Surname		Other names
Edexcel GCSE	Centre Number	Candidate Numbe
Mathema Unit 1: Statistics ar		ity (Calculator) Foundation Ti
	 Morning	Paper Reference 5MB1F/0

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** questions.
- 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 π button, take the value of π 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 quide 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 ▶



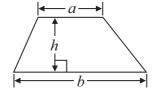
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GCSE Mathematics 2MB01

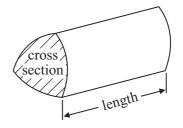
Formulae: Foundation Tier

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 \times length



Answer ALL questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1 The diagram shows 12 cards. There is a number on each card.

2 2 2

2 2

3 3

4 8

Riki takes at random one of these cards.

(a) Which number is **most** likely to be on the card?

(1)

(b) Which number is **least** likely to be on the card?

(1)

(Total for Question 1 is 2 marks)

2 (a) Write 35 mm in cm.

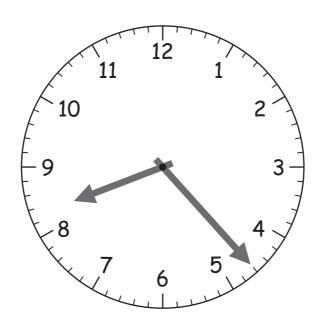
.....cm

(b) Write 2.4 kg in g.

(1)

(Total for Question 2 is 2 marks)

3



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

(1)

Lisa got on a bus at 08 45 Lisa got off the bus at 10 20

(b) How long was Lisa on the bus?

(2)

(Total for Question 3 is 3 marks)

Here is a pictogr It shows the num	ram. The of boxes of chocolates sold each day last week in a shop.	
Monday		
Tuesday		ts 20 boxes
Wednesday	of chocol	lates
Thursday		
Friday		
Saturday		
Sunday		
(i) on Tuesd(ii) on Thurs		
		(2)
(b) Work out the	e total number of boxes of chocolates sold last week.	
		(2)



5	Here is a	list of	12 numl	bers.										
	20	45	15	12	18	32	25	40	20	15	22	24		
	(a) Work	out the	e range.											
													(2)	
	(b) Find t	the med	dian.											
													(2)	
	(c) Work	out the	e mean.											
													(2)	
								(T	otal for	· Questi	on 5 is	6 mar	·ks)	
6	Hamish h	as two	spinner	s.					3			blue	1/2	
	One spini								4	$\frac{2}{1}$	\	red		>
	The other Hamish s					green.			5	1	4			
	List all th					nish cou	uld get.					v		
														•••••
								(T	otal for	· Questi	on 6 is	2 mar	·ks)	••••
								(1)	JUI 101	Zucsu	VII U 13	<u>= 11141</u>	110)	

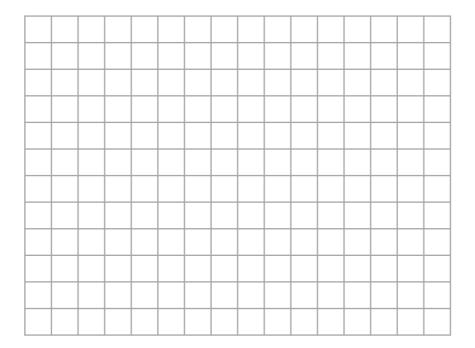
*7 Mrs Jones recorded the number of boys and the number of girls absent from school each day last week.

The table shows this information.

Day	Mon	Tues	Wed	Thur	Fri
Boys	8	8	6	5	2
Girls	4	6	3	5	9

Mrs Jones wants to compare this information.

On the grid draw a suitable diagram or chart.



(Total for Question 7 is 4 marks)

*8 Here is part of Sheila's electric bill.

Electric Bill

New reading 3546 units Old reading 3298 units

Price per unit 12p

Work out how much Sheila has to pay for the units of electricity she used.

(Total for Question 8 is 4 marks)



9 The table gives some information about fridges and freezers.

	Make	Energy rating	Frost-free	Capacity	Cost
Fridge	Beco	С	No	4 cu ft	£95
Freezer	Filips	A	Yes	4 cu ft	£115
Fridge	Dandy	В	Yes	6 cu ft	£122
Freezer	Beco	В	Yes	6 cu ft	£125
Fridge	Dandy	С	No	8 cu ft	£165
Freezer	Filips	В	No	8 cu ft	£145

Rashmi wants to buy one of these fridges and one of these freezers.

He wants a fridge with a capacity of more than 5 cu ft. The fridge must be frost-free.

Rashmi wants a freezer with an energy rating of A or B. The freezer must have a capacity of 8 cu ft.

Work out the total cost of the fridge and the freezer.

C			
T.	 	 	

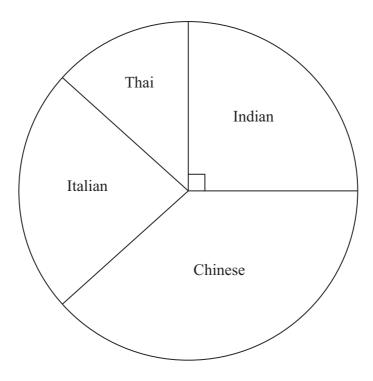
(Total for Question 9 is 2 marks)



10 A shop sells pencils in packs and in boxes. There are 12 pencils 4 pencils in a pack and 12 pencils in a box. box pack Lola buys *d* packs of pencils. (a) Write down an expression, in terms of d, for the number of pencils Lola buys. (1) Rory buys *x* packs of pencils and *y* boxes of pencils. (b) Write down an expression, in terms of x and y, for the total number of pencils Rory buys. **(2)** (Total for Question 10 is 3 marks) 11 Rina wants to find the heights of the students in her year group. Design a suitable table for a data collection sheet that she could use to collect this information. (Total for Question 11 is 3 marks)



12 The pie chart shows some information about the types of food that 60 people like best.



(a) (i) Measure the angle for Thai.

(ii) What fraction of the people like Thai food best?

- (2)
- (b) Work out the number of people who like Chinese food best.

(3)

(Total for Question 12 is 5 marks)

	(Total for Question 13 is 5 marks)
	(2)
(c) yellow?	
	(1)
(b) black,	
	(2)
15 of the beads are green The rest of the beads are yellow	
50 of the beads are red 25 of the beads are blue	
	15 of the beads are green

14 The stem and leaf diagram gives the heights, in cm, of some potato plants.

7

7

2	3	5	5	9
3	0	4	7	7
4	1	3	4	4
2 3 4 5 6	2 3	6	7	9
6	3	6	8	

Key

2 | 3 represents 23 cm

(a) Write down the greatest height.

	 	 	 	 		 															(2	1	1	ſ.	1
												(

(b) Write down the mode.

(c) Find the median.

				 								 			 		 	 	(2	r	r
											(2))								

(Total for Question 14 is 4 marks)

		•••••				(1)
	ive one reason why					
	nis may not produc					
Jaz is	going to give his q	uestionna	aire to his friend	ds.		(2)
						(2)
(b) De	esign a better quest	ion that J	az could use.			
						(2)
(a) W	rite down two thin	gs that are	e wrong with the	nis question.		
(
	none a	little	not much	a lot	FW.	
	How much time	uo you sp	cha using visa	ge:		
(How much time	do vou co	and using Visa	gg?		
	•	1	***************************************			<u>≽7//</u>
He use	es this question on	a questio	nnaire.			

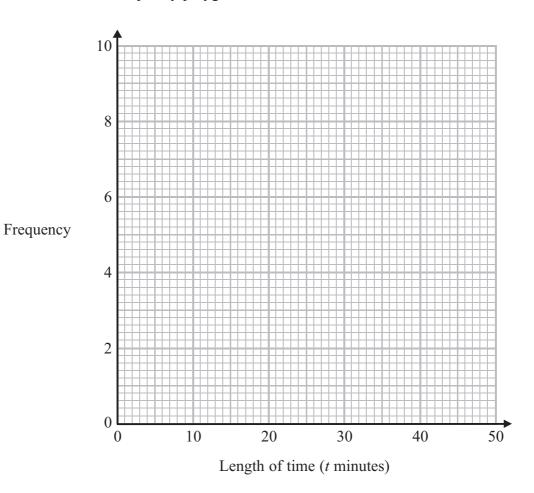


16 Helen went on 35 flights in a hot air balloon last year.

The table gives some information about the length of time, t minutes, of each flight.

Length of time (t minutes)	Frequency
$0 < t \leqslant 10$	6
10 < t ≤ 20	9
20 < t ≤ 30	8
30 < t ≤ 40	7
40 < <i>t</i> ≤ 50	5

On the grid below, draw a frequency polygon for this information.



(Total for Question 16 is 2 marks)

Turn over for Question 17

17 On an activity day students play one sport.	
They play football or hockey or tennis.	
120 students are on the activity day.	
30 of the students are boys.	
12 of the boys and 26 of the girls play hockey.	
45 of the students play football. 35 of the 45 students who play football are girls.	
Work out the number of girls who play tennis.	
	(Total for Question 17 is 4 marks)
	TOTAL FOR PAPER IS 60 MARKS