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Methodology

Topic

Validity and Types

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# Validity & Types

This type mostly explains how well the collected data covers the actual area of investigation, basically it means measure what is intended to be measured. In this type of validity is face validity, content and construct validity, criterion validity.

Face validity is the degree to which a measure appears to be related to a specific construct, in the judgment of non-expert such as test takers and representatives of the legal system. That is a test has face validity if it content simply looks relevant to the person taking the test, it evaluates the appearance of questions in test form.

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## Content Validity

The degree to which item is an instrument reflect the content universe which the instrument will be generalized in the field of is, it highly recommended to apply content validity while the new instrument is developed, in general content validity involves evaluation of a new survey instrument in order to ensure that it includes all the items that are essential and eliminates unnecessary items to a particular construct domain.

## Construct Validity

In this mostly we refered that how well can translated or transferred a concept idea or behavior that construct into a functional

and operationalization (reality), the  
operationalization construct validity  
has two components, convergent and  
discriminant

### (A) Discriminant Validity

Discriminant validity is the extent to which latent variable a discriminates from other latent variable, discriminant validity means that a latent variable is able to account for more variance in observed variable associated with it than

### (B) Convergent Validity

A parameter often used in sociology and other behaviour science refers to the degree to which two measures of constructs the theoretically should be related are fact often.

### (c) Criterion validity

The extent to which a measure is related to an outcome. It measures how well one measure predicts an outcome for another measure. A test has this type of validity if it is useful for predicting performance or behaviour in another situation. Alternative perspective that de-emphasize the conceptual meaning or interpretation of test scores.

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Reliability and Type

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# Reliability & Its Types

The consistency or stability of assessment result is considered to be characteristic of scores or results, not the test itself. When we used a psychophysical test to measure some attribute or behaviour. For example when we conduct a test a collect score obtained by the same individual. By the time when we re-examined with test on different occasions. Or with different set of equivalent items, or under other variable meaning. Conduct And some time it is defer to the precision or accuracy of measurement of score.

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There are main three important types

Test retest Reliability  
split half or internal consistency Reliability  
Parallel forms reliability or equivalent Form.

### Test Retest Reliability

In this type of character reliability the sample form of the test is administered twice on the same sample with reasonable time gap. In this way two management of the same forms of the two independent sets of scores. The two sets when correlated give the value of the reliability coefficient.

Measure

Measure

Time 1

Time 2

There is same test, same sample & different time



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Measure instrument at two  
time for multiple persons  
and this test we compute  
Correction between the two  
measure ~~And~~ and assumes there  
is no chance in the  
underlying trait between  
time 1 and time 2  
Clear instructions for administ.  
research particular and rates  
tasks or some time questions  
in particular participants  
first language or target  
language at appropriate  
level of difficulty and  
unambiguously phrased task.  
The time between administrator  
of the tests should  
be taken into account  
and depends on what  
is being measured by  
the test

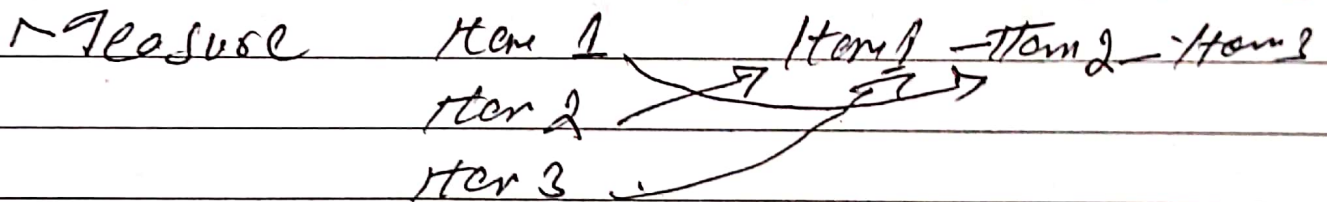
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## Split-half Reliability

In this type of method commonly we used odd-even test method in this method the test is divided into two equal or nearly halves. It indicates the homogeneity and other non internal consistency reliability. Ex: Example.

Split-half Correlation



Indicates the subjects scores on some trials consistently match their scores on other trials. Careful item wording divided by specifications & field test and item analysis to be constructor of test with relevance to item responses.

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## Parallel Forms Reliability

The alternate forms technique to estimate reliability is similar to the test-retest method except that different measures of behaviour are collected at different times. If the correlation between the alternative forms is low it could indicate the considerable measurement error is present because two different scales were used. The development of equivalent forms specifications that describe tool content prior to data collection to ensure equivalence. It uses one set of questions divided into two equivalent sets where both sets question the