2018



AP Macroeconomics

Sample Student Responses and Scoring Commentary

Inside:

Free Response Question 3

- **☑** Scoring Guideline
- ☑ Student Samples
- **☑** Scoring Commentary

© 2018 The College Board. College Board, Advanced Placement Program, AP, AP Central, and the acorn logo are registered trademarks of the College Board. Visit the College Board on the Web: www.collegeboard.org. AP Central is the official online home for the AP Program: apcentral.collegeboard.org

AP[®] MACROECONOMICS 2018 SCORING GUIDELINES

Question 3

5 Points (1 + 1 + 1 + 2)

(a) 1 point:

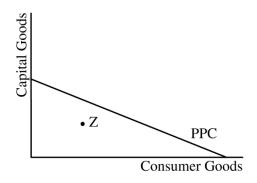
• One point is earned for stating that neither country has a comparative advantage in producing consumer goods and for explaining that the opportunity cost of producing 1 unit of consumer goods is the same for both countries (which is 1/2 a unit of capital goods).

(b) 1 point:

• One point is earned for correctly calculating the unemployment rate as 10 percent (20,000/200,000 × 100 = 10%).

(c) 1 point:

• One point is earned for correctly calculating the labor force participation rate as 66.67 percent $(200,000/300,000 \times 100 = 66.67\%)$.



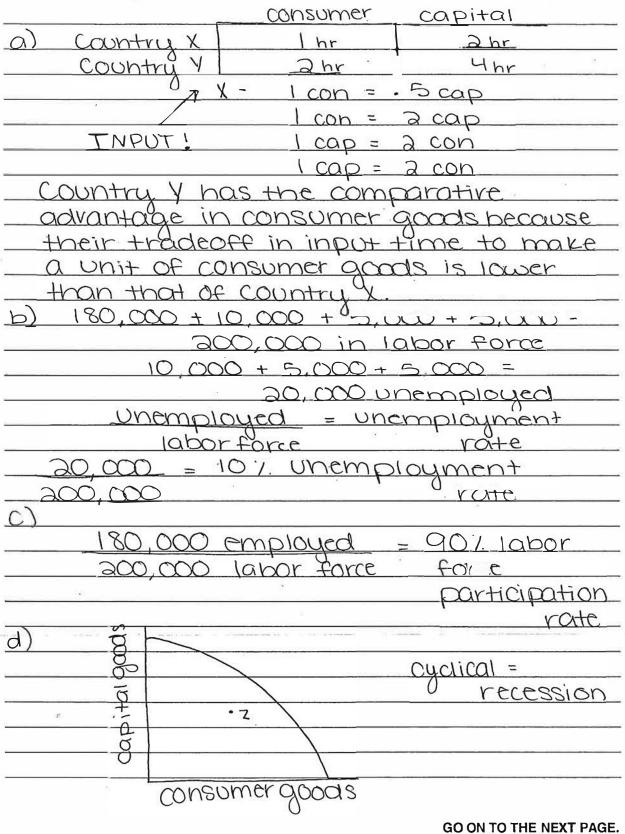
(d) 2 points:

- One point is earned for drawing a correctly labeled graph of the production possibilities curve (PPC).
- One point is earned for correctly showing point Z below the PPC.

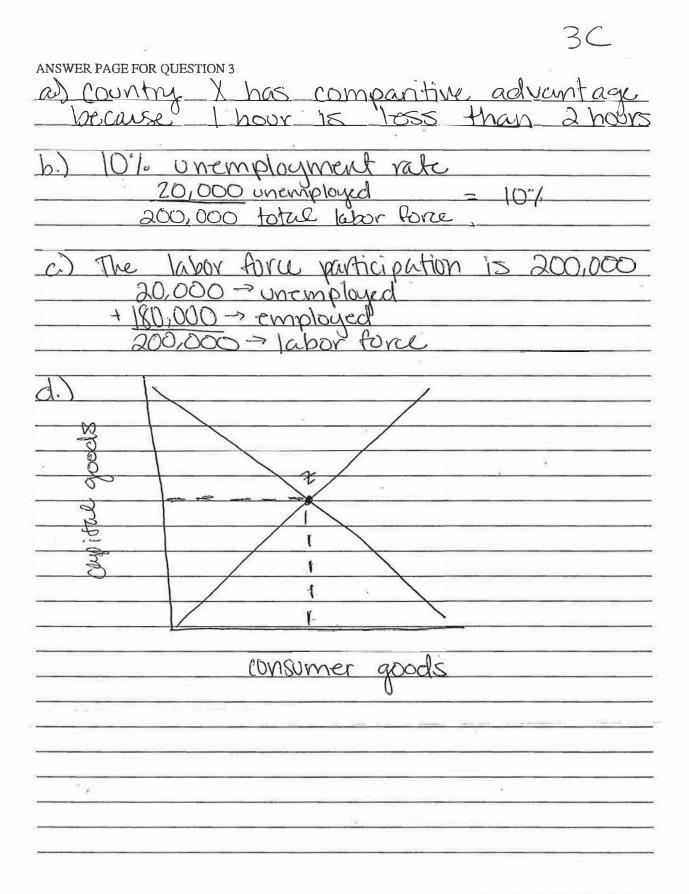
answer page	onsumer Capital (Inputs)
X	$1/2 = \frac{1}{2}$ $2/1 = 2$
У	$2/4=Y_2$ $4/2=2$
Neither u consumer	ountry has comparative advantage in production of a or ds since both country's oppurtunity cost
for produc	goods since both country's oppurtunity cost ing consumer goods are the same.
b) Unem	$ployment \times 100 10 \ 000 + 5000 + 5000 = 20 \ 000$
	$r \ \text{force} \qquad [80\ 000 + 20\ 000 = 200\ 000$
	÷
20 0	00 = 1 × 100 = 10% unemployment rate
200 0	00 10
0	<u> </u>
c) Labou	w force $\times 100$ 20 000 + $ 80\ 000 = 200\ 000$
	100 000 + 200 000 = 300 000
popu	
	100 - a versa 66 67 1/ 1 / have frage and i institu
	$100 = 2 \times 100 = 66.67 \%$ labor force participation rate
300 0	00 3
d)	
Capital	
goods	•Z
2. 19 B.A.	L'ANSILM als and de
	consumer goods
	8

GO ON TO THE NEXT PAGE.

ANSWER PAGE FOR QUESTION 3



-15-



GO ON TO THE NEXT PAGE.

© 2018 The College Board. Visit the College Board on the Web: www.collegeboard.org.

AP[®] MACROECONOMICS 2018 SCORING COMMENTARY

Question 3

Overview

The question examined students' knowledge about opportunity cost and comparative advantage as well as employment statistics. In part (a) students were given information about opportunity cost and asked to identify and explain whether Country X or Country Y had a comparative advantage in the production of consumer goods. The next two parts of the question asked the students to use labor market data for Country X to calculate the unemployment rate in part (b) and the labor force participation rate in part (c). Finally, part (d) asked the students to draw a correctly labeled graph of the production possibilities curve (PPC) for Country X and to label a point (Z) that reflected the current level of unemployment the students had calculated in part (b).

Sample: 3A Score: 5

The student answers all parts of the question correctly and earned all 5 points.

Sample: 3B Score: 3

The student did not earn 1 point in part (a) because the response incorrectly states that Country Y has the comparative advantage. The student did not earn 1 point in part (c) because the response provides an incorrect calculation of the labor force participation rate.

Sample: 3C Score: 1

The student earned 1 point in part (b) for a correct calculation of the unemployment rate.