

- 1) Statistics is the science of conducting studies to \_\_\_\_\_  
A) hypothesize, experiment, and form conclusions.  
B) monitor, study, and report on a subject.  
C) solve a system of equations.  
D) collect, organize, summarize, analyze, and draw conclusions from data.
- 2) A \_\_\_\_\_ consists of all subjects that are being studied. \_\_\_\_\_  
A) variable                      B) population                      C) sample                      D) group
- 3) Which of the following correctly describes the relationship between a sample and a population? \_\_\_\_\_  
A) A population and a sample are not related.  
B) A sample is a group of populations that are subject to observation.  
C) A sample is a group of subjects selected from a population to be studied.  
D) A population is a group of samples that may or may not be included in a study.
- 4) Inferential statistics is based on probability. \_\_\_\_\_  
A) False    B) True
- 5) A \_\_\_\_\_ variable assumes values that can be counted. \_\_\_\_\_  
A) continuous                      B) discrete                      C) enumerable                      D) quantitative
- 6) A person's hair color would be an example of a quantitative variable. \_\_\_\_\_  
A) False    B) True
- 7) The amount of time needed to run the Boston marathon is an example of which type of variable? \_\_\_\_\_  
A) continuous                      B) temporal                      C) qualitative                      D) discrete
- 8) Which one of the following data are discrete? \_\_\_\_\_  
A) the latitude and longitude of the boat's port of departure  
B) the speed of the boat's propeller, in revolutions per minute  
C) the number of crew members on the boat  
D) the latitude and longitude of a boat at sea
- 9) What level of measurement allows for the ranking of data, a precise difference between units of measure, and also includes a true zero? \_\_\_\_\_  
A) ratio    B) ordinal    C) interval    D) nominal

- 10) Classifying the fruit in a basket as apple, orange, or banana, is an example of the \_\_\_\_\_ level of measurement? 10) \_\_\_\_\_  
A) ordinal                      B) nominal                      C) ratio                      D) interval
- 11) Questioning every 14th customer leaving a theatre about the movie they had seen, would be an example of systematic sampling. 11) \_\_\_\_\_  
A) True                                      B) False
- 12) A pollster randomly samples 164 Democrats, 141 Republicans and 17 Independents (all registered voters) in Metro City and asks each poll participant which mayorial candidate he or she prefers. Identify the kind of sample that the pollster is using. 12) \_\_\_\_\_  
A) cluster sample                      B) stratified sample  
C) voluntary response sample                      D) sample of convenience
- 13) \_\_\_\_\_ sampling is used when the population is large and it includes subjects residing over a large geographic area. 13) \_\_\_\_\_  
A) Random                      B) Cluster                      C) Stratified                      D) Convenient
- 14) Which of the following sample types should you always regard as unreliable? 14) \_\_\_\_\_  
A) stratified samples                      B) voluntary response samples  
C) simple random samples                      D) cluster samples

Answer Key

Testname: PRACTICE\_01

- 1) D
- 2) B
- 3) C
- 4) B
- 5) B
- 6) A
- 7) A
- 8) C
- 9) A
- 10) B
- 11) A
- 12) B
- 13) B
- 14) B