

ABSTRAK

PENGEMBANGAN BUKU GURU DAN BUKU SISWA KELAS V SD DENGAN
PENDEKATAN PENDIDIKAN MATEMATIKA REALISTIK INDONESIA

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Penelitian ini dilakukan karena siswa kelas V merasa kesulitan untuk memahami materi volume kubus dan balok serta minimnya buku teks pelajaran yang digunakan dan melibatkan siswa dalam proses pembelajaran. Penelitian ini bertujuan untuk (1) mendeskripsikan proses mengembangkan buku guru dan buku siswa matematika kelas V dengan pendekatan Pendidikan Matematika Realistik Indonesia dan (2) mendeskripsikan kualitas buku guru dan buku siswa matematika kelas V dengan pendekatan Pendidikan Matematika Realistik Indonesia.

Jenis penelitian ini adalah penelitian dan pengembangan atau *R and D*. Subjek dalam penelitian ini adalah siswa-siswi kelas VB SD Kanisius Demangan Baru I, yang berjumlah 26 orang. Objek dalam penelitian ini adalah buku guru dan buku siswa materi volume kubus dan balok mata pelajaran matematika. Peneliti menggunakan wawancara untuk menganalisis kebutuhan guru dan siswa, instrumen kuesioner untuk proses validasi produk, dan soal pilihan ganda untuk melihat keefektifan produk.

Hasil penelitian yang telah dilakukan menunjukkan bahwa pengembangan buku guru dan buku siswa dapat dilakukan melalui empat langkah, yaitu (1) pengumpulan data, (2) mendesain produk, (3) validasi produk, dan (4) ujicoba terbatas. Selain itu, hasil validasi mendapat nilai 4,23 untuk kualitas buku guru yang masuk kategori “sangat baik” dan nilai 4,18 untuk kualitas buku siswa yang menunjukkan kategori “baik”. Hasil ujicoba terbatas menunjukkan bahwa buku siswa dan buku guru efektif membantu siswa dalam mempelajari materi volume kubus dan balok, hal ini dapat dilihat dari hasil kenaikan nilai *pretest* dan *posttest* sebesar 44,99 poin dan nilainya lebih tinggi 13,25% dari nilai kelompok siswa tanpa buku guru dan buku siswa.

Kata kunci : pengembangan, buku guru dan buku siswa, pendekatan Pendidikan Matematika Realistik Indonesia

ABSTRACT**DEVELOPING TEACHER'S BOOK AND STUDENT'S BOOK FOR FIFTH GRADE OF ELEMENTARY SCHOOL WITH INDONESIAN REALISTIC MATHEMATICS EDUCATION APPROACH**

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The research was conducted because of student's difficulties to understand about volume of cube and beams and the lack of a textbook for the learning process. The purposes of this research are (1) to describe the development process of teacher's book and student's book for fifth grade of elementary school with Indonesian Realistic Mathematics Education Approach, and (2) to describe the quality of teacher's book and student's book for fifth grade of elementary school with Indonesian Realistic Mathematics Education Approach.

The type of this research was Research and Development (R and D). The subject of this research was 26 students of class B Kanisius Demangan Baru I Elementary School. The object of this research was the teacher's book and student's book of cube and beams. Researcher used interview to analyse student and teacher's needs, questionnaire to validation process of teacher's book and student's book, and multiple choice question to see the impact of the student's book.

The results of the research showed that the development of teacher's book and student's book can be done through four steps, there are (1) data collection, (2) product design, (3) product validation, and (4) a limited free trial. The results of the validation of teacher's book and student's book got score 4,23 for the quality of teacher's book and included of "very good" category from a mathematics lecture and a fifth grades mathematics teacher. The quality of student's book got score 4,18 and included of "good" category. Limited trial results showed that the teacher's book and student's book was effectively help students to learn about volume of cube and beam, it can be seen from the results of posttest value that increase of 44.99 points higher than pretest value and the posttest value was 13.25% higher than a group of students without teacher's book and student's book.

Keyword : *Development, Teacher's book and student's book, Indonesian Realistic Mathematics Education Approach*