## Practice Problems on Sample Surveys

- 1. What is the key feature of sample surveys that allow us to infer features of a large population (of, say, 200 million adult Americans) from only a small sample (of say 1,000 people)?
- 2. What is a probability sample? What is a simple random sample (SRS)? Is a SRS a probability sample?
- 3. What is quota sampling and why might it be a problem? Is it bad to have a sample that matches the population in specific ways? If not, why is quota sampling problematic?
- 4. What is a sampling frame? How is a sampling frame different from the population the researcher ultimately wants to learn about? Suppose we wanted to do a survey of adult US citizens and have \$10,000 to implement it. How would you create your sampling frame?
- 5. What is random digit dialing? What might be problematic about it?
- 6. SRS works great in theory, but it is hard in practice. What is a multi-stage cluster sample? How does it resolve the difficulties of implementing a SRS?
- 7. What is non-response? How might it bias the results of a survey?
- 8. What about misreports? Come up with an example of a question that survey respondents are not likely to answer honestly.