To complete the following exercises, you need to open the ADVENTURES.SAV file. The questions are ten points each, and I do give partial credit.

Produce and analyze frequency distributions and appropriate measures of central tendency for the variables RACE, HEALTH, and TEENSEX.

Cut and paste all three frequency distributions here:

Then, use your output to answer Questions 1 through 6.

1. (RACE) The largest racial grouping of respondents to the 2018 GSS was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_%. The second-largest grouping was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_%.
2. Which measure of central tendency (mean, median, or mode) is most appropriate to summarize the distribution of RACE, and why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value of that measure is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. (HEALTH) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_% of respondents to the 2018 GSS reported that they are in good health. This was followed by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_% of respondents who reported being in excellent health, whereas about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_% of respondents reported being in either fair or poor health.
2. Which measure of central tendency (mean, median, or mode) is most appropriate to summarize the distribution of HEALTH, and why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value of that measure is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. (TEENSEX) Nearly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_% of respondents to the 2018 GSS believe that sex before marriage, particularly for teens 14 to 16 years of age, is either always wrong or almost always wrong. Only \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_% think it is not wrong at all, whereas \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_% think it is sometimes wrong.
2. Which measure of central tendency (mean, median, or mode) is most appropriate to summarize the distribution of TEENSEX, and why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value of that measure is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Now examine the descriptive statistics for variables EDUC and TVHOURS. You need to find the mean and standard deviations for both. Then, use your output to answer Questions 7 and 8. Remember, by definition, 2/3 of respondents fall between plus and minus one standard deviation of the mean.

1. (EDUC) The mean number of years of education of respondents to the 2018 GSS is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and two thirds of respondents report having between \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years of education.
2. (TVHOURS) Respondents to the 2018 GSS report watching an “average” of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hours of television a day, with two thirds of them watching between \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hours of television per day.

For number 9, think about what you have just been learning. How can you go about answering this question?

1. Are respondents to the 2018 GSS generally satisfied that the government is doing enough to halt the rising crime rate (NATCRIME) and deal with drug addiction (NATDRUG)? How do you know?

Using the dataset that you made for the Chapter 4 homework, pick one of the variables and either run a frequency table or descriptive statistics (depending on which is appropriate for the variable you chose). Copy and paste the frequency distribution or descriptive statistics output. Then, describe your findings in the space provided. Review Writing box 5.1 on page 62 for help on the written analysis portion.

1. Abbreviated variable name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the question that this variable name represents?

Copy and paste your output here:

Written analysis:

Five-point bonus: Do descriptive statistics for PAEDUC and compare them to EDUC. Which of the two has the greater amount of dispersion (the responses are more spread out around the mean)? How do you know?