

## ABSTRACT

Siti Ropiah. (2019). **Increasing the Ability of Mathematical Understanding and Self-Regulated Learning for Junior High Students using the Problem-posing Learning Model.**

*This study aims to: (1) find out whether there is an improvement in the ability of mathematical understanding of Junior high school students who obtain a Problem-posing learning model higher than the mathematical understanding ability of Junior high school students who obtain a conventional learning model; (2) find out whether the achievement of self-regulated learning of junior high school students who obtain the Problem-posing learning model is better than the self-regulated learning of Junior high school students who obtain a conventional learning model; (3) find out whether there is a positive correlation between the ability of mathematical understanding and self-regulated learning of Junior high school students who obtain the problem-posing learning model. The method used in this study was a quasi-experimental method with group experimental research design and pretest-posttest control. The research sample was the eighth grade students of Private Junior High School in Bandung Regency, taken two classes as the experimental class and the control class. The experimental class is given treatment of the Problem-posing learning model and the control class is given the treatment of conventional learning models in this case expository learning. Based on the results of the study, it was obtained: (1) Achievement an increasing in the ability of mathematical understanding of junior high school students who obtained a higher Problem-posing learning model than students who obtained a conventional learning model. (2) Achievement of self-regulated learning of junior high school students who obtain the Problem-posing learning model is better than students who obtain conventional learning models. (3) There is a positive correlation between the ability of mathematical understanding and self-regulated learning of Junior high school students who obtain the problem-posing learning model.*

**Keywords:** *Mathematical Understanding, Problem-posing, Self-Regulated Learning*