ABSTRACT

Aghniya Siti Pathoni. Improved Ability of Mathematical Abstraction and Self-Efficacy of Junior High School Students Towards Concrete Reprsentational Abstract (CRA) Learning Model.

Ability of mathematical abstraction is needed by students in understanding mathematics. However, students' mathematical abstraction abilities are still low. One of the causes is the problem of student self-confidence (self-efficacy) is still low too. One of the learning alternatives that can improve the ability of mathematical abstraction and self-efficacy is the Concrete Reprsentational Abstract (CRA) learning model. The purpose of this research (1) To know the improvement of abstraction mathematical ability between students who get learning and concrete representational abstract model (CRA) with students who get expository learning. (2) To know the self-efficacy between students who received learning with concrete representational abstract (CRA) model and students who received conventional learning. (3) To know there is a positive correlation between the ability of mathematical abstraction and the self-efficacy of students who acquired the concrete representational abstract (CRA) model. The method used is a quasi-experimental method with pretest postes control group design. Subjects in this research were all students of class VII SMP Pasundan 2 Bandung. The sample of this reasearch was randomly selected. Based on the analysis of research data, it can be concluded that: (1) Improvement of mathematical abstraction ability between students who obtained learning with concrete representational abstract model (CRA) and students who received conventional learning. (2) Self-efficacy between students who gain learning with concrete representational abstract (CRA) models and students who gain expository learning. (3) There is a positive correlation between the abilities of mathematical abstraction and the self-efficacy of students who acquired the concrete representational abstract (CRA) model. Based on the results of the research that the application of concrete representational abstract (CRA) model can give a good influence on the ability of mathematical abstraction and self-efficacy of junior high school students.

Keywords: Concrete Reprsentational Abstract (CRA) Learning Model, Expository Learning, Mathematical Abstraction, Self-Efficacy.