## Sample Size for p:

$$\diamond n \ge \left(\frac{z_{\alpha/2}}{ME}\right)^2 \cdot p \left(1 - p\right)$$

## Confidence Intervals:

- Identify confidence level and test statistic  $\diamond$  Use appropriate standard error function
  - to obtain confidence interval
    - Interpret the confidence
    - interval (in context)

## Sample Size for $\mu$ :

$$\diamond n \ge \left(\frac{z_{\alpha/2} \cdot \sigma}{ME}\right)^2$$

1.65 1.96 2.58

Confidence Level

80% 95% %66

## Hypothesis Testing:

- ♦ Write the hypotheses in words and symbols
  - find test statistic  $(z,t,F,\chi^2)$  and p-value ♦ Use appropriate standard error to
    - $\diamond$  If  $p < \alpha$ , reject  $H_0$  and accept  $H_a$
- $\diamond$  If  $p \geq \alpha,$  not enough evidence to reject  $H_0$

Do your hypotheses

 $\diamond$  Interpret the result in context

