**Conceptual Questions**

What is the difference between variance and covariance?

What is homoscedasticity?

What are the regression coefficients? How do you interpret these values? How are they related?

Consider you were interested in how enjoyment in school predicted math test scores. In the correlation, r = .34, p < .001. When you test a multiple regression model with enjoyment in school and hours studying, the enjoyment standardized coefficient is the following: β = .26, p < .001. Why are Beta and r different here?

How can we trick GLM into modeling things that are not linear?

What is a suppressor relationship?

Why do you center predictors? What changes when you center your predictors? What does not change?