Introduction to Measures of Central Tendency

Warm-Up Your Task

The number of pennies in each cup represents my scores for five math quizzes.









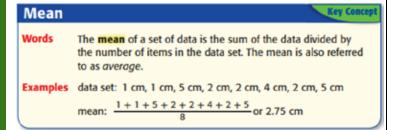


Move the pennies among the cups so that each cup has the same number of pennies.

- 1.) How many pennies would be in each cup? _____
- 2.) If I score 14 points on the next quiz, how many pennies would be in each cup? _____

Mean Your Task

The number used to describe the center of a set of data is a **measure of central tendency**. The most common of these measures is the <u>mean</u>.



- 3.) I earned \$14, \$10, \$12, \$15, and \$13 doing chores. What is the mean amount I earned from these chores?
- 4.) The length of several whales, in feet, are listed below.

46, 53, 33, 53, 79

If a 98-foot Blue Whale is added to this list, which of the following statements would be true?

A: The mean would decrease

B: The mean would increase

C: The mean would stay the same

Check Your Understanding. Click here.

Made by Teacher Carl Slater



Shared by Edutopia

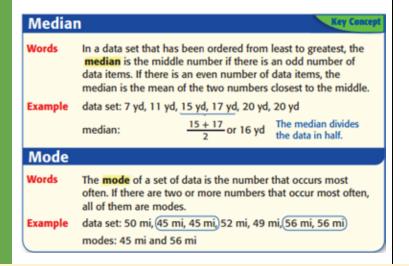
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Median & Mode

Your Task

Two other common measures of central tendency are <u>median and mode</u>.

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The table below lists the bicycle sizes owned by the students in Mr. Slater's class.

Students' Bicycle Sizes (in.)			
20	24	20	26
24	24	24	26
24	29	26	24

5.) What are the mean, median, and mode of the data?

Additional Practice

Find the mean, median, and mode for each set of data. Round to the nearest tenth if necessary.

1. Miles traveled on the weekend: 29, 14, 80, 59, 78, 30, 59, 69, 55, 50

2. Team Number of Wins

Eagles 10

Hawks 8

Zipps 9

Falcons 11

- 4. MULTIPLE CHOICE During the week, the daily low temperatures were 52°F, 45°F, 51°F, 45°F, and 48°F. If Saturday's low temperature of 51°F is added, which statement about the data set would be true?
 - A The mean would decrease.
- C The mode would increase.
- B The median would decrease.
- D The mode would decrease.

Writing about Mathematics. Click Here

