

**Homework Assignment 1 - 10 Points**  
**Due at beginning of class, Thursday, 22 January 2009**

This homework counts 10 points. Late homework will receive a grade of zero. Your homework must be typed, not handwritten.

In an experiment with two groups of five subjects (High School seniors and College Seniors) you observe the following scores on a “Positive Outlook on Life” test. Compute the mean and standard deviation of each group and calculate a t-test or an ANOVA to test the hypothesis that there is a “significant difference” between the means of the two groups:

High School Seniors		College Seniors	
Subject	Dependent	Subject	Dependent
1	10.0	6	12.0
2	11.0	7	11.5
3	9.5	8	13.0
4	9.0	9	11.0
5	10.5	10	12.5
Mean		Mean	
SDev		SDev	

Show your work and explain the basis of your conclusion. Please use R to solve this homework. Include as an appendix the R script that you used to solve the problem. The brief guide I handed out in class should be very helpful in getting you started.