PENGARUH PENERAPAN MODEL PEMBELAJARAN *MISSOURI MATHEMATICS PROJECT* (MMP) BERBANTUAN *MIND MAPPING* TERHADAP KEMAMPUAN PEMAHAMAN KONSEP MATEMATIKA SISWA KELAS VIII SMP NEGERI 1 SINGARAJA

Oleh

Nyoman Ferisnayani, NIM. 1613011085

Program Studi S1 Pendidikan Matematika

Universitas Pendidikan Ganesha

ABSTRAK

Tujuan pelaksanaan penelitian ini untuk melihat pengaruh penerapan model pembelajaran *Missouri Mathematics Project* (MMP) berbantuan *mind mapping* terhadap kemampuan pemahaman konsep matematika. Penelitian yang merupakan penelitian eksperimen semu ini menggunakan *pretest-posttest control group design*. Populasi penelitian yakni siswa kelas VIII SMP Negeri 1 Singaraja tahun ajaran 2019/2020. Dengan menggunakan teknik *cluster random sampling*, diperoleh sampel sebanyak 64 siswa yang terdiri dari kelompok eksperimen dan kelompok kontrol. Tes uraian digunakan baik pada *pretest* dan *posttest* untuk mengukur kemampuan pemahaman konsep matematika siswa. Data dari hasil penelitian dikumpul dan dianalisis dengan uji ANACOVA pada taraf signifikansi 5%. Analisis penelitian menghasilkan nilai $F_A{}^* = 4,111$ dan nilai $F_{tabel} = 3,998$. Karena $F_A{}^* > F_{tabel}$, diambil keputusan untuk menerima H_1. Artinya, kemampuan pemahaman siswa terkait konsep matematika saat dibelajarkan dengan model pembelajaran MMP berbantuan *mind mapping* lebih baik dibanding siswa yang dibelajarkan dengan pembelajaran konvensional. Oleh sebab itu, dapat disimpulkan model pembelajaran MMP berbantuan *mind mapping* memberi pengaruh positif terhadap kemampuan pemahaman konsep matematika siswa.

Kata Kunci: Model Pembelajaran *Missouri Mathematics Project*, *Mind Mapping*, Pemahaman Konsep Matematika

THE EFFECT OF MISSOURI MATHEMATICS PROJECT (MMP) LEARNING MODEL ASSISTED BY MIND MAPPING TOWARDS STUDENTS' ABILITIES IN COMPREHENDING MATHEMATICAL CONCEPTS

By

Nyoman Ferisnayani, NIM. 1613011085

Program Studi S1 Pendidikan Matematika

Universitas Pendidikan Ganesha

ABSTRACT

The aim of this study was to find out the effect of Missouri Mathematics Project (MMP) learning model assisted by mind mapping towards students' abilities in comprehending mathematical concepts. Pre-test and post-test control group design was used in this quasi-experimental research. The research population was the 2nd grade students in SMP Negeri 1 Singaraja in the year of 2019/2020. Cluster random sampling technique was used in choosing the samples. By using cluster random sampling, 64 students as samples were obtained consisting of the experimental group and the control group. Pre-test and post-test in the form of essay were used in testing students' abilities in comprehending mathematical concepts. ANACOVA test with a significance level of 5% was used in analyzing the collected research data. The analysis result showed $F_A{}^*$ value = 4,111 and F_{tabel} value = 3,998. Since $F_A{}^* > F_{tabel}$, H_1 was accepted. It means that students' abilities in comprehending mathematical concepts that were taught using MMP learning model assisted by mind mapping were better than the students that were taught using the conventional learning. Therefore, it was concluded that MMP learning model assisted by mind mapping provides positive effects to students' abilities in comprehending mathematical concepts.

Keywords: Missouri Mathematics Project Learning Model, Mind Mapping, Mathematical Concepts Comprehension