**Part II: Chapter 2: Summarizing and Graphing Data**

**Task 1: Prepare a frequency distribution for the written exam data for the 118 firefighters. Use a starting point of 40 and determine what class width will give you 6 classes. This class width is\_\_\_\_. Now fill out the frequency table below:**

|  |  |
| --- | --- |
| **Class** | **Frequency** |
| **40 -** |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Convert this table into a relative frequency table:**

|  |  |
| --- | --- |
| **Class** | **Relative Frequency** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Task 2: Use Statdisk to construct a histogram of the written exam score data. Be sure to use a starting point of 40 and the same class width as you used in the frequency tables. Be sure to print out the histogram and correct the labels as needed to properly reflect the data.**

* **Describe the shape of this distribution using proper statistical terminology.**
* **Which classes are the largest?**
* **Estimate the average score of the participants based on the histogram.**

**Task 3: Use Statdisk to sort the written exam data for individual race categories. Now make a stem and leaf plot for each of the three race categories below:**

* **How many test scores from each racial category are between 40 and 59?**
* **Which race had the highest test scores? Lowest test scores?**