For a Population

$$\sigma = \sqrt{\frac{\sum_{i=1}^{n}(x_i - \mu)^2}{n}}$$

For a Sample

$$s = \sqrt{\frac{\sum_{i=1}^{n}(x_i - \overline{x})^2}{n-1}}$$

Variance

Variance also measures dispersion of data from the mean. The formula for variance is the sum of squared differences from the mean divided by the size of the data set.

For a Population

$$\sigma^2 = \frac{\sum_{i=1}^{n}(x_i - \mu)^2}{n}$$

For a Sample

$$s^2 = \frac{\sum_{i=1}^{n}(x_i - \overline{x})^2}{n-1}$$

Acceptable Data Formats

Type Unit	Your Format Input Options	Actual Input Processed
Column (New Lines)	42 54 65 47 59 40 53	42, 54, 65, 47, 59, 40, 53
Comma Separated (CSV)	42, 54, 65, 47, 59, 40, 53, or 42, 54, 65, 47, 59, 40, 53	42, 54, 65, 47, 59, 40, 53
Spaces	42 54 65 47 59 40 53	42, 54, 65, 47, 59, 40, 53

Spaces	42 54 65 47 59 40 53 or 42 54 65 47 59 40 53	42, 54, 65, 47, 59, 40, 53
Mixed Delimiters	42 54 65,,, 47,,59, 40 53	42, 54, 65, 47, 59, 40, 53