

ABSTRACT

Nursilviani Ulfatushiyam, **Improvement of Critical Thinking Ability and Mathematical Self-Efficacy of Junior High School Students through Guided Inquiry Learning Model.**

Learning mathematics requires students to have a variety of mathematical abilities including mathematical critical thinking ability. The ability of critical thinking and mathematical self-efficacy is indispensable in mathematics learning. But in fact the ability of critical thinking and self-efficacy mathematically still relatively low. This study aims to: (1) know the ability of mathematical critical thinking of students who obtain guided inquiry learning model higher than students who obtain conventional learning; (2) know the ability of self-efficacy students who obtain guided inquiry learning model better than students who obtained conventional learning; (3) know the effectiveness of guided inquiry learning model on students' mathematical critical thinking ability. This research uses experimental methods and the design is Pretest-Posttest Control Group Design. The population of this study is students of SMP Pasundan 4 Bandung academic year 2018/2019. The samples are students of class VIII D and VIII E that are randomly selected by class. The research instrument used is a description of the ability of mathematical critical thinking and self-efficacy scale by using Likert scale. The test and self-efficacy scale were first tested and obtained instrument suitable for research. From the results of the research analysis, obtained the conclusion: 1) The ability of mathematical critical thinking of students who get learning with guided inquiry learning model is higher than students who get conventional learning. 2) The self-efficacy of students acquiring guided inquiry learning is better than the self-efficacy of students who have received conventional learning. 3) The effectiveness of guided inquiry learning models on students' critical thinking ability is classified as high.

Keywords: Guided Inquiry, Ability of Mathematical Critical Thinking, Self-Efficacy.