

Kata kunci: *PBL, Software Cabri 3D, Kemampuan Representasi Matematis*

The Effect of Problem Based Learning Model Assisted by Cabri 3D Geometry Software on Improving Mathematical Representation Ability of Grade V Elementary School Students

ABSTRAC

This study is motivated by the low mathematical representation skills of fifth grade students of SDN 138 Gegerkalong Girang. The purpose of this study is to determine the description of learning using the Problem Based Learning model assisted by Cabri 3D Geometry Software with students who use conventional learning models, the average difference in mathematical representation skills of students using the Problem Based Learning model assisted by Cabri 3D Geometry Software with students who use conventional learning models, the increase in mathematical representation skills of students using the Problem Based Learning model assisted by Cabri 3D Geometry Software with students who use conventional learning models, and the effect of the Problem Based Learning learning model on improving the mathematical representation skills of grade V elementary school students. The research method used is quasi experiment with nonequivalent control group design. Based on the results of the study, obtained a description of the learning process using the Problem Based Learning model assisted by Cabri 3D Geometry Software and an effective learning model in accordance with the syntax. There is a difference in the average mathematical representation ability of students who use the Problem Based Learning model assisted by Cabri 3D Geometry Software with students who use conventional learning models. There is an increase in students' mathematical representation skills by using the Problem Based Learning model assisted by Cabri 3D Geometry Software of 0.6113 in the gain test including the medium category. There is an effect of the Problem Based Learning model model assisted by Cabri 3D Geometry Software of 0.964 in the effect size test with a high category.

Keywords: *PBL, Cabri 3D Software, Mathematical Representation Ability*