

Name: _____
Algebra 1

Date: _____
Band: _____

Samples and Surveys Homework

LT#5: Classify data and analyze samples and surveys.

Determine whether each data set is *qualitative* or *quantitative*.

1. price of cell phones
2. Video game sales
3. Favorite clothing brand
4. Age at graduation
5. Ounces per package
6. Birthday month

Determine whether each data set is *univariate* or *bivariate*.

7. ages and gender of your neighbors
8. Weights of your friends' pets
9. How many TV shows your friends watch
10. Distances ran
11. number of games played
12. Width and depth of lakes

In each situation, identify the population and sample. Tell whether each sample is a *random*, *systematic*, or *stratified* sample.

13. At an online store, every tenth purchaser is asked to complete an online survey.

14. You text all of the people in your cell phone's contact list and ask them what their favorite website is.

Determine whether each question is biased in #15-16. Explain your answer.

15. What is your favorite television show?

16. Would you rather go to a boring museum or an exciting amusement park?

17. You want to find out how much families in your community spend on entertainment each month. You ask every tenth person at the local movie theater. How might this cause a bias in your results?

18. You want to find out how much time students in your school spend doing math homework each week. You ask every fourth student in your math class. How might this cause a bias in your results?

19. An ice cream store owner wants to determine whether a new flavor, café mocha, would be popular with his customers. How could each factor below cause bias in the survey results?

A. The owner interviews customers outside a local coffee shop.

B. The owner interviews his adult customers.

c. The owner asks, "Which flavor would you prefer: café mocha or chocolate?"