Worksheets



Fill in the Blank

Please add the appropriate word or words to complete the sentences.

1.	According to the invisible hand theory, efficiency is dependent on the activity of interacting in free markets.			
2.	In a market system, all goods, services, and resources are based on willingness and ability.			
3.	Society has a dilemma determining what should be because resources are scarce.			
4.	Because our wants are and the resources to fulfill these wants have, we are forced to choose among a set of alternatives.			
5.	is what is given up to accomplish something.			
6.	Efficient producers are opportunity cost producers because they give up less.			
7.	Consumers determine what will be produced. Producers determine to combine resources in production.			
8.	Only those who are and will have goods and services allocated to them.			
9.	are productive inputs.			
10.	An example of is an accountant or building contractor.			
11.	An example of could be an office building constructed on a plot of land.			
12.	A production possibility model shows the of any two goods that can be			
13.	The slope of the curve or frontier tells us there is an inverse relationship between the two variables being measured.			
14.	If an economy is producing the frontier it is inefficient and has some idle resources			
15.	If an economy is producing the production possibility frontier it is efficiently employing all available resources.			
16.	A point the frontier is an impossible combination of goods and services with the current state of knowledge.			
17.	Comparative Advantage states producing efficiently at a relatively opportunity cosmeans we give up fewer resources to achieve our output compared to another.			
18.	Empirical evidence may be described as evidence relating to or based on or observation.			
19.	statements are declarations of fact such as a statistic.			
20.	economic statements are opinions based on social or cultural norms.			
21.	In the construction of all economic experiments analysts must use other things being equal. The purpose of this clause is to variables in problems to determine what causes a change			

Equations

Please use the following equation(s) to help solve problems for this chapter.

Equation for Per Unit Opportunity Cost

Related concepts: comparative advantage, production possibilities model. (PPF)

To calculate per unit opportunity cost we must set up a relative ratio or proportions. We will use quantities of goods or services produced in the ratio. In our example, we will produce good x or good y.

Producer A:
$$\frac{x}{x} = \frac{y}{x}$$
 and $\frac{y}{y} = \frac{x}{y}$

Producer B:
$$\frac{x}{x} = \frac{y}{x}$$
 and $\frac{y}{y} = \frac{x}{y}$

Some students may be more accustom to \cong than =.

For example, producer A can generate 65 tons of agricultural goods or 70 tons of industrial goods. These output levels represent the limits of goods production.

$$\frac{65}{65} = \frac{70}{65}$$
 and $\frac{70}{70} = \frac{65}{10}$

$$= 1.08$$
 $1 = .9$

Using this table we may find all the ratios for some alternative productions in the model.

Producer A	Agricultural	Industrial
	50	45
	25	65

Ν	Name:	•	

Graph Map

Please graph two hypothetical production possibilities models. In one of the graphs, please construct a frontier with the two variables having a constant rate of change. In the other draw the constraint with the two goods or services having a varied rate of change. What would make the frontier linear or nonlinear?

Name:			

Math It Graph It Write It

Question 1

Please use the information in the table to answer the following questions. For example, if Colombia produced 300 units of tobacco, they would produce zero units of coffee.

Country	Tobacco in Bushels	Coffee in Pounds
Colombia	300	900
Cuba	250	500

- 1. What is the opportunity cost for Colombia to produce one unit of coffee? Tobacco?
- 2. What is the opportunity cost for Cuba to produce one unit of coffee? Tobacco?
- 3. Please construct the production possibilities models (PPFs) for each country. Other things being equal, the resources within each country have a constant opportunity cost and are suited to produce coffee or tobacco.
- 4. Which country has a comparative advantage with regard to coffee production? Why?

Question 2

Please use the PPF data below to answer the following questions. Assume the points satisfy the assumption of full employment and fixed technology in this economy. The two goods the economy produces are bags of tea and bags of snacks in these combination:

Points	Tea	Snacks
А	0	14
В	1	13
С	2	10
D	3	6
E	4	0

a. What is the opportunity cost per-unit gained when moving production from point

i. B to C?

iii. E to D?

ii. A to B?

iv. D to C?

- b. If the economy is currently producing 10 bags of snacks, what is the opportunity cost of producing two more bags of tea?
- c. Is point B efficient? Why?
- d. If the economy is currently producing at a point F, which is 3 bags of tea and 5 bags of snacks, what is the economy doing?
- e. Why does this PPF have a bowed-out (concave) shape?
- f. How can the economy increase its production of both tea and snacks?
- g. Using the data, draw the PPF and show the change from question (f) on the graph.