

ABSTRAK

Nadia Nur Akmaliah. “Model Pembelajaran *Reciprocal Teaching* Dengan Metode *Drill* Berbantu Aplikasi *Microsoft Math Solver* Untuk Meningkatkan Kemampuan Pemahaman Matematis Siswa”

Kemampuan pemahaman matematika bagian dari tuntutan pendidik dan peserta didik dalam menganalisis dan memecahkan berbagai masalah matematika sesuai kehidupan di sekitar siswa, namun sebagian siswa mengalami kendala dalam memahami konsep matematika dan perlu upaya peningkatan kemampuan pemahaman tersebut. Tujuan penelitian untuk meningkatkan kemampuan pemahaman matematika siswa melalui model pembelajaran *reciprocal teaching* dengan metode *drill* berbantu aplikasi *microsoft math solver*. Penelitian dilakukan di salah satu smp islam yang berada di Kabupaten Sumedang, melibatkan kelas VII-A dan VII-B. Metode penelitian kuasi eksperimen dengan desain Pretest-Posttest Control Design. Instrumen berupa observasi dan tes. Hasil penelitian Siswa selama proses pembelajaran matematika menggunakan model pembelajaran *reciprocal teaching* dengan metode *drill* berbantu aplikasi *math solver* terlihat kurang aktif dibuktikan dengan kurangnya media pembelajaran pada saat melaksanakan pembelajaran, Kemampuan pemahaman matematis siswa yang memperoleh pembelajaran matematika menggunakan model pembelajaran *reciprocal teaching* dengan metode *drill* berbantu aplikasi *math solver* tidak lebih baik dari siswa yang memperoleh pembelajaran konvensional. Berdasarkan data rata-rata *N-Gain* tes kemampuan pemahaman matematis siswa yang memperoleh pembelajaran matematika menggunakan model pembelajaran *reciprocal teaching* dengan metode *drill* berbantu aplikasi *math solver* dikatakan memiliki peningkatan yang rendah.

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Kata kunci : *Math Solver*, metode *drill*, Pemahaman Matematis, *reciporal teaching*.

ABSTRACT

Nadia Nur Akmaliah. “Reciprocal Teaching Learning Model With Drill Method Assisted by Microsoft Math Solver Application to Improve Students’ Mathematical Understanding Ability”

The ability to understand mathematics is part of the demands of educators and students in analyzing and solving various mathematical problems according to life around students, but some students experience obstacles in understanding mathematical concepts and need efforts to improve their understanding ability. The purpose of the study was to improve students’ mathematical understanding ability through the reciprocal teaching learning model with the drill method assisted by the Microsoft Math Solver application. The study was conducted in one of the Islamic junior high schools in Sumedang Regency, involving classes VII-A and VII-B. The quasi-experimental research method with the Pretest-Posttest Control Design design. The instruments were in the form of observation and tests. The results of the study Students during the mathematics learning process using the reciprocal teaching learning model with the drill method assisted by the Math Solver application seemed less active as evidenced by the lack of learning media when carrying out learning, The mathematical understanding ability of students who received mathematics learning using the reciprocal teaching learning model with the drill method assisted by the Math Solver application was not better than students who received conventional learning. Based on the average data of N-Gain test of mathematical comprehension ability of students who received mathematics learning using reciprocal teaching learning model with drill method assisted by math solver application is said to have low improvement.

Keywords: *Math Solver, drill method, Mathematical Understanding, reciprocal teaching.*