

## ABSTRACT

**EVI FITRIASTUTI.** Efforts to improve mathematical reasoning ability using the model cooperative learning *Think Pair Share* (TPS) on the subject of the rectangular in class VII-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 results of preliminary tests conducted mathematical reasoning abilities in class VII-5 SMP Negeri 27 Jakarta, showed the ability of mathematical reasoning at the low category, so the ability should be enhanced. Implementation of model cooperative learning *Think Pair Share* (TPS) can be used as an alternative learning in the classroom. Learning with TPS approach consists of three stages: think, pair, and share. The third principle if applied in teaching mathematics can improve the ability of mathematical reasoning. This research aims to improve students' mathematical reasoning abilities using the model cooperative learning TPS on the subject of the rectangular in class VII-5 SMP Negeri 27 Jakarta .

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 model cooperative learning TPS. Students are given a final test cycle to measure students' mathematical reasoning abilities. The research held from March to Mei 2016 in VII-5 SMP Negeri 27 Jakarta, with 36 students.

The results showed learning mathematics model cooperative learning TPS can improve students' mathematical reasoning abilities. It is shown by an increase in the average score of mathematical reasoning ability test. The average score of the final test of students in class VII-5 on pre cycle is 58.77, first cycle increased to 60 second cycle increased to 73.60 and third cycle increased to 81.25. The number of students who score of mathematical reasoning ability reaching out or exceeding the KKM also increased. Pre cycle there are 3 students (8.33%), first cycle increased to 8 students (22.22%), second cycle increased to 23 students (63.89%), and third cycle increased to 31 students (86.11%).

**Keywords: Mathematical Reasoning Ability, Model Cooperative Learning TPS.**