**Lab Assignment #6 Independent Samples t-test of Means Due October 31st**

Please create a Microsoft word document and type the questions below and provide the answers under each question.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Points: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Choose a test variable and a grouping variable from GSS (see lists below, but there are countless options). Take time to think about a good choice of variables for your t-test – this is part of the learning. First, explain what you are trying to understand – why did you choose these two variables? Second, now create an independent samples t-test of means. Place the output of your independent samples t-test on a Microsoft word document (the Group Statistics table and the Independent Samples Test table).
2. What is the mean for each of your groups? What does it actually signify? Explain in real language to someone who is not familiar with this database what the means signify. Based on the mean scores, do they indicate that there might be a relationship between your test variable and your grouping variable? Why do you think yes or no? Explain.
3. What is the alpha probability for this test of means (the Sig. 2-tailed column, Equal variances assumed)? Does it indicate that there is a relationship between your grouping variable and your test variable? Explain.
4. Answer questions 1 through 3 above as questions 4 through 6 using variables from one of the other databases. This time use a ratio variable from MTF or HINTS (see below).

**Ideas for Test Variables:**

GSS

R'S AGE WHEN 1ST CHILD BORN

HIGHEST YEAR SCHOOL COMPLETED, MOTHER

HIGHEST YEAR SCHOOL COMPLETED, FATHER

HOW MANY SEX PARTNERS R HAD IN LAST YEAR

NUMBER OF BROTHERS AND SISTERS

HIGHEST YEAR SCHOOL COMPLETED, SPOUSE

HOURS PER DAY WATCHING TV

WWW HOURS PER WEEK

MTF

Of the accidents you've been in, how many were after you consumed alcohol?

Age

Number of siblings

Number of Moving Violation Tickets in last 12 Months

Of the moving violation tickets you've received, how many were after you consumed alcohol?

Of the moving violation tickets you've received, how many were after you smoked marijuana?

HINTS

In the past 12 months, not counting ER visits, how many times did you go to a doctor, nurse, or other health professional?

On the days that you do any moderate physical activity, how long are you typically doing these activities?

At what age were you first told that you had cancer?

**Ideas for Grouping Variables (and there are many others, depending on the question you are trying to answer)**

Sex

Race (using two values from among the list of values)

Degree (using two values, one high and one low, from the list of values)