

ABSTRACT

Daarina Noor El Nadhrati (2022). ***“Improving Mathematical Problem Solving Ability and Self-efficacy of Junior High School Students through the Learning Cycle 7E Model”***

Mathematical problem solving skills are needed by students because they can help solve problems or problems in mathematics. However, students' mathematical problem solving ability is still lacking and is in a low stage. Students' mathematical problem solving ability can be influenced by the Self-efficacy attitude possessed by each individual students. one of learning alternatives that can be applied in training mathematical problem solving skills is the Learning Cycle 7E model. This research aims to improve students' mathematical problem solving skills and self efficacy through the Learning Cycle 7E. The approach used in this study is a quantitative approach using a type of quasi experimental research. The research design uses a nonequivalent control group design. The population in this study was students of Public Junior High School 4 Cianjur class VIII for the 2021/2022 School Year. While the samples taken were students of class VIII G and VIII H, each class consisting of 30 people. The instruments used in this study used a description type test and a non-test in the form of an attitude scale questionnaire using the Likert Scale model. The data analysis carried out was by using parametric statistical tests assisted by using the IBM SPSS Statistic 23 application. As for the conclusion to be gained: 1) The increasing ability to solve mathematical problems of students who obtain the learning cycle 7e model is higher than those who obtain conventional learning models; 2) Self-efficacy students who obtain Learning Models Cycle 7E better than students who obtain conventional learning 3) There is a positive correlation between the ability to solve mathematical problems and Self-efficacy of students who obtain the Learning Cycle 7E model. This model Learning Cycle 7E can be made one of the alternatives for teachers to carry out learning in order to create an active, effective, and enjoyable atmosphere of study.

Key words: Learning Cycle 7E Model, Mathematical Problem Solving, Self-efficacy