ABSTRACT

Iis Nurul Azizah (2019). **Application of Comprehensive Mathematics Instruction (CMI) Learning Model to Improve the Ability of Mathematical Representation and Self-confidence of High School Students**

This study aims to: (1) To find out the increase in the ability of mathematical representation of students who obtain the Comprehensive Mathematics Instruction (CMI) learning model is higher than students who obtain the conventional learning model; (2) knowing the self-confidence of students who get the Comprehensive Mathematics Instruction (CMI) learning model better than students who get the conventional learning model; (3) knowing the effectiveness of the Comprehensive Mathematics Instruction (CMI) learning model. The method used in this study is a quasi-experimental method. The subjects in this research is level 10 student of Senior High School Pasundan 1 Bandung. For the research object, two classes were taken. Obtained class X IPS 3 as a control class that received a conventional learning model and class X IPS 4 as an experimental class that received a Comprehensive Mathematics Instruction (CMI) learning model. The instruments used in this study were in the form of questions describing tests of mathematical representation ability and self-confidence scale questionnaire. The results of the study showed that: (1) Increased mathematical representation ability of student that obtained the Comprehensive Mathematics Instruction (CMI) learning model is higher than students who obtained the conventional learning model; (2) self-confidence of students who get the Comprehensive Mathematics Instruction (CMI) learning model better than students who obtain the conventional learning model; (3) the effectiveness of the Comprehensive Mathematics Instruction (CMI) learning model has a great effect on improving mathematical representation abilities. So the learning model of Comprehensive Mathematics Instruction (CMI). can be used as an alternative for active and enjoyable mathematics learning.

Keywords: Comprehensive Mathematics Instruction (CMI), Mathematical Representation Ability, Self-confidence