

5.6: Chapter 5 Formula Review

5.1 The Central Limit Theorem for Sample Means

The Central Limit Theorem for Sample Means:

$$\bar{x} \sim N\left(\mu_{\bar{x}}, \frac{\sigma}{\sqrt{n}}\right)$$

Mean $\bar{x} : \mu_{\bar{x}}$

Standard Error of the Mean (Standard Deviation): $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$

Central Limit Theorem for Sample Means z-score: $z = \frac{\bar{x} - \mu_{\bar{x}}}{\sigma_{\bar{x}}} = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}}$

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