

## ABSTRACT

**GESTY SETIAWATY.** Efforts to improve mathematical communication ability using math-talk learning community (MTLC) model of the students in 8th grade at 47 Jakarta Junior High School.

This research is based on the poor level of *mathematical* communication ability of the students in 8th grade at 47 Jakarta Junior High School. One of the alternative to resolve the learning problem that occurs is using Math-Talk Learning Community (MTLC) model, which is a model that applied four stages of learning: questioning, explaining mathematical thinking, source of mathematical ideas, responsibility for learning, with student sheet Activities (LAS) as an instrument to help students understand the setting of the presented problem by regarding the main aspects of this research, which is: (1) state the mathematical ideas through verbal, written, and visually depict; (2) interpret and evaluate mathematical ideas both verbal and writing; (3) using terms, mathematical symbols, and its structures to modeling the situations or mathematical problems; expected to increasing math communication skills in 8<sup>th</sup> grade students at 47 Jakarta Junior High School.

This study is using a qualitative approach with classroom action research (action research) type, which consists of four stages that build up the planning cycle, implementation, observation, and reflection. The research was held at VIII.1 class in the second semester of the 2015/2016 academic year, at 47 Jakarta junior high school, with 36 number of students.

Based on the research that has been done, the students mathematical communication skills increased significantly. The average score of the final test on pre-cycle is 49.3. Test score was 62.44 in the first cycle, the second cycle is 86.9 and the third cycle was 94.19. The percentage of students who beyond and reach the communication skills of mathematics standard at the first cycle is 38%, in the second cycle is 83% and the third cycle is 100%. Based on the results this study concluded that: (1) Learning by using Math-Talk Learning Community model (MTLC) at VIII.1 class of 47 Jakarta junior high school can increa math communication those 8<sup>th</sup> grade students.

**Key word : Mathematical Communication Ability,  
Math-Talk Learning Community (MTLC) Model**

