**Psy 430 Thinking & Problem Solving Lab**

A researcher wants to investigate the relationship between anxiety and performance on problem solving task. He used an independent measures design and measured the number of problems correctly solved in a 5-minute period. The data he collected are displayed in a matrix where the levels of task difficulty make up the rows and the levels of anxiety make up the columns.

 *Anxiety Level*

 Low Medium High

Easy 3 2 9

 1 5 9

 1 9 13

 6 7 6

*Task Difficulty* 4 7 8

 0 3 0

 2 8 0

Difficult 0 3 0

 0 3 5

 3 3 0

1. Use SPSS to run the overall analysis. Be sure to request marginal means, descriptive statistics, and measures of effect size. Also request a plot depicting changes in correct solutions across task difficulty for each of the anxiety conditions.

2. Now follow up on the significant interaction with a simple main effects analysis.

*Please run the analysis in SPSS and print the output from the overall ANOVA and from the simple main effects analysis.*

3. Use alpha = .05 to interpret all of the results. Please type a short report of the results in APA format. Be sure to include one table and one figure.