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

**Task 1: Prepare a frequency distribution for the age data for the 3340 incidents where the age of the deceased was recorded. To do this, you will need to sort your data by age (column 1). Use a starting point of 0 and determine what class width will give you 11 classes. This class width is\_\_\_\_. Now fill out the frequency table below:**

|  |  |
| --- | --- |
| **Class** | **Frequency** |
| **0-** |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

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

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

**Task 2: Use Statdisk to construct a histogram of the age data. Be sure to use a starting point of 0 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 deceased based on the histogram.**

**Task 3: Use Statdisk create a count for the number of deaths in each year. You will need to sort the data by year. Fill in the table below:**

|  |  |
| --- | --- |
| **Year** | **Number of police involved deaths** |
| **2000** |  |
| **2001** |  |
| **2002** |  |
| **2003** |  |
| **2004** |  |
| **2005** |  |
| **2006** |  |
| **2007** |  |
| **2008** |  |
| **2009** |  |
| **2010** |  |
| **2011** |  |
| **2012** |  |
| **2013** |  |
| **2014** |  |

**Task 4: Use Statdisk to create a scatterplot of the table above. Remove the regression line (by deselecting the box) and insert the graph below after you have properly labeled it.**

* **What does this graph seem to indicate?**
* **How could you explain what you see in this graph? Please indicate several possible factors.**