**Psy 230 Lab 7 Part 2  
 5 points available  
Related Samples t-test**

***This assignment requires students to use SPSS to compute t-tests. For each problem, run the appropriate t-test in SPSS and type the following information: (1) State the null and alternative hypotheses; (2) Indicate your decision (retain Ho or reject Ho); and (3) Write a couple of sentences showing how the results would be reported in the Results section of an APA paper (See G&W Ch. 11 for "In the Literature" APA sample for a related samples t-test).***

1. Pelton (1983) reported that Olympic-level marksmen shoot differently if they fire between heartbeats rather than squeezing the trigger during a heartbeat. The small vibration caused by a heartbeat seems to be sufficient to affect the marksmen’s aim. A sample of *n* = 8 Olympic marksmen fire a series of rounds while a researcher records heartbeats. For each marksman, the total score is recorded for shots fired during heartbeats AND shots fired between heartbeats. Do these data indicate a significant difference? Use a 2-tailed test with alpha = .05.

Marksman During Between

A 93 98

B 90 94

C 95 96

D 92 91

E 95 97

F 91 97

G 92 95

H 93 97

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2.

Not Humorous Humorous

10 11

2 5

1 2

15 18

7 9

A researcher is interested in the impact of humor on memory for sentences. A sample of *n* = 5 participants read a mixture of 20 humorous sentences and 20 non humorous sentences. Scores indicate the number of sentences out of 20 accurately recalled by each participant.

Do the data indicate a significant difference between the two types of sentences? Again, use a two-tailed test with alpha = .05.

a. State the null and alternative hypotheses.

b. Indicate your decision (Retain or Reject the null hypothesis?)

c. Type a report of the results in APA format.