Surname				Other Names						
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Candidate Signature	Э									

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43051/FA

AQA

General Certificate of Secondary Education November 2009

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

Friday 13 November 2009 1.30 pm to 2.00 pm

For this paper you must have:

- a calculator
- mathematical instruments
- a treasury tag.

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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1	(c)	Keann counted the number of vehicles that passed her house during the same hour. She drew a pictogram to show her results.					
		Key:	represents 4 vehicles				
		Car	$\Box \Box $				
		Van	$\bigcirc \bigcirc \bigcirc \bigcirc$				
		Bus					
		Lorry	$\bigcirc \bigcirc$				
1	(d)	How many cars did Keann count? 					
		yes	no				
			(3 marks)				





2		spital manager are his results.	asks 11 pe	eople how n	nany week	ts they had	to wait for a	an operation.
			5 4	4 17	14	17	15	
		2	4 1	1 8	17	11		
2	(a)	How many peo	ple waite	d more thar	n ten week	s?		
			Answ	er				(1 mark)
2	(b)	Write down the	e mode.					
			Δnsw	er				weeks (1 mark)
•		XX7 1 4 41		U	•••••	•••••		weeks (1 mark)
2	(c)	Work out the r	ange.					
			•••••	•••••	•••••			
			Answ	er		•••••		weeks (1 mark)
2	(d)	Calculate the r	nean.					
					••••••			
								weeks (3 marks)
2								· · · · ·
2	(e)	The hospital m			I to show	une average	waiting tim	le.
		Give a reason :	for his cho	bice.				
			•••••	•••••	•••••			
					••••••			
								(1 mark)



7



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Areas outside

the box will

5

4 Fifty children were asked how long it took them to walk to school one morning. The results are shown in the table.

Time, t (minutes)	Number of children
$0 < t \leq 5$	2
$5 < t \le 10$	17
$10 < t \le 15$	14
$15 < t \leqslant 20$	10
$20 < t \leqslant 25$	7

Draw a frequency diagram on the grid below to show this information.





(3 marks)

3

5 There are 500 plastic shapes in a box. The shapes are circles, triangles, squares and rectangles.

A shape is chosen at random from the box. The table shows some of the probabilities of shapes being chosen.

Shape	Probability
Circle	0.2
Triangle	
Square	
Rectangle	0.1

The probability of choosing a triangle is equal to the probability of choosing a square.

Calculate the number of triangles in the box.

END OF SECTION A





