

ABSTRAK

Alisha Ismin, 2024. “Keefektifan Model Pembelajaran *Problem Solving* Ditinjau Dari Kemampuan Berpikir Kritis Matematis Siswa Pada Materi Sistem Persamaan Linear Dua Variabel” (Suatu Penelitian Pada Siswa Kelas VIII SMP Nasional Banau Kota Ternate Tahun Ajaran 2023/2024) Di Bawah Bimbingan **Ahmad Afandi, S.Pd., M.Pd dan Dr. Joko Suratno, S.Pd.,M.Pd.Si**

Penelitian eksperimen ini bertujuan untuk mengetahui: 1) Kemampuan berpikir kritis matematis siswa setelah diterapkan model *Problem Solving* pada materi sistem persamaan linier dua variabel. 2) Keefektifan model pembelajaran *problem solving* ditinjau dari kemampuan berpikir kritis matematis siswa kelas VIII SMP Nasional Banau Kota Ternate pada materi sistem persamaan linear dua variabel. Desain penelitian ini menggunakan *One-Shot Case Studi*. Sampel pada penelitian ini yaitu siswa kelas VIII SMP Nasional Banau Kota Ternate Tahun Ajaran 2023/2024. Teknik pengumpulan data menggunakan instrumen tes Sedangkan teknik analisis data menggunakan analisis deskriptif dan analisis inferensial. Hasil penelitian ini menunjukkan bahwa 1) Kemampuan berpikir kritis matematis siswa kelas VIII SMP Nasional Banau Kota Ternate setelah diterapkan model pembelajaran *problem solving* menunjukkan terdapat 18 siswa kualifikasi tinggi dengan persentase 81,82%, 2 siswa kualifikasi sedang dengan persentase 9,09% dan 2 siswa kualifikasi rendah dengan persentase 9,09%. 2) Model pembelajaran *problem solving* efektif ditinjau dari kemampuan berpikir kritis matematis siswa kelas VIII SMP Nasional Banau Kota Ternate pada materi sistem persamaan linear dua variabel.

Kata kunci: *Problem Solving, berpikir kritis matematis siswa, sistem persamaan linier dua variabel.*

ABSTRACT

Alisha Ismin, 2024. "The Effectiveness of the Problem Solving Learning Model Judging from the Students' Mathematical Critical Thinking Ability on the Material of Systems of Linear Equations in Two Variables" (A Research on Class VIII Students of Banau National Middle School, Ternate City, Academic Year 2023/2024) Under the Guidance of **Ahmad Afandi, S.Pd., M.Pd dan Dr. Joko Suratno, S.Pd.,M.Pd.Si**

This experimental research aims to determine: 1) Students' mathematical critical thinking abilities after applying the problem solving model to two-variable linear equation systems. 2) The effectiveness of the problem solving learning model is seen from the mathematical critical thinking abilities of class VIII students at Banau National Middle School, Ternate City in the material of two-variable linear equation systems. This research design uses a one-shot case study. The sample in this research was class viii students at banau national middle school, ternate city, academic year 2023/2024. The data collection technique uses test instruments. Meanwhile, the data analysis technique uses descriptive analysis and inferential analysis. The results of this research show that 1) The mathematical critical thinking ability of class VIII students at Banau National Middle School, Ternate City after applying the problem solving learning model shows that there are 18 students with high qualifications with a percentage of 81.82%, 2 students with medium qualifications with a percentage of 9.09% and 2 low qualification students with a percentage of 9.09%. 2) The problem solving learning model is effective in terms of the mathematical critical thinking abilities of class VIII students at Banau National Middle School, Ternate City on two-variable linear equation systems.

Keywords: *Problem Solving, students' critical mathematical thinking, system of linear equations in two variables.*