

Stats 100C: HW8 due Friday, May 29, 2009 (in class)

Page 163-168. Exercises 5.4, 5.9, 5.14, 5.16 and an extra exercise.

**Extra Exercise.**

An experiment was conducted to determine the effect of alcohol on reaction time. Four students were given no alcohol, six were given two drinks, and eight were given four drinks. The students' reaction times to a visual stimulus were then measured, yielding the following data:

No drinks	4	5	3	7				
2 drinks	6	4	7	5	8	9		
4 drinks	8	12	6	11	7	13	14	9

Using these data with  $\alpha = 0.05$ , test whether there is a significant difference in reaction time due to the number of drinks. Do this by hand but you can use software to verify your answers.