

Find the mean, median, mode and range from a list of numbers

Maths

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Mean, median, mode and range

1. The heights of 5 plants are listed in centimetres.

32.5 21.7 38.6 19.2 38.1

Amir is trying to find the range and median.

Here are his answers.

Range = 5.6 cm

Median = 38.6 cm

What mistakes has he made?

2. Find the mean and mode for each of the following lists.

a) 7, 3, 9, 2, 8, 1

b) 2.8, 3.2, 2.9, 7.1, 2.9, 1.1

c) 0, 0.5, 0.1, 0, 0.5, 0.4



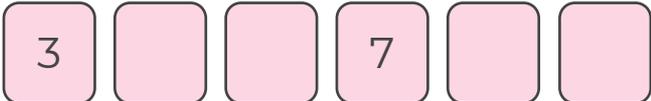
Mean, median, mode and range

3. Complete the following.

- Write down a list of 4 different numbers that have a mean of 4.
- Write any 4 different numbers that have a mean of 4 and range of 9
- Write down a list of 4 different numbers that have a mean of 4 and median of 4.5

4. Six numbers have a mean of 7 and a range of 12

Four of the numbers are 8, 9, 10 and 12. Write down two possible values for the other two numbers.

5. 

The range of the cards is 14

The median of the cards is 7

The mean of the cards is 8.5

Find values for the blank cards.



Answers



Mean, median, mode and range

1. The heights of 5 plants are listed in centimetres.

32.5 21.7 38.6 19.2 38.1

Amir is trying to find the range and median.

Here are his answers.

Range = 5.6 cm

Median = 38.6 cm

What mistakes has he made?

He has not ordered the numbers in ascending or descending order.

For range he needs to work out $38.6 - 19.2$

2. Find the mean and mode for each of the following lists.

a) 7, 3, 9, 2, 8, 1

Mean = 5

Mode = none

b) 2.8, 3.2, 2.9, 7.1, 2.9, 1.1

Mean = 3.33

Mode = 2.9

c) 0, 0.5, 0.1, 0, 0.5, 0.4

Mean = 0.25

Mode = 0 and 0.5



Mean, median, mode and range

3. Complete the following.

a) Write down a list of 4 different numbers that have a mean of 4.

10 solutions. Numbers must sum to 16

b) Write any 4 different numbers that have a mean of 4 and range of 9

1, 2, 3, 10

c) Write down a list of 4 different numbers that have a mean of 4 and median of 4.5

1, 4, 5, 6

4. Six numbers have a mean of 7 and a range of 12

Four of the numbers are 8, 9, 10 and 12. Write down two possible values for the other two numbers.

0 and 3

5.



The range of the cards is 14

The median of the cards is 7

The mean of the cards is 8.5

Find values for the blank cards.

