ABSTRAK

ADELLYA OCTAVIANI SUPARMAN. **Peningkatan Kemampuan Berpikir Kritis Matematis dan *Self-Confidence* Siswa SMA melalui Model *Problem-Based Learning* Berbantuan *Quizizz***

Model pembelajaran yang kurang tepat mengakibatkan kurang efektifnya kegiatan pembelajaran dan tidak tercapainya tujuan pembelajaran yang diinginkan. Oleh karena itu, perlu adanya pembaharuan dalam penggunaan model dan media pembelajaran di sekolah agar kegiatan pembelajaran menjadi lebih efektif dan optimal. Tujuan pada penelitian ini adalah untuk : 1) mengetahui kemampuan berpikir kritis matematis siswa yang memperoleh model *Problem-Based Learning* berbantuan *quizizz* apakah lebih tinggi daripada siswa yang memperoleh model pembelajaran konvensional. 2) mengetahui apakah *self-confidence* siswa yang memperoleh model *Problem-Based Learning* berbantuan *quizizz* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional. 3) mengetahui korelasi antara kemampuan berpikir kritis matematis dan *self-confidence* siswa yang memperoleh model *Problem-Based Learning* berbantuan *quizizz*. 4) mengetahui efektivitas model *Problem-Based Learning* berbantuan *quizizz* terhadap peningkatan kemampuan berpikir kritis matematis siswa. 5) mengetahui efektivitas model *Problem-Based Learning* berbantuan *quizizz* terhadap *self-confidence* siswa. Metode yang digunakan dalam penelitian ini adalah metode penelitian eksperimen semu (*quasi eksperiment*) dengan desain penelitian *non-equivalent control group desain*. Subjek dari penelitian ini adalah siswa kelas X SMA Negeri 1 Banjaran tahun ajaran 2023/2024 sebanyak 2 kelas yang dipilih berdasarkan pertimbangan. Instrumen penelitian yang digunakan berupa tes kemampuan berpikir kritis matematis dan angket *self-confidence* yang sudah divalidasi keandalannya. Hasil penelitian menunjukkan bahwa: 1) Peningkatan kemampuan berpikir kritis matematis siswa yang memperoleh model *Problem-Based Learning* berbantuan *Quizizz* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional. 2) *Self-confidence* siswa yang memperoleh model *Problem-Based Learning* berbantuan *Quizizz* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional. 3) Terdapat korelasi positif antara kemampuan berpikir kritis matematis dan *Self-confidence* siswa yang memperoleh model *Problem-Based Learning* berbantuan *Quizizz*. 4) Efektivitas model *Problem-Based Learning* berbantuan *Quizizz* terhadap peningkatan kemampuan berpikir kritis matematis siswa berkategori sedang. 5) Efektivitas model *Problem-Based Learning* berbantuan *Quizizz* terhadap *Self-confidence* siswa berkategori sedang.

Kata Kunci : Kemampuan Berpikir Kritis Matematis, *Self-Confidence, Problem-Based Learning, Quizizz*.

ABSTRACT

ADELLYA OCTAVIANI SUPARMAN. *Enhanced Mathematical Critical Thinking and Self-Confidence of High School Students Through Problem-Based Learning Model Assisted by Quizizz.*

Inappropriate learning models result in less effective learning activities and failure to achieve the desired learning objectives. Therefore, there is a need for innovation in using learning models and media in schools to make learning activities more effective and optimal. The aim of this study is to: 1) find out whether students who obtained the Problem-Based Learning model have higher mathematical critical thinking abilities than students who gained the conventional learning model. 2) find out if the self-confidence of students who acquired the problem-based learning model is better than the students who achieved the traditional learning model; 3) find out the correlation between the ability of students to think mathematically critically and confidence in themselves who obtain a problem-based learning model with the help of the Quizizz. 4) find out how effective the problem-based learning model helps Quizizz to improve students' ability to think critically in mathematics. 5) find out about the effectiveness of the Problem-Based Learning model with the help of Quizizz towards students' self-confidence. The method used in this research is the experimental research method (quasi-experiment) with a non-equivalent control group design. Subjects of this study are students of Class X State High School 1 Banjaran school year 2023/2024 of 2 classes selected based on consideration. The research instrument used was a test of mathematical critical thinking ability and self-confidence lifting. The study results show that: 1) Improved mathematical critical thinking ability of students who obtained the Problem-Based Learning model assisted by Quizizz better than students who gained the conventional learning model. 2) Self-confidence of students obtaining the Problems-based Learning model supported by Quizizz is better than that of students acquiring the traditional learning models. 3) There is a positive correlation between the ability to think critically mathematically and the self-confidence of students that obtain the Problem-Based learning model assisting Quizizz. 4) The effectiveness of the Problem-Based Learning model aided Quizizz in improving the ability of critical mathematic thinking of students of the middle class.

Keywords*: Mathematical Critical Thinking, Self-Confidence, Problem-Based Learning, Quizizz.*

RINGKESAN

ADELLYA OCTAVIANI SUPARMAN. *Kanaekan Pangabisa Mikir Kritis sarta Self-Confidence Siswa SMA ngaliwatan Model Problem-Based Learning Berbantuan Quizizz.*

Model pangajaran anu kirang pas ngabalukarkeun kirang efektifna kagiatan pangajaran sarta henteu kahontal na tujuan pangajaran anu dipikahayang ku margi eta, peryogi kitu kaayaanana pembaharuan dina pamakean model sarta media pangajaran di sakola supados kagiatan pangajaran barobah kaayaan langkung efektif sarta optimal. Tujuan dina panalungtikan ieu teh kanggo : 1) terang pangabisa mikir kritis matematis siswa anu meunang model Problem-Based Learning berbantuan quizizz apakah langkung luhur batan siswa anu meunang model pangajaran konvensional. 2) terang apakah self-confidence siswa anu meunang model Problem-Based Learning berbantuan quizizz mending batan siswa anu meunang model pangajaran konvensional. 3) terang korelasi antawis pangabisa mikir kritis matematis sarta self-confidence siswa anu meunang model Problem-Based Learning berbantuan quizizz. 4) terang efektivitas model Problem-Based Learning berbantuan quizizz ka kanaekan pangabisa mikir kritis matematis siswa. 5) terang efektivitas model Problem-Based Learning berbantuan quizizz ka self-confidence siswa. Padika anu dipake dina panalungtikan ieu teh padika panalungtikan eksperimen semu (quasi eksperiment) kalawan desain panalungtikan non-equivalent control group desain. Jejer ti panalungtikan ieu teh siswa kelas X SMA Nagari 1 Banjaran warsih pituduh 2023/2024 saloba 2 kelas anu dipilih dumasar wiwaha. Instrumen panalungtikan anu dipake mangrupi tes pangabisa mikir kritis matematis sarta angket self-confidence. Kenging panalungtikan nembongkeun bahwa: 1) Kanaekan pangabisa mikir kritis matematis siswa anu meunang model Problem-Based Learning berbantuan Quizizz mending batan siswa anu meunang model pangajaran konvensional. 2) Self-confidence siswa anu meunang model Problem-Based Learning berbantuan Quizizz mending batan siswa anu meunang model pangajaran konvensional. 3) Aya korelasi positip antawis pangabisa mikir kritis matematis sarta Self-confidence siswa anu meunang model Problem-Based Learning berbantuan Quizizz. 4) Efektivitas model Problem-Based Learning berbantuan Quizizz ka kanaekan pangabisa mikir kritis matematis siswa berkategori sedeng. 5) Efektivitas model Problem-Based Learning berbantuan Quizizz ka Self-confidence siswa berkategori sedeng.

Kecap Konci *: Pangabisa Mikir Kritis Matematis, Self-Confidence, Problem-Based Learning, Quizizz.*