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

**T-Test Exercise** Open file: **binge.sav**

1. Using the **BINGE.SAV** data file, compare the means and perform a t-test to examine the relationship between gender (**GENDER**) and the number of drinks needed to get drunk (**GETDRUNK**).

State the Null Hypothesis and Alternative Hypothesis:

* + Null Hypothesis (H**o**): **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
  + Alternative Hypothesis (H**a**): **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

State the Independent and Dependent variables.

* + Independent variable: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
  + Dependent variable: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Who needs, on average, more drinks to get drunk, males or females? In addition to your answer, paste the means comparison table below:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is the mean difference?

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Is the difference statistically significant?

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Recode **GETDRUNK** to distinguish between needing five (5) or fewer drinks to get drunk and needing six (6) or more drinks to get drunk. Create a crosstabulation to examine the bivariate relationship between this new variable of getting drunk and gender. Ask for a *chi-square* and *lambda*. Compare your results of the crosstab to your results of the t-test and comparison of means.

What difference do you see—if any? List the chi-square and lambda and paste the crosstab below:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ANOVA Exercise** Open file: **gss2008.sav**

1. Use One-Way Analysis of Variance to compare:
   1. The mean age (**AGE**) of respondents who voted for Bush, Kerry, and Nader (**PRES04**). Which group had the youngest mean age and which had the oldest mean age?

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* 1. The mean years of school completed (**EDUC**) of respondents who voted for Bush, Kerry, and Nader (**PRES04**). Which group had the most education and which had the least education? Was the group difference statistically significant (i.e., was the significance value less than .05)? Convey a meaningful conclusion regarding the role of education a person had and his/her voting attitudes in the presidential election of 2004.

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