

ABSTRAK

Sebrina Br Saragih, NIM 4153311036 (2022). Pengembangan LKPD Berbasis PBL (*Problem Based Learning*) Untuk Meningkatkan Kemampuan Pemecahan Masalah Matematis Siswa.

Penelitian ini bertujuan menghasilkan lembar kerja peserta didik berbasis PBL (*Problem Based Learning*) dapat meningkatkan kemampuan pemecahan masalah matematis siswa, sedangkan tujuan khusus penelitian ini adalah untuk mengetahui validitas, kepraktisan, efektivitas, peningkatan kemampuan pemecahan masalah matematis siswa serta proses jawaban siswa dalam menyelesaikan soal-soal kemampuan pemecahan masalah. Penelitian ini menggunakan model pengembangan ADDIE yang terdiri dari 5 tahap yaitu analisis (*Analysis*), perancangan (*Design*), pengembangan (*Development*), pengimplementasi (*Implementation*), dan pengevaluasian (*Evaluation*). Subjek yang digunakan dalam penelitian ini adalah siswa/I kelas VII SMP Swasta Gajah Mada Medan sebanyak 20 orang. Berdasarkan hasil analisis data pada uji coba I dan uji coba II diperoleh: 1) LKPD berbasis PBL yang dikembangkan valid dengan rata-rata total 4,26 dan validasi RPP sebesar 4,44 tergolong valid; 2) Kepraktisan LKPD berbasis PBL adalah praktis terdiri dari angket respon siswa sebesar 3,35, angket respon guru sebesar 3,4 tergolong praktis; 3) Efektivitas LKPD berbasis PBL terdiri dari ketuntasan belajar siswa secara klasikal berdasarkan hasil *pretest* uji coba I sebesar 45% dan *posttest* uji coba II sebesar 85% dimana tergolong meningkat dan besar peningkatan berdasarkan N-gain yaitu 0,45 dan tergolong dalam kriteria sedang dan ketercapaian indikator pembelajaran pada uji coba I tidak tercapai sedangkan pada uji coba II tercapai, serta kemampuan guru mengelola pembelajaran tergolong cukup baik dengan penilaian rata-rata sebesar 3,25; 4) proses jawaban siswa pada uji coba *pretest* dan uji coba *posttest* menunjukkan pencapaian indikator keterampilan pemecahan masalah matematis.

Kata kunci: *Pengembangan LKPD, Problem Based Learning, Kemampuan Pemecahan Masalah Matematis.*

ABSTRACT

Sebrina Br Saragih, NIM 4153311036 (2022). Development of PBL-Based LKPD (Problem Based Learning) To Improve Students Mathematical Problem Solving Ability.

This study aims to produce student worksheets based on PBL (Problem Based Learning) that can improve students' mathematical problem solving abilities, while the specific objectives of this study are to determine the validity, practicality, effectiveness, increase students' mathematical problem solving abilities and the student's answer process in solving problems. -About problem solving skills. This study uses the ADDIE development model which consists of 5 stages, namely analysis, design, development, implementation, and evaluation. The subjects used in this research were 20 students of class VII SMP Private Gajah Mada Medan. Based on the results of data analysis in the first and second trials, it was obtained: 1) the PBL-based LKPD developed was valid with a total average of 4.26 and the RPP validation was 4.44 classified as valid; 2) The practicality of the PBL-based LKPD consists of a student response questionnaire of 3.35, a teacher response questionnaire of 3.4 classified as practical; 3) The effectiveness of the PBL-based LKPD consists of classical student learning completeness based on the results of the first trial pretest of 45% and the second trial posttest of 85% which is classified as increasing and the increase is based on the N-gain which is 0.45 and belongs to the medium and achievement criteria. the learning indicators in the first trial were not achieved while in the second trial they were achieved, and the teacher's ability to manage learning was quite good with an average rating of 3.25; 4) The process of student answers in the pretest trial and posttest trial shows the attainment of indicators of mathematical problem solving skills.

Keywords: *LKPD Development, Problem Based Learning, Mathematical Problem Solving Ability.*