

# Psych 560 Principles of Psychological Measurement

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## Unit Objectives

### Item Analysis

Students should be able to:

1. List the guidelines offered by DeVellis for writing test items.
2. Briefly describe, then list the advantages and disadvantages of, each of the following formats of test items:
  1. Dichotomous format
  2. Polytomous format
  3. Likert format
  4. Category format
1. Explain the concept of "item difficulty", telling how it is derived, what information it reflects, and how it should be used in a determination of item selection on a test.
2. Explain the concept of "item discriminability", what information it reflects, and how it should be used in a determination of item selection on a test.
3. Explain the two methods used to derive a test's "item discriminability"-- extreme group method, and the point-biserial method.
4. Know how to interpret an item characteristic curve for good and poor items.

5. First explain, then tell, the advantages and disadvantages of item response theory.
6. Briefly discuss your authors' viewpoints on the limitations of item analysis.