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

Nelli Siringo Ringo (IDN 4103312021)

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 X₁ was \( \hat{Y} = 32,891 + 0,430X₁ \), simple lineer regression test Y on X₁ was \( F_{\text{cal}} = 1,272 < F_{\text{tab}} = 1,897 \) and belongs to linear regression at significancy level 5%, (2) simple regression equation Y on X₂ was \( \hat{Y} = 33,679 + 0,442X₂ \), simple lineer regression test Y on X₂ was \( F_{\text{cal}} = 0,616 < F_{\text{tab}} = 1,897 \) and belongs to linear regression at significancy level 5%.

The data analysis of the variable correlation can be seen as follows: (1) learning motivation (X₁) with mathematical communication ability (Y) is \( r_{\text{cal}} = 7,730 > r_{\text{table}} = 4,020 \) show the positive correlation at significancy level 5%, (2) self-concept (X₂) with mathematical communication ability (Y) is \( r_{\text{cal}} = 8,375 > r_{\text{table}} = 4,020 \) 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 (X₁) and mathematical communication ability (Y), there is positive relationship between self-concept (X₂) and mathematical communication ability (Y), there is a positive relationship between learning motivation (X₁) and self-concept (X₂) altogether toward students’ mathematical communication ability (Y).