

## ABSTRACT

**Hardianti Ekaputri, NIM 4183312001 (2022). The Effect of Problem Based Learning Model on Students' Mathematical Literacy at SMP Negeri 3 Medan.**

The goal of this study was to establish if the problem-based learning model has affected students' mathematical literacy. This study was conducted from May until June of 2022 at SMP Negeri 3 Medan. The sample of this research was 15 students from class VII-J at SMP Negeri 3 Medan. This research was an experimental research with quasi-experimental methods using one group pre-test and post-test design. This study uses a test instrument that has been tested and is valid. The data on students' mathematical literacy abilities were tested for normality, and the results were normally distributed. Hypothesis testing was carried out using paired t-test, and the results of this study at the significance level ( $\alpha = 0.05$ ) showed that  $t_{\text{arithmetic}} > t_{\text{table}}$  ( $8.444 > 2.1314$ ) then the alternative hypothesis was accepted, meaning that there was an increase in students' mathematical literacy skills after being given treatment. The explanation above can be concluded that there is an effect of problem-based learning on students' mathematical literacy skills at SMP Negeri 3 Medan.

**Keywords:** Problem Based Learning, Mathematical Literacy

