

ABSTRACT

THE EFFECT OF PROBLEM BASED LEARNING (PBL) ASSISTED BY KAHOOT APPLICATION ON THE ABILITY OF UNDERSTANDING MATHEMATICS IN ELEMENTARY SCHOOL STUDENTS

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This research is motivated by the low mathematical understanding ability of fifth grade students, which affects the mathematics learning outcomes that have not yet reached the criteria for achieving learning objectives. Therefore, the researcher is interested in conducting a study entitled "The Effect of the Problem Based Learning (PBL) Model Assisted by the Kahoot Application on The Ability Of Understanding Mathematics In Elementary School Students." The purpose of this study is to determine the learning process, analyze the increase in students' mathematical concept understanding, and describe the effect of the Problem Based Learning (PBL) model assisted by the Kahoot application on students' Mathematical Understanding Ability. This study uses a quasi-experimental research type. The population in this study were all fifth grade students of SDN Baleendah 02. The sample of this study was class VA as the experimental class and class VB as the control class. Data collection techniques used in this study were tests, observations, and documentation. The researcher conducted data analysis by calculating the hypothesis test, effect size, and N-Gain test with the help of SPSS version 29. The results of the study showed that there was an influence between the mathematical understanding ability of students who used the Problem Based Learning (PBL) model assisted by the Kahoot Application compared to the conventional learning model. It can be seen in the effect size test, the calculation results for the two classes were 1.07, which based on the effect size index table, the value was greater than 0.8, which means that the influence of the mathematical understanding ability of students who used the Problem Based Learning (PBL) model assisted by the Kahoot Application was greater than students who used conventional learning models. And there was an increase in mathematical understanding ability by calculating the N-Gain value of 0.72 with a high increase category. So it can be concluded that the use of the Problem Based Learning model assisted by the Kahoot application can improve the mathematical understanding ability of elementary school students by around 72%.

Keyword: *Mathematical Comprehension Ability, Problem Based Learning, Kahoot, Elementary School Students.*