

ABSTRACT

SRININGSIH. Comparison of Mathematics Concept Comprehension Between Students Using Cooperative Learning Model of Numbered Heads Together (NHT) and Co-Op Co-Op Type at SMP Negeri 47 Jakarta. Thesis. Jakarta: Mathematics Education Program, Mathematics Department, Faculty of Mathematics and Natural Sciences, State University of Jakarta, 2017.

The purpose of this research is to find out empirically whether the student comprehension toward mathematic concept taught with cooperative learning model of Numbered Heads Together (NHT) type is higher than students comprehension taught by cooperative learning model Co-Op Co-Op type.

This research was conducted at SMP Negeri 47 Jakarta. The research method uses quasi experiment method (quasi research) with sampling technique using two stage sampling. Before selecting the experiment class, the researcher conducted the test of normality, homogeneity, and average similarities. Then the chosen experiment classes named experiment class I (learning process using NHT type) and experiment II class (learning process using Co-Op Co-Op type). Instruments in this study uses the test results on the subject of integers and fractions consist of six questions. Before it given to students, the test instrument has passed the test of content validation, constructs, and empiric. In addition, test instruments also tested by reliability test using Alpha Cronbach formula and obtained the reliability coefficient of 0.647 which means reliability included into high classification.

Based on research result, the average of the students' comprehension of mathematics concepts in experiment class I is 78.78 and in the experiment class II is 73.31. The result of normality test using Lilliefors test showed that scores of both experiment classes derived from normal distributed population. In the homogeneity test using Fisher test, the result found that the scores of both experimental classes had the same variants. Hypothesis testing done by using t-test obtained $t_{\text{count}} = 2.297 > t_{\text{table}} = 1.995$, so the H_0 is rejected. Thus, it can be concluded that the mathematics concept comprehension for students who learn used cooperative learning model of Numbered Heads Together (NHT) type is higher than the mathematics concept comprehension for students who learn used cooperative learning model Co-Op Co-Op type.

Keywords: Ability to Understand Mathematical Concept, Cooperative Learning Model, Numbered Heads Together (NHT) Type, Co-Op Co-Op Type