

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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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

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N:1/1/




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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)

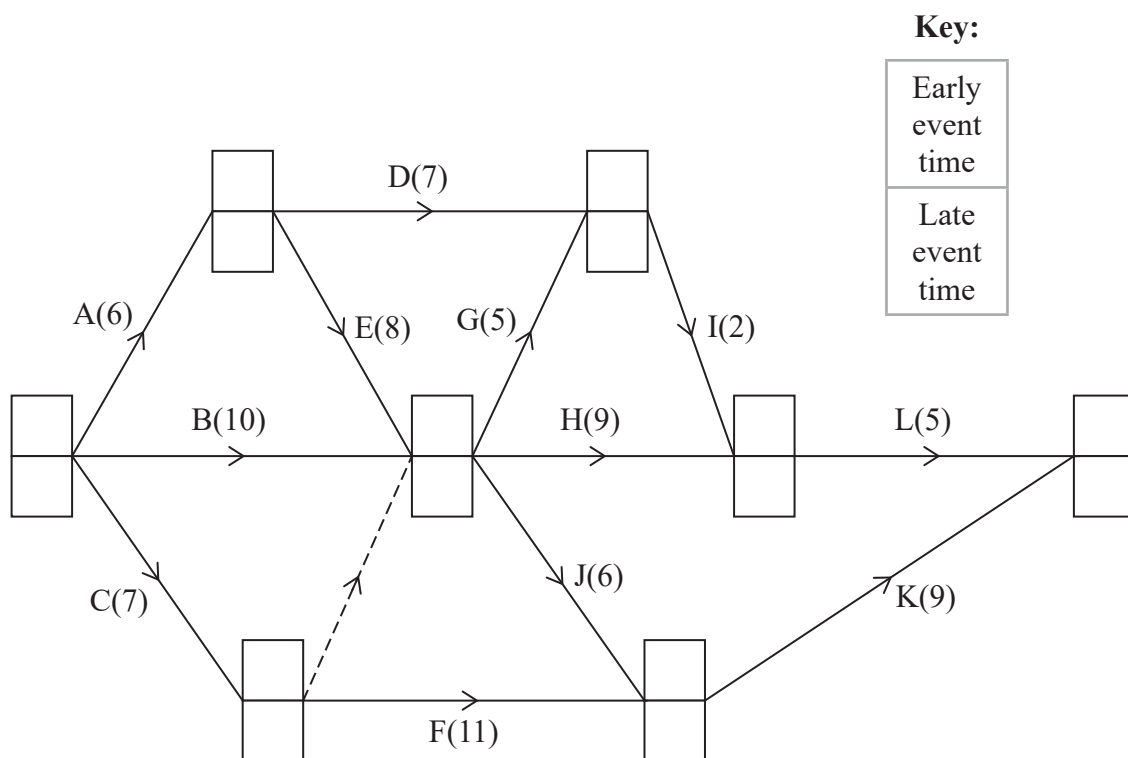
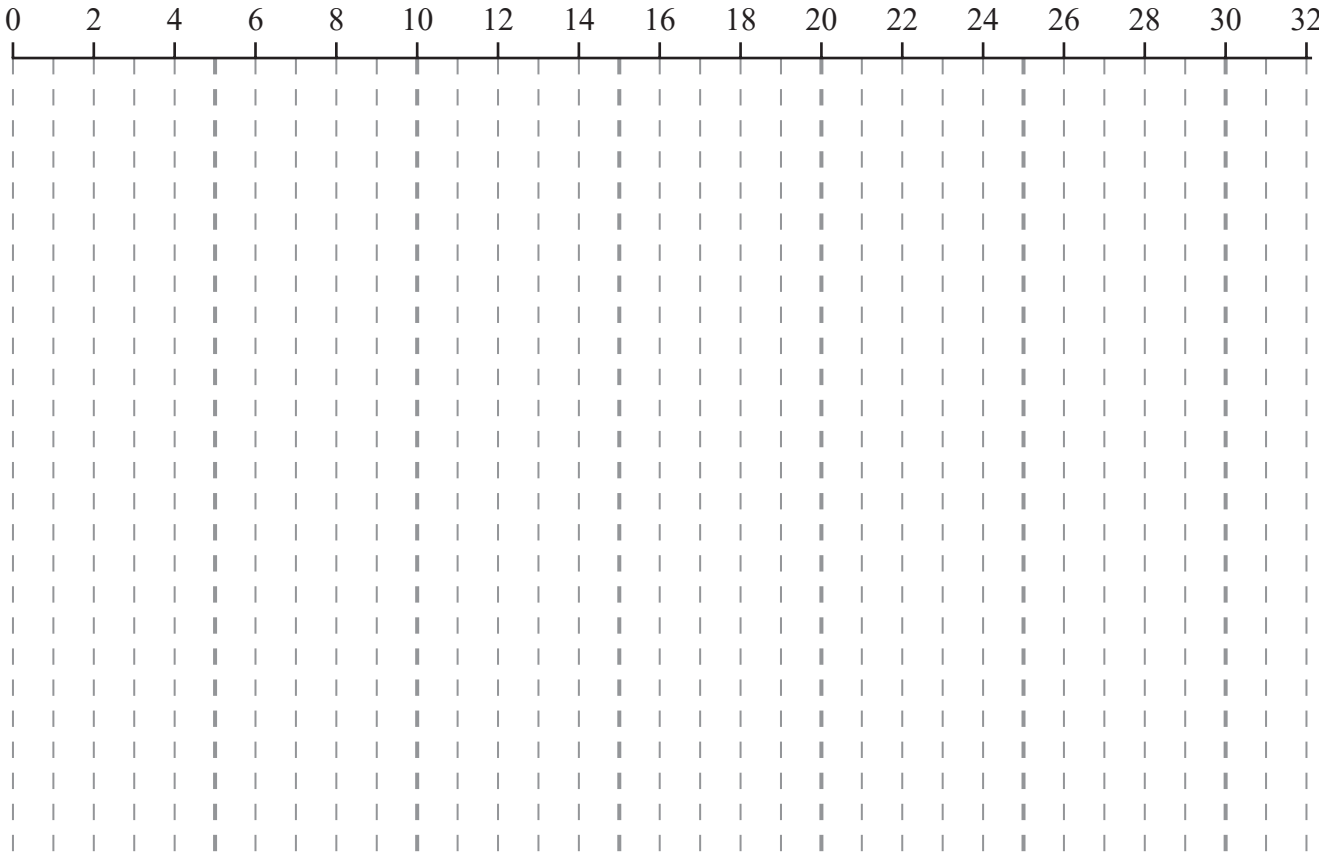


Diagram 1

DO NOT WRITE IN THIS AREA

Question 2 continued



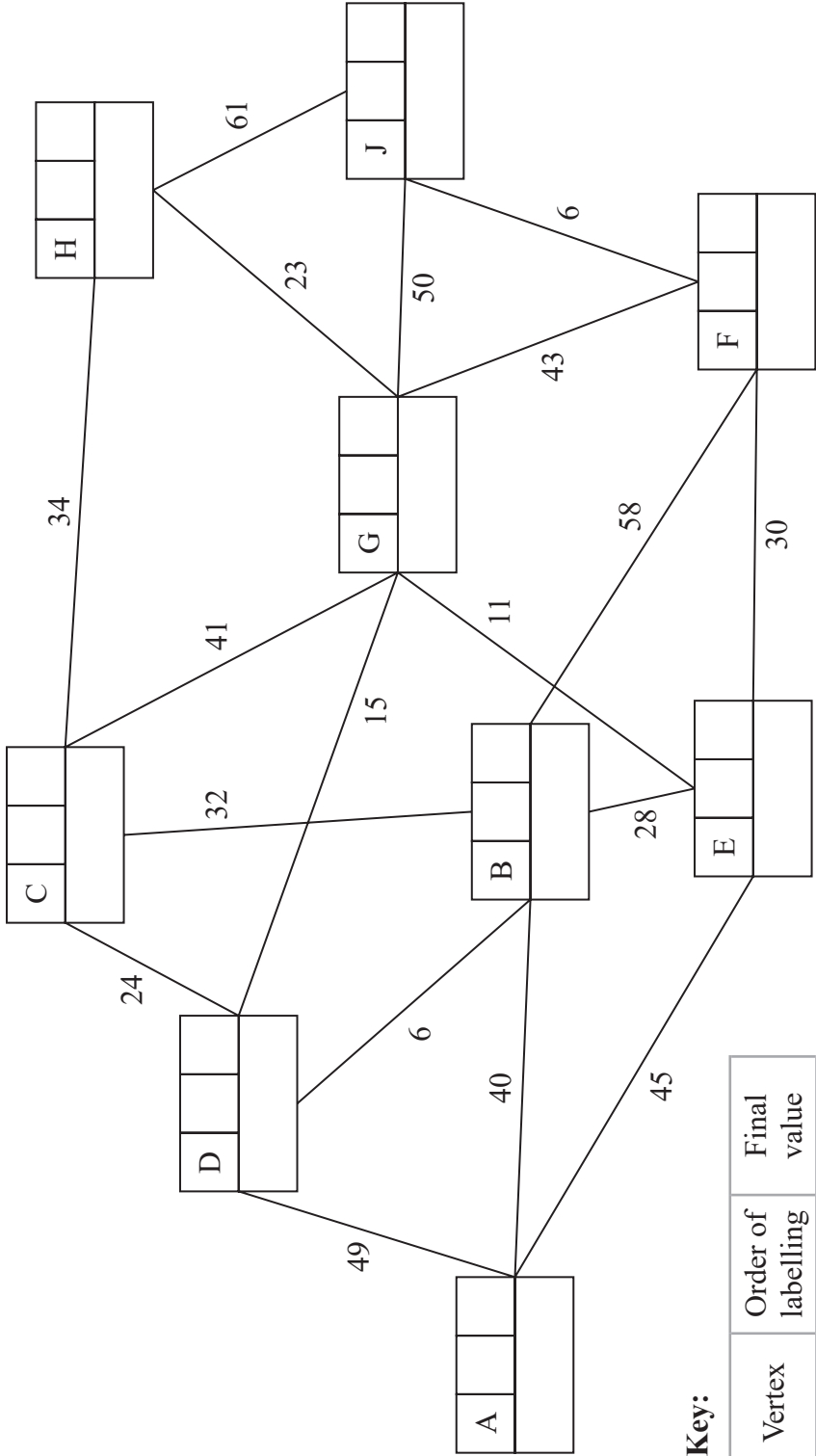
Grid 1

Handwritten area with horizontal lines for writing answers.

(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.

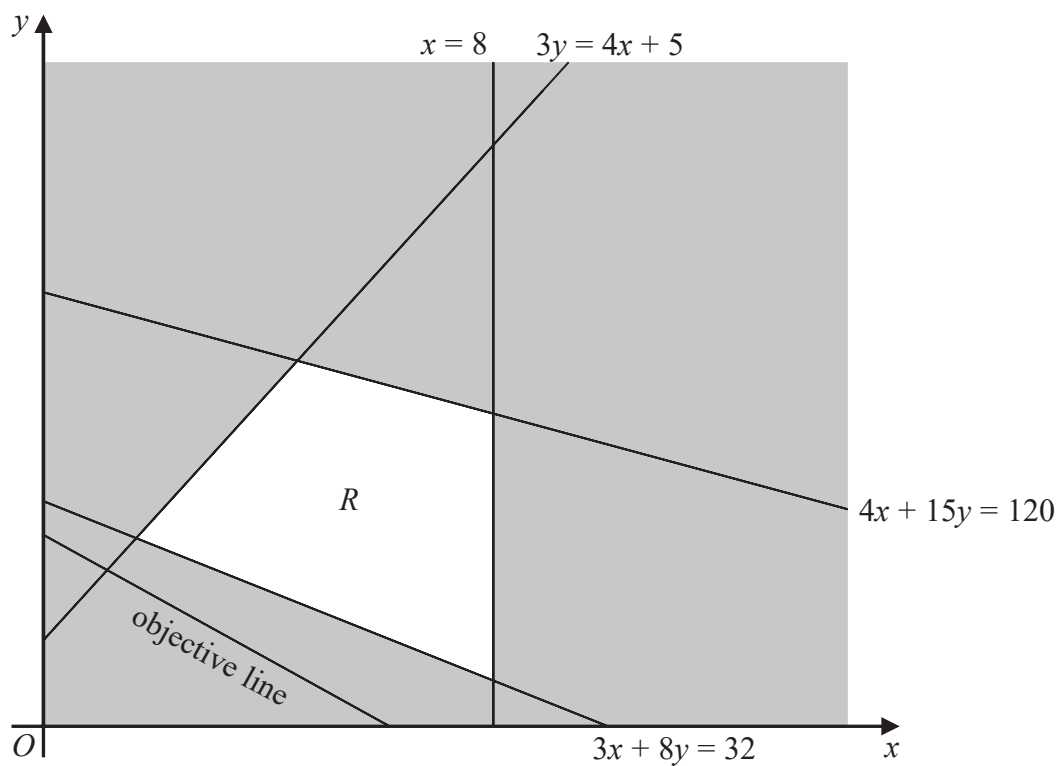


Figure 3

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

Handwriting practice area with horizontal lines.

(Total for Question 4 is 7 marks)



5.

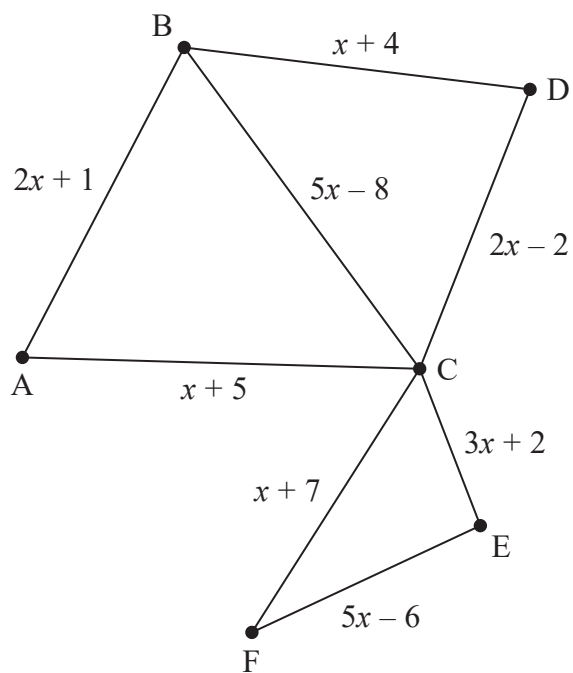


Figure 4

[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

