

ABSTRAK

PENGEMBANGAN LKPD BERBASIS MODEL RME DENGAN PENDEKATAN SAINTIFIK UNTUK MENINGKATKAN KEMAMPUAN KOMUNIKASI MATEMATIS

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Penelitian ini merupakan jenis *Research and Development* (R&D) yang bertujuan untuk mengembangkan LKPD berbasis Model *Realistic Mathematics Education* (RME) dengan pendekatan saintifik yang valid, praktis dan efektif dalam meningkatkan kemampuan komunikasi matematis peserta didik. Penelitian ini didasari oleh rendahnya kemampuan komunikasi matematis peserta didik. Pengembangan dilakukan dengan menggunakan model ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Penelitian ini dilakukan di UPT SMP Negeri 1 Pardasuka pada semester ganjil tahun pelajaran 2025/2026. Instrumen penelitian menggunakan lembar validasi ahli materi, ahli media dan ahli bahasa, angket respon peserta didik dan guru, serta soal tes kemampuan komunikasi matematis. Hasil penelitian menunjukkan bahwa LKPD tergolong valid dengan rata-rata skor validasi materi sebesar 0,88, validasi ahli media sebesar 0,90 dan validasi ahli bahasa sebesar 0,87. LKPD juga dinyatakan praktis berdasarkan rata-rata tanggapan peserta didik sebesar 0,89 dan guru sebesar 0,89. Berdasarkan hasil analisis keefektifan, menunjukkan bahwa kemampuan komunikasi matematis peserta didik yang menggunakan LKPD berbasis model RME dengan pendekatan saintifik lebih tinggi dibandingkan dengan yang tidak menggunakan LKPD. Dengan demikian, LKPD berbasis model RME dengan pendekatan saintifik memenuhi kriteria valid, praktis dan efektif untuk meningkatkan kemampuan komunikasi matematis peserta didik.

Kata Kunci : LKPD, *Realistic Mathematics Education* (RME), Pendekatan Saintifik, Komunikasi Matematis.

ABSTRACT

DEVELOPMENT OF LKPD BASED ON THE RME MODEL WITH A SCIENTIFIC APPROACH TO IMPROVE MATHEMATICAL COMMUNICATION SKILLS

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This research is a type of Research and Development (R&D) that aims to develop LKPD based on the Realistic Mathematics Education (RME) model with a scientific approach that is valid, practical and effective in improving students' mathematical communication skills. This research is based on the low mathematical communication skills of students. The development was carried out using the ADDIE model (Analysis, Design, Development, Implementation, Evaluation). This research was conducted at the UPT SMP Negeri 1 Pardasuka in the odd semester of the 2025/2026 academic year. The research instruments used were material expert, media expert and language expert validation sheets, student and teacher response questionnaires, and mathematical communication skills test questions. The results showed that the LKPD was valid with an average material validation score of 0.88, media expert validation of 0.90, and language expert validation of 0.87. The LKPD was also deemed practical based on the average response of 0.89 from students and 0.89 from teachers. Based on the effectiveness analysis results, it shows that the mathematical communication skills of students who use RME-based LKPD with a scientific approach are higher than those who do not use LKPD. Thus, RME-based LKPD with a scientific approach meets the criteria of being valid, practical, and effective in improving students' mathematical communication skills.

Keywords: LKPD, *Realistic Mathematics Education* (RME), Scientific Approach, Mathematical Communication.