

ABSTRAK

Robertus Harmon Subin. 2014. Analisis Kesalahan Dalam Menyelesaikan Soal Operasi Penjumlahan dan Pengurangan Bilangan Bulat Di Kalangan Siswa Kelas VII Semester I SMP St. Aloysius Turi Tahun Pelajaran 2014/2015. Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pengetahuan, Universitas Sanata Dharma Yogyakarta.

Penelitian ini bertujuan untuk: 1) mengetahui jenis-jenis kesalahan yang dibuat siswa dalam menyelesaikan soal-soal operasi penjumlahan dan pengurangan bilangan bulat, 2) mengetahui penyebab terjadinya kesalahan-kesalahan yang dilakukan siswa saat menyelesaikan soal-soal operasi penjumlahan dan pengurangan bilangan.

Subjek penelitian ini adalah siswa kelas VIIA SMP St. Aloysius Turi tahun ajaran 2014/2015 dengan jumlah siswa 24 orang. Penelitian ini dilaksanakan pada Bulan Oktober - November 2014 dengan materi operasi penjumlahan dan pengurangan bilangan bulat. Jenis penelitian ini adalah deskriptif kualitatif. Data yang dikumpulkan dalam penelitian ini adalah data mengenai jenis- jenis kesalahan yang dilakukan siswa dan faktor- faktor penyebab terjadinya kesalahan. Data ini diperoleh dari hasil tes dan hasil wawancara siswa.

Hasil penelitian ini menunjukkan bahwa masih banyak siswa yang melakukan kesalahan dalam mengerjakan soal-soal operasi penjumlahan dan pengurangan bilangan bulat. Berdasarkan hasil tes, diperoleh kesalahan-kesalahan yang dilakukan siswa, antara lain : (1) kesalahan teknis, (2) kesalahan menggunakan defenisi atau teorema, (3) kesalahan data, (4) Penyelesaian akhir yang tidak diperiksa kembali. Berdasarkan hasil analisis terhadap jawaban tes dan hasil wawancara siswa dapat diketahui penyebab siswa melakukan kesalahan, antara lain : (1) belum menguasai materi operasi penjumlahan dan pengurangan bilangan bulat, (2) belum menguasai konsep penjumlahan dan pengurangan bilangan bulat, (3) kurang teliti saat membaca soal, (4) kurang teliti dalam melakukan perhitungan.

ABSTRACT

Robertus Harmon Subin. 2014. Error Analysis in Solving Addition and Subtraction Operation of First Semester Seventh Graders of St. Aloysius Turi Junior High School of Academic Year of 2014/2015. Mathematics Education Study Program, Department of Mathematics and Natural Science Education, Faculty of Teacher Training and Education, Sanata Dharma University Yogyakarta.

This research was aimed to: 1) find the types of errors made by students in solving addition and subtraction operations of integer, 2) find the causes or errors made by students in solving addition and subtraction operations of integers.

The subject of this research was 24 first semester seventh graders of St. Aloysius Turi Junior High School of Academic year of 2014/2015. The research was done from October – November 2014 with the material of addition and subtraction operations of integers. This research was a descriptive cumulative research. Data gained in this research were data of the type of errors done by students and the causes of the errors. The data were gained from the test and the interview with the students.

The result of the research showed that there were many students making errors in solving addition and subtraction operations of integers. Based on the interview, the types of errors done by students were: (1) technical error, (2) error in using definition or theorem, (3) data error, (4) unchecked final solution. Based on analysis on the test answer and interview with the students, the causes of errors were that the students: (1) did not really master the materials of addition and subtraction operation of integers, (2) did not really master the concept of addition and subtraction operations operations of integers, (3) were not careful in reading the problem, (4) were not careful in doing the calculation.