

**PENGARUH PENERAPAN MODEL PEMBELAJARAN ELPSA
(*EXPERIENCE, LANGUAGE, PICTURE, SYMBOLS, APPLICATION*)
BERBANTUAN *QUIZIZZ* TERHADAP KEMAMPUAN PENALARAN
MATEMATIS SISWA KELAS X SMA**

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ABSTRAK

Penelitian ini bertujuan untuk menguji pengaruh model pembelajaran ELPSA (*Experience, Language, Picture, Symbols, Application*) berbantuan *Quizizz* terhadap kemampuan penalaran matematis siswa. Penelitian ini merupakan penelitian jenis eksperimen semu (*quasi experiment*) dengan desain *posttest only control group*. Populasi penelitian adalah seluruh siswa kelas X SMAS Karya Wisata Singaraja yang terdiri atas empat kelas dengan jumlah keseluruhan yaitu 145 siswa. Selanjutnya diambil dua kelas sebagai sampel penelitian yang dipilih dengan teknik *cluster random sampling* yaitu kelas X 2 sebagai kelas eksperimen sebanyak 34 siswa dan kelas X 3 sebagai kelas kontrol sebanyak 35 siswa. Kelas eksperimen diberi perlakuan dengan menerapkan model pembelajaran ELPSA berbantuan *Quizizz* dan kelas kontrol diberi perlakuan dengan menerapkan model pembelajaran konvensional. Instrumen yang digunakan dalam penelitian ini berupa tes kemampuan penalaran matematis yang telah dinyatakan valid dan reliabel dengan $r = 0,772$. Pengujian hipotesis dilakukan menggunakan uji t (*independent samples t-test*) setelah memenuhi uji prasyarat yaitu uji normalitas dan uji homogenitas. Hasil analisis data diperoleh rata-rata nilai *posttest* kelas eksperimen dan kelas kontrol berturut-turut sebesar 71,82 dan 64,00. Dengan nilai statistik uji t sebesar $t = 2,702$ dan diperoleh nilai signifikansi sebesar 0,004 dimana nilai $\text{sig} < 0,05$ yang berarti H_0 ditolak dan H_1 diterima. Hal ini menunjukkan bahwa kemampuan penalaran matematis siswa yang mengikuti model pembelajaran ELPSA berbantuan *Quizizz* lebih tinggi daripada kemampuan penalaran siswa yang mengikuti model pembelajaran konvensional. Dengan demikian, dapat disimpulkan bahwa penerapan model pembelajaran ELPSA berbantuan *Quizizz* memiliki pengaruh positif terhadap kemampuan penalaran matematis siswa kelas X SMAS Karya Wisata Singaraja.

Kata Kunci: kemampuan penalaran matematis siswa, model pembelajaran ELPSA (*Experience, Language, Picture, Symbols Application*), *Quizizz*.

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ABSTRAK

This study aims to examine the effect of the ELPSA (Experience, Language, Picture, Symbols, Application) learning model, supported by Quizizz, on students' mathematical reasoning skills. This study is a quasi-experimental study with a posttest-only control group design. The study population consists of all 10th-grade students at SMAS Karya Wisata Singaraja, comprising four classes with a total of 145 students. Two classes were selected as the research sample using cluster random sampling: Class X-2 as the experimental class (34 students) and Class X-3 as the control class (35 students). The experimental class was treated with the ELPSA learning model supported by Quizizz, while the control class was treated with the conventional learning model. The instrument used in this study was a mathematical reasoning ability test that had been validated and found to be reliable with a correlation coefficient of $r = 0,772$. Hypothesis testing was conducted using an independent samples t-test after meeting the prerequisite tests, namely the normality test and the homogeneity test. The results of the data analysis showed that the average posttest scores for the experimental and control classes were 71,82 and 64,00, respectively. The t-test statistic was $t = 2,702$ and the significance value was 0,004 where $\text{sig} < 0,05$ meaning that H_0 was rejected and H_1 was accepted. This indicates that the mathematical reasoning skills of students who participated in the Quizizz-assisted ELPSA learning model were higher than those of students who participated in the conventional learning model. Thus, it can be concluded that the implementation of the Quizizz-assisted ELPSA learning model has a positive effect on the mathematical reasoning skills of 10th-grade students at SMAS Karya Wisata Singaraja.

Kata Kunci: students' mathematical reasoning skills, ELPSA (*Experience, Language, Picture, Symbols Application*) learning model, Quizizz.