

ABSTRAK

Amelia Fazriyah. (2023). **Peningkatan Kemampuan Berfikir Kritis Matematis dan *Self-Efficacy* Melalui Model *Problem Based Learning* Berbantuan *Quizizz* Pada Siswa SMP.**

Penelitian ini bertujuan untuk: (1) Mengetahui apakah peningkatan kemampuan berfikir kritis matematis siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizizz* lebih tinggi daripada siswa yang memperoleh model pembelajaran konvensional; (2) Mengetahui apakah kemampuan *Self-Efficacy* siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizizz* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional; (3) Mengetahui apakah terdapat korelasi antara kemampuan berfikir kritis matematis dan *Self-Efficacy* siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizizz*. Metode yang digunakan dalam penelitian ini adalah kuasi eksperimen dengan desain penelitian *nonequivalent (pretest-posttest) control group design*. Subjek dari penelitian ini adalah siswa kelas VIII SMPN 16 Bandung, dengan sampel penelitian ini terdiri dari dua kelas. Diperoleh kelas VIII I sebagai kelas eksperimen yang memperoleh model *Problem Based Learning* berbantuan *Quizizz* dan kelas VIII E sebagai kelas kontrol yang memperoleh model pembelajaran konvensional. Instrumen yang digunakan dalam penelitian ini berupa soal uraian tes kemampuan berfikir kritis matematis dan skala *Self-Efficacy*. Data yang terkumpul kemudian diolah menggunakan *software IBM SPSS 23.0 for Windows*. Berdasarkan hasil analisis data, diperoleh kesimpulan bahwa: (1) Peningkatan kemampuan berfikir kritis matematis siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizizz* lebih tinggi daripada siswa yang memperoleh model pembelajaran konvensional; (2) *Self-Efficacy* siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizizz* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional; (3) Terdapat korelasi positif antara kemampuan berfikir kritis matematis dan *Self-Efficacy* siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizizz*.

Kata Kunci : *Problem Based Learning* (PBL), *Quizizz*, Berfikir Kritis Matematis, *Self-Efficacy*.

ABSTRACT

Amelia Fazriyah. (2023). *Improvement of Mathematical Critical Thinking Ability and Self-Efficacy Through Model Problem Based Learning Assisted by Quizizz in Junior High School Student.*

This study aims to: (1) Determine whether the increase in students' mathematical critical thinking skills using the Quizizz-assisted Problem Based Learning model is higher than that of students using the conventional models; (2) Knowing whether the Self-Efficacy ability of students who use the Quizizz-assisted Problem Based Learning model is better than students who use the conventional models; (3) To find out whether there is a correlation between the ability to think critically mathematically and the Self-Efficacy of students who obtain Quizizz-assisted Problem Based Learning models. The method used in this study was quasi-experimental with nonequivalent (pretest-posttest) control group design. The subjects of this study were grade VIII students of SMPN 16 Bandung, with the sample of this study consisting of two classes. Obtained class VIII I as an experimental class that received learning with the Problem Based Learning model assisted by Quizizz and class VIII E as a control class that received a conventional learning model. The instruments used in this study were essay questions on tests of mathematical critical thinking skills and Self-Efficacy scales. The collected data is then processed using IBM SPSS 23.0 for Windows software. Based on the results of data analysis, it was concluded that: (1) The increase in mathematical critical thinking skills of students who using the Quizizz-assisted Problem Based Learning model was higher than students who receive conventional learning models; (2) The self-efficacy of students who use the Quizizz-assisted Problem Based Learning model is better than students who receive the conventional learning model; (3) There is a positive correlation between mathematical critical thinking skills and Self-Efficacy of students who obtain the Quizizz-assisted Problem Based Learning model.

Keywords: *Problem Based Learning (PBL), Quizizz, Mathematical Critical Thinking, Self-Efficacy.*

ABSTRAK

Amelia Fazriyah. (2023). *Ngaronjatkeun Kamampuh Pamikiran Kritis Matematik jeung Kamampuh diri Ngaliwatan Model Pangajaran Berbasis Masalah. Kalawan Bantuan Quizizz Kanggo Murid SMP.*

Tujuan tina ieu panalungtikan nyaeta: (1) mikanyaho naha ngaronjatna kamampuh pamikiran kritis matematis murid anu narima modél Pangajaran Berbasis Masalah Bantuan Quizizz leuwih luhur batan murid anu narima modél pangajaran konvensional; (2) Mikanyaho naha kamampuh diri murid anu meunang modél Pangajaran Berbasis Masalah Bantuan Quizizz leuwih hadé batan murid anu meunang modél pangajaran konvensional atawa biasa; (3) Mikanyaho naha aya korélasi antara kamampuh pamikiran kritis matematis jeung Kamampuh diri murid anu meunang modél Pangajaran Berbasis Masalah Bantuan Quizizz. Méthode anu digunakeun dina ieu panalungtikan nyaéta kuasi ékspérimén kalawan desain nonequivalent (pretest-posttest) control group design. Subjek dina ieu panalungtikan nyaéta siswa kelas VIII SMPN 16 Bandung, anu sampelna diwangun ku dua kelas. Dimeunangkeun kelas VIII I salaku kelas ékspérimén anu narima modél Pangajaran Berbasis Masalah Bantuan Quizizz jeung kelas VIII E minangka kelas kontrol anu narima modél pangajaran konvensional. Instrumén anu digunakeun dina ieu panalungtikan nyaéta soal tés kamampuh pamikiran kritis matematik jeung skala kamampuh diri. Data anu dikumpulkeun teras diolah nganggo IBM SPSS 23.0 kanggo parangkat lunak Windows. Dumasar kana hasil analisis data, bisa dicindekkeun yén: (1) ngaronjatna kamampuh pamikiran kritis matematik murid anu narima modél Pangajaran Berbasis Masalah Bantuan Quizizz leuwih luhur batan murid anu narima modél pangajaran konvensional; (2) Kamampuh diri murid anu meunang modél Pangajaran Berbasis Masalah Bantuan Quizizz leuwih alus batan murid anu meunang modél pangajaran konvensional; (3) Aya korélasi anu positif antara kamampuh pamikiran kritis sacara matematis jeung Kamampuh diri murid anu meunangkeun modél Pangajaran Berbasis Masalah Bantuan Quizizz.

Kata Kunci: *Model Pangajaran Berbasis Masalah, Quizizz, Kamampuh Pamikiran Matematik, Kamampuh diri.*