

ABSTRAK

**EFEKTIVITAS MODEL PEMBELAJARAN *COLLABORATIVE
PROBLEM SOLVING* DITINJAU DARI KEMAMPUAN
PENALARAN MATEMATIS SISWA
(Studi pada Siswa Kelas VII SMP Negeri 1 Natar
Semester Genap Tahun Ajaran 2024/2025)**

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Penelitian eksperimen semu ini bertujuan untuk mengetahui efektivitas model pembelajaran *collaborative problem solving* ditinjau dari kemampuan penalaran matematis siswa. Populasi dalam penelitian ini adalah seluruh siswa kelas VII SMP Negeri 1 Natar tahun pelajaran 2024/2025 yang terdistribusi ke dalam 11 kelas. Sampel dalam penelitian ini adalah siswa kelas VII-C dan VII-F yang dipilih dengan teknik *cluster random sampling*. Data penelitian ini berupa data kuantitatif yang diperoleh dari tes kemampuan penalaran matematis materi bentuk aljabar. Temuannya adalah (1) Peningkatan kemampuan penalaran matematis siswa yang mengikuti model *collaborative problem solving* lebih tinggi daripada peningkatan kemampuan penalaran matematis siswa yang mengikuti model pembelajaran langsung; (2) Proporsi siswa yang mengikuti pembelajaran *collaborative problem solving* yang memiliki kemampuan penalaran matematis terkategori baik lebih dari 60%; (3) Rata-rata nilai *posttest* siswa kelas *collaborative problem solving* melebihi KKM. Dengan demikian, model pembelajaran *collaborative problem solving* efektif ditinjau dari kemampuan penalaran matematis siswa kelas VII SMP Negeri 1 Natar Semester Genap Tahun Pelajaran 2024/2025.

Kata Kunci: *collaborative problem solving*, efektif, kemampuan penalaran matematis

ABSTRACT

EFFECTIVENESS OF THE COLLABORATIVE PROBLEM SOLVING LEARNING MODEL IN TERMS OF STUDENTS' MATHEMATICAL REASONING SKILLS (Study on Students of Class VII SMP Negeri 1 Natar Even Semester of the 2024/2025 Academic Year)

By

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This quasi experimental research aims to determine the effectiveness of the collaborative problem solving learning model in terms of students' mathematical reasoning abilities. The population in this study consists of all VII grade students of SMP Negeri 1 Natar for the 2024/2025 academic year, distributed across 11 classes. The samples in this study are students from classes VII-C and VII-F, selected using cluster random sampling techniques. The data for this research is quantitative, obtained from tests measuring mathematical reasoning skills in algebra. The results of this study are (1) The increase in mathematical reasoning skills of students who follow the collaborative problem solving model is higher than the increase in mathematical reasoning skills of students who follow the direct learning model.; (2) The proportion of students participating in collaborative problem solving learning who have mathematical reasoning skills categorized as at least good is more than 60%; (3) Average posttest score of students who follow the collaborative problem solving model is exceeding the KKM . Thus, the collaborative problem solving learning model is effective in terms of the mathematical reasoning skills of VII grade students at SMP Negeri 1 Natar in the even semester of the 2024/2025 academic year.

Keywords: *collaborative problem solving, effective, mathematical reasoning skills*