

640:481 Austin DeLicca L4 Worksheet

1. $P(|\bar{X} - \mu| > .5) \leq .3$

$$.3 = \frac{z^2}{n(.5)^2} = \frac{z^2}{n}$$

Min $n = 4$

2. $P(\bar{X} > \frac{91}{30}) = P(Z > \frac{\frac{1}{30}}{\frac{2}{\sqrt{30}}}) = P(Z > \frac{1}{2\sqrt{30}}) \approx P(Z > .09)$

$\approx .464$