

ABSTRAK

Silvi Dwi Ananda. (2024). **Peningkatan Kemampuan Literasi Matematis dan *Self-regulated Learning* Siswa SMP Melalui Model *Problem Based Learning* Berbantuan *Quizwhizzer*.**

Penelitian ini bertujuan untuk: (1) mengetahui Apakah peningkatan kemampuan literasi matematis siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizwhizzer* lebih baik daripada siswa yang memperoleh model pembelajaran biasa; (2) Apakah *self-regulated learning* siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizwhizzer* lebih baik daripada siswa yang memperoleh model pembelajaran biasa; (3) Apakah terdapat korelasi antara kemampuan literasi matematis dan *self-regulated* siswa dalam pembelajaran matematika dengan model *Problem Based Learning* berbantuan *Quizwhizzer*. 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 29 Bandung, dengan sampel penelitian ini terdiri dari dua kelas. Diperoleh kelas VIII F sebagai kelas eksperimen yang memperoleh model *Problem Based Learning* berbantuan *Quizwhizzer* dan kelas VIII G sebagai kelas kontrol yang memperoleh model pembelajaran biasa. Instrumen yang digunakan dalam penelitian ini berupa soal uraian tes kemampuan literasi matematis dan angket *Self-regulated Learning*. Data yang terkumpul kemudian diolah menggunakan *software IBM SPSS 23.0 for Windows*. Berdasarkan hasil analisis data diperoleh kesimpulan bahwa: (1) Peningkatan kemampuan literasi matematis siswa yang memperoleh model *Problem Based Learning* berbantuan *Quizwhizzer* lebih baik daripada peningkatan kemampuan literasi matematis siswa yang memperoleh model pembelajaran biasa; (2) *Self-regulated learning* siswa yang memperoleh model *Problem Based Learning* berbantuan *quizwhizzer* lebih baik daripada siswa yang memperoleh model pembelajaran biasa; (3) Terdapat korelasi antara kemampuan literasi matematis dan *self-regulated learning* siswa yang memperoleh model *Problem Based Learning*, dengan koefisien korelasi dari sampel $r = 0,171$ yang berarti korelasinya sangat rendah.

Kata Kunci : *Problem Based Learning (PBL)*, *Quizwhizzer*, Literasi Matematis, *self-regulated*.

ABSTRACT

Silvi Dwi Ananda. (2024). *Improving the Mathematical Literacy and Self-regulated Learning Abilities of Middle School Students Through the Problem Based Learning Model Assisted by Quizwhizzer.*

This research aims to: (1) find out whether the increase in mathematical literacy skills of students who receive the Problem Based Learning model assisted by Quizwhizzer is better than students who receive the regular learning model; (2) Is the self-regulated learning of students who receive the Problem Based Learning model assisted by Quizwhizzer better than students who receive the regular learning model; (3) Is there a correlation between students' mathematical literacy and self-regulated abilities in learning mathematics using the Problem Based Learning model assisted by Quizwhizzer. The method used in this research is quasi-experimental with a nonequivalent (pretest-posttest) control group design. The subjects of this research were class VIII students at SMPN 29 Bandung, with the research sample consisting of two classes. It was found that class VIII F was the experimental class which received the Problem Based Learning model assisted by Quizwhizzer and class VIII G was the control class which received the normal learning model. The instruments used in this research were questions describing mathematical literacy ability tests and Self-regulated Learning questionnaires. The collected data was then processed using IBM SPSS 23.0 for Windows software. Based on the results of data analysis, it was concluded that: (1) Increasing the mathematical literacy skills of students who received the Problem Based Learning model assisted by Quizwhizzer was better than increasing the mathematical literacy skills of students who received the regular learning model; (2) Self-regulated learning of students who receive the Problem Based Learning model assisted by quizwhizzer is better than students who receive the regular learning model; (3) There is a correlation between mathematical literacy abilities and self-regulated learning of students who receive the Problem Based Learning model, with a correlation coefficient for the sample $r = 0.171$, which means the correlation is very low.

Keywords: Problem Based Learning (PBL), Quizwhizzer, Mathematical Literacy, self-regulated.

ABSTRAK

Silvi Dwi Ananda. (2024). Ngaronjatkeun Kamampuh Literasi Matématika jeung Kamampuh Diajar Mandiri Siswa SMP Ngaliwatan Modél Pangajaran Berbasis Masalah Dibantuan ku Quizwhizzer.

Tujuan tina ieu panalungtikan nyaéta: (1) mikanyaho naha ngaronjatna kamampuh literasi matematis murid anu narima modél Pangajaran Berbasis Masalah Bantuan Quizwhizzer leuwih sae batan murid anu narima modél pangajaran biasa; (2) Mikanyaho naha kamampuh diajar mandiri murid anu meunang model Pangajaran Berbasis Masalah Bantuan Quizwhizzer leuwih hadé batan murid anu meunang modél pangajaran biasa; (3) Mikanyaho naha aya korélasi antara kamampuh literasi matematis jeung kamampuh ngatur diri anu meunang modél Pangajaran Berbasis Masalah Bantuan Quizwhizzer. Métode 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 29 Bandung, anu sampelna diwangun ku dua kelas. Dimeunangkeun kelas VIII F salaku kelas ékspérimén anu narima modél Pangajaran Berbasis Masalah Bantuan Quizwhizzer jeung kelas VIII G minangka kelas kontrol anu narima modél pangajaran biasa. Instrumén anu digunakeun dina ieu panalungtikan nyaéta soal tést kamampuh pamikiran kritis matematik jeung angket kamandirian 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 literasi matematik murid anu narima modél Pangajaran Berbasis Masalah Bantuan Quizwhizzer leuwih sae batan murid anu narima modél pangajaran biasa; (2) kamandirian diri murid anu meunang modél Pangajaran Berbasis Masalah Bantuan Quizwhizzer leuwih alus batan murid anu meunang modél pangajaran biasa; (3) aya korélasi antara literasi matematik jeung diajar mandiri anu narima model Pangajaran Berbasis Masalah, kalawan koefisien korélasi pikeun sampel $r = 0,171$, hartina korelasina kagolong kriteria rendah pisan.

Kata Kunci: pangajaran Berbasis Masalah, Quizwhizzer, Kamampuh Literasi Matematik, Kamandirian diri