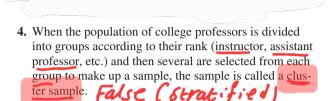
Chapter Quiz

Determine whether each statement is true or false. If the statement is false, explain why.



- 5. The variable temperature is an example of a quantitative variable.
- **6.** The height of basketball players is considered a continuous variable.
- 7. The boundary of a value such as 6 inches would be 5.9–6.1 inches.

Select the best answer.

- **8.** The number of ads on a one-hour television show is what type of data?
 - a. Nominal
 - b. Qualitative
 - (c) Discrete
 - d. Continuous



- **9.** What are the boundaries of 25.6 ounces?
 - a. 25-26 ounces
 - (b) 25.55–25.65 ounces
 - c. 25.5–25.7 ounces
 - d. 20-39 ounces
- 10. A researcher divided subjects into two groups according to gender and then selected members from each group for her sample. What sampling method was the researcher using?
 - a. Cluster
 - b. Random
 - c. Systematic
 - (d.) Stratified
- **11.** Data that can be classified according to color are measured on what scale?
 - (a.) Nominal
 - b. Ratio
 - c. Ordinal
 - d. Interval

- 12. A study that involves no researcher intervention is called
 - a. An experimental study.
 - b. A noninvolvement study.
 - (c) An observational study.
 - d. A quasi-experimental study.
- العواعل الأخرى بيتراهل المعالي 13. A variable that <u>interfer</u>es with <u>ot</u>her variables in the study is called
 - (a) A confounding variable.
 - b. An explanatory variable.
 - c. An outcome variable.
 - d. An interfering variable.

Use the best answer to complete these statements.

- 14. Two major branches of statistics are _____ and Inferent; at
- 16. The group of <u>all subjects</u> under study is called a(n)
- 17. A group of subjects selected from the group of all subjects under study is called a(n) Sample.
- 18. Three reasons why samples are used in statistics:
 - a. Save money b. Save time c. used when population is infinite
- 19. The four basic sampling methods are
 - a. Simple candom b. Systematic c. stratified d. <u>cluster</u>

- **22.** For each statement, decide whether descriptive or inferential statistics is used.
 - a. The average life expectancy in New Zealand is 78.49 years (Source: World Factbook). Descriptive
 - b. A diet high in fruits and vegetables will lower blood pressure (Source: Institute of Medicine). In ferential
 - c. The total amount of estimated losses for Hurricane Katrina was \$125 billion (Source: The World Almanac and Book of Facts).
 - d. Researchers stated that the shape of a person's ears is relative to the person's aggression Inferential (Source: American Journal of Human Biology).

- e. In 2050, it is estimated that there will be 18 million Americans who are age 85 and over (Source: U.S. Census Bureau). Inferential
- **23.** Classify each as <u>nominal-level</u>, <u>ordinal-level</u>, <u>interval-level</u>, or <u>ratio-level</u> of measurement.
 - a. Rating of movies as G, PG, and R Nominal
 - b. Number of candy bars sold on a fund drive Patro
 - c. Classification of automobiles as subcompact, compact, standard, and Tuxury ordinal
 - d. Temperatures of hair dryers Internal
 - e. Weights of suitcases on a commercial airliner Pario
- 24. Classify each variable as discrete or continuous.
 - a. Ages of people working in a large factory continuous
 - b. Number of cups of coffee served at a restaurant Discrete

- c. The amount of drug injected into a guinea pig Continues
- d. The time it takes a student to drive to school Continous
- e. The number of gallons of milk sold each day at a grocery store Discrete
- 25. Give the boundaries of each.
 - a. 32 minutes
 - b. 0.48 millimeter
 - *c*. 6.2 inches
 - d. 19 pounds
 - e. 12.1 quarts
- a) 32 = 31.5 32.5
- b) 0.48 = 0.480 0.475 0.48
- c) 6.2 = 6.20
- d) 19 = 18.5 19.5
- e) 12.1 = 12.10