**Chapter 7.5 Excel Instructions**

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

Use Excel’s Regression tool to estimate the multiple regression model

1. Click the **Data** tab in the Ribbon
2. Click **Data Analysis** in the **Analysis** Group
3. Select **Regression** from the list of **Analysis Tools** in the **Data Analysis** tools box and click **OK**
4. When the **Regression** dialog box appears
   1. Enter D1:D301 in the **Input Y Range:** box
   2. Enter B1:C301 in the **Input X Range:** box
   3. Select **Labels**
   4. Select **Confidence Level:**
   5. Enter 99 in the **Confidence Level** box
   6. Select **New Worksheet Ply:**
   7. Select **Residuals**
   8. Click **OK**
5. Highlight the predicted values and Residuals column
6. Insert the Scatter Chart

**Are there any violations in the residuals?**

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

Use Excel’s Regression tool to estimate the multiple regression model

1. Click the **Data** tab in the Ribbon
2. Click **Data Analysis** in the **Analysis** Group
3. Select **Regression** from the list of **Analysis Tools** in the **Data Analysis** tools box and click **OK**
4. When the **Regression** dialog box appears
   1. Enter E1:E301 in the **Input Y Range:** box
   2. Enter B1:D301 in the **Input X Range:** box
   3. Select **Labels**
   4. Select **Confidence Level:**
   5. Select **New Worksheet Ply:**
   6. Click **OK**

**Check the Correlation between Miles and Gasoline Consumption and Miles and Deliveries**

1. In a cell type the formula “=CORREL(B2:B301, C2:C301)

**What is the correlation and what does it mean?**

1. In a cell type the formula “=CORREL(B2:B301, D2:D301)

**What is the correlation and what does it mean?**