

Stat 205 Homework 6

Write up the first two problems on one page, and the last two problems on another page.

1. Exercise 7.5.13, **six bar wrasse** data. Carefully define μ_1 and μ_2 , and state the null and (one-sided) alternative hypotheses for this problem. Do you need to check for normality for these data? Why or why not? Carry out the test at the $\alpha = 0.05$ level (not $\alpha = 0.1$ as the book states) using R; show your code. The data are on the course webpage.
2. Exercise 7.7.3(a) using R; show your code. Carry out the test at the $\alpha = 0.05$ level (not $\alpha = 0.1$ as the book states).
3. Exercise 8.2.3 (**cAMP** data). Use R and show your code.
4. Exercise 8.4.6 (**Junco birds** data) using `binom.test` in R; show your code.