ABSTRAK

Lestari, Iin. 2023. *Efektivitas Model Problem Based Learning Berbantuan Slice Fraction Terhadap Kemampuan Pemecahan Masalah Matematika Pada Soal HOTS Kelas IV SDN Kaliwadas*. Skripsi, Program Studi Pendidikan Guru Sekolah Dasar Universitas Peradaban. Anwar Ardani, M.Pd.

Kata Kunci: Kemampuan Pemecahan Masalah Matematika, *Problem Based Learning, Slice Fraction*, Soal HOTS

Kemampuan pemecahan masalah merupakan salah satu tujuan pembelajaran matematika yang harus dicapai siswa. Namun, permasalahan muncul terkait rendahnya kemampuan siswa dalam pemecahan masalah matematika. Penelitian ini bertujuan untuk mengetahui apakah model PBL berbantuan *Slice Fraction* efektif terhadap kemampuan pemecahan masalah matematika pada soal HOTS kelas IV SDN Kaliwadas. Metode penelitian yang digunakan adalah pendekatan kuantitatif dengan jenis eksperimen. Populasi dalam penelitian ini adalah siswa kelas IV SDN Kaliwadas. Teknik sampling yang digunakan adalah *probability sampling,* yaitu *cluster sampling*. Sampel dalam penelitian ini yaitu kelas IV SDN Kaliwadas 01 sebanyak 28 siswa sebagai kelas eksperimen dan kelas IV SDN kaliwadas 03 sebanyak 20 siswa sebagai kelas kontrol. Teknik pengumpulan data dilakukan menggunakan tes dan analisis data menggunakan uji *independent sample t test*. Hasil uji *independent sample t test* pada penelitian ini menunjukkan nilai thitung sebesar 5,258 sedangkan ttabel sebesar 2,0129. Karena thitung > ttabel, maka H0 ditolak. Artinya, kemampuan pemecahan masalah matematika siswa yang pembelajarannya menggunakan model PBL berbantuan *Slice Fraction* lebih baik daripada kemampuan pemecahan masalah matematika siswa yang pembelajarannya dengan model pembelajaran konvensional. Dari hasil uji hipotesis, dapat disimpulkan bahwa model PBL berbantuan *Slice Fraction* efektif terhadap kemampuan pemecahan masalah matematika pada soal HOTS kelas IV SDN Kaliwadas.

*ABSTRACT*

Lestari, Iin. 2023*. The Effectiveness of Problem Based Learning Model Assisted by Slice Fraction on Mathematical Problem Solving Ability in HOTS Questions for Fourth Grade of SDN Kaliwadas. Thesis, Elementary School Teacher Education Study Program, Peradaban University.* Anwar Ardani, M.Pd*.*

*Keywords: Mathematical Problem Solving Ability, Problem Based Learning, Slice Fraction, HOTS*

*Problem-solving ability was one of the learning objectives in mathematics that students were expected to achieve. However, there was an issue regarding the low problem-solving ability of students in mathematics. This research aimed to determine whether the PBL (Problem-Based Learning) model assisted by Slice Fraction was effective in improving the mathematical problem-solving ability of fourth-grade students at SDN Kaliwadas for higher-order thinking skills (HOTS) questions. The research method used a quantitative approach with an experimental design. The population in this study was fourth-grade students at SDN Kaliwadas. The sampling technique used was probability sampling, specifically cluster sampling. The sample in this study consisted of 28 students in class IV SDN Kaliwadas 01 as the experimental group and 20 students in class IV SDN Kaliwadas 03 as the control group. Data collection was conducted using tests, and data analysis was performed using an independent sample t-test. The results of the independent sample t-test in this study showed a t-value of 5.258, while the t-table value was 2.0129. Because the t-value > t-table value, the null hypothesis (H0) was rejected. This meant that the mathematical problem-solving ability of students who learned using the PBL model assisted by Slice Fraction was better than the mathematical problem-solving ability of students who learned with the conventional teaching model. Based on the results of the hypothesis test, it could be concluded that the PBL model assisted by Slice Fraction was effective in improving the mathematical problem-solving ability for higher-order thinking skills (HOTS) questions among fourth-grade students at SDN Kaliwadas.*