

Write your name here

Surname

Other names

**Pearson Edexcel**  
**Level 3 GCE**

Centre Number

--	--	--	--	--

Candidate Number

--	--	--	--

# Further Mathematics

**Advanced Subsidiary**  
**Further Mathematics options**  
**27: Decision Mathematics 1**  
**(Part of options D, F, H and K)**

Thursday 17 May 2018 – Afternoon

Paper Reference

**8FM0-27**

**Answer Book**

Do not return the question paper with the answer book.

Total Marks

Turn over ►

P60208A

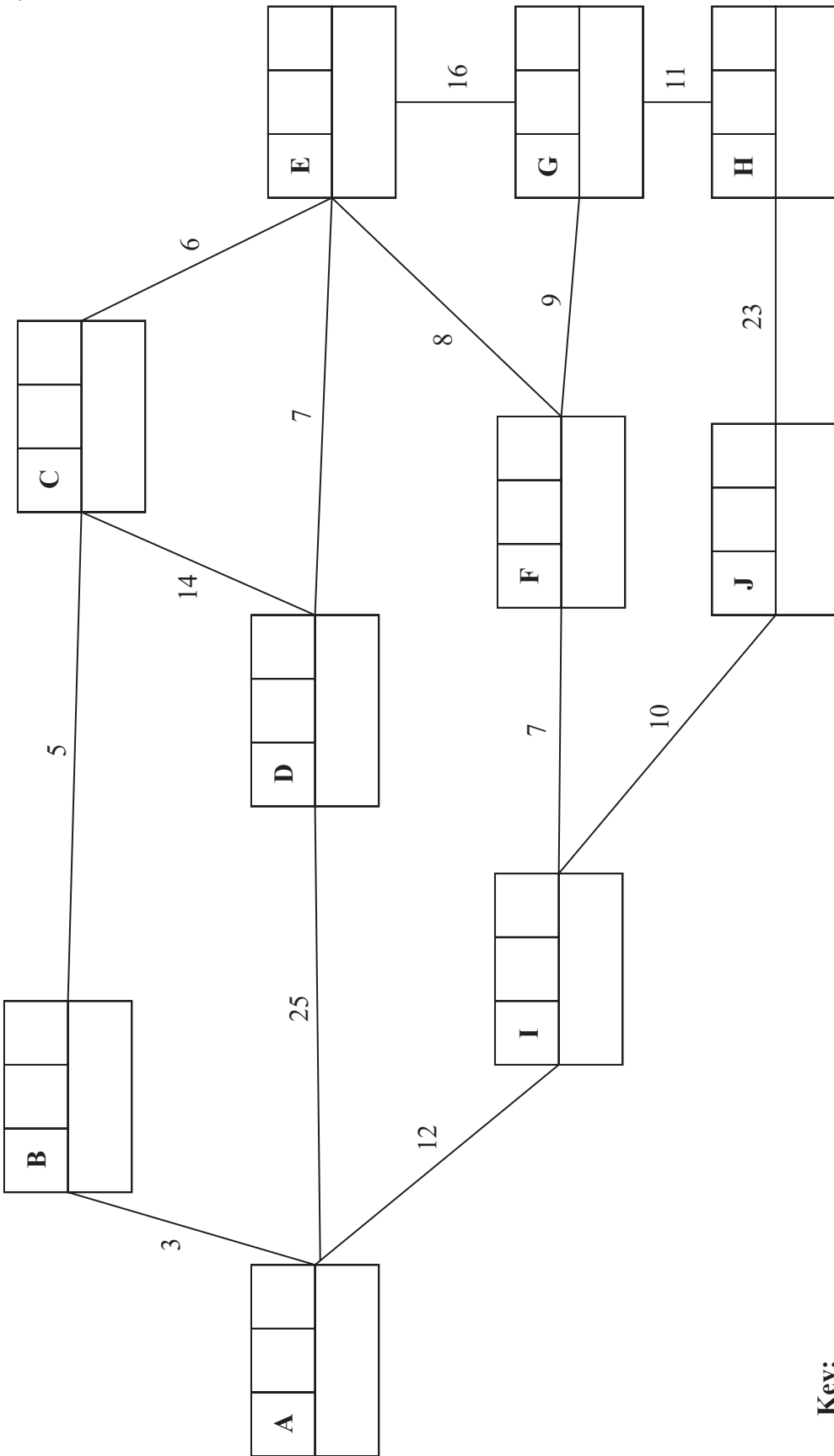
©2018 Pearson Education Ltd.

1/1/1/



  
**Pearson**

1.



Shortest time: \_\_\_\_\_

Quickest route: \_\_\_\_\_

**Key:**

Vertex	Order of labelling	Final value
Working values		

Leave blank

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Leave blank

**Question 1 continued**

Lined writing area for the answer to Question 1.

**(Total 9 marks)**

**Q1**



Leave  
blank

2.

Minimum number of arcs: \_\_\_\_\_

Maximum number of arcs: \_\_\_\_\_

(b) (i)

---

---

---

---

---

---

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



**Question 2 continued**

Lined writing area for the answer to Question 2.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA







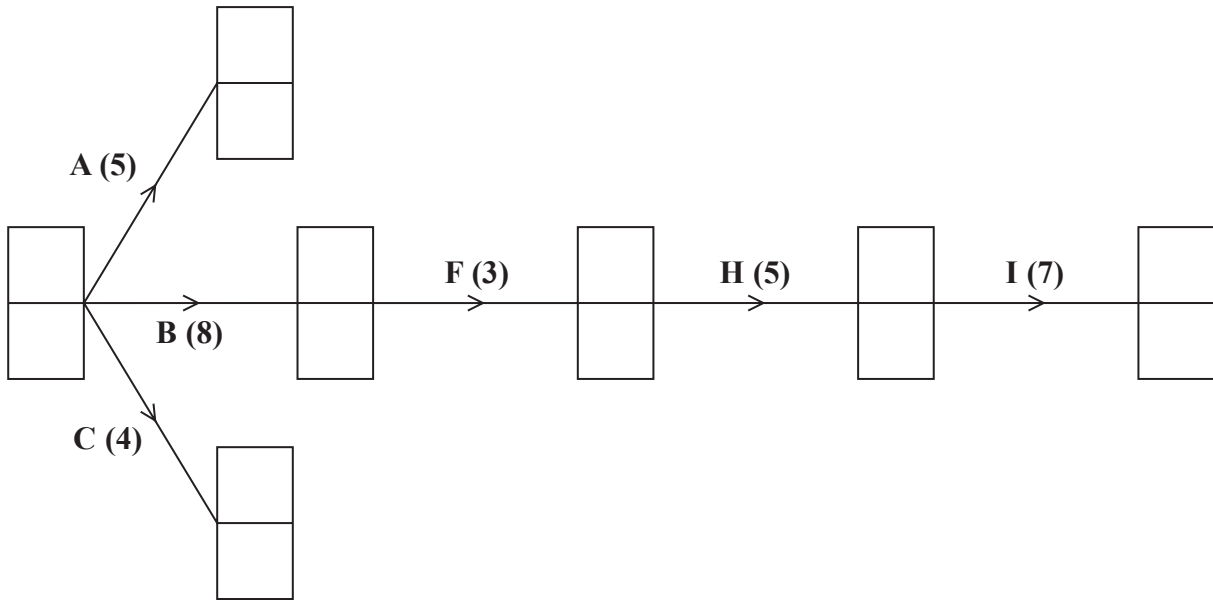
Leave blank

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

3.



Key:

Early event time
Late event time

Diagram 1

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---





Leave  
blank

**Question 3 continued**

Lined area for writing the answer to Question 3.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

**Q3**

--	--

**(Total 10 marks)**



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Leave blank

4.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

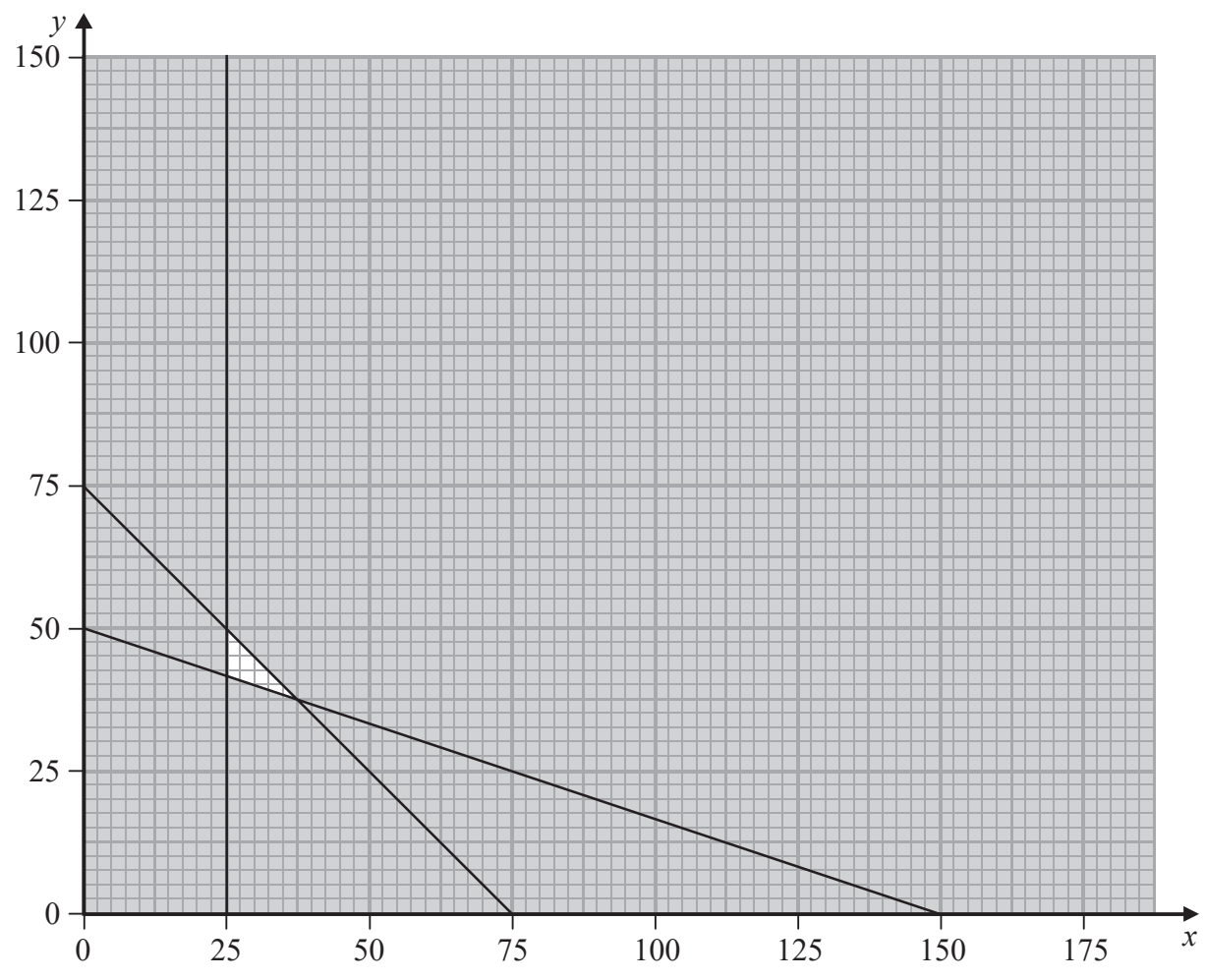


Diagram 1



Leave blank

Question 4 continued

Lined writing area for Question 4 continued.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



