

ABSTRACT

IMPROVING MATHEMATICAL PROBLEM SOLVING SKILLS AND SELF-CONFIDENCE OF HIGH SCHOOL STUDENTS THROUGH PROBLEM-BASED LEARNING MODEL ASSISTED BY QUIZZIZ.

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The objectives of this study were 1) to determine the improvement in the mathematical problem solving ability of students who obtained a problem-based learning model assisted by quizziz higher than students who obtained a conventional learning model, 2) to determine the self-confidence of students who obtained a problem-based learning model assisted by quizziz better than students who obtained learning with conventional learning models, 3) to determine the correlation between mathematical problem solving ability and self-confidence in students who obtained a problem-based learning model assisted by quizziz. The research method used is a mix method research method with a non-equivalent control group design. The subjects of this study were students in class XI as many as two classes with a sample of 70 students, namely 35 students from class XI-1 as the experimental class and 35 students from class XI-8 as the control class. The research instruments used were mathematical problem solving ability test and self-confidence questionnaire. Based on the results of the study, it was found that, 1) the improvement in mathematical problem solving ability of students who obtained the problem-based learning model was higher than students who obtained the conventional learning model, 2) Self-confidence of students who get a problem-based learning model assisted by quizziz is better than students who get learning with conventional learning models, 3) there is a correlation between mathematical problem solving ability and self-confidence in students who get a problem-based learning model assisted by quizziz.

Keywords: *Mathematical Problem Solving Ability, Self-Confidence, problem-based learning model assisted by quizziz.*