

THE EFFECT OF REALISTIC MATHEMATICS EDUCATION ON ELEMENTARY SCHOOL STUDENTS' MATHEMATICAL PROBLEM-SOLVING ABILITIES

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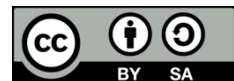
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ABSTRACT

This study aims to examine the influence and the degree of effectiveness of Realistic Mathematics Education (RME) on the mathematical problem-solving abilities of elementary school students. Employing a quantitative approach, the research utilized an experimental method with a one-group pretest–posttest design. The participants consisted of fourth-grade students at State Elementary School Telaga Tujuh Langsa. Data were collected through problem-solving tests and analyzed using paired sample t-tests and the eta-squared effect size formula. The findings indicated a significant influence of RME on students' problem-solving abilities, as evidenced by a $t_{\text{count}} > t_{\text{table}}$, which was $15.961 > 1.753$. Furthermore, the eta-squared coefficient was calculated at 0.944, suggesting a very high level of influence. These results demonstrate that RME is highly effective in enhancing the mathematical problem-solving skills of elementary school students

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