Write your name here		
Surname	Oth	ner names
	Centre Number	Candidate Number
Edexcel GCSE		
	1:00 D	
Mathema		
		(Calculator)
Unit 1: Statistics an		(Calculator)
		(Calculator) Foundation Tier
	nd Probability	
Unit 1: Statistics an	2 – Morning	Foundation Tier
Unit 1: Statistics an Tuesday 6 November 2012	2 – Morning	Foundation Tier Paper Reference

## Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** guestions.
- Answer the questions in the spaces provided - there may be more space than you need.
- Calculators may be used.
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

# Information

- The total mark for this paper is 60
- The marks for **each** question are shown in brackets - use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (\*) are ones where the quality of your written communication will be assessed.

# Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



Turn over 🕨



P40666A ©2012 Pearson Education Ltd. 6/6/7/4/



#### **GCSE Mathematics 2MB01**

Formulae: Foundation Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

Area of trapezium =  $\frac{1}{2}(a+b)h$ 





**Volume of prism** = area of cross section × length



## Answer ALL questions.

#### Write your answers in the spaces provided.

#### You must write down all stages in your working.

1 The table shows information about some items for sale in a clothes shop.

Item	Size	Colour	Price
Dress	large	red	£28
Trousers	medium	black	£19
Shirt	medium	red	£15
Blouse	large	white	£12
Shorts	small	blue	£16
Fleece	extra large	red	£23

(a) Write down the colour of the blouse.

(b) Write down the size of the cheapest item that is red.

Kate bought the dress and the shirt.

(c) Work out the total cost.

(1)

(1)

## (Total for Question 1 is 3 marks)



2 This pictogram gives information about the numbers of bunches of roses Graham sold on Monday, on Tuesday and on Wednesday.

Monday	030			
Tuesday	-Co			
Wednesday	\$	$\circ$		
Thursday				



(a) Write down the number of bunches of roses Graham sold on Monday.

(b) Write down the number of bunches of roses Graham sold on Tuesday.

On Thursday Graham sold 6 more bunches of roses than he sold on Wednesday.

(c) Complete the pictogram for Thursday.

(2)

(1)

(1)

#### (Total for Question 2 is 4 marks)



**3** Erin is going on holiday.

When she gets to the airport she looks at the clock.



(a) (i) Write down the time shown on the clock.

Erin's plane will leave at 9.26 am.

(ii) How long will Erin have to wait until her plane leaves?

Erin's suitcase is weighed at the check-in desk.

The scales show the weight of her suitcase.



(b) Write down this weight.



(3)

..... kg

(Total for Question 3 is 4 marks)



4	Jessie wants	to find	out the	colours	of some	cars in a	car park.
---	--------------	---------	---------	---------	---------	-----------	-----------

Design a suitable table for a data collection sheet she could use.

(Total for Question 4 is 3 marks)

5 Calculators cost £3.85 each.

Charlie has £30 She wants to buy as many of these calculators as possible.

Work out how many calculators Charlie can buy.

(Total for Question 5 is 2 marks)



5	(a) On the probabilit has 20 sisters.	y scale belc	ow, marl	c with a	cross (	x) the p	orobabi	lity that	a wom	an
	Г 0				$\frac{1}{2}$				1	
					2					(1)
	There are 6 red bead Adam takes at rando				1.					
	(b) On the probabilit takes a red bead.	y scale belc	ow, marl	c with a	cross (	×) the p	orobabi	ity that	Adam	
	0				$\frac{1}{2}$				] 1	
					2					(1)
						(Tot	al for (	Questio	n 6 is 2	marks)
7	14 students did a hist	tory test.								
	Here are the results.									
		Girls	3	8	2	4	3	4	4	6
		Boys	3	6	3	3	1	4		
	Adele says, "The ran	ge of the gi	rls' mar	ks is 1 1	more th	an the r	ange of	the boy	ys' marl	ks."
	Is Adele right? You must show your	working.								
						(Tot	al for (	Juestia	n 7 is 3	marks)
						(100		Zuestio	11 / 18 5	
										7

Turn over 🕨

	8	Here	is	a	lunch	menu.
--	---	------	----	---	-------	-------

There is a choice of 2 starters. There is also a choice of 3 main courses.

		1	Lunch	Mei	nu		
	Starter		soup	)	pate		
	Maín cou	rse	laml	5	beef	chicken	
than is going	g to choose one sta	rter and	one mai	n cours	e.		
Vrite down a	ll the possible com	bination	ns Ethan	can cho	oose.		
					(Total fo	or Question 8 is 2	marks)
lere are the a	ages, in years, of 13	8 childre	en.				
	12	13	13	11	12	13	
	11	13	12	10	11	12	
	13	11	10	13	12	13	
a) Find the r	node.						
							(1)
o) Work out	the median.						
							(2)

<b>10</b> Here are the	e ages, i	n years,	of childr	en at a pa	rty.				
	6	8	6	4 5	5	6	7 4	4 6	
(a) Work o	ut the m	ean.							
									years
A1		1 1							(2)
At the party							il duon of		
The table sl	nows ini	ormation	1 about t	ne numbe	rs of sausa	ages the cr	illaren at	e.	
	Numb	er of sau	isages	1	2	3	4	5	
	Numb	er of chi	ildren	3	1	4	0	2	
(b) Work of	ut the to	tol numb	or of so	isogos the	ahildran	ato			
(b) Work o	ut the to			isages the		ale.			
									2011020000
									(2) sausages
						(Total fo	r Questi	on 10 is 4 r	narks)



9



12 The table shows information about the favourite sport of some students.

Favourite sport	Men	Women
Hockey	3	6
Tennis	8	14
Football	15	7
Golf	9	1

On the grid, draw a suitable diagram to show this information.



13 A chess club has two teams.

Last year the two teams played a total of 54 matches.

The two-way table shows some information about their results.

	Win	Draw	Lose	Total
Team A			3	
Team B	18		9	31
Total		14		54

Complete the two-way table.

(Total for Question 13 is 3 marks)

#### 14 There are

- 4 yellow crayons
- 5 red crayons
- 3 green crayons

in a box.

Jan takes at random a crayon from the box.

Write down the probability that the crayon is green.

(Total for Question 14 is 2 marks)





16 The list below shows the weight, in grams, of 15 baskets of strawberries.	
193 200 207 211 198	
189 218 195 206 189	
223 190 207 205 212	
Show this information in an ordered stem and leaf diagram. You must include a key.	
Key:	
(Total for Question 16 is 2 more	
(Total for Question 16 is 3 marl	<u> </u>

17	Nathan wants to find out how many DVDs poople have	
1/	Nathan wants to find out how many DVDs people have.	
	He writes this question on a questionnaire.	
	How many DVDs do you have?	
	How many DVDs do you have?	
	0 to 5 5 to 10 11 to 15 16 to 20	
	Write down <b>two</b> things wrong with this question.	
1		
1		
2		
	(Total for Question 17 is 2 ma	arks)
		(1 K5)
		15
		Turn over 🕨
	P40666A01520	



The information in the bar chart is going to be shown in a pie chart.

(b) Use the information in the bar chart to complete the pie chart.





\*19 Joan is planning a skiing holiday in Hinterglemm for herself and her two children. They are going skiing for 6 days.

The table shows the costs of ski hire, of boot hire and of buying lift passes in two shops in Hinterglemm.

All prices are in Euros.

### Shop A

		Ski hire	<b>Boot hire</b>	Lift pass
Adult	6 days	111	53	236
	13 days	168	90	314
Child	6 days	78	52	165
	13 days	122	87	210

## Shop B

		Ski hire	<b>Boot hire</b>	Lift pass
Adult	6 days	108	54	242
	13 days	170	89	324
Child	6 days	68	48	160
	13 days	118	85	205

Joan will use her own skis and her own boots.

For 6 days she will need

to hire skis for each of her two children

to hire boots for each of her two children

and to buy lift passes for herself and each of her two children.

Shop A gives 5% off the total cost. Shop B gives 3% off the total cost.

Joan wants to hire the skis and boots and buy the lift passes from the same shop. She wants to get everything from the cheaper shop.

Which shop is cheaper for Joan? You must show all your working.





**TOTAL FOR PAPER IS 60 MARKS** 





