

## Answer on Question #82000 – Math – Statistics and Probability

### Question

Find the variance and standard deviation of ungrouped data in which  $n = 15, \sum(x_i - \bar{x})^2 = 48, \bar{x} = 10$ .

### Solution

Find the variance of ungrouped data

$$\sigma^2 = \frac{\sum(x_i - \bar{x})^2}{n} = \frac{48}{15} = 3.2$$

Find the standard deviation

$$\sigma = \sqrt{\text{variance}} = \sqrt{3.2} \approx 1.789$$