Homework Assignment 1 - 10 Points
Due at beginning of class, Thursday, 24 January 2008

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 levels of an independent variable you observe the following values of the dependent variable for 10 subjects (five were tested under level 1 and five under level 2). Compute the mean and standard deviation of each column and calculate a t-test or an ANOVA to test the hypothesis that there is a "significant difference" between the means:

Level 1		Level 2	
Subject	Dependent	Subject	Dependent
1	8.0	6	10.0
2	9.0	7	9.5
3	7.5	8	11.0
4	7.0	9	9.0
5	8.5	10	10.5
Mean		Mean	
SDev		SDev	

Show your work and explain the basis of your conclusion.