SPSS Procedures for Chapter Examples
Chapter 15: Multiple Comparisons
In this module, we will learn to run a multiple comparison analysis with SPSS. We will use the data set we saved as hsb500R.

Step 1. Start
a. Open SPSS. Open data set hsb500.

Step 2. Run Tukey and Newman-Keuls Post Hoc Test
In ANOVA run, we find out the differences are significant. To determine where the differences locate, we need to run Tukey and Newman-Keuls Post Hoc Test.

a. From the SPSS menu bar, click on Analyze – Compare Mean – One-Way ANOVA. You will see the “One-Way ANOVA” dialogue box as shown in Figure B7-(a).
b. Move the dependent variable matchach to the “Dependent List” box.
c. We want to compare the math achievement test scores by students’ father’s education levels. So, move the variable faed into the “Factor” box.
d. Click on the PostHoc button, you will see the “One Way ANOVA: Post Hoc Multiple Comparisons” dialogue as in Figure -(b). Check Tukey for Tukey test, and check S-N-K for Student-Newman-Keuls test. Click Continue.
e. Now, you are back to the ANOVA dialogue. Click on OK. You will have the results for the One-Way ANOVA, and the Tukey and Newman-Keuls Post Hoc tests.

Figure B.7
SPSS Multiple Comparison—Tukey and Newman-Keuls Post Hoc Test