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

**Task 1: Prepare a frequency distribution for the Age data of the 654 youths. Use a starting point of 3 years and determine what class width will give you 6-10 classes. This class width is \_\_\_\_\_. Now fill out the frequency table below:**

|  |  |
| --- | --- |
| **Class** | **Frequency** |
| **3 -** |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

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

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

**Task 2: Use Statdisk to construct a histogram of the age data. Be sure to use a starting point of 3 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 age of the participants based to the histogram.**

**Task 3: Construct a scatterplot of Age versus FEV for the data set. Print out his scatterplot. Be sure to correct the labels to properly reflect the data. Does there appear to be a linear relationship between these variables?**