

DETERMINE THE MEAN, MEDIAN, AND MODE FOR A GIVEN SET OF DATA

- A set of data is a collection of numbers related to a specific topic: scores on a test, weights of objects, high temperatures of the day, students who eat particular lunches, etc.
 - This data can be organized and analyzed using math tools.
- The mean is the numerical average of a set of numbers. It is calculated by adding all the values in a set and then dividing by the number of values.
- The **mode** is the middle value, calculated by ordering the values and determining the value halfway between the first and last value.
 - o The **mode** is the value which occurs most frequently.

How to det set of data

PREVIEW

a given

 To dete values: Please login or register to download the printable version of this study guide.

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o **Stores on a series or tests.** 05, 70, 50, 01, 100, 76

number of

- \circ Add the values \rightarrow 499
- o Divide by the number of values: 499 ÷ 6
- o The mean is 83.17
- To determine the median, order the values and then choose the value in the middle
 - o Scores on a series of tests: 76, 98, 84, 100, 76
 - o Order: 76, 76, 84, 98, 100
 - The median is the "middle" value
 - The median is 84



- To determine the median of an even number of values, order the values, find the middle, and calculate the average between the two middle scores:
 - o Scores on a series of tests: 65, 76, 98, 84, 100, 76
 - o Order: 65, 76, 76, 84, 98, 100
 - The middle of this series is between 76 and 84
 - o The median is the average of 76 and 84
 - o Median = $(76 + 84) \div 2$
 - o The median is 80
- To determine the mode, look for the value which appears most frequently:
 - o Scores on a series of tests: 65, 76, 98, 84, 100, 76
 - Look for the value that occurs most frequently
 - o 2 scores are 76, the other scores occur only once
 - The mode is 76
- It is pos for a sp



same value

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What is the

What is the mode for this set? 43, 54, 54, 23, 43, 43

What is the median for this set? 13, 17, 19, 25, 29

What is the median for this set? 35, 67, 23, 17, 43, 65, 81

What is the median for this set? 45, 32, 51, 34, 25, 30