ABSTRAK

PENGEMBANGAN PERANGKAT PEMBELAJARAN MATEMATIKA KELAS III MATERI LUAS, KELILING PERSEGI DAN PERSEGI PANJANG DENGAN MENGGUNAKAN MODEL PMRI.

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2020

Tujuan dari penelitian ini adalah untuk mengembangkan perangkat pembelajaran berupa Rencana Pelaksanaan Pembelajaran (RPP) yang dilengkapi dengan Lembar Kerja Siswa (LKS), bahan ajar, penilaian menggunakan model Pendidikan Matematika Realistik Indonesia (PMRI).

Subjek penelitian ini adalah Guru kelas III Sekolah Dasar, dan objek penelitian adalah Perangkat Pembelajaran berupa Rencana Pelaksanaan Pembelajaran (RPP) matematika dengan materi luas, keliling persegi dan persegi panjang, yang dilengkapi dengan (LKS), bahan ajar, penilaian dengan menggunakan model Pendidikan Matematika Realistik Indonesia (PMRI).

Teknik pengumpulan data dengan mengadakan wawancara dan observasi serta kuisioner. Wawancara dilakukan dengan Guru kelas III dan Kepala Sekolah SD N 2 Kalikotes Klaten. Observasi dilaksanakan pada saat proses pembelajaran matematika di kelas III oleh Guru kelas. Sedangkan kuisioner berupa validasi produk yang dilakukan oleh dosen ahli dan guru matematika Sekolah Dasar.

Teknik analisi data dilaksanakan secara kualitatif dan kuantitatif. Data kualitatif diperoleh dari wawancara dengan guru kelas III, dan Kepala Sekolah SD N 2 Kalikotes Klaten, serta observasi di kelas. Dari hasil wawancara dan observasi diperoleh kesimpulan guru membutuhkan Perangkat Pembelajaran yang dapat menarik perhatian dan menyenangkan siswa, serta proses pembelajaran dapat terarah, efektif, efisien. Data kuantitatif diperoleh dari hasil validasi oleh dosen ahli dan guru kelas, dalam bentuk skala nilai. Kemudian data kuantitatif dikonservasi menjadi data kualitatif.

Kesimpulan dari penelitian ini adalah perangkat pembelajaran yang berupa RPP, LKS, bahan ajar, penilaian yang telah divalidasi oleh validator untuk menguji kevalidan dan kelayakan produk. Dari hasil validasi diperoleh data kuantitatif rata –rata 3,28, selanjutnya dikonversi menjadi kualitatif munurut Widoyoko menunjukkan kriteria sangat baik. Kualitas produk Perangkat Pembelajaran berupa Rencana Pelaksanaan Pembelajaran Matematika Materi Luas, Keliling Persegi dan Persegi Panjang dengan Model PMRI di kelas III SD layak dipergunakan.

Kata Kunci: Pengembangan Perangkat Pembelajaran, matematika luas keliling persegi, persegi panjang, model PMRI.

ABSTRACT

THE DEVELOPMENT OF MATHEMATICS LEARNING MEDIA OF THE 3RD GRADE ON THE DISCUSSION OF SQUARE AND RECTANGLE AREA AND CIRCUMFERENCE WITH REALISTIC MATHEMATICS EDUCATION (RME)

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This research aims to develop the learning media as lesson plan equipped with the student worksheet, teaching materials, and assessment with Realistic Mathematics Education (RME).

The research subject was the teachers of the 3rd grade elementary school, and the object was the learning media, such as a mathematics lesson plans on the material of the area and circumference of square and rectangle, that was equipped with student worksheet, learning materials, and assessment using RME model.

The data collection technique was interview, observation, and questionnaire. The interview was done with the teachers of the 3rd grade and headmaster of State Elementary School 2 Kalikotes, Klaten. The observation was performed when the mathematics learning process was run in the 3rd grade. Meanwhile, the questionnaires in the form of product validation were conducted by the expert lecturers and mathematics teachers in elementary school.

Data analysis techniques was achieved both qualitively and quantitively. The quantitative data were gained from the interview with the teacher of the 3rd grade and headmaster of State Elementary School 2 Kalikotes, Klaten, as well as the class observation. From the interview and observation, it was found that the teachers need the learning media which are attractive and pleasing for the students. Moreover, the learning process can be directed, effective, and efficient. The quantitative data were elicited from the validation by the expert lecturers and teachers in the form of score scale. Then, the quantitative data were converted into qualitative.

The conclusion of this research is the learning media utilized within the mathematics learning process are the lesson plans, student worksheet, learning materials, and assessment that have been validated by the validators in order to test the products' validity and eligibility. From those validations, it is gained the average of the quantitative data 3.28 that then is converted into qualitative based on Widoyoko's; it shows very good criteria. Thus, the product of learning media like Mathematics lesson plans on the discussion of the area and circumference of square and rectangle with Realistic Mathematics Education (RME) in the 3rd grade elementary school is worth using.

Keywords: The development of learning media, mathematics on the area and circumference of square and rectangle, RME model.