

Name _____

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

Short Answer Key

1. The range measures the difference between the largest and smallest values in a dataset. It's calculated by subtracting the smallest value from the largest value.
2. Variance is calculated by finding the average of the squared differences between each value and the mean. It tells us how much the values in a dataset differ from the mean.
3. Standard deviation measures how much the values in a dataset deviate from the mean. It's related to variance because it's the square root of the variance.
4. A higher variance indicates that the values in a dataset are more spread out from the mean, while a lower variance means they're closer together.
5. Understanding measures of spread would be useful when analyzing things like exam scores in a classroom or temperatures across different seasons.

