

Confidence Intervals and the sample size

NAMES:

In a survey of American households, 75.1% of the households claimed to have made a financial contribution to charity in the past year.

a.) What are the population and the parameter in which we are interested?

b.) If the survey had involved 100 households, what would a 95% confidence interval for this parameter be?

c.) If the survey had involved 1000 households, what would a 95% confidence interval for this parameter be?

d.) If the survey had involved 5000 households, what would a 95% confidence interval for this parameter be?

e.) If the survey had involved 10,000 households, what would a 95% confidence interval for this parameter be?

f.) Comment on the length of the intervals as sample size increases.