

ABSTRAK

Mega M Situmorang, NIM 4173311069 (2022), Pengaruh Penerapan Media Animasi Dengan Model *Problem Based Learning* (PBL) Terhadap Kemampuan Koneksi Matematis Siswa Kelas VIII SMP Negeri 5 Medan

Tujuan dari penelitian ini adalah untuk mengetahui apakah terdapat pengaruh yang signifikan penerapan media animasi terhadap kemampuan koneksi matematis siswa kelas VIII SMP Negeri 5 Medan. Populasi penelitian ini seluruh siswa kelas VIII SMP Negeri Medan, sampel teknik penelitian ini menggunakan teknik *random sampling*, sampel yang diambil dalam penelitian ini siswa kelas VIII sebanyak 2 kelas yaitu kelas eksperimen sebanyak 30 siswa yang diatur dengan menggunakan media animasi dengan model *Problem Based Learning* (PBL) dan kelas kontrol sebanyak 30 siswa yang diajari dengan pembelajaran konvensional. Instrumen yang digunakan untuk mengumpulkan data dalam penelitian ini terdiri dari soal tes (kemampuan koneksi). Berdasarkan hasil pengolahan data, pada kelas eksperimen dilakukan pembelajaran dengan media animasi setelah diberikan tes kemampuan koneksi diperoleh nilai rata-rata 70,17 sedangkan pada kelas kontrol sebesar 56,87 maka lebih tinggi nilai rata-rata menggunakan media animasi model *Problem Based Learning* (PBL). Dari hasil uji hipotesis dengan uji t dengan $dk=60$ dan $\alpha = 0,05$ maka diperoleh $t_{hitung}(10,7077) > t_{tabel}(1,67155)$ dari hasil tersebut maka dapat disimpulkan Terdapat pengaruh yang signifikan pembelajaran menggunakan media animasi dengan *Problem Based learning* (PBL) terhadap kemampuan koneksi matematika siswa kelas VIII di SMP Negeri Medan.

Kata kunci: media animasi, Problem Based Learning, Kemampuan koneksi matematis siswa.

ABSTRACT

Mega M Situmorang, NIM 4173311069 (2021), The Effect Of Application Of Animation Media With Model *Problem Based Learning* (PBL) On Mathematic Connection Ability Of Students Of Class VIII SMP Negeri 5 Medan

The purpose of this study was to determine whether there was a significant effect of the application of animation media on the mathematical connection abilities of eighth grade students of SMP Negeri 5 Medan. The population of this study was all students of class VIII SMP Negeri Medan, the sample of this research technique was using *random sampling technique*, the samples taken in this study were students of class VIII as many as 2 classes, namely the experimental class of 30 students who were arranged using animation media with the model. *Problem Based Learning* (PBL) and control class as many as 30 students who were taught with conventional learning. The instrument used to collect data in this study consisted of test questions (connection ability). Based on the results of data processing, in the experimental class students are happy when doing learning with animation media after being given a connection ability test, the average value is 70.17, while in the control class is 56.87, the average value is higher using the animation media model. *Problem Based Learning* (PBL). From the results of hypothesis testing by t test with $df = 60$ and then gained $t_{count} (10,7077) > t_{table} (1,67155)$ from these results it can be concluded that significant influences of learning using animation media with *Problem Based Learning* (PBL) on the mathematical connection ability of class VIII students at SMP Negeri Medan.

Keywords: animation media, Problem Based Learning, students' mathematical connection ability.