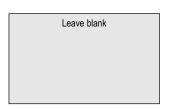
Surname					Other	Names			
Centre Nur	mber					Candida	ate Number		
Candidate	Signati	ure							



General Certificate of Secondary Education June 2004

ASSESSMENT and QUALIFICATIONS

MATHEMATICS (MODULAR) (SPECIFICATION B) 33001/FA Module 1 Foundation Tier Section A

Thursday 17 June 2004 1.30 pm to 1.55 pm



In addition to this paper you will require:

- · a calculator
- · mathematical instruments
- · a treasury tag.



Time allowed for Section A: 25 minutes

Instructions

- Use blue or black ink or ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions in the spaces provided.
- Do all rough work in this booklet.
- 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.
- Mark allocations are shown in brackets.
- Additional answer paper and graph paper will be issued on request and must be tagged securely to this answer booklet.
- You are expected to use a calculator where appropriate.

Advice

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

For Examiner's Use						
Secti	on A	Section B				
Number	Mark	Numb	oer	Mark		
1		6				
2	7					
3		8				
4		9				
5						
Total Sect	Total Section A					
Total Sect						
TOTAL						
Examiner'	Examiner's Initials					

Answer all questions in the spaces provided.

The	The number of aircraft landing at an airport each hour is shown below.										
	2	3	8	5	6	10	4	9	4	11	4
(a)	Find	the me	dian o	f these	numbe	ers.					
(1)											. (2 marks)
(b)	Write	e down	the m		•••••	numbers		••••••			
(c)	Work	c out th	ne rang	ge of the	ese nui	mbers.					
	••••••		•	Answe	er						. (1 mark)
(d)	Calcu	ulate th	ie mea	n of the	ese nur	nbers.					
	••••••		•••••		•••••					•••••	
				Answe	er	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	. <i>(3 marks)</i>



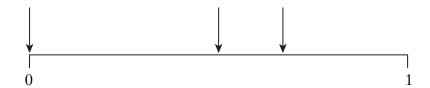
1

2 A fair six-sided dice is thrown once.



The probabilities of the following events have been marked on the probability scale below.

- A: An even number is thrown.
- B: A '7' is thrown.
- C: A number less than 5 is thrown.



Label each arrow with the letter to show which event it represents.

(3 marks)

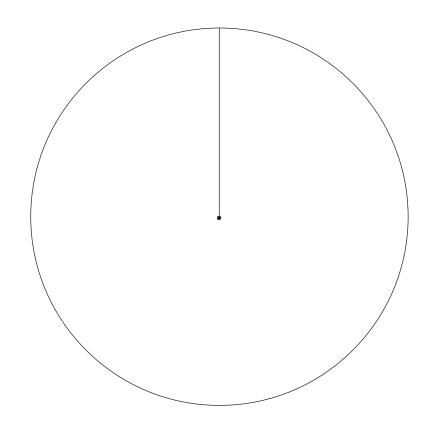


TURN OVER FOR THE NEXT QUESTION

3 The table shows the type of heating used in 80 houses.

Type of heating	Number of houses
Gas	36
Electricity	30
Oil	10
Coal	4

Draw and label a pie	cnart to represent th	is information.		
				•••••
•••••		••••••	•••••	•••••



(4 marks)



4	The stem and leaf	diagram shows	the number	of miles	travelled	by a	salesman	each	day
	for 14 days.								

Key 5 2 represents 52 miles

On how many days did the salesman travel between 25 a	and 50 miles?
Δ newer	(2 marks)



TURN OVER FOR THE NEXT QUESTION

5 A biased spinner has sections numbered 1, 2, 3, 4 and 5. The table shows the probabilities of the spinner landing on some of the numbers.

Number	1	2	3	4	5
Probability	0.04		0.43	0.23	0.12

(a)	Calculate the missing probability in the table.	
	Answer	(2 marks)
(b)	Calculate the probability that the spinner lands on a number greater that	an 2.
		••••••
	Answer	(2 marks)



END OF SECTION A

THERE ARE NO QUESTIONS PRINTED ON THIS PAGE

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