

# **PROBLEM SET FIVE (PS5)**

**(Due on November 30 Mid-night, Saturday)**  
**(Submit on Canvas)**

## **Part 1: Questions from the textbook**

### Chapter 7

Exercises: 7.1, 7.2, 7.3(a) (skip (b)), and 7.9

## **Part 2: Stata questions**

1. Replicate Table 7.1 in the textbook (page 266). The data is downloadable from Canvas. You need to print out the Stata regression outputs and mark the places where you can find the numbers in Table 7.1. For example, to replicate column (1), you need to run a regression of test-score on student-teacher ratio and intercept. In the Stata output, highlight the coefficient (-2.28), standard error (0.52) ... etc.
2. For column (2) in Table 7.1, test the hypothesis:  
**the coefficient of “student teacher ratio” =the coefficient of “percent English learner”**
3. For column (3) in Table 7.1, test the hypothesis:  
**the coefficient of “student teacher ratio” =the coefficient of “percent English learner”=the coefficient on “percent eligible for subsidized lunch”= -0.5**
4. For column (4) in Table 7.1, test the hypothesis:  
**the coefficient of “student teacher ratio” =the coefficient of “percent English learner”+the coefficient of “percent on public income assistance”**
5. Perform an overall significance test for column (5) in Table 7.1.