

ABSTRAK

Febri Simbolon, NIM 4201111004 (2025), Pengaruh Model Pembelajaran Kooperatif Tipe DMR (*Discursus Multy Representation*) Terhadap Kemampuan Pemecahan Masalah Matematika Siswa Kelas VIII Yayasan Perguruan Gajah Mada Medan Timur

Penelitian ini bertujuan untuk mengetahui pengaruh signifikan model pembelajaran *Discursus Multy Representation* (DMR) terhadap kemampuan pemecahan masalah siswa kelas VIII di Yayasan Perguruan Gajah Mada Medan Timur. Sampel penelitian ini adalah siswa kelas VIII Yayasan Perguruan Gajah Mada Medan Timur Tahun Ajaran 2024/2025 yang berjumlah 32 siswa. Jenis penelitian ini yaitu Penelitian Pre-Eksperimen dengan desain *One Group Pretest-Posttes*. Penelitian kuantitatif yang menggunakan satu kelompok sample, dimana pengukuran dilakukan dua kali: sebelum (*pre-test*) dan sesudah (*post-test*) diberikan perlakuan. Hasil penelitian menunjukkan bahwa diperoleh nilai rata-rata *pre-test* sebesar 59,53 dan *post-test* sebesar 83,36. Hal ini menunjukkan bahwa penerapan model pembelajaran *Discursus Multy Representation* (DMR) memberikan dampak yang baik terhadap peningkatan kemampuan siswa dalam memecahkan masalah matematika. Selanjutnya dengan uji hipotesis tingkat signifikansi sebesar $0,001 < 0,05$ sehingga H_0 ditolak dan H_a diterima. Artinya ada pengaruh model pembelajaran *Discursus Multy Representation* (DMR) terhadap kemampuan pemecahan masalah matematis siswa kelas VIII Yayasan Perguruan Gajah Mada Medan Timur. Berdasarkan hasil tersebut, dapat disimpulkan bahwa model pembelajaran DMR efektif dalam meningkatkan kemampuan pemecahan masalah matematika siswa.

Kata kunci: kemampuan pemecahan masalah, pembelajaran kooperatif, *Discursus Multy Representation* (DMR)

ABSTRACT

Febri Simbolon, Student ID Number 4201111004 (2025), The Effect of the Discursus Multi-Representation (DMR) Cooperative Learning Model on the Mathematical Problem-Solving Skills of Eighth-Grade Students at the Yayasan Perguruan Gajah Mada Medan Timur

This study aims to determine the significant effect of the Discourse Multi Representation (DMR) learning model on the problem-solving abilities of eighth-grade students at the Yayasan Perguruan Gajah Mada Medan Timur. The sample of this study was 32 eighth-grade students at the Yayasan Perguruan Gajah Mada Medan Timur, in the 2024/2025 academic year. This type of research is Pre-Experimental Research with a One Group Pretest-Posttest design. Quantitative research using one sample group, where measurements are carried out twice: before (pre-test) and after (post-test) treatment is given. The results showed that the average pre-test score was 59.53 and the post-test was 83.36. This indicates that the application of the Discourse Multi Representation (DMR) learning model has a good impact on improving students' abilities in solving mathematical problems. Furthermore, with a hypothesis test of a significance level of $0.001 < 0.05$, H_0 is rejected and H_a is accepted. This means that the Discourse Multi-Representation (DMR) learning model has an effect on the mathematical problem-solving abilities of eighth-grade students at the Yayasan Perguruan Gajah Mada Medan Timur. Based on these results, it can be concluded that the DMR learning model is effective in improving students' mathematical problem-solving abilities.

Keywords: problem-solving ability, cooperative learning, Discursus Multi Representation (DMR)