

Chapter 1 Review

Identify the numerical value as a statistic or parameter.

1. USA Today reported that 44.9% of those surveyed (1261 adults) ate fast food weekly.
2. 15% of the students at UF are from out of state.
3. Channel 4 news asked a group of 1000 TV owners if they watched Big Brother.

Identify the population and the sample.

4. The local paper interviewed 100 city residents about the economy.

Determine the level of measurement (interval, nominal, ordinal, ratio).

5. The age of senators
6. Temperature of summer lake waters
7. A list of ski resorts
8. The years of presidential elections
9. Course evaluation on a scale from 1 to 5 with 1 being the worst
10. Cities of Broward County
11. Class ranking
12. Taxable income

Determine whether or not each is a quantitative or qualitative measure.

13. Do you eat at fast food restaurants?
14. How many miles per gallon does your car get?
15. What color are your eyes?
16. What is your house number?

Comment on the usefulness of the survey, potential pitfalls, and identify the sampling error that did/could occur.

17. In an ABC poll, 186,000 viewers each paid \$0.50 to call a "900" number with their opinion about keeping the UN in the US. The results showed that 67% of that 67% of those who called were in favor of moving the UN out of the US.
18. Merrill Lynch conducted a survey designed to gauge clients' satisfaction and to rate their personal financial consultant. The company mailed out letters with a cover letter stating "Your responses are extremely valuable to your financial consultant, Mr. Makeumoney, and to Merrill Lynch... We will share your name and response with your consultant...."

A survey about the FCAT is going to be conducted to garner students' opinions. Identify the following as systematic sampling, convenience sampling, stratified sampling, random sampling, or cluster sampling.

19. Survey 250 students from each grade level
20. Survey all students in only 18 selected schools from the county
21. Survey those students with a student number that is divisible by 5
22. Survey students at the mall on Saturday

Answers: 1. Statistic 2. Parameter 3. Statistic 4. Sample=100 people interviewed Pop=city residents

5. ratio 6. Interval 7. Nominal 8. Interval 9. Ordinal 10. Nominal 11. Ordinal

12. ratio 13. Qualitative 14. Quantitative 15. Qualitative 16. Qualitative 17. Voluntary response/also those who don't watch definitely won't give be in the survey 18. Respondents might not be willing to give unfavorable comments (their true feelings) about someone working with their \$ 19. Stratified

20. Cluster 21. Systematic 22. Convenience