

ABSTRAK

Hamida Alor, 2024. “Analisis Kesalahan Siswa dalam Menyelesaikan Soal Cerita Menurut Tahapan Kastolan Pada Materi Himpunan di kelas VII Semester Genap Tahun Ajaran 2023/2024”. **Dibawah bimbingan Bapak Dr. Hery Suharna, M.Sc.,M.Pd. dan Bapak Dr. Karman La Nani, S.Pd., M.Si.**

Penelitian ini bertujuan untuk mendeskripsikan kesalahan siswa dalam menyelesaikan soal cerita menurut tahapan kastolan pada materi Himpunan. Jenis penelitian ini adalah Deskriptif Kualitatif, Subjek dalam penelitian ini adalah siswa kelas VII/2 di SMP Negeri 2 Kota Ternate. Subjek penelitian ini berjumlah 25 siswa, teknik pengumpulan data dilakukan dengan menggunakan observasi, tes dan wawancara. Data dianalisis dengan menggunakan reduksi data, penyajian data, triangulasi dan penarikan kesimpulan.

Berdasarkan hasil penelitian, disimpulkan bahwa (1) Terdapat 1 siswa (4%) memiliki kesalahan dengan kategori rendah, 6 siswa (24%) dengan kesalahan kategori sedang, dan 18 siswa (72%) dengan kesalahan kategori tinggi, (2) Terdapat 20 siswa (80%) mengalami kesalahan konseptual karena siswa tidak memahami materi himpunan dalam menuliskan rumus gabungan antara dua himpunan untuk menentukan banyaknya siswa yang menyukai keduanya, siswa tidak memahami materi himpunan semesta, anggota himpunan, gabungan antara dua himpunan, dan operasi himpunan yang dipelajari secara konseptual, (3) Terdapat 19 siswa (76%) yang mengalami kesalahan prosedural menurut tahapan kesalahan Kastolan, karena tidak lengkap dalam menentukan langkah-langkah penyelesaian untuk menentukan gabungan dua himpunan, dan menyelesaikan operasi dua himpunan, (4) Terdapat 23 siswa (92%) yang mengalami kesalahan tehnikal menurut tahapan Kastolan karena siswa tidak menulis simbol untuk menentukan banyaknya siswa yang menyukai keduanya.

Kata Kunci: *Analisis Kesalahan, Tahapan Kastolan, soal Cerita, materi himpunan*

ABSTRACT

Hamida Alor, 2024. "Analysis of Student Mistakes in Solving Story Problems According to Kastolan Stages in Set Material in Class VII Even Semester 2023/2024 Academic Year". **Under the guidance of Mr. Dr. Hery Suharna, M.Sc., M.Pd. and Mr. Dr. Karman La Nani, S.Pd., M.Sc.**

This research aims to describe students' mistakes in solving story problems according to the kastolan stages in the set material. This type of research is Qualitative Descriptive. The subjects in this research are class VII/2 students at SMP Negeri 2 Ternate City. The subjects of this research were 25 students, data collection techniques were carried out using observation, tests and interviews. Data were analyzed using data reduction, data presentation, triangulation and drawing conclusions.

Based on the research results, it was concluded that (1) There was 1 student (4%) with a low category error, 6 students (24%) with a medium category error, and 18 students (72%) with a high category error, (2) There were 20 students (80%) experience conceptual errors because students do not understand the set material in writing the combination formula between two sets to determine the number of students who like both, students do not understand the material of universal sets, members of sets, the combination between two sets, and set operations which are studied in a comprehensive manner. conceptual, (3) There were 19 students (76%) who experienced procedural errors according to the Kastolan error stages, because they were incomplete in determining the solution steps to determine the combination of two sets, and completing operations on two sets, (4) There were 23 students (92 %) who experienced technical errors according to the Kastolan stage because students did not write symbols to determine the number of students who liked both.

Keywords: *Error Analysis, Kastolan Stages, Story questions, set material*