

**THE DIFFERENCE OF PUPILS' MATHEMATICAL PROBLEM
SOLVING ABILITY TAUGHT BY PROBLEM BASED LEARNING
AND PROJECT BASED LEARNING USING AUTOGRAPH
IN GRADE VIII SMP NEGERI 2 PAGARAN
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ABSTRACT

The aim of this research is to know whether Pupils' Mathematical Problem Solving Ability taught by Problem Based Learning (PBL) using Autograph is different with Project Based Learning (PjBL) Using Autograph. The population of this research is all pupils in class VIII SMP Negeri 2 Pagaran. Sampling techniques that is used in this research is simple random sampling. There are two samples in this research those are, Class A is VIII A taught by PBL and Class B is VIII B taught by PjBL. Each of class consist of 30 pupils. Technique of analyzing data is consist of normality, homogeneity, and hypothesis test. Based on normality and homogeneity test, the data was taken from normal distribution and homogeneous population. Hypothesis test is operated by using analysis of t-test. The result of t-test show that $t_{\text{calculated}} = 3,785$ and $t_{\text{table}} = 1,6723$. Consequently $t_{\text{calculated}} > t_{\text{table}}$, then H_0 is rejected and H_a is accepted. So, we can conclude that Pupils' mathematical problem solving ability taught by Problem Based Learning model using Autograph is higher than taught by Project Based Learning using Autograph in grade VIII SMP Negeri 2 Pagaran A.Y 2017/2018.

Keywords: Mathematical Problem Solving Ability, Problem Based Learning, Project Based Learning