Who is your TA (check one)?

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**SOC 3811/5811 – STATA Assignment #3**

FOR ALL STUDENTS

In this exercise, you will use data from the General Social Survey (GSS). The GSS interviews a random cross-section of about 3,000 Americans every other year. For an introduction to the GSS, go to the GSS website ([here](https://gss.norc.org/)).

For this exercise, you will analyze GSS data … specifically the variables [ZODIAC](http://sda.berkeley.edu/D3/GSS10/Doc/gs100009.htm#ZODIAC), [WORLD6](http://sda.berkeley.edu/D3/GSS10/Doc/gs100021.htm#WORLD6), and [LIFE](http://sda.berkeley.edu/D3/GSS10/Doc/gs100023.htm#LIFE). We will treat WORLD6 as a continuous variable in this example. Be sure to read the on-line documentation well enough to understand what survey questions were asked to generate these variables and to ascertain value labels and missing data codes. (Note that “IAP” means “inapplicable to this person,” “DK” means “don’t know,” and “NA” means “not applicable.”)

For this exercise, I have constructed a data file (“STATA Assignment 3.dat”) that has these three variables. ZODIAC is in columns 9 through 10, WORLD6 is in column 11, and LIFE is in column 12.

Use STATA syntax files that you already have (from the first assignment, or from class examples) and modify them to accomplish the following goals. When you are done, type or paste your answers for questions #2 through #8 below into a word processor (e.g., Microsoft Word) and turn in the assignment via Canvas.

1. Read the data file into STATA
2. Be sure to declare missing data codes to be missing.
3. Report the mean value of the “world is harmonious vs. world is chaotic” variable separately for people of each zodiac sign
4. Carry out an ANOVA test of the hypothesis that people’s views of the world as harmonious/chaotic do not vary by zodiac sign. Use significance level =0.05.
5. Generate a crosstable relating zodiac sign to people’s views of whether life is exciting, routine, or dull
6. Carry out a 2 test in order to understand whether there is a statistically significant relationship between people’s zodiac sign and their views of whether life is exciting, routine, or dull. Use significance level =0.05.
7. Based on the results above,do people’s views of the world as harmonious vs. chaotic vary significantly by their zodiac sign?
8. Based on the results above, do people’s views of whether life is exciting, routine, or dull vary significantly by their zodiac sign?

**HOW TO DO ANOVA IN STATA**

Imagine that X is a discrete variable and that Y is a continuous variable. How do you generate descriptive statistics (mean, standard deviation, etc.) about Y for the separate categories of X? How do you do an ANOVA involving those two variables? Below I provide STATA syntax that would work. You will need to modify this code to suit your purposes.

*STATA*

sort X

by X: tabstat Y, stats(mean sd n)

anova Y X

**HOW TO DO 2 ANALYSIS IN STATA**

Imagine that X and Y are both discrete variables. How do you generate a cross-tabulation of X and Y? How do you do a 2 test involving those two variables? Below I provide STATA syntax that would work. You will need to modify this code to suit your purposes.

*STATA*

tabulate X Y, chi2