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

**Task 1: Prepare a frequency distribution for life expectancy for the countries in the dataset. Use a starting point of 55 and determine what class width will give you 6 classes. This class width is\_\_\_\_. Now fill out the frequency table below:**

|  |  |
| --- | --- |
| **Class** | **Frequency** |
| **55 -** |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

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

|  |  |
| --- | --- |
| **Class** | **Relative Frequency** |
| **55 -** |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Task 2: Use Statdisk to construct a histogram of the life expectancy data. Be sure to use a starting point of 55 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.**
* **Based on the histogram, estimate (without calculating) the average global life expectancy.**

**Task 3: Use Statdisk to create a scatterplot with life expectancy as the x variable and Hospital beds per 100,000 as the y variable. Use Paint to properly label the horizontal and vertical axes, then insert below.**

* **Does there appear to be a linear relationship between these variables?**
* **Describe the relationship between these variables.**