

ABSTRACT

DEVELOPMENT OF CONTEXTUAL BASED STUDENTWORKSHEET WITH LAPS-*HEURISTIC* MODEL ABILITY ORIENTED SOLUTION TO PROBLEM MATHEMATICAL

By :

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The purpose of this study was to produce a contextual-based Student Worksheet (LKPD) which was developed with the Logan Avenue Problem Solving (LAPS)–*Heuristic* model oriented to students' mathematical problem solving abilities that were valid, practical, and effective. The type of research carried out is *Research and Development* using a research model according to Borg and Gall with a one group pretest posttest design. Data analysis techniques include interviews, questionnaires, observations and tests. The results of the analysis show that first, the contextual-based LKPD development design with the LAPS–*Heuristic* model is oriented towards mathematical problem solving abilities and has valid and practical criteria. Second, the average gain of students' mathematical problem solving abilities using contextual-based worksheets with the LAPS–*Heuristic* test model (N-gain) ≥ 0.71 and the t test obtained is $5.328 > 2.160$, so that contextual-based worksheets with the LAPS–*Heuristic* model are effective in improving students' mathematical problem solving abilities.

Key words : LAPS-*Heuristic*, Contextual, problem solving abilities

ABSTRAK

PENGEMBANGAN LEMBAR KERJA PESERTA DIDIK BERBASIS KONTEKSTUAL DENGAN MODEL LAPS-*HEURISTIC* BERORIENTASI PADA KEMAMPUAN PEMECAHAN MASALAH MATEMATIS

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Tujuan penelitian ini adalah untuk menghasilkan Lembar Kerja Peserta Didik (LKPD) berbasis kontekstual yang dikembangkan dengan model *Logan Avenue Problem Solving* (LAPS)–*Heuristic* berorientasi pada kemampuan pemecahan masalah matematis peserta didik yang valid, praktis, dan efektif. Jenis penelitian yang dilakukan adalah *Research and Development* dengan menggunakan model penelitian menurut Borg dan Gall dengan desain *one grup pretest posttes*. Teknik analisis data diantaranya wawancara, angket, observasi dan tes. Hasil analisis menunjukkan bahwa pertama, desain pengembangan LKPD berbasis kontekstual dengan model LAPS–*Heuristic* berorientasi pada kemampuan pemecahan masalah matematis memiliki kriteria valid dan praktis. Kedua, rata-rata *gain* kemampuan pemecahan masalah matematis siswa menggunakan LKPD berbasis kontekstual dengan model LAPS–*Heuristic* uji (N-gain) $\geq 0,71$ dan uji t diperoleh $5,328 > 2,160$, sehingga LKPD berbasis kontekstual dengan model LAPS–*Heuristic* efektif dalam meningkatkan kemampuan pemecahan masalah matematis siswa.

Kata kunci: LAPS-*Heuristic*, Kontekstual, kemampuan pemecahan masalah