PENGARUH PENERAPAN MODEL PEMBELAJARAN ELPSA TERHADAP PEMAHAMAN KONSEP MATEMATIKA SISWA KELAS VIII SMP NEGERI 4 DENPASAR

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui apakah pemahaman konsep matematika siswa yang dibelajarkan menggunakan model pembelajaran ELPSA lebih tinggi daripada siswa yang dibelajarkan menggunakan pembelajaran konvensional. Jenis penelitian ini adalah eksperimen semu dengan desain penelitian *post-test only control group design*. Populasi penelitian ini yaitu seluruh siswa kelas VIII SMP Negeri 4 Denpasar sebanyak 387 siswa yang terdistribusi ke dalam 11 kelas, sampel penelitian ini yaitu kelas VIII 2 dan VIII 5 sebanyak 70 orang siswa dengan teknik pengambilan sampel yaitu *cluster random sampling*. Data berupa skor pemahaman konsep matematika siswa dikumpulkan melalui tes pemahaman konsep, berbentuk uraian. Teknik analisis data menggunakan uji-t satu ekor. Hasil analisis data menunjukkan bahwa rata-rata skor kelompok eksperimen adalah 68.68 dan kelompok kontrol adalah 58.46 dan nilai $t_{hitung} = 2.392 > t_{tabel} = 1.995$ dengan taraf signifikansi 5% sehingga H_0 ditolak, ini berarti bahwa rata-rata skor pemahaman konsep matematika siswa yang dibelajarkan dengan model pembelajaran ELPSA lebih tinggi daripada rata-rata skor pemahaman konsep matematika siswa yang dibelajarkan dengan pembelajaran konvensional. Dengan demikian dapat disimpulkan bahwa model pembelajaran ELPSA memberikan pengaruh positif dalam menanamkan pemahaman konsep matematika siswa.

Kata Kunci: Model Pembelajaran ELPSA, Pemahaman Konsep Matematika, TIMSS.

THE EFFECT OF THE IMPLEMENTATION OF THE ELPSA LEARNING MODEL ON THE UNDERSTANDING OF THE MATHEMATICAL CONCEPT IN THE CLASS VIII STUDENTS OF SMP NEGERI 4 DENPASAR

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ABSTRACT

This study aims to determine whether the understanding of mathematical concepts of students who are taught using the ELPSA learning model is higher than students who are taught using conventional learning. This type of research is a quasi-experimental research design with a post-test only control group design. The population of this study was all students of class VIII of SMP Negeri 4 Denpasar as many as 387 students who were divided into 11 classes, the sample of this study were students of grades VIII 2 and VIII 5 as many as 70 students with the sampling technique of random cluster sampling. Data in the form of a score of understanding of mathematical concepts collected through a test of understanding concepts, form of description. Data analysis techniques used one-tailed t-test. The results of data analysis showed the average score of the experimental group was 68.68 and the control group was 58.46 and $t_{count} = 2.392 > t_{table} = 1.995$ with a significance level of 5% so that H0 was rejected, this shows the average vision scores studied by students who were taught with ELPSA learning model is higher than the average score of students' understanding of mathematics concepts that are taught with conventional learning. Thus it can be concluded that the ELPSA learning model has a positive influence in instilling understanding of students' mathematical concepts.

Keywords: ELPSA Learning Model, Understanding Mathematical Concepts, TIMSS.