$\sim$	4

Here are seven numbers.

13 6 12 7 6 4 8

(a) Work out the range of the seven numbers.

Circle your answer.

5 6 7 8 9 **(1)** 

(b) What is the mode of the seven numbers?

Circle your answer.

5 6 7 8 9

(Total 2 marks)

## Q2.

Here is information about the scores, t, of class A in a test.

Score	Frequency	
0 < <i>t</i> ≤ 10	4	
10 < <i>t</i> ≤ 20	8	
20 < t ≤ 30	9	
30 < <i>t</i> ≤ 40	3	
40 < <i>t</i> ≤ 50	1	

(Total 4 marks)

The mean score f	or class B in the same test is 22
Dan says,	"On average, class A did better than class B."
ls he correct? You <b>must</b> show y	· ·

Answer .....

## Q3. The tables show two sets of data.

Set A

Result	Frequency
2	3
3	7
4	8
5	7
6	9
7	1

Set B

Result	Frequency
3	3
4	12
5	9
6	8

(a) Liam says,

"Set A has the higher mode."

Is he correct?

You **must** show your working.

					(2)
					• • •
(b)	Liam says,				
	"Set A has the l	arger range."			
	Is he correct? You <b>must</b> show your wo	orking.			
					 (2) (Total 4 marks)
					,
<b>Q4.</b> A, B	and C are sets of three care	ds.			
(a)	Set B has the same <b>tot</b> . Set B has the same <b>me</b>				
	Complete the cards in S	et B.			
	Set A	12	18	15	
	Set B	20			
					(2)
					(2)

(b) Set C has the same **total** as Set A. Set C has the same **range** as Set A.

Complete the cards in Set C.

Set A	12	18	15	
Set C	17			
				(2) (Total 4 marks)

**Q5.**50 cars arrive at a car park.

The table shows the number of people in each car.

Number of people	Number of cars
1	9
2	12
3	18
4	7
5	4

(a)	One of the cars is chosen at random.  Work out the probability that there are <b>more than 3</b> people in the car.  Answer	(2)
(b)	Work out the total number of people in the 50 cars.	

		Answer	
		Allower	(2) (Total 4 marks)
Q6.	Lilly	rolls four ordinary six-sided dice.	
	Lilly		
		She records the numbers rolled.	
		The mode of the numbers is one more than the median.	
	Wor	k out a possible set of four numbers she could have rolled.	
		Answer	(Total 2 marks)
Q7.			
	(a)	Lilly rolls four ordinary six-sided dice.	
		She records the numbers rolled.	
		The mode of the numbers is one more than the median.	
		Work out a possible set of four numbers she could have rolled.	
		Answer	(2)
			(2)

(b) Meg has one ordinary six-sided dice. She rolls it 50 times and records each score in this table.

Score	Frequency	
1	10	
2	7	
3	9	
4	5	
5	8	
6	11	

	Work out the I	mean score.				
					(Total 5	(3) marks)
<b>Q8</b> .Adam	saved these an	nounts				
Qu'i taaiii	£124	£79.50	£122.50	£96	£85	
(a)	Work out the	range.				
		Answer £			•••	(2)
(b)	Matthew save	ed <b>half</b> as much as	s Adam.			
	Work out the t	total amount that	Matthew saved.			

Q9.A bag

	Ans	wer £			
					(3) (Total 5 marks)
	nas 12 counters.				
They	are pink (P), white	(W), green (G) or ye	llow (Y).		
		(P) (W)	(G) (	Y	
		(G) (P)	P (	Y	
		P (W)	<b>G</b> (	Y	
	counter is taken fro w counter is then ac				
The r	node is now yellow				
(a)	What colour count Circle your answer				
	Pink	White	Green	Yellow	(1)
					( )
(b)	What colour count Circle your answer				
	Pink	White	Green	Yellow	(1) (Total 2 marks)

## **Q10.**Here is some information about tourism in 2012

Country visited	Number of tourists (millions)	Total spent by tourists (\$ millions)
France	83.0	53 600
USA	67.0	126 200
Spain	57.7	55 900

(a)	How many <b>more</b> tourists visited France than Spain?							
	Answer million	(2)						
(b)	21% of the total spent by tourists in the USA was by Canadians.  Work out the amount spent by Canadian tourists in the USA.							
	Answer \$ million	(2)						
(c)	In the UK the total spent by tourists was \$36 600 million. There were 29.3 million tourists.	(2)						
	Work out the average spent per tourist in the UK. Give your answer to the nearest \$10							

Answer \$	(3)
	(Total 7 marks)
Q11.I am thinking of three positive numbers.	
The mode is 5	
The median is 5	
The range is 9	
Work out the three numbers.	
Answer,,	
	(Total 2 marks)
Q12.Here are the marks of a student in four exams.	
65 80 76 69	
The student takes a fifth exam. His mean mark for the five exams is 70	
Work out his mark in the <b>fifth</b> exam.	
Answer	(T-1-10
	(Total 3 marks)

Q13. Here are five numbers.

	5	9	10	7	9	
(a)	What is th	e mode?				
		Answ	er			 (1)
(b)	Show clea	ırly that the ı	median is 9.			 
						  (1) (Total 2 marks)
<b>014</b> Here a	are two sets	s of cards				
<b>414.</b> 11616 6	Set A	4	7	6	X	
	Set B	2	5	1	X	
		value on bo				
Work	out the val	ue of X.				

(Total 2 marks)

(3)

Q15.	Put th	e numbers 1	1, 2 or 3 (	on each	card so t	hat					
	<ul> <li>each number is used at least once</li> <li>the mode of the numbers is 2.</li> </ul>										
										(Total 2	2 marks)
Q16.	Mrs S	Shah buys p	epper pla	ants.							
		are the nun			she arow	s from 1	0 plants				
	10		11	10	12	15	13	12	11	10	
	(a)	Work out the			12	10	10	12	• • •	10	
			Ans	swer							(2)
	(b)	Work out the	he mean								

(c) Mrs Shah buys some more pepper plants. She says,

Answer .....

"On average, I should get about 12 peppers from each plant."	
Give a reason why her data shows she is correct.	
	(4)
	(Total 6 marks)