

ABSTRAK

Cicilia Novi Afriani. 2012. *Hubungan Kemampuan Spasial dengan Prestasi Belajar Matematika Siswa Pokok Bahasan Dimensi Tiga Kelas VIII Semester II SMP Joannes Bosco Yogyakarta Tahun Pelajaran 2011/2012. Skripsi. Yogyakarta: Program Studi Pendidikan Matematika Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma.*

Penelitian ini bertujuan untuk (1) mengetahui apakah ada hubungan antara kemampuan spasial dengan prestasi belajar matematika pokok bahasan dimensi tiga (2) mengetahui seberapa besar pengaruh kemampuan spasial dengan prestasi belajar matematika pokok bahasan dimensi tiga. Jenis penelitian merupakan penelitian korelasi dengan data kuantitatif.

Penelitian ini dilaksanakan di SMP Joannes Bosco Yogyakarta semester genap Tahun Ajaran 2011/2012, pada tanggal 5 Mei 2012 – 8 Mei 2012. Data berupa skor tes kemampuan spasial dan skor tes prestasi materi prisma dan limas. Dengan populasi siswa kelas VIII sebanyak 107 siswa. Penelitian ini menggunakan jenis data interval dan pengolahan data secara statistik Inferensial parametris, dengan menggunakan Uji Normalitas Kolmogorov-Smirnov, Regresi Linier, Uji Linieritas Sederhana, Uji Signifikan Regresi Sederhana, dan Uji Koefisien Korelasi Pearson.

Hasil penelitian ini dapat disimpulkan bahwa kemampuan spasial mempunyai hubungan yang positif tetapi tidak signifikan terhadap siswa dalam mengerjakan soal materi prisma dan limas, Besar pengaruh kemampuan spasial 0,7% dapat dituliskan dalam persamaan regresi linier dengan selang kepercayaan 95% dapat dirumuskan $Y = 33,365 + 0,185 X$

Kata kunci : kemampuan spasial, prisma dan limas, regresi linier

ABSTRACT

Cicilia Novi Afriani. 2012. *The Correlation Between Spatial Ability and Students' Mathematics Learning Achievement of Dimensi Tiga Subject in Grade VIII 2nd Semester of Joannes Bosco Junior High School Yogyakarta in Academic Year 2011/2012. Yogyakarta: Mathematics Education Study Program, Faculty of Teachers Training and Education, Sanata Dharma University.*

This research aims to (1) know whether spatial ability has a correlation with students' achievement in learning Mathematics of *Dimensi Tiga* subject (2) find out how much the effect of spatial ability on students' achievement in learning Mathematics of *Dimensi Tiga* subject is. This research belongs to the correlation research with the quantitative data.

The research was conducted on May 5th – 8th 2012 in Joannes Bosco Junior High School Yogyakarta in academic year 2011/2012. The data was in the form of spatial ability test score and achievement test score of prism and pyramid subject. The number of Eighth grade students' population was 107 students. This research made use of statistical interval data and data processor *Inferensial Parametris*, by using *Kolmogorov-Smirnov* Normality Test, Linier Regression, Simple Linearity Test, Simple Regression Significant Test, and *Pearson* Correlation Coefficient Test .

The result of this research was that the spatial ability had a positive correlation but not significant on the students' ability in doing test of prism and pyramid subject. The amount of spatial ability effect i.e.0,7%. The amount of spatial ability effect could be written in linear regression equation with reliance interval 95% . It could be formulated in $Y = 33,365 + 0,185 X$.

Keywords: *spatial ability, prism and pryramid, linear regression*