

# Three Basic Questions

- Every society must answer
- 1. What will be produced (how much)?
- 2. How will it be produced?
- 3. Who will get what is produced?



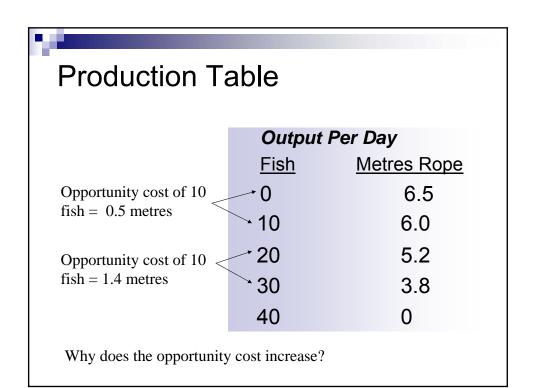
- 2 goods:
  - Fish
  - □Rope



How will this society answer 3 questions?

The Answer depends on:

- 1. Tastes
  - ☐ What do you want to produce?
- 2. Technology:
  - □ What skills/knowledge are available to combine scarce resources?





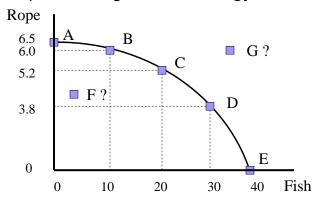
# Principle of Increasing Costs:

- As the production of one good expands, its opportunity cost generally increases
- Inputs tends to be specialized
  - □ Example: wheat v.s. barley production
- Initially fishing will be quite lucrative
  - □ Cast net out from shore
  - ☐ The cost of 10 fish is very low
- Eventually start to use time that is not very productive in fishing
  - □ Used up all of the good fishing spots



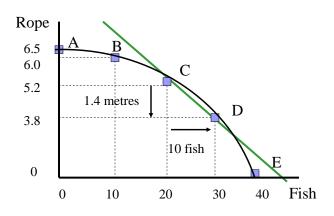
## **Production Possibilities Frontier**

 Plots the combination of goods that can be produced given technology and resources



## PPF Continued...

- Slopes down because resources are scarce
- Slope represents opportunity cost



#### Shape of the PPF ■ The PPF is bowed outward Result of the principal of increasing cost □ Opportunity cost increases as output expands Rope Because the slope 6.5 represents opportunity cost it 6.0 must increase (in abs. value) 5.2 3.8 E 0 Fish 0 10 20 30 40



## **Back on Track**

How do we answer the questions

- (1) What is produced?
- (2)How is it produced?
- <u>Technology</u> (skills): determines how resources can be combined.
  - embodied in the PPF
  - □ better skills may shift the PPF outward

<u>Tastes</u>: determine the combination of fish and rope chosen



## **Tastes and Efficiency**

- We know that points on the PPF are efficient in terms of production
- However, some points on the PPF may not be efficient in terms of product mix
  - $\hfill \square$  If hungry producing rope is inefficient
- Combinations of goods on the PPF that also satisfy the tastes of society are said to be "efficient in product mix"



# Two or More Person Economy

#### **Complications**

- a. Peoples preferences are not the same
- **b.** Peoples skills are not the same
- **c.** Now need to answer question (3) Who will get what is produced
- We'll discuss **a** and **c** later in the course
- Now we'll deal with b



# Specialization and Exchange

- Suppose there are now two people on the island
- Tom and Wilson

#### Scenario 1:

- Tom is better than Wilson at fishing

  □ Tom has an "absolute advantage" in fish production
- Wilson is better than Tom at weaving rope
- Obviously, Tom should fish all the time and Wilson should weave rope
- They are both better off if they specialize and exchange



# Example: Comparative Advantage

### Scenario 2:

Tom is better at both fishing and rope weaving

	Rope(m.)/day	<u>Fish/day</u>	
Tom	6	8	
Wilson	4	2	

- Should they specialize and exchange?
- Tom opportunity cost of 1 fish = ¾ m. rope
- Wilson opportunity cost of 1 fish = 2 m. rope
- Tom has a "comparative advantage" in fishing



## **Comparative Advantage Continued**

	Rope(m.)/day	Fish/day	
Tom	6	8	
Wilson	4	2	

Opportunity cost of 1 metre of rope:

- Tom 1.3 fish
- Wilson ½ fish
- Wilson has a "comparative advantage" in rope production
- We can show that both would be better off if they specialize and exchange



# Specialization and Exchange

 Suppose they do not trade and each spends 5 days a week fishing and 2 days making rope

	Without Trade		With Trade	
	Rope	<u>Fish</u>	Rope	<u>Fish</u>
Tom	12	40	15	44
Wilson	8	10	13	12

- If they specialize total production will be:
  - □ Tom: 7 8 = 56 fish
  - □ Wilson: 7 4 = 28 metres of rope



# How do Systems Coordinate?

- I Command Economy (Old Russian, China)
- Centrally planned
  - $\hfill\Box$  Decide what produced
  - □ Decide how goods are distributed
- Big task
- II Free Market System "Laissez Faire"
- Limited government involvement
- Agents act on self-interest
  - □ Usually leads to efficient outcome
- The 3 questions are answered "in the market"