

Margin of Error

Name: _____

Date: _____ Pd: _____

The following data from 25 samples of size 100 represent \hat{p} , the sample proportion of teenagers who typically go to the movies on a Friday night. If the margin of error is 0.10, graph the intervals for each of the following sample proportions plus or minus the margin of error. Each of the 25 intervals represents a 95% confidence interval. In the long run, 95% of all samples give an interval that contains the population proportion p . What would you estimate the population proportion p to be?

0.40	0.35	0.38	0.32	0.32
0.32	0.39	0.48	0.40	0.36
0.42	0.44	0.33	0.32	0.44
0.39	0.26	0.33	0.32	0.30
0.31	0.32	0.40	0.35	0.39

