

***THE EFFECT OF DISCOVERY LEARNING MODEL ASSISTED BY
QUIZIZZ APPLICATION ON MATHEMATICAL UNDERSTANDING
ABILITY OF ELEMENTARY SCHOOL STUDENTS***

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ABSTRACT

This study is motivated by the low mathematical understanding ability possessed by elementary school students, this can occur because learning that should be centered on students does not run as it should. The purpose of this study was to determine the description of the learning implementation process, whether there is a difference in the average mathematical understanding ability of students, whether there is an increase in students' mathematical understanding ability, how much influence the use of discovery learning model assisted by quizizz application on students' mathematical understanding ability and conventional learning model. This study uses quantitative research methods with quasi-experimental type. The research design used was nonequivalent control group design. The sample of this study were students of class IV-A as a control class and IV-B as an experimental class, each totaling 29 people, sampling in this study using purposive sampling technique. The research instrument used tests, namely the implementation of pretests and posttests in the form of multiple choice questions totaling 14 questions, as well as non-tests in the form of observation and documentation. The data analysis techniques used were normality test, homogeneity test, t test, N-gain test, and effect size test. The results of this study indicate that the average value of the pretest of the control and experimental classes has no difference, while the average value of the posttest of the experimental and control classes has an average difference. The average value of the experimental class was 82.86 and the average value of the conventional class was 77.31. It can be concluded that the use of the discovery learning model on the mathematical understanding ability of students in the cognitive domain has an influence, seen from the results of the N-gain test that has been carried out, the gain index value is 0.5187 which is included in the medium category and the N-gain interpretation reaches 51.87% including the category of increasing mathematical understanding ability quite effectively. Other data can be seen from the results of the effect size test that has been carried out, the effect size test value reaches 0.0604 and is included in the moderate effect category. From the data that has been obtained, the discovery learning model affects the mathematical understanding ability of students.

Keywords: Discovery Learning Model, mathematical understanding ability