

## Exercise 9 Multiple Regression.

These exercises have been prepared for use in conjunction with Chapter 9 of the 4<sup>th</sup> edition of “SPSS for Psychologists” by Brace, Kemp and Snelgar (2009)

1. Load the data file called **1991 U.S. General Social Survey.sav**. This is a demonstration data file which for many years has been supplied with every copy of SPSS. The file will be located with the SPSS program files. The exact location varies slightly, but on our computer systems the file is in the folder **c:\program files\SPSSInc\Statistics17\Samples\English** (or, if you are running version 16 try **c:\program files\SPSSInc\SPSS16\Samples**).
  - a. Open the data file and familiarise yourself with the variables. This file contains more than 40 variables for each of about 1500 respondents.
  - b. The variable “prestg80” is a scale variable which codes the respondent’s occupational prestige score (a higher value indicates a more prestigious occupation). We are going to investigate which other variables predict the occupational prestige score. Undertake a multiple regression to determine whether occupational prestige is predicted by the respondent’s sex, their race, their general happiness (happy), the number of children they have (childs), the highest year of school completed (educ), and whether the respondent takes illegal drugs (hth5) or has a drinking problem (hlth4).
  - c. Report the results of this analysis.
  - d. Repeat this analysis separately for men and women. Are there any major differences in the pattern of results for these two groups?