

Utami, N.S. 2019. Analisis Kesalahan Siswa Kelas VIII dalam Menyelesaikan Soal-Soal Materi Tekanan pada Zat Menurut Polya. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Laila Khamsatul Muharrami dan Nur Qomaria.

ABSTRAK

Penelitian bertujuan untuk mengetahui jenis kesalahan siswa dan faktor penyebab siswa melakukan kesalahan dalam menyelesaikan soal-soal materi tekanan pada zat menurut Polya di kelas VIII. Metode penelitian adalah deskriptif kualitatif. Pengumpulan data dilakukan menggunakan metode tes tertulis, angket, dan wawancara terstruktur. Subjek dalam penelitian adalah 6 orang siswa. Hasil penelitian menunjukkan persentase kesalahan yang dilakukan siswa berdasarkan Polya adalah: (1) Persentase kesalahan memahami masalah sebesar 15,72% (2) Persentase kesalahan merencanakan penyelesaian sebesar 20,75% (3) Persentase kesalahan menyelesaikan masalah sebesar 28,30% (4) Persentase kesalahan mengecek ulang hasil perhitungan sebesar 35,22%. Faktor-faktor penyebab kesalahan siswa adalah siswa kurang memahami materi, siswa tidak terbiasa mengerjakan soal dan kurang teliti saat menyelesaikan perhitungan matematis.

Kata kunci: kesalahan siswa, tekanan pada zat, teori Polya.

Utami, N.S. 2019. Error Analysis of Class VIII Students in Solving Material Problems on Pressure of Substances According to Polya. Thesis, Science Education Study Program, Faculty of Education, University of Trunojoyo Madura. Advisors: Laila Khamsatul Muharrami and Nur Qomaria.

ABSTRACT

This research aims to determine the types of student errors and factors that cause students to make mistakes in solving material problems on pressure of substance according to Polya class VIII. The research method is qualitative descriptive. The technique of collecting data is using the method of written tests, questionnaires, and structured interviews. The subjects in this study were 6 students. The results showed the percentage of errors made by students based on Polya were: (1) The percentage of errors in understanding the problem are 15.72% (2) The percentage of errors in problem solving plan are 20.75% (3) The percentage of errors in problem solving are 28.30% (4) The percentage of errors in checking the calculation result are 35.22%. The cause of student errors are the students do not understand the material, the students are not used to working on problems and are not thorough in solving mathematical calculations.

Keywords: Student Errors, Pressure of Substances, Polya Theory.