

ABSTRAK

Gembo, Veneranda Lestari Nona 2026, Pengembangan LKPD matematika berbasis STAD dengan Pendekatan *Deep Learning* untuk Meningkatkan Pemahaman Konsep Rasio Siswa SMP Sriwedari Malang. Program Studi Pendidikan Matematika, Fakultas Ilmu Pendidikan, Universitas Tribhuwana Malang. Pembimbing (I) Nila Kartika Sari, S.Pd., M.Pd dan pembimbing
(II) Muhammad Yusi Kamhar, S.Pd., M.Pd

Kata kunci: LKPD, STAD, *Deep Learning*, Pemahaman Konsep Rasio

Penelitian ini dilatarbelakangi oleh rendahnya pemahaman konsep rasio pada siswa kelas VII SMP Sriwedari Malang, yang berdampak pada keterbatasan kemampuan berpikir dan penerapan konsep matematika dalam kehidupan sehari-hari. Penelitian ini bertujuan untuk mengembangkan Lembar Kerja Peserta Didik (LKPD) berbasis *Student Teams Achievement Division* (STAD) dengan pendekatan *Deep Learning* untuk meningkatkan pemahaman konsep rasio siswa. Jenis penelitian yang digunakan adalah penelitian dan pengembangan (*Research and Development*) dengan model ADDIE yang meliputi lima tahapan, yaitu *analysis, design, development, implementation, dan evaluation*. Subjek penelitian adalah siswa kelas VII SMP Sriwedari Malang. Teknik pengumpulan data dilakukan melalui lembar validasi ahli materi, ahli media, dan ahli bahasa, angket respon siswa, serta tes *pretest* dan *posttest*. Hasil penelitian menunjukkan bahwa LKPD yang dikembangkan memiliki tingkat validitas yang sangat tinggi berdasarkan penilaian ahli materi, ahli media, dan ahli bahasa dengan persentase rata-rata sebesar 96,25%, tingkat kepraktisan sebesar 93,75%, serta efektif meningkatkan pemahaman konsep siswa yang ditunjukkan melalui peningkatan rata-rata nilai siswa dari 75,42 menjadi 91,25 dengan kategori N-Gain sedang hingga tinggi. Hasil penelitian ini menunjukkan bahwa integrasi LKPD berbasis STAD dengan pendekatan *Deep Learning* mampu meningkatkan keterlibatan siswa, pemahaman konsep, dan kemampuan berpikir analitis. Dengan demikian, pengembangan LKPD ini dapat menjadi solusi efektif dalam mengatasi kesulitan pemahaman konsep rasio siswa serta menjadi referensi dalam pengembangan bahan ajar yang inovatif dan bermakna.

ABSTRACT

Gembo, Veneranda Lestari Nona 2026, *Development of Mathematics Student Worksheets (LKPD) Based on STAD with a Deep Learning Approach to Improve Students' Understanding of Ratio Concepts at Sriwedari unior High School Malang*. Mathematics Education Study Program, Faculty of Education, Universitas Tribhuwana Tungadewi. Advisor (I) Nila Kartika Sari S.Pd., M.Pd and Advisor (II) Muhammad Yusi Kamhar, S.Pd., M.Pd

Keywords: LKPD, STAD, Deep Learning, Understanding of Ratio Concepts.

This study was motivated by the low understanding of ratio concepts among seventh-grade students at SMP Sriwedari Malang, which affected their thinking skills and ability to apply mathematical concepts in daily life. This research aimed to develop Student Worksheets (Lembar Kerja Peserta Didik/LKPD) based on the Student Teams Achievement Division (STAD) model with a Deep Learning approach to improve students' understanding of ratio concepts. This study employed a Research and Development (R&D) method using the ADDIE model, which consists of five stages: analysis, design, development, implementation, and evaluation. The subjects of this study were seventh-grade students of SMP Sriwedari Malang. Data collection techniques included validation sheets from material experts, media experts, and language experts, student response questionnaires, as well as pretest and posttest instruments. The results showed that the developed LKPD had a very high level of validity based on assessments by material experts, media experts, and language experts, with an average percentage of 96.25%, a practicality level of 93.75%, and effectiveness in improving students' conceptual understanding as indicated by the increase in students' average scores from 75.42 to 91.25, categorized as moderate to high N-Gain. The findings indicate that the integration of STAD-based LKPD with a Deep Learning approach was able to enhance students' engagement, conceptual understanding, and analytical thinking skills. Therefore, the developed LKPD can serve as an effective solution to overcome students' difficulties in understanding ratio concepts and as a reference for developing innovative and meaningful teaching materials.