Biostatistics: Problem Set 3 – Introductory Statistics

Name: Addie Moore   Score = 16.5   /25

GitHub repo: https://github.com/armoor21/PS3-Applying-Stats.git

Submitted on time?   ◯ Y   ⦿ N

Project element	Value	Pts earned	Comments
Successfully fork a GitHub repository and create a new RStudio project from fork • Project called "Lastname-PS3"	1	0.5	Project not named following instructions
Set up project and workspace, pull in and examine data, fix mistakes • Lastname-PS3.qmd • Use at least 2 functions • Assign data types • Error checking	2	1.5	You did not error check any of your numeric variables.
Analyze Q1: Does body mass differ b/w these 5 species of bats, and if so, how does body mass differ b/w species? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.25	Line 76 - faceted histogram would give better view and allow you to see outliers. Line 92 - you are NOT running the anova next, just viewing the anova table. The model you created is the anova. Also call summary (model_bat_mass) Final plot is not a good choice for ANOVA see fig 5.11. Need 2 df for output
Analyze Q2: Does body length differ b/w species and, if so, how ? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.25	Same feedback as for Q1
Analyze Q3: Is the number of ticks found on the bats associated with their sex or age? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	2	Incorrect test, and incorrect logic for choosing test, as sex and age are both categorical variables. Should be chi-square test of independence.

Analyze Q4: Disregarding species, is there a relationship in bats b/w tail length and body length? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3	You did not run a 1-way ANOVA (line 275 results). This is a linear regression. What is adjusted R^2 value and what does it tell you? Not clear that you know which test you were running.
Thought processes are well documented outside of code blocks, code is well commented, all steps prior to data analysis	4	3.5	You should be putting much of the analysis portion that you have as comments inside of code chunks into the main .qmd outside of code chunks as commentary.
Successfully open a pull request to add your changes to the forked repository • Commit changes • Open PR • Link pasted in Canvas	1	0.5	You did not initiate a pull request on github.
Code represents material we have covered in GSWR Chs 3-5 and not elsewhere	1	1	

Additional feedback
Two days late so I'm taking off an additional 2 points.