	Mea	n, Medi	an, Mod	e and Ra	nge Pas	t Paper Q	uestions	5	+- 
Q1.									
Here is a li	st of numbers	5.							
4	8	5	9	10	5	6	3	4	
(a) Work o	out the media	n.							
(b) Work o	out the mean.								(2)
									(2)
						(To	otal for Qu	estion is 4	marks)
Q2.									
	ist of numbers	S.							
		12	19 12	15 11	15 12	13 17			
Find the m	edian.								
						(To	otal for Qu	estion is 2	marks)

Q3.											+- ÷×
Here is a list of nun	nbers										
	12	19	12	15	11	15	12	13	17		
Find the median.											
								•••••			
								( <b>T</b> a	tal fan a		2 ala)
								(10	tal for q	uestion =	2 marks)
Q4.											
Steve went on holic He recorded the nur		photos h	e took e	each day.							
Here are his results.		r									
20	14	21	19	27	3	31	19	19	24	21	
(a) Find the mode.											
(a) Phild the mode.											
											(1)
(b) Work out the m	ean.										
											(2)
Steve saves his pho	tos on a	memory	card.								
The memory card h Each photo uses 2.4					pace.						
Steve has saved 320				_							
(c) Work out how	nany mo	ore photo	os Steve	can sav	e on the	e memoi	ry card.				
								•••••			(3)
											(3)
									4 1 6	uestion =	

	5	3	3	2	0	2	Λ	2	4	15	
	5	5	5	2	0	2	4	2	4	15	
Write down the mode.											
											(
Work out the mean.											

Vicky counts the number of birds in her garden at 5 pm on each of 20 days. She records the information in a frequency table.

Number of birds	Frequency
0	3
1	2
2	3
3	4
4	5
5	3

(c) Work out the total number of birds Vicky records in the frequency table.

.....

(2)

(Total for Question is 5 marks)

Q6.												(± €
Here is	the numbe	er of go	als scor	ed by a	footbal	l team ir	n each of	its first	10 gam	les.		
		3	1	4	2	0	1	1	1	3	2	
(a) Wr	ite down t	the mod	e.									
										•••••	•••••	(1
												(-
(b) Wo	ork out the	e mean i	number	of goal	s for the	e first 10	games.					
												(2
	1th game 2th game											
In the 1 *(c) W for the f	2th game	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate	r than oi	r less th	an the m	iean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate	r than oi	r less th	an the m	nean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	oe greate:	r than oi	r less th	an the m	iean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi	r less th	an the m	iean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi	r less th	an the m	iean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi	r less th	an the m	nean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate	r than oi	r less th	an the m	nean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games b	be greate	r than oi	r less th	an the m	nean numb	
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi	r less th	an the m	nean numb	er of goals
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi				
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi				(2
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi				(2
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi				(2
In the 1 *(c) W for the f	2th game /ill the me first 10 ga	the tean ean num mes?	n scorec ber of g	l 2 goal	s.	games t	be greate:	r than oi				(2

### The table shows information about the numbers of Year 10 students absent from Ellen's school last week Monday Tuesday

	Number of students	12	6	7	10	13	
(a) Work ou	t the mean nur	nber of Year 1	0 students abs	sent each day.			
	ol has a total of rcentage of Ye			on Monday?			(2)
							% (2)

Wednesday

Thursday

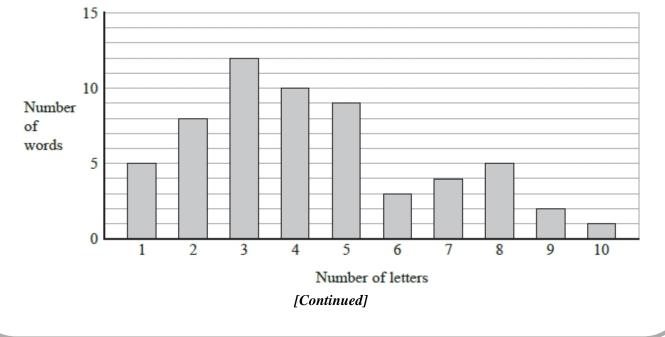
Friday

(Total for question = 4 marks)

+-÷×

Q8.

The bar chart shows some information about the number of letters in each word in a paragraph.



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### Q7.

(a) What is the modal number of letters in a word?	
(b) Work out the range for the numbers of letters in a word.	(1)
(c) Work out the fraction of the words that have at least six letters.	(2)
	(3)
Q9.	(Total for question = 6 marks)
Here are the ages, in years, of 10 children. 4 9 6 7 3 5 2 6 (a) Find the mode.	4 6
(b) Work out the median.	
(c) Work out the range.	years (2)
	(2) (Total for question = 5 marks)

Q10.						
Here are the ag	ges, in years, of 1	8 children.				
12	13	13	11	12	13	
11	13	12	10	11	12	
13	11	10	13	12	13	
(a) Find the m	iode.					
						(1)
(b) Work out the	he median.					
						(2)
				(Tota	l for Question i	
011						
Q11.						
5 blue bricks h	ave a mean weigh have a mean weigh has a weight of 6	nt of 9 kg.				
Donna says,	C	C				
"The mea	an weight of the 1	0 bricks is less th	an 7 kg."			
Is Donna corre You must show	ect? w how you get yo	ur answer.				

(Total for question = 3 marks)

### Q12.



Akhtar has £65 Ben has £100 Carl has three £5 notes, one £20 note and some £10 notes.

The mean amount of money per person is £80

How many £10 notes does Carl have?

(Total for question = 4 marks)

(Total for Question is 3 marks)

?

### Q13.

Ed has 4 cards. There is a number on each card.



The mean of the 4 numbers on Ed's cards is 10

Work out the number on the 4th card.

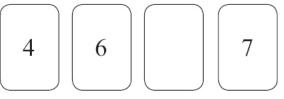
15

### Q14.



Here are four number cards.

One of the cards is turned over so you cannot see the number on it.



The mean of the four numbers is 6

Work out the number you **cannot** see.

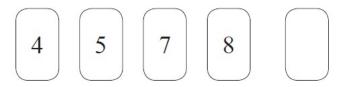
.....

(Total for Question 10 is 3 marks)

(1)

### Q15.

Here are five cards.



There is a whole number from 0 to 9 on each card.

The number on the last card is hidden.

The range of the five numbers is 6

(a) Write down the whole number on the last card.

[Continued]

#### Here is a different set of five cards.



There is a different whole number from 0 to 9 on each card.

The number on the last card is hidden.

The median of the numbers on the five cards is 4

(b) Which whole numbers could be on the last card?

.....

(Total for Question is 3 marks)

(2)

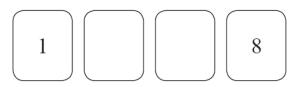
### Q16.

Dara has four number cards.

Each card has a positive whole number on it.

Dara puts the cards on a table so that the numbers are in order, starting with the smallest number.

Two of the cards are turned over and you cannot see the numbers on them.



The median of the four numbers is 5

(i) Complete the cards below to show two numbers that could be on the cards that are turned over.



(ii) Complete the cards below to show two other numbers that could be on the cards that are turned over.



(Total for question = 2 marks)