

ABSTRACT

Rafika Dwi (2022). *Application of Problem Solving Learning to Improve Mathematical Problem Solving Ability and Self-Efficacy of Junior High School Students.*

Inappropriate learning models result in less effective learning activities and not achieving the desired learning objectives. Therefore, it is necessary to renew the use of mathematics learning models in schools, so that learning activities become more effective and run well. One alternative that can be used is the application of Problem Solving learning. This learning is centered on teaching and problem solving skills that will make students more active in thinking, communicating, searching and processing data to finally conclude. The problem solving learning step starts from understanding the problem, compiling a solution plan, implementing the plan, and checking again. The purpose of this study was to determine whether the increase in mathematical problem solving abilities of students who received problem solving learning was higher than students who received ordinary learning models; whether the self-efficacy of students who receive problem solving learning is better than students who receive ordinary learning models; whether there is a positive correlation between mathematical problem solving ability and self-efficacy of students who receive problem solving learning. The research method used is quasi-experimental. The subjects in this study were students of class VIIM VIIN SMPN 3 Katapang with the object being the mathematical problem solving ability and self-efficacy of junior high school students. Based on the results of data analysis, it was concluded that: 1) The improvement of mathematical problem solving abilities of students who received problem solving learning was higher than students who received ordinary learning models. 2) Self-efficacy of students who receive problem solving learning is better than students who receive ordinary learning models. 3) there is a positive correlation between students' mathematical problem solving abilities and self-efficacy of students who receive problem solving learning.

Keywords: *Mathematical Problem Solving Ability, Self-efficacy, Learning Problem Solving.*