The Relationship between Student's Learning Motivation and Self-Concept Altogether toward Student's Mathematical Communication Ability at Grade IX SMP Negeri 1 Lubuk Pakam Academic Year 2014/2015

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ABSTRACT

This research is attempted to know the Relationship between Student's Learning Motivation and Self-Concept Altogether toward Student's Mathematical Communication Ability at Grade IX SMP Negeri 1 Lubuk Pakam Academic Year 2014/2015 with 56 respondences.

From the instrument test, the results were found as follows: (1) simple regression equation Y on X_1 was $\hat{Y} = 32,891 + 0,430X_1$, simple linier regression test Y on X_1 was $F_{cal} = 1,272 < F_{tab} = 1,897$ and belongs to linear regression at significancy level 5%, (2) simple regression equation Y on X_2 was $\hat{Y} = 33,679 + 0,442X_2$, simple linear regression test Y on X_2 was $F_{cal} = 0,616 < F_{tab} = 1,897$ and belongs to linear regression at significancy level 5%.

The data analysis of the variable correlation can be seen as follows: (1) learning motivation (X_1) with mathematical communication ability (Y) is $r_{calculated} = 7,730 > r_{table} = 4,020$ show the positive correlation at significancy level 5%, (2) self-concept (X_2) with mathematical communication ability (Y) is $r_{cal} = 8,375 > r_{tab} = 4,020$ show the positive correlation at significancy level 5%.

Based on the result of research, it can be concluded that there is a positive relationship between learning motivation (X_1) and mathematical communication ability (Y), there is positive relationship between self-concept (X_2) and mathematical communication ability (Y), there is a is positive relationship between learning motivation (X_1) and self-concept (X_2) altogether toward students' mathematical communication ability (Y).