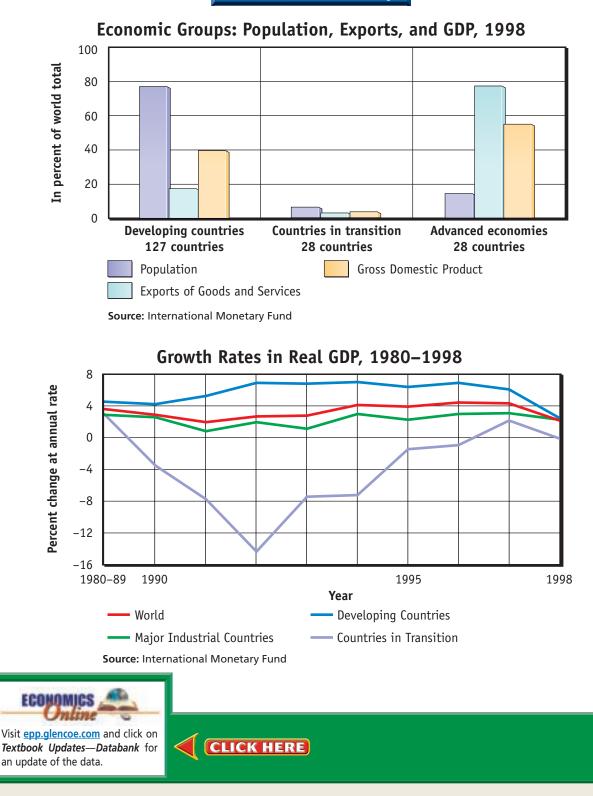
Source: Board of Governors of the Federal Reserve System *Estimate

ECONOMICS

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CLICK HERE



World Population by Age, 2000-2050 10 8 **Billions of people** Total: Total: Total: 6.07 billion 7.89 billion 9.29 billion 6 4 2 0 2000* 2025* 2050* Year 0-19 Years 20-64 Years 65 and Older Source: U.S. Bureau of the Census *Estimate

Countries Ranked by Population, 2000 and 2050

Country	Year 2 Population (in millions)	Dank	Year 2 Population (in millions)	Pank
China	1,256	1	1,322	(2)
India	1,017	2	1,706	(1)
United States	274	3	394	(3)
Indonesia	219	4	330	(5)
Brazil	173	5	228	(7)
Russia	145	6	121	(13)
Pakistan	141	7	260	(6)
Bangladesh	129	8	211	(8)
Japan	126	9	101	(18)
Nigeria	117	10	337	(4)
Mexico	102	11	167	(10)

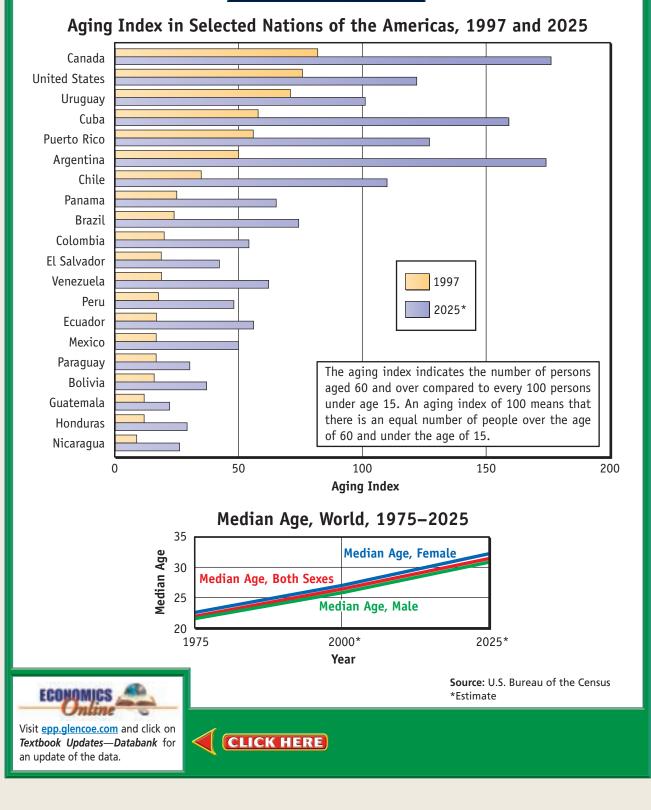
Source: U.S. Bureau of the Census *Estimate



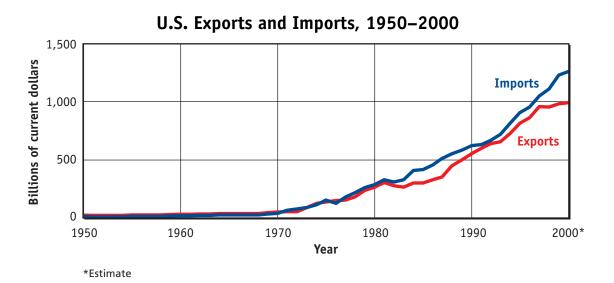
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STANDARD &POOR'S



Employment and Unemployment, Selected Economies



ability-to-pay principle of taxation





- **ability-to-pay principle of taxation** belief that taxes should be paid according to level of income regardless of benefits received (p. 228)
- **absolute advantage** country's ability to produce more of a given product than can another country (p. 469)
- **accelerated depreciation** schedule that spreads depreciation over fewer years than normal to generate larger tax reductions (p. 245)
- accelerator change in investment spending caused by a change in overall spending (p. 448)
- acid rain pollution in form of rainwater mixed with sulfur dioxide, a mild form of sulfuric acid (p. 554)

agency shop arrangement under which non-union members must pay union dues (p. 201)

aggregate demand the total quantity of goods and services demanded at different price levels (p. 444)

aggregate demand curve hypothetical curve showing different levels of real GDP that could be purchased at various price levels (p. 444)

aggregate supply the total value of goods and services that all firms would produce in a specific period of time at various price levels (p. 442)

aggregate supply curve hypothetical curve showing different levels of real GDP that could be produced at various price levels (p. 443)

alternative minimum tax personal income tax rate that applies to cases where taxes would otherwise fall below a certain level (p. 245)

appropriations bill legislation earmarking funds for certain purposes (p. 261)

aquifer underground water-bearing rock formation (p. 550)

arbitration see voluntary arbitration and/or compulsory arbitration (p. 202)

ASEAN group of ten Southeast Asian nations working to promote regional cooperation, economic growth, and trade (p. 535)

assets properties, possessions and claims on others; usually listed as entries on a balance sheet (p. 416)

- **automatic stabilizer** program that automatically provides benefits to offset a change in people's incomes; unemployment insurance, entitlement programs (p. 449)
- **automation** production with mechanical or other processes that reduces the need for workers (p. 386)
- **average tax rate** total taxes paid divided by the total taxable income (p. 229)



baby boom historically high birthrate years in the United States from 1946 to 1964 (p. 360)

- **balance of payments** difference between money paid to, and received from, other nations in trade; balance on current account includes goods and services, merchandise trade balance counts only goods (p. 478)
- **balance sheet** condensed statement showing assets, liabilities, and net worth of an economic unit (p. 416)
- **balanced budget** annual budget in which expenditures equal revenues (p. 273)

balanced budget amendment constitutional amendment requiring government to spend no more than it collects in taxes and other revenues, excluding borrowing (p. 267)

- **bank holiday** brief period during which all banks or depository institutions are closed to prevent bank runs (p. 301)
- **bankruptcy** court-granted permission to an individual or business to cease or delay payment on some or all debts for a limited amount of time (p. 62)
- **barter economy** moneyless economy that relies on trade or barter (p. 285)
- **base year** year serving as point of comparison for other years in a price index or other statistical measure (p. 218, 351)
- **bear market** period during which stock market prices move down for several months or years in a row (p. 332)

benefit principle of taxation belief that taxes should be paid according to benefits received regardless of income (p. 227)

- Better Business Bureau business-sponsored nonprofit organization providing information on local companies to consumers (p. 78)
- **bill consolidation loan** popular type of consumer loan used to pay off multiple existing loans (p. 315)
- black market market in which economic products are sold illegally (p. 505)
- **bond** formal contract to repay borrowed money and interest on the borrowed money at regular future intervals (p. 64)
- **boycott** protest in the form of a refusal to buy, including attempts to convince others to join (p. 195)
- **break-even point** production needed if the firm is to recover its costs; production level where total cost equals total revenue (p. 131)
- **bull market** period during which stock market prices move up for several months or years in a row (p. 332)
- **business cycle** systematic changes in real GDP marked by alternating periods of expansion and contraction (p. 375)
- **business fluctuation** changes in real GDP marked by alternating periods of expansion and contraction that occur on a less than systematic basis (p. 375)



call option contract giving investors the option to buy commodities, equities, or financial assets at a specific future date using a price agreed upon today (p. 333)
capital tools, equipment, and factories used in the production of goods and services; one of four factors of production (p. 7)



consumer price index

capital flight

capital flight legal or illegal export of a nation's currency and foreign exchange (p. 525)

capital gains profits from the sale of an asset held for 12 months (p. 246)

- **capital good** tool, equipment, or other manufactured good used to produce other goods and services; a factor of production (p. 12)
- **capital-intensive** production method requiring relatively large amounts of capital relative to labor (p. 510)
- **capital market** market in which financial capital is loaned and/or borrowed for more than one year (p. 325)

capitalism economic system in which private citizens own and use the factors of production in order to generate profits (p. 46, 492)

capital-to-labor ratio measure obtained by dividing the total capital stock by the labor force (p. 367)

cartel group of sellers or producers acting together to raise prices by restricting availability of a product; OPEC (p. 536)

cash flow total amount of new funds the business generates from operations; broadest measure of profits for a firm, includes both net income and non-cash charges (p. 69)

cease and desist order ruling requiring a company to stop an unfair business practice that reduces or limits competition (p. 179)

census complete count of population, including place of residence (p. 356)

center of population point where the country would balance if it were flat and everyone weighed the same (p. 357)

central bank bank that can lend to other banks in times of need, a "bankers' bank" (p. 301)

certificate of deposit receipt showing that an investor has made an interest-bearing loan to a financial institution (p. 314)

chamber of commerce nonprofit organization of local businesses whose purpose is to promote their interests (p. 78)

change in demand consumers demand different amounts at every price, causing the demand curve to shift to the left or the right (p. 96)

change in quantity demanded movement along the demand curve showing that a different quantity is purchased in response to a change in price (p. 95)

change in quantity supplied change in amount offered for sale in response to a price change; movement along the supply curve (p. 115)

change in supply different amounts offered for sale at each and every possible price in the market; shift of the supply curve (p. 116)

charter written government approval to establish a corporation; includes company name, address, purpose of business, number of shares of stock, and other features of the business (p. 63) **closed shop** illegal arrangement under which workers must join a union before they are hired (p. 200)

coins metallic forms of money such as pennies, nickels, dimes, and quarters (p. 413)

collateral property or other security used to guarantee repayment of a loan (p. 511)

collective bargaining process of negotiation between union and management representatives over pay, benefits, and job-related matters (p. 77)

collective farm small farms in the former Soviet Union owned by the state, but operated by families who shared in some of the profits (p. 498)

collectivization forced common ownership of factors of production; used in the former Soviet Union in agriculture and manufacturing under Stalin (p. 497)

collusion agreements, usually illegal, among producers to fix prices, limit output, or divide markets (p. 168)

command economy economic system characterized by a central authority that makes most of the major economic decisions (p. 35)

commercial bank depository institution that, until the mid-1970s, had the exclusive right to offer checking accounts (p. 303)

commodity money money that has an alternative use as a commodity; gunpowder, flour, corn (p. 287)

communism economic and political system in which factors of production are collectively owned and directed by the state; theoretically classless society in which everyone works for the common good (p. 493)

company union union organized, supported, and even financed by an employer (p. 195)

comparable worth doctrine stating that equal pay should be given for jobs of comparable difficulty (p. 215)

comparative advantage country's ability to produce a given product relatively more efficiently than another country; production at a lower opportunity cost (p. 470)

competition the struggle among sellers to attract consumers while lowering costs (p. 48)

complements products that increase the value of other products; products related in such a way that an increase in the price of one reduces the demand for both (p. 98)

conglomerate firm with four or more businesses making unrelated products, with no single business responsible for a majority of its sales (p. 71)

constant dollars dollar amounts or prices that have been adjusted for inflation; same as real dollars (p. 218)

consumer good good intended for final use by consumers rather than businesses (p. 12)

consumer price index index used to measure price changes for a market basket of frequently used consumer items (p. 352)

civilian labor force non-institutionalized part of the population, aged 16 and over, either working or looking for a job (p. 193)

consumer sovereignty

consumer sovereignty role of consumer as ruler of the market when determining the types of goods and services produced (p. 50)

cooperative nonprofit association performing some kind of economic activity for the benefit of its members (p. 76)

corporate income tax tax on corporate profits (p. 235) **corporation** form of business organization recognized

by law as a separate legal entity with all the rights and responsibilities of an individual, including the right to buy and sell property, enter into legal contracts, sue and be sued (p. 62)

cost-benefit analysis way of thinking that compares the cost of an action to its benefits (p. 24)

Council of Economic Advisers three-member group that devises strategies and advises the President of the United States on economic matters (p. 460)

- **coupon** stated interest on a corporate, municipal or government bond (p. 321)
- **craft union** labor union whose workers perform the same kind of work; same as trade union (p. 194)

credit union nonprofit service cooperative that accepts deposits, makes loans, and provides other financial services (p. 76, 303)

creditor person or institution to whom money is owed (p. 305)

creeping inflation relatively low rate of inflation, usually 1 to 3 percent annually (p. 390)

crowding-out effect higher than normal interest rates and diminished access to financial capital faced by private investors when government increases its borrowing in financial markets (p. 277)

crude birthrate number of live births per 1,000 people (p. 524)

currency paper component of the money supply, today consisting of Federal Reserve notes (p. 413)

current dollars dollar amounts or prices that are not adjusted for inflation (p. 218)

current GDP Gross Domestic Product measured in current prices, unadjusted for inflation (p. 353)

current yield bond's annual coupon interest divided by purchase price; measure of a bond's return (p. 321)

customs duty tax on imported products (p. 236)

customs union group of countries that have agreed to reduce trade barriers (p. 535)

cyclical unemployment unemployment directly related to swings in the business cycle (p. 386)



default the act of not repaying borrowed money (p. 525) **deficiency payment** cash payment making up the difference between the market price and the target price of an agricultural crop (p. 153)

disposable personal income

- **deficit spending** annual government spending in excess of taxes and other revenues (p. 272)
- **deflation** decrease in the general level of the prices of goods and services (p. 390)

demand combination of desire, ability, and willingness to buy a product (p. 89)

demand curve graph showing the quantity demanded at each and every possible price that might prevail in the market at a given time (p. 91)

demand deposit account (DDA) account whose funds can be removed by writing a check and without having to gain prior approval from the depository institution (p. 303)

demand elasticity measure of responsiveness relating change in quantity demanded (dependent variable) to a change in price (independent variable) (p. 101)

demand schedule listing showing the quantity demanded at all possible prices that might prevail in the market at a given time (p. 90)

demographer person who studies growth, density, and other characteristics of the population (p. 358)

dependency ratio ratio of children and elderly per 100 persons who are in the 18–64 working age bracket (p. 361)

depreciation gradual wear on capital goods during production (p. 69)

depression state of the economy with large numbers of unemployed, declining real incomes, overcapacity in manufacturing plants, general economic hardship (p. 376)

depression scrip currency issued by towns, chambers of commerce, and other civic bodies during the Great Depression of the 1930s (p. 377)

deregulation relaxation or removal of government regulations on business activities (p. 304)

developing country country whose average per capita income is only a fraction of that in more industrialized countries (p. 521)

diminishing marginal utility decreasing satisfaction or usefulness as additional units of a product are acquired (p. 93)

diminishing returns stage of production where output increases at a decreasing rate as more units of variable input are added (p. 125)

discomfort index unofficial statistic that is the sum of monthly inflation and the unemployment rate; same as misery index (p. 438)

discount rate interest rate that the Federal Reserve System charges on loans to the nation's financial institutions (p. 422)

discretionary spending spending for federal programs that must receive annual authorization (p. 260)

disposable personal income personal income less individual income taxes; total income available to the consumer sector after income taxes (p. 346)

distribution of income

- distribution of income way in which the nation's income is divided among families, individuals, or other designated groups (p. 258)
- **dividend** check paid to stockholders, usually quarterly, representing portion of corporate profits (p. 63)
- **division of labor** division of work into a number of separate tasks to be performed by different workers; same as specialization (p. 16)
- DJIA see Dow-Jones Industrial Average (p. 331)
- **double taxation** feature of taxation that allows stockholders' dividends to be taxed both as corporate profit and as personal income (p. 65)
- **Dow-Jones Industrial Average (DJIA)** statistical series of 30 representative stocks used to monitor price changes on the New York Stock Exchange (p. 332)

easy money policy monetary policy resulting in lower interest rates and greater access to credit; associated with an expansion of the money supply (p. 419)

- e-commerce electronic business or exchange conducted over the Internet (p. 129)
- **econometric model** macroeconomic model using algebraic equations to describe how the economy behaves and is expected to perform in the future (p. 379)
- **economic growth** sustained period during which a nation's total output of goods and services increases (p. 15)
- economic interdependence economic activities in one part of the country or world affect what happens elsewhere (p. 17)
- economic model set of assumptions in a table, graph, or equations used to describe or explain economic behavior (p. 143)
- **economic product** good or service that is useful, relatively scarce, and transferable to others (p. 12)

economic system organized way a society provides for the wants and needs of its people (p. 33)

economics social science dealing with the study of how people satisfy seemingly unlimited and competing wants with the careful use of scarce resources (p. 6)

economies of scale increasingly efficient use of personnel, plant, and equipment as a firm becomes larger (p. 170)

economy see economic system (p. 33)

Efficient Market Hypothesis (EMH) argument that stocks are always priced about right, and that bargains are hard to find because they are closely watched by so many investors (p. 329)

elastic type of elasticity where the percentage change in the independent variable (usually price) causes a more than proportionate change in the dependent variable (usually quantity demanded or supplied) (p. 102)

federal budget deficit

- **elasticity** a measure of responsiveness that tells us how a dependent variable such as quantity responds to a change in an independent variable such as price (p. 101)
- embargo prohibition on the export or import of a product (p. 546)
- entitlement program or benefit using established eligibility requirements to provide health, nutritional, or income supplements to individuals (p. 278)
- entrepreneur risk-taking individual in search of profits; one of four factors of production (p. 8)

equilibrium price price where quantity supplied equals quantity demanded; price that clears the market (p. 144)

- **equilibrium wage rate** wage rate leaving neither a surplus nor a shortage in the market (p. 207)
- equities stocks that represent ownership shares in corporations (p. 328)
- estate tax tax on the transfer of property when a person dies (p. 235)
- euro single currency of European Union (p. 535)
- **European Union** successor of the European Community established in 1993 by the Maastricht Treaty (p. 535)

excess reserves financial institution's cash, currency, and reserves not needed to back existing loans; potential source of new loans (p. 416)

- excise tax general revenue tax levied on the manufacture or sale of selected items (p. 235)
- **expansion** period of growth of real GDP; recovery from recession (p. 376)
- **exports** the goods and services that a nation produces and then sells to other nations (p. 467)
- **expropriation** government confiscation of private- or foreign-owned goods without compensation (p. 534)
- **external debt** borrowed money that a country owes to foreign countries and banks (p. 525)
- **externality** economic side effect that affects an uninvolved third party (p. 175)



fact-finding agreement between union and management to have a neutral third party collect facts about a dispute and present non-binding recommendations (p. 202)

- factor market market where productive resources are bought and sold (p. 14)
- **factors of production** productive resources that make up the four categories of land, capital, labor, and entrepreneurship (p. 7)
- **family** two or more persons living together that are related by blood, marriage, or adoption (p. 346)
- federal budget annual plan outlining proposed expenditures and anticipated revenues (p. 260)
- **federal budget deficit** excess of federal expenditures over tax and revenue collections (p. 261)

federal budget surplus

federal budget surplus federal budget that shows a positive balance after expenditures are subtracted from revenues (p. 261)

federal debt total amount of money the federal government has borrowed from others (p. 273)

Federal Reserve note currency issued by the Fed that eventually replaced all other types of federal currency (p. 301)

Federal Reserve System privately owned, publicly controlled, central bank of the United States (p. 301)

fertility rate number of births that 1,000 women are expected to undergo in their lifetime (p. 358)

fiat money money by government decree; has no alternative value or use as a commodity (p. 287)

FICA Federal Insurance Contributions Act; tax levied on employers and employees to support Social Security and medicare (p. 233)

finance company firm that makes loans directly to consumers and specializes in buying installment contracts from merchants who sell on credit (p. 315)

financial asset document that represents a claim on the income and property of the borrower; CDs, bonds, Treasury bills, mortgages (p. 314)

financial capital money used to buy the tools and equipment used in production (p. 7)

financial intermediary institution that channels savings to investors; banks, insurance companies, savings and loan associations, credit unions (p. 314)

financial system network of savers, investors, and financial institutions that work together to transfer savings to investment uses (p. 314)

fiscal policy use of government spending and revenue collection measures to influence the economy (p. 447)

fiscal year 12-month financial planning period that may not coincide with the calendar year; October 1 to September 30 for the federal government (p. 260)

Five-Year Plan comprehensive centralized economic plan used by the Soviet Union and China to coordinate development of agriculture and industry (p. 497)

fixed cost cost of production that does not change when output changes (p. 127)

fixed exchange rate system under which the value of currencies were fixed in relation to one another; the exchange rate system in effect until 1971 (p. 482)

fixed income income that does not increase even though prices go up (p. 42)

flat tax proportional tax on individual income after a specified threshold has been reached (p. 248)

flexible exchange rate system that relies on supply and demand to determine the value of one currency in terms of another; exchange rate system in effect since 1971, same as floating exchange rate (p. 483)

floating exchange rate see flexible exchange rate (p. 483) floor price see price floor (p. 152)

geographic monopoly

- **food stamps** government-issued coupons that can be exchanged for food (p. 397)
- **foreign exchange** foreign currencies used by countries to conduct international trade (p. 481)

foreign exchange rate price of one country's currency in terms of another currency (p. 482)

401(k) plan a tax-deferred investment and savings plan that acts as a personal pension fund for employees (p. 320)

fractional reserve system system requiring financial institutions to set aside a fraction of their deposits in the form of reserves (p. 415)

free enterprise economy in which competition is allowed to flourish with a minimum of government interference; term used to describe the American economy (p. 46)

free enterprise economy market economy in which privately owned businesses have the freedom to operate for a profit with limited government intervention; same as private enterprise economy (p. 24)

free-trade area group of countries that have agreed to reduce trade barriers among themselves, but lack a common tariff barrier for nonmembers (p. 535)

free trader individual who favors fewer or even no trade restrictions (p. 474)

frictional unemployment unemployment caused by workers changing jobs or waiting to go to new ones (p. 384)

fringe benefit benefit received by employees in addition to wages and salaries; includes paid vacations, sick leave, retirement, insurance (p. 57)

futures contracts to buy or sell commodities or financial assets at a specific future date, using a price agreed upon today (p. 333)

futures contract an agreement to buy or sell at a specific date in the future at a predetermined price (p. 333)

futures market market where futures contracts are bought and sold (p. 333)



galloping inflation relatively intense inflation, usually ranging from 100 to 300 percent annually (p. 390)

gasohol mixture of 90 percent unleaded gasoline and 10 percent grain alcohol (p. 549)

GDP gap difference between what the economy can and does produce; annual opportunity cost of unemployed resources (p. 438)

GDP in constant dollars Gross Domestic Product after adjustments for inflation; also called GDP in constant (chained) dollars; same as real GDP (p. 353)

general partnership see partnership (p. 60)

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geographic monopoly market situation where a firm has a monopoly because of its location or the small size of the market (p. 170)

gift tax

gift tax tax on donations of money or wealth that is paid by the donor (p. 235)

giveback wage, fringe benefit, or work rule given up when renegotiating a contract (p. 212)

glass ceiling seemingly invisible barrier hindering advancement of women and minorities in a male-dominated organization (p. 214)

glut substantial oversupply of a product (p. 553)

gold certificate paper currency backed by gold; issued in 1863 and popular until recalled in 1934 (p. 295)

gold standard monetary standard under which a country's currency is equivalent to, and can be exchanged for, a specified amount of gold (p. 296)

good tangible economic product that is useful, relatively scarce, transferable to others; used to satisfy wants and needs (p. 12)

Gosplan central planning authority in former Soviet Union that devised and directed Five-Year plans (p. 497)

government monopoly monopoly created and/or owned by the government (p. 170)

grant-in-aid transfer payment from one level of government to another not involving compensation (p. 257)

Great Depression greatest period of economic decline in United States history, lasting from approximately 1929 to 1939 (p. 196)

Great Leap Forward China's disastrous second five-year plan begun in 1958 that forced collectivization of agriculture and rapid industrialization (p. 506)

grievance procedure contractual provision outlining the way future disputes and grievance issues will be resolved (p. 202)

Gross Domestic Product (GDP) dollar value of all final goods, services, and structures produced within a country's national borders during a one-year period (p. 9, 341)

Gross National Product (GNP) total dollar value of all final goods, services, and structures produced in one year with labor and property supplied by a country's residents, regardless of where the production takes place; largest measure of a nation's income (p. 344)

growth triangle table showing the rates of growth of a statistical series between any two dates (p. 364)

horizontal merger combination of two or more firms producing the same kind of product (p. 71)

household basic unit of consumer sector consisting of all persons who occupy a house, apartment, or separate living quarters (p. 346)

human capital sum of peoples' skills, abilities, health, and motivation (p. 16)

hyperinflation abnormal inflation in excess of 500 percent per year; last stage of a monetary collapse (p. 390)

intergovernmental expenditures



- **imperfect competition** market structure where all conditions of pure competition are not met; monopolistic competition, oligopoly, and monopoly (p. 166)
- **implicit GDP price deflator** index used to measure price changes in Gross Domestic Product (p. 353)
- **imports** the goods and services that a nation buys from other nations (p. 468)

incidence of a tax final burden of a tax (p. 225)

income effect that portion of a change in quantity demanded caused by a change in a consumer's real income when the price of a product changes (p. 96)

income statement report showing a business's sales, expenses, and profits for a certain period, usually three months or a year (p. 68)

inconvertible fiat money standard fiat money that cannot be exchanged for gold or silver; Federal Reserve notes today (p. 297)

independent union labor union not affiliated with the AFL-CIO (p. 198)

index of leading indicators composite index of 11 economic series that move up and down in advance of changes in the overall economy; statistical series used to predict business cycle turning points (p. 380)

indexing adjustment of tax brackets to offset the effects of inflation (p. 233)

individual income tax tax levied on the wages, salaries, and other income of individuals (p. 226)

Individual Retirement Account (IRA) retirement account in the form of a long-term time deposit, with annual contributions of up to \$2,000 per year not taxed until withdrawn during retirement (p. 324)

industrial union labor union whose workers perform different kinds of work (p. 195)

inelastic type of elasticity where the percentage change in the independent variable (usually price) causes a less than proportionate change in the dependent variable (usually quantity demanded or supplied) (p. 102)

infant industries argument argument that new and emerging industries should be protected from foreign competition until they are strong enough to compete (p. 474)

inflation rise in the general level of prices (p. 42, 350)

infrastructure the highways, mass transit, communications, power, water, sewerage and other public goods needed to support a population (p. 510)

injunction court order issued to prevent a company or union from taking action during a labor dispute (p. 203)

interest payment made for the use of borrowed money; usually paid at periodic intervals for long-term bonds or loans (p. 64)

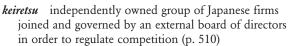
intergovernmental expenditures funds that one level of government transfers to another level for spending (p. 268)

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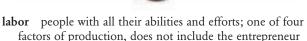
GLOSSARY A45

intergovernmental revenue

- **intergovernmental revenue** funds one level of government receives from another level of government (p. 238)
- intermediate products products directly excluded from GDP because they are components of other final products included in GDP; new tires and radios for use on new cars (p. 343)
- Internal Revenue Service (IRS) branch of Treasury Department that collects taxes (p. 232)
- International Bank for Reconstruction and Development see World Bank (p. 526)
- International Monetary Fund (IMF) international organization that offers advice and financial assistance to nations so that their currencies can compete in open markets (p. 526)
- **inventory** stock of goods held in reserve; includes finished goods waiting to be sold and raw materials to be used in production (p. 59)
- **investment tax credit** tax credit given for purchase of equipment (p. 245)



Keynesian economics government spending and taxation policies suggested by John Maynard Keynes to stimulate the economy; synonymous with fiscal policies or demandside economics (p. 448)



- (p. 8) labor mobility ability and willingness of labor to relocate,
- usually for higher wages (p. 209)
- **labor productivity** growth rate of total output per unit of labor input; measure of productive efficiency (p. 368)
- **labor union** organization that works for its members' interests concerning pay, working hours, health coverage, fringe benefits, other job related matters (p. 76)
- Laffer curve graph showing that lower tax rates will supposedly stimulate higher tax revenues (p. 452)
- **laissez-faire** philosophy that government should not interfere with business activity (p. 163)
- **land** natural resources or "gifts of nature" not created by human effort; one of four factors of production (p. 7)
- Law of Demand rule stating that more will be demanded at lower prices and less at higher prices; inverse relationship between price and quantity demanded (p. 91)
- **Law of Supply** rule stating that more will be offered for sale at high prices than at lower prices (p. 113)

Law of Variable Proportions rule stating that short-run output will change as one input is varied while others are held constant (p. 122)

marginal analysis

- **legal reserves** currency and deposits used to meet the reserve requirement (p. 415)
- **legal tender** fiat currency that must be accepted for payment by decree of government (p. 295)
- **liabilities** debts and obligations owed to others; usually listed as entries on a balance sheet (p. 416)
- **life expectancy** average remaining life span in years for persons who attain a given age (p. 358)
- **limited life** situation in which a firm legally ceases to exist when an owner dies, quits, or a new owner is added; applies to sole proprietorships and partnerships (p. 59)
- **limited partnership** form of partnership where one or more partners are not active in the daily running of the business, and whose liability for the partnership's debt is restricted to the amount invested in the business (p. 62)
- **line-item veto** power to cancel specific budget items without rejecting the entire budget (p. 278)
- **liquidity** potential for being readily convertible into cash or other financial assets (p. 417)
- **lockout** management refusal to let employees work until company demands are met (p. 195)
- **long run** production period long enough to change amount of variable and fixed inputs used in production (p. 122)
- **Lorenz curve** curve showing how much the actual distribution of income differs from an equal distribution (p. 394)
- **luxury good** good for which demand increases faster than income when income rises (p. 235)



- M1 money supply components conforming to money's role as medium of exchange; coins, currency, checks, other demand deposits, traveler's checks (p. 429)
- M2 money supply components conforming to money's role as a store of value; M1, savings deposits, time deposits (p. 430)
- **macroeconomic equilibrium** level of real GDP consistent with a given price level; intersection of aggregate supply and aggregate demand (p. 445)
- **macroeconomics** that part of economic theory dealing with the economy as a whole and decision making by large units such as governments and unions (p. 193)
- mandatory spending federal spending authorized by law that continues without the need for annual approvals of Congress (p. 260)
- **margin requirement** minimum deposits left with a stockbroker to be used as partial payment on other securities (p. 423)
- marginal analysis decision making that compares the extra cost of doing something to the extra benefits gained (p. 131)

multiplier

marginal cost

- **marginal cost** extra cost of producing one additional unit of production (p. 129)
- **marginal product** extra output due to the addition of one more unit of input (p. 124)
- marginal revenue extra revenue from the sale of one additional unit of output (p. 130)
- **marginal tax rate** tax rate that applies to the next dollar of taxable income (p. 229)
- **marginal utility** satisfaction or usefulness obtained from acquiring one more unit of a product (p. 93)

market meeting place or mechanism allowing buyers and sellers of an economic product to come together; may be local, regional, national, or global (p. 14)

- market basket representative collection of goods and services used to compile a price index (p. 351)
- market demand curve demand curve that shows the quantities demanded by everyone who is interested in purchasing a product (p. 91)
- **market economy** economic system in which supply, demand, and the price system help people make decisions and allocate resources; same as free enterprise economy (p. 36)
- **market equilibrium** condition of price stability where the quantity demanded equals the quantity supplied (p. 143)
- **market failure** market where any of the requirements for a competitive market–adequate competition, knowledge of prices and opportunities, mobility of resources, and competitive profits–are lacking (p. 174)
- **market structure** market classification according to number and size of firms, type of product, and type of competition (p. 164)
- **market supply curve** supply curve that shows the quantities offered at various prices by all firms that sell the product in a given market (p. 114)
- **maturity** life of a bond or length of time funds are borrowed (p. 321)
- **measure of value** one of the three functions of money that allows it to serve as a common denominator to measure value (p. 286)
- **mediation** process of resolving a dispute by bringing in a neutral third party (p. 202)
- **medicaid** joint federal-state medical insurance program for low-income people (p. 265)
- **medicare** federal health-care program for senior citizens, regardless of income (p. 233)
- **medium of exchange** money or other substance generally accepted in exchange; one of the three functions of money (p. 286)
- **member bank** bank belonging to the Federal Reserve System (p. 407)
- **member bank reserves** reserves kept by member banks at the Fed to satisfy reserve requirements (p. 418)
- **merger** combination of two or more business enterprises to form a single firm (p. 68)

- microeconomics branch of economic theory that deals with behavior and decision making by small units such as individuals and firms (p. 89)
- minimum wage lowest legal wage that can be paid to most workers (p. 152, 216)
- **misery index** unofficial statistic that is the sum of monthly inflation and the unemployment rate; same as discomfort index (p. 438)
- **mixed economy** see modified private enterprise economy (p. 51)
- **modified free enterprise economy** free enterprise system with some government involvement; same as modified private enterprise economy (p. 560)
- **modified private enterprise economy** free enterprise market economy where people carry on their economic affairs freely, but are subject to some government intervention and regulation (p. 51)
- **modified union shop** arrangement under which workers have the option to join a union after being hired (p. 201)
- **monetarism** school of thought stressing the importance of stable monetary growth to control inflation and stimulate long-term economic growth (p. 453)
- **monetary policy** actions by the Federal Reserve System to expand or contract the money supply in order to affect the cost and availability of credit (p. 415)
- **monetary standard** mechanism that keeps a money supply durable, portable, divisible, and stable in value; gold standard, silver standard, fiat money standard (p. 292)
- **monetary unit** standard unit of currency in a country's money supply; American dollar, British pound (p. 289)
- **monetize the debt** process of creating enough additional money to offset federal borrowing so that interest rates remain unchanged (p. 427)
- **money** anything that serves as a medium of exchange, a measure of value, and a store of value (p. 286)
- **money market** market in which financial capital is loaned and/or borrowed for one year or less (p. 325)
- **monopolistic competition** market structure having all conditions of pure competition except for identical products; form of imperfect competition (p. 166)
- **monopoly** market structure characterized by a single producer; form of imperfect competition (p. 169)
- **moral suasion** Federal Reserve System's use of persuasion to accomplish monetary policy; congressional testimony, press releases (p. 424)
- **most favored nation clause** trade law allowing a third country to enjoy the same tariff reductions the United States negotiates with another country (p. 477)
- **multinational** corporation producing and selling without regard to national boundaries and whose business activities are located in several different countries (p. 72)
- **multiplier** change in overall spending caused by a change in investment spending (p. 448)

municipal bond

municipal bond bond, often tax exempt, issued by state and local governments; known as munis (p. 323)

mutual fund company that sells stock in itself and uses the proceeds to buy stocks and bonds issued by other companies (p. 316)

mutual savings bank depositor-owned savings institution operated for the benefit of depositors (p. 303)



NAFTA see North American Free Trade Agreement (p. 479) national bank commercial bank chartered by the National Banking System; member of the Fed (p. 295)

National Bank note currency backed by government bonds, issued by national banks starting in 1863 and generally disappearing from circulation in the 1930s (p. 295)

national currency see National Bank note (p. 295)

- **national income** net national product less indirect business taxes; measure of a nation's income (p. 345)
- **national income accounting** system of accounts used to track the nation's production, consumption, savings, and income statistics (p. 341)

natural monopoly market where average costs are lowest when all output is produced by a single firm (p. 170)

need basic requirement for survival; includes food, clothing, and/or shelter (p. 6)

negative externality harmful side effect that affects an uninvolved third party; external cost (p. 175)

negative income tax tax system that would make cash payments in the form of tax refunds to individuals when their income falls below certain levels (p. 400)

Negotiable Order of Withdrawal (NOW) type of checking account that pays interest (p. 303)

net asset value (NAV) the market value of a mutual fund share determined by dividing the value of the fund by the number of shares issued (p. 316)

net exports of goods and services net expenditures by the output-expenditure model's foreign sector (p. 348)

net immigration net population change after accounting for those who leave as well as enter a country (p. 359)

net income measure of business profits determined by subtracting all expenses, including taxes, from revenues (p. 68)

net national product (NNP) Gross National Product minus depreciation charges for wear and tear on capital equipment; measure of net annual production generated with labor and property supplied by a country's citizens (p. 344)

net worth excess of assets over liabilities, usually listed as a separate summary on a balance sheet; measure of the value of a business (p. 416)

nominal GDP see current GDP (p. 353)

nonbank financial institution nondepository institution that channels savings to investors; finance companies, insurance companies, pension funds (p. 315) noncompeting labor grades broad groups of unskilled, semiskilled, skilled, and professional workers who do not compete with one another (p. 206)

nonmarket transaction economic activity not taking place in the market and, therefore, not included in GDP; services of homemakers, work around the home (p. 343)

nonprice competition competition involving the advertising of a product's appearance, quality, or design, rather than its price (p. 166)

nonprofit organization economic institution that operates like a business but does not seek financial gain; schools, churches, community service organizations (p. 75)

nonrecourse loan agricultural loan that carries neither a penalty nor further obligation to repay if not paid back (p. 153)

nonrenewable resource resource that cannot be replenished once it is used (p. 546)

North American Free Trade Agreement (NAFTA) agreement signed in 1993 to reduce tariffs between the United States, Canada, and Mexico (p. 479)

NOW Account see Negotiable Order of Withdrawal (p. 303)



oligopoly market structure in which a few large sellers dominate and have the ability to affect prices in the industry; form of imperfect competition (p. 167)

open market operations monetary policy in the form of U.S. treasury bills or bond sales and purchases, or both (p. 420)

opportunity cost cost of the next best alternative use of money, time, or resources when one choice is made rather than another (p. 20)

option contract giving investors an option to buy or sell commodities, equities, or financial assets at a specific future date using a price agreed upon today (p. 333)

options markets markets where options, including put options and call options, are traded (p. 333)

output-expenditure model macroeconomic model describing aggregate demand by the consumer, investment, government, and foreign sectors; GDP = C + I + G + F(p. 348)

overhead broad category of fixed costs that includes interest, rent, taxes, and executive salaries (p. 127)

over-the-counter market (OTC) electronic marketplace for securities not listed on organized exchanges such as the New York Stock Exchange (p. 331)



par value principal of a bond or total amount borrowed
 (p. 321)



productivity

paradox of value

paradox of value apparent contradiction between the high value of nonessentials and low value of essentials (p. 13)

partnership unincorporated business owned and operated by two or more people who share the profits and have unlimited liability for the debts and obligations of the firm; same as general partnership (p. 60)

part-time worker worker who regularly works fewer than 35 hours per week (p. 216)

"pay-as-you-go" provision requirement that new spending proposals or tax cuts must be offset by reductions elsewhere (p. 277)

payroll tax tax on wages and salaries to finance Social Security and medicare costs (p. 233)

payroll withholding statement document attached to a paycheck summarizing pay and deductions (p. 242)

payroll withholding system system that automatically deducts income taxes from paychecks on a regular basis (p. 232)

peak point in time when real GDP stops expanding and begins to decline (p. 376)

pension regular allowance for someone who has worked a certain number of years, reached a certain age, or who has suffered from an injury (p. 316)

pension fund fund that collects and invests income until payments are made to eligible recipients (p. 316)

per capita per person basis; total divided by population (p. 255)

perestroika fundamental restructuring of the Soviet economy; policy introduced by Gorbachev (p. 499)

perfect competition market structure characterized by a large number of well-informed independent buyers and sellers who exchange identical products (p. 164)

personal income total amount of income going to the consumer sector before individual income taxes are paid (p. 345)

picket demonstration before a place of business to protest a company's actions (p. 195)

piecework compensation system that pays workers for units produced, rather than hours worked (p. 498)

pollution contamination of air, water, or soil by the discharge of a poisonous or noxious substance (p. 554)

pollution permit federal permit allowing a public utility to release pollutants into the air; a form of pollution control (p. 556)

population density number of people per square mile of land area (p. 536)

population pyramid diagram showing the breakdown of population by age and sex (p. 360)

portfolio diversification strategy of holding several investments to protect against risk (p. 329)

positive externality beneficial side effect that affects an uninvolved third party (p. 176)

premium monthly, quarterly, semiannual, or annual price paid for an insurance policy (p. 315)

price ceiling maximum legal price that can be charged for a product (p. 151)

price discrimination illegal practice of charging customers different prices for the same product (p. 179)

price-fixing agreement, usually illegal, by firms to charge a uniform price for a product (p. 168)

price floor lowest legal price that can be charged for a product (p. 152)

price index statistical series used to measure changes in the price level over time (p. 351)

price level relative magnitude of prices at a given point in time as measured by a price index (p. 389)

primary market market in which only the original issuer will repurchase a financial asset; government savings bonds, IRAs, small CDs (p. 326)

prime rate best or lowest interest rate commercial banks charge their customers (p. 427)

primitive equilibrium first stage of economic development during which the economy is static (p. 528)

principal amount borrowed when getting a loan or issuing a bond (p. 64)

private enterprise economy see free enterprise economy (p. 24)

private property rights fundamental feature of capitalism, which allows individuals to own and control their possessions as they wish; includes both tangible and intangible property (p. 47)

private sector that part of the economy made up of private individuals and businesses (p. 256)

privatization conversion of state-owned factories and other property to private ownership (p. 502)

producer price index index used to measure prices received by domestic producers; formerly called the wholesale price index (p. 352)

product differentiation real or imagined differences between competing products in the same industry (p. 166)

product market market where goods and services are
 offered for sale (p. 14)

production process of creating goods and services with the combined use of land, capital, labor, and entrepreneurship (p. 8)

production function graphic portrayal showing how a change in the amount of a single variable input affects total output (p. 123)

production possibilities frontier diagram representing maximum combinations of goods and/or services an economy can produce when all productive resources are fully employed (p. 21)

CONTENTS

productivity degree to which productive resources are used efficiently; normally refers to labor, but can apply to all factors of production (p. 15)

price monetary value of a product as established by supply and demand (p. 137)

professional association

- professional association nonprofit organization of professional or specialized workers seeking to improve working conditions, skill levels, and public perceptions of its profession (p. 77)
- **professional labor** workers with a high level of professional and managerial skills (p. 206)
- profit extent to which persons or organizations are better
 off at the end of a period than they were at the beginning;
 usually measured in dollars (p. 48)
- profit-maximizing quantity of output level of production where marginal cost is equal to marginal revenue (p. 131)
- **profit motive** driving force that encourages people and organizations to improve their material well-being; characteristic of capitalism and free enterprise (p. 48)
- **progressive tax** tax where percentage of income paid in tax rises as level of income rises (p. 229)
- **property tax** tax on tangible and intangible possessions such as real estate, buildings, furniture, stocks, bonds, and bank accounts (p. 241)
- **proportional tax** tax in which percentage of income paid in tax is the same regardless of the level of income (p. 229)
- proprietorship see sole proprietorship (p. 57)
- **protectionist** person who would protect domestic producers with tariffs, quotas, and other trade barriers (p. 474)
- **protective tariff** tax on an imported product designed to protect less efficient domestic producers (p. 472)
- **public disclosure** requirement forcing a business to reveal information about its products or its operations to the public (p. 181)
- **public good** economic product that is consumed collectively; highways, national defense, police and fire protection (p. 176)
- **public sector** that part of the economy made up of the local, state, and federal governments (p. 255)
- **public utility** company providing essential services such as water and electricity to consumers, usually subject to some government regulations (p. 79)
- **put option** contract giving investors the option to sell commodities, equities, or financial assets at a specific future date using a price agreed upon today (p. 333)



- **quantity supplied** amount offered for sale at a given price; point on the supply curve (p. 115)
- **quantity theory of money** hypothesis that the supply of money directly affects the price level over the long run (p. 427)
- **quota** limit on the amount of a good that can be allowed into a country (p. 472)



- ration coupon certificate allowing holder to receive a given amount of a rationed product (p. 139)
- rationing system of allocating goods and services without prices (p. 139)
- raw materials unprocessed natural resources used in production (p. 123)
- real dollars see constant dollars (p. 218)
- real estate investment trust (REIT) company organized to make loans to homebuilders (p. 316)
- real GDP Gross Domestic Product after adjustments for inflation; same as GDP in constant dollars (p. 353)
- real GDP per capita Gross Domestic Product adjusted for inflation and divided by the total population; total dollar amount of all final output produced for every person in the country after compensating for inflation (p. 363)
- **real rate of interest** the market rate of interest minus the rate of inflation (p. 428)
- rebate partial refund of the original price of a product (p. 140)
- recession decline in real GDP lasting at least two quarters or more (p. 376)
- regressive tax tax where percentage of income paid in tax goes down as income rises (p. 229)
- **Regulation Z** provision extending truth-in-lending disclosures to consumers (p. 411)
- **renewable resources** natural resources that can be replenished for future use (p. 366)
- **reserve requirement** formula used to compute the amount of a depository institution's required reserves (p. 415)
- revenue tariff tax placed on imported goods to raise revenue (p. 473)
- right-to-work law state law making it illegal to require a worker to join a union (p. 197)
- risk situation in which the outcome is not certain, but the probabilities can be estimated (p. 318)
- **Roth IRA** individual retirement account in which contributions are made after taxes so that no taxes are taken out at maturity (p. 325)
- run on the bank sudden rush by depositors to withdraw all deposited funds, generally in anticipation of bank failure or closure (p. 301)
- rural population those persons not living in urban areas (p. 357)



S&P 500 see Standard & Poor's 500 (p. 332)

- sales tax general state or city tax levied on a product at the time of sale (p. 226)
- saving absence of spending that frees resources for use in other activities or investments (p. 313)



savings

- savings the dollars that become available for investors to use when others save (p. 313)
- savings account interest-bearing deposit not requiring prior notice before making a withdrawal (p. 417)
- savings and loan association (S&L) depository institution that historically invested the majority of its funds in home mortgages (p. 303)
- savings bank publicly-held depository institution that competes with other banks for customer deposits (p. 303)
- savings bond low-denomination, non-transferable bond issued by the federal government, usually through payrollsavings plans (p. 323)
- **scarcity** fundamental economic problem facing all societies that results from a combination of scarce resources and people's virtually unlimited wants (p. 5)
- seasonal unemployment unemployment caused by annual changes in the weather or other conditions that prevail at certain times of the year (p. 386)
- seat membership in a stock exchange such as the New York Stock Exchange (p. 330)
- secondary market market in which all financial assets can be sold to someone other than the original issuer; corporate bonds, government bonds (p. 326)
- **secondhand sales** sales of used goods; category of activity not included in GDP computation (p. 343)
- securities exchange physical place where buyers and sellers meet to exchange securities (p. 329)
- seizure temporary government takeover of a company to keep it running during a labor-management dispute (p. 203)
- selective credit controls rules pertaining to loans for specific commodities or purchases such as margin requirements for common stock (p. 424)
- semiskilled labor workers who can operate machines requiring a minimum amount of training (p. 206)
- seniority length of time a person has been on a job (p. 208)
- service work or labor performed for someone; economic product that includes haircuts, home repairs, forms of entertainment (p. 13)
- set-aside contract guaranteed contract or portion thereof reserved for a targeted, usually minority, group (p. 215)
- share draft account checking account offered by a credit union (p. 303)
- shareholder see stockholder (p. 63)
- **short run** production period so short that only variable inputs can be changed (p. 122)
- **shortage** situation where quantity supplied is less than quantity demanded at a given price (p. 144)
- signaling theory theory that employers are willing to pay more for people with certificates, diplomas, degrees, and other indicators of superior ability (p. 208)
- silver certificate paper currency backed by, and redeemable for, silver from 1886 to 1968 (p. 295)

- sin tax relatively high tax designed to raise revenue and discourage consumption of a socially undesirable product (p. 224)
- skilled labor workers who can operate complex equipment and require little supervision (p. 206)
- **Social Security** federal program of disability and retirement benefits that covers most working people (p. 42)
- **socialism** economic system in which government owns some factors of production and has a role in determining what and how goods are produced (p. 492)
- **soft loan** loan that may never be paid back; usually involves loan to developing countries (p. 535)
- **sole proprietorship** unincorporated business owned and run by a single person who has rights to all profits and unlimited liability for all debts of the firm; most common form of business organization in the United States (p. 57)
- **Solidarity** independent Polish labor union founded in 1980 by Lech Walesa (p. 504)
- **specialization** assignment of tasks so that each worker performs fewer functions more frequently; same as division of labor (p. 16)
- **specie** money in the form of gold or silver coins (p. 288)
- spending cap limits on annual discretionary spending (p. 278)
- **spot market** market in which a transaction is made immediately at the prevailing price (p. 332)
- stages of production phases of production-increasing, decreasing, and negative returns (p. 125)
- stagflation combination of stagnant economic growth and inflation (p. 437)
- Standard & Poor's 500 (S&P 500) statistical series of 500 stocks used to monitor prices on the NYSE, American Stock Exchange, and OTC market (p. 332)
- standard of living quality of life based on ownership of necessities and luxuries that make life easier (p. 24, 365)
- state bank bank that receives its charter from the state in which it operates (p. 293)
- state farm large farms owned and operated by the state in the former Soviet Union (p. 497)
- stock certificate of ownership in a corporation; common or preferred stock (p. 63)
- stock certificate see stock (p. 63)

- stockbroker person who buys or sells securities for investors (p. 329)
- **stockholder** person who owns a share or shares of stock in a corporation; same as shareholders (p. 63)
- **store of value** one of the three functions of money allowing people to preserve value for future use (p. 286)
- storming Soviet practice of rushing production at month's end to fulfill quotas, often resulting in production of shoddy goods (p. 498)
- strike union organized work stoppage designed to gain concessions from an employer (p. 195)

structural employment

structural unemployment unemployment caused by a fundamental change in the economy that reduces the demand for some workers (p. 385)

structures category in the national income and product accounts that includes residential structures, apartments, and commercial buildings (p. 341)

subsidy government payment to encourage or protect a certain economic activity (p. 117)

subsistence state in which a society produces barely enough to support itself (p. 546)

substitutes competing products that can be used in place of one another; products related in such a way that an increase in the price of one increases the demand for the other (p. 98)

substitution effect that portion of a change in quantity demanded due to a change in the relative price of the product (p. 96)

supply schedule of quantities offered for sale at all possible prices in a market (p. 113)

supply curve graphical representation of the quantities produced at each and every possible price in the market (p. 114)

supply elasticity responsiveness of quantity supplied to a change in price (p. 118)

supply schedule tabular listing showing the quantities produced or offered for sale at each and every possible price in the market (p. 114)

supply-side economics economic policies designed to increase aggregate supply or shift the aggregate supply curve to the right (p. 451)

surcharge additional tax or charge added to other charges already in place (p. 245)

surplus situation where quantity supplied is greater than quantity demanded at a given price (p. 144)



takeoff third stage of economic development during which barriers of primitive equilibrium are overcome (p. 528)

target price agricultural floor price set by the government to stabilize farm incomes (p. 153)

tariff tax placed on an imported product (p. 472)

tax assessor person who examines and values property for tax purposes (p. 241)

tax base incomes and properties that are potentially subject to tax by local, state, or federal governments (p. 366)

tax-exempt income from a bond or other investment not subject to tax by federal or state governments (p. 323)

tax loophole exception or oversight in the tax law allowing taxpayer to avoid taxes (p. 226)

tax return annual report filed with local, state, or federal government detailing income earned and taxes owed (p. 232)

technological monopoly market situation where a firm has a monopoly because it owns or controls a manufacturing method, process, or other scientific advance (p. 170)

Treasury note

technological unemployment unemployment caused by technological developments or automation that make some worker's skills obsolete (p. 386)

theory of negotiated wages explanation of wage rates based on the bargaining strength of organized labor (p. 208)

theory of production theory dealing with the relationship between the factors of production and the output of goods and services (p. 122)

thrift institution savings & loan associations, mutual savings banks, and other depository institutions historically catering to savers (p. 303)

tight money policy monetary policy resulting in higher interest rates and restricted access to credit; associated with a contraction of the money supply (p. 419)

time deposit interest-bearing deposit requiring prior notice before a withdrawal can be made, even though the requirement may not always be enforced (p. 417)

total cost variable plus fixed cost; all costs associated with production (p. 128)

total product total output or production by a firm (p. 123)

total revenue total receipts; price of goods sold times quantity sold (p. 130)

- trade deficit balance of payments outcome when spending on imports exceeds revenues received from exports (p. 484)
- trade-offs alternatives that must be given up when one is chosen rather than another (p. 19)

trade surplus situation occurring when the value of a
nation's exports exceeds the value of its imports (p. 484)
trade union see craft union (p. 195)

rade union see craft union (p. 195)

trade-weighted value of the dollar index showing strength of the United States dollar against a market basket of other foreign currencies (p. 484)

traditional economy economic system in which the allocation of scarce resources and other economic activity is the result of ritual, habit, or custom (p. 34)

traditional theory of wage determination explanation of wage rates relying on theory of supply and demand (p. 207)

transfer payment payment for which the government receives neither goods nor services in return (p. 257)

transparency making business dealings more visible to everyone, especially government regulators (p. 512)

Treasury bill short-term United States government obligation with a maturity of one year or under in denominations of \$10,000 (p. 324)

Treasury bond United States government bond with maturity of 10 to 30 years (p. 324)

Treasury coin note paper currency printed from 1890 to 1893, redeemable in both gold and silver (p. 296)

Treasury note United States government obligation with a maturity of 2 to 10 years (p. 324)

trend line

- **trend line** growth path the economy would follow if it were not interrupted by alternating periods of recession and recovery (p. 376)
- trough point in time when real GDP stops declining and begins to expand (p. 376)
- trust illegal combination of corporations or companies organized to hinder competition (p. 178)
- trust fund special account used to hold revenues designated for a specific expenditure such as Social Security, medicare, or highways (p. 275)
- **two-tier wage system** wage scale paying newer workers a lower wage than others already on the job (p. 212)



- **underground economy** unreported legal and illegal activities that do not show up in GDP statistics (p. 343)
- **unemployed** state of working for less than one hour per week for pay or profit in a non-family owned business, while being available and having made an effort to find a job during the past month (p. 382)
- **unemployment insurance** government program providing payments to the unemployed; an automatic stabilizer (p. 449)
- **unemployment rate** ratio of unemployed individuals divided by total number of persons in the civilian labor force, expressed as a percentage (p. 383)
- union shop arrangement under which workers must join a union after being hired (p. 201)
- **unit elastic** elasticity where a change in the independent variable (usually price) generates a proportional change of the dependent variable (quantity demanded or supplied) (p. 103)
- **United States note** paper currency with no backing, first printed by the United States government in 1862 to finance the Civil War (p. 295)
- **unlimited liability** requirement that an owner is personally and fully responsible for all losses and debts of a business; applies to proprietorships, general partnerships (p. 58)
- **unrelated individual** person living alone or with nonrelatives even though that person may have relatives living elsewhere (p. 346)

unskilled labor workers not trained to operate specialized machines and equipment (p. 205)

urban population those persons living in incorporated cities, towns, and villages with 2,500 or more inhabitants (p. 357)

- **user fee** fee paid for the use of good or service; form of a benefit tax (p. 236)
- **utility** ability or capacity of a good or service to be useful and give satisfaction to someone (p. 13)



- value worth of a good or service as determined by the market (p. 13)
- value-added tax tax on the value added at every stage of the production process (p. 246)
- variable cost production cost that varies as output changes; labor, energy, raw materials (p. 128)
- vertical merger combination of firms involved in different steps of manufacturing or marketing (p. 71)
- voluntary arbitration see arbitration (p. 202)
- voluntary exchange act of buyers and sellers freely and willingly engaging in market transactions; characteristic of capitalism and free enterprise (p. 47)



- wage-price controls policies and regulations making it illegal for firms to give raises or raise prices (p. 454)
- wage rate prevailing pay scale for work performed in a given area or region (p. 207)
- want way of expressing or communicating a need; a broader classification than needs (p. 6)
- wealth sum of tangible economic goods that are scarce, useful, and transferable from one person to another; excludes services (p. 14)
- welfare government or private agency programs that provide general economic and social assistance to needy individuals (p. 397)
- wholesale price index see producer price index (p. 352)
- workfare program requiring welfare recipients to provide labor in exchange for benefits (p. 398)
- **World Bank** international agency that makes loans to developing countries; formally the International Bank for Reconstruction and Development (p. 526)
- World Trade Organization (WTO) international agency that administers trade agreements, settles trade disputes between governments, organizes trade negotiations, and provides technical assistance and training for developing countries (p. 477)



zero population growth condition in which the average number of births and deaths balance so that population size is unchanged (p. 524)



Reading for Information

Think about your textbook as a tool that helps you learn more about the world around you. It is an example of nonfiction writing—it describes real-life events, people, ideas, and places. Here is a menu of reading strategies that will help you become a better textbook reader. As you come to passages in your textbook that you don't understand, refer to these reading strategies for help.

BEFORE YOU READ

Set a Purpose

- Why are you reading the textbook?
- How does the subject relate to your life?
- How might you be able to use what you learn in your own life?

Preview

- Read the chapter title to find what the topic will be.
- Read the subtitles to see what you will learn about the topic.
- Skim the photos, charts, graphs, or maps. How do they support the topic?
- Look for vocabulary words that are boldfaced. How are they defined?

Draw From Your Own Background

• What have you read or heard about concerning new information on the topic?

- How is the new information different from what you already know?
- How will the information that you already know help you under information?

AS YOU READ

Question

- What is the main idea?
- How do the photos, charts, graphs, and maps support the main idea?

Connect

- Think about people, places, and events in your own life. Are there any similarities with those in your textbook?
- Can you relate the textbook information to other areas of your life?

Predict

- Predict events or outcomes by using clues and information that you already know.
- Change your predictions as you read and gather new information.

Visualize

- Pay careful attention to details and descriptions.
- Create graphic organizers to show relationships that you find in the information.

LOOK FOR CLUES AS YOU READ

Comparison-and-Contrast Sentences:

Look for clue words and phrases that signal comparison, such as *similarly, just as, both, in common, also,* and *too.*

Look for clue words and phrases that signal contrast, such as *on the other hand, in contrast to, however, different, instead of, rather than, but,* and *unlike.*

• Cause-and-Effect Sentences:

888888

Look for clue words and phrases such as *because, as a result, therefore, that is why, since, so, for this reason,* and *consequently.*

• Chronological Sentences:

Look for clue words and phrases such as *after, before, first, next, last, during, finally, earlier, later, since,* and *then.*

VAFTER YOU READ

Summarize

- Describe the main idea and how the details support it.
- Use your own words to explain what you have read.

Assess

- What was the main idea?
- Did the text clearly support the main idea?
- Did you learn anything new from the material?
- Can you use this new information in other school subjects or at home?
- What other sources could you use to find more information about the topic?

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ability and income inequality

The following abbreviations are used in the index: *crt* = cartoon; *fig* = figure, chart, graph; *m* = map; *p* = photograph; *q* = quote



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