

ABSTRAK

PENGARUH MODEL *PROBLEM BASED LEARNING* TERHADAP KEMAMPUAN BERPIKIR KRITIS MATEMATIS SISWA (Studi pada Siswa Kelas IX SMP Negeri 22 Bandar Lampung Semester Ganjil Tahun Ajaran 2025/2026)

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Tantangan abad ke-21 menekankan pentingnya kemampuan berpikir kritis yang dapat dikembangkan melalui kegiatan pembelajaran, khususnya pada mata pelajaran matematika. Penelitian ini bertujuan untuk mengetahui pengaruh model *Problem Based Learning* terhadap kemampuan berpikir kritis matematis siswa. Penelitian ini merupakan penelitian kuantitatif dengan jenis kuasi eksperimen dan menggunakan desain yaitu *posttest only control group design*. Populasi pada penelitian ini adalah 253 siswa kelas IX SMP Negeri 22 Bandar Lampung yang terdistribusi ke dalam 8 kelas. Melalui teknik *cluster random sampling*, terpilih kelas IX-8 sebagai kelas eksperimen dan kelas IX-6 sebagai kelas kontrol. Hasil analisis statistik inferensial menggunakan uji *Mann-Whitney U* menunjukkan bahwa kemampuan berpikir kritis matematis siswa yang mengikuti model *Problem Based Learning* lebih tinggi dibandingkan kemampuan berpikir kritis matematis siswa yang mengikuti pembelajaran model konvensional. Oleh karena itu, dapat disimpulkan bahwa penerapan model *Problem Based Learning* berpengaruh terhadap kemampuan berpikir kritis matematis siswa.

Kata kunci: kemampuan berpikir kritis, pengaruh, *Problem Based Learning*

ABSTRACT

THE EFFECT OF PROBLEM BASED LEARNING MODEL ON STUDENT'S MATHEMATICAL CRITICAL THINKING SKILLS (A Study on 9th grade Students of SMPN 22 Bandar Lampung in the odd Semester of 2025/2026 Academic Year)

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The 21st century challenges emphasize the importance of critical thinking skills that can be developed through learning activities, especially in mathematics. This study aims to determine the effect of the Problem Based Learning model on students' mathematical critical thinking skills. This study is a quantitative study with a quasi experimental design and uses a posttest only control group design. The population in this study consisted of 253 ninth-grade students at SMP Negeri 22 Bandar Lampung, distributed across 8 classes. Through cluster random sampling, class IX-8 was selected as the experimental class and class IX-6 as the control class. The results of inferential statistical analysis using the Mann-Whitney U test showed that the mathematical critical thinking skills of students who participated in the Problem Based Learning model were higher than the mathematical critical thinking of students who participated in conventional learning. Therefore, it can be concluded that the application of the Problem Based Learning model has an effect on students' mathematical critical thinking skills.

Keywords: *critical thinking skills, effect, Problem Based Learning*