

## ABSTRAK

**VERAWATI. Perbedaan Peningkatan Kemampuan Pemecahan Masalah Matematis dan Motivasi Belajar Siswa Yang diberi Model *Problem-Based Learning* (PBL) dan Penemuan Terbimbing di SMP Negeri 1 Pujud.** Tesis. Medan: Program Studi Pendidikan Matematika Pasca Sarja Universitas Negeri Medan, 2018.

Penelitian ini bertujuan untuk mengetahui: (1) perbedaan peningkatan kemampuan pemecahan masalah matematis antara siswa yang diberi pembelajaran *Problem Based Learning* (PBL) dan pembelajaran penemuan terbimbing, (2) perbedaan peningkatan motivasi belajar siswa yang diberi pembelajaran *Problem Based Learning* (PBL) dan pembelajaran penemuan terbimbing, (3) proses jawaban siswa yang diberi pembelajaran *Problem Based Learning* (PBL) dan pembelajaran penemuan terbimbing. Penelitian ini merupakan penelitian eksperimen semu. Populasi penelitian ini adalah seluruh siswa kelas VII SMP Negeri 1 Pujud dan sampel penelitian ini adalah siswa kelas VII 2 dan VII 4, masing-masing berjumlah 30 siswa. Instrumen yang digunakan terdiri dari : (1) Tes kemampuan pemecahan masalah matematis dan (2) Angket motivasi belajar siswa. Analisis data dilakukan dengan analisis kovarian (ANACOVA) Hasil penelitian menunjukkan bahwa (1) Terdapat perbedaan peningkatan kemampuan pemecahan masalah matematis antara siswa yang diberi pembelajaran *Problem Based Learning* (PBL) lebih baik dari pada siswa yang diberi pembelajaran penemuan terbimbing, (2) Terdapat perbedaan peningkatan motivasi belajar antara siswa yang diberi pembelajaran *Problem Based Learning* (PBL) lebih baik dari pada siswa yang diberi pembelajaran Penemuan Terbimbing, dan (3) Proses penyelesaian jawaban siswa dengan kemampuan pemecahan masalah matematis yang diberi pembelajaran *Problem Based Learning* (PBL) lebih baik karena hampir semua siswa bisa menyelesaikan soal dengan memenuhi rubrik penskoran kemampuan pemecahan masalah matematis dibandingkan dengan pembelajaran Penemuan Terbimbing.

**Kata Kunci:** *Problem Based Learning* (PBL), Penemuan Terbimbing, Kemampuan Pemecahan Masalah Matematis, dan Motivasi Belajar.

## ABSTRACT

**VERAWATI. The Difference in The Improvement of Problem Solving Ability and Students' Motivation Who Taught By Problem Based Learning and Discovery Learning in SMP N 1 Pujud.** Thesis. Medan: Program Study of Mathematics Education Post Graduate State University of Medan, 2018.

This study aims to know : (1) The difference in the improvement of mathematics problem solving ability between students taught by Problem Based Learning (PBL) and Discovery Learning, (2) The difference in the improvement of students motivation taught by Problem Based Learning (PBL) and Discovery Learning, (3) The process of students answer taught by Problem Based Learning (PBL) and Discovery Learning. This study was a quasi experiment. The population of this study was the whole students in 1st grade of Junior High School in Pujud and the sample of this study students of VII 2 and VII 4, each of the 30 students. The instrument used is composed of : (1) Test mathematics problem solving ability, and (2) Questionnaire student learning motivation. Data analysis was done with the analysis of covarian (ANACOVA). The result of this study showed that (1) there was a difference in the improvement of mathematics problem solving ability between students taught by Problem Based Learning (PBL) with students taught by Discovery Learning, (2) there was a difference in the improvement of students motivation taught by Problem Based Learning with students taught by Discovery Learning, and (3) the process of students answer by mathematics problem solving ability that taught by Problem Based Learning (PBL) was better because almost students can solve the question with the scoring rubrics of mathematics problem solving ability than Discovery Learning.

**Keywords: Problem Based Learning (PBL), Discovery Learning, Mathematics Problem Solving Ability, and Learning Motivation.**

