Part 1: Homework. *Round answers to nearest tenth percent. Use other side of sheet to show solutions.*

Chapter 3: #16 (5 points)
a. The bars should show no depth. There should be spaces between the bars. The labels should face the same way.

b. We wouldn’t expect all the percents to add to 100%: Each trainer was asked to list 3 modalities so there would be probably be an overlap, with a modality being chosen by more than more trainer. Ice might have been used 40% by the trainers, Whirlpool by 50% and Electric by 45%. These numbers would add to more than 100%.

Chapter 3: #19 (4 points)
a. 292/1755 = 16.6%
  b. 110/931 = 11.8%
  c. 110/292 = 37.7%
  d. 931/1755 = 53%

ActivStats: Weather Forecasts (6 points)
a. 34/365 = 9.3%
  b. 90/365 = 24.7%
  c. 295/365 = 80.8%

Part 2:

A study by the University of Texas Southwestern Medical Center examined 626 people to see if there was an increased risk of contracting hepatitis C associated with having a tattoo. If subject had a tattoo, researchers asked whether it had been done in a commercial tattoo parlor or elsewhere.

Rows are Hepatitis C status
Columns indicate where tattoo had been done

<table>
<thead>
<tr>
<th></th>
<th>Commercial Parlor</th>
<th>No Tattoo</th>
<th>Non-commercial Parlor</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>35</td>
<td>495</td>
<td>53</td>
</tr>
<tr>
<td>Yes</td>
<td>17</td>
<td>18</td>
<td>8</td>
</tr>
</tbody>
</table>

*Round answers to the nearest tenth of a percent.*

a. (4 points) What percent of the study had contracted Hepatitis C? 43/626 = 6.9%
b. (4 points) What percent of people who had Hepatitis, never had a tattoo? \( \frac{18}{43} \approx 41.9\% \)

c. (4 points) What percent of people had their tattoos done in a commercial parlor?

\[ \frac{52}{626} = 8.3\% \]

d. (2 points) Can the data here be described as quantitative or categorical? Explain your answer.

The data here is categorical: It describes whether someone has Hep C or not and it tells where a subject received a tattoo.