

Unit 4 Discussion Example - First Response to a Classmate's Post

First response: Choose a classmate's post. Calculate the sample size needed for the given MoE and see if the poll had enough people surveyed. Use worksheet (click to download [Sample Size Proportion.xlsx](#)) to find the sample size needed.

Determining the sample size, n , needed for a given margin of error can be found by using the worksheet [SampleSizeProportion.xlsx](#) and the following variables:

Estimate of true proportion = 0.36

Sampling error (also known as MoE) = 0.04

Confidence Level = 95%

Data	
Estimate of True Proportion	0.36
Sampling Error	0.04
Confidence Level	95%
Intermediate Calculations	
Z Value	-1.9600
Calculated Sample Size	553.1701
Result	
Sample Size Needed	554

For a margin of error of 4%, the poll would need to sample at least 554 people only. Since the poll actually sampled over 1000 people, the survey results are appropriate.