

## ABSTRACT

RIDA NORMA. *Improvement of Mathematical Problem Solving Ability and Self-Regulated Learning of Junior High School Students Through PBL (Problem-Based Learning) Model Assisted by Quizizz.*

*This study aims to: 1) determine whether the mathematical problem solving ability of students who get problem-based learning model assisted by Quizizz is higher than students who get conventional learning model; 2) determine whether the self-regulated learning of students who get problem-based learning model assisted by Quizizz is better than students who get conventional learning model; 3) determine whether there is a correlation between mathematical problem solving ability and self-regulated learning of students who get the problem-based learning model assisted by Quizizz. The subjects in this study were VIII grade students of Pasundan 2 Bandung Junior High School with the research sample using 2 classes, VIII-C as the experimental class and VIII-A as the control class. The research method used in this research is quasi-experiment with non-equivalent control group design. The instruments used in this study were mathematical problem solving ability test descriptions and self-regulated learning questionnaires. The results showed that: 1) the improvement in mathematical problem solving ability of students who obtained a problem-based learning model assisted by Quizizz was higher than students who obtained a conventional learning model; 2) self-regulated learning of students who obtained a problem-based learning model assisted by Quizizz was better than students who obtained a conventional learning model; 3) there is a correlation between mathematical problem solving ability and self-regulated learning of students who obtained a problem-based learning model assisted by Quizizz.*

**Keywords:** *Mathematical Problem Solving Ability, Self-Regulated Learning, Problem-Based Learning (PBL) Model, Quizizz.*