

## ABSTRAK

### **PENGARUH MODEL *PROBLEM BASED LEARNING* TERHADAP KEMAMPUAN PEMECAHAN MASALAH MATEMATIS SISWA (Studi pada Siswa Kelas VIII SMP Negeri 22 Bandar Lampung Semester Genap Tahun Pelajaran 2023/2024)**

Oleh

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Penelitian ini bertujuan untuk mengetahui pengaruh model *problem based learning* terhadap kemampuan pemecahan masalah matematis siswa. Populasinya adalah seluruh siswa kelas VIII SMP Negeri 22 Bandar Lampung semester genap tahun pelajaran 2023/2024 yang terdistribusi dalam sepuluh kelas yaitu VIII-1 sampai VIII-10. Pengambilan sampel dilakukan dengan teknik *cluster random sampling* dan terpilih siswa kelas VIII-6 sebanyak 32 siswa sebagai kelas eksperimen dan kelas VIII-10 sebanyak 31 siswa sebagai kelas kontrol. Desain penelitian yang digunakan adalah *pretest-posttest control group design*. Data penelitian ini berupa data kuantitatif yang diperoleh dari tes kemampuan pemecahan masalah matematis siswa. Data dianalisis menggunakan uji statistik yaitu uji-*t*. Berdasarkan hasil analisis data, diperoleh bahwa peningkatan kemampuan pemecahan masalah matematis siswa yang mengikuti model *problem based learning* lebih tinggi daripada kemampuan pemecahan masalah matematis siswa yang mengikuti pembelajaran konvensional. Dengan demikian, model *problem based learning* berpengaruh terhadap kemampuan pemecahan masalah matematis siswa.

**Kata kunci:** kemampuan pemecahan masalah matematis, pengaruh, *problem based learning*

## **ABSTRACT**

### **THE EFFECT OF THE PROBLEM BASED LEARNING MODEL ON STUDENTS MATHEMATICAL PROBLEM SOLVING ABILITY (Study on Grade VIII Students of SMP Negeri 22 Bandar Lampung Even Semester of the 2023/2024 Academic Year)**

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*This research aims to determine the effect of the problem based learning model on improving students' mathematical problem-solving abilities. The population in this study was all students in class VIII of SMP Negeri 22 Bandar Lampung, even semester of the 2023/2024 academic year, distributed in ten classes, namely VIII-1 to VIII-10, heterogeneously. Sampling was carried out using a cluster random sampling technique, and 32 students in class VIII-6 were selected as the experimental class and 31 students in class VIII-10 were selected as the control class. The research design used was a pretest-posttest control group design. This research data is in the form of quantitative data obtained from tests of students' mathematical problem-solving abilities. Data analysis uses a statistical test, namely the t-test. Based on the results of research, it was found that the increase in students' mathematical problem-solving abilities in the experimental class was higher than the increase in students' mathematical problem-solving abilities in the control class. Based on this, it can be concluded that the problem based learning model has an effect on improving students' mathematical problem-solving abilities.*

**Keywords:** *influence, mathematical problem-solving abilities, problem based learning*