

ABSTRAK

Fidianti, Siti Chajah. 2023. Pengaruh Model Pembelajaran *Realistic Mathematics Education* Terhadap Kemampuan Pemecahan Masalah Matematika Siswa SMAN 1 Wringinanom. Skripsi. Program studi pendidikan matematika. Fakultas sains dan teknologi. Universitas PGRI adi buana surabaya, pembimbing Dra. Sri Rahayu, M.Pd.

Kata kunci: *realistic mathematics education, kemampuan pemecahan masalah matematika.*

Penelitian ini dilatarbelakangi oleh rendahnya kemampuan pemecahan masalah matematika siswa yang dimana pada proses pembelajaran masih banyak digunakan model pembelajaran konvensional. Sehingga diperlukan model pembelajaran yang sesuai. Seperti pada model pembelajaran *Realistic Mathematics Education* yang akan memudahkan siswa dalam menyelesaikan soal bentuk cerita dengan membayangkan pada kehidupan nyata. Tujuan penelitian ini adalah untuk mengetahui pengaruh model pembelajaran *Realistic Mathematics Education* terhadap kemampuan pemecahan masalah matematika materi barisan dan deret aritmatika siswa kelas XI SMAN 1 WRINGINANOM.

Jenis penelitian ini adalah penelitian kuantitatif dengan *Posttest-Only Control Design*. Populasi penelitian ini adalah kelas XI IPA. Sampel diambil dengan teknik *purposive sampling* sehingga didapat kelas XI IPA 2 dan XI IPA 4. Teknik pengumpulan data dilakukan dengan dokumentasi dan tes. Analisis data menggunakan uji-t yang sebelumnya dilihat normalitas dan homogenitas.

Berdasarkan analisis data dengan taraf signifikan 5% atau 0,05 maka diperoleh nilai $t_{hitung} = 3,62$ dan nilai $t_{tabel} = 1,99$. Karena $t_{hitung} > t_{tabel}$ berarti H_0 ditolak dan H_1 diterima berarti terdapat perbedaan kemampuan pemecahan masalah matematika antara siswa yang diajar dengan model pembelajaran *realistics mathematic education* dan siswa yang diajar dengan model pembelajaran konvensional.

Sehingga dapat disimpulkan bahwa terdapat pengaruh model pembelajaran *Realistic Mathematics Education* terhadap kemampuan pemecahan masalah matematika siswa SMAN 1 Wringinanom.

ABSTACT

Fidiанти, Siti Chajah. 2023. The Effect of Realistic Mathematics Education Learning Model on the Mathematical Problem Solving Ability of Students of SMAN 1 Wringinanom. Essay. Mathematics education study program. Faculty of science and technology. Pabri Adi Buana University, Surabaya, supervisor Dra. Sri Rahayu, M.Pd.

Keywords: realistic mathematics education, ability to solve mathematical problems.

The purpose of students' mathematical problem solving where in the learning process many conventional learning models are still used. So we need an appropriate learning model. As in the Realistic Mathematics Education learning model which will make it easier for students to solve story problems by imagining real life. The purpose of this study was to determine the effect of the Realistic Mathematics Education learning model on the ability to solve mathematical problems in the material of arithmetic sequences and series of class XI students of SMAN 1 WRINGINANOM.

The design of this study was quantitative with a Posttest-Only Control Design. The population of this research is class XI IPA. Samples were taken by purposive sampling technique so that class XI IPA 2 and XI IPA 4 were obtained. Data collection techniques were carried out with documentation and tests. Data analysis used the t-test which previously saw normality and homogeneity.

Based on data analysis with a significant level of 5% or 0.05, the $t_{count} = 3.62$ and $t_{table} = 1.99$ values are obtained. Because $t_{count} > t_{table}$ means that H_0 is rejected and H_1 is accepted, it means that there are differences in the ability to solve mathematical problems between students who are taught by the realistic mathematics education learning model and students who are taught by conventional learning models.

Therefore, it could be concluded that the implementation of the *Realistic Mathematics Education* model has an influence on the students of SMAN 1 Wringinanom's ability to solve mathematical problems.

