ABSTRAK

Ayyubi, Salahuddin Al. 2022. *Analisis Model Problem Based Learning terhadap Pemecahan Masalah Matematika Menurut Polya di SMP PGRI 1 Buduran*. Skripsi. Program Studi Pendidikan Matematika. Fakultas Sains dan Teknologi. Universitas PGRI Adi Buana Surabaya, Pembimbing: Drs. Susilo Hadi, M.Pd.

Kata kunci : *model problem based learning, pemecahan masalah matematika, pemecahan masalah Polya.*

Kemampuan pemecahan masalah matematika perlu dikembangkan dalam kegiatan pembelajaran agar lebih bermakna. Pemecahan masalah matematika tentunya sangat diperlukan dalam kegiatan sehari-hari untuk peserta didik sehingga dibutuhkan model pembelajaran yang tepat. Salah satu model pembelajaran yang cocok digunakan dalam meningkatkan kemampuan masalah matematika adalah model *problem based learning*.

Tujuan dari penelitian ini adalah untuk mendeskripsikan model *problem based learning* terhadap kemampuan pemecahan masalah matematika menurut tahapan Polya dan hasil belajar peserta didik SMP PGRI 1 Buduran. Penelitian ini menggunakan metode penelitian kualitatif deskriptif. Pengumpulan data yang digunakan dalam penelitian ini dengan tes tulis dan wawancara. Langkah-langkah analisis data yang digunakan dalam penelitian ini adalah reduksi data, penyajian data, dan penarikan kesimpulan. Triangulasi teknik digunakan dalam penelitian ini untuk memeriksa keabsahan data yang didapat. Sampel yang diambil dalam penelitian ini adalah peserta didik kelas VIII A SMP PGRI 1 Buduran.

Berdasarkan hasil penelitian yang didapat sebagian besar kemampuan pemecahan masalah matematika peserta didik kelas VIII A SMP PGRI 1 Buduran tergolong dalam kategori tinggi. Setelah penggunaan model *problem based learning* kemampuan pemecahan masalah matematika peserta didik kelas VIII A SMP PGRI 1 Buduran dapat meningkat. Hal ini dikarenakan pemahaman masalah

peserta didik meningkat dan mampu menggunakan langkah-langkah pemecahan masalah dengan benar.

ABSTRACT

Ayyubi, Salahuddin Al. 2022. Analysis of Problem Based Learning Models on Solution Problem Mathematics According to Polya in PGRI 1 Buduran Middle School. Undergraduate Thesis. Mathematics Education Study Program. Faculty of Science and Technology. PGRI Adi Buana University Surabaya, Supervisor : Drs. Susilo Hadi, M.Pd.

Keywords : *problem-based learning model, mathematics problem solving, Polya stage problem solving.*

Mathematics problem-solving ability needs to be developed to generate meaningful learning conditions. Mathematics problem solving was very necessary for the daily activity for participant's education. As a result, the best learning model was needed. One suitable learning model for increasing mathematics problem solving is the problem-based learning model.

The purpose of the study is to describe the problem-based learning model against mathematics problem-solving ability and the results in study participants middle school based on mathematics problem-solving ability according to Polya stage. this research used qualitative descriptive research method. Data collection was used in the research was test and interview. Data analysis steps used in the research are data reduction, data presentation, and withdrawal conclusion. the technique triangulation was used in the research to inspect the validity of the data obtained. Sample in the research is participant educate class VIII A of middle school PGRI 1 Buduran.

Based on results research obtained, largely the mathematics problem-solving ability of participants educate class VIII A belongs to the high category. The implementation of the problem-based learning model increased the mathematics problem-solving ability participant educate class VIII A of middle school PGRI 1 Buduran. The result made the mathematics problem-solving ability of participant educate increase to high category due to the understanding problem ability participants educate improve and be able to use steps of problem-solving as well.