

Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
ADVANCED SUBSIDIARY GCE**

4771

MATHEMATICS (MEI)

Decision Mathematics 1

PRINTED ANSWER BOOK

TUESDAY 22 JUNE 2010: Afternoon

DURATION: 1 hour 30 minutes

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the Printed Answer Book

OCR SUPPLIED MATERIALS:

Question Paper 4771 (inserted)

MEI Examination Formulae and Tables (MF2)

OTHER MATERIALS REQUIRED:

Scientific or graphical calculator

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

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

- **Write your name clearly in capital letters, your Centre Number and Candidate Number in the spaces provided on the Printed Answer Book.**
- **THE QUESTIONS ARE ON THE INSERTED QUESTION PAPER.**
- **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. Pencil may be used for graphs and diagrams only.**
- **Read each question carefully and make sure that you know what you have to do before starting your answer.**
- **Answer ALL the questions.**
- **You are permitted to use a graphical calculator in this paper.**
- **Final answers should be given to a degree of accuracy appropriate to the context.**

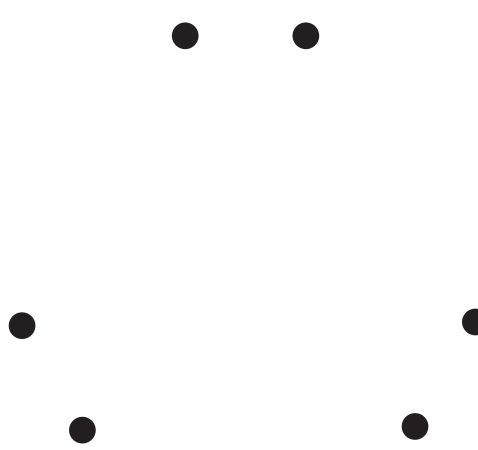
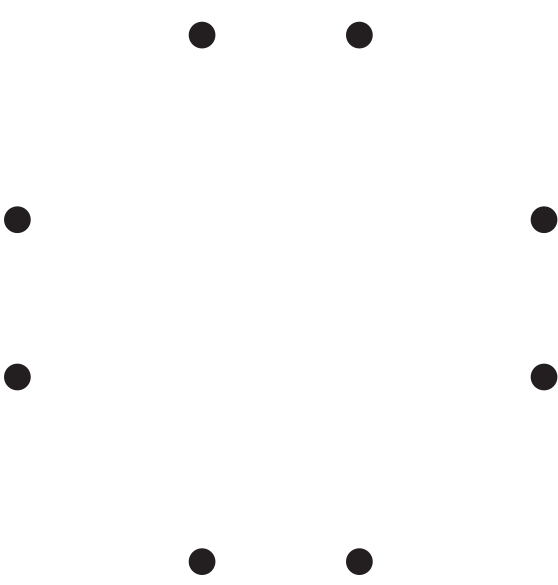
INFORMATION FOR CANDIDATES

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 advised that an answer may receive NO MARKS unless you show sufficient detail of the working to indicate that a correct method is being used.**
- **The total number of marks for this paper is 72.**

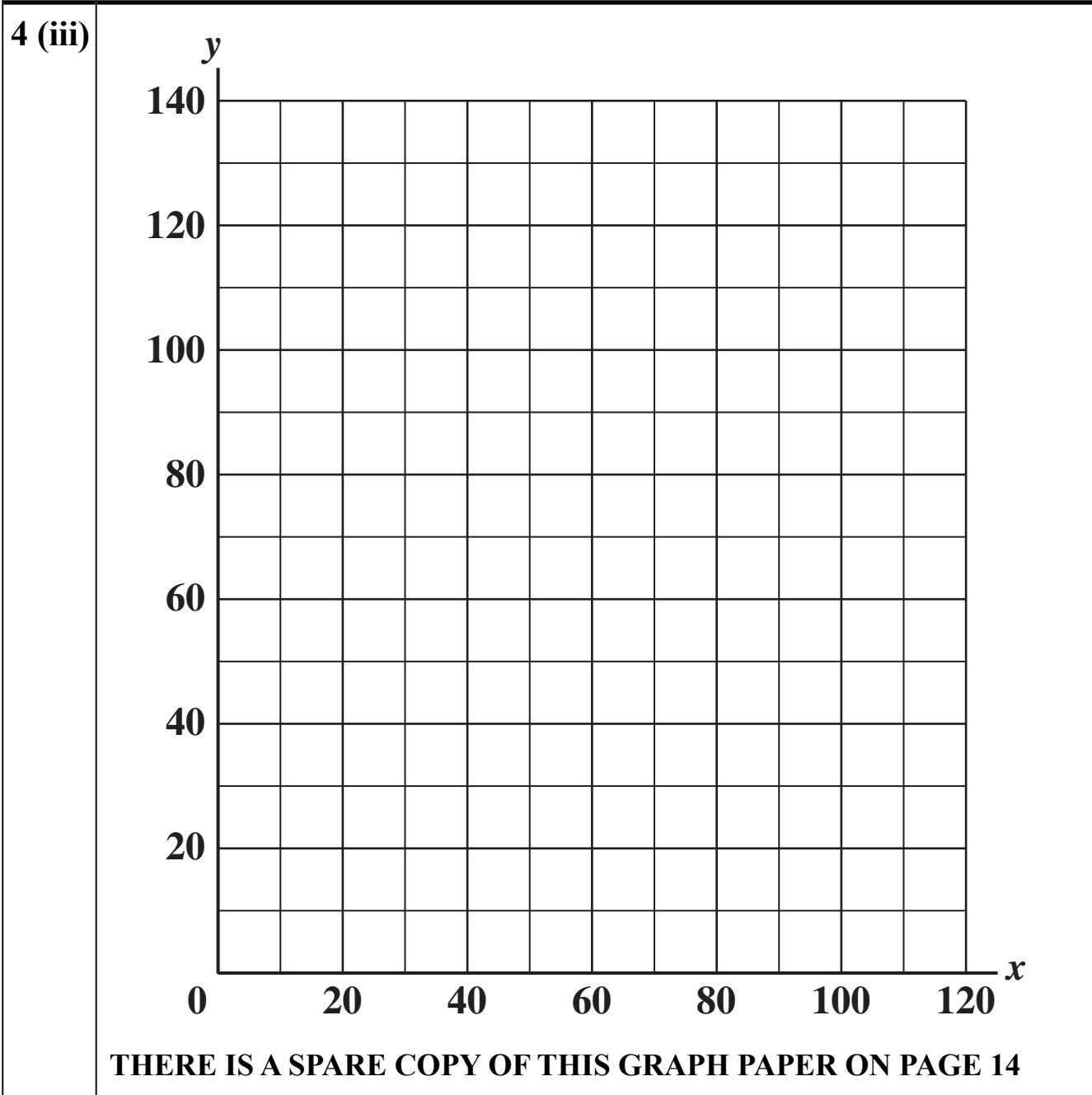
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2 (i)	Left-hand number	Right-hand number
		Result =
2 (ii)	Left-hand number	Right-hand number
		Result =
2 (iii)		

3 (i)										
3 (ii)										
3 (iii)	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>									

4 (i)

4 (ii)

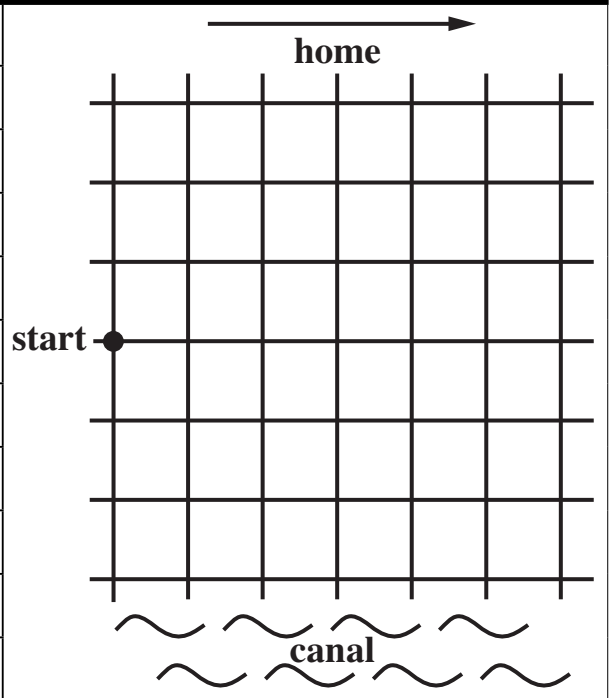


4 (iii) cont	

4 (iv)	

5 (i)	

5 (ii)	Random digits:
	9 1 4 8 0 2



5 (iii)	

5 (iv)	

5 (v)

Random digits:

run 1	4	2	7	2	0	4	5	3	9	7
-------	---	---	---	---	---	---	---	---	---	---

run 1										
-------	--	--	--	--	--	--	--	--	--	--

run 2	6	9	2	9	3	5	0	5	4	1
-------	---	---	---	---	---	---	---	---	---	---

run 2										
-------	--	--	--	--	--	--	--	--	--	--

run 3	7	4	1	2	1	2	1	8	6	8
-------	---	---	---	---	---	---	---	---	---	---

run 3										
-------	--	--	--	--	--	--	--	--	--	--

run 4	1	0	4	0	3	8	0	4	9	2
-------	---	---	---	---	---	---	---	---	---	---

run 4										
-------	--	--	--	--	--	--	--	--	--	--

run 5	5	6	6	7	7	6	0	1	2	9
-------	---	---	---	---	---	---	---	---	---	---

run 5										
-------	--	--	--	--	--	--	--	--	--	--

run 6	1	3	3	9	6	9	6	3	8	5
-------	---	---	---	---	---	---	---	---	---	---

run 6										
-------	--	--	--	--	--	--	--	--	--	--

run 7	5	8	1	5	4	5	0	2	7	6
-------	---	---	---	---	---	---	---	---	---	---

run 7										
-------	--	--	--	--	--	--	--	--	--	--

run 8	7	6	0	8	5	6	2	9	0	0
-------	---	---	---	---	---	---	---	---	---	---

run 8										
-------	--	--	--	--	--	--	--	--	--	--

run 9	4	9	8	9	6	7	4	2	0	8
-------	---	---	---	---	---	---	---	---	---	---

run 9										
-------	--	--	--	--	--	--	--	--	--	--

run 10	1	4	5	2	6	6	1	5	9	8
--------	---	---	---	---	---	---	---	---	---	---

run 10										
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Estimate of probability =

**6 (i)
&
(ii)**

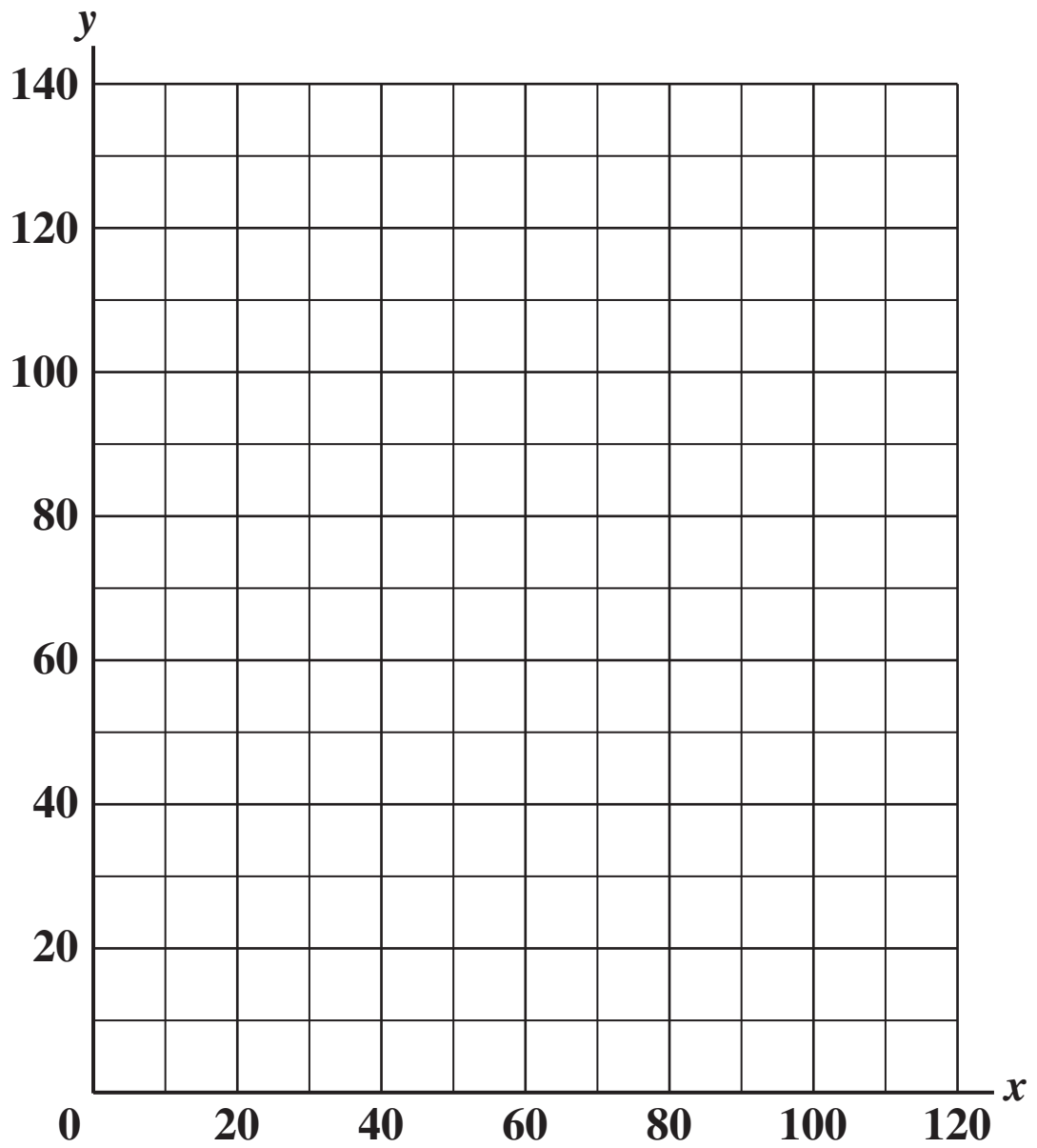
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Project duration: _____

Critical activities: _____

6 (iii)	
6 (iv)	

SPARE GRAPH PAPER FOR QUESTION 4(iii)



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