Variance and Standard Deviation

The variance of a discrete random variable is:

$$\sigma_X^2 = \sum_{All\,x} (x - \mu_X)^2 p(x)$$

The standard deviation is the square root of the variance.

$$\sigma_X = \sqrt{\sigma_X^2}$$

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D. J. Kitchener, Agustinus Suyanto

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