# Economic Resources and Systems

#### **Learning Objectives**

After completing this chapter, you'll be able to:

- 1. Define scarcity.
- 2. List the four factors of production.
- 3. Identify the differences between market and command economies.
- 4. Explain why most countries prefer a mixed economy.

#### Why It's Important

Understanding economic resources and systems is essential to lessening economic problems.

#### **Key Words**

scarcity factors of production natural resources human resources capital resources entrepreneurial resources economics market economy demand supply equilibrium price command economy mixed economy

# BusinessWeek Feature Story

#### Poland—Goods Runneth Over

Poland Is an Inspiration for the Rest of Europe. For a newcomer, it was quite a scene. Merchants, artisans, and even bankers lined the streets to offer their products at a fair in Warsaw's Old Town on a recent Sunday afternoon. As a band played Louis Armstrong's

"Wonderful World" and other tunes, prosperous-looking Poles shopped for private pension funds as well as locally made goods ranging from candies to cosmetics. What a change from a decade ago when voters ended communist rule by supporting Solidarity candidates in Poland's first competitive elections. Within months, communism had collapsed across Eastern Europe.

Source: Excerpted with permission from "Poland: A Beacon for the Rest of Europe," Business Week Online, June 21, 1999.

#### An Extension Activity

Research the brainchild behind the theories of the Communist movement. Then find out which Soviet leader modified it and lead the Revolution of October 1917.



The Full Story

To learn more about Poland, visit the Introduction to Business Web site at www.introbus.glencoe.com, and click on BusinessWeek Feature Story, Chapter 2.

#### What Is Economics?

You're gearing up for a weekend trip to the boardwalk with your friends. You take out your in-line skates from the back of your closet. Just by looking at the scratches and dust on them you suppose they need a wheel rotation. Unfortunately, you don't have the parts to do it. You also don't know how to switch the wheels yourself, and you don't have enough money to get it done. You have a shortage of resources. Just as individuals have to deal with a shortage of resources, so do societies.

#### **Factors of Production**

A society might not have enough oil, doctors, or technology to satisfy the wants and needs of its people. This shortage of resources is called scarcity. A basic economic problem for any society is how to manage its resources. Figure 2.1 illustrates how your choices between wants and needs influence your economic situation. You can identify factors of production as being all of the components necessary to produce a society's goods and services, such as the wheat that grows in the ground, the tractor that harvests it, and the labor that turns it into flour. You can differentiate four types of economic resources.

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#### YOUR ECONOMIC REALITY AT A GLANCE

The average American spends \$7 a day on food. People spend less than half of that money on home-cooked meals. On a separate piece of paper, re-create this table below. Insert a check mark in the appropriate square based upon your eating experiences in one week.

How do your choices influence your economic situation?

Fast-food restaurant	Home-cooked meal	Eat at a friend's house

#### **Natural Resources**

The raw materials found in nature are called natural resources. Natural resources become factors of production when used to produce goods. The trees used to make paper and the fish harvested for food are factors of production. Natural resources are often basic elements that can be combined in various ways to create goods. Even synthetic or artificially produced materials are made by combining or changing natural resources. For example, nylon is a synthetic material derived from coal, water, and air.

The economy of many countries is based on its natural resources. For example, the economy of Saudi Arabia depends on its oil production. Many Latin American countries rely on their coffee crops. Other countries, such as Japan, have few natural resources and must get them from somewhere else.

Some resources, like wheat and cattle, are *renewable*. They can be reproduced. Other resources are limited, or *nonrenewable*, like coal, iron, and oil. The amount of natural resources available to a society has a direct effect on its economy.

#### **Human Resources**

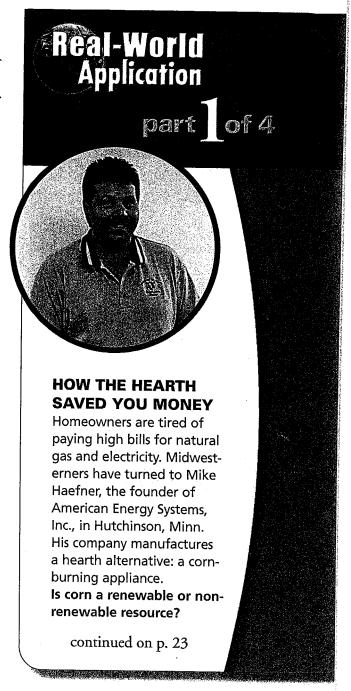
To produce goods and provide services requires the work of many people. The knowledge, efforts, and skills people bring to their work are called **human resources**, or labor. Teachers, coal miners, bank managers, and farmworkers are all human resources. Whether you're a cashier or a news anchor, you're a human resource. Human resources are needed for everything from drilling oil out of the ground to selling gasoline at a service station.

Labor can be skilled or unskilled, physical or intellectual. Workers employed in the same types of jobs often belong to organizations, such as labor unions. Labor unions were created because workers believed that big

businesses weren't treating them fairly. Labor unions negotiate with management for better pay, hours, and working conditions in a process called *collective bargaining*. Traditionally, union membership has been strongest in the manufacturing sector, such as in steel, automobiles, and tires.

#### Capital Resources

Another factor of production is capital resources. Capital resources are not the same as capital, or money. **Capital resources** are the things used to produce goods and services, like buildings, materials, and equipment. They include delivery trucks, supermarkets, cash registers, and medical supplies. A Deere & Company tractor that a farmer uses to



harvest wheat is a capital resource. The headquarters of IBM is a capital resource. If you're a writer or an accountant, the computer you use is a capital resource.

Another aspect of capital resources is the factors of distribution used to get a good to market. Some of these factors are a country's roads, rails, ports, airports, and even the climate of an area.

#### **Entrepreneurial Resources**

To meet the changing wants and needs of people requires entrepreneurial resources. Entrepreneurs recognize the need for new goods and services. They improve on ways to use resources, or create and produce new ones. Henry Ford perfected the factory assembly line method of mass production. Computer industry pioneers William Hewlett and David Packard developed the programmable scientific calculator.

A key to dealing with scarcity is to develop new resources and technologies. For example, researchers at Pioneer Hi-Bred and DuPont are developing and improving insect resistant corn to protect against corn rootworm, which is a costly expense to farmers.

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#### Fast Review

- 1. What is scarcity?
- 2. What are the four factors of production?
- 3. What are some examples of capital resources?

#### **Making Decisions About Production**

The problem of scarcity forces societies to answer some basic economic questions. No society has enough productive resources available to produce everything people want. Every society must, therefore, make choices.

#### **Basic Economic Questions**

Rules and regulations determine choices. You can summarize how economic decisions are made by thinking about the three economic questions society needs to answer: What should be produced? How should it be produced? Who should share in what is produced?

What Should Be Produced? Every country must decide how to use its resources to meet the needs of its people. It has to determine what to produce and how much to produce. The resources used for one purpose can't also be used for something else. For example, a piece of land could be used to grow wheat or corn. It could also be used as the site of a factory, a housing development, or a park. However, the land can only be used for one of these things at a time. Deciding to use it for one purpose means giving up the opportunity to use it for something else.

#### Consider This..

### **Blood Is Thicker** Than Oil

Occidental Petroleum Corp. is exploring for oil in Colombia. However, the U'wa people oppose oil exploration on the land they have lived on for thousands of years. For them, oil is the "blood of Mother Earth." The problem is more complex because the Colombian government supports the oil production, which will bring development to the country.

#### **ANALYZE**

Who has the right to the land—the U'wa people, the corporation, or the Colombian government?

How Should It Be Produced? When a society decides what to produce, it must also address other types of questions, such as what methods will be used, how many people will work on the production, and what will be the quality of the items produced? The answers to these questions depend on two factors. One factor depends on how goods are to be produced. Another important factor is the quantity of available resources. In a country where there are workers but very little capital resources, it's probable that little equipment and larger amounts of labor are used in producing goods. The opposite would be true in a country with capital resources but relatively few workers.

Who Should Share in What Is Produced? This question focuses on the concept that people can't get everything that they want because the society doesn't have enough resources. Thus, who gets the limited number of goods that are produced? Although the first two basic economic decisions are important, choosing how goods and services are distributed probably interests people most. In most societies, people can have as many goods and services as they can afford to buy. Thus, the amount of income people receive determines how many goods and services they can have. Then the question arises as to how does the society determine the income earned by each individual in that society?



#### Fast Review

- 1. When a society chooses to use a resource for one purpose and gives up the opportunity to use it for some other purpose, what cost is involved?
- **2.** What happens to production methods when a country discovers new ways to combine economic resources?
- 3. In most countries, what determines how many goods and services a person can buy?

# Real-World Application part 2 of 4 **HOW THE HEARTH SAVED YOU MONEY** The Countryside Multi-Fuel Corn/Pellet Stove burns corn (and it doesn't smell like popcorn). Burning corn saves the homeowner ten times more money than electricity or heating oil. Based upon the cost savings, do you think the price of corn is high or low? continued on p. 25

#### **Types of Economic Systems**

**Economics** studies how society chooses to use resources to produce and distribute goods and services for people's consumption. Businesses may contribute to an economic system by inventing products that use available resources.

To use its limited resources effectively, every nation needs an economic system. An economic system determines how resources will be used. The primary goal of an economic system is to provide people with a minimum standard of living, or quality of life.

To answer the basic economic questions just discussed, two basic and opposing economic systems have been developed. They are commonly referred to as a market economy and a command economy. When you compare the types of economic systems, you find that there are particular qualities unique to each.

#### **Market Economy**

In a **market economy** economic decisions are made in the marketplace according to the laws of supply and demand. Mobil gas stations, Fantastic Sam's hair salons, Federal Express offices, and the New York Stock Exchange are all marketplaces. The marketplace is anywhere money changes hands.

The Market and Prices. Price plays an important role in the market economy. Price is the amount of money given or asked for when goods and services are bought or sold. If producers think the price consumers will pay for a good or service is too low, and the price does not earn them a profit, they will produce little or none of the product. If they think the price is high enough to earn a profit, they will produce the good and service.

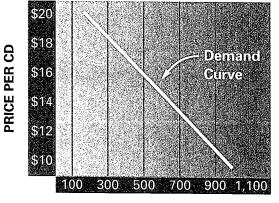
Consumers are the ones who determine the demand of an item. **Demand** is the amount or quantity of goods and services that consumers are willing to buy at various prices. Generally, the higher the price, the

Figure 22:2

#### VISUALIZING DEMAND AND SUPPLY

Perhaps graphing this abstract concept will help you. Remember these two points: (1) The demand curve always falls left to right on a graph, and (2) the supply curve always rises from left to right on the graph.

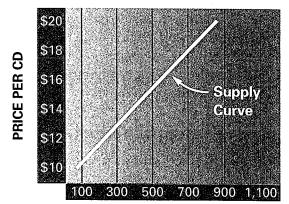
PART 1: DEMAND CURVE FOR CDs



QUANTITY OF CDs DEMANDED (Millions per Year)

How many CDs will be demanded at \$16 a piece?

PART 2: SUPPLY CURVE FOR CDs



QUANTITY OF CDs SUPPLIED (Millions per Year)

How many CDs will be supplied at \$18 a piece?

fewer consumers will buy an item. The opposite also applies: The lower the price, the more consumers will buy.

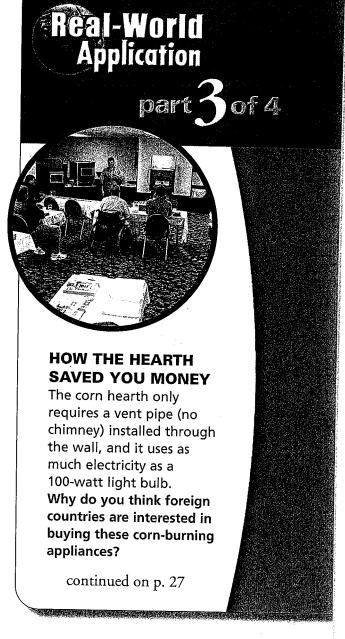
Suppose you walk into a store with \$15 to buy a CD. The store is having a "two for one" sale on CDs. You decide to buy two CDs for the price of one. Chances are many other customers will do the same thing. This results in more CDs being sold. The sale encourages consumers to buy more.

Producers are influenced to supply goods or services by the prices in the market. **Supply** is the amount of goods and services that producers will provide at various prices. Producers want to receive a price for their goods and services that will cover their costs and provide a profit.

Suppose the price for eggs rises from \$2 to \$4 a dozen. The price will probably increase because egg-producing businesses will see more profits to be made at \$4. At that price, producers are encouraged to produce more eggs.

Demand and supply work together. Figure 2.2 illustrates demand and supply. When the quantity demanded and the quantity supplied meet, this is called the **equilibrium price**. Equilibrium, then, is the price at which the amount supplied and the amount demanded meet.

The private enterprise system, also called, capitalism, has some unique characteristics. In this market economy system, resources are privately owned. You can own your own home, your own land, and your own business. You decide how your business will be run, what to sell, and how much to charge. As a consumer, you decide where to live, where to shop, and what to buy. If you need shampoo, you can buy the name brand for dry, unmanageable hair, or the store brand that's on sale. Government control of the marketplace is minimal. The primary role of government is to support the marketplace by removing obstacles such as trade barriers. The United States and Japan are examples of capitalist countries.



**The Market's Motivations.** A market economy also offers incentives, such as competition and the profit motive, to produce more. The *profit motive* is simply the desire to make more money. You have an incentive to work harder and longer if you can make more money. Businesses compete for customers by producing better and cheaper products. The constant demand for new goods and services encourages entrepreneurship.

The problem with a market economy is that owners and producers reap the most rewards. Unskilled workers and older adults are often unable to afford basic needs such as health care. In the United States, for example, the average chief executive officer makes almost 500 times as much as the average blue-collar worker. A small number of large companies can join forces to control the supply of products and manipulate prices. The profit motive can become an end in itself rather than a means to improve the product for all.

#### **Command Economy**

Many nations have a command economy. A command economy is also called a planned or managed economy. In a **command economy** a central authority makes the key economic decisions. This central authority is usually the government, or state.

There are two types of command economies. In a strong command economy, such as *communism*, the state makes all the economic decisions. The state controls all the resources for the common good. The state decides what to produce, how much, and how to distribute it. China, Cuba, and many Latin American and African countries have strong command economies.

#### **Business Building Blocks**

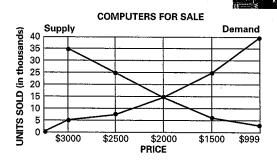
#### **Interpreting Line Graphs**

Graphs are a quick and useful way to visually communicate information. You see these from newspaper articles to cereal boxes. Line graphs often show change over a period of time. The left side of a graph is the *vertical axis*. The bottom of the graph is the *horizontal axis*. Both axes display numbers and a label indicating what the numbers represent. Dots on the graph show numerical information. When the dots are connected, they form a line whose location and direction on the graph reveals information about change through time.

#### **Practice**

Use the graph to answer the following questions: How many \$3,000 computers are being supplied? What is the difference between supply and demand for \$3,000 computers? At what price does the supply equal the demand for computers?

#### Math



#### How to Interpret a Line Graph

- Read the title of the graph.
- Read the label on each axis.
- Understand the numbers on each axis, including the interval used. The *interval* is the unit of measurement between numbers.
- Examine where the dots are located on the graph.
- Determine what the line(s) or curve(s) symbolize.
- Compare the line(s) on the graph to both axes to determine the graph's meaning.

In a moderate command economy, also called *socialism*, there is some form of private enterprise. The state owns major resources, such as airlines and steel, and makes the key economic decisions. However, individuals may own some businesses. France and Sweden are countries that have moderate command economies.

The primary advantage of a command economy is that it guarantees everyone an equal standard of living. The state provides you with a job, a place to live, and health care. Goods and services are distributed evenly. The state also takes care of things like utilities, transportation, and defense. There is usually less crime and poverty because everyone's needs and wants are equally met.

There are some disadvantages to a command economy. In a strong command economy since the state provides all goods and services there is little choice of what to buy. Goods that aren't considered necessities like fashion clothing and VCRs are often unavailable. Prices are fixed by the state, so there is no incentive to produce a better product. Wages are fixed by the state. If you're a highly skilled worker, like a doctor or a lawyer, you often earn the same wage as an unskilled worker. There is no incentive for entrepreneurship when you can't run your own business.

#### **Mixed Economy**

A free market economy and a command economy are great ideas in principle but don't always work in practice. In a market economy, there can be great poverty in the midst of great wealth. In a command economy, everyone is economically equal. In reality, few nations have an economy based totally on one model or the other.

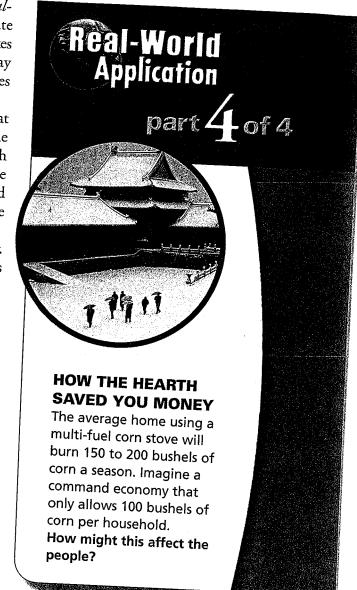
Most nations have a **mixed economy**, a combination of a market and command economy. The state takes care of people's needs while the marketplace takes care of people's wants. In the United States, for example, the government provides things like defense and education. The marketplace provides things like cars, computers, and fast food. There is some government regulation of business.

In every country, one type of economy is dominant. However, most countries find a mixed economy is the best way to manage their limited resources.

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#### **Fast Review**

- 1. Summarize how economic decisions in the market economy are made.
- 2. Compare the types of economic systems.
- **3.** What are the advantages and disadvantages of a command economy and a market economy?



# () Global Economy

Demand for OII Americans demand oil for many purposes, but mostly as a fuel for their automobiles. About 193 million vehicles burn 122 billion gallons of gasoline a year. Domestic supplies meet about half of the demand for oil. The map below shows where we get the rest.

Canada supplies 13 percent

Mexico supplies 11 percent

Caribbean Nations supply 4 percent

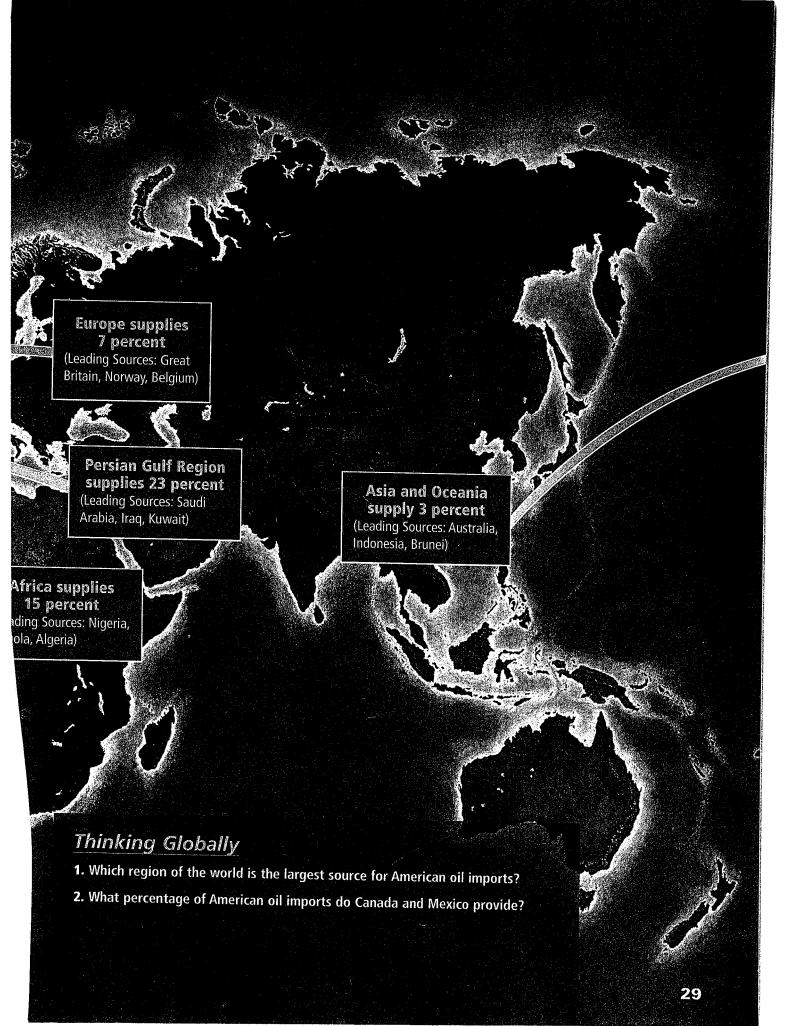
(Leading Sources: Virgin Islands, Trinidad and Tobago, Netherlands Antilles)

South America supplies 24 percent

(Leading Sources: Venezuela, Colombia, Argentina)

On average, a barrel holding 42 gallons of crude oil produces 21 gallons of gasoline.

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## Summary

- 1. Scarcity is the shortage of economic resources such as oil, doctors, or technology.
- **2.** The four factors of production are natural resources, human resources, capital resources, and entrepreneurial resources.
- 3. In a market economy all economic decisions are made in the marketplace according to the laws of supply and demand. In a command economy a central authority makes all economic decisions. In a market economy there are many incentives to produce, but owners and producers reap the most benefits. In a command economy there is economic equality, but few incentives to produce.
- **4.** In a mixed economy, the state takes care of people's needs while the marketplace takes care of people's wants.

#### **Using Business Key Words**

John g Baomioco Itoy Troido	
On a separate piece of paper, rewrite the sentences	5 are required to meet the changing
below, using the correct term to complete each one.	wants and needs of people.
≮ scarcity	6. Communism is an example of a
entrepreneurial resources	7 are the knowledge, efforts, and
economics .	skills people bring to their work.
factors of production	8. The are the economic resources
market economy	used to produce goods and services.
equilibrium price	9. A can be defined by the state tak-
natural resources	ing care of the people's needs while the ma
supply	ketplace takes care of the people's wants.
⊀ demand	10. The amount or quantity of goods and serv
k human resources	ices that consumers are willing to buy at
command economy	various prices is called
🗽 capital resources	11. The amount of goods and services that pro-
mixed economy	ducers will provide at various prices is
•	called the
1. The raw materials found in nature are	12. The study of how society chooses to use
called	resources to produce and distribute goods
2. Buildings, material, and equipment used to	and services for people's consumption is
produce goods and services are	called
3. Society's shortage of resources is called	13. When the quantity demanded and the
· · · ·	quantity supplied meet, this is called
	* / 11

4. Economic decisions are made according to

#### Review What You Learned

- **14.** What resource problem is faced by all societies?
- **15.** Differentiate among the types of economic resources?
- **16.** Name the two types of natural resources and give an example of each.
- 17. What is one of the biggest labor problems facing many nations today?
- **18.** What is the key to dealing with the problem of scarcity?
- **19.** What is the primary goal of an economic system?
- **20.** Explain the characteristics of the private enterprise system.
- **21.** What incentives are offered in a free market economy?
- **22.** Describe the two types of command economies.

#### Understanding Business Concepts

- 23. Select an item that you see in your class-room. Identify the factors of production you think were used to produce that item.
- 24. Are some natural resources more valuable than others? Explain.
- **25.** Describe how a country's economy is affected by its natural resources. Provide an example.
- **26.** What happens when human resources are scarce?
- 27. How do entrepreneurs help meet the changing needs and wants of people?
- **28.** Give an example of how the concept of supply and demand has affected you.
- **29.** Why is the profit motive considered an incentive in a free market system?
- **30.** Why do most countries find a mixed economy the best way to manage their limited resources?

#### Critical Thinking

- **31.** Think about a career you might be interested in pursuing. What capital resources would you use in that career?
- 32. A company produces a new toy that is liked by both children and adults. There is great demand for it. The supplier raises its price because there's no competition. The supplier cannot keep up with the demand. Some people believe the supplier is taking advantage of the public by increasing its price. Are such price increases allowed in a market system? Should the government control the price? What are other toy producers likely to do?



#### Viewing and Representing

**Examining the Image.** Look closely at the photo. Where do you focus? Step into the picture. What do you hear? What else do you see around you? Imagine you could buy the goods. Does the price seem fair? Would you buy them at the price shown? Why or why not? How does price affect the demand?

# Chapter 2 Review

#### Building Academic Skills



#### **Reading Current Events**

Select a current event that you have read about in the newspaper or have heard about on the news. Write a one- to two-page paper on how the event has had an impact on the U.S. economy.



## Researching Economic Resources

In a group, choose a foreign country and research the country's economic resources. Assign research topics to each member, such as:

- What natural resources are plentiful?
- What does the country produce with its natural resources?
- What kind of human resources does the country have?
- How does the country make up for the resources that are in short supply?
- What impact do entrepreneurial resources have on its economy?

Create a display of your group's findings, including graphics and photos.



#### **Averaging Prices**

List five things you buy often. Then list all the places you can buy those items. Record the price that each store charges for each item. Do some stores charge more than others? Why do prices differ for identical products? Determine the average price of each item based on the prices you recorded.



# Researching Economic Transition

Using the Internet, find a country that is making the transition from a command economy to mixed or market economy. Prepare a report on the process, the successes, and the difficulties of the transition.

#### Linking School to Home

**Listing Factors of Production.** Select five items found in your home that you and your family use quite frequently. List the factors of production you think were used to produce each item. Ask another family member to work on this project with you.

#### Linking School to Work

Presentation on Technology. Technology has had a dramatic effect on the economy in the United States. Create a list of all the technology that is currently available for consumer use. How much of it was available five years ago? Ten years ago? How has it impacted the U.S. economy? Prepare a two-minute presentation to share your findings with the class.

#### E-Homework

#### Applying Technology

**Categorizing Data.** Using the database created in Chapter 1, categorize the resources according to whether they are natural, human, capital, or entrepreneurial. Then, convert the database into a graphical representation of each category.

**Speculating on a Shortage.** Research the shortage of workers in information technology. Find out what kinds of jobs are available, the types of skills needed, and the training required in order to get into this career field. Then, speculate why you think there are so many job openings in information technology.

#### Connecting Academics

**Math.** Jasmeen, a jewelry vendor at the flea market, looks at her record of prices and sales volume over the past seven months:

April	Price \$10	Number of items sold 3,000
May	\$12	2,900
June	\$14	2,800
July	\$20	2,500
August	\$15	2,800
Septemb	er \$13	3,200
October	\$12	3,400

She asks you to draw a line graph showing the relationship between price and sales. Using the graph, explain to Jasmeen how price affects demand for the jewelry.

**Language Arts.** Get together in teams to teach one another about economic resources or economic systems. As a team, create a fun lesson plan on one of the following topics:

- Scarcity and factors of production
- The three economic questions
- Market economy
- Supply and demand
- Command economy and mixed economy Use real-world examples in your lessons. Present the lessons.

#### BusinessWeek An

# Analyzing the Feature Story



You read the first part of "Poland—Goods Runneth Over" at the beginning of this chapter. Below are a few questions for you to answer about Poland. You'll find the answers to these questions when you're

reading the entire article. First, here are the questions:

- **33.** What economic system is Poland moving toward?
- **34.** Name a factor of production that Poland plans to use more of in the future.

#### **CREATIVE JOURNAL ACTIVITY**

Break into small groups and agree on another Eastern European country to research.

- What factors of production could this country use?
- What natural resources are available?
- What human resources do they have? Share your findings with the rest of the class.



#### The Full Story

To learn more about Poland, visit the Introduction to Business Web site at www.introbus.glencoe.com, and click on BusinessWeek Feature Story, Chapter 2.