

1. A statistic is a measurement of some characteristic of a sample and a _____ is a measurement of some characteristic of a population.
2. Identify each of the following as discrete or continuous data:
 - A. Weights of grizzly bears: _____
 - B. Number of grizzly bears in the fifty states: _____
 - C. Radar indicating that Mr. Nolan Ryan pitched the last ball at 97.3 miles/hour:

 - D. Among 150,000 consumers surveyed, 147,387 recognized the Coca Cola brand name:

 - E. A U.S.A.F. air-lifter altimeter reports a height of 32,000 feet: _____
3. Determine which of the four levels of measurement for variables is most appropriate for the following:
 - A. Salaries of college professors: _____
 - B. Nationalities of survey respondents: _____
 - C. Three different cubes are measured with a ruler, and their volumes are computed to be 40, 64, and 65 cubic inches respectively: _____
 - D. The winner of the Miss America contest was Miss California; first runner-up was Miss Ohio and second runner-up was Miss Pennsylvania: _____
 - E. Republican, Democrat, Independent, and Other candidates identified on a ballot:

4. Identify which type of sampling is used: A correspondent for the Air Force Times magazine interviews every 50th commanding officer identified in the magazine listing of the 1000 Air Force commands with the highest moral, welfare and recreational scores.
- random
 - stratified
 - systematic
 - cluster
5. If Data Set A has a range that is greater than the range of Data Set B, then Data Set A must have a standard deviation that is greater than the standard deviation of Data Set B.
- True
 - False
 - Not enough information is provided in the problem to answer.
 - Neither true nor false.
6. A sample of Mars Brand \$100,000 candy bars has weights that vary between 0.838 grams and 1.033 grams. You wish to construct a frequency table with 12 classes. Use the information to find the upper and lower limits of the first class.
7. To obtain the best graphical representation of the number of students in each of six departments, use a
- Histogram.
 - Scatter Diagram.
8. A K-6 elementary school has 50 students at each grade level. What shape is the frequency distribution of grade levels?
- Normal
 - Rectangular
 - Positively skewed
 - Negatively skewed