**Lab Assignment 5**

Experimental Psychology

Due in your lab on 12/4

**Overview:**

This assignment is designed to test SPSS skills in *t*-test and ANOVA. 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.
* Follow the APA Style guidelines noted in the tutorial
* The present analyses cannot overlap with any you conducted during the tutorial.

**Problems:**

1) Analytic Decision Making. What analysis would you use if you wanted to examine whether age is associated with verbal IQ?

2) Analytic Decision Making. What analysis would you use if you wanted to examine whether multivitamin use (yes/no) predicts age of death?

3) Analytic Decision Making. What analysis would you use if you wanted to examine whether gender identity (male vs. female), extraversion (total score from 8-item survey), and college GPA predict salary at age 40?

4) Analytic Decision Making. What analysis would you use if you wanted to examine whether emotional intelligence differs across the several most common college majors?

5) Using any of our data sets, find and report on a *t*-test where Levene’s test was non-significant and the *t*-test was significant. Use complete sentences and APA style.

6) Using any of our data sets, find and report on a *t*-test where Levene’s test was significant and the *t*-test was significant. Use complete sentences and APA style.

7) Using any of our data sets, find and report on a *t*-test where Levene’s test was non-significant and the *t*-test was non-significant. Use complete sentences and APA style.

8) Using any of our data sets, find and report on a *t*-test where Levene’s test was significant and the *t*-test was non-significant. Use complete sentences and APA style.

9) Using any of our data sets, find and report on a statistically significant ANOVA.

10) Using any of our data sets, find and report on a non-significant ANOVA.

Answer Sheet

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| --- | --- |
| Question | Answer |
| 1 (1pt) |  |
| 2 (1pt) |  |
| 3 (1pt) |  |
| 4 (1pt) |  |
| 5 (5pts) |  |
| 6 (6pts) |  |
| 7 (3pts) |  |
| 8 (3pts) |  |
| 9 (6pts) |  |
| 10 (3pts) |  |