

Please recall from the syllabus: You are expected to type your homework. Each solution should include a brief summary of the problem asked. You may write in by hand mathematical notation, graphs, and so on. You may make minor corrections and additions by hand as well. Please include the problem number (as listed on the assignment) in your write-up. Some assignment problems consist of two or more problems from the book. Please use a stapler or paper clip rather than tearing the corners of multiple papers together. Please include your name and the discussion section you attend (M 2:25, M 4:00, T 1:20, T 4:00) at the top of your assignment to make it easier for us to return your homework to you. (The discussion section you attend might not be the one you for which you are registered, which is okay.) The best time to turn in homework is in class (or before). You may turn it in to Professor Larget's office by 2pm on the due date. Future assignments that are not typed neatly (as described above) or are incomplete will not receive full credit.

I suggest that you do some of the supplementary problems on pages 73–79 of the text in preparation for your first mastery examination.

This assignment includes a problem from Chapter 2 on standard deviations and the empirical rule and several probability problems.

1. Problems 2.38 and 2.39.

Learn how to use your calculator to find the mean and standard deviation of this set of data. The second mastery exam will almost certainly include a problem where you are asked to find a standard deviation using your calculator.

In R, there is a function `var` for finding the *variance*, which is the square of the standard deviation. The standard deviation of a variable `x` would be `sqrt(var(x))`.

2. Problem 3.6
3. Problem 3.7
4. Problem 3.10
5. Problem 3.11
6. Problem 3.13
7. Problem 3.14