How Changes in Data Affect the Measures

FLORIDA GRADE 6 MATH | B.E.S.T. BENCHMARK MA.6.DP.1.6 | STUDENT WORKSHEET

Name: _____ **Date:** _____

Directions: Solve each problem. Show your work in the space provided.

1. Data: 5, 6, 8, 9, 12. The value 30 is added. Which changes more, the mean or the median?

2. Every value in a data set increases by 3. What happens to the mean and the range?

3. An outlier is removed from a data set. What usually happens to the range?

4. Test scores are 70, 75, 80, 85, 90. The 70 is changed to 50. What are the new mean and median?

5. Salaries at a small company include one very high salary. Should you report the mean or the median as typical?

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Answer Key

1. The mean

The mean goes from 8 to 11 $\frac{2}{3}$; the median goes from 8 to 8.5.

2. The mean increases by 3; the range stays the same

3. It decreases

4. Mean 76; median 80

(50 + 75 + 80 + 85 + 90) ÷ 5 = 380 ÷ 5 = 76

5. The median

One extreme value pulls the mean up.

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