

MODULE 8 ASSIGNMENT

Execute the provided R script to answer the questions related to ANOVA models. This assignment uses a data set on crabs and require us to use gender and species of crab to predict the body depth of the animal. For more information of this data set, you may execute the help function (line 4 in script).

Questions:

1. In one-way ANOVA, what is the sum of squares between for gender? Answer to 2 decimal places:
2. In one-way ANOVA, what is the sum of squares within for gender? Answer to 2 decimal places:
3. Does Gender have a significant effect on body depth for crabs?

Multiple Choice:

- a. Yes
 - b. No
4. When performing two-way ANOVA, which of the main effects are significant?

Multiple Choice:

- a. None
 - b. Gender
 - c. Species
 - d. Both
5. At what level is the interaction between gender and species significant? Select the single best answer:

Multiple Choice:

- a. 99%
- b. 97.5%
- c. 95%
- d. 90%