approval rating $p = 0.19$

$n = ?$

Margin of error $= 0.04$

95% Confidence.

Margin of error $= Z * SE$

$$0.04 = 1.96 * \sqrt{\frac{p(1-p)}{n}}$$

$$0.04 = 1.96 * \sqrt{\frac{0.19 \times 0.81}{n}}$$

$$(0.04)^2 = \frac{1.96^2 \times 0.19 \times 0.81}{n}$$

$n =$

Do majority of American Support nuclear arms reduction

$n = 1028 \qquad p = 56\%$

$H_0 : \mu \leq 0.50$

$H_1 : \mu > 0.50$

$$z = \frac{\text{point estimate} - \text{null value}}{SE}$$

$$= \frac{0.56 - 0.50}{\sqrt{\frac{0.50(1-0.50)}{1028}}}$$

$z = 3.85$

$P = xx$ from z-tables

If $p < 0.05$ reject H_0

$\Rightarrow$ majority of Americans support nuclear arm reduction.