## EPPS 6313 : Recitation Session \#5

Oct. 10. 2012

## Questions?

- You learned :
- Hypothesis Test For Difference between Two means
- Two Sample Proportion Test
- Anything else?


## Problem 1

Ten cigarettes of brand A had an average nicotine content of 3.1 mg with standard deviation of 0.5 mg , while eight cigarettes of brand $B$ had an average nicotine content of 2.7 mg with standard deviation of 0.7 mg .

Test the difference (Assumption : two sets of data is independent)

## Problem 2

A researcher believes that children in a certain school have dangerous levels of lead in their blood. Assume the unsafe level is 60.0 parts per million ( ppm ). Blood tests are performed on a random sample of 229 kids from the school, finding a sample mean of 61.8 and a sample standard deviation of 15 .
Test the hypothesis that the mean level in the school is above the unsafe level at alpha $=0.05$.

## Problem 3

Use following data information to test whether there is a difference in the proportion of workers who belong to unions by marital status at the 0.01 level of significance.

- Married : Yes(\# is 350 , union proportion is 0.21 ), No (\# is 184 , union proportion is 0.13 )
- Union proportion : 0.18

