

ABSTRAK

Deviyanti Taher 2024. “Peningkatan Kemampuan Pemecahan Masalah Matematis Siswa Dalam Menyelesaikan Soal Cerita Sistem Persamaan Linear Dua Variabel Melalui Model *Problem Based Learning* (PBL)” (Suatu Penelitian Pada Siswa Kelas VIII SMP N 3 Tidore Kepulauan) Di Bawah Bimbingan **Dr. Ida Kurnia Waliyanti S.Si.,M.Sc dan Nurma Angkotasan S.Pd., M.Pd.**

Penelitian ini bertujuan untuk mengetahui 1) Kemampuan pemecahan masalah matematis siswa setelah diterapkan model *problem based learning* pada materi sistem persamaan linear dua variabel. 2) Peningkatan kemampuan pemecahan masalah matematis siswa setelah diterapkan model *problem based learning* pada materi sistem persamaan linear dua variabel. 3) Penerapan model *problem based learning* dapat meningkatkan kemampuan pemecahan masalah matematis siswa pada materi sistem persamaan linear dua variabel

Desain penelitian ini menggunakan *quasi eksperimen*. Sampel pada penelitian ini yaitu siswa kelas VIII SMP N 3 Kota Tidore Kepulauan Tahun Ajaran 2022/2023. Teknik pengumpulan data menggunakan instrumen tes, yaitu *Pre-test* dan *Post-test*. Sedangkan teknik analisis data menggunakan analisis deskriptif dan analisis inferensial.

Hasil penelitian ini menunjukkan bahwa 1) kemampuan pemecahan masalah matematis siswa pada materi sistem persamaan linear dua variabel sebelum penerapan model *problem based learning* sebesar 39,91 dan sesudah penerapan model *problem based learning* sebesar 58,73, 2) Terdapat peningkatan kemampuan pemecahan masalah matematis siswa setelah diterapkan model pembelajaran *problem based learning* pada materi sistem persamaan linear dua variabel, dan 3) Peningkatan kemampuan pemecahan masalah matematis siswa setelah diterapkan model pembelajaran *problem based learning* pada materi sistem persamaan linear dua variabel dalam kategori sedang

Kata kunci: *Problem Based Learning, Kemampuan Pemecahan Masalah, Sistem Persamaan Linear Dua Variabel*

ABSTRACT

Deviyanti Taher 2024. "Improving Students' Mathematical Problem Solving Ability in Solving Two-Variable Linear Equation System Story Problems Through Problem Based Learning (PBL) " (A Research on Class VIII Students of SMP N 3 Tidore Islands) Under the Guidance of **Dr. Ida Kurnia Waliyanti S.Si.,M.Sc and Nurma Angkotasari S.Pd., M.Pd.**

This study aims to determine 1) Students' mathematical problem solving ability after applying the problem-based learning model on the material of the system of linear equations of two variables. 2) The improvement of students' mathematical problem solving ability after applying the problem-based learning model on the material of the system of linear equations of two variables. 3) The application of problem-based learning model can improve students' mathematical problem solving ability on the material of two-variable linear equation system.

This research design uses quasi experiment. The sample in this study were 8th grade students of SMP N 3 Kota Tidore Islands in the 2022/2023 academic year. Data collection techniques using test instruments, namely Pre-test and Post-test. While data analysis techniques use descriptive analysis and inferential analysis.

The results of this study indicate that 1) students' mathematical problem solving ability on the material of the system of linear equations of two variables before the application of the problem-based learning model of 39.91 and after the application of the problem-based learning model of 58.73, 2) There is an increase in students' mathematical problem solving ability after applying the problem-based learning model on the material of the system of linear equations of two variables, and 3) The increase in students' mathematical problem solving ability after applying the problem-based learning model on the material of the system of linear equations of two variables in the medium category.

Kata kunci: *Problem Based Learning, Problem Solving Ability, Linear Equation System Two Variables*