

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Provide an appropriate response.

- 1) Quantitative variables classify individuals in a sample according to _____
A) personality characteristic. B) physical attribute.
C) exhibited trait. D) numerical measure.

Solve the problem.

- 2) Classify the colors of automobiles on a used car lot as qualitative data or quantitative data. _____
A) Categorical data B) quantitative data
- 3) Classify the number of seats in a movie theater as qualitative data or quantitative data. _____
A) Categorical data B) quantitative data
- 4) the temperatures of cups of coffee served at a restaurant _____
A) Categorical data B) quantitative
- 5) the native languages of students in an English class _____
A) quantitative B) Categorical data

Select the most appropriate answer.

- 6) A summary measure that is computed from a sample to describe a characteristic of interest is called _____
A) a variable
B) a statistic
C) a poll
D) a data file
E) a parameter
- 7) A numerical summary of the population is called _____
A) a census
B) a data file
C) a statistic
D) a variable
E) a parameter

Determine whether the summary measure is better described as a parameter or a statistic.

- 8) The average gpa of Harvard's 2007 graduating class. _____
A) Parameter B) Statistic

Provide an appropriate response.

- 9) A survey of 1103 students was taken from a college with 14,500 students. Is this value a parameter or a statistic? _____
A) parameter B) statistic

Determine whether the summary measure is better described as a parameter or a statistic.

- 10) 89% of all UK students take out some kind of loan to attend college 10) _____
A) Parameter B) Statistic
- 11) The average late fee for 561 credit card holders was found to be \$56.75. 11) _____
A) Parameter B) Statistic

Select the most appropriate answer.

- 12) A survey of 299 American households found that 15% of the households own a dog identify the population 12) _____
A) All American Households
B) 299 American Households Surveyed
C) 15% of the households
D) the proportion of the households own a dog
- 13) A survey of 299 American households found that 15% of the households own a dog identify the Sample 13) _____
A) All American Households
B) 15% of the households
C) the proportion of the households own a dog
D) 299 American Households Surveyed
- 14) A survey of 299 American households found that 15% of the households own a dog. The 15% of the households own a dog is an example of 14) _____
A) a statistic B) a parameter
- 15) A high school guidance counselor analyzed data from a sample of 600 community colleges taken throughout the United States. One of his goals was to estimate the annual tuition costs of community colleges in the United States. Identify the population of interest to the guidance counselor. 15) _____
A) the sample of 600 community colleges
B) all community colleges in the United States
C) all high school guidance counselors
D) the average annual tuition cost of community colleges in the United States
E) all students attending community colleges in the United States
- 16) Kennedy's Book store conducts a survey to determine what percent of all UK students plan on selling back their text books after the Fall 2014 semester. 210 students responded to the survey, identify the population 16) _____
A) The percent of all UK students plan on selling back their text books
B) 210 students that responded to the survey
C) All UK students
D) all UK students plan on selling back their text books
- 17) Kennedy's Book store conducts a survey to determine what percent of all UK students plan on selling back their text books after the Fall 2014 semester. 210 students responded to the survey, identify the Sample 17) _____
A) 210 students that responded to the survey
B) All UK students
C) The percent of all UK students plan on selling back their text books
D) The percent of the 210 surveyed students that will sell back their books

- 18) Kennedy's Book store conducts a survey to determine what percent of all UK students plan on selling back their text books after the Fall 2014 semester. 210 students responded to the survey, identify the population parameters 18) _____
- A) The percent of the 210 surveyed students that will sell back their books
 - B) All UK students
 - C) 210 students that responded to the survey
 - D) The percent of all UK students plan on selling back their text books

- 19) Kennedy's Book store conducts a survey to determine what percent of all UK students plan on selling back their text books after the Fall 2014 semester. 210 students responded to the survey, identify the Sample statistic 19) _____
- A) All UK students
 - B) The percent of all UK students plan on selling back their text books
 - C) 210 students that responded to the survey
 - D) The percent of the 210 surveyed students that will sell back their booksy

Answer true or false.

- 20) Random sampling enables the sample to be a good reflection of the population. 20) _____
- A) True
 - B) False

- 21) Based on 12,000 responses from 55,000 questionnaires sent to its alumni, a major university estimated that the annual salary of its alumini was \$98,500 per year. This sample was collected using random sampling. 21) _____
- A) False
 - B) True

- 22) A large company would like to know what percentage of it's employees would utilize an on-site daycare facility. Rather than asking it's 5000 employees, each employee is assigned a number from 1 to 5000 and then a computer program is used to randomly select 100 numbers between 1 and 5000. These employees are then contacted and asked whether they would use an on-site daycare facility. The method used to collect the sample of 100 responses produces a random sample. 22) _____
- A) False
 - B) True

- 23) To estimate the percentage of defective items a machine is producing, a quality control analyst inspects the first 100 items produced in a day. This technique produces a random sample. 23) _____
- A) False
 - B) True