

## ABSTRACT

Hidayah, Nur. 2021. Analysis of the Mathematical Representation Ability of Junior High School Students in Solving Two Variable Linear Equations System Problems in terms of the Personality Type of Florence Littauer. Thesis, Mathematics Education Study Program, Faculty of Teacher Training And Education, Darul 'Ulum Islamic University. Supervisor: (1) Ali Shodikin, M.Pd (2) Khafidhoh Nurul Aini, S.Si., M.Pd.

**Keywords:** Analysis, Mathematical Representation, Personality Type Florence Littauer.

Mathematical representation is an expression of mathematical ideas or ideas displayed by students in an effort to find solutions to the problems they are facing. The research is motivated by the low mathematical representation ability of students working on mathematical problems related to representation abilities, only a small number of students answer correctly, and most of the others are weak in utilizing their representational abilities. In this study, the researcher also used Florence Littauer's Personality type, so the treatment is different. The purpose of this research is to describe how the mathematical representation ability of junior high school students in solving problems of a system of linear equations with two variables was seen from the personality type of Florence Littauer.

The type of research used is descriptive research. This research was conducted in class VIII-C at SMP Negeri 2 Sukodadi. Data collection techniques used are questionnaires, tests, and interviews. Questionnaire data is used to determine the personality types of students, namely: sanguine, choleric, melancholic and phlegmatic. The subjects of this study consisted of 8 subjects, namely: S1 and S2 (sanguine), K1 and K2 (choleric), M1 and M2 (melancholy), P1 and P2 (phlegmatic). Each subject was given a test mathematical representation ability followed by interviews to know the fulfillment of each indicator of mathematical representation achieved by students.

Based on the research results obtained: Student with sanguine personality type are classified as having high ability to complete visual and symbolic representations, moderate abilities are less able to complete verbal representations and students classified as moderately capable are less able to complete all indicators of mathematical representation ability. Students with the choleric personality type are classified as having moderate abilities and are less able to complete indicators of visual and symbolic representation, low abilities have not been able to complete verbal representations and students classified as low abilities have not been able to complete all indicators of mathematical representation abilities. Students with melancholic personality type are classified as highly capable and able to complete all indicators of mathematical representation ability. Students with the phlegmatic personality type are classified as having low abilities and have not been able to complete all indicators of mathematical representation ability.