

Name: Class:

Find the mode, mean, median, and range



a. Find the mode of the data set : 2, 3, 4, 3, 4, 6, 6, 6

b. Find the mean of the data set : 22, 29, 32, 37, 40, 34,

c. Find the median of the data set : 31.1, 40.2, 43.5, 33.7, 36.2, 31.1, 30.3, 38.2, 39.2, 44.5

d. Find the range of the data set : 12.01, 16.02, 10.75, 11.25, 17.03, 12.01, 19.51



Name: Class:

Find the mode, mean, median, and range



a. Find the mode of the data set : 2, 3, 4, 3, 4, 6, 6, 6

Let's first of all arrange the numbers in an increasing order

2, 3, 3, 4, 4, 6, 6, 6.

Since the mode is the number that occurs the most in a set of values, it means the mode of our set is 6 since it occurs three times.

b. Find the mean of the data set : 22, 29, 32, 37, 40, 34,

Let's first of all count the number of values in the data set

There are 7 numbers altogether.

Now, let's find the sum of all the numbers in the data set.

$$22 + 29 + 32 + 37 + 36 + 40 + 34 = 230$$

$$\text{Finally, the mean} = \frac{\text{Sum of all numbers}}{\text{Number of values in the data set}} = \frac{230}{7} = 32.86$$

So, the mean is 32.86

c. Find the median of the data set : 31.1, 40.2, 43.5, 33.7, 36.2, 31.1, 30.3, 38.2, 39.2, 44.5

Let's first of all start by arranging the numbers in an increasing order.

30.3, 31.1, 31.1, 33.7, 36.2, 38.2, 39.2, 40.2, 43.5, 44.5

Now, let's find the median by picking out the number in the middle

You see we have 36.2 and 38.2 in the middle

So, we have to add 36.2 and 38.2 and divide by 2 to have the median

$$\text{Median} = \frac{36.2 + 38.2}{2} = 37.2$$

So, the median is 37.2

d. Find the range of the data set : 12.01, 16.02, 10.75, 11.25, 17.03, 12.01, 19.51

Let's first of all start by arranging the numbers in an increasing order.

10.75, 11.25, 12.01, 12.01, 16.02, 17.03, 19.51

Now, let's find the range by subtracting the lowest number from the highest number in the set

You see that the lowest number is 10.75 and the highest number is 19.51

So, we have to subtract 10.75 from 19.51

$$\text{Range} = 19.51 - 10.75 = 40.25$$

So, the range is 40.25

