

## Estimation of $\mu$ :

|             | $\sigma$ is known                               | $\sigma$ is unknown                                                    |
|-------------|-------------------------------------------------|------------------------------------------------------------------------|
| $n > 30$    | $Z = \frac{\bar{x} - \mu}{\sigma_x / \sqrt{n}}$ | $Z = \frac{\bar{x} - \mu}{s / \sqrt{n}} \quad s = \text{Sample Sigma}$ |
| $n \leq 30$ | $Z = \frac{\bar{x} - \mu}{\sigma_x / \sqrt{n}}$ | $t = \frac{\bar{x} - \mu}{s / \sqrt{n}} \quad s = \text{Sample Sigma}$ |