

## Lab Assignment 1.2

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Row: \_\_\_\_\_

### Lab Assignment 1.2

For the following exercises, identify the type of data that would be used to describe a response (quantitative discrete, quantitative continuous, or qualitative), and give an example of the data.

Example: number of tickets sold to a concert, Solution: quantitative discrete, 560 tickets

1. percent of body fat
2. favorite baseball team
3. time in line to buy groceries
4. number of students enrolled at Evergreen Valley College
5. most-watched television show
6. brand of toothpaste
7. distance to the closest movie theatre
8. age of executives in Fortune 500 companies
9. number of competing computer spreadsheet software packages
10. Determine the type of sampling used (simple random, stratified, systematic, cluster, or convenience).
  - a. A high school principal polls 50 freshmen, 50 sophomores, 50 juniors, and 50 seniors regarding policy changes for after school activities.
  - b. The instructor takes her sample by gathering data on five randomly selected students from each Lake Tahoe Community College math class.
  - c. A study was done to determine the age, number of times per week, and the duration (amount of time) of residents using a local park in San Jose. The first house in the neighborhood around the park was selected randomly and then every eighth house in the neighborhood around the park was interviewed.
11. Airline companies are interested in the consistency of the number of babies on each flight, so that they have adequate safety equipment. Suppose an airline conducts a survey. Over Thanksgiving weekend, it surveys six flights from Boston to Salt Lake City to determine the number of babies on the flights. It determines the amount of safety equipment needed by the result of that study.
  - a. Using complete sentences, list three things wrong with the way the survey was conducted.
  - b. Using complete sentences, list three ways that you would improve the survey if it were to be repeated.
12. List some practical difficulties involved in getting accurate results from a telephone survey.
13. List some practical difficulties involved in getting accurate results from a mail survey.
14. YouPolls is a website that allows anyone to create and respond to polls. One question posted April 15 asks: “Do you feel happy paying your taxes when members of the Obama administration are allowed to ignore their tax liabilities?” As of April 25, 11 people responded to this question. Each participant answered “NO!” Which of the potential problems with samples discussed in this module could explain this connection?

Lab Assignment 1.2 is shared under a [not declared](#) license and was authored, remixed, and/or curated by LibreTexts.