8)  $\beta = \frac{234}{450} = \frac{13}{25} = \frac{52}{520}$ S.e.  $(\beta) = \sqrt{\frac{52(1-52)}{450}} = \frac{5236}{520}$ 

(0) p= 2, S.e.(p)= \(\frac{12(8)}{120} = (.0365)\)

(1)  $\beta = .22$  $s.e.(\beta) = \sqrt{.22(.75)} = .6338$ 

 $\begin{array}{c} 12) \ \ \hat{p} = .325 \\ \text{Se.($\hat{p}$)} = \int_{-225}^{225} \frac{(.675)}{50} = .0524 \end{array}$ 

23 5.0 ()= 1.126 (1-126) = (017)

21)  $P(.62 \le \hat{p} \le .64) = P(186 \le \times \le 192)$ =  $P(\frac{186 - 189}{9.3624} \le z \le \frac{192 - 189}{8.3624})$ =  $P(.419 \le z \le .419) = (.324)$ 

 $M = 10^{-2} \cdot 63(300) = 189$   $Q = \sqrt{189(1-.63)} = 8.3624$