

ABSTRACT

Fauziyah Nuri (2020), **“Enhance the Ability of Mathematical Communication and Self-confidence of Junior High School Students Through the REACT Learning Model (*Relating, Experiencing, Applying, Cooperating, and Transferring*)”**.

Mathematical communication abilities included in standard mathematical abilities needed by students. But students' mathematical problem solving abilities are still low. One of the reason is because in the learning process mathematics is generally too concentrated on practice questions that are procedural and mechanistic and not understanding. One alternative learning that can improve students' mathematical communication abilities and Self-confidence is REACT learning. The aims of these study are: 1) knowing the improvement of mathematical communication of students who get REACT learning better than students who get the Discovery Learning model; 2) knowing the improvement in Self-confidence of students who get REACT learning better than students who get the Discovery Learning model; 3) knowing the correlation between mathematical communication abilities and Self-confidence ability of junior high school students with the REACT learning model. The method used in this study was quasi-experimental with a quasi-experimental design. The population of this study was the 7th grade of Pasundan 3 junior high school Bandung. The study sample was randomly selected as many as two classes namely, 7A class as the experimental class and 7D as the control class in Pasundan 3 junior high school Bandung. The research instrument used consisted of a mathematical problem solving ability test instrument made in the form of a description (pretest-posttest), and a non-test instrument in the form of a Self-confidence questionnaire. Data analysis using parametric test on pretest-posttest data through SPSS Statistics 20.0 for Windows software. From the results of analysis of research data, the conclusions are obtained as follows: 1) improvement of mathematical communication abilities of students who get the REACT learning model is better than students who get the Discovery Learning model; 2) Self-confidence of students who use the REACT learning model is better than Self-confidence who get the Discovery Learning model; 3) There is a correlation between a mathematical problem solving abilities and Self-confidence of junior high school students through the REACT learning model.

Keywords: Mathematical Communication, REACT, Self-confidence.