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**Assignment 1**

**Exercise 1.1**

**Sampling Method. *In Exercises 9–12, determine whether the sampling method appears to be sound or is flawed****.***10. Text Messaging** In a survey of 109 subjects, each was asked to indicate how many text messages they send and receive each day. The sample consisted of those who chose to respond to the request posted on the StatCrunch Web site.  **12. Evolution** In a survey of beliefs about evolution, Gallup pollsters randomly selected and telephoned 1018 adults in the United States.

**What's Wrong? *In Exercises 25–28, identify what is wrong.* 26. College Major** In a *USA Today* online poll, 728 Internet users chose to respond, and 41% of them said that their college majors prepared them for their chosen careers very well.

**Exercise 1.2**

***In Exercises 21–28, determine which of the four levels of measurement (nominal, ordinal, interval, ratio) is most appropriate.*21.** Colors of M&Ms (red, orange, yellow, brown, blue, green) listed in Data Set 20 in Appendix B **22.** Depths (km) of earthquakes listed in Data Set 16 of Appendix B

***In Exercises 29–32, identify the level of measurement of the data. Also, explain what is wrong with the given calculation.***

**32. World Series Champs** As of this writing, the New York Yankees were the last team to win the World Series, and the numbers of the starting lineup are 2, 18, 25, 13, 20, 55, 24, 33, and 53. The average (mean) of those numbers is 27.0.

**Exercise 1.3**

***In Exercises 5–8, determine whether the given description corresponds to an observational study or an experiment. In each case, give a brief explanation of your choice.***

**6. Clinical Trial** In a clinical trial of the cholesterol drug Lipitor, 188 subjects were given 20­mg doses of the drug, and 3.7% of them experienced nausea (based on data from Pfizer, Inc.).

***In Exercises 9–20, identify which of these types of sampling is used:* random, systematic, convenience, stratified, *or* cluster.**

**12. Ecology** When collecting data from different sample locations in a lake, a researcher uses the “line transect method” by stretching a rope across the lake and collecting samples at every interval of 5 meters.

**18. Exit Polls** On the day of the last presidential election, ABC News organized an exit poll in which specific polling stations were randomly selected and all voters were surveyed as they left the premises.

**Exercise 1.4**

**Exercise 1.5**

**Exercise 1.6**

**Exercise 1.7**