Write your name here		
Surname	0	Other names
In the style of: Pearson Edexcel GCSE	Centre Number	Candidate Number

MathematicsFrequency

Foundation Tier

GCSE style questions arranged by topic

Paper Reference 1MAO/2F

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator.

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.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.

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 durin	g his holiday in The Baha	mas.
(i) Complete the table.			
	Type of fish	Tally	Frequency	

Type of fish	Tally	Frequency
Mutton Fish	IIII	
Grouper	III	
Jack	IIII IIII II	
Schoolmaster	HH IIII	
	Total	

(3)

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

•														•			•					
																				ļ		

(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

He 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)

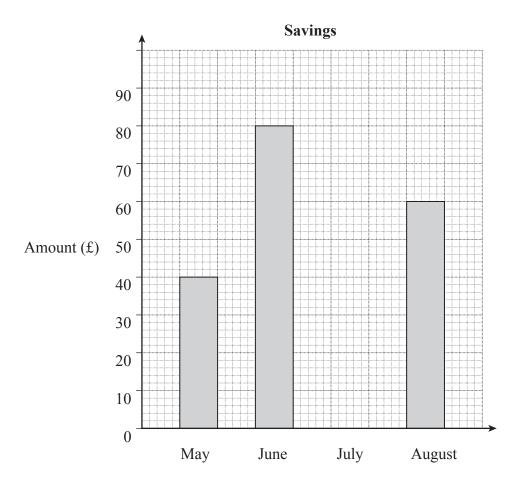


gardens. In to	le record the types stal, they record ei now many birds do	ght million birds.			
					(3
	of the birds at a b		hloolshind	ataulin a	
robin blackbird	starling	sparrow blackbird	blackbird robin	starling blackbird	
One hird flies	s away. Another b	. ,			
arrives at the The new mod	bird table.	ird			
arrives at the The new mod What type of	bird table.		vird		
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arrives at the The new mod What type of	bird table. de is robin. bird flies away ar	nd what type of b			

(Total for Question 1 is 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)



(b)	The pictogram shows the amounts Isaac saves in the next four month Key: represents £20	S.
	September	
	October	
	November	
	December	
	Work out the range of the amount he saves in these four months. You must show your working.	-
		£(2)
(c) (i)	For the next 4 months he saves £50 each month.	
	How much has he saved in total?	
		£
(ii)	Isaac spends 50% of these total savings to pay for a holiday.	(3)
	How much does he pay for the holiday?	
		£(2)

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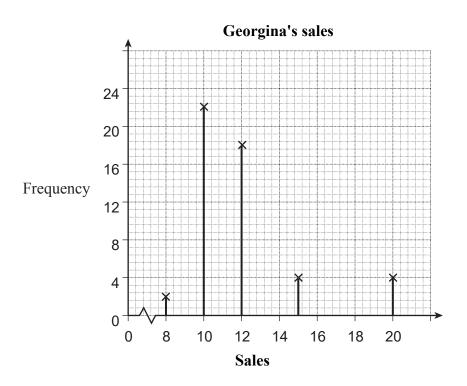
(Total for Question 2 is 11 marks)



3	Is money discrete continuous? Tick a Discrete Discrete Give a reason for your Peter sells revision g	box. ete ur answer.	Continuous (1)
	website. The sales in		
	shown.]
	Sales (£)	Frequency	
	8	10	
	10	18	
	12	7	
	15	4	
	20	1	
(a)	Calculate his mean p	orice.	
(b)	Peter says that his mare both £10. Is he confidence of the confide	orrect?	

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(c) Georgina also sells revision guides on a website



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

nilarity	
ference	
	(2)

(Total for Question 3 is 10 marks)



4	Kelsi rolled a dic	e 10 tim	nes.									
	Here are her scor	res.										
	(a) Find the mod		5	6	4	4	2	2	3	4	3	
	(b) Work out the	mean.										 (1)
	(c) Work out the	range.										 (2)
					(Tota	al for (Questi	ion 4 i	s 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	strawberries	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		
plums		
rasberries		
strawberries		

(2)

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



(3)

(Total for Question 5 is 5 marks)



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.

•••••

(Total for Question 6 is 3 marks)



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 for Question 7 is 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 for Question 8 is 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.

(1)

David says

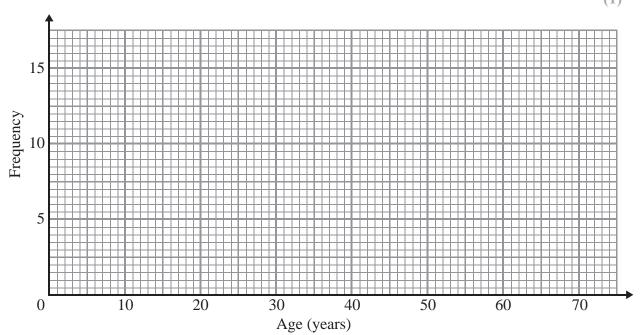
'The median lies in the class 30 to 39'

David is wrong.

(b) Explain why.

.....

(1)



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

(2)

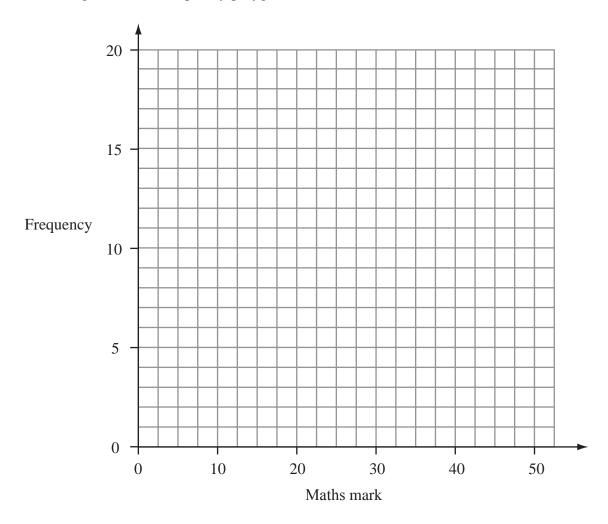
10 60 students take a maths test.

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.



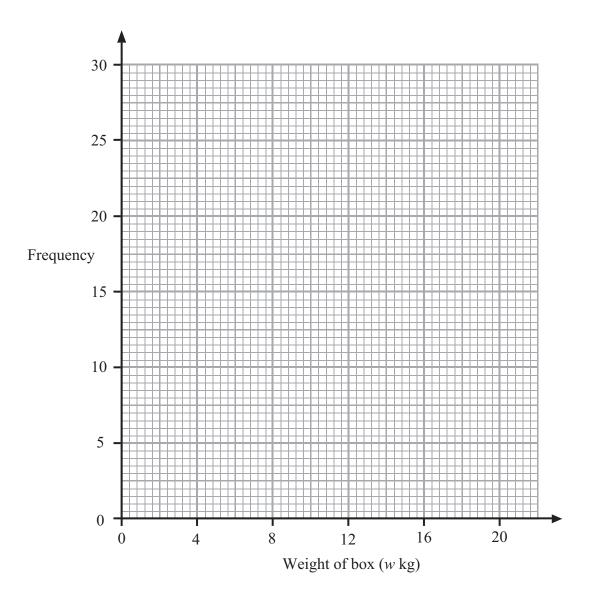
(Total for Question 10 is 2 marks)



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

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

Draw a frequency polygon to show this information.

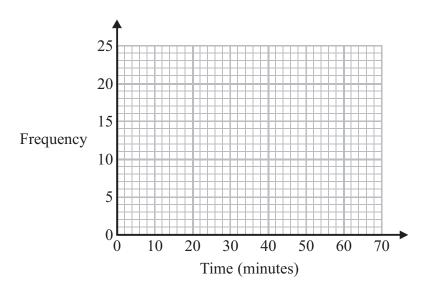


(Total for Question 11 is 2 marks)

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
$10 < t \leqslant 20$	8
$20 < t \leqslant 30$	14
$30 < t \leqslant 40$	16
$40 < t \leqslant 50$	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 for Question 12 is 5 marks)