Describing Data Using Mean, Median, Mode, and Range

You can summarize a data set using the mean, median, mode, and range.

EXAMPLE: Tamir recorded the number of baskets he scored in each of his basketball games.

Here is his data set: **4 2 5 7 1 2 0 3**

The **mean** is the average of the values in a data set. To find the mean, add all of the values in the data set. Then, divide by the number of values in the set.

$$\frac{4+2+5+7+1+2+0+3}{8} = \frac{24}{8} = 3$$

Here, the mean is 3.

The **median** is the middle number. To find the median, put the values in order from least to greatest and find the middle. If there are two values in the middle, find their mean.

0, 1, 2, 2, 3, 4, 5, 7

$$\frac{2+3}{2} = 2.5$$

Here, the median is 2.5.

The **mode** is the number that appears the most in a data set. To find the mode, it may help to order the numbers from least to greatest.

0, 1, **2**, **2**, 3, 4, 5, 7

Here, the mode is 2.

The **range** is the difference between the largest value and the smallest value in a data set. To find the range, subtract.

7 - 0 = 7

Here, the range is 7.

Directions: Find the mean, median, mode, and range for each data set.

1. Kelsey's dog just had puppies! The veterinarian recorded the weight of each puppy in ounces.

8 11 12 7 7 11 7

Mean = _____ Median = _____ Mode = _____ Range = _____

2. Destin records the high temperature in Millerville each day, according to his weather app.

62°F 66°F 63°F 71°F 62°F 72°F 68°F 64°F

Mean = _____ Median = _____ Mode = _____ Range = _____

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Directions: Keep going! Find the mean, median, mode, and range for each data set.

3. Leo keeps track of his scores on his weekly math quizzes. Here are his most recent quiz scores.

60 80 60 70 90 100 70 80 70 100

Mean = _____ Median = _____ Mode = _____ Range = _____

4. The principal records the number of cans collected by each class for the annual food drive.

48 60 52 54 59 55 52 52

Mean = _____ Median = _____ Mode = _____ Range = _____

5. Eli is shopping for a new tablet. He writes down the price of each tablet he considers buying.

$74 $110 $108 $77 $89 $95 $80 $95

Mean = _____ Median = _____ Mode = _____ Range = _____

6. The owner of Tex's Taco Truck tracks the total number of tacos sold each day at lunch.

64 72 80 60 53 51 77 65 76 78 50

Mean = _____ Median = _____ Mode = _____ Range = _____

7. Franco's volleyball coach recorded the height, in inches, of each of the players on the team.

65 58 62 68 68 63 67 58 66 61 68

Mean = _____ Median = _____ Mode = _____ Range = _____

8. Celine keeps track of how much money she earns at each of her babysitting jobs.

$35 $25 $45 $30 $45 $30 $25 $40 $30 $35

Mean = _____ Median = _____ Mode = _____ Range = _____