

ANALISIS KEMAMPUAN SISWA DALAM MENYELESAIKAN SOAL CERITA BARISAN DAN DERET ARITMETIKA BERDASARKAN TEORI POLYA DITINJAU DARI GAYA KOGNITIF KELAS XI SMA NEGERI 1 MENGWI

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ABSTRAK

Tujuan dari penelitian ini untuk menganalisis kemampuan siswa kelas XI SMA Negeri 1 Mengwi dalam menyelesaikan soal cerita barisan dan deret aritmetika berdasarkan teori Polya yang ditinjau dari gaya kognitif. Jumlah responden 121 siswa. Metode yang digunakan, yaitu penelitian deskriptif kualitatif dan penelitian *ex-post facto* dengan pendekatan kuantitatif. Teknik pengumpulan data dilakukan dengan tes gaya kognitif, tes kemampuan menyelesaikan soal cerita, serta wawancara subjek terpilih. Adapun teknik analisis data yang dilakukan secara kualitatif dan kuantitatif. Hasil penelitian menunjukkan bahwa: (1) Subjek FD (*Field Dependence*) dalam kategori kurang pada langkah memahami soal cerita, merencanakan penyelesaian, melaksanakan rencana penyelesaian, dan melihat kembali. Subjek FDI (*Field Dependence-Independence*) dalam kategori baik pada langkah memahami soal cerita dan merencanakan penyelesaian, sedangkan pada langkah melaksanakan rencana penyelesaian dan melihat kembali termasuk kategori kurang. Subjek FI (*Field Independence*) dalam kategori baik pada langkah memahami soal cerita, merencanakan penyelesaian, melaksanakan rencana penyelesaian, dan melihat kembali. (2) Gaya kognitif berpengaruh terhadap kemampuan siswa kelas XI SMA Negeri 1 Mengwi dalam menyelesaikan soal cerita berdasarkan teori Polya.

Kata Kunci: Kemampuan Menyelesaikan Soal Cerita, Teori Polya, Gaya Kognitif, *Field Dependence*, *Field Dependence-Independence*, *Field Independence*

ABSTRACT

The purpose of this study was to analyze the ability of class XI students at SMA Negeri 1 Mengwi in solving story problems in arithmetic sequences and series based on Polya's theory in terms of cognitive style. The number of respondents is 121 students. The method used is descriptive qualitative research and ex-post facto research with a quantitative approach. Data collection techniques were carried out using cognitive style tests, ability tests to solve word problems, and interviews with selected subjects. The data analysis techniques were carried out qualitatively and quantitatively. The results showed that: (1) Subjects of FD (Field Dependence) were in the less category in the steps of understanding story problems, planning solutions, implementing plans for solving, and looking back. The subject of FDI (Field Dependence-Independence) is in the good category in the step of understanding story problems and planning solutions, while in the step of

implementing the solution plan and looking back, it is included in the poor category. The subject of FI (Field Independence) is in the good category in the steps of understanding story problems, planning solutions, implementing plans for solving, and looking back. (2) Cognitive style affects the ability of class XI students of SMA Negeri 1 Mengwi in solving word problems based on the Polya theory.

Keywords: *Ability to Solve Story Problems, Polya Theory, Cognitive Style, Field Dependence, Field Dependence-Independence, Field Independence*

