Research Methods 2

Week 3: Exercise Sheet 2, graphical summaries

This sheet asks you to perform a series of exercises using Minitab and leaves you to find out how to do these for yourself. Some of you may prefer this opportunity to explore Minitab and its help system yourself, and this will certainly improve your skills with the program. However, as this is only the second exercise where you have used Minitab to perform some statistical analyses, some of you may appreciate some hints as you proceed. These can be found by clicking on the appropriate links.

Question 1.

Use the Minitab worksheet already downloaded for this week (the worksheet is called WEEK3.mtw: there is a link on the main page for this week) for this exercise sheet. Open the file in Minitab.

The first column, named '**Ques1**', contains the haemoglobin concentrations (in g/dl) of 35 healthy young males. Use Minitab to produce a boxplot of these data [would you like a hint?]. Make a copy of 'Ques1' in column 2 and change the largest value, 18.2 g/dl, to 28.2 g/dl. This is the same manoeuvre used in question 3 of exercise sheet 1 and you may wish to refer to the hint in that question. Now re-draw the boxplot. Describe the differences between these two plots.

Question 2.

Use Minitab to draw a histogram of the data in 'Ques1' [would you like a hint?]. Now redraw this histogram with twelve intervals and with four intervals [even if you did not need a hint with the first part, you may like one now]. Comment.

End of Question sheet 2