

**PENGEMBANGAN E-LKPD BERBASIS ETNOMATEMATIKA DENGAN
EKSPLORASI SOKASI BALI PADA MATERI BANGUN DATAR
KELAS IV SD NEGERI 4 PEGUYANGAN TAHUN AJARAN 2025/2026**

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ABSTRAK

Pemahaman siswa sekolah dasar terhadap materi bangun datar masih tergolong rendah karena pembelajaran cenderung berpusat pada guru dan kurang memanfaatkan media yang kontekstual dengan kehidupan siswa. Selain itu, pemanfaatan budaya lokal sebagai sumber belajar matematika masih terbatas sehingga konsep bangun datar sering dipahami secara abstrak. Penelitian ini bertujuan untuk mengetahui rancang bangun, validitas, dan efektivitas E-LKPD berbasis etnomatematika dengan eksplorasi Sokasi Bali pada materi bangun datar siswa kelas IV sekolah dasar. Penelitian ini merupakan penelitian pengembangan yang menggunakan model ADDIE yang terdiri atas tahap *analysis*, *design*, *development*, *implementation*, dan *evaluation*. Data dikumpulkan melalui observasi, wawancara, angket, dan tes hasil belajar. Instrumen penelitian meliputi lembar validasi ahli, angket respon siswa, dan tes hasil belajar. Data dianalisis menggunakan teknik deskriptif kualitatif, deskriptif kuantitatif, dan statistik inferensial. Hasil penelitian menunjukkan bahwa rancang bangun E-LKPD berbasis etnomatematika berupa media digital dengan skor 90%. Disamping itu, hasil uji validitas menunjukkan desain pembelajaran 90,63%, media pembelajaran 91,67%, materi pembelajaran 93,75%, uji perorangan 96,67%, dan uji kelompok kecil 90,56% sehingga dapat dikatakan valid. Uji efektivitas menunjukkan bahwa $t_{hitung} > t_{tabel}$ ($6,593 > 1,685$), sehingga H_0 ditolak dan H_1 diterima. Dengan demikian, terdapat perbedaan yang signifikan pada hasil belajar matematika peserta didik sebelum dan setelah menggunakan E-LKPD berbasis etnomatematika dengan eksplorasi *sokasi* Bali pada materi bangun datar. Dapat diketahui bahwa E-LKPD berbasis etnomatematika dengan eksplorasi Sokasi Bali valid dan efektif digunakan dalam pembelajaran matematika.

Kata Kunci: E-LKPD, Etnomatematika, Sokasi Bali, Bangun Datar, Sekolah Dasar.

**DEVELOPMENT OF ETHNOMATHEMATICS-BASED E-LKPD WITH THE
EXPLORATION OF BALI SOCASI ON PLANE SHAPES FOR GRADE IV
OF STATE ELEMENTARY SCHOOL 4 PEGUYANGAN 2025/2026
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ABSTRACT

Elementary school students' understanding of plane geometry material is still relatively low because learning tends to be teacher-centered and does not utilize media that is contextual to students' lives. In addition, the use of local culture as a source of mathematics learning is still limited so that the concept of plane geometry is often understood abstractly. This study aims to determine the design, validity, and effectiveness of E-LKPD based on ethnomathematics with exploration of Sokasi Bali on plane geometry material for fourth-grade elementary school students. This research is a development research using the ADDIE model consisting of the stages of analysis, design, development, implementation, and evaluation. Data were collected through observation, interviews, questionnaires, and learning outcome tests. The research instruments included expert validation sheets, student response questionnaires, and learning outcome tests. Data were analyzed using qualitative descriptive techniques, quantitative descriptive techniques, and inferential statistics. The results showed that the design of E-LKPD based on ethnomathematics in the form of digital media with a score of 90%. In addition, the validity test results show that the learning design is 90.63%, learning media is 91.67%, learning materials are 93.75%, individual tests are 96.67%, and small group tests are 90.56% so it can be said to be valid. The effectiveness test shows that $t_{\text{count}} > t_{\text{table}}$ ($6.593 > 1.685$), so H_0 is rejected and H_1 is accepted. Thus, there is a significant difference in students' mathematics learning outcomes before and after using E-LKPD based on ethnomathematics with Balinese Sokasi exploration on flat shape material. It can be seen that E-LKPD based on ethnomathematics with Balinese Sokasi exploration meets the valid and effective criteria for use in mathematics learning.

Keywords: *E-LKPD, Ethnomathematics, Balinese Sokasi, Plane Geometry, Elementary School*