

**PENGARUH BANYAK OPSI PADA BUTIR INSTRUMEN BELIEF
TENTANG MATEMATIKA SISWA SMP TERHADAP RELIABILITAS
MAKSIMAL**

**THE EFFECT OF OPTIONS NUMBERS ON ITEMS INSTRUMENT OF
BELIEF ABOUT MATHEMATICS JUNIOR HIGH SCHOOL STUDENTS
TOWARD THE MAXIMUM RELIABILITY**

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ABSTRACT

This study aims is to find out the effect of options numbers on items instrument of belief about mathematics toward maximum reliability. The method used was experimental method with one way analysis of variance (ANOVA) design 3x1. The population is all students of state Junior high school of Medan academic year 2014/2015. Sampling was done by multi-stage random sampling in order to obtain a sample 1050 students of three state Junior high school of Medan. Research hypotheses were tested using one way ANOVA. Research results conclude that: (1) The maximum reliability of the instrument of belief about mathematics with five options is higher than the maximum reliability of the instrument of belief about mathematics with four options and three options; and (2) The maximum reliability of the instrument of belief about mathematics with four options is higher than the maximum reliability of the instrument of belief about mathematics with three options. Therefore, more many options number on items instrument so more high maximum reliability.

Keywords: *belief about mathematics, options numbers, maximum reliability*