

Intro to Data & Probability - Project Rubric

IMPORTANT: If the analysis is completed using software other than R, or not written up using R Markdown, the project should receive a 0 regardless of its content.

Part 1: Data (3 points)

- 2 pt for correct reasoning for generalizability – Answer should discuss whether random sampling was used. Learners might discuss any reservations, those should be well justified.
- 1 pt for correct reasoning for causality – Answer should discuss whether random assignment was used.

Part 2: Research questions (11 points)

- 3 pts for each research question (x 3)
 - Should be phrased in a non-causal way (1 pt)
 - Should be well defined / not vague (1 pt)
 - Is clear why this is of interest to the author / audience (1 pt)
- 2 pts for at least two of the questions involving three variables

Part 3: EDA (30 points)

10 pts for each for each research question (x 3)

- 3 pts for plots
 - Plots should address the research questions (1 pt)
 - Plots should be constructed correctly (1 pt)
 - Plots should be formatted well – size not too large, not too small, etc. (1 pt)
- 3 pts for summary statistics
 - Summary statistics should address the research questions (1 pt)
 - Summary statistics should be calculated correctly (1 pt)
 - Summary statistics should be formatted well – not taking up pages and pages, etc. (1 pt)
- 4 pts for narrative
 - Each plot and/or R output should be accompanied by a narrative (1 pt)
 - Narrative should interpret the visuals / R output correctly (2 pts)
 - Narrative should address the research question (1 pts)

Overall (6 points)

- Uploaded HTML document resulting from the Rmd template: 1 pt
- Organization: 1 pts
- Readability of the text: 2 pts
- Readability of the code: 2 pts