

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

Pearson Edexcel International Advanced Level

Wednesday 10 January 2024

Morning (Time: 1 hour 30 minutes)

Paper
reference

WDM11/01

Mathematics

**International Advanced Subsidiary/Advanced Level
Decision Mathematics D1**

Answer Book

Do not return the question paper with the answer book.

Total Marks

Turn over ►

P73481A

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S:1/1/1/1/




Pearson

1.

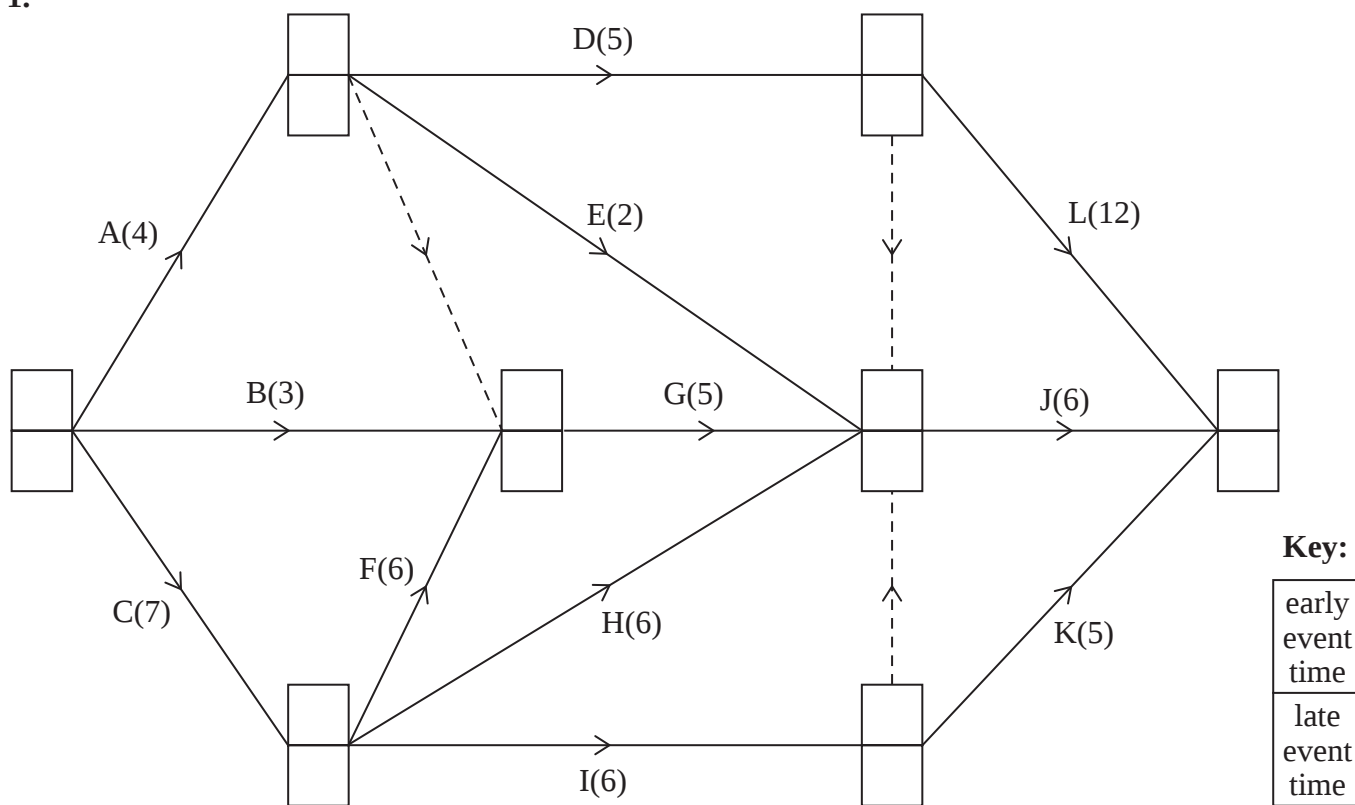


Diagram 1

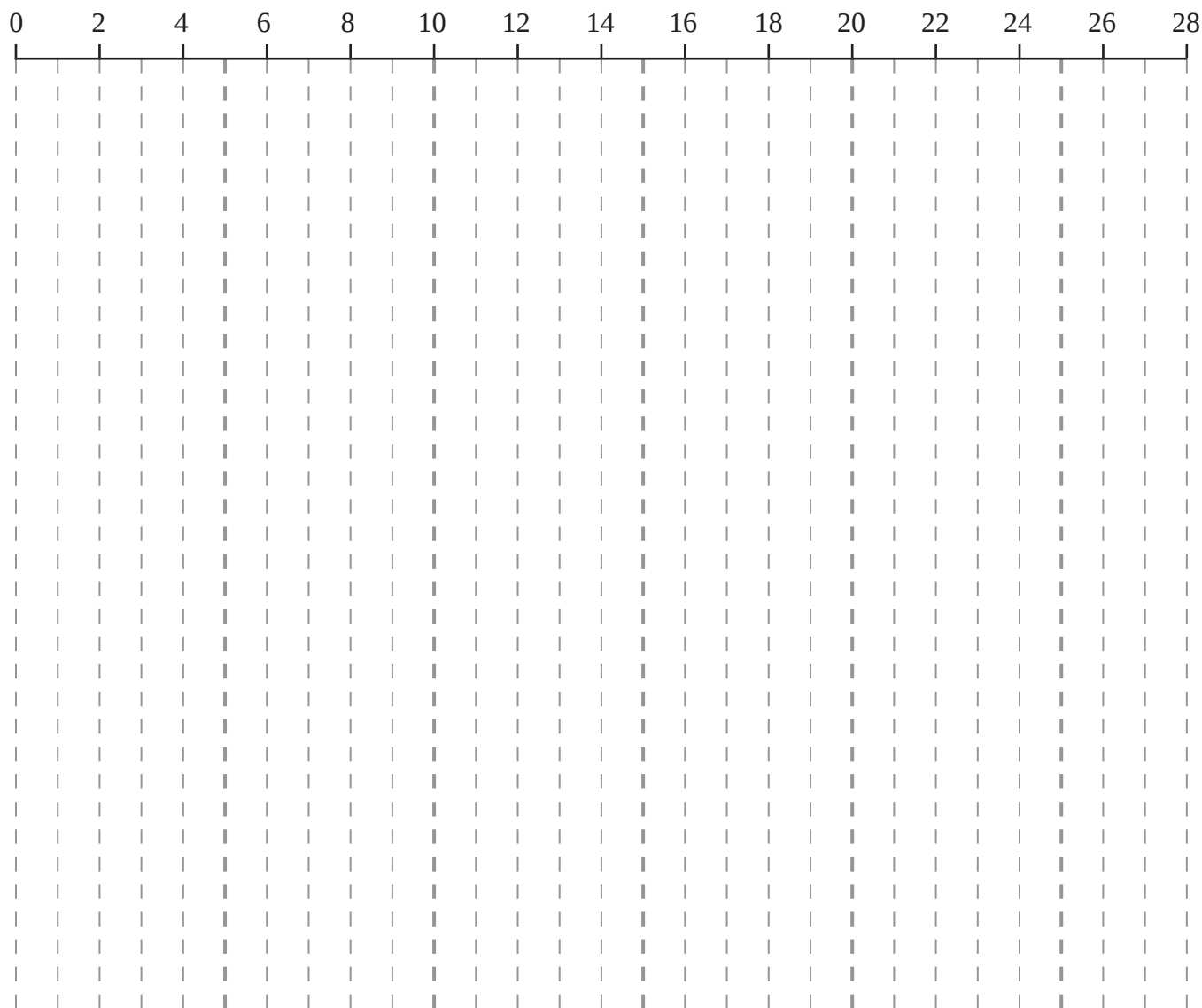


Question 1 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Grid 1

(Total for Question 1 is 13 marks)



2.

	A	B	C	D	E	F	G	H
A	–	34	29	35	28	30	37	38
B	34	–	32	28	39	40	32	39
C	29	32	–	27	33	39	34	31
D	35	28	27	–	35	38	41	36
E	28	39	33	35	–	36	33	40
F	30	40	39	38	36	–	34	39
G	37	32	34	41	33	34	–	35
H	38	39	31	36	40	39	35	–

DO NOT WRITE IN THIS AREA

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Question 2 continued

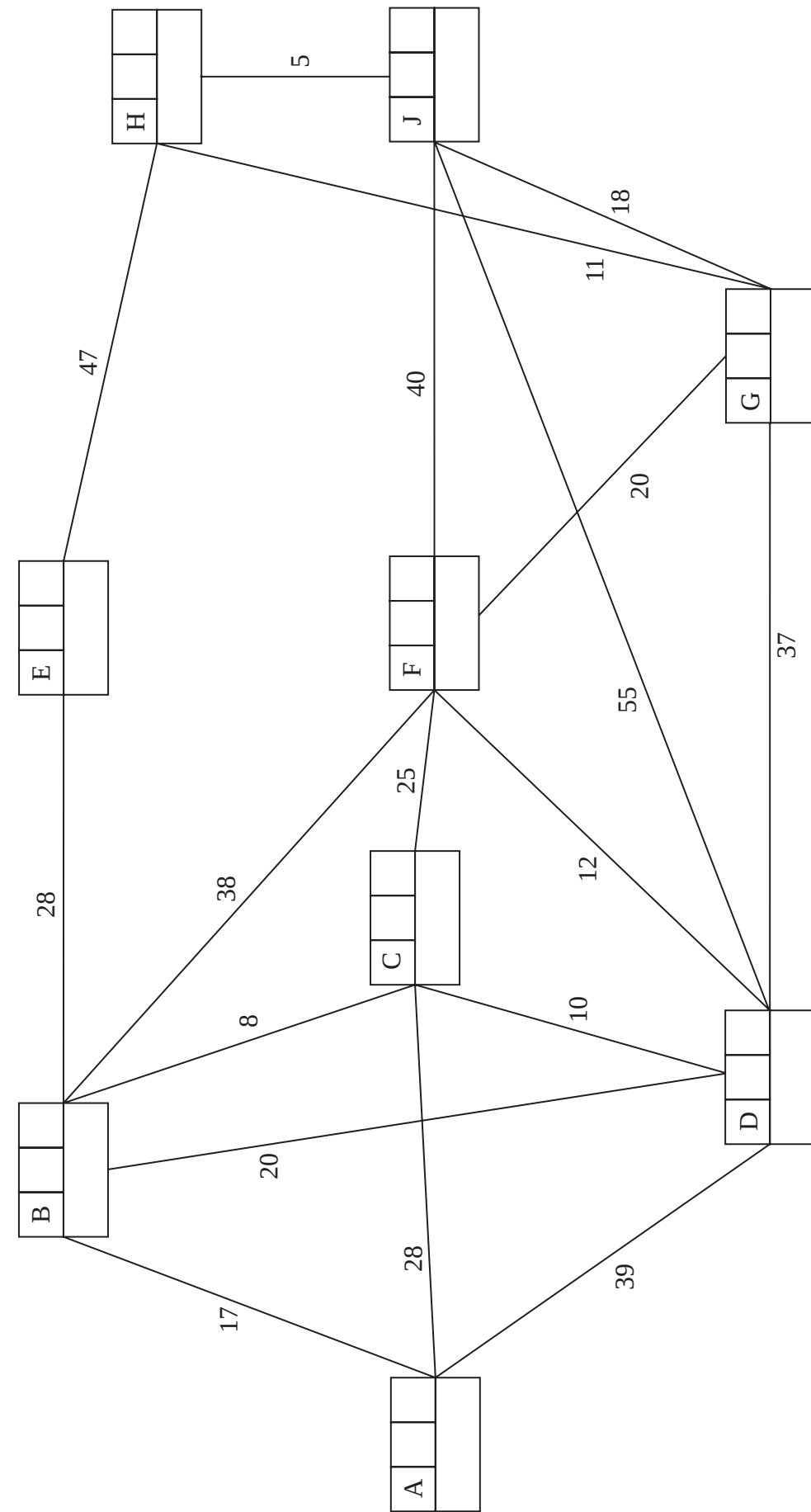
	A	B	C	D	E	F	G	H
A	–	34	29	35	28	30	37	38
B	34	–	32	28	39	40	32	39
C	29	32	–	27	33	39	34	31
D	35	28	27	–	35	38	41	36
E	28	39	33	35	–	36	33	40
F	30	40	39	38	36	–	34	39
G	37	32	34	41	33	34	–	35
H	38	39	31	36	40	39	35	–

(Total for Question 2 is 10 marks)



P 7 3 4 8 1 A 0 5 2 0

3.



Key:

Vertex	Order of labelling	Final value
Working values		

Shortest path from A to J: _____

Length of shortest path from A to J: _____



Question 3 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 3 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

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Question 3 continued

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(Total for Question 3 is 14 marks)

4.

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DO NOT WRITE IN THIS AREA



Question 4 continued

Only use this blank space if you need to redraw your activity network.

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(Total for Question 4 is 7 marks)



5.

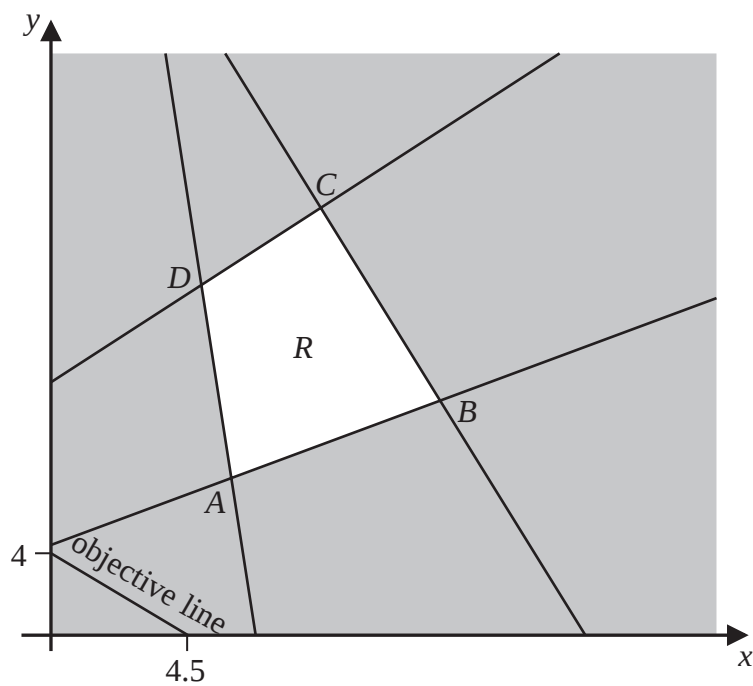


Figure 3

DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA



Question 5 continued

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(Total for Question 5 is 5 marks)

6.

28 31 5 25 16 35 18 22 11 27 15 13

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 6 continued

28 31 5 25 16 35 18 22 11 27 15 13

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 6 is 9 marks)



7.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 7 continued

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DO NOT WRITE IN THIS AREA

Diagram 1 is on page 18

Question 7 continued

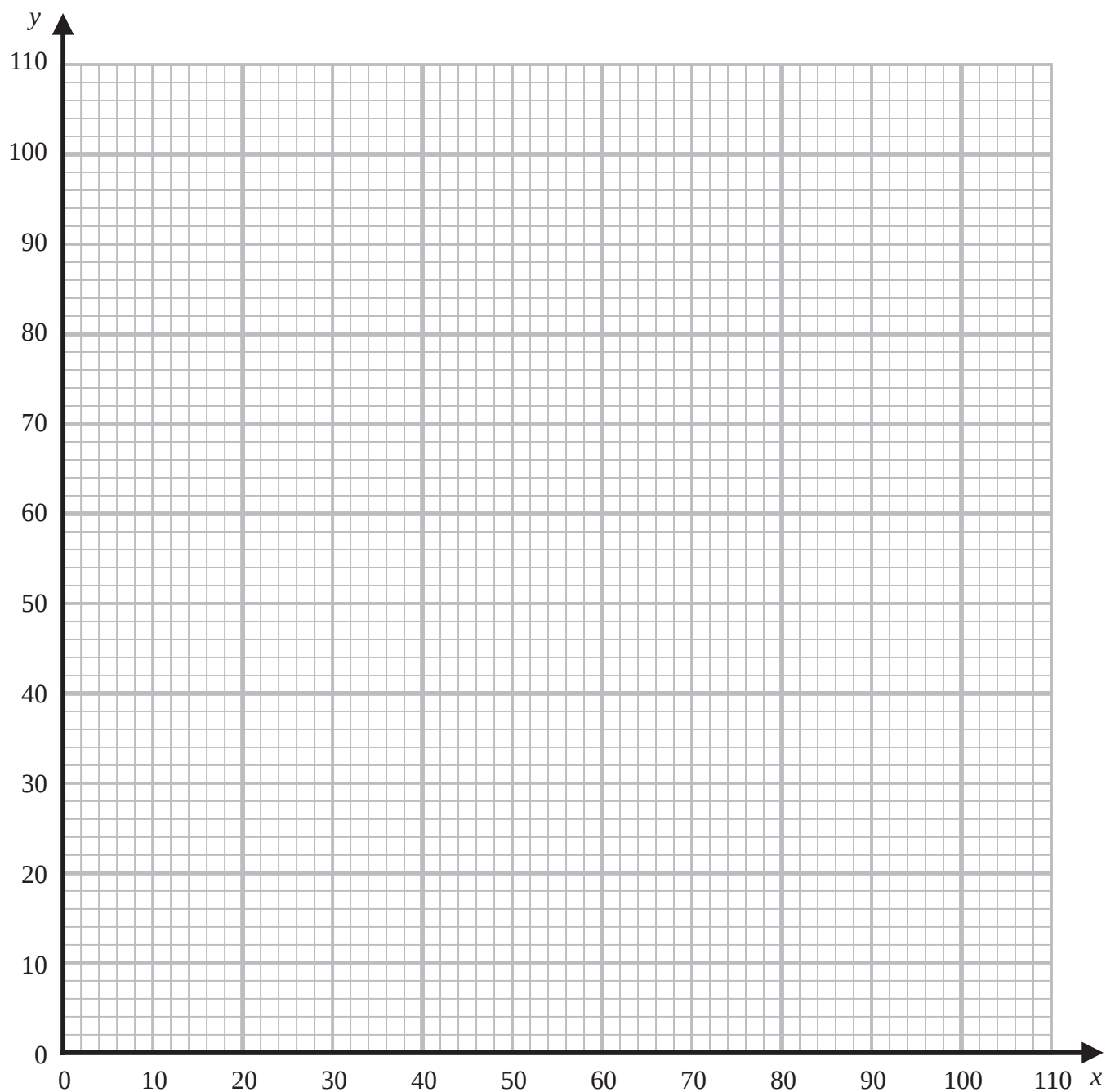


Diagram 1

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 7 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 7 continued

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 7 is 17 marks)**TOTAL FOR PAPER: 75 MARKS**