THE DIFFERENCE OF STUDENTS' MATHEMATICAL REPRESENTATION ABILITY TAUGHT USING COOPERATIVE LEARNING MODEL TGT AND NHT TYPES AT SMP NEGERI 6 MEDAN

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ABSTRACT

This research is quasi-experiment. The purpose of this research is to known whether students' mathematical representation taught using cooperative learning *Team Games Tournament (TGT) and Numbered Heads Together (NHT) types* at SMP Negeri 6 Medan A.Y. 2017/2018.

The population of this research is students of SMP N 6 Medan which consists 33 classes, whereas the sample consists of 2 classes, namely, VII-F as experimental class I consists 34 students and VII-I as experimental II consists of 34 students. Experimental class I taught using Team Games Tournament (TGT) and experimental class II taught using Numbered Heads Together. Collecting data technique of this research is mathematical representation test given in the end of learning either in experimental class I or experimental class II. The type of this test is essay test.

Before doing hypothesis, the normality and the homogeneity test should be done. The result of this test, sample was taken from normal distributed and homogeneous population. The data analysis of experimental class by using t-test with significant level $\propto = 0.05$. *It can be concluded that students' mathematical representation ability* taught using cooperative learning Team Games Tournament better than Numbered Heads Together types at SMP Negeri 6 Medan.

The research that has been done, researcher suggest that Team Games Tournament can be as consideration to teacher in enhancing Junior High School students' mathematical representation ability. Teacher intends to use Team Games Tournament, needed preparation and use time effectively in its *implementation*. *The result and instrument of this research can be used* as consideration to implement Team Games Tournament in a different class grade and subject for the future researcher.

Keyword: TGT, NHT, Representation