1. Read the article “How 1,000 people can be more representative than 200,000” on the class website and answer the following questions:

(a) In the NBC News-Wall Street Journal poll mentioned in the article, what is the population? the parameter? the sample size?

(b) How did they get a margin of error of plus or minus 2.2 percentage points at the 95 percent confidence level? Show your calculations. (You may assume a simple random sample in your calculations. Your answer may be slightly different from theirs due to this assumption.)

(c) Explain why there is a vast gap in the percentages between MSNBC Live Votes’ estimate and the NBC-WSJ poll’s estimate.

(d) Which organization used a probability method in choosing their sample?

2. (Bonus) True or false: The statistics of the NBC-WSJ poll mentioned in the article is the percentage of all adult Americans who thought President Clinton should leave office during the Lewinsky scandal.