

Central Tendency

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There are 3 ways to measure "centers" or averages

- ① Mean - average in everyday life
 - add up all the numbers, divide by the amount of numbers
- ② Median - organize least to greatest, then pick the middle number
 - If there are 2 middles: Add up, divide by 2
- ③ Mode - most common (helps to put in order)
 - you can have more than 1 mode

The range tells us the spread in a data set.
To find the range: largest - smallest

Ex. Find the mean, median, mode and range:

① ~~2, 5, 9, 3, 5, 4, 7~~ 7 numbers in data set

mean: $2 + 5 + 9 + 3 + 5 + 4 + 7 = 35$

$35 \div 7 = 5$

median: 2, 3, 4, 5, 5, 7, 9 median = 5

mode: 5 because 2 5's

range: $9 - 2 = 7$

② 12, 9, 8, 11, 9, 11 6 numbers in data set

mean: $(12 + 9 + 8 + 11 + 9 + 11) \div 6 = 10$

median: 8, 9, 9, 11, 11, 12

 $9 + 11 = 20$ $20 \div 2 = 10$

mode: 9 and 11

Range: $12 - 8 = 4$