Practice Quiz 2.2

Name______________________________

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Provide an appropriate response.

1) The numbers of home runs that Sammy Sosa hit in the first 15 years of his major league baseball career are listed below. Make a stem-and-leaf plot for this data. What can you conclude about the data?

   4 15 10 8 33 25 36 40 36 66 63 50 64 49 40

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

2) For the dot plot below, what is the maximum and what is the minimum entry?

   A) max: 54; min: 15
   B) max: 54; min: 12
   C) max: 17; min: 12
   D) max: 14; min: 12

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

3) The heights (in inches) of 30 adult males are listed below. Construct a stem-and-leaf chart for the data. What can you conclude about the data?

   70 72 71 70 69 73 69 68 70 71 67 71 70 74 69 71 71 71 72 69 71 68 67 73 74 70 71 69 68

4) The Highway Patrol, using radar, checked the speeds (in mph) of 30 passing motorists at a checkpoint. The results are listed below. Construct a dot plot for the data.

   44 38 41 50 36 36 43 42 49 48 35 40 37 41 43 50 45 45 39 38 50 41 47 36 35 40 42 43 48 33
5) A study was conducted to determine how people get jobs. Four hundred subjects were randomly selected and the results are listed below.

<table>
<thead>
<tr>
<th>Job Sources of Survey Respondents</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newspaper want ads</td>
<td>69</td>
</tr>
<tr>
<td>Online services</td>
<td>124</td>
</tr>
<tr>
<td>Executive search firms</td>
<td>72</td>
</tr>
<tr>
<td>Mailings</td>
<td>32</td>
</tr>
<tr>
<td>Networking</td>
<td>103</td>
</tr>
</tbody>
</table>

Construct a pie chart of the data.

6) The heights (in inches) of 30 adult males are listed below. Construct a Pareto chart for the data.

70 72 71 70 69 73 69 68 70 71
67 71 70 74 69 68 71 71 71 72
69 71 68 67 73 74 70 71 69 68

7) The numbers of home runs that Barry Bonds hit in the first 10 years of his major league baseball career are listed below. Use a scatter plot to display the data. Is there a relationship between the home runs and the batting averages?

| Home Runs | 16 | 25 | 24 | 19 | 33 | 25 | 34 | 46 | 37 | 33 |
| Batting Average | .223 | .261 | .283 | .248 | .301 | .292 | .311 | .336 | .312 | .294 |

8) The data below represent the smoking prevalence among U.S. adults over a 35-year period. Use a time series chart to display the data. Describe any trends shown.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent of Smokers</td>
<td>42</td>
<td>30</td>
<td>25</td>
<td>25</td>
<td>23</td>
</tr>
</tbody>
</table>
Answer Key
Testname: QUIZ 2.2 PRACTICE

1) Key: 0 | 4 = 4

Most of these years he hit 36 or more home runs.

2) C

3) Key: 6 | 7 = 67

Most of these males had heights of 70 or more inches.

4)

5)
In general, there appears to be a relationship between the home runs and batting averages. As the number of home runs increased, the batting averages increased.
It appears the percent of U.S. adults who smoke is declining.