

HOW DOES HOMEWORK AFFECT TEST SCORES?

Here is a [scatterplot](#)  showing average homework scores and average test scores for students taking STA2023 during another semester at Valencia College. You will also find the predictive linear model along with the R^2 shown on the scatter plot. Answer the following:

1. Discuss the association seen in the scatter plot to describe class performance in terms of direction, form and strength. (10 points)
2. Identify the explanatory and the response variable in this context and explain why they make sense. What are some of the other factors that could affect the response variable? (10 points)
3. There are some points that are far away from the trend line. What are they called in our Regression terminology and what recommendations can we provide to move those students' scores into the normal zone? (10 points)
4. What does it mean to have a positive residual in this context? Be specific. (10 points)
5. Now consider this course. What extra resources or strategies would you need to help improve your performance in our class? (10 points)