

## Answer Sheet for Lab #7: Simple Linear Regression

Name: \_\_\_\_\_

Use your results from the Exercise portion of the lab to answer the following questions.

1. What is the estimated regression equation:  $\hat{y}_i = b_0 + b_1x_i$ ?
2. What is the interpretation of  $b_1$ ?
3. What is the standard error associated with the estimated slope coefficient,  $b_1$ ?
4. What is the t-stat and  $p$ -value associated with the estimated slope coefficient,  $b_1$ ? Is the  $x$  variable a statistically significant predictor of  $y$  at the 5% significance level? At the 1% significance level?
5. What is the total sum of squares, the explained sum of squares, the unexplained sum of squares, and the R-squared?

TSS =

ESS =

USS =

R-sq =