Other	names
Centre Number	Candidate Number
tics A	
	Foundation Tior
	roundation her
estions	Paper Reference
	Centre Number

## 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	

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

(2)

(3)

(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: Key: represents.	fish
Mutton Fish		
Grouper		
Jack		_
Schoolmaster		_
		┘ (4)



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(c)	500 000 peop	le record the types	s of birds in their			
	gardens. In to	otal, they record ei	ght million birds.	ecord?		
	On average, f	now many dirds do	bes each person r	ecolu !		
						(2)
						(3)
(d)	Here is a list	of the birds at a b	ird table.			
	robin	robin	sparrow	blackbird	starling	
	blackbird	starling	blackbird	robin	blackbird	
	The new mod What type of arrives? Com	de is robin. bird flies away ar plete the table.	nd what type of b	vird		
			Туре	of bird		
		Flies away				
		Arrives				
	· · · · ·				1	(2)
						(_)

(Total 14 marks)



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			£	1
	How much o	loes he pay for the holiday?		
(ii)	Isaac spends 50	% of these total savings to pay for a holiday.	. ,	
			£(3)	
(c) (i)	For the next 4	months he saves £50 each month.		
			£(2)	
	Work out th months. You	e range of the amount he saves in these four a <b>must</b> show your working.		
	August			
	July			
	June			
	May			
		Key: represents £20		
(b)	The pictog	ram shows the amounts Isaac saves in the next four months.		

	T 1. (			
3.	continuous? Tick	e or a box		
	Discr	ete	Continuous	
	Give a reason for ye	our answer.		
				(1)
	Peter sells revision	guides on a		(1)
	website. The sales i	n May are		
	shown.			
	Sales (£)	Frequency		
	8	10		
	10	18		
	12	7		
	15	4		
	20	1		
(a)	Calculate his mean	price.		
		-		
				t
(b)	Peter says that his n	nodal price and his n	nedian price	(3)
(~)	are both £10. Is he c	correct?	Prove	
	Give reasons and w	orking to show how	you decide.	
				(2)
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(Total 10 marks)



4. Kelsi rolled a dice	10 tim	nes.									
Here are her score	s.										
(a) Find the mode	1	5	6	4	4	2	2	3	4	3	
(b) Work out the 1	nean.										(1)
(c) Work out the r	ange.										(2)
							(Tot	al 5 m	arks)		(2)
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5.	Here is a list of the fruit 24 people liked best.							
	cherries	strawberries	cherries	rasberries	strawber	ries plu	ms	
	rasberries	cherries	strawberries	plums	rasberries	rasberries		
	rasberries	cherries	cherries	plums	strawberries	strawberri	es	
	plums	rasberries	strawberries	strawberries	plums	strawberrie	es	

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

plums

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.

•••••

(Total 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 3 marks)



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**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.

(b) Calculate the mean.

(3)

.....

(1)

(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.





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(Total 4 marks)

.....

(1)

(1)



## **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 s	some information	about the	weights.	in kg.	of 100 l	ooxes
				weights,	m ng,	01 100 0	00100

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

Draw a frequency polygon to show this information.





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

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

(a) Draw a frequency polygon for this information.

