ALBERT

Name _____ Date _____

Measures of Center and Variability Worksheet

Grade 6 · Common Core 6.SP.A.3

> Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.

Practice

Builds the skill step by step.

1. Find the mean of 4, 6, 8, 10, 12.

2. Find the median of 3, 9, 5, 7, 1.

3. Find the range of 15, 22, 9, 30, 18.

4. Which is a measure of center?

   A. The range

   B. The interquartile range

   C. The median

   D. The number of values

5. Which is a measure of variability?

   A. The mean

   B. The median

   C. The mode

   D. The range

6. Find the mean of 10, 10, 10, 10.

7. Find the median of 2, 4, 6, 8.

8. Six students read 3, 5, 2, 6, 4 and 4 books. What is the mean number of books?

9. A data set's range is 0. What does that tell you?

   A. All the values are the same.

   B. The mean is 0.

   C. There are no values.

   D. The median is 0.

10. Find the mean of 7, 8, 9.

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On Level

Grade-level practice.

1. Find the mean of 2.5, 3.5, 4, 6.

2. Test scores: 70, 85, 85, 90, 95. Find the mean and the median.

3. Data: 10, 12, 13, 15, 100. Which measure of center best describes a typical value?

   A. The mean, 30

   B. The range, 90

   C. The median, 13

   D. The mean, 13

4. Data: 5, 8, 8, 9, 10, 14. Find the median and the range.

5. The mean of 4 numbers is 12. What is their sum?

6. Heights (cm): 140, 145, 150, 155, 160. Find the mean height.

7. Two data sets have the same mean of 50. Set A has a range of 4 and Set B has a range of 40. Which is true?

   A. The values in Set B are closer to 50.

   B. The values in Set A are closer to 50.

   C. Both sets are equally spread.

   D. Set B has a bigger mean.

8. A runner's times (minutes) for 5 races: 22, 24, 23, 25, 26. Find the mean time.

9. Data: 1, 3, 3, 3, 5, 9. Find the mean, median and mode.

10. Five values have a mean of 6. Four of them are 4, 5, 7 and 8. What is the fifth?

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Challenge

Multi-step and word problems that stretch it.

1. Quiz scores: 8, 9, 10, 7, x. The mean is 8.4. What is x?

2. Data: 12, 15, 18, 21, 24. If every value increases by 5, what happens to the mean and the range?

3. Which data set has a mean of 10 and a range of 4?

   A. 8, 10, 12

   B. 6, 10, 14

   C. 10, 10, 10

   D. 8, 9, 13

4. Salaries at a small company (thousands of dollars): 40, 42, 45, 45, 48, 200. Find the mean and the median, and say which better describes a typical salary.

5. The mean of 6 values is 15. One value, 30, is removed. What is the mean of the remaining 5 values?

6. Which data set has a mean of 7 and a median of 6?

   A. 5, 6, 7, 8, 9

   B. 3, 6, 6, 9, 10

   C. 4, 6, 7, 8, 10

   D. 4, 5, 6, 8, 12

7. Leo says the mean always equals the median. Which data set proves him wrong?

   A. 2, 4, 6

   B. 1, 2, 3, 4, 10

   C. 5, 5, 5

   D. 1, 3, 5, 7

8. Class A's test scores have a mean of 80 and a range of 10. Class B's have a mean of 80 and a range of 40. Which class's scores are more consistent?

9. A basketball player scored 12, 18, 15, 20 and 25 points in 5 games. How many points does she need in game 6 to have a mean of 19?

10. Data: 2, 3, 3, 4, 8. Which is greater, the mean or the median, and by how much?