

Algebra I

Measures of Central Tendency

Name \_\_\_\_\_

Show all work on the following problems, and do NOT use a calculator!

Determine the mean, median, and mode of each set of data.

1. 4, 4, 7, 8, 9      mean = \_\_\_\_\_      median = \_\_\_\_\_      mode = \_\_\_\_\_

2. 50, 10, 30, 50      mean = \_\_\_\_\_      median = \_\_\_\_\_      mode = \_\_\_\_\_

3. 6, 12, 15, 8, 10, 4, 1      mean = \_\_\_\_\_      median = \_\_\_\_\_      mode = \_\_\_\_\_

4. 9, 9, 10, 15, 5, 8      mean = \_\_\_\_\_      median = \_\_\_\_\_      mode = \_\_\_\_\_

5. If Mark kicks four goals in his first game, two in his second game, and one in his third game, how many goals must he kick in his fourth game to have an average of three goals?

6. If Keith makes the following scores on his English papers, what grade must he make on the fifth paper to keep an average of 90%?

85    95    100    75

7. Create a data set of at least four data values that has a median of 6 and a mode of 2.

8. Create a data set of at least five data values that has a mean of 10 and a mode of 10.

9. Create a data set of at least four data values that has a median of 8 and a mean of 6.

10. Using your data from yesterday, determine the mean, median and mode for the total number of gold medals.

mean = \_\_\_\_\_

median = \_\_\_\_\_

mode = \_\_\_\_\_

Which of these measures of central tendency best represents the average number of gold medals earned? Why?

11. If you had test scores of 75, 75, 80, and 85, which measure of central tendency would you like to use as your test average? Why?