- 1. In the four steps of statistical inference, the claim is BEST described as:
 - the experimental outcome.
 - our natural reaction to an experimental outcome.
 - the likelihood of occurrence of the observed experimental outcome.
 - the status quo—what we assume to be true.
- 2. Multiple choices.

Fill in the blank with the appropriate term. (descriptive/inferential)

This study is a/an *inferential* statistics problem.

3. Multiple choices

Identify the population of the problem.

Identify the sample of the problem.

Fill in the blank with the appropriate term. (probability/statistics)

This is a _____ question.

- 4. What are the first two steps that are used in solving problems in this class?
 - **()a.** There are steps to solving problems?
 - **()b.** Find the keywords then translate the words into statistics.
 - **O**c. Determine the equations to use and solve the problem.
 - **O**d. Determine what you are talking about and determine the equations.
- 5. Fill in the blank with the appropriate term. (categorical/discrete/continuous)

multiple choices. The variable is a _____ variable.

6. A histogram can be used to describe the shape, center, and variability of a distribution.

- O True
- C False
- 7. Fill in the blanks:
 - a. A <u>Answer 1</u> univariate data set consists of observations that are numbers.
 - b. A <u>Answer 2</u> univariate data set consists of nonnumerical observations.

c. If the set of all possible values for a numerical data set is finite, then the data set is <u>Answer 3</u>.

d. If the set of all possible values for a numerical data set is some interval of numbers, then the data set is <u>Answer 4</u>.

8. The quality of an automobile battery is often measured by the Cold Cranking Amps (CCA), a measure of the current supplied at 0°F. Thirty automobile batteries were randomly selected and subjected to subfreezing temperatures. The histogram displayed shows the resulting CCA data.



Multimodal

The quality of an automobile battery is often measured by the Cold Cranking Amps (CCA), a measure of the current supplied at 0°F. Thirty automobile batteries were randomly selected and subjected to subfreezing temperatures. The histogram displayed shows the resulting CCA data.



- Symmetric
- O Positively Skewed

The quality of an automobile battery is often measured by the Cold Cranking Amps (CCA), a measure of the current supplied at 0°F. Thirty automobile batteries were randomly selected and subjected to subfreezing temperatures. The histogram displayed shows the resulting CCA data.



The distribution has an outlier.

- O True
- C False