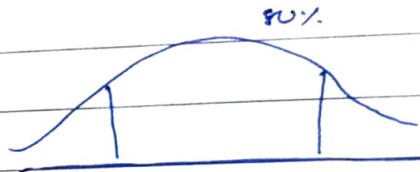


Q. Same Q. C.I = 80%.

Point estimate \pm Margin of error.

$$Z_{\alpha/2} = Z_{0.2/2} = Z_{0.1} = \cancel{0.53983} \underline{\underline{1.282}}$$



$$\text{lower fence} = \bar{x} - Z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$$

$$= 520 - 1.28 \times \frac{100}{20}$$

$$= 520 - 25.6$$

$$= \cancel{545.6} \quad 494.4$$

$$\text{higher fence} = \bar{x} + Z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$$

$$= 520 + 1.28 \times 20$$

$$= 520 + 25.6$$

$$= 545.6$$

Date _____

Page _____

