



**Determine which of the four levels of measurement (nominal, ordinal, interval, ratio) is most appropriate.**

- 9) Student's grades, A, B, or C, on a test. 9) \_\_\_\_\_  
A) Interval                      B) Ordinal                      C) Ratio                      D) Nominal

**Indicate the sampling technique used.**

- 10) An education researcher randomly selects 38 schools from one school district and interviews all the teachers at each of the 38 schools. Identify the type of sampling used in this example. 10) \_\_\_\_\_  
A) Simple random sampling                      B) Stratified sampling  
C) Cluster sampling                      D) Systematic random sampling

**Determine which of the four levels of measurement (nominal, ordinal, interval, ratio) is most appropriate.**

- 11) The subjects in which college students major. 11) \_\_\_\_\_  
A) Ratio                      B) Ordinal                      C) Nominal                      D) Interval

**Indicate the sampling technique used.**

- 12) A pollster uses a computer to generate 500 random numbers and then interviews the voters corresponding to those numbers. Identify the type of sampling used in this example. 12) \_\_\_\_\_  
A) Simple random sampling                      B) Systematic random sampling  
C) Stratified sampling                      D) Cluster sampling

**Determine which of the four levels of measurement (nominal, ordinal, interval, ratio) is most appropriate.**

- 13) Temperatures of the ocean at various depths. 13) \_\_\_\_\_  
A) Ordinal                      B) Nominal                      C) Interval                      D) Ratio

**Identify the study as an observational study or a designed experiment.**

- 14) A researcher wished to assess the importance of exercise in weight-loss programs. 412 people, all considered to be at least 20 pounds overweight, volunteered to participate in a study. The participants were randomly assigned to one of two groups. Over a two-month period, the first group followed a particular diet but were instructed to perform no exercise other than walking. The second group followed the same diet but also performed aerobic exercise for one hour each day. At the end of the two months, the weight loss of each participant was recorded. The average weight loss was calculated for each group and it was found that the average weight loss for the second group was significantly greater than the average weight loss for the first group. 14) \_\_\_\_\_  
A) Designed experiment                      B) Observational study

**Determine whether the given value is a statistic or a parameter.**

- 15) After inspecting all of 55,000 kg of meat stored at the Wurst Sausage Company, it was found that 45,000 kg of the meat was spoiled. 15) \_\_\_\_\_  
A) Statistic                      B) Parameter



**Determine whether the evaluated group is a population or a sample.**

21) A researcher examines the records of all the registered voters in one city and finds that 43% are registered Democrats. 21) \_\_\_\_\_

A) Population

B) Sample

22) The average age of 45 employees of a large company is found to be 32 years. 22) \_\_\_\_\_

A) Sample

B) Population

## Answer Key

Testname: CHAP1-REV-F08

- 1) A
- 2) A
- 3) A
- 4) C
- 5) A
- 6) TRUE
- 7) A
- 8) B
- 9) B
- 10) C
- 11) C
- 12) A
- 13) C
- 14) A
- 15) B
- 16) A
- 17) B
- 18) answers vary.
- 19) A
- 20) A
- 21) A
- 22) A