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Objective:

TSWBAT make a frequency table, line plot and find range.

objective

Vocabulary

frequency table: a table that lists each item in a data set with the number of times the item occurs.

line plot: a graph that shows the shape of a data set by making x's above each data value on a number line.

range: the difference between the least and greatest values in a data set.

vocabulary

Making a Frequency Table

Make a frequency table of the classes favorite colors.

Favorite Color

Color	Tally	Frequency
blue	I	1
green	II	2
orange		0
purple	~~IIII~~ ~~IIII~~ ~~IIII~~ III	18
red	I	1
yellow	I	1

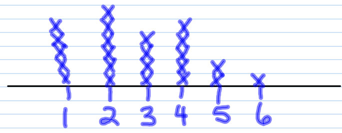
frequency table

Making a Line Plot

Create a line plot with the data given below.

Your cousin works at a movie rental store and is trying to keep track of the number of DVD's each customer rents. The numbers below are the number of rentals each customer rents.

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



- Each x represents one customer.
- The numbers below the line represent the data range which is from 1 to 6.

Find the range, mean, median, and mode of the data above.

Range = 6-1=5 Mode= 2

Mean= 65÷23=2.83 Median= 3

Practice:

Make a line plot of the number of phone calls made by employees in one day: 2, 3, 0, 7, 1, 1, 9, 8, 2, 8, 1, 2, 8, 7, 1, 8, 6, 1.
Find the mean, median, mode, and range of the data.

line plots

Finding Range

In 1849 and 1850, six different surveyors made the following measurements of the height of Mount Everest.

28,990 ft; 28,992 ft; 28,999 ft; 29,002 ft; 29,005 ft; 29,026 ft

Subtract the least value from the greatest value.

29,026− 28,990= 36 ft.

Practice:

Find the range of the sets of data.

a. 36, 21, 9, 34, 36, 10, 4, 35, 5, 30, 28, 27, 5, 10

b. 0.12, 0.11, 0.16, 0.15, 0.20, 0.18, 0.24, 0.70

Range