**ABSTRAK**

**PENGARUH MODEL PEMBELAJARAN *PROBLEM BASED LEARNING***

**(PBL) TERHADAP MOTIVASI BELAJAR DAN KEMAMPUAN**

**PEMECAHAN MASALAH MATEMATIS SISWA DI SMP**

**ALWASHLIYAH 4 MEDAN T.A 2018/2019**

**RAJA NURHAFNI**

**NPM 151114042**

Motivasi belajar merupakan proses yang memberi semangat belajar, dan kegigihan perilaku. Motivasi belajar siswa sangat rendah terutama belajar matematika. Kemampuan pemecahan masalah matematis adalah kemampuan siswa dalam memahami masalah. Meskipun soal berhubungan dengan kehidupan sehari-hari tetapi banyak siswa yang belum mampu menyelesaikan soal tersebut. Pada latar belakang menunjukkan bahwa motivasi belajar dan kemampuan pemecahan masalah siswa masih rendah. Sehingga peneliti terinspirasi untuk mengganti model pembelajaran menggunakan model *Problem based learning*.

Rumusan masalah dalam penelitian ini adalah : apakah terdapat pengaruh model *Problem based learning* terhadap motivasi belajar dan kemampuan pemecahan masalah matematis siswa?

Penelitian ini adalah penelitian eksperimen dengan jenis penelitiannya *quasi eksperimen* dengan model penelitian *Pretest Posttest Control Group Design.* Sampel penelitian sebanyak dua kelas dengan teknik *simple random sampling.* Instrumen tes yang digunakan untuk mengetahui motivasi belajar berupa angket, sedangkan untuk kemampuan pemecahan masalah menggunakan tes berbentuk uraian.

Hasil analisis data pada *pretest*  kelas eksperimen diperoleh rata-rata motivasi belajar siswa sebesar 72,56 , kemampuan pemecahan masalah sebesar 39,73. Dan pada kelas kontrol diperoleh rata-rata motivasi belajar sebesar 68,72, kemampuan pemecahan masalah sebesar 38,12. Sedangkan data *posttest* kelas eksperimen diperoleh rata-rata motivasi belajar siswa sebesar 84,44, kemampuan pemecahan masalah sebesar 73,08. Dan pada kelas kontrol diperoleh rata-rata motivasi belajar sebesar 74,44, kemampuan pemecahan masalah sebesar 67,2. Berdasarkan uji yang dilakukan, untuk motivasi belajar diperoleh $t\_{hitung} >$ $t\_{tabel}$ yaitu 8,26 $>$ 2,012, dan untuk kemampuan pemecahan masalah diperoleh $t\_{hitung} >$ $t\_{tabel}$ yaitu 2,782 $>$ 2,012.

Kesimpulan yang diperoleh dari penelitian ini adalah terdapat pengaruh model *Problem Based Learning* terhadap motivasi belajar dan kemampuan pemecahan masalah matematis siswa di SMP Al-Washliyah 4 Medan. Sejalan dengan kesimpulan tersebut peneliti menyarankan kepada guru matematika agar menggunakan model pembelajaran yang sesuai dengan materi pembelajaran yang diajarkan.

**ABSTRACT**

**INFLUENCE OF PROBLEM BASED LEARNING MODEL (PBL)**

**THE MOTIVATION TO LEARN AND ABILITY STUDENT**

 **MATHEMATICAL PROBLEM SOLVING IN SMP**

**ALWASHLIYAH 4 MEDAN T. A 2018/2019**

**RAJA NURHAFNI**

**NPM 151114042**

Learning motivation is a process that gives the spirit of learning, and the persistence of behavior. Student learning motivation is very low especially learning mathematics. Mathematical problem solving skills are the students ' ability to understand problems. Although it relates to daily life but many students who have not been able to solve the problem. In the background shows that the motivation to learn and problem solving skills of students is still low. So researchers are inspired to replace learning models using the Problem based learning model.

The problems in this research are: are there any influence on the Problem based learning model of learning motivation and ability to solve students mathematical problems?

This research is experimental research with the kind of research quasi experiment with Pretest Posttest Control Group Design. Research samples as many as two classes with simple random sampling technique. Test instruments used to determine the motivation to learn in the form of poll, while for problem-solving skills using a test-shaped description.

Data analysis results on experimental class pretests obtained the average student learning motivation of 72.56, problem solving capabilities of 39.73. And on the control class acquired an average learning motivation of 68.72, problem solving capabilities of 38.12. While the experimental class posttest data was obtained an average student learning motivation of 84.44, problem solving capabilities amounted to 73.08. And on the control class acquired an average learning motivation of 74.44, problem solving capabilities of 67.2. Based on the test conducted, for the motivation to learn obtained $t\_{hitung} >$ $t\_{tabel}$ which is 8.26 > 2.012, and for problem solving capability was obtained $t\_{hitung} >$ $t\_{tabel}$ which is 2.782 > 2.012.

The conclusion gained from this study was the influence of the Problem Based Learning model on the motivation to learn and the ability to troubleshoot students mathematically in Al-Washliyah SMP 4 Medan. In line with the conclusion researchers suggested to the mathematics teacher to use a learning model that corresponds to the learning materials taught.