# First Book

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# 1  Variance

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

# 2  Standard Deviation

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

# 3  Standard Deviation

$$\bar{x} = \frac{1}{N} \sum_{i=1}^{n} (x_i)$$