ABSTRACT

Mathematical Understanding of junior high in Solving Flat Sided Space Problems in View of Keirsey's Personality Type. Ufil Kaila

Keywords: *Artisan, Guardian, Idealist, Mathematical Understanding, Rational, Keirsey Personality Type.*

This research is a type of exploratory research with a qualitative descriptive approach. The goal is to describe the mathematical understanding of junior high school students in solving flat-sided geometrical problems in terms of Keirsey's personality type. The research subjects were 4 student VIII grade of SMPN 1 Bluto who were of the same gender, had equal abilities, representing 4 keirsey personality types. Three indiwarnaiors to reveal mathematical understanding, namely Translation and Interpretation, Extrapolation, and Application.

On the Translation and Interpretation indiwarnaior, it was found that students were able to classify known and asked objects in problems. Rational and idealistic students interpret into pictures, artisan students interpret into pictures and tables including elements related to settlement patterns. Guardian students interpret the language described in the form of words based on image analogies. On the extrapolation indiwarnaior students determine the completion procedure, artisan and idealist students use the volume formula as a concept for finding the side length of a large cube. Rational students use pictures, calculated by symbols (signs). Guardian students use the image analogy in finding the many sides of a large cube. In the application indiwarnaior students are able to apply the concept. Artisan and rational students apply it with addition and subtraction operations to express the number of cubes whose sides are colored and which are not colored. Idealistic students and guardians use multiplication and subtraction operations to express the number of cubes whose sides are colored and which are not colored.