

Study the following.

mean (**meen**) - another name for an average.

median (**mee-dee-uhn**) - the middle number when a group of numbers is put in order. If there are two middle numbers, the median is the average of the two middle numbers.

mode (**mohd**) - the number that shows up most often in a group of numbers.

range (**raynj**) - the largest number minus the smaller number in a group of numbers.

Say each word out loud and write it in the blank.

mean _____
median _____
mode _____
range _____

Write each definition in your own words.

mean

median

mode

range

Write two sentences using each word.

mean

1.

2.

median

1.

2.

mode

1.

2.

range

1.

2.

Matching.

mean-

numbers is put in order

median-

the number that shows up most often in a group of numbers

mode-

another name for an average

range-

the largest number minus the smaller number in a group of numbers.

the middle number when a group of

Study the following.

The following is an example of a group of numbers, and how you find the mean, median, mode and range.

2,2,3,4,4,7,9,12,12,14,16,16,16,18,20

There are 15 numbers.

mean: to find the mean, add up all the numbers and divide by 15.

$$155/15 = 10.\bar{3} \text{ so rounded to tenths, the mean is } 10.3$$

median: the middle number is 12 so the median is 12

mode : there are three 16's, so the mode is 16

range: the largest number is 20 and the smallest is 2, so the range is

$$20 - 2 = 18. \text{ The range is } 18.$$

Calculate the mean, median, mode and range for the following.

1. 6, 7, 7, 7, 8, 10, 13, 14, 15, 17, 17, 20, 22

2. 1, 1, 3, 3, 3, 3, 4, 4, 6, 7, 8

Study the following.

The following is an example where there is two middle numbers.

3, 4, 5, 7, 10, 10

There are 6 numbers.

mean: to find the mean, add up all the numbers and divide by 6.

$$39/6 = 6.5 \text{ , so the mean is } 6.5$$

median: the middle two numbers are 5 and 7.

When you average 5 and 7 you get $12/2$ equals 6, so the median is 6

mode : there are two 10's, so the mode is 10

range: the largest number is 10 and the smallest is 3,

$$10 - 3 = 7, \text{ so the range is } 7.$$

Calculate the mean, median, mode and range for the following.

1. 2, 4, 4, 7, 9, 10, 12, 14

Study the following.

Sometimes there is no mode, or there is more than one mode.

3, 4, 5, 6, 13, 15 no mode.

20, 20, 24, 25, 27, 27, 30, 35 two modes, 20 and 27.

Calculate the mean, median, mode and range for the following.

1. 3, 6, 7, 9, 12, 14, 17

2. 2, 2, 2, 4, 4, 6, 7, 8, 9, 9, 9, 10