Chapter 19 – Exercise 1

Complete a one-way ANCOVA on the Self-Confidence Scale scores, with age group as the independent variable and the Social Skills Inventory as the covariate (CPS50.sav – SCS, Age, and SSI)

Step 1. Start
   a. Open SPSS. Open data set cps50.sav.

Step 2. Run ANCOVA
   a. From the SPSS menu bar, click on Analyze – General Linear Model – Univariate. You will see the “Univariate” dialogue box as shown in Figure B11.
   b. Move the variable SCS to the “Dependent Variable” box.
   c. We want to compare the test scores by the “father’s education” with “mosaic test” as covariate. Move Age into the “Fixed Factor(s)” box, and then move SSI into “Covariate(s)” box.
   d. To obtain adjusted Means for the ANOVA for SCS with SSI as a covariate, Click on Option button. You will see the Univariate Option dialogue. Move OVERALL and SSI into the “Display Means for” box, and click on Continue.
   e. Now you are back to the Univariate dialogue. Click on OK. You will have the results for the analysis of covariate and the adjusted means.

![Univariate Dialogue Box](image)

![Univariate Option Dialogue Box](image)

Figure B.11. SPSS Analysis of Covariance

Use the same procedures for Exercises 2 and 3:

Exercise 2: Dependent Variable – PAS, Independent Variable – Age, Covariate – SAS

Exercise 3: Dependent Variable – ILS, Independent Variable – Age, Covariate -- SSI