**ABSTRACT**

SumpenaRohaendi. **Application of Cooperative Learning Model Type Think Pair Share for Improving Understanding of Mathematical Ability and Its Impact on Self Confidence Junior high school students**. This study aims to determine the ability of students to obtain an understanding of mathematical learning with the application of cooperative learning model think pair share a better understanding of mathematical abilities than students who received conventional math learning based on early mathematics ability (high, medium, low). Another goal is to determine the impact of self-confidence of students who received learning with the application of cooperative learning model think pair share is very high, as well as to determine the positive relationship between the ability of mathematical understanding and self confidence of students.

This research model using experimental studies.The population in this studyis the eighth grade students of SMP Negeri 1 Rancakalong as many as six classes. As a sample taken two classes, classVIII-D obtained by 32 students as the experimental class using cooperative learning model think-pair-share and class VIII-C as many as 33 students as the control classusing conventional learning.
 The instrument used for data collection is the beginning of math ability test (KAM), mathematical ability and understanding of students' self confidence questionnaire.

From the analysis of the normalized gain an understanding of mathematical ability based KAM using Kendall's W test shows, there are differences in the increase in the ability of understanding between students learning mathematical model with a conventional think-pair share. Because the average normalized gain on student learning using a model think-pair share is smaller than the control class. This shows the ability of students to obtain an understanding of mathematical learning with the application of cooperative learning model not think pair share a better understanding of mathematical abilities than students who received conventional math learning based on early mathematics ability (high, medium, low).

While the data from the students self confidence we can conclude that the impact of self-confidence of students who received learning with the application of cooperative learning model think pair share is very high. It is shown from the data of questionnaire self confidence. Based on analysis of relationship (correlation), it turns out there is a positive relationship between the ability of mathematical understanding with self-confidence of students.

Keywords: Cooperative learning type of think pair share; understanding of mathematical ability; self confidence.