

## ABSTRAK

Tjandra, H. J. Maria 2023, *Analisis kesalahan siswa dalam menyelesaikan soal cerita matematika berdasarkan Tahapan Newman*. Skripsi. Program Studi Pendidikan Matematika. Fakultas Sains dan Teknologi. Universitas PGRI Adi Buana Surabaya. Pembimbing Erlyn Ladyawati, S.Pd., M.Pd.

Kata Kunci : Analisi kesalahan, Soal Cerita, Teori Newman, SPLDV

Dalam menyelesaikan soal cerita matematika tidak hanya memperhatikan jawaban akhir dari perhitungan, tetapi juga memperhatikan cara penyelesaiannya. Penelitian ini bertujuan untuk mendeskripsikan jenis-jenis kesalahan dan faktor penyebab yang dilakukan siswa dalam menyelesaikan soal cerita matematika pada Materi Sistem Persamaan Linier Dua Variabel (SPLDV). Penelitian ini merupakan penelitian deskriptif-kualitatif, subjek yang diteliti dalam penelitian ini yaitu siswa kelas VIIIA SMPN 02 Jambesari Darus Dhollah Bondowoso, dari 15 siswa yang mengikuti tes uraian dipilih 3 siswa dengan nilai terendah, yang dijadikan subjek penelitian yang serta dilakukan wawancara untuk mengetahui faktor penyebab kesalahan yang dilakukan siswa. Instrumen yang digunakan dalam penelitian ini, yaitu instrumen tes dan pedoman wawancara, teknik analisis yang digunakan, yaitu reduksi data, penyajian data, dan verifikasi data. Hasil penelitian Hasil penelitian ini, diperoleh jenis kesalahan yang dilakukan siswa dalam menyelesaikan soal cerita berdasarkan teori Newman, yaitu : (1) kesalahan membaca soal, namun pada penelitian ini siswa tidak melakukan kesalahan membaca. (2) kesalahan memahami masalah, (3) kesalahan transformasi, (4) kesalahan keterampilan proses, dan (5) kesalahan penulisan jawaban akhir. Penyebab siswa melakukan kesalahan tersebut adalah, siswa lupa dan terburu-buru saat mengerjakan soal, siswa tidak teliti dalam menjawab soal, siswa tidak teliti dalam menghitung dan mengerjakan soal, dan siswa tidak terbiasa menulis kesimpulan.

## ABSTRACT

Tjandra, H. J. Maria 2023, *Analysis of student errors in solving math word problems based on Newman's Stages*. Thesis. Mathematics Education Study Program. Faculty of Science and Technology. PGRI Adi Buana University, Surabaya. Supervisor Erlyn Ladyawati, S.Pd., M.Pd

Keywords: Error Analysis, Story Problem , Newman Stages, SPLDV.

In solving math word problems, you should not only pay attention to the final answer of the calculation, but also pay attention to how to solve it. This study aims to describe the types of errors and the causative factors that students make in solving math word problems in the Material of Two-Variable Linear Equation Systems (SPLDV). This research is a descriptive-qualitative study, the subjects studied in this study were class VIIIA students at SMPN 02 Jambesari Darus Dhollah Bondowoso. Of the 15 students who took the essay test, 3 students with the lowest scores were selected, The subjects studied in this study were class VIIIA students at SMPN 02 Jambesari Darus Dhollah Bondowoso. Of the 15 students who took the essay test, 3 students with the lowest scores were selected, who were used as research subjects and interviews were conducted to find out the factors causing the mistakes made by students. The instruments used in this study were test instruments and interview guides. The analytical techniques used were data reduction, data presentation, and data verification. Research results The results of this study, obtained the types of errors made by students in solving word problems based on Newman's theory, namely: (i) error in reading the questions, but in this study students did not make reading mistakes.(ii) error in understanding the problem, (iii) error in transformation, (iv) error in processing skills, and (v) error in writing the final answer. The reason students make these mistakes is, students are not careful in reading questions, students forget and rush when working on questions, students are not careful in answering questions, students are not careful in calculating and working on questions, and students are not used to writing conclusions.

