

ABSTRACT

NINA MARLINA. *Implementation of AIR (Auditory, Intellectually, Repetition) Learning Models to Improve Mathematical Communication Ability and Self-efficacy in Junior High School Students.*

Improper use of learning models makes the learning process monotonous and affects students' mathematical communication skills. Therefore, in mathematics learning there needs to be a change in the way of learning that can improve the quality of student learning. One learning model that can develop students' mathematical communication skills is Auditory, Intellectually, Repetition (AIR). The purpose of this study is to find out: the improvement of mathematical communication skills of students who obtain air learning models (Auditory, Intellectually, Repetition) is higher than students who obtain ordinary learning; Self-efficacy of students who obtain air learning models (Auditory, Intellectually, Repetition) is better than students who get regular learning; correlation between students' mathematical communication skills and self-efficacy of students using AIR learning models (Auditory, Intellectually, Repetition). The research conducted in this study uses a kuantitaif research approach. The research design used was an experiment of pretest and posttest control groups involving two groups. The population in this study was a grade 7 student at Darun Nasya Lembang Junior High School. The samples to be taken are two classes, namely class VII A as experimental class and VII B as control class with random or random grouping. Based on data analysis can be concluded as follows. 1) Improved mathematical communication skills of students who obtain air learning models (Auditory, Intellectually, Repetition) are higher than students who obtain regular learning models. 2) Self-efficacy of students who obtain air learning models (Auditory, Intellectually, Repetition) is better than students who obtain ordinary learning models. 3) There is a correlation between the mathematical communication ability of students and self-efficacy of students who obtain the AIR model (Auditory, Intellectually, Repetition).

Keywords: *Mathematical Communication Abilities, Self-efficacy, and Learning Model Auditory, Intellectually, Repetition (AIR)*