

What is the Most Appropriate Test?

**Evaluating Sources of Evidence for Reliability, Validity, and Test Fairness using Test
Reviews from the MMY**

The goal of this assignment is to determine the most appropriate test among the three tests that you selected from the Mental Measurements Yearbook with Tests in Print database.

Paper Format: double space, Times New Roman 12 points, 5 pages max., references are not included in the page limit.

1. Selecting 3 tests

- 1) State the intended purpose; why do you want to use a test? Some examples are as follow:
 - a) Measuring depression among college students
 - b) Screening for autism among toddlers
 - c) Evaluating 3rd graders' English literacy level
 - d) Measuring cognitive functioning of Alzheimer's patients
 - e) Measuring PTSD symptoms for female veterans
- 2) Describe the target examinees such as college students within the age range of 20-45, toddlers from 12 to 36 months, 3rd graders, Alzheimer's patients with ages over 65, female veterans especially related to the Vietnam War.
- 3) Search for available tests from the Mental Measurements Yearbook with Tests in Print (MMY) database from the CI library website.
 - a) Go to <https://library.csuci.edu/research/databases-az.htm>

- b) Select Mental Measurements Yearbook with Tests in Print

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- + [Market Research and American Business, 1935-1965](#) (Adam Matthew)
- + [MAS Ultra](#) (EBSCO)
- + [MathSciNet](#) (American Mathematical Society)
- + [Medieval Travel Writing](#) (Adam Matthew)
- + [MEDLINE®](#) (Clarivate)
- + [Mental Measurements Yearbook with Tests in Print](#) (EBSCO)
- + [Mergent Intellect™](#) (FTSE Russell)
- + [MERLOT Collection](#) (CSU System)
- + [Middle Search Plus](#) (EBSCO)
- + [Military & Government Collection](#) (EBSCO)
- + [Military and Intelligence OneFile](#) (Gale)
- + [MLA International Bibliography \(Includes Literature Online and ABELL\)](#) (ProQuest)
- + [Music Online: Classical Music Library](#) (Alexander Street Press)
- + [Music Online: Smithsonian Global Sound for Libraries](#) (Alexander Street Press)



- c) Type some keywords to find tests for the intended purpose and target examinees. For example, if you type Cognitive and Alzheimer, three tests are recommended under the two keywords. Quick Test of Cognitive Speed (A), CERAD, and Severe Cognitive Impairment Profile.
- d) Read test descriptions (authors, publication date, publisher information, purpose, test category, population, scores, administration, time, and price data) and check whether the tests you found are suitable for your purpose and target examinees.

- e) The MMY usually provides two reviews for each test. Evaluate reliability and validity evidence based on the information from the test reviews, while considering the information related to test fairness and other practical aspects (e.g., ease of administration, accommodations, and user-friendliness).

2. Write Paper

Your paper should include the categories below.

[Page 1] Describe why you considered the three tests to measure the target trait (e.g., depression, anxiety, and social skills) that you are interested in. In other words, provide the intended purpose to use the tests you selected and why the tests you selected seem appropriate to measure the target trait that you are interested in measuring. Then, provide a table which includes basic information of all tests you selected. See the frame below (you can include the frame below for your paper).

Table 1. Test Information

	Name of Test 1	Name of Test 2	Name of Test 3
Author			
Publication Date			
Purpose			
Test Category			
Target Population			
Scores			
Administration (individual or group)			
Time			

[Pages 2 ~ 4] Compare reliability and validity evidence among the three selected tests using the information from the test reviews. When comparing reliability evidence, provide the types of reliability (statistical approaches to estimate reliability coefficients) and their magnitudes (reliability coefficient values) in a summary fashion. Also, comment about whether the reliability coefficients are acceptable for the given purpose of test use and if the samples used for estimating these reliability coefficients are appropriate and representative. When comparing validity evidence, provide the types of validity, more correctly sources of validity evidence, (e.g., content, criterion-related, and construct validity) and their magnitudes (e.g., correlation coefficient values) in a summary fashion. In addition, include reviewer's points related to any weakness in gathering validity evidence such as representativeness, sample size, and/or flaws in research procedures/designs. **Also, include any remarks from each reviewer if test fairness issues were mentioned especially related to how test fairness was examined and what conclusions were made.** In other words, you should point out if reviewers mention any potential factors that may jeopardize test fairness among various genders, ethnic/racial groups, groups with various national or regional origins, groups with various religions, groups with various sexual orientations, or groups with various socioeconomic statuses. Remember that you should incorporate fairness into your evaluation process.

[Page 5] After evaluating sources of evidence for reliability, validity, and fairness for the three tests that you selected, you need to determine which test is the most appropriate based on your intended purpose and target examinees. You should provide **your rationale about why you concluded that one test is more appropriate than the other two tests selected based on the synthesis of all evidence related to reliability, validity, fairness, and practicality (format,**

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Assignment Instruction

ease of administration, scoring, and interpretations, test accommodations for special needs, time, and cost).