

ABSTRAK

SITI NUR ISTIAWATI. Pengaruh Model *Problem Based Learning* Berbantuan *Macromedia Flash* terhadap Kemampuan Representasi Matematis dan *Self-Confidence* Siswa Kelas VII SMPN 1 Sidamanik. 2017

Penelitian ini bertujuan untuk mengetahui: (1) pengaruh model *problem based learning* berbantuan *macromedia flash* terhadap kemampuan representasi matematis siswa, (2) pengaruh model *problem based learning* berbantuan *macromedia flash* terhadap *self-confidence* siswa, (3) interaksi antara model pembelajaran dengan kemampuan awal matematika terhadap kemampuan representasi matematis siswa, dan (4) interaksi antara model pembelajaran dengan kemampuan awal matematika terhadap *self-confidence* siswa. Jenis penelitian ini adalah *quasi eksperiment*. Populasi penelitian ini adalah seluruh siswa Kelas VII SMPN 1 Sidamanik yang berjumlah 323 siswa. Sampel penelitian ini adalah Kelas VII-A sebagai kelas eksperimen (36 siswa) dan kelas VII-C sebagai kelas kontrol (36 siswa). Instrumen yang digunakan terdiri dari tes KAM, tes kemampuan representasi matematis dan angket *self-confidence* siswa. Analisis yang dilakukan menggunakan ANAVA dua jalur. Hasil penelitian menunjukkan bahwa: (1) Terdapat pengaruh yang signifikan model *problem based learning* berbantuan *macromedia flash* terhadap kemampuan representasi matematis siswa, (2) Terdapat pengaruh yang signifikan model *problem based learning* berbantuan *macromedia flash* terhadap *self-confidence* siswa, (3) Tidak terdapat interaksi yang signifikan antara model pembelajaran dan KAM terhadap kemampuan representasi matematis siswa, dan (4) Tidak terdapat interaksi yang signifikan antara model pembelajaran dan KAM terhadap *self-confidence* siswa.

Kata kunci: *Problem Based Learning*, *Macromedia Flash*, Kemampuan Representasi Matematis, dan *Self-Confidence*

ABSTRACT

SITI NUR ISTIAWATI. The Effect Problem Based Learning Model with Macromedia Flash to Mathematical Representation Ability and Self-Confidence of VII Grade SMPN 1 Sidamanik Students. 2017

This research aims to know : (1) the effect of Problem Based Learning model with Macromedia Flash helping to the students' Mathematical Representation Ability, (2) the effect of Problem Based Learning model with Macromedia Flash helping to the students' Self-Confidence, (3) the interaction between learning model with mathematic pre-ability to the students' mathematical representation ability, (4) the interaction between learning model with mathematic pre-ability to the students' self-confidence. The kind of this research is quasi-experiment. The population of this research is all VII Grade students of SMPN 1 Sidamanik which amounted to 323 students. The sample of this research is VII-A Grade as experiment class (36 students) and VII-C Grade as control class (36) students. The instrument used consisting of KAM test, mathematical representation ability test and students' self-confident estionnaire. The analysis is used by using two track of ANAVA. The result of this research showed that: (1) there is a significant effect of problem based learning model buy Macromedia Flash helping to the students' mathematical representation ability, (2) there is a significant effect of problem based learning model by Macromedia Flash helping to the students' Self-Confidence, (3) there is no significant interaction between learning model and KAM to the students' mathematical representation ability, and (4) there is no significant interaction between learning model and KAM to the students' self-confidence.

Key Words: Problem Based Learning, Macromedia Flash, Mathematical Representation Ability, and Self-Confidence

