

ABSTRACT

Putri Khairunnisa. The Impact of Accelerated Learning Method with SAVI (Somatic, Auditory, Visual and Intellectual) Approach to the Ability of Students of SMP IT Ar-Rudho to Make Mathematical Connections. Bachelor Thesis. Jakarta: Mathematics Education Program, Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, 2017.

This research determined whether there was any impact of learning using Accelerated Learning method with SAVI approach to students' ability to make mathematical connections.

The research was conducted in August 2017, the first semester of academic year 2017/2018, and the research subject was VII grade students of SMP IT Ar-Rudho. The mathematical subject used in this research was integers covering fractions, powers, least common multiple (LCM) and greatest common divisor (GCD). The method of the research was quasi-experiment. Cluster random sampling was used as the sampling technique to determine the experimental class (Accelerated Learning method with SAVI approach) and controlled class (conventional method). The two selected classes were from normally distributed populations, had homogeneous variances and equal means.

The instrument used in this research consisted of 8 word problems in the form of essay, and it tested students' ability to make mathematical connections. The instrument had passed the test of content validity, construct validity, empirical validity and reliability. Calculation of reliability using Alpha Cronbach formula resulted in reliability coefficient of 0.7764 which indicated a high level of reliability.

The result of the post-test showed that the experimental and controlled classes were normally distributed and had homogeneous variances. Therefore, hypothesis testing was run by using t-test with an alpha level of .05. The test yielded $t_{value} = 1.2579$ and $t_{distribution} = 1.6880$ so $t_{value} < t_{distribution}$. Thus, the test decision was to support the null hypothesis, which means that the Accelerated Learning method with SAVI approach did not have a significant impact on students' ability to make mathematical connections compared to conventional method.

Keywords: mathematical connections, Accelerated Learning method, SAVI approach