## **S054 Averages and range** Q1. Here are the ages, in years, of 10 children. 2 6 3 5 6 6 (a) Find the mode. ..... years (1) (b) Work out the median. ..... years (2) (c) Work out the range. ..... years (2) (Total for question = 5 marks) Q2. Here is the number of goals a hockey team scored in each of 10 matches. 3 5 Find (i) the median (ii) the range

(Total for Question is 6 marks)

(iii) the mean

1 1.5	
1.1.7	

phone last Satur		iudeni in	nei cias	s to recoi	ra the hui	mbers or t	ines iney	usea me	ii mobile
Here are the res	ults for	the boys.							
Boys	8	10	8	9	7	9	8	13	14
(a) Work out the	e media	n.							
Here are the res	sults for	the girls.							(2)
Girls	6	8	9	9	10	14	14		

(4)

(Total for question = 6 marks)

<sup>\*(</sup>b) Compare the numbers of times the boys used their mobile phones with the numbers of times the girls used their mobile phones.

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1	<b>a</b>	л	
м		-	_

Here are the h	eights, in	metres,	that 10 i	men jump	oed in a l	nigh jum <sub>l</sub>	p compe	tition.		
2.19	2.23	2.23	2.23	2.26	2.28	2.29	2.29	2.31	2.33	
(a) For these	heiahts. f	ind								
	_									
(i) the mode	,									
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(ii) the mear	١,									
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(iii) the rang	e.									
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		• • • • •		. 1			40	•		Τ,
n a high jump ecorded.	competit	ion for w	omen, tr	ne neight	s, in meti	res, that	10 wom	en jumpe	a were	
For these heigh	ahts									
the mean	_	m								
the range										
ano rango	Wao 0.10	, , , ,								
(1.)		- 41 - 441 -		1 . 20					. 1	
(b) Compare tl	ne neight	s that the	e men ju	mpea wit	n the nei	gnts that	t the wor	nen jump	ea.	
									(	2)

(Total for Question is 6 marks)

The list	shows the n	number of g	oals score	d by Kevin	's hockey te	eam in eacl	n of 8 matcl	nes.	
	2	1	7	2	12	6	2	4	
(a) Find	I the mode.								
(b) Wor	k out the rar	nge.							(1
	th match, Ke		-	_		nes.			(2

(Total for Question is 5 marks)

(2)

Q5.

	3	1	4	2	0	1	1	1	3	2	
(a)	Write down	the mod	de.								
(b)	Work out th	e mean	number	of goals	for the f	irst 10 g	ames.				(1
` ′											

In the 11th game the team scored 4 goals. In the 12th game the team scored 2 goals.

Q6.

\*(c) Will the mean number of goals for the 12 games be greater than or less than the mean number of goals for the first 10 games? You must explain your answer.

(2)

(2)

Seven people entered a singing competition.  Here are the number of points that each of the first six people scored.  10 8 5 13 18 15  (a) Work out the range for these six people.	
10 8 5 13 18 15	
(a) Work out the range for these six people.	
(2	2)
(b) Work out the median for these six people.	
(2	2)
The mean for the <b>seven</b> people was 12	
(c) Work out how many points the seventh person scored.	

(Total for Question is 6 marks)

(2)

## Q8.

The table gives information about the time it took each of 80 children to do a jigsaw puzzle.

	Number of children	Mean time (minutes)
Boys	32	32.4
Girls	48	28.4

Work out the mean time for all 80 children.

(Total for Question is 3 marks)

## Q9.

- 4 red bricks have a mean weight of 5 kg.
- 5 blue bricks have a mean weight of 9 kg.
- 1 green brick has a weight of 6 kg.

Donna says,

"The mean weight of the 10 bricks is less than 7 kg."

Is Donna correct?

You must show how you get your answer.

(Total for question = 3 marks)

The mean age of the 15 child The mean age of	ildren at a birthday pa of the 15 children is 7 y ren are boys. of the boys is 5 years. ean age of the girls.	-		
				years
Q11.			(Total for o	question = 3 marks)
At the end of 11	s a basketball team. games, their mean so games, their mean so			
Is Jordan right? You must show	"Walkden Reds must how you get your ans	•	points in their 11th gar	me."

(Total for question is 3 marks)

Q10.

20 men, 10 women and 10 children are in a competition.	
The mean score for the women is 15.6 The mean score for the children is 9.2	
Kevin says that the mean score for all 40 people is 11.2	
(a) Work out the mean score for the men.	
	(3)
Kevin was wrong.	(0)
The mean score for all 40 people was actually 11.15	
(b) How does this affect the mean score for the men?	
	(1)
	(Total for question = 4 marks)
Q13.	
Mr Drown gives his close a test	
Mr Brown gives his class a test. The 10 girls in the class get a mean mark of 70%	
The 15 boys in the class get a mean mark of 80%	
Nick says that because the mean of 70 and 80 is 75 then the	mean mark for the whole
class in the test is 75%	
Nick is not correct.  Is the correct mean mark less than or greater than 75%?	
You must justify your answer.	

(Total for question = 2 marks)

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Q12.