ABSTRACT

The Influence of Index Card Match Cooperative Learning Model on Students' Mathematical Reasoning Ability. 2021. Khoirotul Ummah

Keyword: Mathematical Reasoning Ability and Index Card Match

   Mathematical reasoning of ability and learning mathematics are interrelated. In solving mathematical problems, mathematical reasoning skills are needed. And vice versa, mathematical reasoning abilities can be trained by learning mathematics. The indicators used are 4 of the indicators namely, 1) drawing logical conclusions, 2) providing explanations with models, facts, properties and relationships, 3) estimating answers and solution processes, (4) developing and test conjuctures. The learning model used in this study is a cooperative learning model of the Index Card Match type. The Index Card Match type cooperative learning model is a learning model that uses card media, the cards contain both questions and answers.

   The study aims to determine the effect of the Index Card Match cooperative learning model on the mathematical reasoning abilities of seventh grade students of SMP Nasyrul Ulum Aeng Dake. The population ot this study were all seventh grade students of SMP Nasyrul Ulum Aeng Dake for the 2020/2021 academic year, totalling 39 students. The sampling technique used is Purposive Sample, by considering the mathematical reasoning ability of female students which better then to the mathematical reasoning ability of male students. The sample of this research was the students of class VII-B Famale SMP Nasyrul Ulum Aeng Dake, totaling 21 Students.

   The instrument used were Pretest and Posttest. After the data is obtained, the data tested for hypotheses using the N-Gain test and t-test of the N-Gain formula. First, testing using the N-Gain test. The test results show that KPM of class VII Students of SMP Nasyrul Ulum Aeng Dake is included in the low category, amounting to 0,0379. Second, the t-test of the N--Gain formula was carried out. The test result show the t count value is 0,712 and the t table value is 1,725.because t count is smaller than t table, so H_0 is accepted and H_a is rejected. This means that there is no effect of the Cooperative Learning Model Type Index Card Match on the mathematical reasoning ability of the seventh grade students of SMP Nasyrul Ulum Aeng Dake.