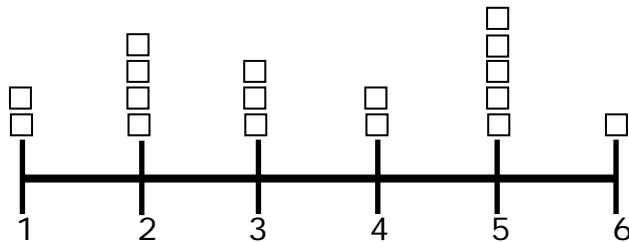


Name _____

Date _____

Mean, Median, and Range From Data Displays - Step-by-Step Lesson

The dot plot shows the number of oranges each person ate. Describe the data by explaining the **mean, median and range**.



Explanation:

Step 1) The "mean" is the average of the data. To find the mean, add up all the data and then divide by the number of instances of the data you have.

$$\text{Mean} = \frac{\text{Sum of elements in set}}{\text{Number of elements in set}}$$

The "middle" value of the data is called the median. The first step to determining the median is to order the data from least to greatest.

1, 1, 2, 2, 2, 2, 3, 3, 3, 4, 4, 5, 5, 5, 5, 5, 6

$$\text{Median} = \frac{\text{Number of element in set} + 1}{2}$$

The difference between the smallest and largest data is called the range.

$$\text{Step 2) mean} = \frac{58}{17} = \frac{1 + 1 + 2 + 2 + 2 + 2 + 3 + 3 + 3 + 4 + 4 + 5 + 5 + 5 + 5 + 5 + 6}{17}$$

$$\frac{58}{17} = 3.4$$

17 pieces of data

Median = $\frac{17 + 1}{2} = \frac{18}{2} = 9$ (This means the median is the 9th number in the data list) 1, 1, 2, 2, 2, 2, 3, 3, **3**, 4, 4, 5, 5, 5, 5, 5, 6

$$\text{Range} = 6 - 1 = 5$$

