

**ANALYSIS OF STUDENTS' DIFFICULTIES IN SOLVING
MATHEMATICS PROBLEMS OF ARITHMETIC SEQUENCES AND SERIES
MATERIALS VIEWED FROM COGNITIVE STYLES OF INDEPENDENT
FIELD
AND FIELD DEPENDENT**

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ABSTRACT

The objective of research was to determine the analysis of students' difficulties in solving mathematical problems on arithmetic sequences and series material viewed from field independent (FI) and field dependent (FD) cognitive styles in class XI SMA Negeri 21 Medan. This research was to use a qualitative approach. This research took place at SMA Negeri 21 Medan. This research involved 35 students of class XI IPA 1. The collection procedure used was the GEFT test, problem solving test, interviews and documentation. The data analysis technique used was data reduction, data presentation and conclusion/verification. From the results of the research it is known that students with the independent field cognitive style (FI) were quicker to recall material that had been delivered by the teacher. Students with a field dependent cognitive style (FD) could not determine plus and the formula used to solve problems. Overall it can be seen that students with field dependent cognitive style (FD) were less able to recall the material presented by the teacher.

Keywords: students' difficulties, mathematical problems, arithmetic sequences and series, cognitive style, field independent, field dependent

