Name:

Exam Style Questions

Mean, Median, Mode and Range



Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 50

Video 53

Video 56

Video 57





James has a spinner that has sections labelled 1 to 5. He spins the spinner 10 times.

Here are his scores.

1 4 4 2 3 4 5 1 4 1

(a) Find the mode.

4 (1)

(b) Work out the mean.

(c) Work out the range.

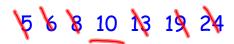
4 (2)



Simone records the number of minutes she spends on her mobile phone over 7 days.

8 5 13 6 24 19 10

Find the median.

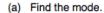






Here are the ages of 9 children at a birthday party.

10 12 13 10 11 14 15 10 12





(b) Find out the median.



12

(c) Work out the range.

(d) Work out the mean.

$$10 + 10 + 10 + 11 + 12 + 12 + 13 + 14 + 15 = 107$$

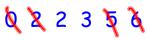
 $107 \div 9 = 11.888888...$ 11.89 to 2 decimal places

A football team played six games.



Here are the number of goals they scored in each game:

- 6 0 3 2 2 5
- (a) Work out the median number of goals scored.



(b) Work out the mean number of goals scored.

$$6 + 0 + 3 + 2 + 2 + 5 = 18$$

 $18 \div 6 = 3$

The football team play one more game. The mean number of goals scored increases to 4.

(c) Work out the number of goals scored in the seventh game.

One more game, would be the 7th $7 \times 4 = 28$ goals in total They have scored 18 so far 28 - 18 = 10

10

(2)

5.

Miss Jones gives her class a test. The test is out of 40 marks.

Here are their scores.

31 29 20 35 32 38 32

(a) Work out the mode.

32

(b) Work out the median.

20 29 31 32 32 35 38

32

(c) Work out the range.

38 - 20 = 18

18

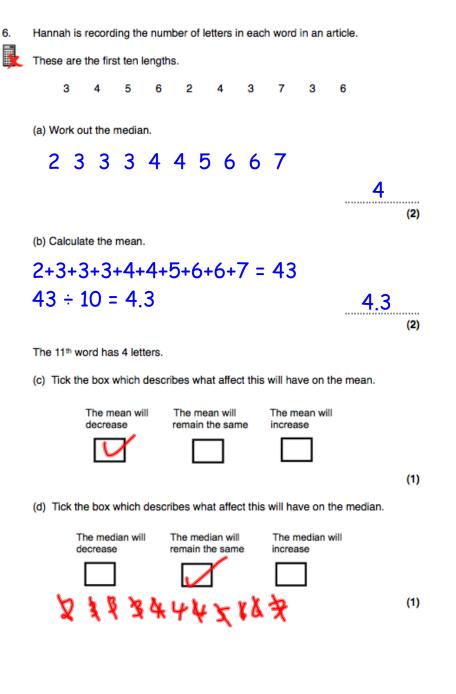
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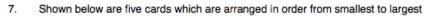
The pass mark for the test is 75%.

(d) How many students pass the test?

20 29 31 32 32 35 38

5







5

5

8

8

9

The range of the cards is 4.
The median of the cards is 8.

The mean of the cards is 7.

middle alds up to 5x7=35

Work out the 4 missing numbers.

5 8 8 and Q

8. 8 boys and 8 girls from a class run 100m.



The times taken, to the nearest second, for each girl are:

15 20 24 18 19 21 26 29

The mean of the boys' times is 25 seconds. The range of the boys' times is 14 seconds.

Thomas says that "the boys in our class are faster than the girls."

Is he correct?

girls mean: 21.5 seuls girls range: 14 seurs

Yes. The mean time for the girls to run 100m is 21.5 seconds, which is less than the mean time for the boys. Therefore on average the girls were faster. The ranges for both the boys and girls are equal which suggests there are no outliers that are affecting the mean.

9. A set of six numbers have a median of 5.



All of the numbers are even. The range of the numbers is 6.

The mode of the numbers is 4.

Write down a possible set of six numbers.