

**THE IMPLEMENTATION OF PROBLEM BASED LEARNING MODEL
WITH SCIENTIFIC APPROACH TO INCREASE MATHEMATICAL
CREATIVE THINKING ABILITY IN SMPN 27 MEDAN**

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ABSTRACT

The problem of this research is the low of students' mathematical creative thinking ability. This research aims to improve students' mathematical creative thinking ability by applying problem based learning model with scientific approach. Problem is identified based on initial observation result that consisted of preliminary test and interview with one of mathematics teacher in SMPN 27 Medan. Preliminary test is done to know creative thinking ability and references to grouping students in problem based learning that will be done next. This research is Class Action Research (CAR), which is implemented in SMPN 27 Medan. The subject in this research was the students of class VIII-8 academic year 2014/2015 that have 38 students. The objects of this research were the students' mathematical creative thinking ability and problem based learning model with scientific approach. The indicator of success is there are minimum 50% of the total students that followed the test get minimum score 2.33. This research consisted of 2 cycles and both cycle consisted of two meetings. Student's mathematical creative thinking ability test conducted at the end of each cycle. The result of this research could be seen: (1) The result of student's mathematical creative thinking ability test in cycle 1, completed 5 students and not completed 33 students, classical completeness is 13.2%. (2) The result of students' mathematical creative thinking ability test in cycle 2, completed 22 students and not completed 16 students, classical completeness is 57.9%. (3) Problem based learning model with scientific approach can increase students' mathematical creative thinking ability.