



## M2-02: Mean, Median, Mode

Part of the "Exploratory Data Analysis" Learning Badge

Video Walkthrough: <https://discovery.cs.illinois.edu/m2-02/>

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### MEASURES OF CENTER OF A DISTRIBUTION: mean, median, mode

**MEAN (also called the average):** To find the average of a list of numbers you sum all the numbers and divide by how many there are on the list:

**Puzzle #1:** Find the average of this list of numbers: 7, 2, 8, 6, 7

<b>Python:</b>	<pre># Finds the mean of all data in one dataset variable: df['ColumnName'].mean()</pre>
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### SYMBOLS:

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**MEDIAN:** To find the median, list the numbers in order and find the middle number. (Note that with an even number of data points, we really have two "middle" numbers. To find the median in this case, take the average of the two middle numbers.)

**Puzzle #2:** Find the median of this list of numbers: 1, 4, 2, 5, 0

**Puzzle #3:** Find the median of this list of numbers: 0, 5, 6, 10, 11, 12

<b>Python:</b>	<pre># Finds the median of all data in one variable: df['ColumnName'].median()</pre>
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