

ABSTRAK

Angela Merici Olivia Putri, 2025. Diagnosis dan Remediasi Kesulitan Belajar Peserta Didik pada Materi Pecahan Menggunakan Pembelajaran STAD Berbantuan Representasi Visual. Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma.

Pemahaman konsep matematika dasar menjadi prasyarat untuk memahami konsep matematika tingkat lanjut. Akan tetapi, berdasarkan hasil observasi dan wawancara ditemukan bahwa peserta didik masih mengalami kesulitan dalam matematika tingkat lanjut dikarenakan pemahaman konsep matematika dasar mereka yang rendah. Oleh karena itu, penelitian ini bertujuan untuk merumuskan hasil diagnosis kesulitan belajar pada pecahan peserta didik kelas X, XI, dan XII serta mengetahui pemahaman peserta didik asrama putra kelas X, XI, dan XII akan materi pecahan setelah diterapkan pembelajaran remediasi.

Jenis penelitian yang digunakan adalah penelitian deskriptif kualitatif dengan proses diagnosis dan remediasi. Subjek dari penelitian ini adalah 25 peserta didik asrama putra kelas X, XI, dan XII SMAS Santa Familia Wae Nakeng. Instrumen penelitian yang digunakan yaitu observasi, wawancara kepada peserta didik, wawancara kepada pendidik, dan pemberian *pre-test* dan *post-test*. Teknik analisis data berupa reduksi data, penyajian data, dan penarikan kesimpulan.

Hasil penelitian menunjukkan 1) peserta didik mengalami kesulitan memodelkan ke bentuk matematika, kesulitan membandingkan pecahan, mengurutkan pecahan, mengubah bentuk pecahan, serta operasi hitung pecahan, dan kurangnya motivasi dalam mempelajari pecahan; 2) pembelajaran remediasi meningkatkan kemampuan peserta didik dalam beberapa aspek, seperti membandingkan dan mengurutkan pecahan, melakukan operasi hitung pecahan, dan mengubah pecahan. Namun, peserta didik masih perlu meningkatkan kemampuan mereka dalam menerapkan konsep matematika pada situasi nyata. Sebelum remediasi, peserta didik hanya mampu membandingkan dan mengurutkan pecahan dengan pembilang satu atau penyebut yang sama.

Kata kunci: diagnosis, remediasi, pembelajaran STAD, representasi visual, pecahan

ABSTRACT

Angela Merici Olivia Putri, 2025. *Diagnosis and Remediation of Students' Learning Difficulties in Fraction Material Using STAD Learning with the Assistance of Visual Representation. Mathematic Education Study Program, Department of Mathematics and Natural Sciences Education, Faculty of Teacher and Education, Sanata Dharma University.*

Understanding basic mathematical concepts is a prerequisite for understanding advanced mathematical concepts. However, observations and interviews revealed that students still experience difficulties in advanced mathematics due to their poor understanding of basic mathematical concepts. Therefore, this study aims to formulate a diagnosis of learning difficulties in fractions among students in grades 10, 11, and 12 and to determine the understanding of fractions among male boarding school students in grades 10, 11, and 12 after implementing remedial learning.

This study employed a descriptive qualitative approach with a diagnosis and remediation process. The subjects were 25 male boarding school students in grades 10, 11, and 12 of Santa Familia Wae Nakeng Senior High School. The research instruments used were observation, student interviews, teacher interviews, and pre- and post-tests. Data analysis techniques included data reduction, data presentation, and conclusion drawing.

The results showed: 1) students experienced difficulty modeling mathematical forms, comparing fractions, ordering fractions, converting fractions, and performing arithmetic operations, and a lack of motivation in learning fractions; 2) Remedial learning improves students' abilities in several areas, such as comparing and ordering fractions, performing arithmetic operations with fractions, and converting fractions. However, students still need to improve their ability to apply mathematical concepts to real-world situations. Before remediation, students were only able to compare and order fractions with the same numerator or the same denominator.

Keywords: *diagnosis, remediation, STAD learning, visual representation, fraction.*