

ABSTRAK

Palma, Dewi Isabella. 2021. Analisis Kesalahan Siswa Dalam Menyelesaikan Soal Literasi Matematika PISA Pada Konten *Change And Relationship* Saat Sebelum Dan Sesudah Pembelajaran *Problem Solving* Bagi Siswa Kelas VIII C SMP Negeri 1 Yogyakarta Tahun Ajaran 2020/2021. Skripsi. Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta.

Tujuan penelitian ini, yaitu: (1) mendeskripsikan kesalahan siswa Kelas VIII C SMP Negeri 1 Yogyakarta Tahun Ajaran 2020/2021 dalam menyelesaikan soal adaptasi PISA pada konten *change and relationship* sebelum pembelajaran *problem solving*, (2) Mendeskripsikan kesalahan siswa Kelas VIII C SMP Negeri 1 Yogyakarta Tahun Ajaran 2020/2021 dalam menyelesaikan soal adaptasi PISA pada konten *change and relationship* sesudah pembelajaran *problem solving*, dan (3) Mendeskripsikan perbandingan kesalahan siswa Kelas VIII C SMP Negeri 1 Yogyakarta Tahun Ajaran 2020/2021 dalam menyelesaikan soal adaptasi PISA pada konten *change and relationship* saat sebelum dengan sesudah dilakukan pembelajaran *problem solving*.

Subjek penelitian ini adalah kelas VIII C SMP Negeri 1 Yogyakarta tahun ajaran 2020/2021 terdiri dari 35 siswa. Jenis penelitian yang digunakan adalah penelitian deskriptif kualitatif. Metode pengumpulan data yang digunakan adalah tes tertulis (*Pre test* dan *Post test*) dan wawancara. Analisis data yang digunakan adalah teknik analisis data kualitatif. Penelitian ini menggunakan teori analisis kesalahan menurut Newman.

Hasil penelitian menunjukkan bahwa kesalahan yang dilakukan siswa dalam menyelesaikan soal adaptasi PISA sebelum dilakukan pembelajaran *problem solving* adalah kesalahan memahami, kesalahan transformasi, kesalahan keterampilan proses, dan kesalahan menuliskan jawaban. Kemudian, kesalahan yang dilakukan siswa dalam menyelesaikan soal adaptasi PISA sesudah dilakukan pembelajaran *problem solving* adalah kesalahan transformasi, kesalahan keterampilan proses, dan kesalahan menuliskan jawaban. Hasil perbandingan kesalahan yang dilakukan siswa dalam menyelesaikan soal adaptasi PISA sebelum dan sesudah dilakukan pembelajaran *problem solving* adalah terjadi penurunan kesalahan yang dilakukan siswa (semakin membaik), meskipun siswa masih melakukan kesalahan transformasi, kesalahan keterampilan proses dan kesalahan menuliskan jawaban.

Kata kunci: Analisis Kesalahan Menurut Newman, Literasi Matematika, PISA, Konten *Change and Relationship*

ABSTRACT

Palma, Dewi Isabella. 2021. Analysis of Student Errors in Solving PISA Mathematical Literacy Questions on Change and Relationship Content Before and After Problem Solving Learning for Class VIII C Students at SMP Negeri 1 Yogyakarta for the 2020/2021 Academic Year. Undergraduate Thesis. Mathematics Education Study Program, Department of Mathematics and Sciences Education, Faculty of Teacher Training and Education, Sanata Dharma University, Yogyakarta

The aims of this study were: (1) to describe the errors of Class VIII C students of SMP Negeri 1 Yogyakarta in the 2020/2021 academic year in solving PISA adaptation questions on change and relationship content before training, (2) to describe the errors of Class VIII C students of SMP Negeri 1 Yogyakarta Academic Year 2020/2021 in solving PISA adaptation questions on change and relationship content after training, and (3) to describes the comparison of the errors of Class VIII C students of SMP Negeri 1 Yogyakarta in the 2020/2021 academic year in solving PISA adaptation questions on change and relationship content before and after training.

The subjects of this research were Class VIII C students of SMP Negeri 1 Yogyakarta in the academic year 2020/2021 consisting of 35 students. The type of research used was descriptive qualitative research. Data collection methods used were written tests (Pre-test and Post-test) and interviews. Data analysis used was qualitative data analysis technique. This research uses the theory of error analysis according to Newman.

The results showed that the errors made by students in solving PISA adaptation questions before problem solving learning were comprehension errors, transformation errors, process skills errors, and encoding errors. Then, the errors made by students in solving PISA adaptation questions after problem solving learning were transformation errors, process skills errors, and encoding errors. The results of the comparison of errors made by students in solving PISA adaptation questions before and after problem solving learning were that there was decrease in the errors made by the students (there was an improvement), although the students still made transformation errors, process skills errors and encoding errors after training.

Keywords: Error Analysis by Newman, Mathematical Literacy, PISA, Change and Relationship Content