SPSS Procedures for Chapter Examples
Chapter 18: Multiple Linear Regression

In this module, we will learn to run the REGRESSION procedure with SPSS. We will use the data set we saved as hsb500R (the math achievement is the criterion variable, and mosaic test, visual test, father’s education, and mother’s education are the predictor variables.).

Step 1. Start
   a. Open SPSS. Open data set hab500.

Step 2. Run Linear Regression analysis
   a. From the SPSS menu bar, click on Analyze – Regression – Linear. You will see the “Linear Regression” dialogue box as shown in Figure B10.
   b. From the left box, first you click on the criterion variable mathach, and move it to the right into the box labeled “Dependent”
   c. Then, move the predictor variables mosaic, visual, faed, maed, one by one, into the box labeled “Independent(s)” – because of the size of the box, you may only see two listed there, keep moving all four predictor variables into the box.
   d. In this example, you do not change any default options. Click on OK. You will see the linear multiple regression results in the output window.

Figure B.10
SPSS Linear Multiple Regression Analysis