

## The Effectiveness of the Problem Based Learning (PBL) Model on Mathematical Problem Solving Skills in IX Grade Student of SMPN 16 Mataram in the 2024/2025 School Year

This study aims to determine the effectiveness of the Problem Based Learning model on students' Mathematical Problem-Solving Skills. This type of research is experimental research with a quantitative approach. This research was carried out in the odd semester of the 2024/2025 school year. The population in this study is all students of IX grade of SMPN 16 Mataram, with the subjects of the study being IX A as an experimental class and IX B as a control class. The research instruments consist of post-test sheets, observation sheets and interview guidelines. The statistical calculation of the results of the student problem-solving skills test was analyzed using an independent sample t-test where a value of  $t_{hitung}=2,075$  was obtained and the  $t_{tabel}$  score obtained was 2.002 so that it can be concluded that there is a difference in the average problem-solving skill of students in the experimental class and the control class. Based on the research results, there is one aspect that is not fulfilled, namely the experimental class did not reach the minimum classical completeness of 85%. So it can be concluded that the application of the PBL model is not effective on mathematical problem solving skills in IX grade student of SMPN 16 Mataram in the 2024/2025 school year.

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