

$$1. a) n=800 \quad p=.70$$

$$np(1-p) \geq 10$$

$$800(.70)(1-.70) = 168$$

APPROXIMATELY normal

$$\mu_{\hat{p}} = p = .70$$

$$\sigma_{\hat{p}} = \sqrt{\frac{p(1-p)}{n}} = \sqrt{\frac{.70(1-.70)}{800}} = .0162018517$$