Sample Quiz 1
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) A study is under way in Yosemite National Forest to determine the adult height of American pine trees. Specifically, the study is attempting to determine what factors aid a tree in reaching heights greater than 60 feet tall. It is estimated that the forest contains 25,000 adult American pines. The study involves collecting heights from 250 randomly selected adult American pine trees and analyzing the results. Identify the sample in the study.
   A) the 250 randomly selected adult American pine trees
   B) all American pine trees, of any age, in the forest
   C) all the adult American pine trees taller than 60 feet
   D) the 25,000 adult American pine trees in the forest

The manager of the customer service division of a major consumer electronics company is interested in determining whether the customers who have purchased a videocassette recorder made by the company over the past 12 months are satisfied with their products.

2) the population of interest is
   A) all the customers who have ever bought a videocassette recorder made by the company.
   B) all the customers who have bought a videocassette recorder made by the company over the past 12 months.
   C) all the customers who have bought a videocassette recorder made by the company and brought it in for repair over the past 12 months.
   D) all the customers who have used a videocassette recorder over the past 12 months.

3) An insurance company evaluates many numerical variables about a person before deciding on an appropriate rate for automobile insurance. The number of claims a person has made in the last 3 years is an example of a __________ variable.
   A) discrete              B) continuous          C) categorical          D) parameter

4) A professor of economics at a small Texas university wanted to determine what year in school students were taking his tough economics course. Shown below is a pie chart of the results. What percentage of the class took the course prior to reaching their senior year?

   A) 54%              B) 14%               C) 86%              D) 44%
5) Which of the following is a continuous quantitative variable?
   A) the color of a student's eyes
   B) the number of gallons of milk sold at the local grocery store yesterday
   C) the number of employees of an insurance company
   D) the amount of milk produced by a cow in one 24-hour period

6) When studying the simultaneous responses to two categorical questions, we should set up a
   A) cumulative percentage distribution table.  B) histogram.
   C) contingency table.  D) frequency distribution table.

**TABLE 2-4**
A survey was conducted to determine how people rated the quality of programming available on television. Respondents were asked to rate the overall quality from 0 (no quality at all) to 100 (extremely good quality). The stem-and-leaf display of the data is shown below.

<table>
<thead>
<tr>
<th>Stem</th>
<th>Leaves</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>24</td>
</tr>
<tr>
<td>4</td>
<td>03478999</td>
</tr>
<tr>
<td>5</td>
<td>0112345</td>
</tr>
<tr>
<td>6</td>
<td>12566</td>
</tr>
<tr>
<td>7</td>
<td>01</td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2</td>
</tr>
</tbody>
</table>

7) Referring to Table 2-4, what percentage of the respondents rated overall television quality with a rating of 50 or below?
   A) 0.11  B) 0.44  C) 0.40  D) 0.56

**TABLE 2-10**
The histogram below represents scores achieved by 200 job applicants on a personality profile.

8) Referring to the histogram from Table 2-10, ________ percent of the job applicants scored below 50.
   A) 80%  B) 60%  C) 20%  D) 50%  E) 30%

9) Referring to the histogram from Table 2-10, 90% of the job applicants scored above ________.
   A) 10  B) 90  C) 50  D) 30
Answer Key
Testname: SAMPLE_QUIZ1.TST

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

1) A
2) B
3) A
4) C
5) D
6) C
7) B
8) A
9) A