ABSTRAK

Muhammad Arya Ihsan, NIM 4183311024 (2022). Upaya Meningkatkan Kemampuan Pemecahan Masalah Matematika Siswa Melalui Model Problem Based Learning Berbantuan Media Pembelajaran Construct 2 Di SMPN 8 Percut Sei Tuan.

Penelitian ini bertujuan untuk mengetahui bagaimana peningkatan kemampuan pemecahan masalah matematika siswa melalui model *Problem Based Learning* berbantuan media pembelajaran *Construct 2* di kelas IX-1 SMPN 8 Percut Sei Tuan pada materi Transformasi Geometri. Penelitian ini merupakan Penelitian Tindakan Kelas (PTK). Subjek dalam penelitian ini adalah 28 orang siswa kelas IX-1 SMPN 8 Percut Sei Tuan. Instrumen pada penelitian ini terdiri dari tes dan lembar observasi. Tes digunakan untuk mengukur tingkat kemampuan pemecahan masalah matematika siswa dan lembar observasi digunakan untuk mengukur dan mengamati kegiatan yang terjadi selama kegiatan pembelajaran. Hasil tes kemampuan awal menunjukkan bahwa rata-rata kemampuan pemecahan masalah matematika siswa ialah 22,21 termasuk kategori kemampuan Sangat Kurang. Persentase ketuntasan klasikal yang diperoleh ialah 13,33%. Pada siklus I, hasil tes menunjukkan bahwa rata-rata kemampuan pemecahan masalah matematika siswa ialah 63,89 termasuk kategori kemampuan Cukup. Persentase ketuntasan klasikal yang diperoleh ialah 42,86%. Pada siklus II, hasil tes menunjukkan bahwa rata-rata kemampuan pemecahan masalah matematika siswa ialah 83,73 termasuk kategori kemampuan Baik. Persentase ketuntasan klasikal yang diperoleh ialah 85,71%. Selain itu, proses pembelajaran dengan menggunakan model *problem based learning* berbantuan media pembelajaran *Construct 2* juga mengalami peningkatan. Dari hasil observasi, diperoleh bahwa nilai rata-rata proses pembelajaran siklus I ialah 2,79 termasuk kategori Baik, dan nilai rata-rata proses pembelajaran siklus II ialah 3,46 termasuk kategori Sangat Baik. Dengan adanya peningkatan tersebut, disimpulkan bahwa dengan diterapkannya model *problem based learning* berbantuan media pembelajaran *Construct 2* maka terjadi peningkatan terhadap kemampuan pemecahan masalah matematika siswa kelas XI-1 di SMPN 8 Percut Sei Tuan.

Kata Kunci: Pemecahan masalah matematika, *Problem Based Learning*, Penelitian tindakan kelas, *Construct 2*.

ABSTRACT

Muhammad Arya Ihsan, NIM 4183311024 (2022). Efforts to Improve Students' Mathematical Problem-Solving Ability Through Problem Based Learning Assisted by Construct 2 at SMPN 8 Percut Sei Tuan.

This study aims to analyze the improvement of the mathematical problem-solving ability through Problem Based Learning assisted by Construct 2 in class IX-1 SMPN 8 Percut Sei Tuan on Geometry Transformation. This research is a Classroom Action Research (CAR). The subjects of this study were 28 students of class IX-1 SMPN 8 Percut Sei Tuan. The instruments in this study consisted of tests and observation sheets. Tests were used to measure the level of students' mathematical problem-solving ability and observation sheets were used to measure and observe the activities that occur during learning activities. The results of the initial test showed that average mathematical problem-solving ability of students was 22.21, and included in the category of Very Poor ability. In addition, the percentage of classical completeness obtained was found to be 13.33%. In the first cycle, the results of the math ability test showed that the students' average mathematical problem-solving was 63.89, and included in the Enough ability category. Meanwhile, The percentage of classical completeness obtained was found to be 42.86%. In the second cycle, the test results showed that students' average mathematical problem-solving ability was 83.73, and included in the Good ability category. Furthermore, the percentage of classical completeness obtained is 85.71%. In addition, the learning process using a Problem Based Learning model assisted by Construct 2 has also increased. From the observations, it was found that the average value of the first cycle was 2.79 and included in the Good category, and the average value of the second cycle was 3.46 and included in the Very Good category. With this improvement, it can be concluded that with the implementation of Problem Based Learning model assisted by Construct 2, there is an improvement in the mathematical problem-solving ability of class XI-1 students at SMPN 8 Percut Sei Tuan.

Keywords: Mathematical problem-solving, Problem Based Learning, Classroom action research, Construct 2.