

Friday 17 May 2013 – Morning

A2 GCE MATHEMATICS

4737/01 Decision Mathematics 2

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4737/01 (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 **16** pages. The Question Paper consists of **8** pages. Any blank pages are indicated.

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1 (i)	<p><i>A</i> ● ● 1</p> <p><i>B</i> ● ● 2</p> <p><i>C</i> ● ● 3</p> <p><i>D</i> ● ● 4</p> <p><i>E</i> ● ● 5</p> <p><i>F</i> ● ● 6</p>
1 (ii)	<p><i>A</i> ● ● 1</p> <p><i>B</i> ● ● 2</p> <p><i>C</i> ● ● 3</p> <p><i>D</i> ● ● 4</p> <p><i>E</i> ● ● 5</p> <p><i>F</i> ● ● 6</p> <hr/> <hr/> <hr/> <hr/> <hr/>
1 (iii)	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

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3 (iv)

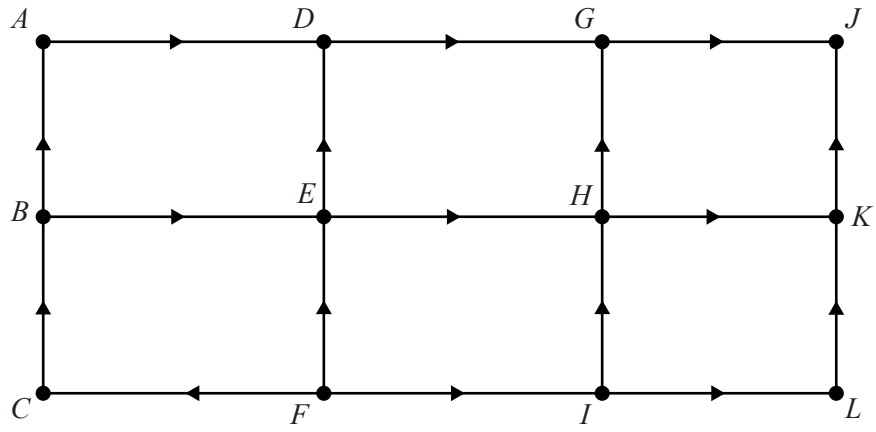
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Molly											
Friend 1											
Friend 2											

3 (v)

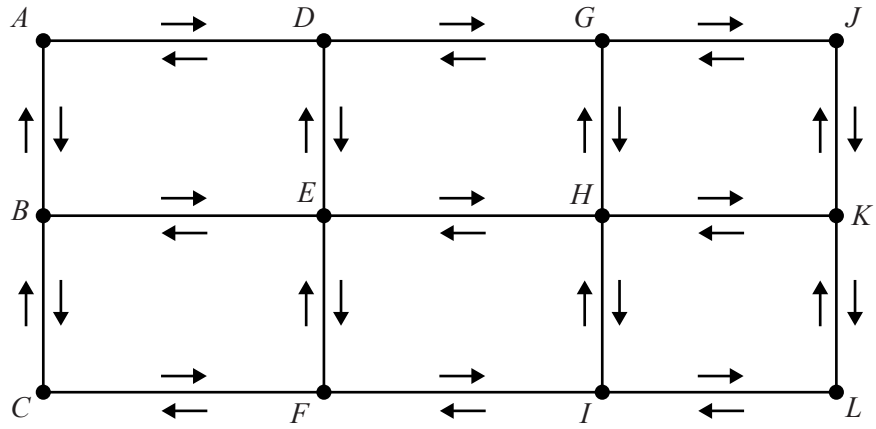
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Friend											

4 (i)	
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4 (v)



5 (i)	
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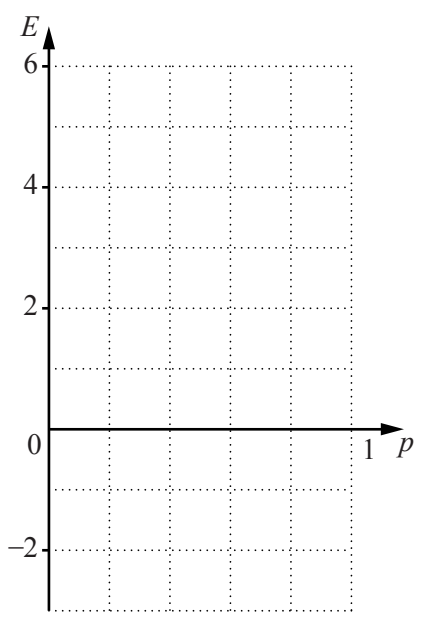
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5 (ii)	(continued)

5 (iii)	

6 (i)																																	
6 (ii)	<div style="text-align: right; margin-bottom: 10px;">For reference:</div> <table style="display: inline-table; margin-right: 20px; border-collapse: collapse;"> <thead> <tr> <th style="border-bottom: 1px solid black; border-right: 1px solid black;"></th> <th style="border-bottom: 1px solid black; border-right: 1px solid black;">Jeff</th> <th style="border-bottom: 1px solid black; border-right: 1px solid black;">Kathy</th> <th style="border-bottom: 1px solid black;">Leo</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black;">Greg</td> <td style="border-right: 1px solid black;"></td> <td style="border-right: 1px solid black;"></td> <td></td> </tr> <tr> <td style="border-right: 1px solid black;">Hakkim</td> <td style="border-right: 1px solid black;"></td> <td style="border-right: 1px solid black;"></td> <td></td> </tr> <tr> <td style="border-right: 1px solid black;">Iona</td> <td style="border-right: 1px solid black;"></td> <td style="border-right: 1px solid black;"></td> <td></td> </tr> </tbody> </table> <table style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th style="border-bottom: 1px solid black; border-right: 1px solid black;"></th> <th style="border-bottom: 1px solid black; border-right: 1px solid black;">Jeff</th> <th style="border-bottom: 1px solid black; border-right: 1px solid black;">Kathy</th> <th style="border-bottom: 1px solid black;">Leo</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black;">Greg</td> <td style="border-right: 1px solid black; text-align: center;">2</td> <td style="border-right: 1px solid black; text-align: center;">3</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="border-right: 1px solid black;">Hakkim</td> <td style="border-right: 1px solid black; text-align: center;">4</td> <td style="border-right: 1px solid black; text-align: center;">3</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="border-right: 1px solid black;">Iona</td> <td style="border-right: 1px solid black; text-align: center;">1</td> <td style="border-right: 1px solid black; text-align: center;">0</td> <td style="text-align: center;">3</td> </tr> </tbody> </table>		Jeff	Kathy	Leo	Greg				Hakkim				Iona					Jeff	Kathy	Leo	Greg	2	3	4	Hakkim	4	3	1	Iona	1	0	3
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