(Repeated example from Friday)

. reg gpoints hsgpa satv100 satm100 irdr

Source	ss	df	MS	Number of obs	=	614
Model Residual	+   54.5848954   384.93942	4 609	13.6462238 .632084434	F(4, 609) Prob > F R-squared	= =	21.59 0.0000 0.1242
Total	+   439.524316	613	.717005409	Adj R-squared Root MSE	=	0.1184 .79504
gpoints	Coef.	Std. Err.	t I	?> t  [95% Co	onf.	Interval]
hsgpa satv100 satm100 irdr _cons	.3537593 .0504954 .1301921 .2629642 54605	.0919229 .050856 .0513652 .0708958 .4460842	0.99 ( 2.53 ( 3.71 (	0.000 .173234 0.32104937 0.012 .029317 0.000 .123734 0.221 -1.422	79 76 13	.5342836 .1503697 .2310666 .4021941

- 1. Two lines of the table in the top right of the Stata regression output are highlighted in yellow.
  - a. In the first line, what are the 4 and 609 numbers following F? How do they relate to the number of observations in the sample (*N*) and the number of explanatory variables (*K*)?
  - b. What null hypothesis is being tested by this *F* statistic? What is the alternative hypothesis?
  - c. What is the 5% critical value for this test using Table B-2 on page 521 of the text?
  - d. What is the outcome of the test based on comparing the calculated *F* statistic to the critical value? What does that mean? Does this concur with the *p* value reported on the second highlighted line?

- 2. After running the regression, I performed the test command above.
  - a. What are the null hypothesis and alternative hypothesis?
  - b. What is the 5% critical value (from Table B-2)?
  - c. Interpret all of the numbers in the last two lines.
  - d. What is your conclusion?