

Name _____

Spread the Knowledge: Understanding Range, Variance, and Standard Deviation

Multiple Choice Questions

1. What does range measure?

- A) The average of a dataset.
- B) The difference between the largest and smallest values.
- C) The variability of data from the mean.
- D) The square root of the variance.

2. How is variance calculated?

- A) By finding the difference between the largest and smallest values.
- B) By taking the square root of the sum of squared differences from the mean.
- C) By finding the average of the squared differences from the mean.
- D) By dividing the sum of all values by the total number of values.

3. What does standard deviation measure?

- A) The difference between the largest and smallest values.
- B) The average of a dataset.
- C) The square root of the variance.
- D) The variability of data from the mean.

4. What does a higher variance indicate?

- A) That the values are more spread out from the mean.
- B) That the values are closer together.
- C) That the dataset is multimodal.
- D) That the mean is higher.

5. Why are measures of spread important?

- A) They tell us the exact value of each data point.
- B) They make our data look pretty.
- C) They help us find the median.
- D) They give us insights into the variability and spread of our data.

