

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use
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General Certificate of Secondary Education  
June 2008



**MATHEMATICS (MODULAR) (SPECIFICATION B)**  
**Module 1 Foundation Tier Section A**  
**Non-coursework Specification**

**43051/FA**  
**F**

Thursday 12 June 2008 1.30 pm to 2.00 pm

<p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>• a calculator</li> <li>• mathematical instruments</li> <li>• a treasury tag.</li> </ul>	
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For Examiner's Use			
Section A		Section B	
Question	Mark	Question	Mark
1		5	
2		6	
3		7	
4		8	
Total Section A			
Total Section B			
TOTAL			
Examiner's Initials			

Time allowed for Section A: 30 minutes

**Instructions**

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Answers written in margins will not be marked.
- Use a calculator where appropriate.
- Do all rough work in this book.
- This paper is divided into two sections: Section A and Section B.
- After the 30 minutes allowed for Section A, you must put your calculator on the floor under your seat. You will then be given Section B.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination tag Section A and Section B together with Section A on top.

**Information**

- The maximum mark for Section A is 23.
- The marks for questions are shown in brackets.
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer book.

**Advice**

- In all calculations, show clearly how you work out your answer.



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
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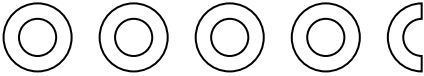
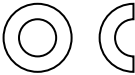
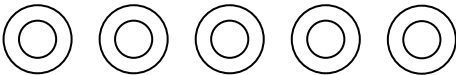
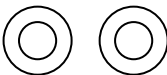
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Answer **all** questions in the spaces provided.

1 The incomplete pictogram shows the number of computer games owned by some friends.

Key  represents 10 games

<b>Mike</b>	
<b>Shuban</b>	
<b>Will</b>	
<b>Ali</b>	
<b>Chris</b>	

1 (a) How many computer games does Shuban own?

.....

Answer ..... (1 mark)

1 (b) How many more computer games does Will own than Ali?

.....

Answer ..... (2 marks)

1 (c) Chris has 25 computer games.

Complete the pictogram to show this information.

(2 marks)

1 (d) Work out the total number of computer games owned by these five friends.

.....

Answer ..... (2 marks)

Turn over ►



- 2 The mean of four numbers is 5.  
Three of the numbers are 2, 3 and 9.

Work out the fourth number.

.....

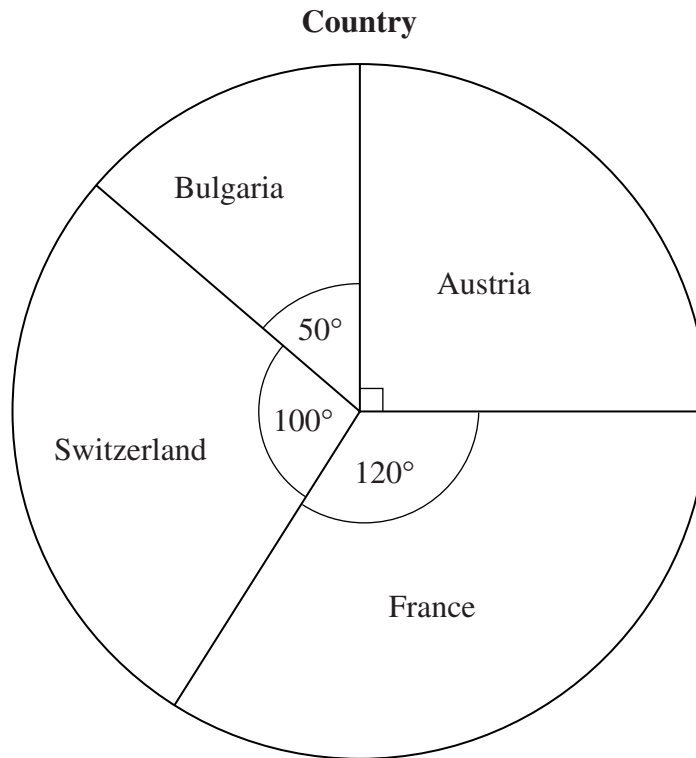
.....

.....

Answer ..... (3 marks)

3
---

- 3 (a) The pie chart shows the favourite country for a skiing holiday for 36 families.



How many families chose Austria?

.....

.....

.....

Answer ..... (2 marks)



3 (b) The table shows the costs of one holiday.

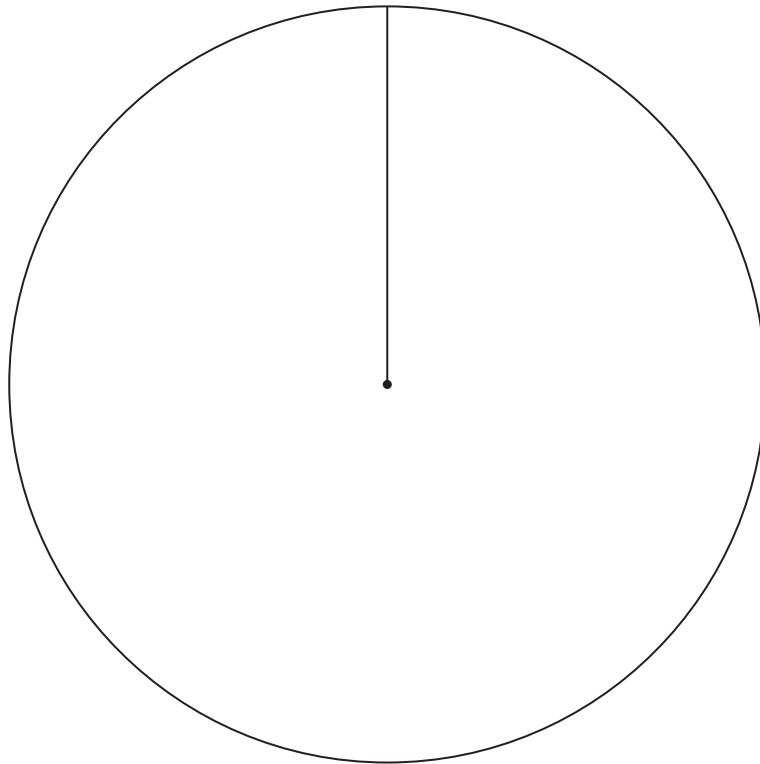
Item	Cost (£)
Flights	480
Hotel	320
Ski pack	600
Other	400
<b>Total</b>	<b>1800</b>

Draw and label a pie chart to represent these costs.

.....

.....

.....



(4 marks)

6

Turn over ►



4 The amounts spent by 50 customers at a shop are shown.

Amount spent, $x$ (£)	Frequency		
$0 < x \leq 10$	18		
$10 < x \leq 20$	13		
$20 < x \leq 30$	12		
$30 < x \leq 40$	7		

4 (a) Work out the probability that a customer chosen at random spent more than £20.

.....

Answer ..... (2 marks)

4 (b) Explain why it is **not** possible to work out the probability that a customer chosen at random spent exactly £8.

.....  
 .....  
 .....

(1 mark)

4 (c) Which class interval contains the median?

.....

Answer .....  $< x \leq$  ..... (1 mark)

4 (d) Use midpoints to calculate an estimate of the mean amount spent at the shop.

.....  
 .....  
 .....  
 .....

Answer £ ..... (3 marks)

**END OF SECTION A**



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General Certificate of Secondary Education  
June 2008



**MATHEMATICS (MODULAR) (SPECIFICATION B)  
Module 1 Foundation Tier Section B  
Non-coursework Specification**

**43051/FB  
F**

Thursday 12 June 2008 2.05 pm to 2.35 pm

<p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>• mathematical instruments.</li> </ul> <p>You must <b>not</b> use a calculator.</p>	
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Time allowed for Section B: 30 minutes

**Instructions**

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Answers written in margins will not be marked.
- Do all rough work in this book.
- You may **not** use your calculator in Section B. Your calculator must remain on the floor under your seat.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination tag Section A and Section B together with Section A on top.

**Information**

- The maximum mark for Section B is 23.
- The marks for questions are shown in brackets.
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer booklet.

**Advice**

- In all calculations, show clearly how you work out your answer.



Answer **all** questions in the spaces provided.

- 5 (a) Toni has ten coloured cards.  
Eight cards are blue and two are red.  
Toni picks a card at random.

Choose a word from this list to describe each of the following events.

impossible      unlikely      evens      likely      certain

- 5 (a) (i) The card picked is blue.

Answer ..... (1 mark)

- 5 (a) (ii) The card picked is yellow.

Answer ..... (1 mark)

- 5 (a) (iii) The card picked is blue or red.

Answer ..... (1 mark)

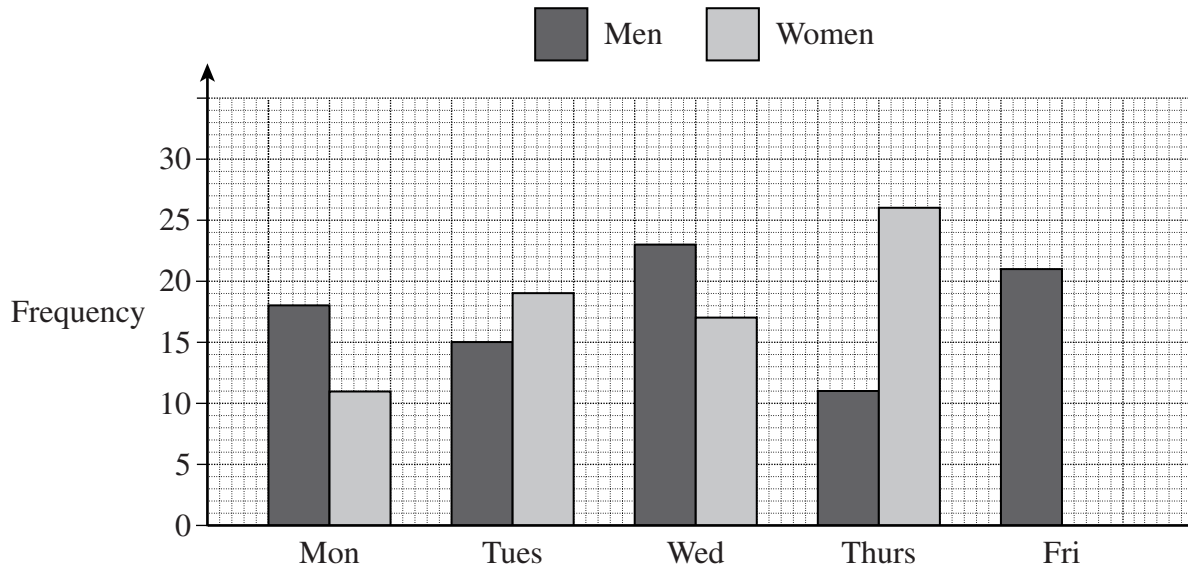
- 5 (b) Jay has a different set of ten coloured cards.  
He has an even chance of picking a blue card.

How many blue cards are there in this set?

Answer ..... (1 mark)



6 The bar chart shows the number of men and women visiting a dentist in one week. The bar for women on Friday is missing.



6 (a) How many women visited the dentist on Tuesday?

Answer ..... (1 mark)

6 (b) How many men and women in total visited the dentist on Monday?

.....

Answer ..... (2 marks)

6 (c) During that week an equal number of men and women visited the dentist.

How many women visited the dentist on Friday?

.....  
.....  
.....  
.....

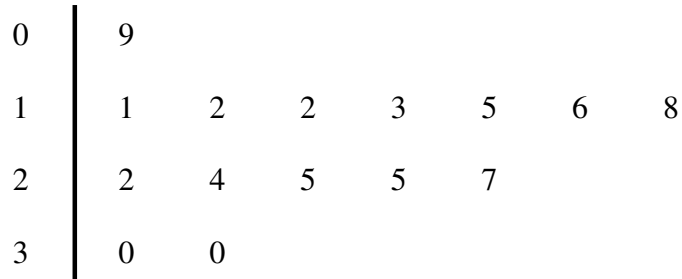
Answer ..... (4 marks)

Turn over ►



- 7 Mr Mitchell gave his pupils a spelling test.  
The stem-and-leaf diagram shows the number of words spelt correctly by each pupil.

Key 1 | 2 represents 12 words



- 7 (a) How many pupils spelt more than 20 words correctly?

.....

Answer ..... (1 mark)

- 7 (b) Work out the range.

.....

Answer ..... (1 mark)

- 7 (c) Find the median.

.....

Answer ..... (1 mark)



- 7 (d) Kieran's result was **not** included in the stem-and-leaf diagram.  
He spelt 23 words correctly.

Tick a box to show how this mark would affect

- 7 (d) (i) the range

Decreases

Stays the same

Increases

(1 mark)

- 7 (d) (ii) the median.

Decreases

Stays the same

Increases

(1 mark)

5
---

**Turn over for the next question**

**Turn over ►**



8 (a) The two-way table shows the number of televisions and radios in 50 households.

		Televisions			
		0	1	2	3
Radios	0	0	3	0	0
	1	2	5	8	3
	2	1	6	12	5
	3	0	0	3	2

8 (a) (i) How many households have two televisions and one radio?

Answer ..... (1 mark)

8 (a) (ii) How many households have two televisions?

.....

Answer ..... (2 marks)

8 (a) (iii) How many households have the same number of televisions as radios?

.....

Answer ..... (2 marks)



8 (b) Louise wanted to find out the number of hours of television watched last Sunday. This is her question and response section.

Question: How many hours of television did you watch last Sunday?

Response: Tick a box

1 to 3 hours

4 to 6 hours

6 to 8 hours

more than 8 hours

Write down **two** criticisms of the response section.

Criticism 1 .....  
.....  
(1 mark)

Criticism 2 .....  
.....  
(1 mark)

**END OF QUESTIONS**

7



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