Surname						Names			
Centre Number						Candida			
Candidate Signat	ure								

	For	Examiner's	Use
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AQA

General Certificate of Secondary Education June 2009

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

Thursday 11 June 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.





43051/FA

For Examiner's Use						
Secti	on A	Sect	ion B			
Question	Mark	Question	Mark			
1		5				
2		6				
3		7				
4		8				
Total Sec	ction A					
Total Sec	ction B					
TOTAL						
Examine	r's Initials					







1	(d)	The	number	of lessons	s taken by	y 11 driv	ers is sho	wn.				
			25	33	41	50	21	43				
			54	37	42	18	24					
1	(d)	(i)	Comple Remen	ete an ord aber to co	lered sten omplete th	n-and-lea ne key.	ıf diagrar	n to show this dat	a.			
							••••••					
			•••••									
							••••••					
						Key:		represen	ts lessons			
1	(d)	(ii)	1 2 3 4 5 One of Write o	these 11 down the	drivers is probabilit	s chosen ty that th	at randon is driver	 	<i>(3 marks)</i> lessons.			
				Ans	swer				(1 mark)			



9

2	Don	na asks	ten clas	smates	how ma	ny days	they we	re absen	t from sc	hool las	t term.
	The	results a	ire								
		2	0	3	7	8	0	1	11	6	4
2	(a)	Calcul	ate the	mean n	umber o	f days a	bsent.				
		•••••					•••••	•••••			
							•••••				
		•••••		•••••		•••••	•••••	•••••		•••••	
				Ar	nswer		•••••	•••••			(3 marks)
2	(b)	Donna She is	says th not cor	at the n rect.	nean sho	ould be 3	3.5				
		Which Give a	averag reason	e has th for you	e value ir answe	3.5? r.					
						Aı	nswer				
		Reason	1:				•••••				
				•••••	•••••		•••••	•••••		•••••	
											(2 marks)





APW/Jun09/43051/FA

4 A four-sided spinner is shown.



The spinner is biased. Some of the probabilities of the spinner landing on a letter are shown in the table.

Letter	Probability
A	0.3
В	
С	
D	0.1

The probability that the spinner lands on C is double the probability that the spinner lands on D.

The spinner is spun 60 times.

Calculate the number of times you would expect it to land on *B*.

Answer
END OF SECTION A













Surname	Other	Names						
Centre Number					Candid	ate Number		
Candidate Signatu	ure						-	

General Certificate of Secondary Education June 2009

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

43051/FB

Thursday 11 June 2009 2.05 pm to 2.35 pm

For this paper you must have:

• mathematical instruments.



You must **not** use a calculator.

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.











Turn over ►

8







6

6	(c)	The highest temperature for the whole day is shown on the graph.
		What was the highest temperature?
		Answer°C (1 mark)
6	(d)	The range of the temperatures for the whole day was 18 °C.
		Work out the lowest temperature on this day.
		Answer °C (2 marks)

Turn over for the next question



Turn over ►







Areas outside the box will not be scanned for marking

8	12 st They Each The	udent coun stude results	ts carried out an investigation. nted the number of books in their bags. ent weighed their bag with the books and recorded the total weight. ts are shown on the scatter diagram.	
			Total weight (kg) $($	
			Number of books	
8	(a)	Desc	cribe the relationship between the number of books and the total weight.	
			(1 m	nark)
8	(b)	(i)	Draw a circle around the point that does not fit the general pattern. $(1 m)$	ark)
8	(b)	(ii)	If this point is removed from the scatter diagram what effect would this have the correlation?	on
			Tick the correct box. Image: Constraint of the correct box is the correct box	
			Explain your answer.	
			(2 mc END OF QUESTIONS	arks)

0 7



