ABSTRACT

The Effectiveness Of *Problem Based Learning* (PBL) to The Students Matematics Achievement to The Material Of Opportnity Of X Grade MA Miftahul – Ulum Lenteng. Robiatur Rikaini

Keywords: Problem Based Learning (PBL), Learning Achievements

The purpose of this study is know the effectiveness of Problem Based Learning Model to the students' mathematics leraning achievements in material. of opportunities to the X grade of MA.Miftahul – Ulum Lenteng. This study used quantitative experimental research method by design of True Eksperimental *Posttest-Only Control Design*. The population was taken from all X grade students of MA Miftahul – Ulum with sample of X IPS 1 grade number 21 students and X IPS 2 grade number 22 students. The instrument that was used as essay in intial ability and *posttest*.

Based on effective learning criteria to this study was (1)Learning passing, the learning could be said pass if less of 75% from the students who get score 70 in learning result (2) Learning model could be said effective to improve students learning result if statistically the result of students learning indicated the differences that was with understanding after learning.

The result of this study was thefirs criteria had been fulfilled because 90% from students nmber had got score above 70, whrereas second criteria had been fulfilled too. Because statistically the students learning achievements indicated the significant differences between initial understanding before being given treatment using PBL model with the understanding after being given treatment using PBL model. The data analysis was done by t-test.

The result of this study through t-test showed that t_{count} = 3,174 then consulted with t_{table} = 2,020 the significant level of 5 % because t_{count} was bigger than t_{table} , by other word H_o was rejected and H_a was accepted. It indicated that there is significant differences between students' understanding before being given treatment using PBL model with the students' understanding after being given treatment using PBL model.