

## ABSTRAK

**Martini Suraji. 2024.** Penerapan Model *Problem Based Learning* Untuk Peningkatkan Kemampuan Berpikir Kreatif Matematis. Penelitian Ini dibawah bimbingan bapak **Ahmad Afandi, S.Pd., M.Pd** dan Bapak **Dr. H. In, Hi. Abdullah., S.Pd., M.Si.**

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Penelitian ini bertujuan untuk mengetahui 1) kemampuan berpikir kreatif matematis siswa kelas IX-1 pada materi sistem persamaan linear dua variabel melalui *problem based learning*, 2) penerapan model *problem based learning* untuk kemampuan berpikir kreatif matematis. Penelitian ini menggunakan desain penelitian *One Group pretest-posttest Desing* dengan satu kelompok sampel yaitu kelompok eksperimen. Sampel penelitian ini adalah siswa kelas IX-1 SMP Negeri 4 Kota Ternate yang berjumlah 34 siswa. teknik pengambilan data pada penelitian ini menggunakan instrumen tes berupa soal uraian sebanyak 2 nomor. Data yang diperoleh analisis secara deskriptif dan inferensial

Hasil penelitian ini diperoleh: 1) kemampuan berpikir kreatif matematis siswa IX-1 SMP Negeri 4 Kota Ternate pada materi sistem persamaan linear dua variabel setelah diterapkan model *problem based learning* dengan kategori tinggi 20 siswa, sedang 14 siswa dan nilai N-Gain sebesar 0,69.2) terdapat peningkatan kemampuan berpikir kreatif matematis siswa di kelas IX-1 SMP Negeri 4 Kota Ternate yang diterapkan model *Problem Based Learning*.

**Kata Kunci:** Kemampuan Berpikir Kreatif Matematis Siswa. Model *Problem Based Learning*, Materi Sistem Persamaan Linear Dua Variabel.

## ABSTRACT

**Martini Suraji. 2024.** The application of the Problem Based Learning model to improve creative mathematical thinking skills in this research was guided by Mr **Ahmad Afandi, S.Pd., M.Pd** and Mr **Dr. H. In, Hi. Abdullah., S.Pd., M.Si.**

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This research aims to 1) the creative mathematical thinking abilities of class IX-1 students on the material of the two-variable linear respiratory system through Problem Based Learning, 2) the application of Problem Based Learning models to improve mathematical creative thinking abilities. This research uses a One Group Pretest-Posttest Design with one sample group, namely the sample for this research was students. In class IX-1 of SMP Negeri 4 Ternate City, totaling 34 students. The data collection technique in this research used a test instrument in the form of 2 numbered description questions. The data obtained was analyzed descriptively and inferentially.

The results of this research obtained: 1) the mathematical creative thinking ability of IX-1 students at SMP Negeri 4 Ternate City on the material of two-variable linear equation systems after applying the problem based learning model with a high category of 20 students and an N-Gain value of 0.69. 2 ) there is an increase in students' mathematical creative thinking abilities in class IX-1 of SMP Negeri 4 Ternate City where the problem based learning model is applied.

**Kata Kunci:** Students' creative mathematical thinking abilities, problem based learning models, material on systems of linear equations in two variables.