

Assignment ans:

$$\text{pop S.D} = 100 = \sigma$$

$$n = 25$$

$$\bar{x} = 520$$

$$CI = 80\%$$

$$\alpha = 0.2$$

$$\alpha/2 = 0.1$$

$$Z_{\alpha/2} = ?$$

$$1 - 0.1 = 0.9$$

$$\text{area under curve} = 0.9$$

$$Z \text{ of } 0.9 \text{ from table}$$



$$+1.2 \text{ ap} = 1.2$$

$$\text{lower fence} = 520 - 1.2 \times \frac{100}{\sqrt{25}}$$

$$= \underline{\underline{496}}$$

$$\text{higher fence} = 520 + 1.2 \times \frac{100}{\sqrt{25}}$$

$$= \underline{\underline{544}}$$

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