See reading assignment under Web Resources on course web page.

Problems (due Fri. 9/18):

Use the “caffeine.dat” dataset from the course web page. Conduct a brief analysis to address two questions:

• Is the center of the population of Beck depression scores the same among caffeine-deprived individuals as among those who are not caffeine-deprived?

• Is the center of the population of beats the same among caffeine-deprived individuals as among those who are not caffeine-deprived?

In each case, determine which measure of center is appropriate for these data. Carry out the appropriate test. Your answers should include R code and output, and written sentences justifying your steps, and interpreting the results.

If you are new to R, do the following:

1. Problems from the online book called Simple R by Verzani (under Web Resources). Note that the associated R library is called “UsingR”, not “Simple.”

   2.6 (p. 8), 3.4 (p. 19), 10.3 (p. 68)

If you are familiar with R and need more challenge, do these instead:

1. Problems from the online book called Using R for Data Analysis and Graphics by Maindonald (under Web Resources):

   problem 5, p. 20
   problem 2, p. 30

2. all the problems on p. 61 (you don’t have to turn these in)

Submit your homework electronically through ICON by Fri. 9/18 in the form of a text file containing all of your R code and the text output. For now, you may just describe any graphical output that you produce. (We will learn during the week of 9/14 how to embed R code, output, and graphics into \LaTeX documents, but you don’t need to do that for this homework!)