

**THE DIFFERENCE OF STUDENT'S MATHEMATICAL COMMUNICATION  
ABILITY TAUGHT BY COOPERATIVE LEARNING THINK-PAIR-  
SHARE AND NUMBERED-HEADS-TOGETHER TYPES  
AT SMP NEGERI 3 KISARAN**

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**ABSTRACT**

This research was conducted at SMP Negeri 3 Kisaran academic year 2014/2015. It intended to know the difference of students' mathematical communication ability taught by cooperative learning Think-Pair-Share and Numbered-Heads-Together types.

The population of this research was all students at SMP Negeri 3 Kisaran. The sample was taken from grade VII by simple random sampling technique, classes selected were VII-1 as an experimental class I taught by cooperative learning Think-Pair-Share type and VII-3 as an experimental class II taught by cooperative learning Numbered-Heads-Together type. Each class consists of 32 students as sample of research. Research design of this study was posttest-only comparison group design with the technique of data analysis used is independent sample t-test.

Result of this study with  $\alpha = 0.05$  showed that  $t_{\text{statistic}} > t_{\text{table}}$ , namely  $2.174 > 1.6698$ . It means that the students' mathematical communication ability taught by cooperative learning Think-Pair-Share type was better than that the students' mathematical communication ability taught by cooperative learning Numbered-Heads-Together type.