

ABSTRAK

Ira Scintia Oktavina. NIM 4161111034 (2020). Analisis Kesalahan Siswa Menyelesaikan Soal Matematis Berbasis High Order Thinking (HOT) Dengan Metode Analisis Kesalahan Newman

Penelitian ini bertujuan untuk mengetahui jenis dan faktor penyebab kesalahan siswa menyelesaikan soal matematis berbasis High Order Thinking (HOT) dengan metode analisis kesalahan newman. Jenis penelitian ini adalah penelitian kualitatif dengan menggunakan metode studi kepustakaan (*library research*). Hasil penelitian menunjukkan bahwa terdapat 4 jenis kesalahan yang dilakukan siswa yaitu kesalahan pemahaman, kesalahan transformasi, kesalahan keterampilan proses, dan kesalahan penulisan jawaban akhir. Faktor penyebab kesalahan-kesalahan siswa dalam menyelesaikan soal matematika berbasis HOT berdasarkan metode analisis kesalahan Newman yaitu siswa tidak mampu menangkap informasi secara keseluruhan sesuai dengan permasalahan pada soal, siswa tidak mampu mengubah informasi soal kedalam model matematika, dan tidak tepat menentukan operasi, metode serta rumus pada soal, siswa ceroboh dalam perhitungan, siswa tidak terbiasa menuliskan/menarik kesimpulan pada jawaban akhir.

Kata Kunci : *Analisis Kesalahan Newman, Soal HOT*

ABSTRACT

Ira Scintia Oktavina. Student ID number 4161111034 (2020). Student Error Analysis Solving Mathematical Problems Based on High Order Thinking (HOT) Using the Newman Error Analysis Method

This study aims to determine the types and factors that cause student errors to solve mathematical problems based on High Order Thinking (HOT) with the Newman error analysis method. This type of research is qualitative research using library research methods. The results showed that there were 4 types of errors made by students, namely misunderstanding, transformation errors, processing skills errors, and errors in writing the final answer. The factors that cause student errors in solving HOT-based math problems based on the Newman error analysis method are students who are unable to capture information as a whole according to the problems in the questions, students are not able to change the question information into a mathematical model, and do not correctly determine the operation, method and formula on questions, students are careless in calculations, students are not used to writing / drawing conclusions on the final answer.

Keywords: Newman's Error Analysis, HOT Problem