Week 2 Assignment 2: Working with Minitab Software – Descriptive Statistics

Companion to Assignment 2/Step by Step Instructions Using Minitab Software

Summary of Instructions: For this assignment you will use the data set provided on the assignment page. You will copy this data set into a spreadsheet in Minitab.

Step 1. Retrieve the Data from the Data Set Spreadsheet

Click the magnifying glass in the image of the assignment page for the Data Set. Select the first row in the spreadsheet. These are the column headings. Press and hold the ctrl key on your keyboard and press the letter C. This action copies the selected content to the clipboard of your computer.

Assignment Resources
DATA SET

1. STEP BY STEP INSTRUCTIONS

Click to open the instructions on how to use the data set in Minitab for assignment.

2. DATA UNIFORM CRIMES REPORT

Use this data set to complete this assignment.

Retrieve the Data Set for this assignment.

MCJ5100 W2A2 Data set_031115 [Read-Only]

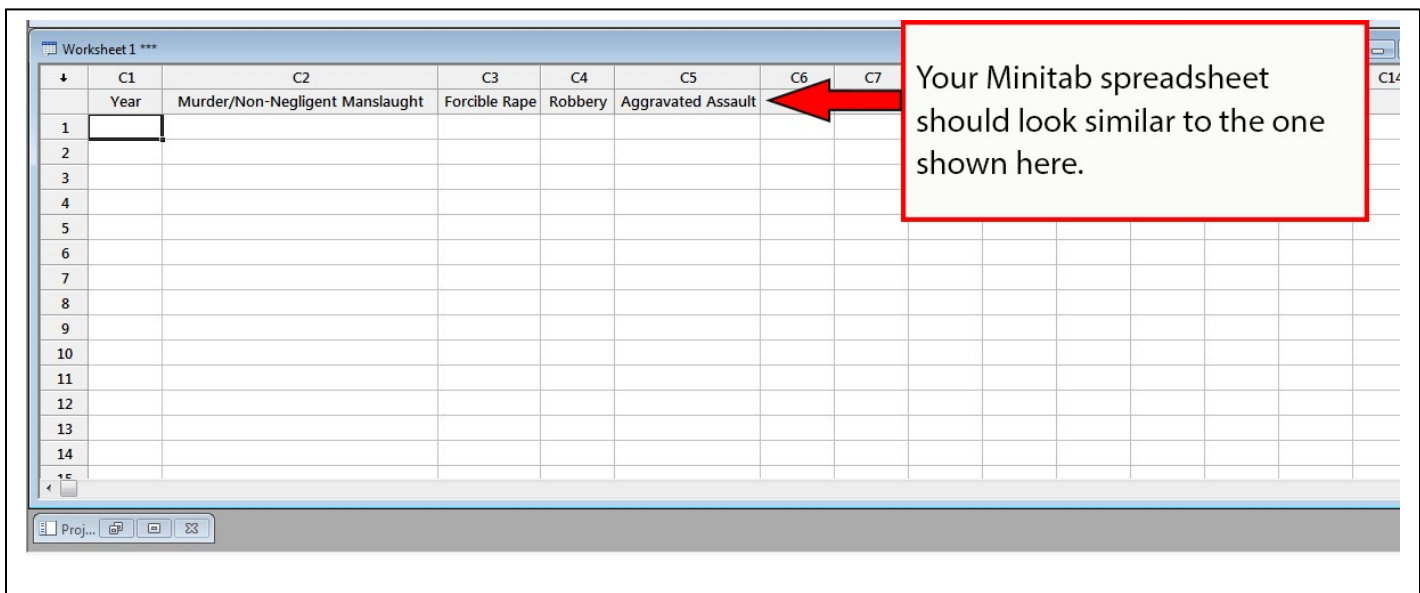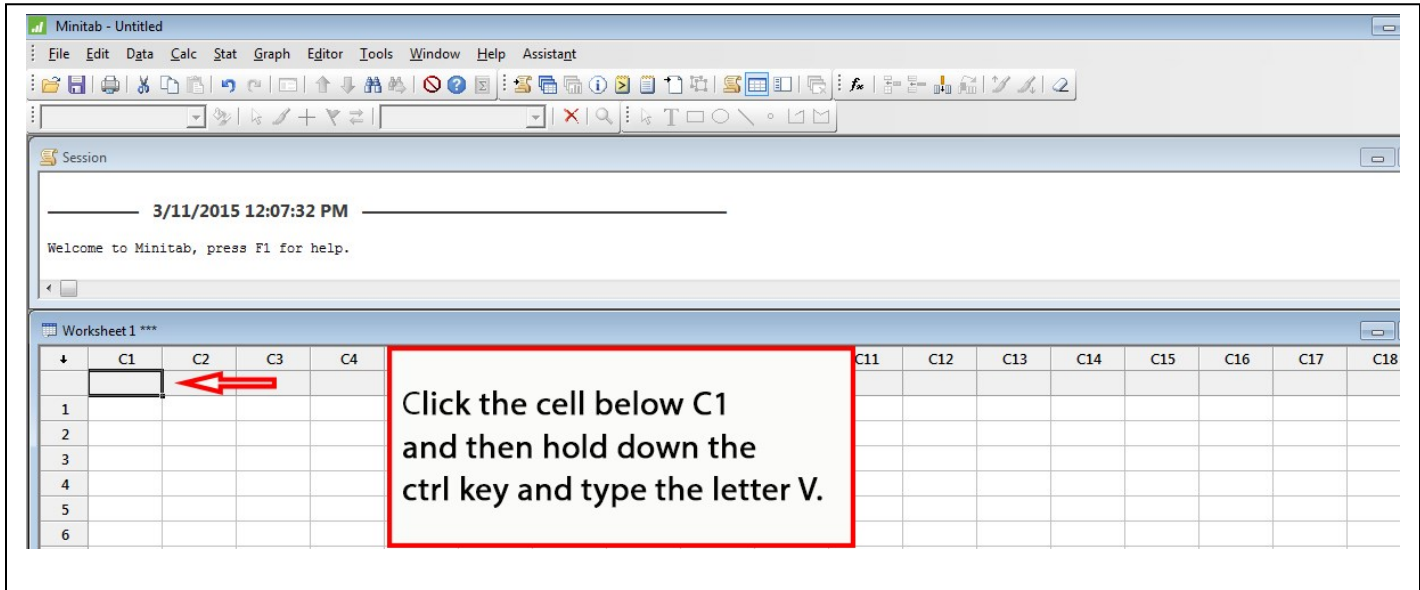|	A	B	C	D	E	F	G
1	Year	Murder/Non-Negligent Manslaughter	Forcible Rape	Robbery	Aggravated Assault		
2	2008	294	750	10603	13132		
3	2009	287	823	11367	13116		
4	2010	269	712	9449	12061		
5	2011	198	771	8054	11869		
6	2012	217	665	9385	11343		
7							

Select the first row. Hold down the ctrl key and type C

Select only the first row in the spreadsheet. Press ctrl + C to copy.

Ctrl + C

Step 2. Open Minitab and Copy/Paste Column Headers

Open the Minitab software. Depending on your operating system, you may need to click or double click to start the Minitab. Click in the grey cell below cell C1. Hold down the ctrl key on the keyboard and type the letter V. This will paste the column titles from the spreadsheet into Minitab.
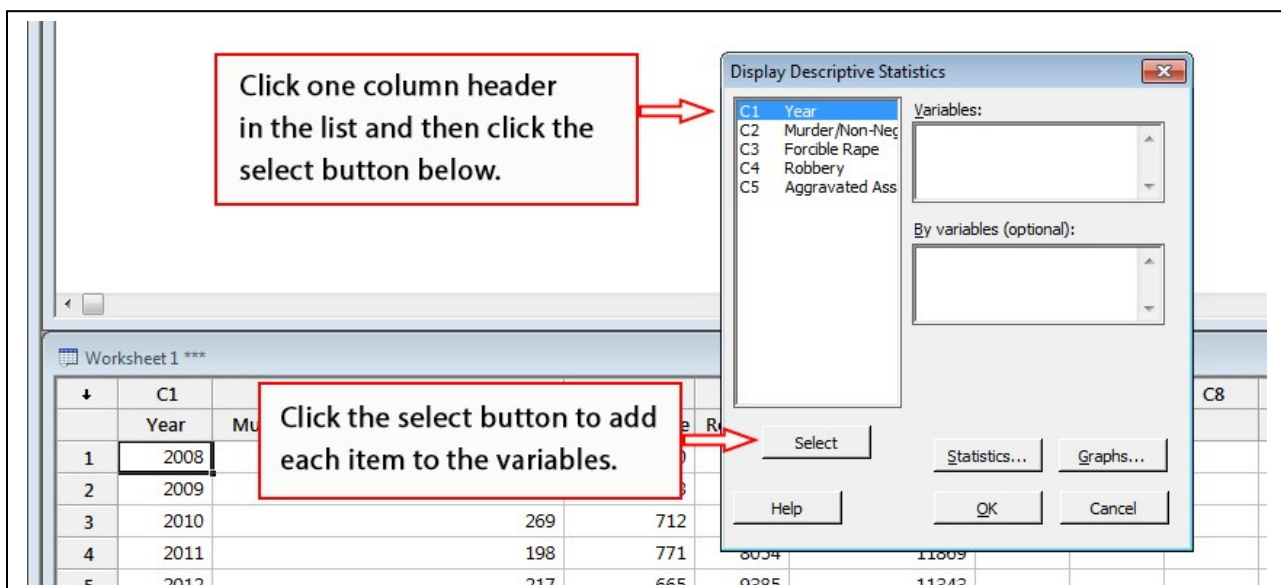
Step 3. Copy Data from Data Set

Next select the remaining data in the data set spreadsheet provided. Hold down the ctrl key or your keyboard and press the letter C to copy the data.

MCJ5100 W2A2 Data set_031115 [Read-Only]

	A	B	C	D	E
1	Year	Murder/Non-Negligent Manslaughter	Forcible Rape	Robbery	Aggravated Assault
2	2008	294	750	10603	13132
3	2009	287	823	11367	13116
4	2010	269	712	9449	12061
5	2011	198	771	8054	11869
6	2012	217	665	9385	11343

From the Data Set, select the remaining cells. Press and hold the ctrl key and type the letter C.

Ctrl + C

Step 4. Paste Data into Minitab

Click cell C1 row 2 in the Minitab spreadsheet. Press ctrl + V to paste the data in the Minitab spreadsheet.

Minitab - Untitled

File   Edit   Data   Calc   Stat   Graph   Editor   Tools   Window   Help   Assistant

Session

——— 3/11/2015 12:07:32 PM ———

Welcome to Minitab, press F1 for help.

Worksheet 1 ***

	C1	C2	C3	C4	C5	C6	C7
	Year	Murder/Non-Negligent Manslaught	Forcible Rape	Robbery	Aggravated Assault		
1	2008	294	750	10603	13132		
2	2009	287	823	11367	13116		
3	2010	269	712	9449	12061		
4	2011	198	771	8054	11869		
5	2012	217	665	9385	11343		

Click C1 row 1and then hold down the ctrl key and type the letter V.

ctrl + V

Step 5. **Display Descriptive Statistics**

Click **Stat** on the menu bar, then **Basic Statistics**, then click on **Display Descriptive Statistics**.
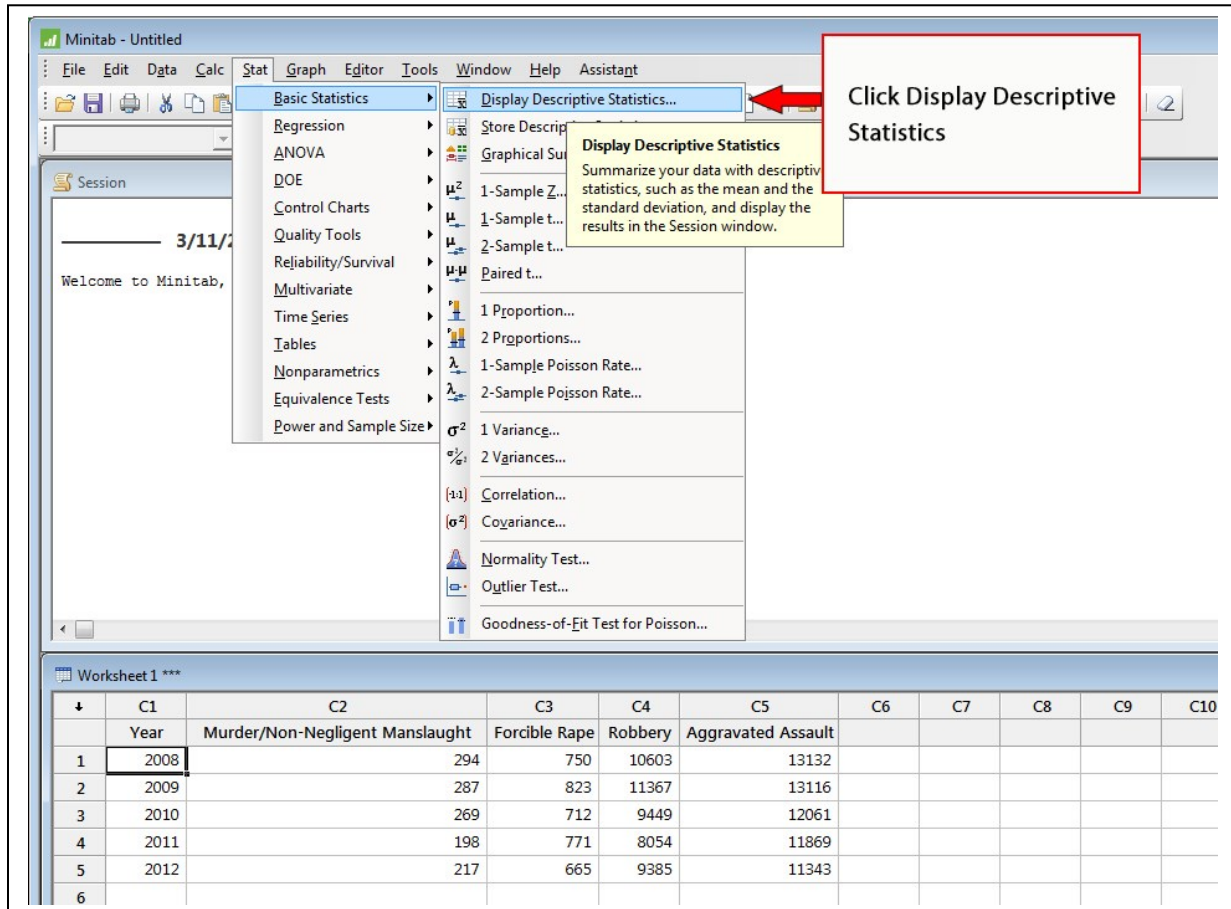
Step 6. **Display Descriptive Statistics**

Select one column header and add it to the variables list by clicking the select button. Repeat until all column headings have been added.

After all column headings have been added to the variables list, your screen should look like this:

Step 7. Select the Statistics Button
Select the **Statistics** button. In this menu you check only the boxes for the data you want shown in your results output (Session Window). For this exercise *check the same selections that are checked in the graphic below*, then select **OK** for both menus to get your output.

Step 8. Results are displayed in the Session Window

The **Session Window** displays the descriptive statistics data output for your analysis
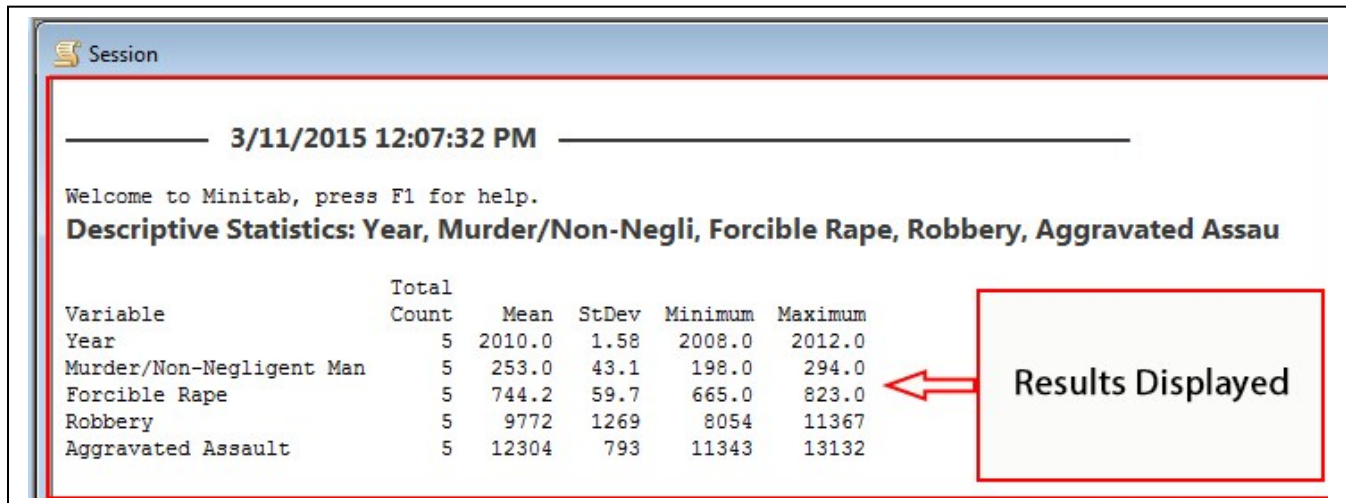
Student Response - Analysis of Data

Write your initial analysis of these violent crimes looking at the data set year by year to draw your hypothesis. Then use the output from this Minitab exercise to compare each crime using the Mean, Standard Deviation, Minimum, and Maximum data. Check your reading for the week for more information on how to apply this data in your analysis.

In addition to your written analysis support your findings by creating and recoded variables to produce a **pie chart** illustrating the variances in crimes 2008 and 2012.

Step 9. Producing a Pie Chart
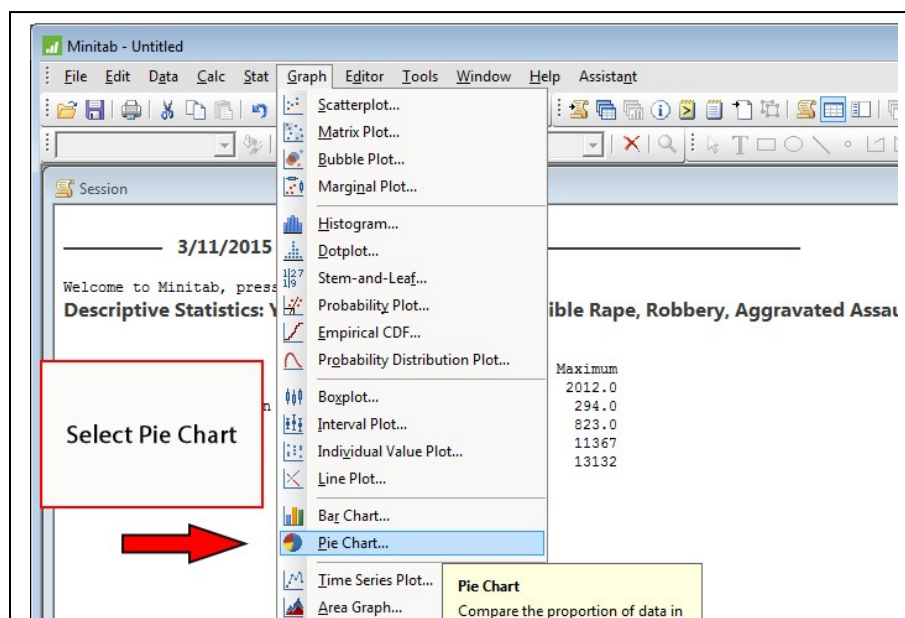
Step 9 A - Setting Pie Chart Options

Select the **Chart values from a table** option and click in the field for **Categorical variable**.

Step 9 B – Click C1 Year and click the Select button. This action adds Year to the Categorical variable.

Step 10. Add column headings to the Summary variable field
Click each column heading and click the select button to add each column heading to the Summary variable field. Click the **OK** button
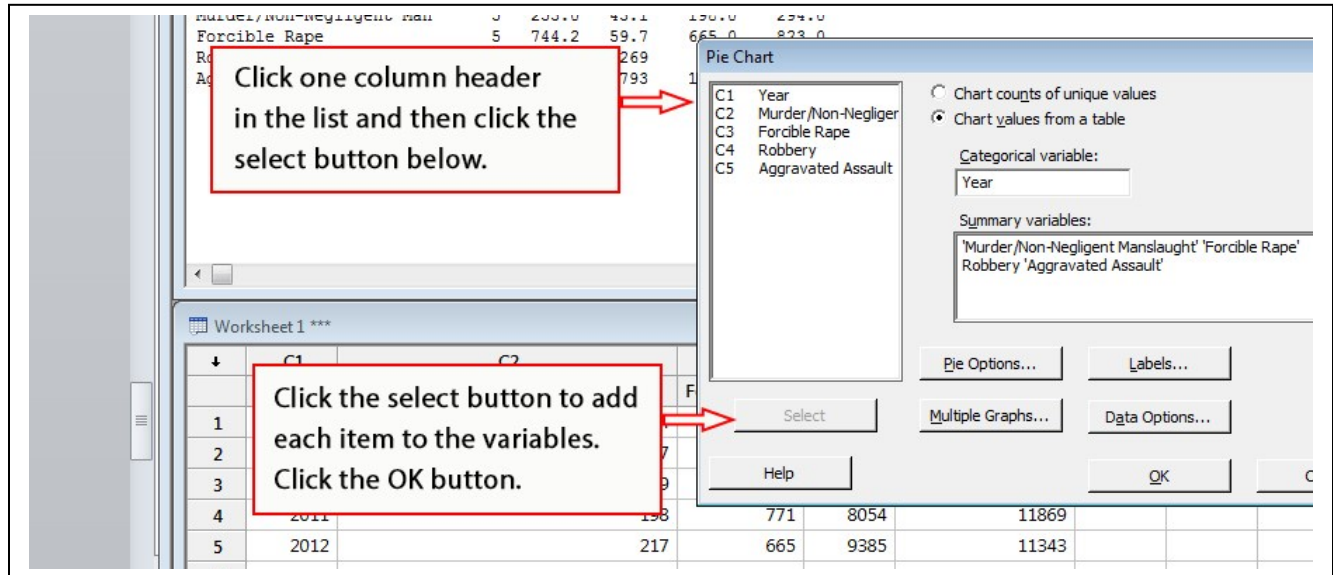
Step 11. The Pie Chart results
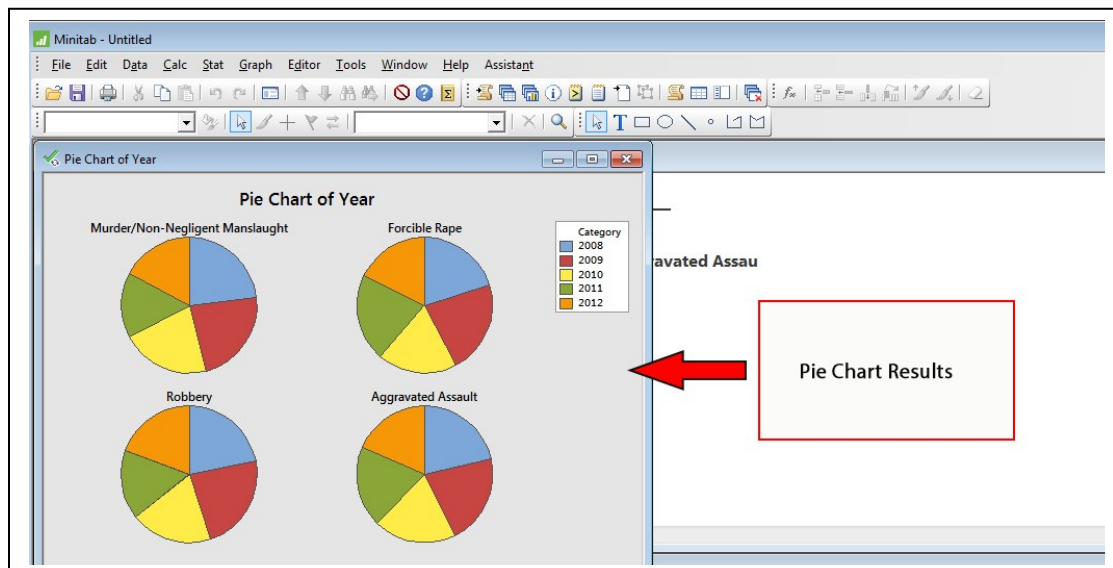
Experiment with variables in other Graphs

The Graph menu lists many chart options. Now that you know how to find the list of Graphs, try some other types of graphs, bar chart, histogram, line plot, etc., using different variables from your table of data.