

Name: _____ Block: _____

Measures of Central Tendency Homework

1. Find the mean, median and mode(s) of the data:
 - a. 21, 15, 16, 25, 13, 18
 - b. 5, 3, 2, 6, 5, 2, 5

2. The heights (in inches) of eight tomato plants are 6, 45, 52, 43, 48, 41, 50, and 48.
 - a. Find the mean, median, and modes(s) of the tomato plant heights.

 - b. Which measure of central tendency best represents the data? Explain.

3. You are planning a trip to Washington D.C. and are looking up hotel room rates. On the internet, you find the following rates for a one-night stay in a hotel in Washington D.C.

\$109, \$126.50, \$175.95, \$139, \$77.50, \$145, \$162.35, \$173, \$181.50, \$105

 - a. Find the mean, median, and mode(s) of the rates.

 - b. Which measure of central tendency best represents the data? *Explain.*

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4. The high and low temperatures for the last seven days are given (in $^{\circ}\text{F}$) below.

High temperatures: 81, 78, 83, 89, 90, 87, 89

Low temperatures: 64, 53, 62, 66, 68, 69, 67

- a. Find the mean, median, and mode of each data set. Round your answers to the nearest tenth.

- b. For each data set, determine which measure of central tendency best represents the data.
Explain.

5. There will be five summative assessments in a given quarter. Karianne wants her average score to be an 85. Her scores on the first four assessments were as follows: 76, 82, 83, 90. What is the lowest score Karianne can receive on her fifth assessment in order to achieve her goal?

6. So far this season, your golfing scores have been 90, 108, 88, 75, 95, and 101. You will golf one more time this season, and want to finish the season with an average of 90 or less.

Write and solve an inequality to find the possible scores you can achieve in order to meet your goal.