

**THE COMPARISON OF STUDENTS' MATHEMATICAL PROBLEM
SOLVING ABILITY TAUGHT BY COOPERATIVE LEARNING
MODEL OF NUMBERED HEADS TOGETHER AND
THINK PAIR SHARE AT SMP NEGERI 13
MEDAN ACADEMIC YEAR 2016/2017**

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ABSTRACT

The aim of this research is to know whether students' Mathematical Problem Solving Ability taught by Cooperative Learning model NHT type is higher than Cooperative Learning model TPS type in Grade IX at SMP Negeri 13 Medan. The population is all students of grade IX in SMP Negeri 13 Medan Academic Year 2016/2017. Sampling Techniques that is used in this research is random sampling. There are two samples in this research namely, Class A is IX-5 taught by NHT and Class B is IX-2 taught by TPS. Each of class consist of 32 students. Technique of analyzing data is consisted of normality, homogeneity, and hypothesis test. Based on normality and homogeneity test, the data was taken from normal distribution and homogeneous population. Hypothesis test is done by using analysis of T-test. The result of T-test show that $t_{\text{calculated}} = 2.297$ and $t_{(0.5)(62)} = 1.669$. Consequently $t_{\text{calculated}} > t_{\text{table}}$, then H_0 is rejected. So, we can conclude that students' mathematical problem solving ability taught by cooperative learning model NHT type is higher than cooperative learning model TPS type.

Keyword : problem solving, cooperative learning, NHT, TPS