ABSTRACT

LUSI LUSIYANA AMINAH. Efforts to Improve Mathematical Problem Solving Ability by Applying Thinking Aloud Pair Problem Solving Learning Technical with Subject Cube and Block in Class VIII-5 SMP Negeri 27 Jakarta. **Skripsi**. Jakarta: Mathematics Education, Faculty of Mathematics and Natural Sciences, State University of Jakarta, 2016.

Based on observations and the result of preliminary test conducted mathematical problem solving abilities in class VIII-5 SMP Negeri 27 Jakarta showed the ability of mathematical problem solving is below category. So, the ability should be enhanced. Implementation of Thinking Aloud Pair Problem Solving (TAPPS) can be used as an alternative learning in the classroom. This research aims to improve students' mathematical problem solving abilities through the implementation of TAPPS in class VIII-5 SMP Negeri 27 Jakarta.

This classroom action research is held in three cycles, each cycle is consisting of four stages: planning, implementation, observation, and reflection. Each cycle is held by applying TAPPS. Students are given a final test in each cycle to measure student's problem solving abilities. The research is held on March to April 2016 in VIII-5 SMP Negeri 27 Jakarta with 36 students.

The results showed learning mathematics through the implementation of TAPPS can improve student's mathematical problem solving abilities. It is shown by increasing of the average score of mathematical problem solving ability test. The average score of the final test of students in class VIII-5 on pre cycle is 39.97, first cycle increase to 67.71, second cycle increase to 79.98 and third cycle increase to 87.27. The number of students who score of mathematical problem solving ability reaching out or exceeding the KKM also increased. Pre cycle tells there is a student (2.78%) that reaching out the KKM, first cycle increase to 13 students (36.11%), second cycle increase to 25 students (69.44%), and third cycle increase to 31 students (86.11%).

Keywords: Mathematical Problem Solving, TAPPS.