ABSTRAK

NUR HIDAYAH BR. KARO, NIM 8236171005 (2025). Pengaruh Model Pembelajaran *Problem Based Learning* (PBL) Terhadap Kemampuan Pemecahan Masalah Dan Disposisi Matematika Siswa.

Penelitian ini bertujuan untuk menganalisis (1) pengaruh model pembelajaran Problem Based Learning (PBL) terhadap kemampuan pemecahan masalah, (2) pengaruh model pembelajaran Problem Based Learning (PBL) terhadap disposisi matematis siswa, (3) interaksi antara model pembelajaran dan kemampuan awal matematika terhadap kemampuan pemecahan masalah matematis siswa, dan (4) interaksi antara model pembelajaran dan kemampuan awal matematika terhadap disposisi matematis siswa. Jenis penelitian ini menggunakan pendekatan kuasi eksperimen. Populasi yang diambil dalam penelitian ini adalah siswa kelas X SMK Swasta Penerbangan Pulau Berayan Darat Medan dan sampel dalam penelitian ini yang terpilih adalah kelas X-AP1 sebagai kelas eksperimen yang berjumlah 30 siswa dan kelas X-AP2 sebagai kelas kontrol yang berjumlah 30 siswa. Instrumen yang digunakan terdiri dari (1) Tes kemampuan pemecahan masalah, (2) Angket disposisi matematis siswa. Analisis data dilakukan dengan ANAVA dua jalur. Hasil penelitian ini menunjukkan bahwa (1) terdapat pengaruh model pembelajaran PBL terhadap kemampuan pemecahan masalah siswa (2) terdapat pengaruh model pembelajaran PBL terhadap disposisi matematis siswa, (3) tidak terdapat interaksi antara model pembelajaran dan kemampuan awal matematika terhadap kemampuan pemecahan masalah matematis siswa, (4) tidak terdapat interaksi antara model pembelajaran dan kemampuan awal matematika terhadap disposisi matematis siswa. Hal ini mengindikasikan bahwa model PBL memberikan pengaruh secara independen tanpa dipengaruhi oleh KAM siswa. Temuan ini menunjukkan bahwa model PBL dapat secara efektif meningkatkan kemampuan pemecahan masalah dan disposisi matematis siswa, terlepas dari tingkat kemampuan awal mereka, serta memberikan pengalaman belajar yang lebih menarik dan bermakna dalam pembelajaran matematika.

Kata Kunci: *Problem Based Learning*, Kemampuan Pemecahan Masalah, Disposisi Matematis, Pembelajaran Matematika.

ABSTRACT

NUR HIDAYAH BR. KARO, NIM 8236171005 (2025). The Effect of *Problem Based Learning* (PBL) Learning Model on Problem Solving Ability and Mathematics Disposition.

This study aims to analyze (1) the effect of Problem Based Learning (PBL) learning model on problem solving ability, (2) the effect of Problem Based Learning (PBL) learning model on students' mathematical disposition, (3) the interaction between the learning model and mathematical early ability on students' mathematical problem solving ability, and (4) the interaction between learning model and mathematical early ability on the mathematical disposition of students. This type of research uses a quasi-experimental approach. The population taken in this study was class X students of Private Vocational School Aviation Pulau Berayan Darat Medan and the sample in this study that was selected was class X-AP1 as an experimental class totaling 30 students and class X-AP2 as a control class totaling 30 students. The instruments used consisted of (1) Problem solving ability test, (2) Mathematical disposition questionnaire of students. Data analysis was performed with two-way ANAVA. The results of this study show that (1) there is an influence of the PBL learning model on students' problem solving ability, (2) there is an influence of the PBL learning model on students' mathematical disposition, (3) there is no interaction between the learning model and mathematical early ability on students' mathematical problem solving ability of students, (4) there is no interaction between the learning model and mathematical early ability on students' mathematical disposition of students. This indicates that the PBL model provides an influence independently without being influenced by the student's KAM. These findings suggest that the PBL model can effectively improve students' problem solving abilities and mathematical disposition, regardless of their early ability level, as well as provide a more engaging and meaningful learning experience in mathematics learning.

Keywords: *Problem Based Learning*, Problem Solving Ability, Mathematical Disposition, Mathematics Learning.