THE COMPARISON OF LEARNING ACHIEVEMENT AND ACTIVITIES BETWEEN STUDENTS TAUGHT WITH GROUP AND INDIVIDUAL WORK OF PBL GRADE XI IA SMAN 1 MATAULI ACADEMIC YEAR 2012/2013

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ABSTRACT

This quasy experiment research aims to investigate the comparison of students' learning achievement and students activities between students taught with group and individual work of problem based learning model on human excretory topic in SMAN 1 Matauli Academic year 2012/2013. The population of this research was all students in SMAN 1 Matauli totaling 202 students. The sample was taken by using cluster random sampling and was obtained the sample for 30 students of PBL with group work and 30 students of PBL with individual. The instrument of research was student's cognitive learning achievement test in multiple choise with 30 questions which had been validated by expert lecturer. The result of data analysis showed that pretest has nearly value, in free PBL with group work class (61.27 ± 4.18) and pretest in PBL with individual work class (61.05 ± 3.97) which statistically have no significant difference. Post-test in PBL with individual work class (89.69 ± 3.84) is higher than PBL with group work class (81.70 ± 4.53). Prerequisite test of analysis consisted of normality test and homogeneity test. The result was showed that all groups were in normal distribution and the sample has same of variant value (homogeneous data). After t-test was carried out by using significance degree $\acute{\alpha} = 0.05$, it was obtained that $t_{count} = 0.17 > t_{table} = 1.683$, so based on the criteria that H_o accepted if $t_{count} < t_{table}$, so this research rejected H_o and accepted H_a. The conclusion of this research is there is significant difference of student's cognitive learning achievement between PBL with group work and PBL with individual work on human excretory system in Grade XI IA SMAN 1 Matauli academic year 2012/2013. Then, result of students activities in PBL with group work has average 69.70 and in PBL with individual work has average 76.42. Based on the result of data, students activities in both classes also shown the different percentage of classroom activities.

Keyword : *Problem Based Learning*