

**THE DIFFERENCE OF STUDENTS' MATHEMATICAL COMMUNICATION
ABILITY TAUGHT BY COOPERATIVE LEARNING MODEL JIGSAW
AND SNOWBALL THROWING TYPES**

Maria Pangaribuan (ID 4143312019)

ABSTRACT

The aim of this study is to know whether the students' mathematical communication ability taught by cooperative learning model Jigsaw is better than cooperative learning model Snowball Throwing types on topic Quadrilateral and Triangle. The type of this research is quasi-experimental research which was conducted in SMP Negeri 3 Laguboti. The population of this research is all of students grade VII at SMP Negeri 3 Laguboti. The sampling technique was applied random sampling. The experiment class I that is chosen VII-B and the experiment class II that is chosen VII-C, each class consist of 36 students. The instrument that is used to measure the students' mathematical communication ability was post-test. The data analysis technique was t-test by using SPSS 24.0 for Windows at the level of the significance is $\alpha = 5\%$. Before doing the hypothesis test, it would be done normality and homogeneity test by using SPSS 24.0. From the result of those tests, the sample was taken from normal distributed and homogeneous variance. From the data analysis of each experimental class were obtained that the average score of post-test in experiment class I is 76.15 and the average score of post-test in experiment class II are 70.25. Then the test of the hypothesis by using Independents sample t-test which obtained Sig. (1-tailed) = 0.0015. Because of the sig. (1-tailed) $0.0015 < 0.05$ then H_0 is rejected and H_1 is accepted. So, it can be concluded that the students' mathematical communication ability is taught by Cooperative Learning Model Jigsaw type better than Snowball Throwing type. Based on the research that had been done, mathematics teachers are suggested to use cooperative learning model Jigsaw type as learning model alternative in improving students' mathematical communication ability.

Keywords: *Jigsaw, Snowball Throwing, Mathematical Communication Ability*