

ABSTRAK

PENGARUH PENDEKATAN *REALISTIC MATHEMATICS EDUCATION* (RME) TERHADAP KEMAMPUAN PEMECAHAN MASALAH MATEMATIS PESERTA DIDIK KELAS IV SEKOLAH DASAR

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Rendahnya kemampuan pemecahan masalah matematis peserta didik di SD Negeri 6 Metro Timur menjadi permasalahan utama dalam penelitian ini. Penelitian ini bertujuan untuk mengetahui pengaruh Pendekatan *Realistic Mathematics Education* (RME) dan pendekatan saintifik terhadap kemampuan pemecahan masalah matematis peserta didik, serta mengetahui perbedaan kemampuan pemecahan masalah matematis antara peserta didik yang memperoleh pembelajaran dengan pendekatan *Realistic Mathematics Education* (RME) dan peserta didik yang memperoleh pembelajaran dengan pendekatan saintifik. Penelitian ini menggunakan metode penelitian kuantitatif jenis *quasi experiment* dengan *non equivalent control group design*. Populasi pada penelitian adalah seluruh peserta didik kelas IV. Sampel penelitian terdiri dari peserta didik kelas IVA sebagai kelas kontrol dan kelas IVB sebagai kelas eksperimen yang dipilih melalui teknik *purposive sampling*. Teknik pengumpulan data menggunakan teknik tes dan non-tes. Data yang diperoleh dianalisis dengan uji regresi linier sederhana dan uji *Independent Sample T-tes*. Hasil uji regresi linier sederhana menunjukkan bahwa pendekatan *Realistic Mathematics Education* (RME) dan pendekatan saintifik berpengaruh terhadap kemampuan pemecahan masalah matematis peserta didik sebesar 67% dan 63%. Temuan tersebut diperkuat dengan hasil uji *Independent Sample T-tes* yang menunjukkan adanya perbedaan antara kemampuan pemecahan masalah matematis peserta didik yang memperoleh pembelajaran dengan pendekatan *Realistic Mathematics Education* (RME) dengan peserta didik yang memperoleh pembelajaran dengan pendekatan saintifik.

Kata kunci: matematika, pemecahan masalah, *realistic mathematics education*

ABSTRACT

THE EFFECT OF THE REALISTIC MATHEMATICS EDUCATION (RME) APPROACH ON THE MATHEMATICAL PROBLEM-SOLVING ABILITY OF FOURTH GRADE ELEMENTARY SCHOOL STUDENTS

By

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The low level of students' mathematical problem-solving ability at SD Negeri 6 Metro Timur constituted the main issue in this study. This research aimed to determine the effect of the Realistic Mathematics Education (RME) approach on students' mathematical problem-solving abilities, and to examine the differences in mathematical problem-solving abilities between students who received learning through the Realistic Mathematics Education (RME) approach and those who received learning through the scientific approach. This research uses a quantitative research method of the quasi experimental type with a non-equivalent control group design. The research sample consisted of students from classes IVA and IVB, which were assigned as the control and experimental groups and selected using a purposive sampling technique. Data were collected using test and non-test techniques. The data obtained were analyzed using simple linear regression and an Independent Sample t-test. The results of the simple linear regression test showed that the Realistic Mathematics Education (RME) approach and the scientific approach influenced students' mathematical problem-solving abilities by 67% and 63%. This finding is further supported by the results of the Independent Sample T-test indicated a significant difference in mathematical problem-solving abilities between students who received learning through the Realistic Mathematics Education (RME) approach and those who received learning through the scientific approach.

Key words: mathematics, problem-solving, realistic mathematics education