

ABSTRACT

Naila Naswa Fazliana. ***The Use of Problem-Based Learning Model Assisted by Quizizz to Improve Mathematical Problem-Solving Ability and Self-Efficacy of Junior High School Students.***

This study aims to determine: (1) whether the mathematical problem-solving ability of students who receive the Problem-based Learning model assisted by Quizizz is better than that of students who receive conventional learning models; (2) whether the self-efficacy of students who receive the Problem-based Learning model assisted by Quizizz is better than that of students who receive conventional learning models; (3) whether there is a positive correlation between mathematical problem-solving ability and self-efficacy of students who receive the Problem-based Learning model assisted by Quizizz. This study uses a quantitative approach with a quasi-experimental design. The subjects of this study consisted of two classes: class VIII D, the experimental class that received the Problem-based Learning model assisted by Quizizz, and class VIII C, the control class that received the conventional model at SMPN 1 Parongpong. The instruments used in this study were mathematical problem-solving ability test instruments and self-efficacy questionnaires. The data analysis technique for the mathematical problem-solving ability test used the two-sample test (t-test), while the data analysis technique for the self-efficacy questionnaire used the Mann-Whitney test, which was processed using IBM SPSS Statistics 23 for Windows software. The results of the study showed that: (1) the mathematical problem-solving ability of students who received the Problem-based Learning model assisted by Quizizz was better than that of students who received conventional learning models; (2) the self-efficacy of students who received the Problem-based Learning model assisted by Quizizz was better than that of students who received conventional learning models; and (3) there is a positive correlation between mathematical problem-solving ability and the self-efficacy of students who received the Problem-based Learning model assisted by Quizizz.

Keywords: *Mathematical Problem-Solving Ability, Self-Efficacy, Problem-Based Learning Model, Quizizz*