

ABSTRAK

Clara Wahyu Purba Laras. 2019. Analisis Tingkat Kemampuan Berpikir Kreatif Mahasiswa Pendidikan Matematika Semester 6 Universitas Sanata Dharma dalam Menyelesaikan dan Merancang Soal Berstandar PISA pada Materi Pola Bilangan. Skripsi. Program Studi Pendidikan Matematika, Jurusan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma.

Seorang guru memiliki tanggung jawab untuk meningkatkan kreativitas siswanya, oleh karena itu guru juga dituntut untuk memiliki kreativitas yang baik. Penelitian ini bertujuan untuk mendeskripsikan tingkat kemampuan berpikir kreatif mahasiswa semester 6 pendidikan matematika Universitas Santa Dharma tahun ajaran 2018/2019 dalam menyelesaikan dan merancang soal berstandar PISA pada materi pola bilangan.

Jenis penelitian yang digunakan dalam penelitian ini adalah deskriptif kualitatif. Subyek penelitian adalah 5 mahasiswa semester 6 dari program studi pendidikan matematika Universitas Sanata Dharma. Penelitian ini dilaksanakan pada bulan Maret-Mei 2019. Pengumpulan data dalam penelitian ini menggunakan tes hasil kerja subyek dalam menyelesaikan dan merancang soal berstandar PISA pada materi pola bilangan, dan wawancara. Instrumen pengumpulan data yaitu soal tes, pedoman tes merancang, *handout* diskusi dan lembar pedoman wawancara mahasiswa. Data dianalisis dengan menggunakan metode perbandingan tetap untuk tes menyelesaikan masalah, dan menggunakan metode milik Miles dan Huberman, Kemudian dilakukan penskoran menggunakan hasil adaptasi tabel penskoran tingkat kemampuan berpikir kreatif milik Bosch.

Hasil penelitian menunjukkan bahwa: (1) Seluruh subyek pada kelompok soal level soal 1, 2, dan 3 berada pada kategori sedang. Pada soal level 4 dan 5, tingkat kreativitas mahasiswa terbagi atas kategori sangat tinggi, sedang, dan rendah. Pada soal level 6 terdapat 2 tingkat kreativitas, yaitu rendah dan sangat rendah. Mahasiswa dengan kreativitas sangat tinggi telah memenuhi 3 aspek kreativitas. Mahasiswa dengan kreativitas sedang telah memenuhi aspek kefasihan, namun belum memenuhi aspek fleksibilitas dan orisinalitas dengan maksimal, Mahasiswa dengan kreativitas rendah belum memenuhi aspek kefasihan, fleksibilitas dan orisinalitas dengan maksimal. Mahasiswa dengan kreativitas sangat rendah belum memenuhi aspek kefasihan, fleksibilitas dan orisinalitas. (2) Hasil tes merancang soal berstandar PISA menunjukkan bahwa tingkat kreativitas mahasiswa terbagi menjadi 3 tingkatan yaitu, sangat rendah, sedang, dan tinggi. Mahasiswa dengan kreativitas sangat rendah belum memenuhi aspek kefasihan, fleksibilitas dan orisinalitas. Mahasiswa dengan kreativitas sedang telah dapat memenuhi kefasihan, fleksibilitas dan orisinalitas namun belum maksimal. Kemudian untuk mahasiswa dengan kreativitas tinggi, mahasiswa telah memenuhi aspek kefasihan, fleksibilitas dan orisinalitas dengan cukup baik.

Kata kunci: Kemampuan Berpikir Kreatif, Menyelesaikan Soal, Merancang Soal, PISA, Pola Bilangan.

ABSTRACT

Clara Wahyu Purba Laras. 2019. *The Analysis of Creative Thinking Ability Level of 6th Semester of Mathematics Education Program Students at Sanata Dharma University in Solving and Posing PISA Standard Problems in Number Patterns Topic. Thesis. Mathematics Education Study Program, Department of Mathematics and Sciences, Faculty of Teachers Training and Education, Sanata Dharma University, Yogyakarta.*

A teacher has a responsibility to improve the creativity of his students, therefore teachers are also required to have good creativity. This research aims to describe the creative thinking ability level of 6th semester of mathematics education program students at Sanata Dharma University in the academic year 2018/2019 in solving and posing PISA standard problem in Number Patterns Topic.

This research was qualitative descriptive research. The research subjects were 5 students of 6th semester mathematics education program students at Sanata Dharma University. This research was conducted in March until May 2019. The data was collected through the test results of the subject's work in solving and posing PISA standard problems in number patterns topic, and the results from the interviews with the instruments of data collection were the test questions, test posing sheet, discussion handouts, students interview sheet. The data were analyzed by constant comparative method for the problem-solving test and the data were also analyzed by Miles and Huberman method for the problem posing test. The scoring of the data analysis result used the adopted Bosch's creative thinking ability scoring table.

The research results showed two things. Firstly, all subjects in the level 1, 2 and 3 question groups were in the medium categories. In the level 4 and 5, the students creativity levels were divided into the very high, medium, and low categories. In the level 6, there were two creativity categories; low and very low categories. The students who had very high creativity level had fulfilled the fluency, flexibility, and originality aspects maximally. The students with the medium creativity level had fulfilled the fluency aspect, but not yet fulfilled the flexibility and originality aspects maximally. The students with the low creativity level had not fulfilled the fluency, flexibility, and originality aspects maximally. The students with the very low creative skill had not fulfilled the fluency, flexibility and originality aspects. Secondly, the analysis result in posing the PISA-standardized problems on the number pattern showed that there were 3 levels of the students' creativity; very low, medium, and high levels. The students with the very low creative thinking ability had not fulfilled the fluency, flexibility, and originality aspects. The students with the medium creativity creative thinking ability had fulfilled the fluency, flexibility and originality aspects, but not maximal yet. Meanwhile, the students with the high creative thinking ability had fulfilled the fluency, flexibility, and originality aspects well.

Keywords: *Creative Thinking Ability, Problem Solving, Problem Posing, PISA, Number Pattern.*