

# EPPS 6313 : Recitation Session #9

Dec. 5. 2012

## Questions?

- You learned :
  
- Regression
  
- Anything else?

## Problem 1

(From the last session problem)Independent variable( $X$ ) is the number of cigarette the patients smoke a day, and dependent variable( $Y$ ) is Lung capacity.

(a)Make a regression equation for this

(b)If someone smokes 30 cigars, what is his or her estimated lung capacity?

Cigarettes( $x$ )	Lung Capacity( $Y$ )
0	45
5	42
10	33
15	31
20	29

## Problem 2

- (a) Fill the blanks
- (b) Test coefficients and joint hypothesis

```
reg educ age realrinc
```

Source	SS	df	MS			
Model	757.851196	2	378.925598	Number of obs =	686	
Residual	4482.34706	683	6.56273361	F( 2, ? ) =	( ? )	
Total	( ? )	685	7.64992445	Prob > F =		
				R-squared =	( ? )	
				Adj R-squared =	0.1421	
				Root MSE =	2.5618	

  

	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ						
age	-.0081875	.0081388	( ? )		-.0241675	.0077925
realrinc	.0000517	4.85e-06	( ? )		.0000421	.0000612
_cons	13.07255	.3297653	39.64	0.000	12.42507	13.72002