

**PENGARUH MODEL PEMBELAJARAN MISSOURI MATHEMATICS
PROJECT BERBANTUAN GEOGEBRA TERHADAP KEMAMPUAN
PEMECAHAN MASALAH MATEMATIKA SISWA KELAS VIII SMP
NEGERI 2 MENDOYO**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran MMP berbantuan *GeoGebra* terhadap kemampuan pemecahan masalah matematika siswa. Desain penelitian yang digunakan adalah *post-test only control grup design*. Populasi penelitian adalah siswa kelas VIII SMP Negeri 2 Mendoyo semester genap tahun ajaran 2019/2020, yaitu sebanyak 222 orang yang terdistribusi ke dalam 7 kelas. Data mengenai kemampuan pemecahan masalah matematika siswa dianalisis menggunakan uji Anava Satu Jalur dan uji lanjut dengan uji-*Scheffe* dengan taraf signifikan 5%. Hasil analisis menunjukkan bahwa: *pertama*, terdapat perbedaan kemampuan pemecahan masalah antara kelas eksperimen 1, kelas eksperimen 2 dan kelas kontrol; *kedua*, kemampuan pemecahan masalah matematika siswa kelas eksperimen 1 lebih tinggi daripada kelas kontrol ($F_{hitung} = 27,14636 > F' = 6,2$); *ketiga*, kemampuan pemecahan masalah matematika siswa kelas eksperimen 2 lebih tinggi daripada siswa kelas kontrol ($F_{hitung} = 7,3 > F' = 6,2$); *keempat*, kemampuan pemecahan masalah matematika siswa kelas eksperimen 2 lebih tinggi daripada siswa kelas kontrol ($F_{hitung} = 6,7465 > F' = 6,2$). Dapat disimpulkan bahwa terdapat pengaruh model pembelajaran MMP berbantuan *GeoGebra* terhadap kemampuan pemecahan masalah matematika siswa.

Kata Kunci: Kemampuan Pemecahan Masalah matematika, model pembelajaran *Missouri Mathematics Project*, *GeoGebra*.

ABSTRACT

This study was aimed to determine the effect of MMP learning model assisted by GeoGebra towards students' mathematics problem solving. The design of this study used post-test only control group design. The population of this study was eighth grade students at SMPN 2 Mendoyo in academic year 2019/2020 namely 222 people were distributed into 7 classes. The data of students' problem solving ability were analyzed using One Way Anava test and further test using Scheffe test with a significance level of 5%. The analysis showed that : first, there were differences in problem solving ability between the experimental class 1, experimental class 2 and the control class; second, the mathematical problem solving ability of experimental class 1 was higher than the control class ($F_{hitung} = 27,14636 > F' = 6,2$); third, the mathematical problem solving ability of experimental class 2 was higher than the control class ($F_{hitung} = 7,3 > F' = 6,2$); fourth, the mathematical problem solving ability of experimental class 2 was higher than the control class ($F_{hitung} = 6,7465 > F' = 6,2$). It can be concluded that there was an effect of MMP learning model assisted by GeoGebra towards students' mathematical problem solving ability.

Keyword : Missouri Mathematics Project learning model, mathematics problem solving ability, *GeoGebra*.

