

ABSTRACT

DEVELOPMENT OF THE STUDENT'S WORKSHEET BASED ON PROBLEM SOLVING TO ABILITY OF STUDENT'S MATHEMATICAL COMMUNICATION ABILITY

By

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This research was aimed to produce a spreadsheet of Problem Solving-based learners who meet the valid, practical and effective criteria to improve the mathematical communication skills of learners. Development and research stage is preliminary study, planning, development of LKPD, LKPD validation, and field test. The subjects of this study are students VIIIKK class MTS Negeri 1 Bandar Lampung Lesson 2017. The research design used is one group pretest-posttest design. Research data obtained through questionnaire, and test of mathematical communication ability. Based on the results of test kevalidan by media experts, materials and test the practicality by students and teachers and test the effectiveness of the results of mathematical communication skills, LKPD based Problem Solving classified everything very well. The results of the validity, validity, and effectiveness of the data analysis indicate that LKPD based Problem Solving is valid, practical, effective, and the resulting gain index is categorized as high. It is concluded that LKPD based Problem Solving is valid, practical, effective to improve students' mathematical communication ability.

Keywords: *Mathematical communication, student's worksheet, Problem Solving.*

ABSTRAK

PENGEMBANGKAN LKPD BERBASIS *PROBLEM SOLVING* UNTUK MENINGKATKAN KEMAMPUAN KOMUNIKASI MATEMATIS

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Penelitian ini bertujuan untuk menghasilkan lembar kerja peserta didik berbasis *Problem Solving* yang memenuhi kriteria valid, praktis dan efektif untuk meningkatkan kemampuan komunikasi matematis peserta didik. Tahap Pengembangan dan penelitian ini yaitu studi pendahuluan, perencanaan, pengembangan LKPD, validasi LKPD, dan uji lapangan. Subjek penelitian ini adalah peserta didik kelas VIIKK MTS Negeri 1 Bandar Lampung sebanyak 7 kelas Tahun Pelajaran 2017/2018. Desain penelitian yang digunakan adalah *one group pretest-posttest design*. Data penelitian diperoleh melalui angket, dan tes kemampuan komunikasi matematis. Berdasarkan hasil uji kevalidan oleh ahli media dan materi; uji kepraktisan oleh siswa dan guru; serta uji efektifitas dari hasil kemampuan komunikasi matematis, LKPD berbasis *Problem Solving* tergolong semuanya sangat baik. Disimpulkan bahwa LKPD berbasis *Problem Solving* valid, praktis, efektif untuk meningkatkan kemampuan komunikasi matematis peserta didik.

Kata kunci : LKPD, *Problem Solving*, Komunikasi Matematis.