

ABSTRAK

Putri Zamsari, NIM 4183311006 (2022). Pengaruh Model *Problem Based Learning* Terhadap Kemampuan Pemecahan Masalah Siswa SMP Swasta Imelda Medan.

Berdasarkan hasil observasi di SMP Swasta Imelda Medan diperoleh informasi bahwa siswa kurang diberi kesempatan untuk mengembangkan kemampuan pemecahan masalahnya dan dalam pembelajaran di kelas siswa tidak diajarkan dengan model pembelajaran. Akibatnya siswa tidak dapat mengekspresikan pemikirannya. Penelitian ini bertujuan untuk mengetahui pengaruh model *problem based learning* terhadap kemampuan pemecahan masalah siswa SMP Swasta Imelda Medan. Penelitian ini dilaksanakan di SMP Swasta Imelda Medan pada semester ganjil tahun ajaran 2022/2023. Subjek pada penelitian ini adalah siswa kelas VIII SMP Swasta Imelda Medan. Sampel penelitian ini diambil dengan metode *cluster random sampling*, dengan desain penelitian *post-test only control group*. Kelas eksperimen menggunakan model *problem based learning* sedangkan kelas kontrol menggunakan pembelajaran biasa dan kedua kelas diberikan materi sistem persamaan linear dua variabel. Analisis setelah diberikan perlakuan menunjukkan kedua sampel berdistribusi normal dan homogen. Uji hipotesis menunjukkan hasil $t_{hitung} 5,459 > t_{tabel} 2,074$, dapat disimpulkan bahwa tingkat kemampuan pemecahan masalah siswa pada kelas eksperimen lebih baik daripada siswa kelas kontrol. Untuk melihat seberapa besar pengaruh dilakukan menggunakan *effect size* yang menunjukkan nilai $d = 1,608$ sehingga diketahui besarnya pengaruh model *problem based learning* terhadap kemampuan pemecahan masalah siswa sebesar 94,5%. Hal ini dapat membuktikan hipotesis bahwa kemampuan pemecahan masalah siswa yang diajarkan dengan model *problem based learning* lebih baik daripada kemampuan pemecahan masalah siswa yang diajarkan dengan pembelajaran biasa.

Kata kunci: model *problem based learning*, kemampuan pemecahan masalah, sistem persamaan linear dua variabel

ABSTRACT

Putri Zamsari, NIM 4183311006 (2022). The Effect of Problem Based Learning Model on the Student's Problem Solving Ability of SMP Swasta Imelda Medan.

Based on the results of observations at SMP Swasta Imelda Medan obtained information that students are not given the opportunity to develop problem solving skills and in learning in the classroom students are not taught with a learning model. As a result, students cannot express their thoughts. This study aims to determine the effect of the problem based learning model on student's problem solving abilities of SMP Swasta Imelda Medan. This research was conducted at SMP Swasta Imelda Medan in the odd semester of the 2022/2023 academic year. The subjects in this study for class VIII students of SMP Swasta Imelda Medan. The sample of this study was taken by cluster random sampling method, with a post-test only control group research design. The experimental class uses a problem based learning model while the control class uses ordinary learning and both classes are given material on a two-variable linear equation system. The analysis after being given treatment showed that both samples were normally distributed and homogeneous. Hypothesis testing shows the results of $t_{count} 5,459 > t_{table} 2,074$, it can be concluded that the level of problem solving ability of students in the experimental class is better than that of the control class. To see how big the effect is, it is done using an effect size which shows the value of $d = 1,608$ so that it is known that the magnitude of the effect of the problem based learning model on students' problem solving abilities is 94,5%. This can prove the hypothesis that the problem-solving ability of students who are taught with the problem-based learning model is better than the problem-solving abilities of students who are taught with ordinary learning.

Keywords: problem based learning model, problem solving ability, two-variable linear equation system