

Analysis of Mathematical Literacy Ability Based on Cognitive Style in Social Arithmetic Material for Grade VIII Students at MTs NW Aik Ampat, East Lombok

This study aims to describe mathematical literacy abilities in relation to the cognitive styles of fast-accurate, reflective, impulsive, and slow-inaccurate. This type of research is a qualitative descriptive. The subjects of the study were 22 students of class VIIIA at MTs NW Aik Ampat, East Lombok, for the 2024/2025 academic year, consisting of 2 students with a fast-accurate, 6 students with a reflective, 11 students with an impulsive, and 3 students with a slow-inaccurate. The subject selection technique used was purposive sampling. The research instruments are MFFT (Matching Familiar Figures Test), a mathematical literacy ability test, and interview guidelines. The data analysis technique employed included reduction, presentation, and conclusion/verification. The analysis was conducted based on aspects of mathematical literacy ability, including formulating situations into mathematical forms; applying mathematical concepts, reasoning, and procedures; and interpreting mathematical solutions. Based on the results of the study, it was obtained that students with fast-accurate and reflective cognitive styles were able to master all three aspects of mathematical literacy, though fast-accurate students were less meticulous in their writing. Meanwhile, students with impulsive and slow-inaccurate cognitive styles were able to meet all three aspects of mathematical literacy but had not yet fully mastered them.

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