

ASSIGNMENT#1: INSTRUCTIONS

DUE: FEBRUARY 22, 2021 @ 11:59pm

Description of Data

This data set contains the achievement test (English as a Second Language) results and some background data collected during experimental trial of a new ESL program. The study was one year in duration. Students were allocated to the experimental ESL program class and a regular program control class on a random basis. Vocabulary and grammar tests were administered to the students in both groups at the beginning and the end of the school year.

Data can be found in the excel file: *ESLprogram.xlsx*

Variables

The dataset includes 24 cases and 7 variables:

- Student ID
- Group (1 - experimental, 2 - control, 9 - missing)
- Gender (1 - male, 2 - female, 9 - missing)
- Pre-test vocabulary scores (scores range from 0 - 25, 99 - missing)
- Pre-test grammar scores (scores range from 0 - 25, 99 - missing)
- Post-test vocabulary scores (scores range from 0 - 25, 99 - missing)
- Post-test grammar scores (scores range from 0 - 25, 99 - missing)

What do I need to do?

1. **Present a description of your variables: (2 marks)**
 - a. Provide a codebook with the following elements: Variable name; Variable label; Value & Value label and Variable Type (nominal, ordinal, continuous).
 - b. Please present this as a table. This should fit on one page.
 - c. Upload to the appropriate section on Crowdmark.
2. **Examine your data using jamovi and provide output: (2 marks)**
 - a. Produce appropriate descriptive statistics and graphics – examples of these are measures of **central tendency** and **variability**, **frequency tables**, **histograms**, and **bar charts**.
 - b. Variables should be examined for **overall data and broken down by at least one specific grouping or characteristic** of the sample data.
 - c. Provide the output from jamovi. It is important that your jamovi output contains the information you have included in your written interpretation or summary. It should not include unnecessary or inappropriate analysis.
 - d. Upload to the appropriate section on Crowdmark.

3. Summarize your findings: (6 marks)

- a.** Provide a written summary of your findings from part 2 above.
- b.** This can be no longer than one-page, can be single or double-spaced, should follow proper reporting of statistics and should not include any tables or graphs.
- c.** Please ensure you provide enough information/description so that someone who has not seen your data can understand.
- d.** Please use complete sentences and no bullet points.
- e.** Upload to the appropriate section on Crowdmark.