

Write your name here

Surname

Other names

Pearson Edexcel
Level 3 GCE

Centre Number

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Candidate Number

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Further Mathematics

Advanced

Further Mathematics Option 1

Paper 3: Decision Mathematics 1

Further Mathematics Option 2

Paper 4: Decision Mathematics 1

Sample Assessment Material for first teaching September 2017

Paper Reference

9FM0/3D

9FM0/4D

Answer Book

Do not return the question paper with the answer book.

Total Marks

Turn over ►

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1.

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2.

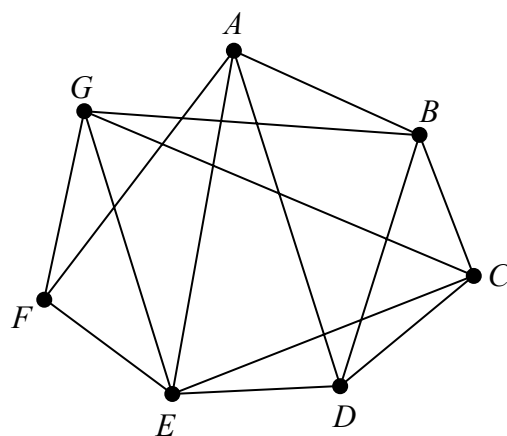
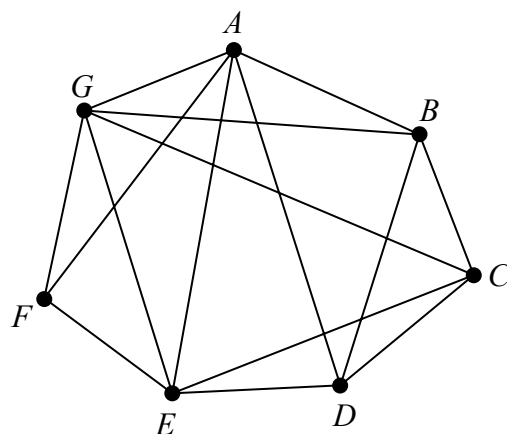


Figure 1

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Question 2 continued**Figure 2****(Total for Question 2 is 7 marks)**

3.

	A	B	C	D	E	F	G
A	–	17	24	16	21	18	41
B	17	–	35	25	30	31	x
C	24	35	–	28	20	35	32
D	16	25	28	–	29	19	45
E	21	30	20	29	–	22	35
F	18	31	35	19	22	–	37
G	41	x	32	45	35	37	–

Question 3 continued

	A	B	C	D	E	F	G
A	–	17	24	16	21	18	41
B	17	–	35	25	30	31	x
C	24	35	–	28	20	35	32
D	16	25	28	–	29	19	45
E	21	30	20	29	–	22	35
F	18	31	35	19	22	–	37
G	41	x	32	45	35	37	–

(Total for Question 3 is 11 marks)

4.

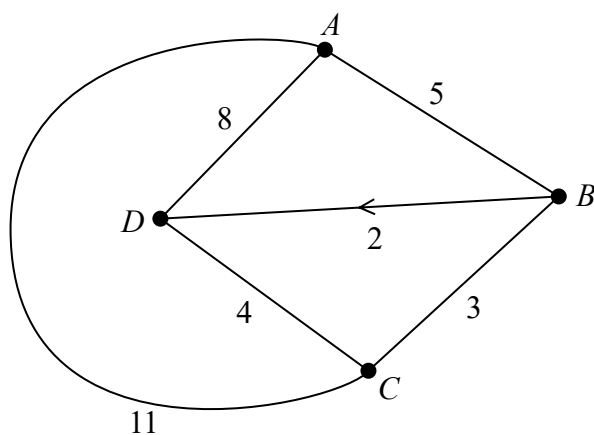


Figure 3

(b)

	A	B	C	D
A	–	5	11	8
B	5	–	3	2
C	11	3	–	4
D	8	∞	4	–

	A	B	C	D
A	A	B	C	D
B	A	B	C	D
C	A	B	C	D
D	A	B	C	D

	A	B	C	D
A				
B				
C				
D				

	A	B	C	D
A				
B				
C				
D				

	A	B	C	D
A				
B				
C				
D				

	A	B	C	D
A				
B				
C				
D				

Question 4 continued

	A	B	C	D
A				
B				
C				
D				

	A	B	C	D
A				
B				
C				
D				

	A	B	C	D
A				
B				
C				
D				

	A	B	C	D
A				
B				
C				
D				

(Total for Question 4 is 14 marks)

5.

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6.

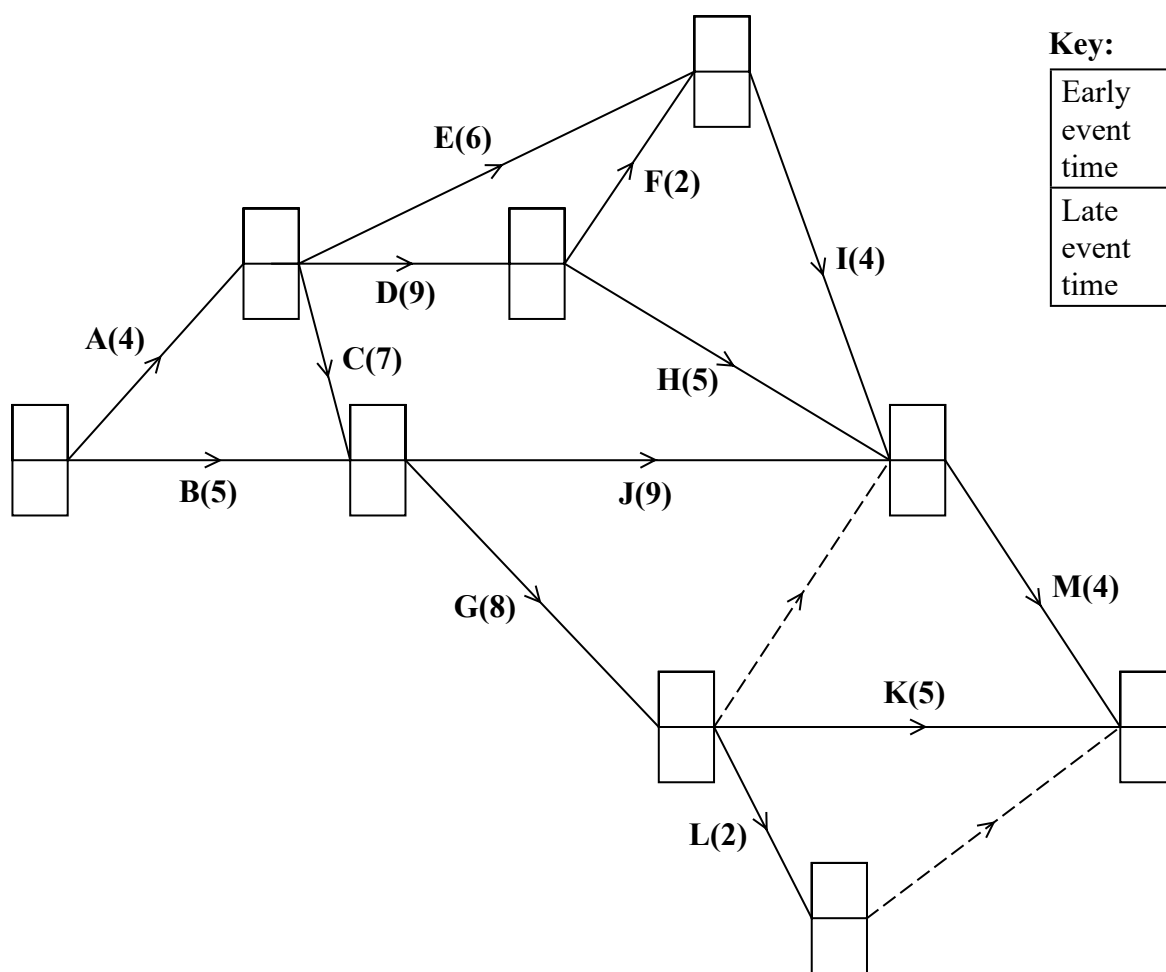


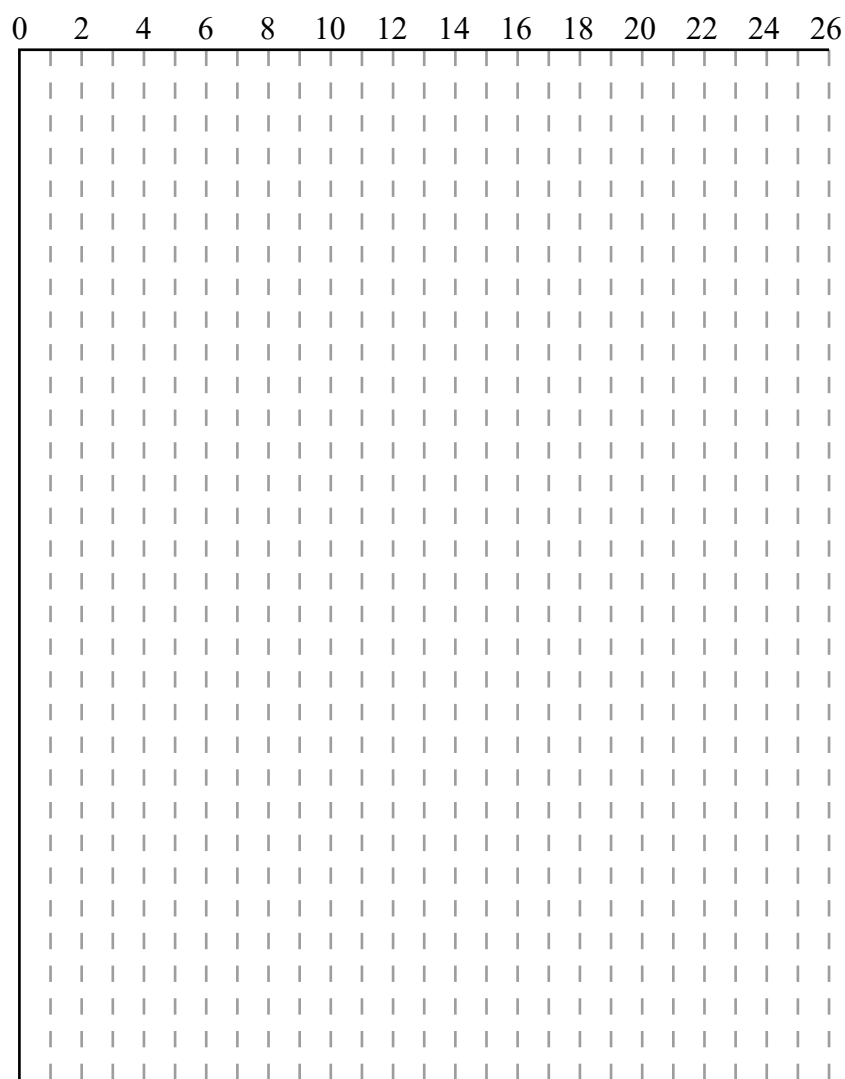
Diagram 1

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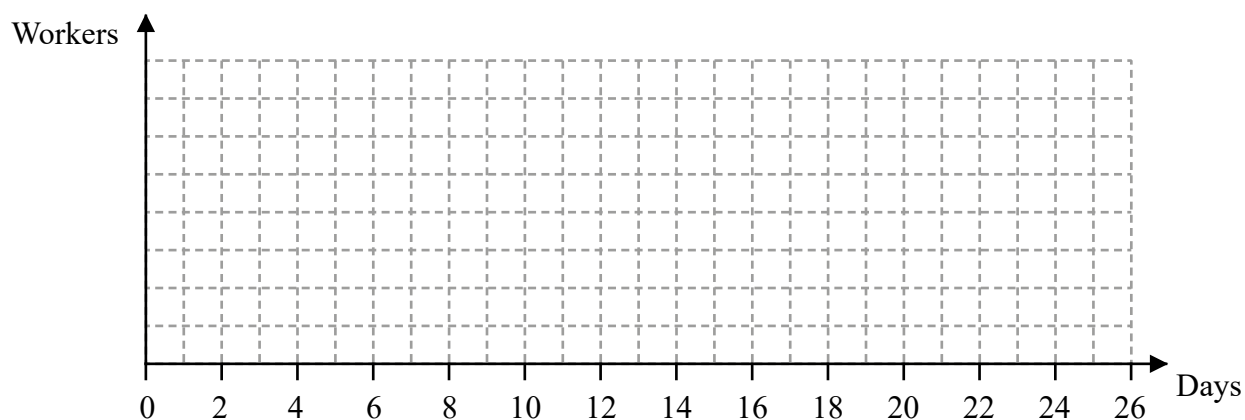
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Question 6 continued



Grid 1

(There is a spare grid on the next page)



Grid 2

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7.

b.v.	x	y	z	s_1	s_2	s_3	t_1	Value
s_1	0	2	1	1	0	2	-2	19
s_2	0	4	0	0	1	1	-1	12
x	1	0	0	0	0	-1	1	3
P	0	-2	-2	0	0	-3	$3 + M$	9

b.v.	x	y	z	s_1	s_2	s_3	t_1	Value	Row Ops
P									

b.v.	x	y	z	s_1	s_2	s_3	t_1	Value	Row Ops
P									

Question 7 continued

b.v.	x	y	z	s_1	s_2	s_3	t_1	Value	Row Ops
P									

b.v.	x	y	z	s_1	s_2	s_3	t_1	Value	Row Ops
P									

(Total for Question 7 is 12 marks)**TOTAL FOR PAPER IS 75 MARKS**