

AN INVESTIGATION OF DIMENSIONALITY ACROSS GRADE LEVELS AND
EFFECTS ON VERTICAL LINKING FOR ELEMENTARY GRADE MATHEMATICS
ACHIEVEMENT TESTS

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An Investigation Of Dimensionality Across Grade Levels And Effects On Vertical Linking For Elementary Grade Mathematics Achievement Tests

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Summary : Free an investigation of dimensionality across grade levels and effects on vertical linking for elementary grade mathematics achievement tests pdf download - it is a widely held belief that mathematical content strands reflect different constructs which produce multidimensionality in mathematical achievement tests for grade 3-8 this study analyzes the dimensional structure of mathematical achievement tests aligned to nctm content strands using four different methods for assessing dimensionality the effect of including off-grade linking items as a potential source of dimensionality was also considered the results indicate that although mathematical achievement tests for grades 3-8 are complex and exhibit some multidimensionality the sources of dimensionality are not related to the content strands or the inclusion of several off-grade linking items the complexity of the data structure along with the known overlap of mathematical skills suggest that mathematical achievement tests could represent a fundamentally unidimensional construct refining the definition of dimensionality to include detectable dimensionality is discussed

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