ABSTRACT

Clareen Meuthia Aullya. (2021). Analysis of Mathematical Representation Ability and Self Confidence of high school students through Model Problem Based Learning (PBL).

Mathematical abilities that are important in learning mathematics are mathematical representation abilities, and one of the abilities in affective aspects that are important for students to have is Self Confidence. One of the learning models that can be used for mathematical representation abilities and Self Confidence is the Problem Based Learning (PBL) model. This study has the objectives to: (1) analyze how the mathematical representation ability of high school students through the Problem Based Learning (PBL) model; (2) analyzing the self-confidence of high school students through the Problem Based Learning (PBL) model; (3) how is the relationship between mathematical representation ability and Self Confidence of high school students through the Problem Based Learning (PBL) model. The method used in this study is a qualitative research method with the type of literature study research. Sources of data used in this study in the form of primary data and secondary data. Data collection techniques in this study are Editing, Organizing and Finding. The data analysis technique used is inductive and historical. The results showed that: (1) the Problem Based Learning (PBL) model is better than the conventional learning model and can improve the mathematical representation ability of high school students; (2) the Problem Based Learning (PBL) model is better than conventional learning models and can increase the Self Confidence of high school students; (3) there is a positive relationship between the ability of mathematical representation and Self Confidence of high school students.

Key word: Ability of representation mathematics, Self Confidence, Problem Based Learning