

Exercise walk-through

Comparative Advantage and Gains from Trade ■ 1.3

eXercise

You must be able to

- calculate **opportunity costs** 机会成本 of production from output data
- distinguish **absolute advantage** 绝对优势 from **comparative advantage** 比较优势
- determine which producer has the comparative advantage in each good
- explain how **specialization** 专业化 and trade create gains

Method — Opportunity cost from output

If a country can make 10 wheat **or** 5 cloth with the same resources, then 1 wheat costs $\frac{5}{10} = 0.5$ cloth.

Method — Absolute vs comparative advantage

Absolute advantage = producing **more** of a good. **Comparative** advantage = producing at a **lower opportunity cost**. Gains from trade come from **comparative** advantage.

Method — Specialize and trade

Each producer specializes in the good for which its opportunity cost is **lowest**, then trades — and both can end up with more than in isolation.

Practice 2.1 ■ 2 marks

State the difference between absolute and comparative advantage.

Solution 2.1

Method: Absolute vs comparative advantage

Worked steps

absolute advantage is producing more of a good with the same resources; comparative advantage is producing it at a lower opportunity cost **B1** **B1**.

Practice 2.2 ■ 2 marks

Country X can make 20 wheat **or** 10 cloth. Find the opportunity cost of 1 wheat.

Solution 2.2

Method: Opportunity cost from output

Worked steps

1 wheat costs $\frac{10}{20} = 0.5$ cloth **M1** **A1**.

Practice 2.3 ■ 1 mark

State the basis on which a country should choose which good to specialize in.

Solution 2.3

Method: Specialize and trade

Worked steps

the good in which it has the **lower opportunity cost** (comparative advantage) **B1**.

Exam-style 3.1 ■ 1 mark

A producer has a comparative advantage when it has a lower

A total output

B opportunity cost

C selling price

D population

Solution 3.1

Method: Absolute vs comparative advantage

A total output

B opportunity cost 

C selling price

D population

Worked steps

B.

Exam-style 3.2 ■ 1 mark

Mutual gains from trade come from

- A** absolute advantage
- B** specialization by comparative advantage
- C** raising tariffs
- D** self-sufficiency

Solution 3.2

Method: Absolute vs comparative advantage

- A absolute advantage
- B specialization by comparative advantage** 
- C raising tariffs
- D self-sufficiency

Worked steps

B.

Exam-style 3.3 ■ 1 mark

In one hour, Ann makes 4 cakes **or** 8 breads; Ben makes 2 cakes **or** 2 breads.

- (a) Find Ann's opportunity cost of 1 cake.
- (b) Find Ben's opportunity cost of 1 cake.
- (c) State who should specialize in cakes, and why.

Solution 3.3

Method: Specialize and trade

Worked steps

(a) 1 cake costs 2 breads **B1**. (b) 1 cake costs 1 bread **B1**. (c) Ben — his opportunity cost of a cake (1 bread) is lower than Ann's (2 breads) **B1**.