6-1 Measures of Central Tendency

Objectives:

   - I can find the mean, median, mode, and range of a data set

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average   middle   most
Mean - Median - Mode

The average on the test was an 84 - mean

The average test score puts you in the middle of the class - median

The average American student starts college at 18- mode

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Measures of Central Tendency

Mean: add up all #'s and divide by how many there are.

Median: When data is in order the middle number.

Mode: number used most

Range: difference between highest and lowest #'s.

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Find the mean, median, mode, and range, for the amount of twitter users in millions in the United States. The data represents the number of users per quarter each year.

2016	2017	2018
Q1: 65	Q1: 69	Q1: 69
Q2: 66	Q2: 68	Q2: 68
Q3: 67	Q3: 69	Q3: 67
Q4: 67	Q4: 68	

mean: 66.2
med: 66.5
mode: 67
range: 2

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Find the mean, median, mode, and range of the amount of iPhones that are purchased each year in millions worldwide:

2009: 20.7   2012: 125   2015: 231.2

2010: 39.9   2013: 150.3   2016: 211.8

2011: 72.3   2014: 169.2   2017: 216.7

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Test scores from a class: 70, 70, 75, 75, 90, 70, 80, 85, 65, 95, 70, 85, 90, 70, 20

20, 65, 70, 70, 70, 70, 70, 75, 75, 80, 85, 85, 90, 90, 95

Mean: 74

Median: 75

Mode: 70

Range: 75

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Find the mean, median, mode, and range of the top 10 paying jobs in the United States in 2018.

Physician: $195,842   Software Development: $108,879

Pharmacy Manager: $146,412   Physician Assistant: $108,761

Pharmacist: $127,120   Software Engineer: $107,479

Enterprise Architect: $115,944   Nurse Practitioner: $106,962

Corporate Counsel: $115,580   Software Architect: $105,329

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Why do we have all of these measures?

Example: On a cul-de-sac, you have 5 houses built for:

$250,000, $180,000, $220,000, $200,000, $1,200,000

Find the median and the mean? Which one is a better measure?

mean: $410,000
median: $220,000

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