

ABSTRAK

Unedo Samosir (4153111062) Efektivitas Pendekatan Realistic Mathematics Education (RME) Terhadap Peningkatan Kemampuan Pemahaman Konsep Siswa Kelas VIII SMP Swasta Bakti Mulia Onanrunggu T.P. 2022/2023

Penelitian ini merupakan penelitian eksperimen yang bertujuan untuk mengetahui efektivitas pendekatan *Realistic Mathematics Education* (RME) dalam meningkatkan kemampuan pemahaman konsep matematis siswa di kelas VIII SMP Swasta Bakti Mulia Onanrunggu. Populasi dari penelitian ini adalah siswa kelas VIII SMP Swasta Bakti Mulia Onanrunggu dengan sampel siswa kelas VIII-A sebagai kelas eksperimen dan siswa kelas VIII-B sebagai kelas kontrol. Pengumpulan data pada penelitian ini yaitu angket, observasi dan instrumen tes kemampuan pemahaman konsep. Analisis data diuji menggunakan uji beda rata-rata (uji t) dengan $\alpha = 5\%$ dan $dk = 28 + 30 - 2 = 56$, ketuntasan belajar minimum, aktivitas kelas, dan respon siswa. Hasil penelitian ini menunjukkan bahwa pendekatan Realistic Mathematic Education efektif dalam meningkatkan kemampuan pemahaman konsep matematis siswa dengan t hitung lebih besar dari t tabel $t_{hitung} = 1,8426 > t_{tabel} = 1,6725$, ketuntasan belajar tercapai baik secara individu (75,67) maupun secara klasikal (85,7%), aktivitas kelas berada pada kategori aktif (76,7%), serta respon siswa pada kategori positif (91,06%).

Kata Kunci: *Realistic Mathematics Education*, kemampuan pemahaman konsep, efektivitas



ABSTRACT

Unedo Samosir (4153111062) The Effectiveness of Realistic Mathematics Education Approach on Ability of Student's Mathematical Concept Understanding at VIII Grader of SMP Swasta Bakti Mulia Onanrunggu

This research is an experimental research which aim is to know whether Realistic Mathematics Education approach is effective on ability of students' mathematical concept understanding or not. The population in this research is all the students of class VIII SMP Swasta Bakti Mulia Onanrunggu. The sample is the students of class VIII-A as experimental group and the students of class VIII-B as control group. The instruments which are used consist of the ability of mathematical concept understanding test in $\alpha = 5\%$ and $df = 28 + 30 - 2 = 56$, teacher's observation notes, and student's observation notes. Data analysis is done with t test, minimal mastery criteria , classroom activity and student response . The results of this research proves that Realistic Mathematics Education approach is effective on the ability of students' mathematical concept understanding within score of t count is greater than t table $t_{count} = 1,8426 > t_{table} = 1,6725$. Classical mastery criteria accomplished by (85,7%) within individual mastery reach into 75,67. Class activity falls into the active category (76,7%), and student responses fall into the positive category (91,06%).

Keywords: Realistic Mathematics Education; ability of mathematical concept understanding, effectiveness

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