

## ABSTRACT

***Nur Fatimah. (2018). Improving Algebraic Thinking Ability and Mathematical Disposition of Junior High School Students Through Learning Model Collaborative Problem Solving (CPS) .***

*This study aims to: 1) find out the improvement of algebraic thinking ability of students who follow Collaborative Problem Solving (CPS) learning better than students who follow regular learning 2) know the mathematical disposition of students who get the Collaborative Problem Solving (CPS) learning model better than in students who received regular learning 3) to know the correlation between algebraic thinking ability and mathematical disposition of students following Collaborative Problem Solving (CPS) learning. The method used in this research is quasi-experimental method. Subjects in this study are class VIII SMP Al Falah Bandung while the object of this study is a model of learning Collaborative Problem Solving (CPS), the ability to think algebra and mathematical disposition. The data collection instances use algebraic thinking skills and a mathematical disposition questionnaire. The collected data is then processed using SPSS 20.0 for Windows software. The data analysis technique in this research is data analysis of pre-response algebra thinking ability, post-response data analysis algebra thinking ability, gain index data analysis, and mathematical disposition questionnaire data analysis. The results of this study indicate that the improvement of students' algebraic thinking abilities that follow Collaborative Problem Solving (CPS) learning is better than the students who follow the usual learning, the mathematical disposition of students who get the Collaborative Problem Solving (CPS) learning model is better than the students who get the learning and there is a positive correlation between algebraic thinking ability and mathematical disposition of students following Collaborative Problem Solving (CPS) learning. Thus the Collaborative Problem Solving (CPS) learning model can be used as an alternative for teachers in implementing mathematics learning in the classroom.*

***Keyword: Learning Model Collaborative Problem Solving (CPS), Algebraic Thinking Ability, Mathematical Disposition, Ordinary Learning Model***