

## ABSTRAK

Oktavera, Cherryn. 2023. Pengembangan E-LKPD Berbasis *Problem Based Learning* (PBL) untuk Melatih Kemampuan Pemecahan Masalah pada Materi Bangun Datar Kelas VII SMP. Skripsi. Program Studi Pendidikan Matematika, Fakultas Keguruan dan Ilmu Pendidikan. Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Dra. Linda Rosmery Tambunan, M.Si. Pembimbing II: Assit. Prof. Susanti, S.Pd., M.Pd.

**Kata Kunci:** E-LKPD, *Problem Based Learning* (PBL), Kemampuan Pemecahan Masalah, Bangun Datar

Tujuan dari penelitian ini adalah menghasilkan E-LKPD berbasis PBL yang valid, praktis dan efektif untuk melatih kemampuan pemecahan masalah matematika pada materi bangun datar kelas VII SMP. Metode penelitian dalam penelitian adalah *Research and Development* (R&D) model pengembangan 4D. Subjek penelitian adalah 25 siswa kelas VII.2 SMP Negeri 6 Tanjungpinang. Instrumen pengumpulan datanya adalah angket validasi, angket uji coba produk, dan tes kemampuan pemecahan masalah. Analisis data menggunakan statistik deskriptif yang dijelaskan menggunakan angka dan uraian kalimat. Hasil validasi diperoleh informasi kelayakan E-LKPD yaitu penilaian ahli materi sebesar 84% dengan kategori valid, ahli media sebesar 87% dengan kategori valid, dan penilaian bahasa sebesar 89% dengan kategori valid. Hasil uji praktikalitas atau uji coba produk didapatkan respon guru sebesar 96,40% dengan kriteria sangat praktis dan peserta didik 84,50% dengan kriteria praktis. Hasil uji efektivitas *N-gain* memperoleh skor 0,71 dengan kategori peningkatan tinggi. Berdasarkan indikator pemecahan masalah, kemampuan pemecahan masalah peserta didik mengalami peningkatan.

## ABSTRACT

Oktavera, Cherryn. 2023. Development of E-LKPD Based on Problem Based Learning (PBL) to Train Problem Solving Ability on Plane Figure Material in Grade VII Junior High School. Thesis. Mathematics Education Study Program, Faculty of Teacher Training and Education. Raja Ali Haji Maritime University. First Advisor : Assist. Prof. Dra. Linda Rosmery Tambunan, M.Si. Second Advisor: Assit. Prof. Susanti, S.Pd., M.Pd.

**Keywords: E-LKPD, Problem Based Learning (PBL), Problem Solving Ability, Plane Figure**

The purpose of this research is to produce a valid, practical and effective PBL-based E-LKPD to train mathematical problem solving skills on flat building material in grade VII junior high school. The research method in the study is Research and Development (R&D) 4D development model. The research subjects were 25 students of class VII.2 SMP Negeri 6 Tanjungpinang. The data collection instruments were validation questionnaire, product trial questionnaire, and problem solving ability test. Data analysis used descriptive statistics which were explained using numbers and sentence descriptions. The validation results obtained information on the feasibility of E-LKPD, namely material expert assessment of 84% with a valid category, media expert of 87% with a valid category, and language assessment of 89% with a valid category. The results of the practicality test or product trial obtained a teacher response of 96.40% with a very practical criteria and students 84.50% with practical criteria. The N-gain effectiveness test results obtained a score of 0.71 with a high improvement category. Based on problem solving indicators, students' problem solving skills have increased.