

**Friday 24 May 2013 – Morning**

**AS GCE MATHEMATICS**

**4736/01** Decision Mathematics 1

**PRINTED ANSWER BOOK**

Candidates answer on this Printed Answer Book.

**OCR supplied materials:**

- Question Paper 4736/01 (inserted)
- List of Formulae (MF1)

**Other materials required:**

- Scientific or graphical calculator

**Duration:** 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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**INSTRUCTIONS TO CANDIDATES**

These instructions are the same on the Printed Answer Book and the Question Paper.

- The Question Paper will be found in the centre of the Printed Answer Book.
- Write your name, centre number and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.
- **Write your answer to each question in the space provided in the Printed Answer Book.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Give non-exact numerical answers correct to 3 significant figures unless a different degree of accuracy is specified in the question or is clearly appropriate.

**INFORMATION FOR CANDIDATES**

This information is the same on the Printed Answer Book and the Question Paper.

- The number of marks is given in brackets [ ] at the end of each question or part question on the Question Paper.
- **You are reminded of the need for clear presentation in your answers.**
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **12** pages. The Question Paper consists of **8** pages. Any blank pages are indicated.

<b>1 (i)</b>	
<b>1 (ii)</b>	
<b>1 (iii)</b>	



<b>2 (ii)(b)</b>	<p>• • • •</p> <p>• • • •</p>
<b>2 (ii)(c)</b>	<p>• • • •</p> <p>• • • •</p>

**3 (i)**

Step	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>M</i>

There is a spare copy of the table on page 6.

**3 (ii)**

Step	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>M</i>

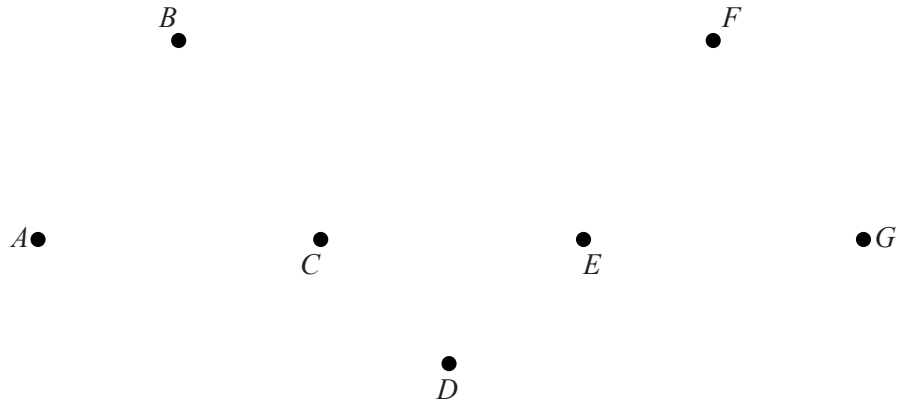
3 (iii)

Spare copy of table for question 3(i)

Step	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>M</i>

4 (i)

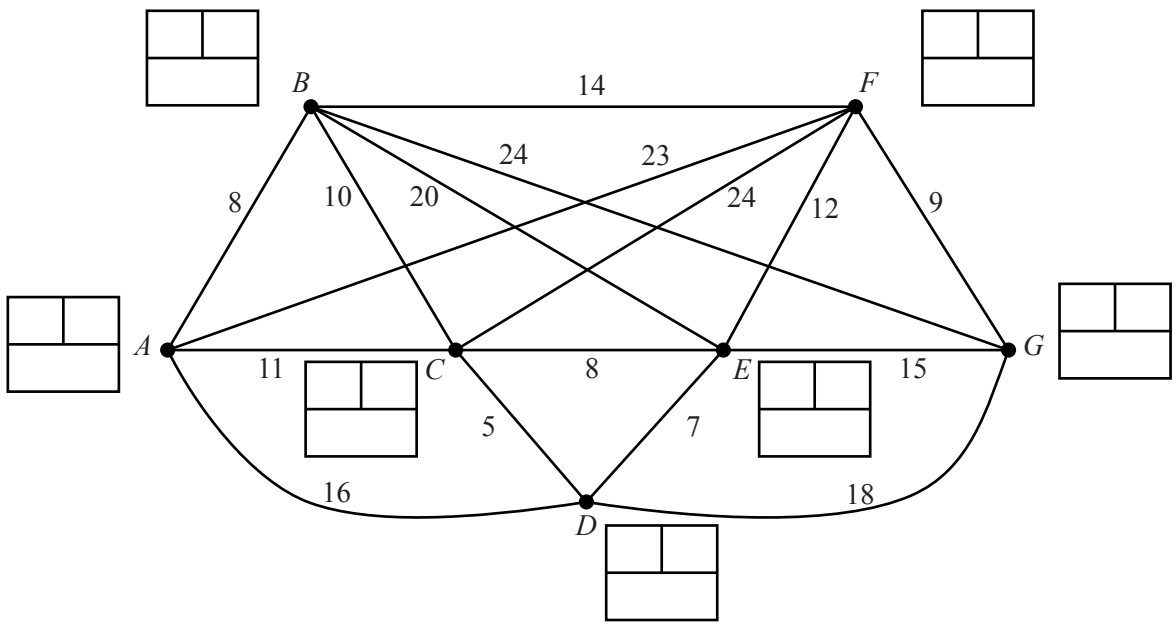
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 $DE = 7$   
 $AB = 8$   
 $CE = 8$   
 $FG = 9$   
 $BC = 10$   
 $AC = 11$   
 $EF = 12$   
 $BF = 14$   
 $EG = 15$   
 $AD = 16$   
 $DG = 18$   
 $BE = 20$   
 $AF = 23$   
 $BG = 24$   
 $CF = 24$



4 (ii)

4 (iii)

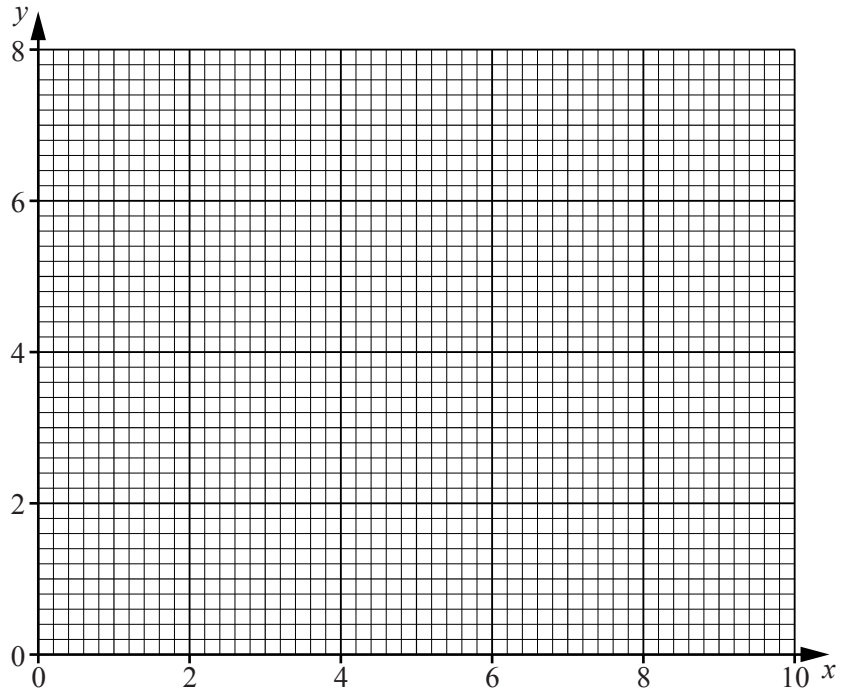

5 (i)






<b>5 (ii)</b>	
<b>5 (iii)</b>	
<b>5 (iv)</b>	

6 (i)



There is a spare copy of the grid on page 12.

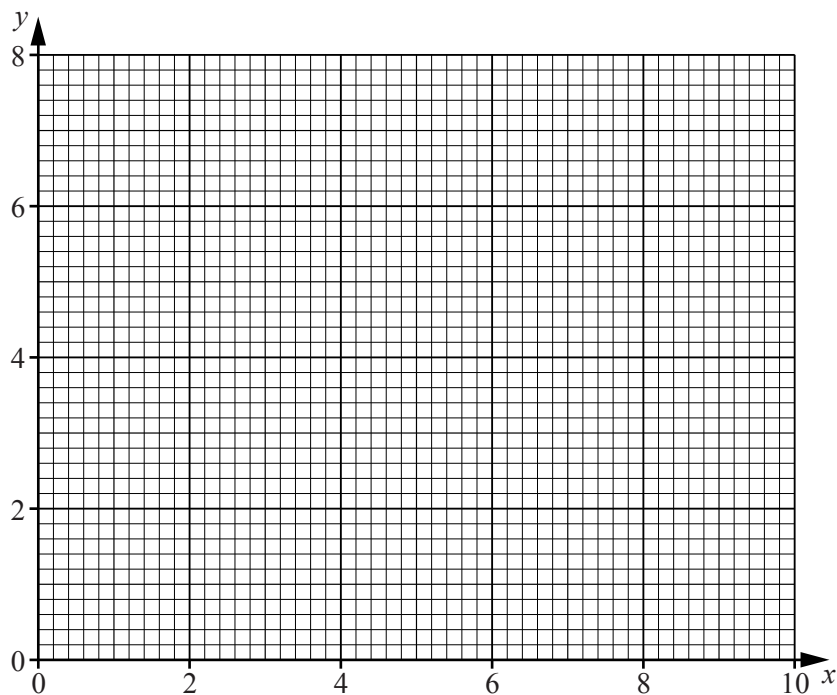
6 (ii)


6 (iii)




6 (vi)	continued

Spare copy of grid for Question 6(i)



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