

## ABSTRAK

**Elma Batasia Siregar, 4161111025 (2021). Kemampuan Pemecahan Masalah Matematika Siswa Dengan Menggunakan Model *Problem Based Learning* Berbantuan TIK.**

Matematika merupakan salah satu tantangan penting untuk dipelajari karena dapat membantu memecahkan berbagai masalah dalam kehidupan sehari-hari. Salah satu peran dan kewajiban pendidik adalah memaksimalkan kesempatan belajar siswa dan membekali siswa dengan kemampuan pemecahan masalah. Salah satu model pembelajaran yang dapat mendorong siswa untuk memperoleh kemampuan tersebut, yaitu model *Problem Based Learning*. Penelitian ini bertujuan untuk menganalisis hasil kemampuan pemecahan masalah matematika siswa dengan menggunakan model *Problem Based Learning* (PBL) berbantuan TIK, dan untuk mengetahui kelebihan dan kekurangan model *Problem Based Learning* berbantuan TIK dalam pembelajaran matematika. Jenis penelitian ini penelitian kualitatif dengan menggunakan metode penelitian studi kepustakaan (*library research*). Hasil penelitian menunjukkan bahwa analisis kemampuan pemecahan masalah matematika siswa dengan menggunakan model *Problem Based Learning* (PBL) berbantuan TIK memberikan pengaruh terhadap kemampuan pemecahan masalah matematika siswa yang dibuktikan dengan hasil tes nilai rata-rata kemampuan pemecahan masalah matematika siswa. Adanya keterkaitan antara langkah model *Problem Based Learning* (PBL) berbantuan TIK dengan indikator-indikator kemampuan pemecahan masalah menyebabkan siswa menjadi lebih aktif dan siswa dapat menggali ide-ide matematika dan dikembangkan kembali sehingga menemukan makna dari proses pembelajaran. Kelebihan model *Problem Based Learning* berbantuan TIK didalam antara lain model *Problem Based Learning* berbantuan TIK menyediakan lingkungan pembelajaran yang menciptakan motivasi yang baik dan menyenangkan serta bebas dari anggapan bahwa matematika itu sulit dan menakutkan, serta menghemat waktu dalam pelaksanaan pembelajaran. Sedangkan, kekurangan model *Problem Based Learning* berbantuan TIK adalah terbatasnya fasilitas teknologi yang disediakan oleh sekolah.

**Kata Kunci : Kemampuan Pemecahan Masalah, Model *Problem Based Learning* (PBL), Teknologi Informasi dan Komunikasi (TIK)**

## ABSTRACT

**Elma Batasia Siregar, 4161111025 (2021). Students' Mathematical Problem Based Solving Ability Using ICT-Assisted Problem Based Learning Model.**

Mathematics is one of the important challenges to learn because it can help solve various problems in everyday life. One of the roles and obligations of educators is to maximize student learning opportunities and equip students with problem-solving skills. One of the learning models that can encourage students to acquire these abilities is the model *Problem Based Learning*. This study aims to analyze the results of students' mathematical problem solving skills using models *Problem Based Learning* ICT-assisted (PBL), and to determine the advantages and disadvantages of models *Problem Based Learning* ICT-assisted in learning mathematics. This research type qualitative study using research methods of literature study (*library research*). The results showed that the analysis of students' mathematical problem solving abilities using the model had an *Problem Based Learning* ICT-assisted (PBL) influence on students' mathematical problem solving abilities as evidenced by the test results of the average score of students' mathematical problem solving abilities. The existence of a link between the steps of the model *Problem Based Learning* (PBL) assisted by ICT and the indicators of problem solving abilities causes students to be more active and students can explore mathematical ideas and develop them again so that they find the meaning of the learning process. The advantages of the *Problem Based Learning* ICT-assisted model include the model *Problem Based Learning* ICT-assisted providing a learning environment that creates good and fun motivation and is free from the assumption that mathematics is difficult and scary, and saves time in the implementation of learning. Meanwhile, the drawback of the model *Problem Based Learning* ICT-assisted is the limited technological facilities provided by the school.

**Keywords:** *Problem Solving Ability, Problem Based Learning Model, Information and Communication Technology (ICT)*

