Moore SCC 9e

Chapter 2 Practice Quiz

1. If a statistical study systematically favors certain outcomes, then it is called:

- b. The survey over represents some parts of the population and underrepresents others.
- c. Only those that feel strongly about the position may respond to the poll.
- d. All of the choices are correct.
- 5. A sampling method that best avoids bias is:
- a. A voluntary response sample
- b. A convenience sample
- c. A simple random sample
- d. None of the choices are correct.
- 6. One way to choose a random sample is:
- a. Put all the names in a hat and draw out a handful.
- b. Arrange all names in alphabetical order and then pick the first ten in the list.
- c. Assign each individual a number and use www.randomizer.org
- d. Both putting all names in a hat and drawing out a handful and arranging all names in alphabetical order and then picking the first ten in the list.
- e. Both putting all names in a hat and drawing out a handful and assigning each individual a number and using www.randomizer.org
- 7. You want to conduct an SRS of eight people in the class. The following people are in your class: Andrew, Bill, Chris, Dave, Ellen, Frank, Greg, Hank, Iggy, Judy, Ken, Larry, Maureen, Nancy, Otto, Pauline, Ron, Sam, Tom, Uma, Vivian, Warren, Xavier, Yan, and Zander. How would you get your sample?
- a. Choose the first eight people who walk in the door
- b. Choose the eight people that you know would answer the survey
- c. Arrange the items alphabetically and choose the first eight people in the list.
- d. Assign them numbers from 01 to 25 and use the table of random digits.

- e. All of the choices are valid for an SRS.
- 8. Suppose you wanted to use the table of random digits to choose four people from the following list of people: Andrew, Bill, Chris, Dave, Ellen, Frank, Greg, Hank, Iggy, Judy, Ken, Larry, Maureen, Nancy, Otto, Pauline, Ron, Sam, Tom, Uma, Vivian, Warren, Xavier, Yan, and Zander. Assigning the list a number in order from 01 to 25 and using Line 116 in the table would get the sample:
- a. Nancy, Dave, Warren, Xavier
- b. Nancy, Zander, Greg, Ellen
- c. Nancy, Chris, Judy, Warren
- d. Nancy, Andrew, Chris, Vivian
- 9. Suppose a packaging inspector decides to inspect a sample from a crate of eggs for freshness. Each crate has 5 trays of 30 eggs each stacked on top of each other. The inspector decides to examine only the top row. Why is this sample biased?
- a. Each egg didn't have an equal chance of being chosen in the sample.
- b. The top row may not be representative of the entire crate of eggs for freshness.
- c. The inspector was convenience sampling which is typically biased.
- d. All of the choices are correct.
- 10. How do you allow impersonal chance to choose the sample for your survey?
- a. Choose a selection of individuals that is easiest to reach.
- b. Have the subjects/individuals choose themselves based on appeal.
- c. Conduct a random sample.
- d. Choose the first few items in a list of individuals/subjects.