1. (5 points) Find the quartiles for the following data set of tuition costs (in thousands of dollars) for 25 universities:

17 18 19 20 20 23 24 26 29 29 30 30 34
35 36 36 38 39 39 43 44 44 44 45 45

Q1 = 34
Q2 = 23.5
Q3 = 41

2. (5 points) Sketch a Box-and-Whisker plot using the same data.

Turn Over the Quiz
There is a Second Page!
3. (5 points)
What is the probability of rolling 9 or more with a pair of dice?
(Hint: Draw a tree diagram of all the possible outcomes.)

\[
P(\text{9 or more}) = \frac{10}{36}
\]

4. (5 points) Given the following table of results of a telephone survey of social networking users, find the empirical probability that a user is between the ages of 36 and 49.

<table>
<thead>
<tr>
<th>Age</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 to 22</td>
<td>150</td>
</tr>
<tr>
<td>23 to 35</td>
<td>300</td>
</tr>
<tr>
<td>36 to 49</td>
<td>250</td>
</tr>
<tr>
<td>50 to 65</td>
<td>200</td>
</tr>
<tr>
<td>65 and over</td>
<td>50</td>
</tr>
</tbody>
</table>

Total number of people surveyed: 950.
Total number between 36 and 49: 250.

\[
P(\text{36 to 49}) = \frac{250}{950}.
\]