

THE COMPARISON OF STUDENT ACHIEVEMENT THROUGH ASSURE LEARNING MODEL AND PROBLEM BASED LEARNING MODEL ON SUB TOPIC OF PLATONIC SOLID: PYRAMID IN GRADE VIII SMP NEGERI 1 TEBING TINGGI

Abstract

Research was carried out at SMP Negeri 1 Tebing Tinggi that had aims to determine whether there are the differences of learning influence between ASSURE learning model and Problem Based Learning (PBL) model on students' achievement. The type of this research was experimental research by provided treatment to both of research sample. The population in this sample was grade VIII RSBI SMP Negeri 1 Tebing Tinggi that consists of 4 classes with an average of 30 students. The samples were taken two classes that are determined by random sampling techniques, namely the experiment class I consist of 27 students and experiment class II consist of 27 students.

Instrument that used in this study was in the form of essay test as much as 5 items that have tested valid and reliable. Before testing the hypothesis, the data was tested for normality and homogeneity test. Normality test used Chi-Square formula and homogeneity test used the F-test. From the results of test, it concluded that both samples were normally distributed and homogeneous. The hypotheses in this study were tested using t-test.

The results of research show that students' achievements in learning by using ASSURE learning models had average of pre-test 59.90 and the average of post-test 80.64. The result of t-test based on statistic calculations, t value was 7.91 Indicating the t table for $N = 27$ and $\alpha = 5\%$ was 1.70 concluded ASSURE Learning Model can improve students' achievement. In PBL learning models obtained an average value of students' pre-test 53.70 and the average value of students' post-test 79.54. The result of t-test based on statistic calculations, t value was 7.52 Indicating t table for $N = 27$ and $\alpha = 5\%$ was 1.70; it concluded that PBL can improve students' achievement.

Statistically by use t-test concluded that there is no significant difference of students' learning achievement which is given by ASSURE model of learning and PBL learning model. It can be seen t value obtained from calculation of the t-test statistic through two-way testing at 1.12 where t table for $N = 27$ and $\alpha = 2.5\%$ was 2.06.

Key words: ASSURE model, Problem Based Learning model, students' achievement