

ABSTRAK

Veni Setyarini, 2017. Analisis Kemampuan Siswa dalam Menyelesaikan Soal Matematika pada Pokok Bahasan Persamaan Linear Dua Variabel di Kalangan Siswa Kelas VIII C SMP Pangudi Luhur I Yogyakarta Tahun Ajaran 2016/ 2017. Program Studi Pendidikan Matematika, Jurusan Pendidikan dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan Matematika, Universitas Sanata Dharma.

Penelitian ini bertujuan untuk: 1) mengetahui hasil belajar siswa kelas VIII C SMP Pangudi Luhur I Yogyakarta dalam menyelesaikan soal matematika pada pokok bahasan persamaan linear dua variabel, 2) Mengetahui tingkat pemahaman langkah-langkah penyelesaian dan pengerjaan soal matematika pada pokok bahasan persamaan linear dua variabel di kalangan siswa kelas VIII C SMP Pangudi Luhur I Yogyakarta.

Penelitian ini menggunakan metode deskriptif kualitatif-kuantitatif. Subjek penelitian ini adalah siswa kelas VIII C SMP Pangudi Luhur 1 Yogyakarta tahun ajaran 2016/ 2017. Penelitian ini dilakukan pada bulan Februari-Maret 2017 dengan objek penelitian kemampuan menyelesaikan soal matematika pada pokok bahasan persamaan linear dua variabel. Data diperoleh dari hasil tes tertulis dan wawancara dengan beberapa siswa.

Hasil penelitian ini menunjukkan bahwa persentase ketuntasan hasil belajar siswa kelas VIII C adalah 25.58%. Persentase tersebut diperoleh karena dari 43 siswa yang mengikuti tes, hanya 11 siswa yang mendapat nilai di atas KKM (KKM = 77). Hal ini menunjukkan bahwa kemampuan siswa tersebut tergolong masih rendah. Di sisi lain, tingkat pemahaman dalam menyelesaikan soal berdasarkan taksonomi SOLO, dilihat dari uraian jawaban seluruh siswa menunjukkan bahwa siswa kelas VIII C terdiri dari tingkat *unistructural* (25.58%), *multistructural* (41.86%), *relational* (23.26%), dan *extended relational* (9.30%). Sedangkan tingkat pemahaman siswa berdasarkan hasil wawancara beberapa siswa menunjukkan bahwa siswa kelas VIII C terdiri dari tingkat *multistructural*, *relational*, dan *extended relational*. Secara keseluruhan baik berdasarkan uraian siswa maupun hasil wawancara, tingkat pemahaman siswa kelas VIII C cenderung pada tingkat *multistructural*. Tingkatan ini memiliki arti bahwa siswa sudah memahami dan dapat merencanakan penyelesaian soal tetapi belum mampu menyelesaikannya dengan baik.

Kata kunci: analisis kemampuan, hasil belajar, tingkat pemahaman, persamaan linear dua variabel

ABSTRACT

Veni Setyarini, 2017. Analysis on the Students' Ability in Solving the Problems about Linear Equations in Two Variables of Grade VIII C Students in Pangudi Luhur I Junior High School Yogyakarta on the 2016/2017 Academic Year. Mathematics Education Study Program, Department of Mathematics and Science Education, Faculty of Teacher Training and Education, Sanata Dharma University.

This research aims to find out: 1) the learning outcomes of Grade VIII C students in Pangudi Luhur I Junior High School Yogyakarta in terms of solving the problems about linear equations in two variables, 2) the level of understanding regarding the steps on working and solving the problems of linear equations in two variables among VIII C students in Pangudi Luhur I Junior High School Yogyakarta.

The method applied in this research are quantitative and descriptive qualitative. The subjects are grade VIII C students in Pangudi Luhur I Junior High School Yogyakarta on the Academic Year of 2016/2017. The research was conducted on February-March 2017 with students' ability in solving the problems about linear equations in two variables as the object of study. The data were collected from the results of written test and interview with some students.

The result of this research illustrates that the mastery learning's percentage of grade VIII C students is 25.58%. This percentage is obtained because with the total of 43 students taking part of the test, there are only 11 students who got the score above the minimum criteria of mastery learning (KKM = 77). This reveals that the students' ability is still low. On the other hand, the level of understanding in solving the problems based on the SOLO taxonomy, based on all the students' answers alone reflect the fact that the grade VIII C students composed of unistructural level (25.58%), multistructural level (41.86%), relational level (23.26%), and extended relational level (9.30%). Meanwhile, the level of understanding of grade VIII C students based on the interview's result of some students describes that the students consist of multistructural level, relational level, and extended relational level. Based on the students' elucidation and interview, it shows that the understanding of grade VIII C students tends to fall on the level of multistructural. It means that the students already understand and are able to plan the solving steps of the problems. However, they are not yet able to solve the problem well.

Keywords: ability analysis, learning outcomes, level of understanding, linear equations in two variables