QUICK HELP

Confidence Interval for a Proportion

Purpose: To use a sample proportion to estimate the range in which the population proportion will fall.

Required Information:

a = level of confidence
p = sample proportion
n = sample size
z = z score based on the desired level of confidence
    The desired z score will be such that the area between –z and +z will be a
$q = 1 - p$

Calculation of Bounds:

$$p \pm z\sigma_p \qquad \sigma_p = \sqrt{\frac{pq}{n}}$$

* Add to obtain the upper bound on the confidence interval and subtract to obtain the lower bound on the confidence