

**THE IMPLEMENTATION OF PROBLEM-BASED LEARNING MODEL  
TO INCREASE STUDENTS' MATHEMATICAL PROBLEM SOLVING  
ABILITY AT SMP NEGERI I TANJUNG MORAWA**

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**ABSTRACT**

The purposes of this study was to know that Problem-based learning model could increase students' mathematical problem solving ability in grade 8 at SMP Negeri 1 Tanjung Morawa. The type of this research was Classroom Action Research (CAR) which was implemented in SMP Negeri I Tanjung Morawa. The subject of this research were students' of class VIII-5 of academic year 2015/2016 that consist of 38 students. The objects of this research is mathematical problem solving ability.

This study consisted of two cycles. Each cycle had two meetings. Every meeting was given student activity sheet. Students' mathematical problem solving ability was tested in the end of cycle.

After giving a treatment to students, in the first cycle, the average score of their mathematical problem solving ability was 2.35 with classical completeness 20 of 38 students (52.63%) gained score  $\geq 2.66$ . The average score of students' activities' observation sheet was 45.80% which classified as passive class category. The average score of teacher activities' observation sheet was 3.57 which classified as very good category. In the second cycle, students' average score increased become 3.04 with classical completeness 33 of 38 students (86.84%) gained score  $\geq 2.66$ . The average score of students' activities' observation sheet was 86.90% which is classified active class category in problem solving. The average score of teacher activities' observation sheet was 3.81 which is classified as very good category.

From the result of research, it can be concluded that the implementation of problem-based learning model is effective to increase students' problem solving ability. For teacher are encouraged to be able to implement problem-based learning model as an alternative in the learning process that can increase problem solving ability.