

$$\sigma = 100,000 \quad \bar{x} = 500 \quad n = 30$$

CI = Point Estimate \pm margin

α significance = 0.05

$$= \bar{x} \pm Z_{\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$$

$$= 500 + \frac{0.05}{2} \frac{100,000}{\sqrt{30}}$$

$$= 500 + 0.025 \times \frac{100,000}{5.47}$$

$$= 500 + 1828.17$$

$$Z_{0.025} = 1 - 0.025$$

$$= 0.975$$

$$Z_{table} = 1.96$$

$$\text{Lower Limit} = 500 - 1.96 \times \frac{100,000}{\sqrt{30}}$$

$$= -17758.17$$

$$\text{High Limit} = 500 + 1.96 \times \frac{100,000}{\sqrt{30}}$$

$$= 18758.17$$

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$$m = 972 \quad 957$$

CE 50

602 = R

000,001 = 0

$$- 17758.17 + 18758.77$$

000,001 + 000,001 = 000,002

$$\frac{0}{n} \frac{1}{5} + 30 = 30$$

$$\frac{000,001}{000} \times 70.0 + 602 =$$

$$000,001 \times 70.0 + 602 =$$

$$18758.17 + 18758.77$$

$$70.0 - 1 = 70.0$$

000,001 = 000,001