

Chapter 11 Homework

Name: _____

1. Using the data from the Chapter 10 homework problem on the Pearson correlation, calculate the slope of the linear equation that regresses Y on X (i.e., predicts Y from X).

2. Calculate the y-intercept for the linear equation that regresses Y on X.

3. What is the regression equation, based on the slope and the intercept you just calculated?

4a. What is the sum of squares residual equal to?

4b. What is the sum of squares regression equal to?

4c. What does adding the sum of square residual to the sum of square regression give you?

5. What is the average residual variance (\hat{s}_Y^2) equal to?

6. What is the standard error of the estimate (\hat{s}_Y) equal to?