

ABSTRACT

Firda Nurul Aini. Efforts to Improve Mathematical Connection Ability Use REACT (Relating, Experiencing, Applying, Cooperating, Transferring) Strategy Subject Plane in Class VII-2 SMP Negeri 47 Jakarta. **Skripsi.** Jakarta: Mathematics Education, Faculty of Mathematics and Natural Sciences, State University of Jakarta, 2016.

This research aims to improve students' mathematical connection abilities through the implementation of REACT Strategy in class VII-2 SMP Negeri 47 Jakarta. Based on observations and the results of preliminary tests conducted mathematical connection abilities in class VII-2 SMP Negeri 47 Jakarta, showed the ability of mathematical connection at the low category, so the ability should be enhanced. Implementation of REACT Strategy can be used as an alternative learning in the classroom. Learning use REACT Strategy consists of five activities, namely: Relating, Experiencing, Applying, Cooperating, Transferring. The fifth of these activities if applied in teaching mathematics can improve the ability of mathematical connection.

This classroom action research held in three cycles, each cycle consisting of four stages: planning, implementation, observation, and reflection. Each cycle held learning by applying REACT Strategy. Students are given a final test cycle to measure students' mathematical connection abilities. The research held from may to June 2016 in class VII-2 SMP Negeri 47 Jakarta school year 2015/2016, with 36 students.

The results showed learning mathematics through the implementation of REACT Strategy can improve students' mathematical connection abilities. It is shown by an increase in the average score of mathematical connection ability test. The average score of the final test of students in class VII-2 on pre cycle is 38.5, first cycle increased to 65.14, second cycle increased to 69.44 and third cycle increased to 75.42. The number of students who score of mathematical connection ability reaching out or exceeding the KKM also increased. Pre cycle there are three students (8.33%), first cycle increased to 16 students (44.44%), second cycle increased to 24 students (66.67%), and third cycle increased to 29 students (80.5%).

Keywords: Mathematical Connection Ability, REACT Strategy.