

## V-A-K GRADE 7 STUDENTS' ERROR IN MATHEMATICAL PROBLEM SOLVING ABOUT QUADRILATERAL

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### **ABSTRACT**

*The purpose of this study is to obtain a type of errors and their reason of 7<sup>th</sup> -grade students in mathematics problem-solving test about quadrilateral based on visual learning style: auditory learning style, and kinesthetic learning style. The error of this study is based on Newman's Error Analysis that are reading, comprehension, transformation, process skill, and encoding. The subject of this study were 9 students that are 3 students for each learning style student group. This classification is based on the result of learning style questionnaire and test. The analysis data are done by the following steps: data reduction stage, data presentation stage, verification stage, and conclusion. The results showed that (1) visual learning style student mostly makes transformation error, (2) auditory learning style student mostly makes transformation error and process skill, (3) kinesthetic learning style student don't have a tendency on the type of errors. Generally the reason for error, whereas visual, auditory, and kinesthetic, are low prerequisite lessons such as ration, algebra, and one variable linear system. There are solutions for its error such as (1) visual learning style student reads the lesson, (2) auditory learning style student does a contemporary tutorial, and (3) kinesthetic learning style student uses a model.*

**KEYWORDS:** *Visual, Auditory, Kinesthetic, Newman's Error Analysis, Problem Solving*