

So: P(.16LBL.20) = P(-1.64LZL1.64) = 2(.4495)=(.899

(S)
$$E = Z_{N/2} \frac{\sigma_{X}}{\sigma_{M}}$$
 $0.5 = Z.005 \frac{1.8}{\sigma_{M}}$ $0.5 = 2.57 \frac{1.8}{\sigma_{M}} \Rightarrow M = 85.6 \text{ or } (M = 86)$

(B) $E = Z_{N/2} \frac{\rho(1-\rho)}{n}$
 $0.02 = Z_{N/2} \frac{\rho(1-\rho)}{1500} \Rightarrow Z_{N/2} = 1.55$
 $\Rightarrow \frac{1}{2} = .5 - .4394 \Rightarrow 2 = 1.2 \Rightarrow 1 - 1.88 \Rightarrow 880 \text{ C.I.}$

(B) $X_{25} = 83 \text{ C.} = 8 \text{ M} = .05$
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