

**Increasing Student Mathematics Learning Outcomes Class III SD
Through The Cooperative Learning Model
Type Picture and Picture**

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ABSTRACT

This study aims to determine the increase in learning outcomes of third grade elementary school mathematics through the cooperative learning model type picture and picture. This research was conducted on third grade students at SDN 042 Gambir, Bandung City in the 2022/2023 academic year. The total population in this study was 50 students with a total of 25 students in class III-B and 25 student in class III-C. The research sample taken is class III-B as control with conventional learning and class III-C as an experimental class using cooperative learning model type picture and picture.

This research is a quasi-experimental research with a non-equivalent pretest-posttest control group design. Data collection techniques used in this study were test and observation sheets. The test consisted of pretest and posttest which was conducted in the experimental class and the control class. The test instrument used is multiple choice and description. After getting the data, the researcher analysed the data by calculating the hypothesis test with the help of the SPSS version 16.0 application.

The results of the T test obtained are 0,000. Based on the applicable provisions, the test results of $0,000 < 0,05$ can be concluded that the improvement in the learning outcomes of third grade elementary school students through the cooperative learning model type picture and picture is better than students with conventional learning. This is also supported by the results of the posttest average of students in the experimental class of 82,68 and the posttest average of 62,64 in the control class. So it can be concluded that the average learning outcomes in the experimental class using the cooperative learning type picture and picture is higher than the control class with conventional learning.

Keywords: Cooperative learning type picture and picture, learning outcomes