Mean, Median, Mode and Range-Questions

Key Stage 3: 2003 Paper 1 Level 3-5

1.

18. (a) There are four people in Sita's family.

Their shoe sizes are 4, 5, 7 and 10

What is the median shoe size in Sita's family?

1 mark

(b) There are three people in John's family.

The range of their shoe sizes is 4

Two people in the family wear shoe size 6

John's shoe size is not 6 and it is not 10

What is John's shoe size?

1 mark

Key Stage 3: 2003 Paper 1 Level 4-6

13. (a) There are four people in Sita's family.
Their shoe sizes are 4, 5, 7 and 10
What is the median shoe size in Sita's family?



(b) There are three people in John's family.
The range of their shoe sizes is 4

Two people in the family wear shoe size 6 John's shoe size is **not 6** and it is **not 10**

What is John's shoe size?



Key Stage 3: 2005 Paper 1 Level 3-5

12 . (a)	There are two children in the Smith family.	
	The range of their ages is exactly 7 years.	
	What could the ages of the two children be?	
	Give an example.	
	and	
	and	1 mark
(b)	There are two children in the Patel family.	
204	They are twins of the same age.	
	What is the range of their ages?	
	years	1 mark

19 . (a)	Look at these three numbers.	
	9 11 10	
	Show that the mean of the three numbers is 10	
•		
		1 mark
-	Explain why the median of the three numbers is 10	
		1 mark
(b)	Four numbers have a mean of 10 and a median of 10, but none of the numbers is 10	
	What could the four numbers be? Give an example.	
	Give all example.	
		1 mark

Key Stage 3: 2005 Paper 1 Level 4-6

5.	(a)	There are two children in the Smith family.
		The range of their ages is exactly 7 years.
		What could the ages of the two children be?
		Give an example.
		and
	(b)	There are two children in the Patel family.
		They are twins of the same age.
		What is the range of their ages?
		No.
		years 1 mark

12 . (a)	Look at these three numbers.	
	9 11 10	
1	Show that the mean of the three numbers is 10	
		1 mark
1	Explain why the median of the three numbers is 10	
		1 mark
(b)	Four numbers have a mean of 10 and a median of 10, but none of the numbers is 10	
	What could the four numbers be? Give an example.	
		1 mark
Key Stag	<u>e 3: 2006 Paper 1 Level 4-6</u>	

		'What is you	ur favourite spo	rt?'	
Н	lere are his res	ults.			
	football	cricket	football	hockey	swimming
	hockey	swimming	football	netball	football
E	Yes xplain how you				
o) Is	s it possible to	work out the mo	de of these resu	ults?	
o) Is	s it possible to			ults?	

Key Stage 3: 2007 Paper 2 Level 3-5

	Ali	Claire	Kiki	Suki	
	Brian	Claire	Lucy	Tom	
	Claire	James	Ryan	Tom	
a) What	name is the mo	de?			
			lifferent person	n joins the company	į.
o) One p		e company. A d		n joins the company	L.
o) One p Now t	erson leaves the	e company. A d	om.	n joins the company	<i>(</i> -

Key Stage 3: 2007 Paper 2 Level 4-6

	Ali	C	Claire	Kiki	Suki	
	Bri	ian C	Claire	Lucy	Tom	
	Cla	aire Ja	ames	Ryan	Tom	
(a)	What name is t	the mode ?				
(b)	One person lea			rent person jo	ins the compa	iny.
	Write the missi	ing names in t	the sentence	e bolow		
				s below.		
	,	of the person		is		

16. The table shows the temperatures in 10 cities on a day in December.

City	Temperature in °C
Athens	18
Barcelona	16
Berlin	7
Brussels	8
Dublin	9
Geneva	6
Madrid	12
Moscow	2
Paris	6
Rome	19

(a) Which temperature was the mode?



1 mark

(b) In a different city, the temperature was 5°C lower than in Moscow.
What was the temperature in this city?



mark

Key Stage 3: 2008 Paper 1 Level 4-6

9. The table shows the temperatures in 10 cities on a day in December.

City	Temperature in °C
Athens	18
Barcelona	16
Berlin	7
Brussels	8
Dublin	9
Geneva	6
Madrid	12
Moscow	2
Paris	6
Rome	19

(a) Which temperature was the mode?

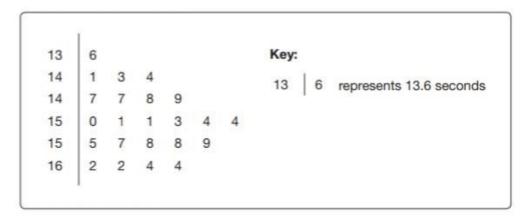


(b) In a different city, the temperature was 5°C lower than in Moscow.
What was the temperature in this city?



25. A pupil recorded the times of 23 people running the 100 metres.

The stem-and-leaf diagram shows the results.



(a) Two of the people ran the 100 metres in 14.7 seconds.

How many of them ran the 100 metres faster than this?

_____ people _____

(b) What was the range of times?

seconds 2 marks

Key Stage 3: 2008 Paper 2 Level 4-6

21.	Gita	threw	three	darts
21.	Gila	LINEVV	unee	uarts

Use the information in the box to work out what numbers she threw.

The lowest number was 10

The range was 10

The mean was 15

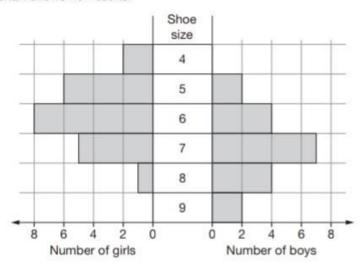
Gita's numbers were _____, ____ and _____

Key Stage 3: 2009 Paper 2 Level 3-5

Kim asked some pu

To the nearest whole number, what is your shoe size?

The chart shows her results.



(a)	How	many	pupils	had	size	6	shoes
-----	-----	------	--------	-----	------	---	-------

-	
_	 7

(b)	Kim asked	more girls	than boys
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How many more?

-	
	 1 mark

(c)	Who	had	the	bigger	range	of	shoe	sizes?
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-	Girls	Boys	Both the same
	31	18	8

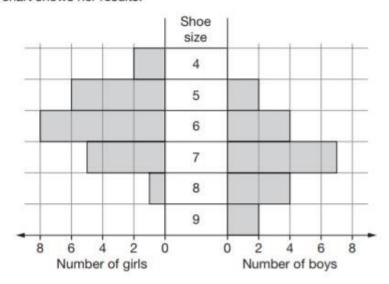
Explain your answer.

1 mark

Kim asked some pupils:

To the nearest whole number, what is your shoe size?

The chart shows her results.



(a) How many pupils had size 6 shoes?

1 mark

(b) Kim asked more girls than boys.

How many more?

1 mark

(c) Who had the bigger range of shoe sizes?

1

Girls

Boys

Both the same

Explain your answer.