

Kurnialloh, Asti Widya Oktavia. 2019. *Development of Mathematics Learning Devices Based on Ethnomatematics of Batik Tanjung Bumi Madura in Class 2 of UPTD in SDN Kramat 1*. Thesis. Primary School Teacher Education Study Program. Faculty of Science Education. Trunojoyo Madura University. Lecturer: Mohammad Edy Nurtamam, S.Pd. M.Sc. and Rika Wulandari, S.Pd., M.Sc.

Abstract

This study aims to determine the feasibility of validity, effectiveness, and practicality of the ethnomathematics-based learning device of Tanjung Bumi Madura batik. Learning tools that developed are RPP, teaching materials, and LKPD. This study uses a 4-D development model with steps: (1) define; (2) design; (3) development; (4) distribution. The results of the average validation of the combined learning device were 82.4% in the very usable category. The effectiveness of the learning devices is obtained from student learning outcomes which are declared classically complete in each meeting in field trials and student activities 1) the combination of the average in individual trials is 81.94% which categorized as good; 2) the combination of the average in a small group trials is 82.99% which categorized as very good; 3) the combination of the average in a large group trials is 83.43% which categorized as very good. The practicality of the product is obtained from the observation of RPP implementation 1) the combination of the average in individual trial is 75% which categorized as usable; 2) the combination of the average in a small group trials is 84% which categorized as highly usable; 3) the combination of the average in a large group trials is 91.50% which categorized can be very useable and the student response to the teaching material and LKPD developed 1) individual test is 83.33% which categorized as very usable; 2) small group trials is 91.67% which categorized as very usable; 3) large group trials is 96.19% which categorized as highly usable. From the results of those studies, the researcher can conclude that the ethnomathematics-based learning device of Tanjung Bumi Madura batik is worthy to use. The distribution phase was carried out in the UPTD of SDN Kramat 2 Bangkalan.

Keywords: *The development of Learning Devices, Ethnomathematics of Tanjung Bumi Madura Batik, Mathematics Learning in the 2nd grade*

Kurnialloh, Asti Widya Oktavia. 2019. Pengembangan Perangkat Pembelajaran Matematika Berbasis Etnomatematika Batik Tanjung Bumi Madura Di Kelas 2 UPTD SDN Kramat 1. Skripsi. Program Studi Pendidikan Guru Sekolah Dasar. Fakultas Ilmu Pendidikan. Universitas Trunojoyo Madura. Dosen Pengampu: Mohammad Edy Nurtamam, S.Pd. M.Si. dan Rika Wulandari, S.Pd., M.Si.

Abstrak

Penelitian ini bertujuan untuk mengetahui kelayakan yaitu kevalidan, keefektifan, dan kepraktisan perangkat pembelajaran berbasis etnomatematika batik Tanjung Bumi Madura. Perangkat pembelajaran yang dikembangkan adalah RPP, bahan ajar, dan LKPD. Penelitian ini menggunakan model pengembangan 4-D dengan langkah-langkah: (1) pendefinisian; (2) perancangan; (3) pengembangan; (4) penyebaran. Hasil validasi rata-rata gabungan perangkat pembelajaran sebesar 82,4% masuk dalam kategori sangat dapat digunakan, yang diuji oleh ahli materi, ahli bahasa, dan ahli desain pembelajaran. Keefektifan perangkat pembelajaran diperoleh dari hasil belajar siswa yang dinyatakan tuntas secara klasikal pada setiap pertemuan dalam uji coba lapangan dan aktivitas siswa 1) rata-rata gabungan pada uji coba perorangan 81,94% berkategori *sangat baik*; 2) rata-rata gabungan uji coba kelompok kecil 82,99% berkategori *sangat baik*; 3) rata-rata gabungan uji coba kelompok besar 83,43% berkategori *sangat baik*. Kepraktisan produk diperoleh dari observasi keterlaksanaan RPP 1) rata-rata gabungan uji coba perorangan 75% berkategori *dapat digunakan*; 2) rata-rata gabungan uji coba kelompok kecil 84% berkategori *sangat dapat digunakan*; 3) rata-rata gabungan uji coba kelompok besar 91,50% berkategori *sangat dapat digunakan* dan respon siswa terhadap bahan ajar dan LKPD yang dikembangkan 1) respon siswa uji coba perorangan 83,33% berkategori *sangat dapat digunakan*; 2) respon siswa uji coba kelompok kecil 91,67% berkategori *sangat dapat digunakan*; 3) respon siswa uji coba kelompok besar 96,19% berkategori *sangat dapat digunakan*. Dari hasil penelitian tersebut dapat disimpulkan perangkat pembelajaran berbasis etnomatematika batik Tanjung Bumi Madura layak digunakan. Tahap penyebaran dilakukan di UPTD SDN Kramat 2 Bangkalan.

Kata Kunci: Pengembangan Perangkat Pembelajaran, Etnomatematika Batik Tanjung Bumi Madura, Pembelajaran Matematika di Kelas 2