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

**NOTE: Type your answers in the appropriate fields and make answer fields larger as needed. Please turn in a printed copy next Friday (October 12) before lab begins. Assignments will lose 5% of the total possible points for each day they are late.**

***For the following questions please use the HW01Data.csv file. Provide the syntax, commands, etc., that you used to complete each problem; report the answer to the problem in the space provided*.**

1. What are the dimensions of the data set?

Code/Syntax:

Answer:

2. What data type (e.g., numeric, character, etc.) is in each column?

Code/Syntax:

Answer:

3. How many participants were female? How many were male?

Code/Syntax:

Answer:

4. What is the frequency (tally) of education completed (e.g., HS and MA) in the data set? That is, for each level of educational attainment, how many participants were in that level?

Code/Syntax:

Answer:

5. In this data set, how many males are taller than 72 in? What are their row numbers in the data set?

Code/Syntax:

Answer:

6. (a) What is the average age of participants based on their level of educational attainment? That is, what is the mean age of participants who had completed HS, 2 years of college, etc.?

(b) What is the average age of participants based on their level of educational attainment and their biological sex? That is, what is the mean age of females who had completed HS, 2 years of college, etc., and the mean age of males who had completed HS, 2 years of college, etc. We recommend tabling your results.

Code/Syntax:

Answer:

7. The formula for BMI is as follows:

(a) Create a new variable in the data frame called “bmi.” Calculate the BMI for the participants and place these values in the “bmi” column of the data frame.

(b) Calculate the average BMI separately for men and for women.

(c) The Centers for Disease Control ([CDC](https://www.cdc.gov/healthyweight/assessing/bmi/adult_bmi/)) reports the following criteria for categorizing BMI:

|  |  |
| --- | --- |
| **Category** | **Body Mass Index** |
| Underweight | Less than or equal to 18.5 |
| Normal/Healthy Weight | Greater than 18.5 but less than 25 |
| Overweight | Greater than 25 but less than 30 |
| Obese | Greater than or equal to 30 |

Based on these criteria, how many men fall into each weight status category? How many women fall into each weight status category? Create an APA-style table to summarize your results.

Code/Syntax:

Answer: