

ABSTRAK

PENGEMBANGAN E-LKPD BERBASIS ETNOMATEMATIKA PADA MATERI BANGUN DATAR UNTUK MENINGKATKAN *CRITICAL THINKING* PESERTA DIDIK KELAS V SEKOLAH DASAR

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Penelitian ini merupakan penelitian pengembangan (*research and development*) yang bertujuan untuk mengembangkan bahan ajar berupa E-LKPD berbasis etnomatematika yang valid, praktis, dan efektif untuk meningkatkan *critical thinking* peserta didik sekolah dasar. Desain penelitian ini mengacu pada model Ploomp (*Preliminary Research, Development or Prototyping Phase and Assesment Phase*). Penelitian ini dilakukan di SDN 1 Tanjung Sari Kecamatan Natar kelas V semester genap pada tahun ajaran 2024/2025. Teknik pengumpulan data dalam penelitian ini meliputi wawancara, angket kuesioner, dan tes kemampuan *critical thinking*. Berdasarkan analisis data dari validasi ahli materi diperoleh indeks kevalidan sebesar 85,16%, ahli media sebesar 90,99% dan ahli bahasa 89,33% dengan kategori sangat valid, serta analisis data dari respon pendidik dan peserta didik tentang kepraktisan E-LKPD berbasis etnomatematika diperoleh indeks kepraktisan sebesar 93% dan 89% dengan kategori sangat praktis. Analisis data dilakukan menggunakan uji *independent samples t test* yang menghasilkan nilai signifikansi sebesar 0,000 atau ($\text{sig} < 0,05$) pada variabel *critical thinking*. Hal ini menunjukkan bahwa H_0 ditolak dan H_1 diterima. Selain itu, hasil uji *effect size* menunjukkan nilai sebesar 1,6 yang termasuk dalam kategori efek yang kuat dan *N-gain* score sebesar 0,7 yang termasuk dalam kategori tinggi. Berdasarkan temuan dan hasil analisis data disimpulkan bahwa E-LKPD berbasis etnomatematika memenuhi kriteria valid, praktis, dan efektif untuk meningkatkan kemampuan *critical thinking* peserta didik.

Kata kunci: E-LKPD, etnomatematika, bangun datar, *critical thinking*, sekolah dasar.

ABSTRACT

DEVELOPMENT OF ETHNOMATHEMATICS-BASED E-LKPD ON FLAT SHAPES MATERIAL TO IMPROVE CRITICAL THINKING OF FIFTH GRADE ELEMENTARY SCHOOL STUDENTS

By

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This study is a research and development (R&D) project aimed at developing ethnomathematics-based E-worksheets (E-LKPD) that are valid, practical, and effective in enhancing the critical thinking of elementary school students. The research design refers to the Ploomp model, which includes Preliminary Research, Development or Prototyping Phase and Assesment Phase. The study was conducted at SDN 1 Tanjung Sari, Natar District, with fifth-grade students during the second semester of the 2024/2025 academic year. Data collection techniques included interviews, questionnaires, and critical thinking tests. Based on expert validation data analysis, the validity indices were 85.16% for content, 90.99% for media, and 89.33% for language, all categorized as highly valid. In addition, the analysis of teacher and student responses regarding the practicality of the ethnomathematics-based E-LKPD showed practicality indices of 93% and 89%, respectively, indicating a very practical category. Data analysis was conducted using an independent samples t-test, which resulted in a significance value of 0.000 ($\text{sig} < 0.05$) for the critical thinking variable. This indicates that the null hypothesis (H_0) is rejected and the alternative hypothesis (H_1) is accepted. Furthermore, the effect size test showed a value of 1.6, categorized as a strong effect, and the N-gain score was 0.7, classified as high. Based on the findings and data analysis, it is concluded that the ethnomathematics-based E-LKPD meets the criteria of being valid, practical, and effective in enhancing students' critical thinking skills.

Keywords: E-LKPD, ethnomathematics, plane figures, critical thinking, elementary school.