

#### Look for the answers to these questions:

- What are economists' two roles? How do they differ?
- What are models? How do economists use them?
- What are the elements of the Circular-Flow Diagram? What concepts does the diagram illustrate?
- How is the Production Possibilities Frontier related to opportunity cost? What other concepts does it illustrate?
- What is the difference between microeconomics and macroeconomics? Between positive and normative?

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#### The Economist as a Scientist

- · Economists play two roles:
  - 1. Scientists: try to explain the world
  - 2. Policy advisors: try to improve it
- As scientists, economists employ the scientific method
  - Dispassionate development and testing of theories about how the world works

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### The Economist as a Scientist

- Assumptions
  - Simplify the complex world and make it easier to understand
  - Example: to study international trade, assume two countries and two goods
- Economists use models to study economic issues
  - Highly simplified representation of a more complicated reality

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#### Experiments vs. Models

- Dbservation, Theory, and More Observation? Or,
- Dbservation, Theoretical Models, and
- Experiments!
- ▶ Experimental Economics: a growing field
- ▶ Vernon Smith: 2002 Nobel Prize Winner
- Alvin Roth: 2012 Nobel Prize Winner
- Controlled experiment: a highly simplified environment of a more complicated reality
  - Just as a model is a highly simplified representation of a more complicated reality

7/9/13 Thinking Like an Economist

The Economist as a Scientist

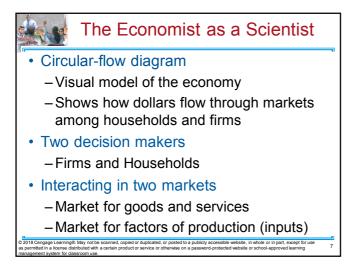
• Examples of models:

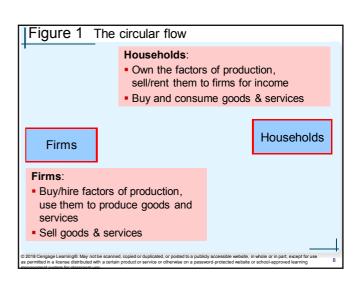
— The model teeth at the dentist's office

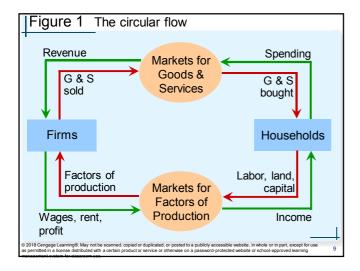
— A model of human anatomy from high school biology class

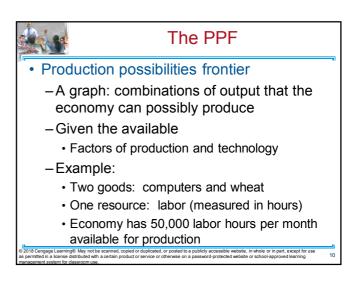
— A road map

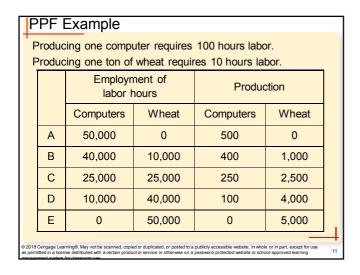
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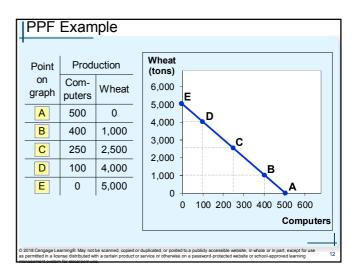












## Active Learning 1

#### Points off the PPF

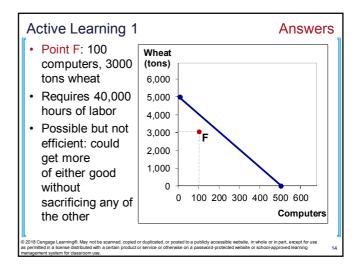
On the graph above, find the point that represents (100 computers, 3000 tons of wheat), label it **F**.

– Would it be possible for the economy to produce this combination of the two goods? Why or why not?

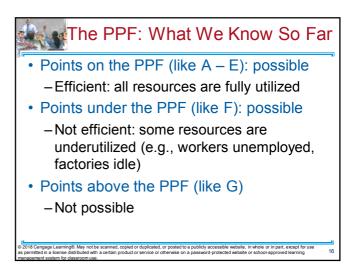
Next, find the point that represents (300 computers, 3500 tons of wheat), label it **G**.

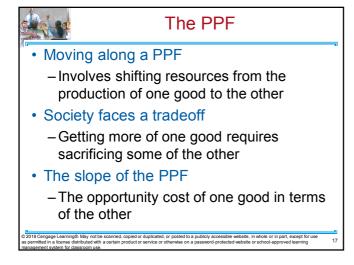
– Would it be possible for the economy to produce this combination of the two goods?

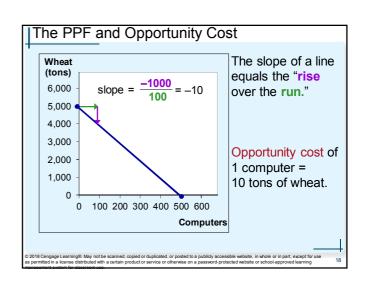
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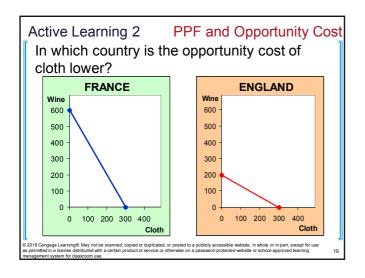


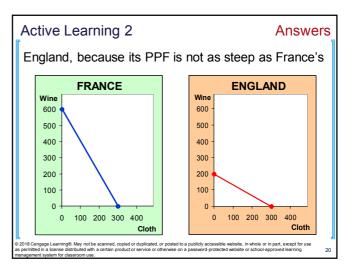
#### Active Learning 1 **Answers** • Point G: 300 Wheat computers, 3500 (tons) tons wheat 6.000 Requires 65,000 5,000 hours of labor. 4,000 G Not possible 3,000 because the 2,000 economy only 1.000 has 50,000 hours 0 100 200 300 400 500 600 Computers pe scanned, copied or duplicated, or posted to a publicly accessible website, in whole or in part, except for h a certain product or service or otherwise on a password-protected website or school-approved learning

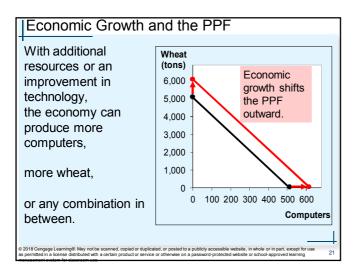


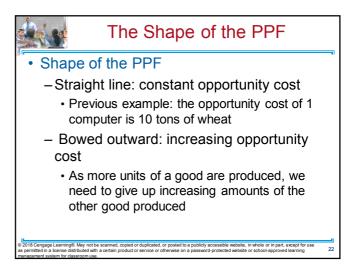


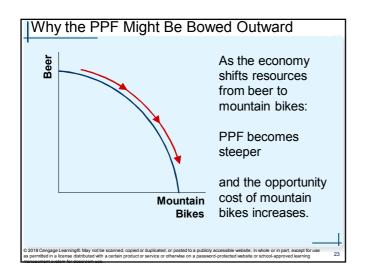


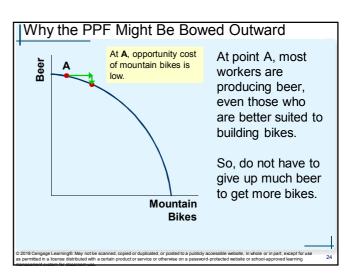




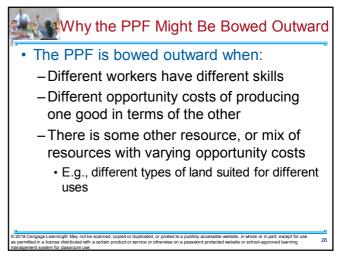








#### Why the PPF Might Be Bowed Outward At B, most workers Beer are producing bikes. The few left in beer production are the best brewers. Producing more At B, opportunity bikes would require cost of mountain shifting some of the bikes is high. best brewers away Mountain from beer production **Bikes** causing a big drop in beer output.





#### The Economist as a Scientist

- · Microeconomics: The study of...
  - how households and firms make decisions and how they interact in markets
- Macroeconomics: The study of...
  - economy-wide phenomena, including inflation, unemployment, economic growth
- However, the two theories are uniting with recent progress providing micro-foundation to macro.

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# The Economist as Policy Adviser

- Positive statements: descriptive
  - -Attempt to describe the world as it is
  - Confirm or refute by examining evidence:
     "Minimum-wage laws cause unemployment"
- Normative statements: prescriptive
  - Attempt to prescribe how the world should be: "The government should raise the minimum wage"

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Active Learning 3

#### Positive vs. Normative

Which of these statements are "positive" and which are "normative"? How can you tell the difference?

- a. Prices rise when the government increases the quantity of money.
- b. The government should print less money.
- c. A tax cut is needed to stimulate the economy.
- d. An increase in the price of burritos will cause an increase in consumer demand for music downloads.

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### Active Learning 3

**Answers** 

a. Prices rise when the government increases the quantity of money.

Positive – describes a relationship, could use data to confirm or refute.

b. The government should print less money.

Normative – this is a value judgment, cannot be confirmed or refuted.

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#### Active Learning 3

#### **Answers**

c. A tax cut is needed to stimulate the economy.

Normative – another value judgment.

d. An increase in the price of burritos will cause an increase in consumer demand for music downloads

Positive – describes a relationship.

Note that a statement need not be true to be positive.

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## Why Economists Disagree

- Economists often give conflicting policy advice
  - Can disagree about the validity of alternative positive theories about the world
  - May have different values and, therefore, different normative views about what policy should try to accomplish
- Yet, there are many propositions about which most economists agree

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Propositions about Which Most Economists Agree (and percentage of economists who agree)

- A ceiling on rents reduces the quantity and quality of housing available. (93%)
- Tariffs and import quotas usually reduce general economic welfare. (93%)
- The United States should not restrict employers from outsourcing work to foreign countries. (90%)
- The United States should eliminate agricultural subsidies. (85%)
- Local and state governments should eliminate subsidies to professional sports franchises (85%)

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Propositions about Which Most Economists Agree (and percentage of economists who agree)

- Cash payments increase the welfare of recipients to a greater degree than do transfers-in kind of equal cash value. (84%)
- A large federal budget deficit has an adverse effect on the economy. (83%)
- The United States should not ban genetically modified crops. (82%)
- A minimum wage increases unemployment among young and unskilled workers. (79%)
- Government subsidies on ethanol in the United States should be reduced or eliminated. (78%)

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#### Summary

- · Economists are scientists
  - Make appropriate assumptions and build simplified models
  - The circular-flow diagram and the production possibilities frontier
- Microeconomists study decision making by households and firms and their interactions in the marketplace
- Macroeconomists study the forces and trends that affect the economy as a whole

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# Summary

- A positive statement is an assertion about how the world is
- A normative statement is an assertion about how the world ought to be
- As policy advisers, economists make normative statements
- Economists sometimes offer conflicting advice
  - Differences in scientific judgments
  - Differences in values

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# Chapter 2: Thinking Like An Economist

- ▶ See how Economists think
- ▶ Key Idea:
- ▶ Circular Flow Diagram
- ▶ Production Possibility Frontier
- ▶ Suggested Homework:
  - ▶ Read Appendix on Graphing (Mankiw p. 40-48)
  - Mankiw, Chap.2, Problem 3, 4

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hinking Like An Economist

Joseph Tao-yi Wang