

In this chapter, look for the answers to these questions:

- What kinds of questions does economics address?
- What are the principles of how people make decisions?
- What are the principles of how people interact?
- What are the principles of how the economy as a whole works?

CHAPTER 1 TEN PRINCIPLES OF ECONOMICS

What Economics Is All About

- Scarcity: the limited nature of society's resources.
- Economics: the study of how society manages its scarce resources, e.g.
 - how people decide what to buy, how much to work, save, and spend
 - how firms decide how much to produce, how many workers to hire
 - how society decides how to divide its resources between national defense, consumer goods, protecting the environment, and other needs

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HOW PEOPLE MAKE DECISIONS

Principle #1: People Face Tradeoffs

All decisions involve tradeoffs. Examples:

- Going to a party the night before your midterm leaves less time for studying.
- Having more money to buy stuff requires working longer hours, which leaves less time for leisure.
- Protecting the environment requires resources that could otherwise be used to produce consumer goods.

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HOW PEOPLE MAKE DECISIONS
Principle #1: People Face Tradeoffs
Society faces an important tradeoff: *efficiency vs. equity*efficiency: getting the most out of scarce resources
equity: distributing prosperity fairly among society's members
Tradeoff: To increase equity, could redistribute income from wealthy to poor. But this reduces incentive to work and produce, shrinks the size of the economic "pie."

HOW PEOPLE MAKE DECISIONS

Principle #2: The Cost of Something Is What You Give Up to Get It

- Making decisions requires comparing the costs and benefits of alternative choices.
- The opportunity cost of any item is whatever must be given up to obtain it.
- It is the relevant cost for decision making.

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HOW PEOPLE MAKE DECISIONS

Principle #2: The Cost of Something Is What You Give Up to Get It

Examples:

The opportunity cost of...

- ...going to college for a year is not just the tuition, books, and fees, but also the foregone wages.
- ...seeing a movie is not just the price of the ticket, but the value of the time you spend in the theater.

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HOW PEOPLE MAKE DECISIONS

Principle #3: Rational People Think at the Margin

- A person is rational if she systematically and purposefully does the best she can to achieve her objectives.
- When making decisions, rational consumers and businesspeople evaluate the costs and benefits of marginal changes – incremental adjustments to an existing plan.

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HOW PEOPLE MAKE DECISIONS

Principle #3: Rational People Think at the Margin

Examples:

- A student considers whether to go to college for an additional year, comparing the fees & foregone wages to the extra income he could earn with an extra year of education.
- A firm considers whether to increase output, comparing the cost of the needed labor and materials to the extra revenue.

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HOW PEOPLE MAKE DECISIONS

Principle #4: People Respond to Incentives

- **incentive:** something that induces a person to act, *i.e.* the prospect of a reward or punishment.
- Rational people respond to incentives. Examples:
 - When gas prices rise, consumers buy more hybrid cars (*e.g.,* Toyota Prius).
 - When cigarette taxes increase, teen smoking falls.

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ACTIVE LEARNING 1: Exercise

You are selling your old Asus laptop. You have already spent \$10,000 on repairs.

At the last minute, the hard drive dies. You can pay \$6,000 to have it repaired, or sell the laptop "as is."

In each of the following scenarios, should you have the transmission repaired?

- A. eBay value is \$25,000 if hard drive works, \$17,000 if it doesn't
- B. eBay value is \$20,000 if hard drive works, \$15,000 if it doesn't

ACTIVE LEARNING 1: Answers

Cost of fixing hard drive = \$6,000

A. eBay value is \$25,000 if hard drive works, \$17,000 if it doesn't Benefit of fixing the hard drive = \$8,000 (\$25,000 - 17,000).

It's worthwhile to have the hard drive fixed.

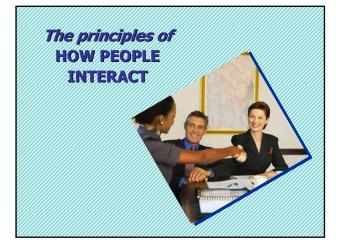
B. eBay value is \$20,000 if hard drive works, \$15,000 if it doesn't
Benefit of fixing the hard drive is only \$5,000.

Paying \$6,000 to fix hard drive is not worthwhile.

ACTIVE LEARNING 1: Answers

Observations:

- The \$10,000 you previously spent on repairs is irrelevant. What matters is the cost and benefit of the marginal repair (the hard drive).
- The change in incentives from scenario A to scenario B caused your decision to change.



HOW PEOPLE INTERACT

Principle #5: Trade Can Make Everyone Better Off

- Rather than being self-sufficient, people can specialize in producing one good or service and exchange it for other goods.
- Countries also benefit from trade & specialization:
 - get a better price abroad for goods they produce
 - buy other goods more cheaply from abroad than could be produced at home

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HOW PEOPLE INTERACT

Principle #6: Markets Are Usually A Good Way to Organize Economic Activity

- Market: a group of buyers and sellers (need not be in a single location)
- "Organize economic activity" means determining
 - <u>what</u> goods to produce
 - <u>how</u> to produce them
 - <u>how much</u> of each to produce
 - who gets them

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HOW PEOPLE INTERACT Principle #6: Markets Are Usually A Good Way to Organize Economic Activity • In a market economy, these decisions result from the interactions of many households and firms. • Famous insight by Adam Smith in *The Wealth of Nations* (1776): Each of these households and firms acts as if "led by an invisible hand" to promote general economic well-being. HAPPER 1 TEN PRINCIPLES OF ECONOMICS

HOW PEOPLE INTERACT

Principle #6: Markets Are Usually A Good Way to Organize Economic Activity

- The invisible hand works through the price system:
 - The interaction of buyers and sellers determines prices.
 - Each price reflects the good's value to buyers and the cost of producing the good.
 - Prices guide self-interested households and firms to make decisions that, in many cases, maximize society's economic well-being.

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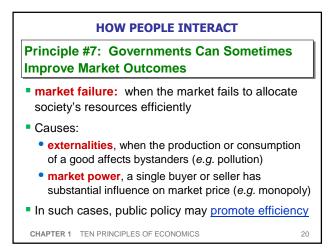
HOW PEOPLE INTERACT

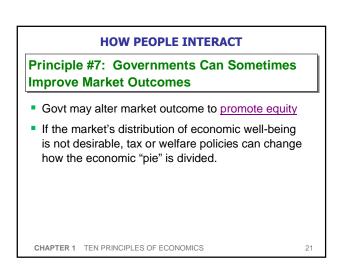
Principle #7: Governments Can Sometimes Improve Market Outcomes

- Important role for govt: <u>enforce property rights</u> (with police, courts)
- People are less inclined to work, produce, invest, or purchase if large risk of their property being stolen.

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ACTIVE LEARNING 2: Discussion Questions

In each of the following situations, what is the government's role? Does the government's intervention improve the outcome?

- a. Public schools for K-12
- b. National health insurance



The principles of HOW THE ECONOMY AS A WHOLE WORKS



HOW THE ECONOMY AS A WHOLE WORKS

- These are Macroeconomics Principles (for the Spring semester, not for now)
- Some are still controversial and under debate
- Blah blah blah...
 - See Yoram's "Translation" of the ten principles

HOW THE ECONOMY AS A WHOLE WORKS

Principle #8: A country's standard of living depends on its ability to produce goods & services.

- Huge variation in living standards across countries and over time:
 - Average income in rich countries is more than ten times average income in poor countries.
 - The U.S. standard of living today is about eight times larger than 100 years ago.
 - What about Taiwan?

CHAPTER 1 TEN PRINCIPLES OF ECONOMICS

HOW THE ECONOMY AS A WHOLE WORKS

Principle #8: A country's standard of living depends on its ability to produce goods & services.

- The most important determinant of living standards: productivity, the amount of goods and services produced per unit of labor.
- Productivity depends on the equipment, skills, and technology available to workers.
- Other factors (e.g., labor unions, competition from abroad) have far less impact on living standards.

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HOW THE ECONOMY AS A WHOLE WORKS

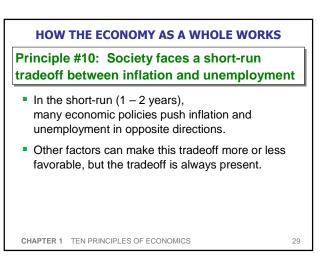
Principle #9: Prices rise when the government prints too much money.

- Inflation: increases in the general level of prices.
- In the long run, inflation is almost always caused by excessive growth in the quantity of money, which causes the value of money to fall.
- The faster the govt creates money, the greater the inflation rate.



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FYI: How to Read Your Textbook

1. Summarize, don't highlight.

Highlighting is a passive activity that won't improve your comprehension or retention. Instead, summarize each section in a few sentences of your own words. When you finish, compare your summary to the one at the end of the chapter.

2. Test yourself.

Try the "QuickQuiz" that follows each section before moving on to the next section. Write your answers down, and compare them to the answers in the back of the book. If your answers are incorrect, review the section before moving on.

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FYI: How to Read Your Textbook

3. Practice, practice, practice.

Work through the end-of-chapter review questions and problems. They are often good practice for the exams. And the more you use your new knowledge, the more solid it will become.

4. Go online.

The book comes with excellent web resources, including practice quizzes, tools to strengthen your graphing skills, helpful video clips, and other resources to help you learn the textbook material more easily and effectively.

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FYI: How to Read Your Textbook

5. Study in groups.

Get together with a few of your classmates to review each chapter, quiz each other, and help each other understand the material in the chapter.

6. Don't forget the real world.

Read the Case Studies and In The News boxes in each chapter. They will help you see how the new terms, concepts, models, and graphs apply to the real world. As you read the newspaper or watch the evening news, see if you can find the connections with what you're learning in the textbook.

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CONCLUSION

- Economics offers many insights about the behavior of people, markets, and economies.
- It is based on a few ideas that can be applied in many situations.
- Whenever we refer back to one of the Ten Principles from this chapter, you will see an icon like this one:

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CHAPTER SUMMARY

- The principles of decision making are:
 - People face tradeoffs.
 - The cost of any action is measured in terms of foregone opportunities.
 - Rational people make decisions by comparing marginal costs and marginal benefits.
 - People respond to incentives.

CHAPTER SUMMARY

- The principles of interactions among people are:
 - Trade can be mutually beneficial.
 - Markets are usually a good way of coordinating trade.
 - Govt can potentially improve market outcomes if there is a market failure or if the market outcome is inequitable.

CHAPTER SUMMARY

- The principles of the economy as a whole are:
 - Productivity is the ultimate source of living standards.
 - Money growth is the ultimate source of inflation.
 - Society faces a short-run tradeoff between inflation and unemployment.

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CHAPTER 1 TEN PRINCIPLES OF ECONOMICS

What Economics is About?

- Economics is a study of institutions and human behavior (reactions to institutions)
 - 「上有政策,下有對策」
 - (Classical) market mechanism is one example
- Other mechanisms: auctions, match-making
- Other institutions:
 - Governments, congress,
 - Welfare systems, national health insurance,
 - Families, social norms

Chap. 1: Ten Principles

- Seven in Micro-economics
- Three in Macro-economics: Blah blah blah
- Homework:
 - Watch the "Ten Principles of Economics: A Translation" YouTube video and read its transcript online
 - Mankiw p.16-17, Problem 3, 5, 8, 9, 11, 14, 17

Join the LUPI Game

- Lowest Unique Positive Integer Game
 Or, "Largest" Unique Positive Integer Game
- Please each chooses an positive integer from 1 through 99
- The person that chose the lowest (largest) number that no one else did wins
- You earn the right to add in this class now if you win, and 0 otherwise