Chapter 5 Learning Targets

* I can create and label a scatterplot.
* Looking at a scatterplot, I can determine a possible association including strength and direction.
* I can calculate (w/calculator) and interpret the correlation coefficient.
* I know the properties of the correlation coefficient.
* I understand that association does not apply causation.
* I can determine the explanatory and response variables.
* I can calculate (w/calculator) the slope and y-intercept for a regression line.
* I can correctly interpret in context both the slope and the y-intercept.
* I can explain the danger of extrapolation.
* I can use a regression equation to make predictions.
* I can calculate predicted values and residuals and use the residuals to create a residual plot.
* I can use the residual plot to determine if a linear relationship is appropriate.
* I can calculate and interpret in context the coefficient of determination.
* I can interpret the standard deviation of the least squares line.
* I can use the power transformation ladder and perform a simple transformation.
* I can interpret computer output for regression analysis.