ABSTRAK

Widhia Tri Nuragni. 2018. Analisis Kemampuan SiswaDalam Menyelesaikan Soal Matematika Tipe *Higher Order Thinking* Pada Pokok Bahasan Pola Bilangan di Kalangan Siswa Kelas VIII E SMP Negeri 5 Yogyakarta Tahun Ajaran 2018/2019. Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata DharmaYogyakarta.

Penelitian ini bertujuan untuk: 1) mengetahui hasil belajar siswa kelas VIII E SMP Negeri 5 Yogyakarta dalam menyelesaikan soal matematikatipe *Higher Order Thinking* pada pokok bahasan pola bilangan, 2) Mengetahui tingkat kualitas respon siswa dalam pengerjaan soal matematika tipe *Higher Order Thinking* pada pokok bahasan pola bilangan di kalangan siswa kelas VIII E SMP Negeri 5 Yogyakarta.

Penelitian ini menggunakan metode deskripstif. Subjek penelitian ini adalah siswa kelas VIII E SMP Negeri 5 Yogyakarta tahun ajaran 2018/2019. Penelitian ini dilakukan pada bulan Agustus-Oktober 2017 dengan objek penelitian kemampuan menyelesaikan soal matematikatipe *Higher Order Thinking* pada pokok bahasan pola bilangan. Data diperoleh dari hasil tes tertulis dan wawancara dengan beberapa siswa.

Hasil penelitian ini menunjukkan bahwa persentase ketuntasan hasil belajar siswa kelas VIII E adalah 27,59%. Persentase tersebut diperoleh karena dari 29 siswa yang mengikuti tes, hanya 8 siswa yang mendapat nilai di atas KKM (KKM = 80). Hal ini menunjukkan bahwa kemampuan siswa tersebut tergolong masih rendah. Dari hasil tersebut jugadiperoleh kemampuan siswa dalam menyelesaikan soal matematika tipe *HOTs*masih rendah untuk tingkat evaluasi (C5) dan kreasi (C6). Di sisi lain,tingkat kualitas respon siswa dalam menyelesaikan soaltipe *HOTs*berdasarkan taksonomi *SOLO*, dilihat dari uraian jawaban seluruh siswa menunjukkan bahwa siswa kelas VIII E terdiri dari tingkat *unistructural* (13,79%), *multistructural* (44,83%),dan *relational* (41.38%). Sedangkan tingkat kualitas respon siswa berdasarkan hasil wawancara beberapa siswa menunjukkan bahwa siswa kelas VIII E terdiri dari tingkat *multistructural, relational*, dan *extended relational*. Secara keseluruhan baik berdasarkan uraian siswa maupun hasil wawancara, tingkat pemahaman siswa kelas VIII E 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, soal tipe *HOTs*, hasil belajar, kualitas respon, pola bilangan

ABSTRACT

Widhia Tri Nuragni. 2018. Analysis on the Students' Ability in Solving the Higer Order Thinking Problems Type about Number Pattern of Grade VIII E Students in State Junior High School 5 Yogyakarta on the 2018/2019 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 E students in State Junior High School 5 Yogyakarta in terms of solving the HOTs problems about number pattern, 2) the quality of response regarding the steps on solving the HOTs problems about number pattern among VIII E students in State Junior High School 5 Yogyakarta.

The method applied in this research is descriptive. The subjects are grade VIII E students in State Junior High School 5 Yogyakarta on the Academic Year of 2018/2019. The research was conducted on August-October 2018 with students' ability in solving the HOTs problems about number pattern 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 E students is 27.59%. This percentage is obtained because with the total of 29 students taking part of the test, there are only 8 students who got the score above the minimum criteria of mastery learning(KKM = 80). This reveals that the students' ability is still low. From these results also obtained the ability of students to solve HOTs type questions is still low for evaluation level (C5) and creation level (C6). On the other hand, the quality of response in solving the problems based on the SOLO taxonomy, based on all the students' answers alone reflect the fact that the grade VIII E students composed of unistructural level (13.79%), multistructural level (44.83%), and relational level (41.38%). Meanwhile, the quality of response of grade VIII E 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 E 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 problemwell.

Keywords: ability analysis, HOTs type problems, learning outcomes, quality of response, number pattern