

Lesson 9-1 and 9-2 : Mean, Median, Mode and Range

SWBAT: Collect data and find the measures of central tendency

Mean:

- _____ . Known as the average.

Ex: On 4 days it rained 2 in, 4 in, 5 in, and 1 in. Find the mean amount of rain.

- Add the numbers:
- Divide by how many numbers are in the list:
- Mean =

Median:

- _____ .
- _____

Ex: 25, 9, 4, 13, 7

- First put the numbers in order:
- Now find the number exactly in the middle:

Ex: 18, 2, 11, 9

- If there are two numbers in the middle, find the average of those numbers. Find what is exactly between those two numbers
- Median =

Mode:

- _____ .
- You can have one mode, several modes or no mode in your data set.

Ex: 2, 5, 1, 8, 12, 8, 8, 2

- I can see that the numbers 8 and 2 repeated themselves, but the number 8 repeated itself the most so 8 is the mode.

5, 9, 11, 9, 3, 5

- The numbers 5 and 9 both have the same number of times repeated so the mode will be 5 and 9.

4, 9, 3, 7, 6, 10

- No number is repeated more often than any other number so there is no mode.

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Range:

- _____.

Ex: 3, 7, 12, 4, 9, 15, 8

- 15 is the largest number and 3 is the smallest number so $15 - 3 = 12$

Find the mean, median, mode and range of each data set:

a. 3, 5, 10, 4, 2, 8, 3

b. 12, 5, 7, 3, 9

Mean:

Mean:

Median:

Median:

Mode:

Mode:

Range:

Range:

c. 3, 3, 4, 1, 2, 1, 6, 4

d. 90, 48, 120, 48, 72, 90

Mean:

Mean:

Median:

Median:

Mode:

Mode:

Range:

Range: