NAME _____

Assignment on JASP Essentials

Directions: This homework will walk you through all of the software skills that you will use for the course. This will give you the essential skills that you will be expected to use the rest of the semester. The file **Directions for JASP Essentials** will walk you through everything you need to do this homework. Leave whole numbers as whole numbers, but round answers with decimals to two decimal places.

Part 1: JASP

Follow the steps in ***Directions for JASP Essentials*** to create a JASP dataset from scratch.

1. Frequencies and Statistics for Categorical Variables

Frequency of Male	13
Valid Percent of Female	45.83
Frequency of Experimental	12
Number of Missing for Gender	0

2. Descriptive Statistics

Minimum for Pretest	73.31
Mean for Posttest	73.05
Standard Deviation for Pretest	4.60
Skewness statistic for Pretest (*not Std. Error*)	-0.32
Standard error of Kurtosis statistic for Posttest	0.92

3. Splitting a Scale Variable by Groups

Mean for Experimental Group	82.10
Standard Deviation for Experimental Group	4.80

Part 2: Analysis

Answer these questions from the output of the analysis in the homework assignment. Leave whole numbers as whole numbers, but round answers with decimals to two decimal places.

4. *Using the* **Pearson's *r* Correlation** *analysis with* ***JASPessentials.***

Value of Pearson's *r* (*correlation coefficient*) between pretest and posttest: 0.16

5. *Using the* **One-Sample *t* Test** *analysis with* ***JASPessentials.***

How many degrees of freedom (*df*) for the pretest: 23

Value for Shapiro-Wilk ***W*** test of normality: 0.96

Sample size (N)? 24

6. *Using the* **Independent-Samples *t* Test** *analysis with* ***JASPessentials.***

Mean for the Control group on the posttest: 78.20

The value of *t* for the overall T-Test: -5.36

Cohen's d effect size: -2.19

7. *Using the* **Paired-Samples *t* Test** *analysis with* ***JASPessentials.***

Mean Difference on the Paired Samples Test: 8.92

The *p* value for the Shapiro-Wilk Test of Normality: 0.17

Descriptives plot: for which test was the mean lower? posttest

8. *Using the* **One-Way ANOVA** *analysis with* ***JASPessentials.***

Mean Square for Major: 143.51

Post Hoc: Mean Difference between Archeology and Business majors: -1.67

9. *Using the* **Mixed Repeated Measures ANOVA** *analysis with* ***JASPessentials.***

Descriptives Plot: Did the groups begin with approximately the same mean on the pretest? yes

Which group had lower means on the posttest and follow-up? experimental

Value for Greenhouse-Geisser ε test of sphericity? 0.90

10. *Summary with* ***JASPessentials.***

Did the experimental and control groups score differently on the pretest than the group from last semester with a mean of 81? no

Who scored higher on the posttest, the experimental group or the control group? control group

Which analysis we did showed that the experimental intervention worked to create a significant improvement**?** mixed repeated ANOVA

Does JASP open…

Program	Use Data Set	Yes	No
Excel	JASPessentials.xlsx	☐	☐
SPSS	JASPessentials.sav	☐	☐
Text	JASPessentials.csv	☐	☐
JASP	JASPessentials.jasp	☐	☐

Check your work: did you leave whole numbers as whole numbers but round answers with decimals to two decimal places?

30 points

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