Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					



General Certificate of Secondary Education Foundation Tier November 2013

Mathematics

43601F

Examiner's Initials Mark Pages 2 - 34 - 56 - 78 - 910 - 1112 - 1314 - 1516 - 17TOTAL

For Examiner's Use

Unit 1

Wednesday 6 November 2013 9.00 am to 10.00 am

For this paper you must have:

- a calculator
- mathematical instruments.



Time allowed

• 1 hour

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. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 54.
- The quality of your written communication is specifically assessed in Questions 7 and 8. These questions are indicated with an asterisk (*).
- 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.









2	Here are nine numbers.								
	23	25	23	31	20	25	21	24	25
2 (a)	Work out th	e mediar	ı.						
		A	nswer						(2 marks)
2 (b)	Write down	the mod	e.						
		A	nswer						(1 mark)

Turn over for the next question











Turn over ►



5	Here is some information about a group of 20 children.						
			Boys	Girls			
		Left-handed	4	1			
		Right-handed	7	8			
		·					
5 (a)	What fraction of the Write your fraction			ed?			
		Answer				(3 marks)	
5 (b)	A child is chosen	at random from th	e group.				
	Work out the prob	ability that the chi	ld is a girl.				
		Answer				(2 marks)	



6	A lunchbox contains one sandwich and one drink from this list.						
	Sandwich	es	Drinks				
	Cheese (C)	Blackcurrant (B)				
	Ham (H))	Lemonade (L)				
	Prawn (F	2)	Water (W)				
6 (a)	List all possible combina	ations.					
	One has been done for	you.					
	СВ						
					(3 marks)		
6 (b)	One combination is chose	sen at random.					
	What is the probability th	nat it is Ham and	Water?				
	Answ	er			(1 mark)		
	Tu	rn over for the	next question				



7	Chris recorded the number of runs he scored in five cricket matches.							
	21	20	29	22	24			
7 (a)	Calculate the me Give your answer		whole numbe	r.				
		Answer				(4 marks)		
7 (b)	Calculate the ran	ge.						
		Answer				(1 mark)		



	Tommy also recorded the number of runs he scored in the five matches.	
*7 (c)	Tommy's mean was 30.	
	He says, "I scored more runs than Chris."	
	Use the data to comment on this statement.	
	(1 m	nark)
*7 (-1)		
*7 (d)	Tommy's range was 75.	
	Chris says, "I was more consistent than Tommy."	
	Use the data to comment on this statement.	
	(1 m	nark)
	Turn over for the next question	







8 (c)	30 000 magazines were sold in Wales.
	How many magazines were sold in total?
	Answer
9	Here is some information about 50 houses.

Number of bedrooms	Number of houses
1	6
2	10
3	22
4	9
5	3
	Total = 50

Work out the total number of bedrooms in the 50 houses.



Turn over







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10 (b)	Draw a line of best fit.	(1 mark)
10 (c)	Use your line of best fit to predict the fuel used to travel 110 km.	
	Answer litres	(1 mark)

Turn over for the next question









11 (b)	Work out the ratio of online sales to shop sales for 2008 . Give your answer in its simplest form.	
	Answer :	(2 marks)
	Turn over for the next question	
		Turn over ▶

12	The pay of $$	100 students with Saturda	ay jobs was recorded.		
		Pay (£x)	Number of studen	ts	
		0 < <i>x</i> ≤ 10	2		
		$10 < x \le 20$	44		
		$20 < x \le 30$	41		
		$30 < x \le 40$	1		
		$40 < x \le 50$	2		
		$50 < x \le 60$	4		
		$60 < x \le 100$	6		
			Total = 100		
12 (a)	How many v	vere paid more than £30?)		
		Answer			(1 mark)
12 (b)	How many v Circle your a	vere paid £5 or less? answer.			
	0	1	2 0	Cannot tell	
	0	·	2		
					(1 mark)
12 (c)	Work out the	e class interval that conta	ins the median.		
		•			
		Answer	< <i>x</i> ≤		(1 mark)



13	In a survey people had to choose A, B, C or D.								
	The percentages for B, C and D are shown.								
		Α	В	С	D				
			25%	35%	30%				
			2070	0070	0070				
	150 people cho	ose B.							
	How many peo		\?						
		Answer					(4 marks)		
		/ 1100001					(Thanko)		
			END OF Q	UESTIONS					













