**Lab Assignment 2**

Experimental Psychology

Due in your lab on 10/2

**Overview:**

This assignment is designed to test SPSS skills in regression and further your progress in conducting analyses relevant to Paper 1. Work independently on this assignment, even if you plan to have a partner for Paper 1. Your assignment should include the following:

* Typed cover sheet
* Type your answers to all questions, using the template provided (final page of this document). Hand-written answers will not be accepted.
* After the end of the assignment, print and attach all of your Output (the charts and graphs SPSS gives you when you perform a statistical operation)
* Follow the APA Style guidelines noted in the tutorial
* The present analyses can overlap with any of those you have conducted previously in LA1. In fact, this is a useful approach if you like the variables used previously and are close to getting analyses finalized for Paper 1.

**Problems:**

1) Review the instructions for Paper 1 (see Course Calendar, due on 10/23). What type of weakness is it if a student conducts analyses that include fewer than two multiple regression analyses – Negligible, Minor, Moderate, Major, or a Fatal Flaw?

2) What type of weakness is it if a student misinterprets one *p*-value – Negligible, Minor, Moderate, Major, or a Fatal Flaw?

3) What type of weakness is it if a student’s theoretical model does not make any sense (e.g., happiness causing lower depression, GPA causing early-childhood attachment, conservative views causing age) – Negligible, Minor, Moderate, Major, or a Fatal Flaw?

4) What is the highest score (out of 120 points) that a student could receive if making the mistake noted in #3? [Round to one decimal]

5) In any data set, find three continuous variables that, in your mind, are independent variables (causes) of a presumed dependent variable (effect), with the stipulation that the three independent variables must correlate statistically significantly with the dependent variable. Summarize their three correlations with the dependent variable in complete sentences in APA style.

6) Using the same variables, conduct a multiple regression analysis using the three independent variables to predict the dependent variable. Summarize the results in complete sentences in APA style, noting the correlations, multiple *R*, *R*2, and *p*-values. [Feel free to copy/paste any part of your response from #5, but update/tweak for flow.]

7. Split the file based on a theoretically-meaningful dichotomous (two category) variable other than gender; the split variable should be one that you think might influence the magnitude of the associations you found in #5-6. Repeat the analyses in #6, summarize the results for each group in APA style, and comment on the extent to which findings varied by group.

8) Repeat Problems 5-7 for a different set of variables (at least one of the variables must differ; swapping in a similar dependent variable could be wise, but is not required).

Answer Sheet

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| --- | --- |
| Question | Answer |
| 1 (1pt) |  |
| 2 (1pt) |  |
| 3 (1pt) |  |
| 4 (1pt) |  |
| 5 (4pts) |  |
| 6 (4pts) |  |
| 7 (5pts) |  |
| 8 (13pts) |  |