

**PENGARUH MODEL PEMBELAJARAN BERBASIS MASALAH
BERBANTUAN MEDIA *QUIZIZZ* TERHADAP KEMAMPUAN
PEMECAHAN MASALAH MATEMATIKA SISWA KELAS VIII DI SMP
NEGERI 1 PUPUAN**

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ABSTRAK

Penelitian ini dilatarbelakangi oleh rendahnya kemampuan pemecahan masalah matematika siswa. Tujuan dari penelitian ini adalah untuk mengetahui pengaruh model pembelajaran berbasis masalah berbantuan media *Quizizz* terhadap kemampuan pemecahan masalah matematika siswa. Penelitian ini merupakan penelitian jenis kuasi eksperimen dengan desain *post-test only control group*. Populasi penelitian adalah seluruh siswa kelas VIII SMP Negeri 1 Pupuan yang terdiri atas lima kelas dengan jumlah keseluruhan yaitu 156 siswa kemudian diambil dua kelas sebagai sampel penelitian yang dipilih dengan teknik *cluster random sampling* yaitu kelas VIIIA sebagai kelas eksperimen yang diberi perlakuan model pembelajaran berbasis masalah berbantuan media *Quizizz* sebanyak 32 siswa dan kelas VIIIC sebagai kelas kontrol yang diberi pembelajaran konvensional sebanyak 32 siswa. Instrumen yang digunakan dalam penelitian ini berupa tes kemampuan pemecahan masalah yang telah dinyatakan valid dan reliabel dengan $r = 0.705$. Pengujian hipotesis dilakukan menggunakan uji t (*independent samples t-test*) setelah memenuhi uji prasyarat yaitu uji normalitas dan uji homogenitas. Hasil analisis statistik deskriptif diperoleh rata-rata nilai *post-test* kelas eksperimen dan kelas kontrol berturut-turut sebesar 70.19 dan 62.56. Nilai statistik uji t sebesar $t = 3.124$ dan diperoleh nilai signifikansi $p = 0.003$ dimana $p < 0.05$ yang artinya H_0 ditolak dan H_1 diterima. Hal ini menunjukkan bahwa kemampuan pemecahan masalah matematika siswa yang mengikuti pembelajaran dengan model pembelajaran berbasis masalah berbantuan media *Quizizz* lebih tinggi daripada siswa yang mengikuti pembelajaran konvensional. Dengan demikian, dapat disimpulkan bahwa penerapan model pembelajaran berbasis masalah berbantuan media *Quizizz* berpengaruh positif terhadap kemampuan pemecahan masalah matematika siswa kelas VIII SMP Negeri 1 Pupuan.

Kata-kata kunci: *pembelajaran berbasis masalah, Quizizz, kemampuan pemecahan masalah matematika*

**THE EFFECT OF PROBLEM-BASED LEARNING MODEL ASSISTED BY
QUIZIZZ MEDIA ON THE MATHEMATICAL PROBLEM-SOLVING
ABILITY OF EIGHTH GRADE STUDENTS AT STATE JUNIOR HIGH
SCHOOL 1 PUPUAN**

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ABSTRACT

This study was motivated by the low mathematical problem-solving ability of students. The aim of this research was to determine the effect of the problem-based learning model assisted by Quizizz media on students' mathematical problem-solving skills. This research used a quasi-experimental method with a post-test only control group design. The population consisted of all eighth-grade students at State Junior High School 1 Pupuan, totaling 156 students across five classes. Two classes were selected as the research sample using cluster random sampling: class VIII-A as the experimental group (32 students), which received problem-based learning assisted by Quizizz media, and class VIII-C as the control group (32 students), which received conventional teaching. The instrument used in this study was a mathematical problem-solving test that had been validated and found reliable with a reliability coefficient of $r = 0.705$. The hypothesis was tested using an independent samples t -test after fulfilling the prerequisite tests of normality and homogeneity. The results of the descriptive statistical analysis showed that the average post-test scores of the experimental and control classes were 70.19 and 62.56, respectively. The t -test result was $t = 3.124$ with a significance value of $p = 0.003$, where $p < 0.05$, indicating that H_0 was rejected and H_1 was accepted. This indicates that students who received problem-based learning assisted by Quizizz media had higher mathematical problem-solving abilities than those who received conventional teaching. Therefore, it can be concluded that the application of the problem-based learning model assisted by Quizizz media has a positive effect on the mathematical problem-solving skills of eighth-grade students at State Junior High School 1 Pupuan.

Keywords: *problem-based learning, Quizizz, mathematical problem-solving ability*