

THE DEVELOPMENT OF MATH MATERIAL OF MATHEMATICS BASED REALISTIC MATHEMATIC EDUCATION (RME) AT THE FOURTH GRADE OF ELEMENTARY SCHOOL

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ABSTRACT

The purpose of this research is to develop the teaching materials of mathematic based Realistic Mathematic Education (RME). The research methodology is the Research and Development with the model of Dick and Carey which includes ten stages: Analysis of the needs and the objectives of learning, analysis of learning, analyzing of learner and the environment, formulate the goals of performance, develop the instrument or test instrument, develop learning strategies, develop and select learning materials, design and implement formative evaluation, revise design and implement learning and summative evaluation. This research took place in SDN Kedaung Kaliangke 06 West Jakarta. The results showed an increase in student learning outcomes using mathematic teaching materials based on RME's. This can be seen in the average grade of 50.56 pretest and posttest average grade is 83.60 in other words, there is an increase 33.05. The successful of mathematics teaching material based RME is also supported by an active participation from the students, the creativity of teachers and link to daily activity. So it can be used as a medium of learning mathematics particularly the subject of the KPK and FPB.

Keywords: Mathematics, teaching materials, research and development, based on RME.

PENGEMBANGAN BAHAN AJAR MATEMATIKA BERBASIS *REALISTIC MATHEMATIC EDUCATION* (RME) PADA SISWA KELAS IV SEKOLAH DASAR

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ABSTRAK

Tujuan dari penelitian ini adalah mengembangkan bahan ajar matematika berbasis *Realistic Mathematic Education* (RME). Metode penelitian yang digunakan adalah metode Penelitian Pengembangan dengan model dari Dick and Carey yang meliputi sepuluh tahapan: Analisis kebutuhan dan tujuan pembelajaran, melakukan analisis pembelajaran, menganalisa pembelajar dan lingkungan, merumuskan tujuan unjuk kerja, mengembangkan instrumen atau alat tes, mengembangkan strategi pembelajaran, mengembangkan dan memilih bahan pembelajaran, merancang dan melaksanakan evaluasi formatif, melakukan revisi pembelajaran serta merancang dan melaksanakan evaluasi sumatif. Penelitian ini dilakukan di SDN Kedaung Kaliangke 06 Jakarta Barat. Hasil penelitian menunjukkan adanya peningkatan hasil belajar siswa menggunakan bahan ajar matematika berbasis RME ini. Hal ini dapat terlihat pada nilai rata-rata pretest sebesar 50,56 dan nilai rata-rata posttest sebesar 83,60 dimana terdapat kenaikan 33,05. Keberhasilan penggunaan bahan ajar matematika berbasis RME juga didukung oleh peran serta aktif dari siswa, kreatifitas guru, dan mengaitkan kegiatan sehari-hari sehingga dapat dijadikan media pembelajaran matematika khususnya pokok bahasan KPK dan FPB.

Kata Kunci: Matematika, bahan ajar, penelitian pengembangan, berbasis RME.