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Centre Number						Candidate Number					
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For Examiner's Use

General Certificate of Secondary Education
June 2008



MATHEMATICS (MODULAR) (SPECIFICATION B)
Module 1 Foundation Tier Section A

43001/FA
F

Thursday 12 June 2008 1.30 pm to 1.55 pm

<p>For this paper you must have:</p> <ul style="list-style-type: none"> • a calculator • mathematical instruments • a treasury tag. 	
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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: 25 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 25 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 20.
- 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.



J U N 0 8 4 3 0 0 1 F A 0 1


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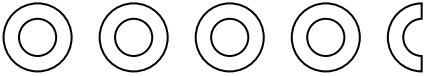
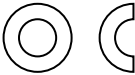
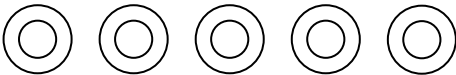
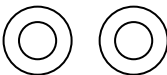
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ANSWER IN THE SPACES PROVIDED**



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

Mike	
Shuban	
Will	
Ali	
Chris	

- 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)

5

Turn over ►



2 Here are ten numbers.

30 21 32 19 26 20 22 18 40 22

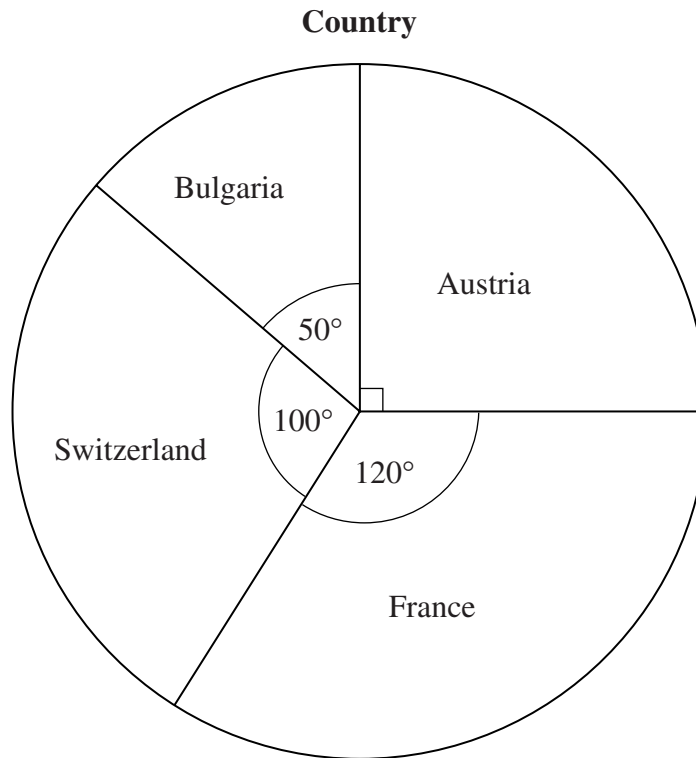
Calculate the mean of these numbers.

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

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.

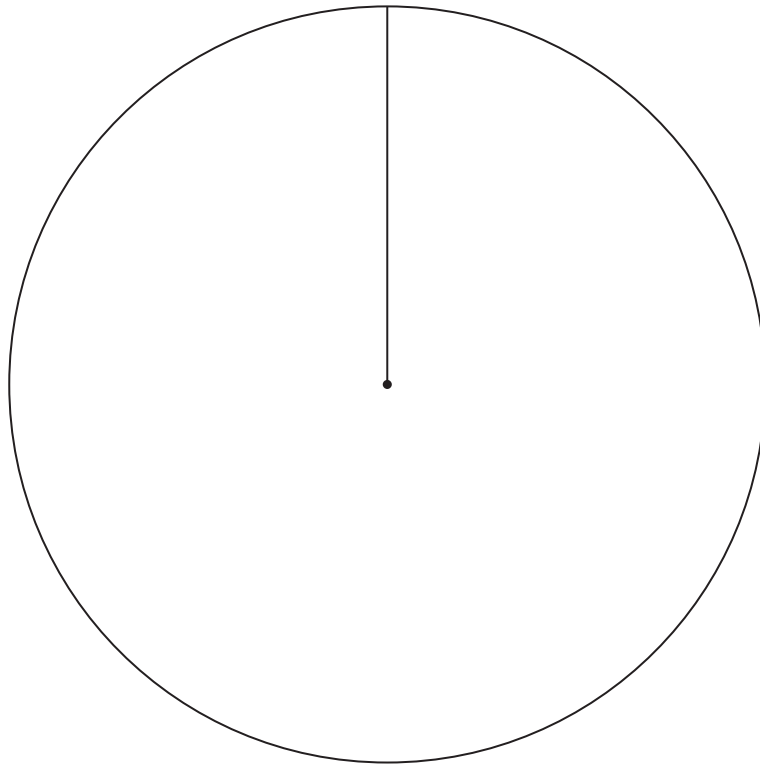
Item	Cost (£)
Flights	480
Hotel	320
Ski pack	600
Other	400
Total	1800

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

.....

Answer £ (3 marks)

6

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

43001/FB
F

Thursday 12 June 2008 2.00 pm to 2.25 pm

<p>For this paper you must have:</p> <ul style="list-style-type: none"> mathematical instruments. <p>You must not use a calculator.</p>	
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Time allowed for Section B: 25 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 20.
- 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.



J U N 0 8 4 3 0 0 1 F B 0 1

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

- 5 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) The card picked is blue.

Answer (1 mark)

- 5 (b) The card picked is yellow.

Answer (1 mark)

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

Answer (1 mark)

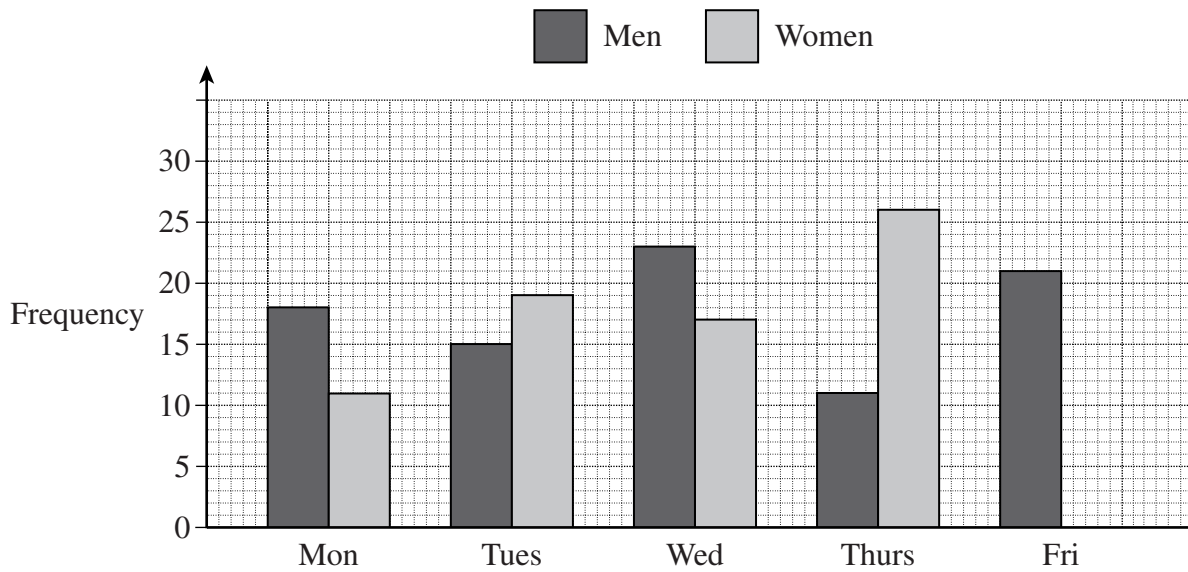
3

Turn over for the next question

Turn over ►



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?

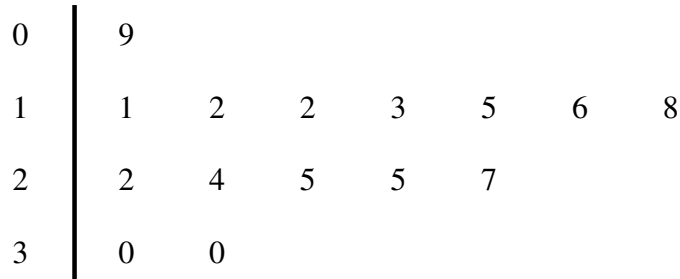
.....

Answer (4 marks)



- 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) Work out the range.

.....

Answer (1 mark)

- 7 (b) Find the median.

.....

Answer (1 mark)

- 7 (c) 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 (c) (i) the range

Decreases

Stays the same

Increases

(1 mark)

- 7 (c) (ii) the median.

Decreases

Stays the same

Increases

(1 mark)

4

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?

.....

Answer (2 marks)

- 8** (a) (ii) 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)

6

END OF QUESTIONS



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