

Exercise walk-through

Changes in Factor Demand and Factor Supply ■ 5.2

eXercise

You must be able to

- identify the determinants that shift **factor demand** 要素需求, including the output price and worker **productivity**
- explain how the price of a related input shifts factor demand
- identify the determinants of **factor supply** 要素供给
- predict the effect of a shift on the equilibrium **wage** and quantity

Method — Factor demand shifters

Since demand for a factor is derived from its MRP, it rises when the **output price** rises or workers become more **productive**. A change in the price of a related input can also shift it.

Method — Factor supply shifters

The **number of available workers**, and their willingness to work at each wage.

Method — Equilibrium effects

More labour **demand** → higher wage and quantity. More labour **supply** → lower wage, higher quantity.

Practice 2.1 ■ 1 mark

State one determinant that shifts factor demand.

Solution 2.1

Method: Factor demand shifters

Worked steps

any one of: the output price, worker productivity, the price of a related input **B1**.

Practice 2.2 ■ 1 mark

State how an increase in worker productivity affects factor demand.

Solution 2.2

Method: Factor demand shifters

Worked steps

it increases factor demand (higher MRP) **B1**.

Practice 2.3 ■ 2 marks

State the effect of an increase in the number of available workers on the equilibrium wage.

Solution 2.3

Method: Factor supply shifters

Worked steps

the wage falls and the quantity of labour rises **B1** **B1**.

Exam-style 3.1 ■ 1 mark

Factor demand rises when the price of the good it helps make

A falls

B rises

C is zero

D is fixed by law

Solution 3.1

Method: Factor demand shifters

A falls

B rises



C is zero

D is fixed by law

Worked steps

B.

Exam-style 3.2 ■ 1 mark

An increase in labour supply, other things equal,

A raises the wage

B lowers the wage

C raises MRP

D has no effect

Solution 3.2

Method: Equilibrium effects

A raises the wage

B lowers the wage 

C raises MRP

D has no effect

Worked steps

B.

Exam-style 3.3 ■ 1 mark

The demand for a product rises sharply.

- (a) State the effect on the MRP of the labour making it.
- (b) State the effect on the demand for that labour.
- (c) State the effect on the equilibrium wage.

Solution 3.3

Method: Equilibrium effects

Worked steps

(a) it rises **B1**. (b) labour demand rises **B1**. (c) the equilibrium wage rises **B1**.