

The Digital Economist

Principles of Macroeconomics

Worksheet #1: **Comparative Advantage**

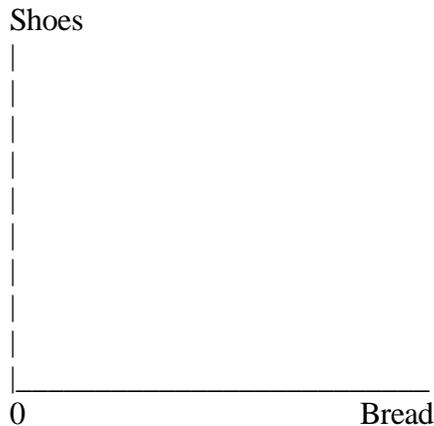
Name: _____

1. Given the following production data for John and Mary:

Mary can produce 3 loaves of Bread per hour of work *or* she can produce 6 pairs of shoes per hour of work.

John can produce 5 loaves of bread per hour of work *or* he can produce 3 pairs of shoes per hour of work.

- Who has the *Absolute Advantage* in Bread production? _____
- Who has the *Absolute Advantage* in Shoe production? _____
- Who has the *Comparative Advantage* in Bread Production? _____
- What is the *opportunity cost* of producing bread for this individual? _____
- Who has the *Comparative Advantage* in Shoe production? _____
- What is the *opportunity cost* of producing shoes for this individual? _____
- Who should specialize in Bread production? _____
- On the diagrams below, draw a production possibilities curve based on each person (Mary and John) working a single 8-hour day. On the left diagram assume that these two individuals produce the good where they lack a comparative advantage. On the right diagram assume that these two individuals take advantage of their respective comparative advantages.

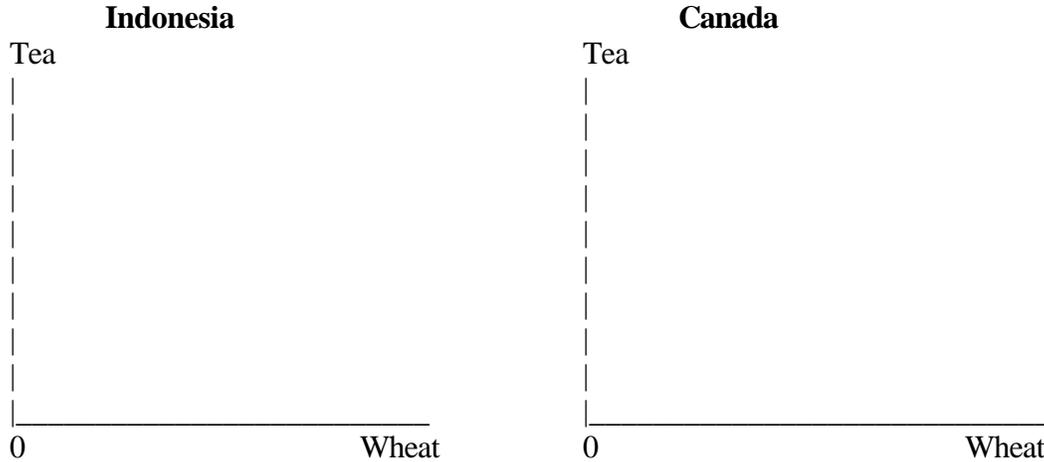


2. Given the following production data for two countries, **Indonesia** and **Canada**:

	Indonesia	Canada
<i>Production of:</i>		
one unit of wheat requires:	10 labor hours	3 labor hours
one unit of tea requires:	4 labor hours	9 labor hours

a. Calculate the opportunity costs of wheat and tea production in both countries and define which country has the *Comparative Advantage* in Wheat production and which country has the *Comparative Advantage* in Tea production.

b. Plot a production possibilities curve for each country assuming that **Indonesia** has 200 labor hours available and **Canada** has 150 labor hours available:



c. On each diagram, plot a **Terms of Trade** line corresponding to 1 unit of Wheat for 1 unit of Tea assuming that each country specializes in that product where they have a *Comparative Advantage*.