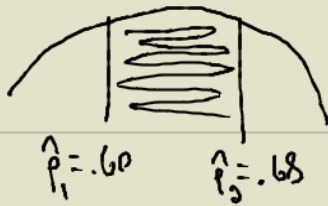


1. d)  $n=800$   $p=.70$



①  $\mu_{\hat{p}} = p = .70$

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

$$= .0162018517$$

②  $\hat{p}_1 = .60$

$$z_1 = \frac{\hat{p}_1 - \mu_{\hat{p}}}{\sigma_{\hat{p}}}$$

$$z_1 = \frac{.60 - .70}{.0162018517}$$

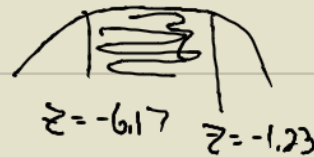
$$z_1 = -6.17$$

$\hat{p}_2 = .68$

$$z_2 = \frac{\hat{p}_2 - \mu_{\hat{p}}}{\sigma_{\hat{p}}}$$

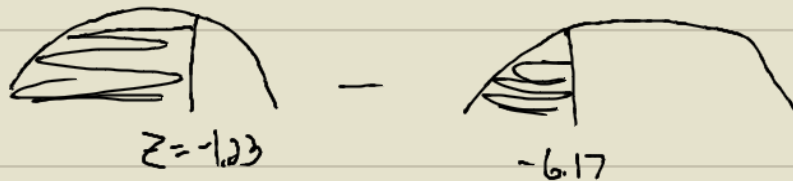
$$z_2 = \frac{.68 - .70}{.0162018517}$$

$$z_2 = -1.23$$



③ CALC:  $NCDF(-6.17, -1.23, 0, 1) = .1093$

HAND:



$$.1093 - .0002$$

$$.1091$$