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

1) A researcher at Texas Tech University wishes to estimate the textbook costs of first-year students at Tech. To do so, she monitored the textbook cost of 250 first-year students and found that their average textbook cost was $300 per semester. Identify the sample in the study.
   A) all Texas Tech University students     B) all college students
   C) the 250 Tech students that were monitored D) all first-year Texas Tech University students

2) Indicate the measurement scale of the following variable: Method of payment (cash, check, credit card).
   A) interval     B) ratio     C) ordinal     D) nominal

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

Question 4–5: The histogram below represents scores achieved by 200 job applicants on a personality profile.

4) Referring to the histogram, _________ percent of the job applicants scored between 20 and 60.
   A) 40%     B) 60%     C) 20%     D) 50%

5) Referring to the histogram, 80% of the job applicants scored below_______.
   A) 20     B) 30     C) 40     D) 50

6) Ogive is a graphical method used to study the ___________ data.
   A) Quantitative     B) Categorical

7) Indicate the measurement scale of the following variable: Earning per share.
   A) ordinal     B) nominal     C) ratio     D) interval
8) 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?

![Pie Chart](image)

A) 86%  
B) 56%  
C) 14%  
D) 44%

**Question 9:** 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>
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<tbody>
<tr>
<td>3</td>
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<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2</td>
</tr>
</tbody>
</table>

9) Referring to the stem-and-leaf display, what percentage of the respondents rated overall television quality with a rating of 40 or above?

A) 18  
B) 90  
C) 15  
D) 65
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

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