

ABSTRAK

Dewi, Desak Putu Novia. 2019. *Perbedaan Pengaruh Model Pembelajaran Kooperatif Script Berbantuan Geogebra Dan Model Pembelajaran Berbasis Masalah (PBM) Terhadap Kemampuan Representasi Dan Disposisi Matematika Siswa Smp N 3 Tampaksiring*. Tesis (tidak diterbitkan). Singaraja: Pascasarjana Undiksha.

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Kata-kata kunci: Model Pembelajaran Kooperatif Script, Model Pembelajaran Berbasis Masalah, Media *GeoGebra*, Representasi Matematika, Disposisi Matematika

Penelitian ini bertujuan untuk mendeskripsikan perbedaan pengaruh model pembelajaran kooperatif *script* berbantuan geogebra dan model pembelajaran berbasis masalah terhadap kemampuan representasi dan disposisi matematika siswa SMP N 3 Tampaksiring. Penelitian eksperimen semu ini menggunakan desain *The statistic Group Postest only design* yang melibatkan 306 siswa. Dengan teknik *cluster random sampling* dipilih 2 kelas sebagai sampel kemudian dilakukan pengudian untuk terpilih kelas eksperimen I dan kelas eksperimen II. Intervensi pada kelompok eksperimen I adalah pengajaran dengan pengaruh model pembelajaran kooperatif *script* berbantuan geogebra dan pada kelas eksperimen II dengan model pembelajaran berbasis masalah serta dilaksanakan dalam 8 pertemuan. Data kemampuan representasi matematis siswa dikumpulkan menggunakan tes esai dan data disposisi dikumpulkan dengan angket. Selanjutnya, data tersebut dianalisis menggunakan uji MANOVA dengan tingkat signifikansi 5%. Hasilnya menunjukkan bahwa kemampuan representasi dan disposisi matematika siswa yang mengikuti pembelajaran dengan model pembelajaran kooperatif *script* berbantuan geogebra secara signifikan lebih baik daripada siswa yang mengikuti pembelajaran model berbasis masalah. oleh karena itu dapat disimpulkan terdapat perbedaan pengaruh model pembelajaran kooperatif *script* berbantuan geogebra dan model pembelajaran berbasis masalah terhadap kemampuan representasi dan disposisi matematika siswa SMP N 3 Tampaksiring

ABSTRACT

Dewi, Desak Putu Novia. 2019. the differences in the influence of geogebra-assisted script cooperative learning models and problem-based learning models on the ability of mathematical representation and disposition students of SMP N 3 Tampaksiring. Thesis (not published). Singaraja: Faculty of Mathematics and Natural Sciences Undiksha.

This thesis has been approved and examined by the Supervisor I: Prof. Drs. Sariyasa, M.Sc.,Ph.D. and Supervisor II: Dr.I Wayan Puja Astawa,S.Pd.,M.stat.Sci.

Keywords: Script Cooperative Learning Model, Problem Based Learning Model, GeoGebra Media, Mathematical Representation, Math Disposition.

This study aims to describe the differences in the influence of geogebra-assisted script cooperative learning models and problem-based learning models on the ability of mathematical representation and disposition students of SMP N 3 Tampaksiring. This quasi-experimental research uses the design of the statistic Group Postest only design which involved 306 students. With the cluster random sampling technique 2 classes are selected as a sample then the experimental class I and experimental class II were chosen. The intervention in the experimental group I was teaching with the influence of a geogebra-assisted script cooperative learning model and in the experimental class II with a problem-based learning model and was carried out in 8 meetings. Data on students' mathematical representation abilities were collected using essay tests and disposition data were collected by questionnaire. Furthermore, the data were analyzed using MANOVA test with a significance level of 5%. The results show that the mathematical representation and disposition abilities of students who take lessons with the geogebra-assisted script cooperative learning model are significantly better than students who take problem-based learning models. Therefore it can be concluded that there are differences in the influence of the geogebra-assisted script cooperative learning model and the problem-based learning model on the mathematical representation and disposition abilities students of SMP N 3 Tampaksiring.