

**THE EFFECT OF INQUIRY LEARNING MODEL TO STUDENTS'
MATHEMATICAL PROBLEM SOLVING ABILITY IN
GRADE X SMA NEGERI 1 PERBAUNGAN**

Nova Rista S (ID. 4143312025)

ABSTRACT

The aim of this study is to determine and examine whether the Inquiry Learning Model effect the students' mathematical problem solving ability in grade X SMA Negeri 1 Perbaungan. This study was quasi experimental with the Pre-test Post-test Control Group Design. The population of this research were all of students in grade X SMA Negeri 1 Perbaungan academic year 2018/2019. The sample of this research were taken by using random sampling technique, the sample only 72 students consisted of two classes, each class consists of 36 students. Class X MIA 2 was experiment class that taught by Inquiry Learning Model and class X MIA 3 was control class that taught by Direct Instruction. The data of the research were valid essay test of problem solving ability. The data were analyzed by using t-test at significant level $\alpha = 5\%$. The result of this research shows that the average score of pre-test in experiment class X MIA 2 and control class X MIA 3 are 61,48 and 60,28. Then after doing treatment in both class obtained average score of post-test are 78,15 and 64,44. From the hypothesis testing $t_{count} = 4,432 > t_{table} = 1,666$, it means H_0 rejected and H_a accepted. It shows that there is effect of Inquiry Learning Model to students' mathematical problem solving ability.

Keyword: *problem solving ability, Inquiry Learning Model*