Write your name here		
Surname		Other names
In the style of:	Centre Number	Candidate Number
Edexcel GCSE		
Mathema	tics A	
Frequency		Foundation Tier
Past Paper Style Que	stions	Paper Reference
Arranged by Topic		1MA0/2F
You must have: Ruler graduate millimetres, protractor, pair of o eraser, calculator. Tracing pape	compasses, pen, F	

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.

Information

- The total mark for this paper is 100
- 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



- 1 (a) Basil records the types of fish that he caught during his holiday in The Bahamas.
 - (i) Complete the table.

Type of fish	Tally	Frequency
Mutton Fish	IIII	4
Grouper	III	3
Jack	111 1 - 111 1 11	12
Schoolmaster	1111 1 1111	9
	Total	28

(3)

(ii) What fraction of the fish are Mutton Fish? Give your answer in its simplest form.

$$\frac{4}{28} = \frac{1}{7}$$

 $\frac{1}{7}$ (2)

(b) This table shows the types of fish that Peter caught during the holiday.

Type of fish	Mutton Fish	Grouper	Jack	Schoolmaster
Frequency	4	6	5	3

She has finished the first row of a pictogram to show the

results. Complete the key and pictogram.

		represents
Mutton Fish	1670-1670	
Grouper	\sim \sim \sim	
Jack	\sim \sim D	
Schoolmaster	\sim	

(4)



(c) 500 000 people record the types of birds in their gardens. In total, they record eight million birds.On average, how many birds does each person record?

16

(d) Here is a list of the birds at a bird table.

robin

robin

sparrow

blackbird

starling

blackbird

starling

blackbird

robin

blackbird

One bird flies away.

Another bird arrives at the bird table.

The new mode is robin.

What type of bird flies away and what type of bird arrives? Complete the table.

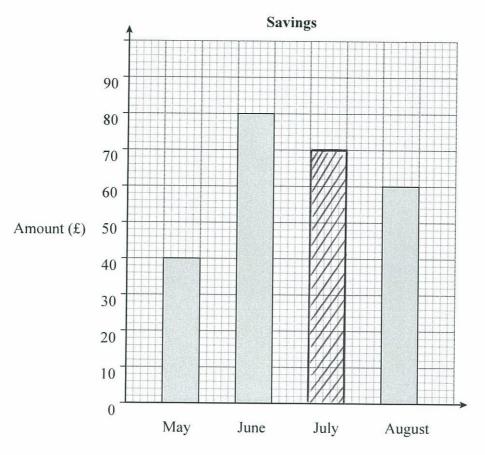
	Type of bird
Flies away	Blackbird
Arrives	Robin

(2)

(Total 14 marks)



2 (a) The bar chart shows the amounts Isaac saves in May, June and August 2010.



(i) Hc

(1)

(ii) From May to August he saves £250 in total.

Complete the bar chart by drawing the bar for July.

$$250 - (40 + 80 + 60)$$
$$= 250 - 180 = £70$$

(b)	The pictog	ram shows the amounts Isaac saves in the next for	our months.	
		Key: represents £20		
	May			180
	June			f20 f80
	July			£30 £70
	August			£70
		e range of the amount he saves in these four must show your working.		
8	0 - 3	0 = £50		
Ran	5e = 1	Paximum - Minimum		£ 50
		months he saves £50 each month.		. ,
1	How much h	as he saved in total?		
4 (5	-0)=	£200		
Total	Savin	gs = 250 + 230 + 2))))	£680
				£ 680
(ii) Isaa	c spends 50	% of these total savings to pay for a holiday.		(3)
	How much d	oes he pay for the holiday?	2(680)) = £340
•				£ 340
		(T	otal 11 mark	(2)

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3.	Is money discrete or
	continuous? Tick a box

	/	Discrete	Continuous	
ı				

Give a reason for your answer.

Like any discrete variable, money can be measured or quantified exactly as it can only take a limited for finite) set of values in any given interval.

Peter sells revision guides on a website. The sales in May are shown.

Sales (£)	Frequency
8	10
10	18
12	7
15	4
20	1

(a) Calculate his mean price.

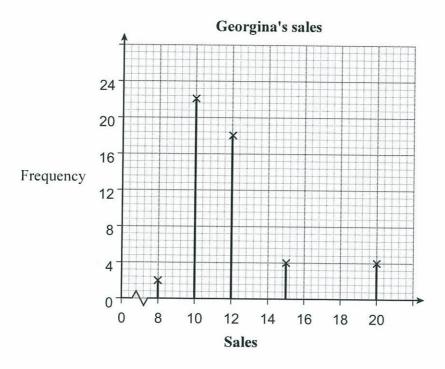
Mean =
$$\frac{\sum 3c}{\sum P} = \frac{10(8) + 18(10) + 7(12) + 4(15) + 1(20)}{10 + 18 + 7 + 4 + 1}$$

= $\frac{424}{40} = f10.60$ (3)

(b) Peter says that his modal price and his median price are both £10. Is he correct?

Give reasons and working to show how you decide.

(c) Georgina also sells revision guides on a website



Give one similarity and one difference in the sales of Peter and Georgina.

Similarity Peter and Georgina's modal prices are	
both £10:	
Difference Georgina's sales have a greater median	
price of f12 compared to Peter's median of f10)
(2)	

(Total 10 marks)



4. Kelsi rolled a dice 10 times.

Here are her scores.

1 5 6 4 4 2 2 3 4 3

(a) Find the mode.

(1)

(b) Work out the mean.

Mean =
$$\frac{\sum x}{f} = \frac{34}{10} = 3.4$$

3.4

(c) Work out the range.

5

(2)

(Total 5 marks)

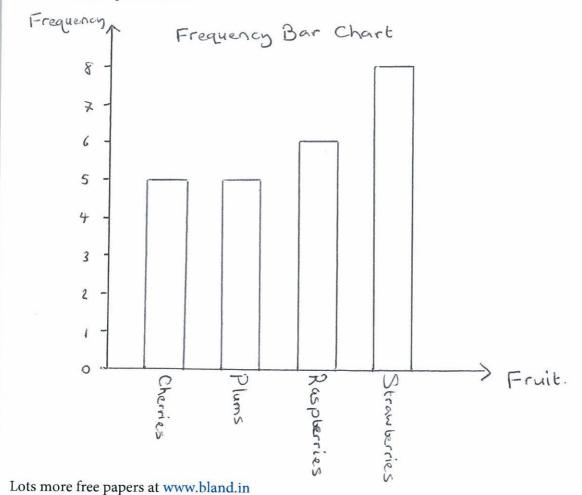
5. Here is a list of the fruit 24 people liked best.

cherries	strawberries	cherries	rasberries	strawbei	rries plums
rasberries	cherries	strawberries	plums	rasberries	rasberries
rasberries	cherries	cherries	plums	strawberries	strawberries
plums	rasberries	strawberries	strawberries	plums	strawberries

(a) Complete the table for the information in the list.

Fruit	Tally	Frequency
cherries	1111	5
plums	71+1-	5
rasberries	1111	6
strawberries	THT 111	8

(b) Draw a suitable diagram to show this information in the table. Use the space below.



(2)

6.

	Male	Female
First year	397	608
Second year	250	210

The table gives information about the numbers of students in the two years of a college course.

Hanna wants to interview some of these students.

She takes a random sample of 50 students stratified by year and by gender.

Work out the number of students in the sample who are male and in the first year.

7. Tara carried out a survey of the number of school dinners 34 students had in one week.

The table shows this information.

Number of school dinners	Frequency	Fox (i.e. fxx)
0	0	0
1	8	8
2	12	24
3	7	21
4	5	30
5	2	10
alculate the mean	= 34 ΣA	= 83

Calculate the mean.

Mean =
$$\frac{\sum x}{f}$$
 or $\frac{\sum fx}{\sum f} = \frac{83}{34} = 2.44 (3s.f.)$.

(Total 3 marks)

8. Sophie asked 32 women about the number of children they each had.

The table shows information about her results.

Number of children	Frequency	Foc
0	9	0
1	6	6
2	7	14
3	8	24
4	2	8
more than 4	0	0
) Find the mode	= 32 \(\Sigma\)	fx = 52

(a) Find the mode.

(b) Calculate the mean.

Mean =
$$\frac{\sum fx}{\sum f} = \frac{52}{32} = 1.625$$
or 1.63 (35.f.).

1.625

(Total 4 marks)

9. The table shows some information about the ages, in years, of 60 people.

	Age (in years)	Frequency
	0 to 9	6
	10 to 19	13
,	20 to 29	12
	30 to 39	9
	40 to 49	7
	50 to 59	4
	60 to 69	9

(a) Write down the modal class.

David says

Class containing

the 30th and 31st data values.

'The median lies in the class 30 to 39'

David is wrong.

(b) Explain why.

The median in this case hill be the average of (or mid-way between) the ages for the 30th and 31st person which must lie in the class 20 to 29. (1)

(c) On the grid, draw a frequency polygon for the information in the table.

Age (years)

(2)

(Total 4 marks)

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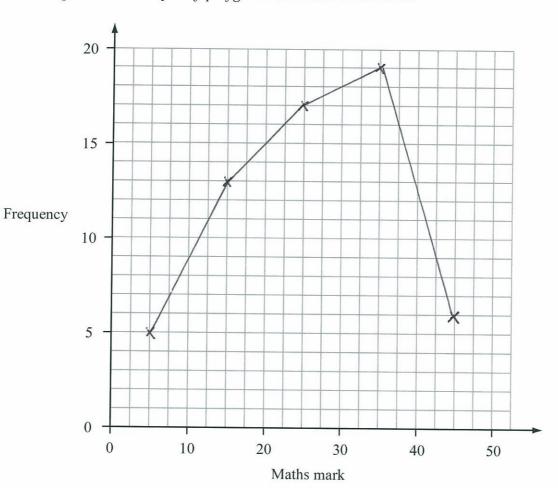
10. 60 students take a maths test.

The test is marked out of 50.

This table shows information about the students' marks.

Maths mark	0-10	11-20	21–30	31-40	41-50
Frequency	5	13	17	19	6

On the grid, draw a frequency polygon to show this information.



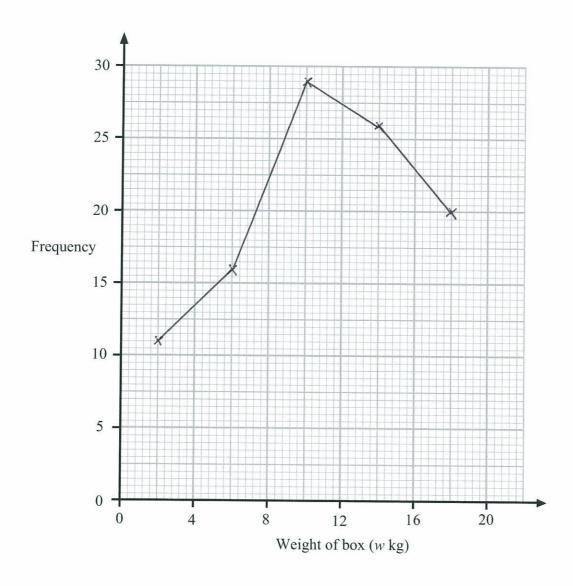
(Total 2 marks)



11. The table shows some information about the weights, in kg, of 100 boxes.

Weight of box (w kg)	Frequency	
$0 < w \leqslant 4$	11	
$4 < w \leqslant 8$	16	
$8 < w \leqslant 12$	29	
$12 < w \leqslant 16$	26	
$16 < w \leqslant 20$	20	

Draw a frequency polygon to show this information.

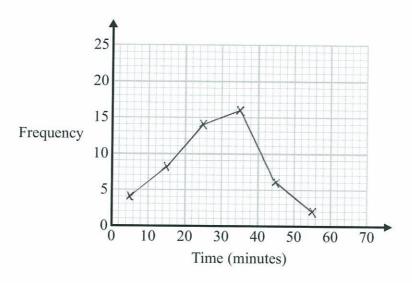


(Total 2 marks)

12. The frequency table gives information about the times it took some children to get to school one day.

Time (t minutes)	Frequency	
$0 < t \leqslant 10$	4	
$10 \le t \le 20$	8	
$20 < t \leqslant 30$	14	
$30 < t \le 40$	16	
$40 < t \leqslant 50$	6	
$50 < t \le 60$	2	

(a) Draw a frequency polygon for this information.



(b) Write down the modal class interval.

(2)

One of the children is chosen at random.

(c) Work out the probability that this child took more than 40 minutes to get to school.

$$P(\text{more than 40 mins}) = \frac{6+2}{50} = \frac{8}{50} = \frac{4}{25}$$
or 0.16
(2)

(Total 5 marks)

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