CONCEPT: MEAN EVALUATION

The _____ measures how close data results are in relation to the mean or average value.

$$s = \sqrt{\frac{\sum_i (x_i - \bar{x})^2}{n-1}}$$

____ = Individual Measurement

____ = Number of Measurements

____ = Average or Mean

____ = Degrees of Freedom

_____ = variance

_____ = Relative Standard Deviation (*Coefficient of Variation)*

EXAMPLE: Data below gives the volumes obtained by a chemist from the use of a pipet. Determine the standard deviation.

24.9 mL, 25.0 mL, 24.8 mL, 24.6 mL, 24.6 mL, 24.3 mL

Volume **(x_i)**	**Difference from the mean** $(x_i - \bar{x})$	**Difference from the mean squared** $(x_i - \bar{x})^2$
	$\sum_i (x_i - \bar{x})^2$	