

**PENGEMBANGAN E-LKPD BERBASIS ETNOMATEMATIKA KAIN
TENUN *GRINGSING* BALI MOTIF *SANAN EMPEG* PADA
MUATAN MATEMATIKA MATERI BANGUN DATAR
KELAS IV SEKOLAH DASAR**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui rancang bangun, kevalidan, kepraktisan, dan efektivitas E-LKPD berbasis etnomatematika Kain Tenun *Gringsing* Bali motif *Sanan Empeg* muatan matematika pada materi bangun datar kelas IV Sekolah Dasar. Teknik analisis data menggunakan analisis deskriptif kualitatif, analisis statistik deskriptif kuantitatif, dan analisis statistik inferensial. Metode pengumpulan data yang digunakan adalah metode observasi, wawancara, kuesioner atau angket, dan tes. Berdasarkan hasil analisis diperoleh bahwa uji validitas menurut ahli materi pembelajaran memperoleh rata-rata sebesar 3,82. Ahli desain instruksional memperoleh rata-rata sebesar 3,91 dan ahli media pembelajaran memperoleh rata-rata sebesar 3,90 dengan kualifikasi sangat layak. Kepraktisan produk memperoleh hasil penilaian rata-rata uji coba perorangan sebesar 3,93 dan rata-rata uji coba kelompok kecil sebesar 3,91 dengan kualifikasi sangat praktis. Nilai signifikansi (2-tailed) pada uji-t berkorelasi menunjukkan angka 0,001 atau $p < 0,05$ sehingga E-LKPD berbasis etnomatematika Kain Tenun *Gringsing* Bali motif *Sanan Empeg* efektif meningkatkan hasil belajar muatan matematika materi bangun datar kelas IV Sekolah Dasar. Berdasarkan hasil tersebut dapat disimpulkan bahwa E-LKPD berbasis etnomatematika Kain Tenun *Gringsing* Bali motif *Sanan Empeg* dinyatakan valid, praktis, dan efektif dalam meningkatkan hasil belajar peserta didik, sehingga layak digunakan secara berkelanjutan pada kegiatan pembelajaran.

Kata kunci: Elektronik Lembar Kerja Peserta Didik, Etnomatematika, Kain Tenun *Gringsing*, *Sanan Empeg*, Bangun Datar

**DEVELOPMENT OF ETHNOMATEMATICS-BASED ELECTRONIC
STUDENT WORKSHEET ON BALINESE GRINGSING WOVEN FABRIC
WITH SANAN EMPEG MOTIF IN MATHEMATICS CONTENT OF FLAT
SHAPES MATERIAL FOR GRADE IV ELEMENTARY SCHOOL**

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ABSTRACT

This study aims to determine the design, validity, practicality, and effectiveness of ethnomathematics-based electronic student worksheets on Balinese Gringsing Woven Fabric with Sanan Empeg motif for mathematics content in flat shapes for fourth grade elementary school students. The data analysis techniques used were qualitative descriptive analysis, quantitative descriptive statistical analysis, and inferential statistical analysis. The data collection methods used were observation, interviews, questionnaires or surveys, and tests. Based on the analysis results, it was found that the validity test according to the learning material experts obtained an average of 3,82. Instructional design experts obtained an average of 3,91 and learning media experts obtained an average of 3,90 with a qualification of very worthy. The practicality of the product obtained an average individual trial assessment of 3,93 and small group trial average of 3,91 with a qualification of very practical. The significance value (2-tailed) in the correlated t-test showed a figure of 0,001 or $p < 0,05$ so that ethnomathematics-based electronic student worksheets on Balinese Gringsing Woven Fabric with Sanan Empeg motif was effective in improving learning outcomes in mathematics content on flat shapes for fourth-grade elementary school students. Based on these results, it can be concluded that ethnomathematics-based electronic student worksheets on Balinese Gringsing Woven Fabric with Sanan Empeg motif is valid, practical, and effective in improving student learning outcomes, making it suitable for continuous use in learning activities.

Keywords: *Electronic Student Worksheet, Ethnomathematics, Gringsing Woven Fabric, Sanan Empeg, Flat Shapes.*