## Box, Stem-Leaf, and Histogram Worksheet

## Graph It! Graph It Good.

1. The following box-and-whisker plot represents the scores earned on a statistic test. Find the median score.

2. Which of the following options is closest to the median found in Problem 1.
(i) Lowest score (ii) First quartile (iii) Third quartile
3. Use the data below to complete the frequency table.
$15,16,5,7,20,19,8,13,6,17,6,9$, $19,6,14,8,20,5,18,8,13,7,18$.

| Interval | Frequency |
| :--- | :--- |
| $5-8$ |  |
| $9-12$ |  |
| $13-16$ |  |
| $17-20$ |  |

5. Find the mode of the set of data given in Problem 4.
6. Can you find the average score from the above box-and-whisker plot.
7. Use the frequency table to draw a histogram of the data given in Problem 4.
(i) Yes (ii) No (iii) Maybe
8. The following table of values gives the miles Anne cycled per day in a given week.

| Day | Miles |
| :--- | :--- |
| S | 12 |
| M | 11 |
| T | 21 |
| W | 24 |
| Th | 33 |
| F | 13 |
| S | 33 |

Find the median, mode and range for the above list of values.
8. Use the table in Problem 7 to construct a stem-and-leaf plot.
9. Use the following data to make a box-and-whisker plot for shares of Yehaw! traded in the years 1996 to 2000.

| Years | Shares <br> (Millions) |
| :--- | :--- |
| 1996 | 100 |
| 1997 | 140 |
| 1998 | 222 |
| 1999 | 196 |
| 2000 | 250 |

10. Draw a histogram with the following data: $19,18,17,14,22,23,14,22,23$, 19, 17, 19
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