



## Selection and Standardization of a Modified Version of Cattell's Culture Fair Intelligence Test (Scale 3) in Libya: A Study on Misurata Students

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### Abstract:

This study examined the psychometric properties of the Cattell Culture Fair Intelligence Test (Scale 3 – Forms A and B) in a Libyan sample of students from Misurata ( $N = 1,240$ ). Initial analysis revealed weak discriminatory power for many items in both forms, leading to the development of a modified version comprising items with acceptable discrimination indices. The modified version demonstrated strong validity (correlations with Raven's Matrices and academic achievement), high reliability (Cronbach's  $\alpha$  and test-retest coefficients), and appropriate age differentiation (older students outperformed younger ones), with no gender differences. Local norms (percentiles and deviation IQ scores) were established, offering a validated tool for intelligence assessment in Libya's educational and psychological contexts.

**.Key words:** *Cattell Test, Culture-Fair Intelligence, Psychometric Properties, Validity, Reliability*

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