

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

--	--	--	--	--

--	--	--	--

Pearson Edexcel Level 3 GCE

Friday 19 May 2023

Afternoon

Paper
reference

8FM0/27

Further Mathematics

Advanced Subsidiary

Further Mathematics options

27: Decision Mathematics 1

(Part of options D, F, H and K)

D1 Answer Book

Do not return the question paper with the answer book.

Total Marks

Turn over ►

P72813A

©2023 Pearson Education Ltd.
N:1/1/




Pearson

1.

67 59 46 71 40 48 53 63 45 54 56

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Question 1 continued

Lined area for writing answers.

(Total for Question 1 is 4 marks)



2. (a)

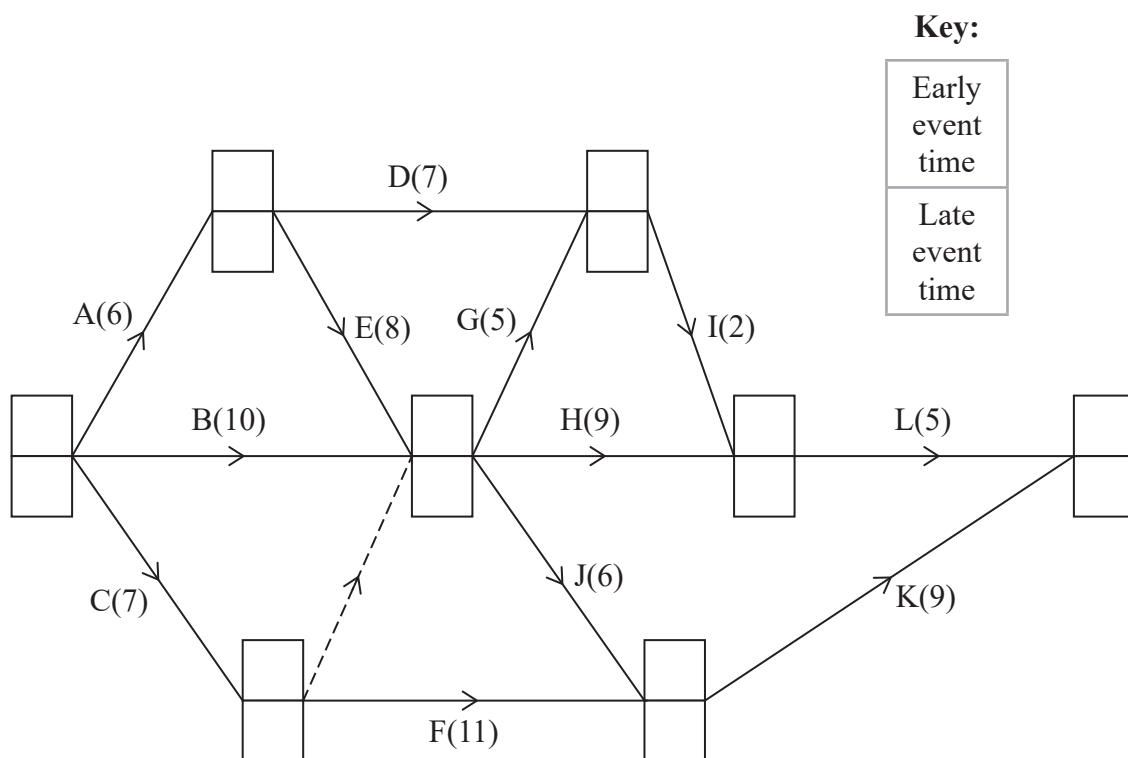
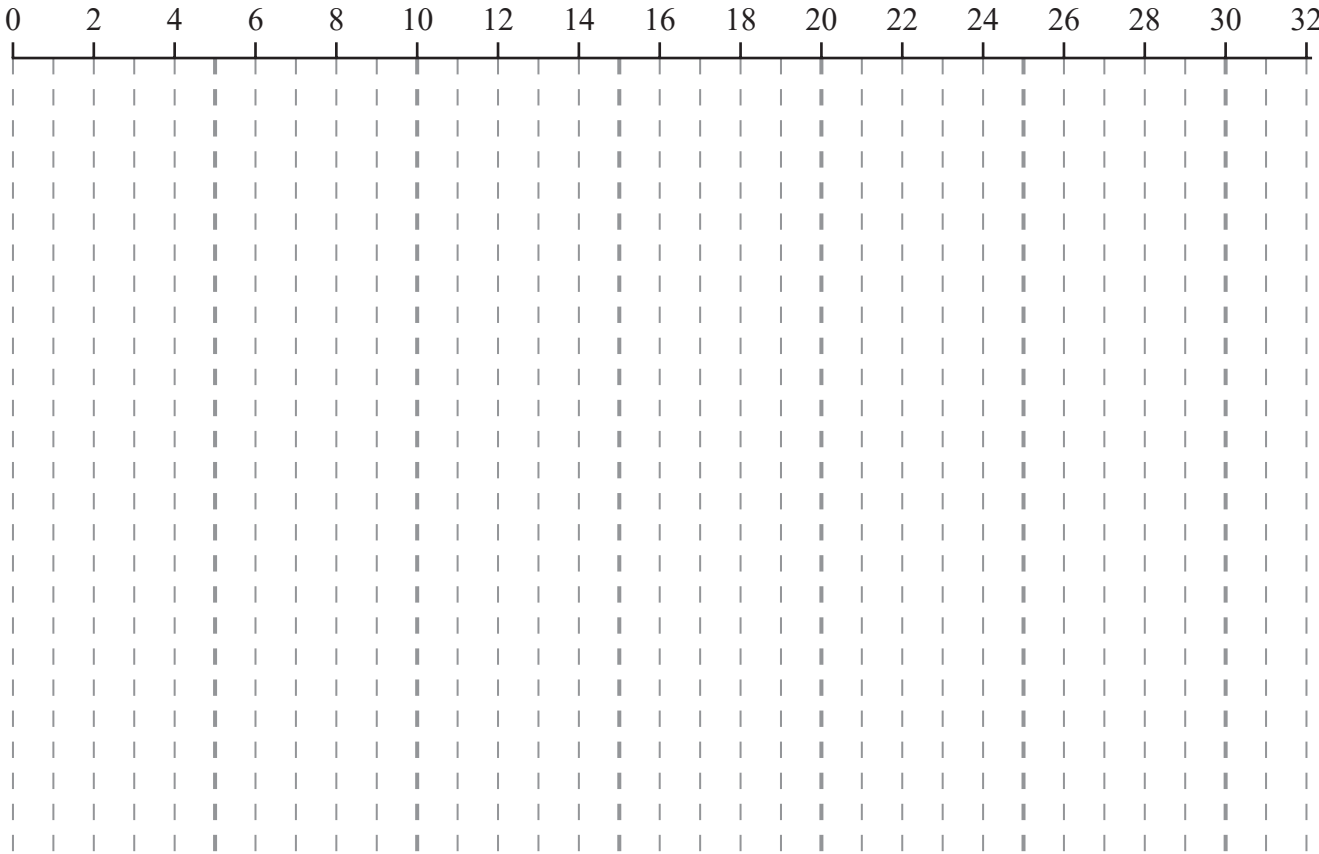


Diagram 1

DO NOT WRITE IN THIS AREA

Question 2 continued



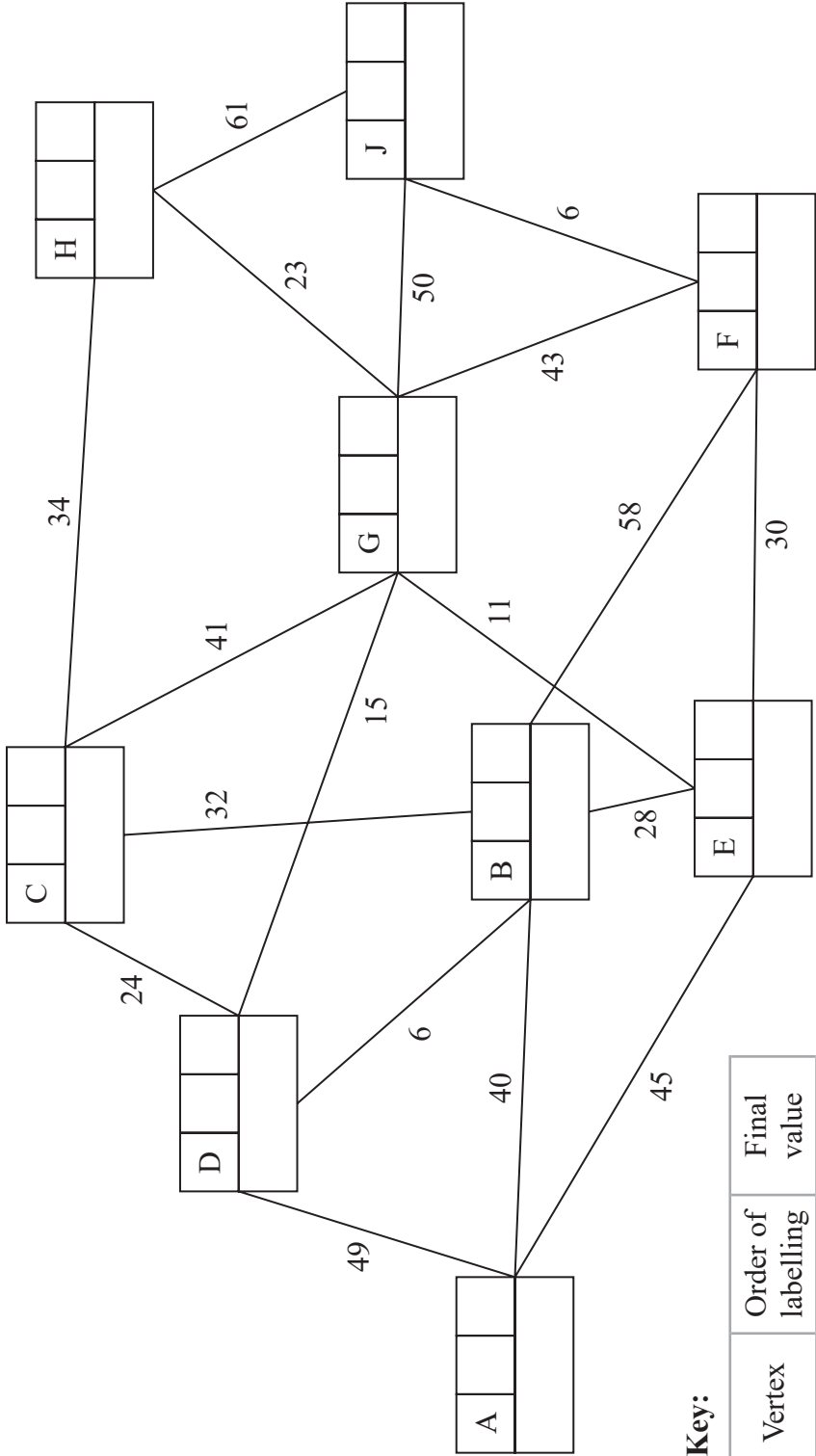
Grid 1

Handwritten area for the student's answer, consisting of 10 horizontal lines.

(Total for Question 2 is 10 marks)



3. (a)



Shortest route from A to J via C: _____

Length of shortest route from A to J via C: _____

DO NOT WRITE IN THIS AREA

Question 3 continued

Lined area for writing answers.

(Total for Question 3 is 11 marks)



4.

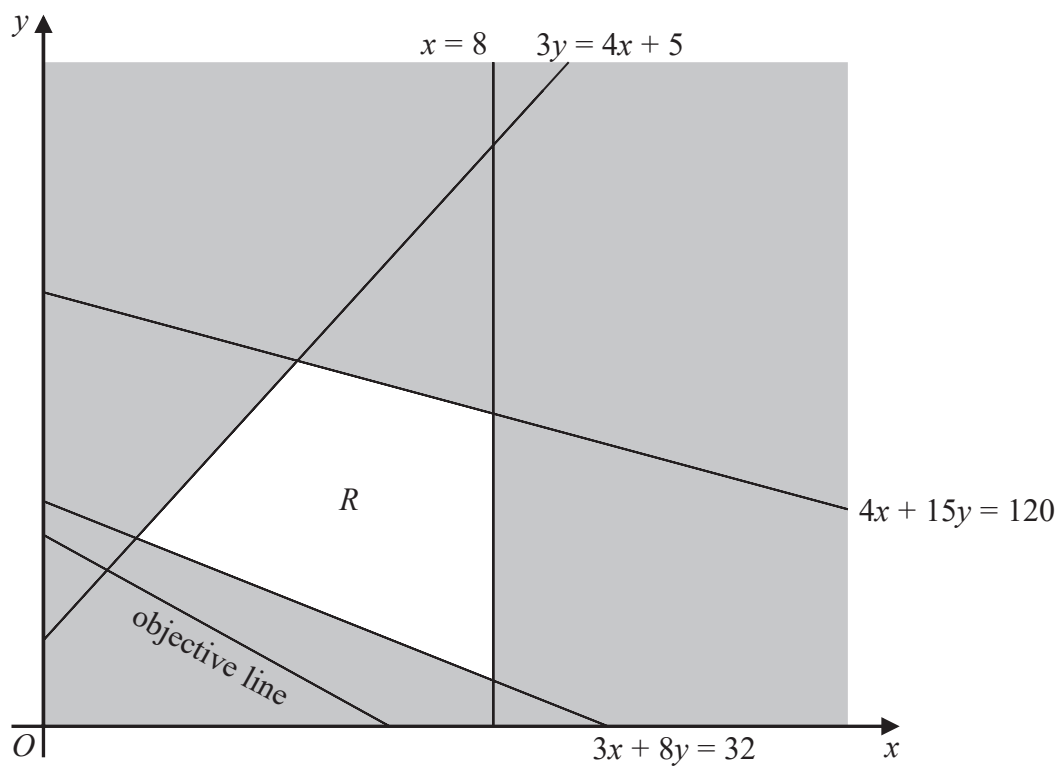


Figure 3

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Question 4 continued

Lined area for writing answers.

(Total for Question 4 is 7 marks)



5.

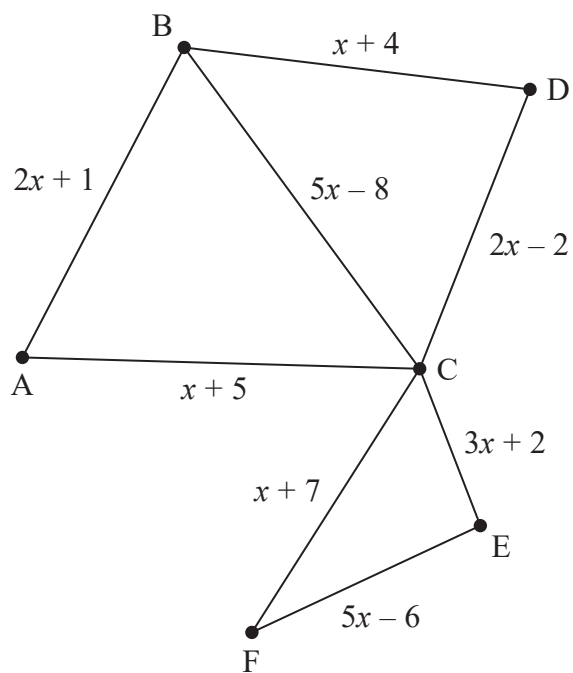


Figure 4

[The weight of the network is $20x + 3$]

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Question 5 continued

Lined area for writing the answer to Question 5.



Question 5 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 5 is 8 marks)

TOTAL FOR DECISION MATHEMATICS 1 IS 40 MARKS

