

Case 19: Student Psychological Well-Being Survey

A researcher is developing a survey to measure psychological well-being among university students. The survey consists of two sub-scales:

- Emotional Stability (ES): Measured by 5 items on a 5-point Likert scale (1 = Strongly Disagree, 5 = Strongly Agree).
- Life Satisfaction (LS): Measured by 5 items on a 10-point scale (1 = Not At All Satisfied, 10 = Completely Satisfied).

The researcher wants to evaluate whether the results are reliable and whether the survey measures what it is intended to measure. ([download data](#))

Initial Questions

1. What are the research objectives?
2. What are the statistical questions?
3. What is the response variable, and what is the data type of the response variable?
4. What are the explanatory variables of interest?
5. Are there covariates?
6. What is the population of interest?
7. What is the subject, and what is the number of distinct subjects?
8. Are there subject-level data?
9. Are response variables dependent (repeated measures / clustered subjects)?
10. Are the subjects selected randomly?
11. Are the subjects randomly assigned to different groups?

Initial Thoughts