ABSTRACT

OKTAVIANA RAHMAWATI. *The Implementation of Learning Model of Discovery Learning to Increase the Ability Students Junior High School Mathematical Critical Thinking and Self-Confidence.*

The relatively low mathematical value of one of the causes is the low ability of mathematical critical thinking to students. Lack of students' critical thinking skills can be seen from how students respond to every mathematical problem that existsTherefore, it is necessary to apply an appropriate learning model so that learning activities will be effective and students' mathematical critical thinking skills will increase. One alternative learning that is expected to improve students' critical thinking skills is the Discovery Learning learning model. This research method is quasi-experimental. The population in this study were students of SMP N 3 Parongpong with a sample of eighth grade students using existing classes. The instruments in this study were tests and self-confidence questionnaires. Tests and questionnaires are tested first. From the results of the trial questions and questionnaire statements all are in good category, therefore questions and questionnaire statements fulfill the requirements so that they are worthy of being used as research instruments. Analysis of research data using the IBM SPSS Statistics 23 for Windows program. Based on data analysis, it was concluded that: 1) Mathematical critical thinking skills of students who obtain learning with the Discovery Learning model are better than students who obtain mathematics learning with conventional learning, 2) self-confidence of students who obtained Discovery Learning learning models better than students who received conventional learning, 3) there is a correlation between self-confidence and students' critical thinking skills using the Discovery Learning learning model, 4) there is no correlation between self-confidence and students' critical thinking skills using conventional learning models.

Keywords: Critical Thinking Ability, Discovery Learning and Self-Confidence.