Please write clearly in	block capitals.
Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature	

GCSE MATHEMATICS

Foundation Tier Unit 1	Statistics and Number
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Wednesday 2 November 2016

Morning

Time allowed: 1 hour

Materials

For this paper you must have:

- a calculator
- mathematical instruments.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- 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 1 and 10. 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.





WMP/Nov16/E4





*1 (b)	This pictog	ram represents his	s online sales.
			Online sales
			Key: represents £1000
	_	Shorts	
	-	Jackets	
	_	Hoodies	
		T-shirts	
	His phone	sales were £2000	
	Jon says,	Three questors of	mu colos woro oplino."
	la ha corro	ot2	my sales were online.
	You must s	show your working	[3 marks]



Turn over ►



Here is a list of vehicles passing a shop on Sunday.

car	car	van	lorry	car
car	van	lorry	car	lorry
lorry	car	car	van	lorry
car	car	van	lorry	car

3 (a) Complete the table for Sunday.

[3 marks]

Type of vehicle	Tally	Frequency
car		
van		
lorry		
I		Total = 20

3 (b) On Monday,

there are **twice** as many lorries as on Sunday

 $\frac{1}{3}$ of the vehicles are lorries

the other vehicles are cars.

Work out the number of **cars** on Monday.

[3 marks]

Answer



4	There are 4 aces in a pack of 52 cards. A card is chosen at random.	
4 (a)	Work out the probability of choosing an ace. Give your answer as a decimal. Write down your full calculator display.	[1 mark]
	Answer	
4 (b)	Give your answer to part (a) to 3 decimal places.	[1 mark]
	Answer	
4 (c)	Work out the probability that the card is not an ace.	[1 mark]
	Answer	



5	Four numbers have
	a total of 70
	a mode of 10
	a median of 15
	Work out the four numbers.
	Answer
	,, , <u></u> , <u></u> , <u></u> , <u></u> , <u></u> ,
	Turn over for the next question



Turn over





6 (b)	800 parents in Bradford replied	
U (D)	250 of them said 'Yes'.	
	Which parents gave a higher proportion of 'Yes' replies, Leeds or Bradford?	
	You must show your working.	[3 marks]
	Answer	
	Turn over for the next question	



Turn over

Here is some information about 32 hotels.

7

Number of lifts	Number of hotels
2	7
3	9
4	10
5	6
	Total = 32

Work out the total number of lifts in the 32 hotels.

[2 marks]

Answer



Marks for Amy	7.8	7.3	4.2	8.1	7.1
Mean mark	for Beth	7.2]		
Who has the higher me You must show your w	an mark? orking.				
Ansv	wer				
	Turn ove	er for the r	next questio	on	



Turn over





9 (b)	(b) Work out the range of all the flight costs.				
	Answer £				
9 (c)	75 people fly to Miami. Some fly Economy and the others fly Premium.				
	The total cost of the Economy flights is £37820				
	Use the bar chart to work out the total cost of the Premium flights.				
		[4 marks]			
	Answer £				
	Turn over for the next question				



Turn over ►





10 (b)	On Friday, the median number of cars using the car parks is 15% lower than Thursday.			
	Work out the median for Friday.	[3 marks]		
	Answer			
	Turn over for the next question			
	fulli over for the flext question			
		Turn over ►		







12	In a survey, 160 people chose A, B or C.
----	--

30 women and 26 men chose B.

Women chose A : B : C in the ratio 1 : 2 : 3

2 more people chose A than chose C.

Complete the table.

[5 marks]

	Α	В	С	Total
Women		30		
Men		26		
Total				160



Turn over ►

13	Each day Chen buys pasta or a sandwich.				
	Pasta £3.20				
	Sandwich £2.75				
	For 45 days, the relative frequency of Chen buying a sandwich was $\frac{1}{5}$				
	Altogether, how much did he pay? [4 marks]				
	Answer £				
	END OF QUESTIONS				









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