



Assessing Validity and Reliability of the Data you Collect

“Validity and Reliability”



Perceptual Learning-Style Questionnaire

Suppose we want to measure learning style for high school students. We are considering using the *Perceptual Learning-Style Preferences Questionnaire*, but need to assess its validity and reliability before using it in our study.

- What steps should we take to ensure the instrument has external validity?
- How could we determine whether the instrument has internal validity?
- Does the instrument have face validity?
- How could we determine whether the instrument has content validity?
- How could we determine whether the instrument has criterion validity?
- How could we determine whether the instrument has construct validity?
- How could we determine whether the instrument has inter-rater reliability?
- How could we determine whether the instrument has test-retest reliability?
- How could we determine whether the instrument has parallel-forms reliability?
- How could we determine whether the instrument has internal consistency reliability?



Make it better...

- Working in groups of two to three, discuss ways to improve the quality, validity, and reliability of the *Perceptual Learning-Style Preferences Questionnaire*. In several paragraphs, explain what revisions you would make and how those changes would improve the quality, validity, and reliability of the instrument.