

## ABSTRAK

Fitria Dwi Listiana Wati. 2025. Pengembangan Bank Soal Berbasis Problem Based Learning (PBL) untuk Meningkatkan Kemampuan Pemecahan Masalah Operasi Hitung Siswa Kelas IV SD. Skripsi. Program Studi Pendidikan Guru Sekolah Dasar, FKIP, Universitas PGRI Madiun. (I) Dr. Fida Rahmantika Hadi, M.Pd., (II) Dr. Raras Setyo Retno, M.Pd.

Penelitian ini bertujuan untuk menghasilkan produk berupa Bank Soal matematika berbasis Problem Based Learning pada materi Operasi Hitung Bilangan Cacah yang mampu digunakan sebagai penunjang bahan ajar pengganti LKS dan juga mampu meningkatkan kemampuan daya pikir peserta didik. Penelitian ini menggunakan *Research and Development (R&D)*. Model pengembangan yang digunakan dalam penelitian adalah ADDIE (*analyze, design, development, implementation dan evaluate*). Penelitian ini dilaksanakan di SDN Majasem 4 kelas IV dengan jumlah 6peserta didik. Teknik pengumpulan data pada penelitian ini dilakukan dengan angket, observasi, wawancara dan tes hasil belajar. Teknik analisis data menggunakan analisis dari segi kelayakan modul ajar yang memenuhi kriteria valid, praktis dan efektif. Hasil penelitian menunjukkan bahwa Bank Soal matematika berbasis Problem Based Learning pada materi Operasi Hitung memenuhi kriteria valid, praktis dan efektif. Penilaian yang dilakukan oleh 3 ahli yaitu Dosen PGSD ysebagai ahli media, ahli materi, dan validasi angket respon serta validasi soal pretetst dan posttest. Ahli media dan ahli materi memberikan presentase kevalidan sebesar 76,4% menunjukkan bahwa bank soal matematika yang dikembangkan memenuhi kriteria valid dapat digunakan dalam proses pembelajaran. Berdasarkan hasil penilaian kepraktisan dari angket respon peserta didik diperoleh persentase kepraktisan sebesar 85% dengan kriteria sangat praktis, yang berarti bahwa bank soal matematika mudah digunakan dan diterapkan dalam penggunaannya. Bank Soal matematika memenuhi kriteria efektif berdasarkan hasil tes hasil belajar/asesmen sumatif sebanya k6 peserta didik memperoleh persentase 86,38% dengan kriteria sangat efektif.

Kata Kunci: Bank Soal; *Problem Based Learning*; Operasi Hitung Bilangan Cacah; Meningkatkan Kemampuan Peserta Didik; Kelas IV SD

## **ABSTRACT**

Fitria Dwi Listiana Wati. 2025. Development of a Problem-Based Learning (PBL) Question Bank to Improve Problem-Solving Skills in Arithmetic Operations for Fourth Grade Elementary School Students. Thesis. Elementary School Teacher Education Study Program, FKIP, PGRI University of Madiun. (I) Dr. Fida Rahmantika Hadi, M.Pd., (II) Dr. Raras Setyo Retno, M.Pd.

This study aims to produce a product in the form of a mathematics Question Bank based on Problem Based Learning on the material of Whole Number Arithmetic Operations that can be used as a teaching aid to replace LKS and also enhance students' thinking skills. This research uses Research and Development (R&D). The development model used in this study is ADDIE (analyze, design, development, implementation, and evaluation). This study was conducted at SDN Majasem 4, grade IV, with a total of 6 students. Data collection techniques in this study were carried out through questionnaires, observation, interviews, and learning outcome tests. The data analysis technique used an analysis in terms of the feasibility of the teaching module that meets valid, practical, and effective criteria. The results of the study showed that the mathematics Question Bank based on Problem Based Learning on Arithmetic Operations met the criteria of validity, practicality, and effectiveness. Media experts and content experts provided a validity percentage of 76.4%, indicating that the developed mathematics question bank meets the valid criteria and can be used in the learning process. Based on the practicality assessment results from the student response questionnaire, a practicality percentage of 85% was obtained with very practical criteria, meaning that the mathematics question bank is easy to use and apply. The mathematics question bank meets the effective criteria based on the results of learning outcomes/summative assessments, with 86.38% of students achieving very effective criteria.

**Keywords:** Question Bank; Problem Based Learning; Whole Number Operations; Improving Student Ability; Grade IV Elementary School