

## ABSTRAC

***Refvi Arini Yuana Putri. (2017). Application of Cooperative Learning Model of Cell Learning Types To Improve Mathematical Communication Skills and Self-Confidence of Junior High School Students.***

*The ability of mathematical communication and confidence of junior high school students is still relatively low. One of the learning model that can be used to improve the ability of mathematical communication and confidence of junior high school students is cooperative learning model of The Learning Cell type. The purpose of this study is to: 1) Know the improvement of students' mathematical communication skills that produce cooperative learning model of learning cell type better than students that produce conventional model; 2) Knowing the students' self-confidence that produces cooperative learning model of cell type Learning is better than students who produce conventional model. This research uses research method. The research design used was the pretest-postes group design. The population in this research is class VIII SMPNegeri 6 North Cikarang. The sample of this research is the students of class VIII-8 as the experimental class and the students of class VIII-4 as the control class. The instrument used is the test of mathematical communication ability and self-confidence questionnaire. Processing and data analysis using two Independent Sample  $t$  - Test and Mann Whitney test with Microsoft Exel software and SPSS 16.00 for windows software. The results of the research show: 1) Improvement of students' mathematical communication ability using cooperative learning model. Cell Types Learning is better than students using conventional model; 2) Students 'self-confidence using cooperative learning model of learning cell type is better than students' self confidence using conventional model. The Learning Cell can be an alternative for teachers in the implementation of learning in the classroom.*

***Keywords:*** *Mathematical Communication Skills, The Learning Cell Cooperative Learning Model, Self Confidence.*