**Reading Worksheet PCA**

Last week, we analyzed data for a principal components analysis of the Questionnaire for the Measurement of Psychological Reactance. At the beginning of the semester, you identified an instrument for undergraduates to complete. Use the data from that instrument to answer the following questions to determine the factor structure of the instrument. Use the remaining time today to start on the worksheet. You will turn in the worksheet next week.

Important: Before conducting the analysis, make sure to reverse score any necessary items.

1. Using the eigenvalue greater than 1 rule, how many factors/components should be retained?
2. Interpret the scree plot. How many factors/components should be retained?
3. Use the Lautenschlager article for parallel analysis. How many factors/components should be retained? Identify the table you used and report the *chance* eigenvalues (from table) for the number of factors you retained.
4. Look at the pattern matrix for the selected factor/component solution. Identify the items loading onto each factor/component. What theme emerges for each proposed factor/component?
5. Look at the internal consistency reliability output for each factor/component. Compare and report the Cronbach’s alpha and average item reliabilities.
6. Identify and explain why any items should be reworded, revised, or removed.
7. Submit your SPSS output file for your analysis.