

## ABSTRAK

**Christina Novy Wijaya. 2016. Hubungan Antara Kemampuan Penalaran Matematis dan Disposisi Matematis Terhadap Prestasi belajar Matematika Siswa Materi Kubus dan Balok di Kelas VIII G SMP Pangudi Luhur 1 Yogyakarta Tahun Ajaran 2015/2016. Skripsi. Program Studi Pendidikan Matematika. Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam. Fakultas Keguruan dan Ilmu Pendidikan. Universitas Sanata Dharma Yogyakarta.**

Penelitian ini bertujuan untuk mengetahui (1) hubungan antara kemampuan penalaran matematis dengan prestasi belajar matematika siswa (2) hubungan antara disposisi matematis dengan prestasi belajar matematika siswa (3) hubungan secara bersamaan antara kemampuan penalaran matematis dan disposisi matematis dengan prestasi belajar matematika siswa.

Penelitian ini menggunakan metode deskriptif kuantitatif. Sampel penelitian ini adalah 32 siswa kelas VIII G SMP Pangudi Luhur 1 Yogyakarta tahun ajaran 2015/2016. Metode pengumpulan data menggunakan tes untuk kemampuan penalaran dan prestasi belajar sedangkan metode kuesioner dan observasi untuk mengukur disposisi matematis siswa.

Hasil penelitian ini dapat disimpulkan bahwa (1) ada hubungan antara kemampuan penalaran matematis dengan prestasi belajar matematika, hal ini terlihat pada koefisien korelasi yang diberikan yaitu sebesar 0,423 dengan regresi  $\hat{y} = 66,493 + 0,288x$ . Dengan demikian setiap kenaikan sebesar satu poin kemampuan penalaran, akan memberikan pengaruh prestasi belajar sebesar 0,288. Kontribusi yang diberikan oleh faktor kemampuan penalaran sebesar 17,89% terhadap prestasi belajar sedangkan sisanya sebesar 82,11% dipengaruhi oleh faktor lain. (2) tidak ada hubungan antara disposisi matematis dan prestasi belajar matematika, hal ini terlihat pada koefisien korelasi yang diberikan yaitu sebesar 0,017. Kontribusi yang diberikan oleh faktor disposisi matematis sebesar 0,0289% terhadap prestasi belajar sedangkan sisanya sebesar 99,711% dipengaruhi oleh faktor lain. (3) tidak terdapat hubungan secara bersamaan antara kemampuan penalaran matematis dan disposisi matematis dengan prestasi belajar matematika siswa.

Kata Kunci : kemampuan penalaran matematis, disposisi matematis dan prestasi belajar matematika

## ABSTRACT

**Christina Novy Wijaya. 2016. A Correlation between Mathematical Reasoning Skills and Mathematical Disposition and the Students' Mathematics Achievement of Cube and Rectangular Solid Material in VIII G of SMP Pangudi Luhur 1 Yogyakarta Academic Year 2015/2016. Thesis. Mathematics Education Study Program. Department of Mathematics Education and Natural Sciences. Faculty of Teachers Training and Education. Sanata Dharma University Yogyakarta.**

The purpose of this research are to know (1) the relation between mathematical reasoning skills and the student's mathematics achievement (2) the relation between mathematical disposition and the student's mathematics achievement (3) the relationship between mathematical reasoning skills and mathematical disposition and the student's mathematics achievement.

This research used a quantitative descriptive method. The subject of this research were 32 students of VIII G SMP Pangudi Luhur 1 Yogyakarta academic year 2015/2016. The researcher used a test as the methods of data collection for reasoning skills and learning achievement, while the questionnaires and observation methods were applied to measure the students' mathematical disposition.

The results of this research could be concluded that (1) there was a relation between reasoning skills and the student's mathematics achievement, it was seen the correlation coefficient were 0.423 with a regression  $\hat{y} = 66,493 + 0,288x$ . Therefore, every improvement for one mathematical reasoning point will influence to the coefficient of mathematics achievement for 0.288. The contribution that given by the reasoning skills factor were 17.89% for the learning achievement, while the rest were 82.11% that influenced by other factors. (2) there was no relation between mathematical disposition and the student's mathematics achievement., it was seen that the correlation coefficient were 0.017. The contribution that given by the mathematical disposition factor were 0.0289% toward learning achievement, while the rest were 99.711% that influenced by other factors. (3) there was no relationship between the mathematical reasoning skills and mathematical disposition and the students' mathematics achievement.

Keywords: mathematical reasoning skills, mathematical disposition and students' mathematics achievement