

ABSTRACT

Application of Mathematical Learning Based on Realistic Mathematics Education (RME) Using Patarling Media to Student Mathematical Problem-Solving Skills: 2024. Titin Chariroh.

Keyword: *Media Patarling, Realistic Mathematics Education (RME), Student Mathematical Problem Solving Skills.*

The research is aimed at finding out the implementation of the learning model of Realistic Mathematics Education (RME) and to find out the positive influence of the application of mathematical learning based on Realistic Mathematics Education (RME) using Patarling media on the ability of students to solve mathematical problems. This research was carried out at MTs. Mahwil Ummiyah Lapa Daya in the second semester of the 2023/2024 academic year.

The method used in this research is a quantitative method with a type of research Pre-Experimental Design One-Group Pretest-posttest. The samples in this study are students of the class VIII. The instruments in this research are observation sheets and test instruments of students' ability to solve mathematical problems. Data analysis using normality tests and t-tests.

The results of this study show that the calculation of percent implementation of mathematics learning based on Realistic Mathematics Education obtained an average score of 87.50% with category very good. While the results of the analysis of student learning activity obtained an average score of 75.00% with a fairly high category. Normality test analysis results obtained pre-test and normal-distributed posttest data. As for the hypothesis test with the test-t, the t_{count} is 34,438 and t_{table} is 2,042, because t_{count} more than $t_{table(30;0,05)}$ is 34,438, then H_0 is rejected and H_a is accepted. It means that there is a positive influence from the application of mathematical learning based on Realistic Mathematics Education (RME) using Patarling media on students' ability to solve math problems