

ABSTRAK

PENGARUH *PROBLEM BASED LEARNING* TERHADAP KEMAMPUAN BERPIKIR REFLEKTIF MATEMATIS DAN *SELF CONFIDENT* SISWA

(Studi pada Siswa Kelas VIII SMP Negeri 2 Trimurjo Semester Genap Tahun Pelajaran 2024/2025)

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Kesenjangan antara pentingnya memiliki kemampuan berpikir reflektif matematis dan *self confident* serta kenyataan bahwa kemampuan tersebut masih tergolong rendah pada siswa di Indonesia menjadi alasan utama dilaksanakannya penelitian ini. Model *Problem Based Learning* dipandang sebagai salah satu solusi pembelajaran yang relevan dalam mengatasi permasalahan tersebut dalam menghadapi tantangan pada abad ke-21. Penelitian ini bertujuan untuk mengetahui pengaruh model *Problem Based Learning* (PBL) terhadap kemampuan berpikir reflektif matematis dan *self confident* siswa. Populasi penelitian yaitu seluruh siswa kelas VIII SMP Negeri 2 Trimurjo semester genap tahun ajaran 2024/2025 yang terdistribusi dalam 6 kelas. Sampel penelitian adalah siswa kelas VIII E dan F yang dipilih dengan teknik *purposive sampling*. Penelitian ini menggunakan desain *pretest-posttest control group design* dengan VIII E sebagai kelas eksperimen dan VIII F sebagai kelas kontrol. Data penelitian ini bersifat kuantitatif, data kemampuan berpikir reflektif matematis siswa diperoleh melalui tes, sedangkan data *self confident* diperoleh melalui angket *self confident*. Analisis data penelitian yang digunakan adalah uji-t, rata-rata peningkatan kemampuan berpikir reflektif matematis siswa pada *Problem Based Learning* (PBL) lebih tinggi daripada pembelajaran konvensional, namun tidak ada perbedaan rata-rata *self confident* siswa pada *Problem Based Learning* (PBL) dan pembelajaran konvensional. Kesimpulan dari penelitian ini adalah model *Problem Based Learning* (PBL) memiliki pengaruh positif terhadap kemampuan berpikir reflektif matematis siswa, namun tidak berpengaruh terhadap *self confident* siswa.

Kata kunci: berpikir reflektif, *problem based learning*, *self confident*

ABSTRACT

THE EFFECT OF PROBLEM BASED LEARNING ON STUDENTS' MATHEMATICAL REFLECTIVE THINKING SKILLS AND SELF CONFIDENT

**(A Study of Eighth Grade Students at SMP Negeri 2 Trimurjo
Even Semester of the 2024/2025 Academic Year)**

By

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The gap between the importance of having mathematical reflective thinking skills and self-confidence and the reality that these skills are still relatively low among students in Indonesia is the main reason for conducting this study. The Problem-Based Learning model is seen as one of the relevant learning solutions in overcoming these problems in facing the challenges of the 21st century. This study aims to determine the effect of Problem Based Learning (PBL) model on students' mathematical reflective thinking skills and self confident. The research population consists of all eighth-grade students at SMP Negeri 2 Trimurjo in the even semester of the 2024/2025 academic year, distributed across six classes. The research sample consists of students from classes VIII E and F, selected using purposive sampling. This study used a pretest-posttest control group design with class VIII E as the experimental class and class VIII F as the control class. The research data was quantitative in nature. Data on students' mathematical reflective thinking skills was obtained through tests, while data on self confident was obtained through a self confident questionnaire. The data analysis used was the t-test, and the average increase in students' mathematical reflective thinking skills in Problem Based Learning (PBL) was higher than in conventional learning, but there was no difference in the average self confident of students in Problem Based Learning (PBL) and conventional learning. The conclusion of this study is that the Problem Based Learning (PBL) model has a positive effect on students' mathematical reflective thinking skills, but it does not affect students' self confident.

Keywords: *reflective thinking, problem based learning, self confident.*