

NAME: _____

QUIZZ ON LECTURE 3

- How do you interpret the 0.083 in the following: $\widehat{\log(wage)} = 0.58 + 0.083educ$ (2pts)

 - Fill in the blank: “A linear model means linear in ...” (2pts)

 - How do you interpret the 8.4 in the following: $\widehat{lifeExp}_i = -9.1 + 8.4 \log(gdpPercap_i)$ (2pts)

 - How does the variance of the OLS estimator vary with sample size? (1pts)

 - How can you check visually for heteroskedasticity? And for normality of the residuals? (3pts)

 - **Bonus:** What is the formula for the (conditional) variance of the OLS estimator? Write it as a function of X and of an additional term (that you will need to define)
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