

**BUS 735: Business Decision Making and Research**

**Instructor: Dr. James Murray**

**Fall 2011**

**Homework due on Wednesday, November 16, 2011.**

Enter the raw data from SAB, page 254 concerning ESL scores for speaking, writing, and reading for 60 international students; then answer the following questions. When conducting a hypothesis test, indicate what statistical method you are using, and remember to include all necessary steps of the hypothesis test.

1. Is there a difference in speaking proficiency between men and women?
2. Is there a difference in reading proficiency versus writing proficiency?
3. Are there differences in proficiency between the three categories: speaking, reading, and writing? If so, answer which categories are significantly different and rank the categories from highest to lowest.
4. Accounting for differences in gender, are there differences in proficiency between the three categories: speaking, reading, and writing?
5. Is there an interaction effect between category of proficiency and gender? If so, simply examine the means (no further hypothesis testing) and describe how the differences in reading, writing, and speaking proficiencies depend on gender.