Write your name here		
Surname	Other nan	nes
In the style of: Edexcel GCSE	Centre Number	Candidate Number
Mathema	tics A	
Frequency	Fo	oundation Tier
Past Paper Style Que Arranged by Topic	estions	Paper Reference 1MA0/2F
You must have: Ruler gradua	ted in centimetres and compasses, pen, HB penci	Total Marks

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.







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	
Grouper	III	
Jack	HHI HHI II	
Schoolmaster	HHI IIII	
	Total	

(3)

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

(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.

Key: represents fish

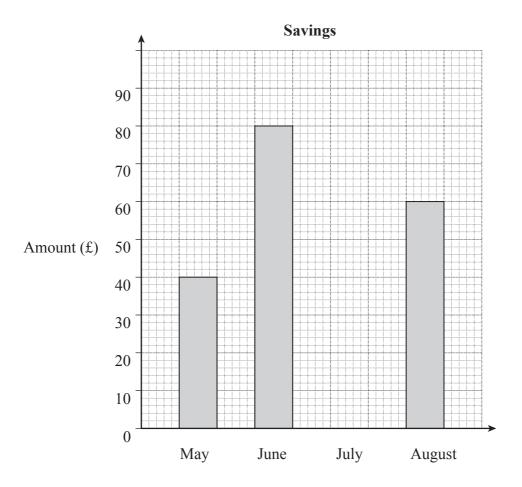
Mutton Fish	
Grouper	
Jack	
Schoolmaster	

(4)



(c)	gardens. In to	le record the types stal, they record eignow many birds do	ght million birds.			
						(3)
(d)	Here is a list	of the birds at a bi	ird table.			
	robin	robin	sparrow	blackbird	starling	
	blackbird	starling	blackbird	robin	blackbird	
	table. The new mod What type of	arrives at the bird		ird		
			Туре	of bird		
		Flies away				
		Arrives				
						(2)
					(Total 14	marks)

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



(i) How much does he save in May 2010?

£

(1)

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

Complete the bar chart by drawing the bar for July.

(3)



		£	(2)
	110 William does no pay for the honday:		
(11)	How much does he pay for the holiday?		
(ii)	Isaac spends 50% of these total savings to pay for a holiday.	~	(3)
		£	
(c) (i)	How much has he saved in total?		
(c) (i)	For the next 4 months he saves £50 each month.		(2)
		£	
	Work out the range of the amount he saves in these four months. You must show your working.		
	December		
	November		
	October		
	September		
	Key: represents £20		

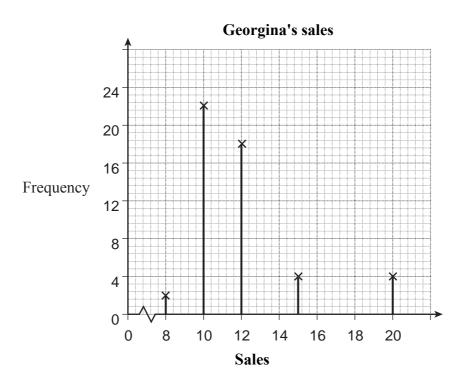
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3.	Is money discrete continuous? Tick a			
	Discre	ete	Continuous	
	Give a reason for yo	our answer.		
	Peter sells revision g website. The sales in shown.		1	(1)
	Sales (£)	Frequency		
	8	10		
	10	18		
	12	7		
	15	4		
	20	1		
(a)	Calculate his mean p	orice.		£
				(3)
(b)	Peter says that his m		median price	
	are both £10. Is he c		4:4.	
	Give reasons and wo	orking to snow now	you decide.	



(2)

(c) Georgina also sells revision guides on a website



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

Similarity	
Difference	
	(2)

(Total 10 marks)



4.	Kelsi rolled a dic	e 10 tim	es.										
	Here are her sco	ores.											
	(a) Find the mod		5	6	4	4	2	2	3	4	3		
	(b) Work out the	e mean.										 (1)	
	(c) Work out the	e range.										 (2)	
								(Tota	l 5 ma	arks)		 (2)	

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5. Here is a list of the fruit 25 people liked best.

cherries	strawberries	cherries	rasberries	rasberries strawber	rries plums
rasberries	cherries	strawberries	plums	rasberries	rasberries
rasberries	cherries	cherries	plums	strawberries	strawberries
plums	rasberries	strawberries	strawberrie	s plums	strawberries

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

Fruit	Tally	Frequency
cherries		
plums		
rasberries		
strawberries		

(2)

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



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.

•••••	•••••	•••	•••••	••••
(To	otal	3	ma	rks)



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	
0	0	
1	8	
2	12	
3	7	
4	5	
5	2	

Calculate the mean.

(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	
0	9	
1	6	
2	7	
3	8	
4	2	
more than 4	0	

(a) Find the mode.

(1)

(b) Calculate the mean.

(3)

(Total 4 marks)



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.

(1)

David says 'The median lies in the class 30 to 39'

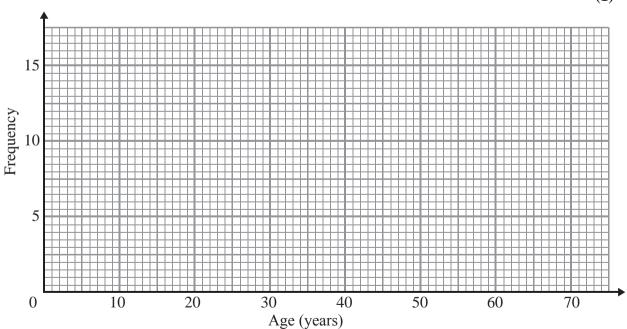
David is wrong.

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(b) Explain why.



(1)



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

(2)



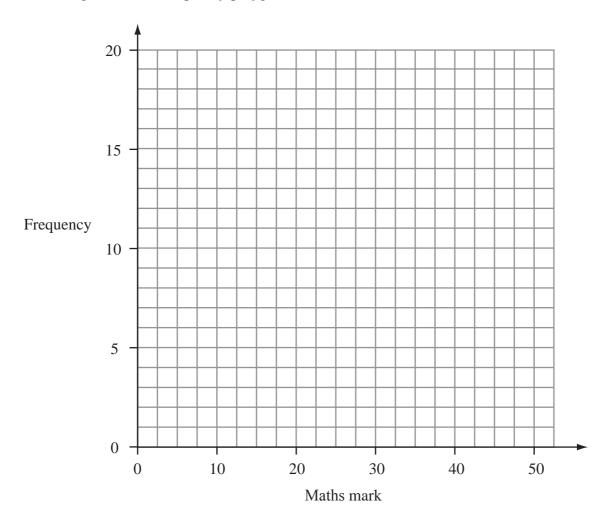
10. 60 students take a maths test.

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.



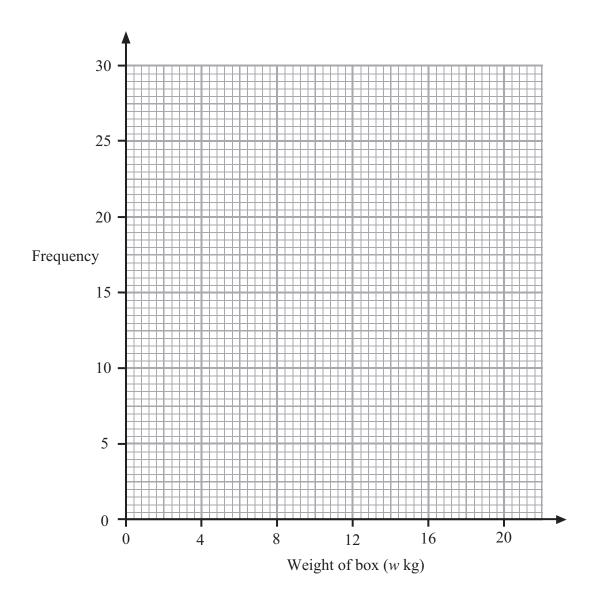
(Total 2 marks)



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 < <i>w</i> ≤ 8	16
8 < w ≤ 12	29
12 < <i>w</i> ≤ 16	26
$16 < w \leqslant 20$	20

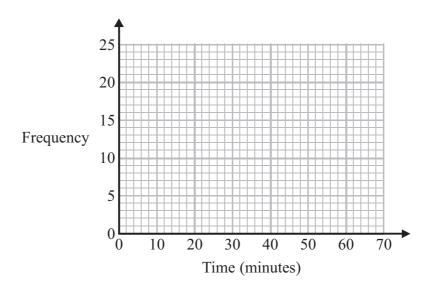
Draw a frequency polygon to show this information.



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

Time (t minutes)	Frequency
0 < <i>t</i> ≤ 10	4
10 < <i>t</i> ≤ 20	8
20 < t ≤ 30	14
30 < <i>t</i> ≤ 40	16
40 < <i>t</i> ≤ 50	6
50 < <i>t</i> ≤ 60	2

(a) Draw a frequency polygon for this information.



(b) Write down the modal class interval.

(1)

(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.

(2)

(Total 5 marks)