

ABSTRAK

Anbar Cantiqha Jauza. (2024). **Kemampuan Berpikir Kritis Matematis dan *Self-efficacy* Siswa SMA Melalui Model *Problem-Based Learning* Berbantuan *Math City Map*.**

Penelitian ini bertujuan untuk: (1) Mengetahui peningkatan kemampuan berpikir kritis matematis siswa melalui model *Problem-Based Learning* berbantuan *Math City Map* lebih tinggi daripada siswa yang memperoleh model pembelajaran konvensional; (2) Mengetahui *self-efficacy* siswa yang memperoleh model *Problem-Based Learning* berbantuan *Math City Map* lebih baik daripada siswa yang memperoleh model pembelajaran konvensional; (3) Mengetahui adanya korelasi antara peningkatan kemampuan berpikir kritis matematis dengan *self-efficacy* siswa yang memperoleh model *Problem-Based Learning* berbantuan *Math City Map*. Metode yang digunakan dalam penelitian ini adalah kuasi eksperimen dengan desain penelitian *non-equivalent control group design*. Sampel penelitian terdiri atas dua kelas yaitu Kelas XI E sebagai kelas eksperimen yang mendapatkan perlakuan dengan model *Problem-Based Learning* berbantuan *Math City Map* dan Kelas XI A sebagai kelas kontrol yang mendapatkan model pembelajaran konvensional. Penelitian ini menggunakan instrumen tes berupa soal uraian kemampuan berpikir kritis matematis dan instrumen non-tes berupa angket *self-efficacy*. Data yang telah terkumpul kemudian diolah menggunakan perangkat lunak *IBM SPSS 23.0 for Windows 10*. Hasil penelitian menunjukkan bahwa: (1) Terdapat peningkatan kemampuan berpikir kritis matematis siswa melalui model *Problem-Based Learning* berbantuan *Math City Map* lebih tinggi daripada siswa yang memperoleh model pembelajaran konvensional; (2) *Self-efficacy* siswa yang memperoleh model *Problem-Based Learning* berbantuan *Math City Map* lebih baik dari pada siswa yang memperoleh model pembelajaran konvensional; (3) Terdapat korelasi positif antara peningkatan kemampuan berpikir kritis matematis dengan *Self-efficacy* siswa yang memperoleh model *Problem-Based Learning* berbantuan *Math City Map*.

Kata Kunci: Kemampuan Berpikir Kritis Matematis, *Self-efficacy*, *Problem-Based Learning*, *Math City Map*.

ABSTRACT

Anbar Cantiqha Jauza. (2024). ***Mathematical Critical Thinking Ability and Self-efficacy of High School Students Through the Problem-Based Learning Model Assisted by Math City Map.***

This study aims to: (1) Determine that the improvement of students' mathematical critical thinking skills through the Problem-Based Learning model assisted by Math City Map is higher than that of students who obtain conventional learning models; (2) Knowing the self-efficacy of students who obtained the Problem-Based Learning model assisted by Math City Map better than students who obtained the conventional learning model; (3) To find out the correlation between the improvement of mathematical critical thinking skills and the self-efficacy of students who obtained the Problem-Based Learning model assisted by Math City Map. The method used in this study is a quasi-experiment with a non-equivalent control group design research design. The research sample consisted of two classes, namely Class XI E as an experimental class that received treatment with the Problem-Based Learning model assisted by Math City Map and Class XI A as a control class that received a conventional learning model. This study uses a test instrument in the form of a description of mathematical critical thinking skills and a non-test instrument in the form of a self-efficacy questionnaire. The collected data is then processed using IBM SPSS 23.0 for Windows 10 software. The results of the study showed that: (1) There was an increase in students' mathematical critical thinking skills through the Problem-Based Learning model assisted by Math City Map higher than that of students who obtained the conventional learning model; (2) The self-efficacy of students who obtained the Problem-Based Learning model assisted by Math City Map was better than that of students who obtained the conventional learning model; (3) There is a positive correlation between the improvement of mathematical critical thinking skills and the self-efficacy of students who obtained the Problem-Based Learning model assisted by Math City Map.

Keywords: *Mathematical Critical Thinking Ability, Self-efficacy, Problem-Based Learning, Math City Map.*

RINGKESAN

Anbar Cantiqha Jauza. (2024). **Kamampuh Mikir Kritis Matematika jeung *Sélf-éfficity* Siswa SMA Ngagunakeun Modél *Problem-Based Learning* Dibantuan *Math City Map*.**

Ieu panalungtikan miboga tujuan pikeun: (1) Mikanyaho ngaronjatna kamampuh mikir kritis matematis siswa anu narima modél *Problem-Based Learning* dibantuan *Math City Map* leuwih luhur batan siswa anu narima modél pangajaran konvensional; (2) Mikanyaho *self-efficacy* siswa anu narima modél *Problem-Based Learning* dibantuan *Math City Map* leuwih alus batan siswa anu narima modél pangajaran konvensional. (3) Mikanyaho aya patali anu positif antara ngaronjatna kamampuh mikir kritis sareng *self-efficacy* siswa anu narima modél *Problem-Based Learning* dibantuan *Math City Map*. Métode anu digunakeun dina ieu panalungtikan nyaéta métode kuasi ékspérimén kalawan desain *non-equivalent control group design*. Sampel panalungtikan diwangun ku 2 kelas, nyaéta Kelas XI E salaku kelas ékspérimén anu narima modél *Problem-Based Learning* dibantuan *Math City Map* sareng Kelas XI A salaku kelas kontrol anu narima modél pangajaran konvensional. Instrumén anu digunakeun dina ieu panalungtikan nyaéta instrumén tés soal anu ngadéskripsikeun kamampuh mikir kritis matematis jeung instrumén non-tés angkét *self-efficacy*. Data anu dikumpulkeun saterasna diolah ngagunakeun parangkat lunak *IBM SPSS 23.0 for Windows 10*. Hasilna nuduhkeun yén: (1) Ngaronjatna kamampuh mikir kritis matematis siswa anu narima modél *Problem-Based Learning* dibantuan *Math City Map* leuwih luhur batan siswa anu narima modél pangajaran konvensional; (2) *Self-efficacy* siswa anu narima modél *Problem-Based Learning* dibantuan *Math City Map* leuwih alus batan siswa anu narima modél pangajaran konvensional; (3) Aya patali anu positif antara ngaronjatna kamampuh mikir kritis matematis sareng *self-efficacy* siswa anu narima modél *Problem-Based Learning* dibantuan *Math City Map*.

Kecap Konci: Kamampuh Mikir Kritis Matematis, *Self-efficacy*, *Problem-Based Learning*, *Math City Map*.