

## SPSS ASSIGNMENT #3 Averages and Variability

35 points

In this assignment, you will first calculate descriptive statistics (averages and variability estimates) for MACROoptimism and MICROoptimism. Then, you will learn how to calculate the averages and variability estimates for MICRO and Macro optimism, but this time separately for males and females. For step-by-step instructions, see the SPSS applications at the end of chapters 3 and 4.



Note that your answers must be just that – *your* answers. This is true for all remaining assignments!

**Always have a backup of your work!**

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**Part A:** Calculate the mean, median, mode, range, variance, and standard deviation for the MICRO and MACROoptimism.

The table below summarizes the statistics you will need to input into Canvas. These values are obtained from your SPSS output.

12 points

OPTIMISM	mean	median	mode	range	variance	std. deviation
MICROoptimism	?	?	?	?	?	?
MACROoptimism	?	?	?	?	?	?

**Do not make any rounding errors!** Refer to the video I linked you to for assignment 2 (if necessary) Report your numbers to the correctly number of decimal places. Consult the [decimal reporting guidance document](#).

**Part B:**

For the male and female participants separately, calculate the descriptive statistics for MICRO and MACRO optimism.

The tables below summarize the statistics you will need to input into Canvas. These values are obtained from your SPSS output.

10 points

MICROoptimism	mean	median	range	variance	std. deviation
Male participants	?	?	?	?	?
Female participants	?	?	?	?	?

10 points

MACROoptimism	mean	median	range	variance	std. deviation
Male participants	?	?	?	?	?
Female participants	?	?	?	?	?

### Part C:

Use the mean and standard deviation respectively to answer the last two questions. **Look at the data from Part A.**

For all participants combined, \_\_\_\_\_ was associated with the least optimism and \_\_\_\_\_ was associated with the most optimism. **1.5 points**

For all participants combined, \_\_\_\_\_ had the most variable scores and \_\_\_\_\_ had the least variable scores. **1.5 points**

### BONUS POINTS!

Copy and paste all the relevant SPSS tables into a single document (doc, docx, pdf). Hi-light those numbers you used to complete the tables above. Do not hi-light any other numbers. Upload this into Canvas. Do all this correctly and earn 5 bonus points that you can redeem at the end of the semester for "rewards".