**Chapter 7.3 Excel Instructions**

Use the **Butler.xlsx** file in the Chapter 7 folder of the Student Data files.

1. Highlight the data in column B and C.
2. Select the **Insert Tab** in the Ribbon.
3. Insert a Scatter Chart
   1. Add adequate axis and chart titles
4. Right click on any data point
   1. Select “Add Trendline”
   2. In the Trendline Options, select:
      1. “Linear”
      2. “Display Equation on chart”

**Calculate b1 and b0 manually**

1. Make columns “X Deviation from Mean”, “X Deviation Squared”, Y Deviation from Mean”, “Product X Dev and Y Dev”
2. Fill in each column with values
3. Calculate Mean Average of Miles and Time Column
4. Calculate Sum of “X Deviation”, “X Deviation Squared”, and “Product Columns”
5. Calculate b1 and b0 using the formulas

**Do they match the equation calculated by Excel?**