

Pengaruh Model Pembelajaran *Problem Based Learning* (PBL) Berbantuan Aplikasi *Classcraft* Terhadap Berpikir Kritis Matematis Siswa Kelas XI MA Hidayatullah

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ABSTRAK

Kajian ini didasarkan pada rendahnya kemampuan berpikir kritis matematis siswa sehingga menyebabkan kekurangmampuan siswa dalam menyelesaikan masalah matematika. Hal ini disebabkan kurang mampunya siswa dalam mengidentifikasi masalah, menganalisis, mengevaluasi, dan menarik sebuah kesimpulan dalam pemecahan masalah matematika. Tujuan kajian ini ialah mencari tahu pengaruh model pembelajaran *problem based learning* (PBL) berbantuan aplikasi *classcraft* terhadap peningkatan kemampuan berpikir kritis matematis siswa. Jenis kajian ini ialah *Quasi experiment* dengan menggunakan desain *Post Test Only Control Group Design*. Populasi dari kajian ini tersusun atas 4 kelas yakni kelas XI IPS 1, XI IPS 2, XI IPS 3, XI IPS 4 di MA Hidayatullah, yang kemudian ditentukan sampel mempergunakan teknik *Cluster Random Sampling* sehingga diperoleh 2 kelas selaku sampel penelitian yakni kelas XI IPS 2 selaku kelas eksperimen dan kelas XI IPS 3 selaku kelas kontrol. Setelah data terkumpul, teknik analisis data mempergunakan Uji T – *one way* dengan taraf signifikansi 5%. Berlandaskan pada hasil analisis kajian didapat $t_{hitung} = 7.419 > t_{tabel} = 1.672$. Hasil ini mengindikasikan bahwasanya kemampuan berpikir matematis peserta didik yang ikut dalam kegiatan belajar mempergunakan model PBL berbantuan aplikasi *classcraft* lebih baik dibandingkan kemampuan berpikir kritis matematis peserta didik dengan kegiatan belajar konvensional. Maka, model pembelajaran PBL memberi dampak secara positif terhadap kemampuan berpikir kritis matematis peserta didik kelas XI di MA Hidayatullah.

Kata Kunci : berpikir kritis matematis siswa, *Problem Based Learning*, matematika

**THE INFLUENCE OF PROBLEM-BASED LEARNING MODEL (PBL)
AIDED BY CLASSCRAFT APPLICATION ON MATHEMATICAL
CRITICAL THINKING OF STUDENTS IN GRADE XI MA
HIDAYATHOLULA**

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ABSTRACT

This study is based on the low mathematical critical thinking skills of students, causing students' inability to solve mathematical problems. This is due to students' inability to identify problems, analyze, evaluate, and draw a conclusion in solving mathematical problems. The purpose of this study is to find out the effect of problem-based learning (PBL) learning model assisted by classcraft application on improving students' mathematical critical thinking skills. This type of study is a Quasi experiment using Post Test Only Control Group Design. The population of this study is composed of 4 classes, namely class XI IPS 1, XI IPS 2, XI IPS 3, XI IPS 4 at MA Hidayatullah, which then determined the sample using the Cluster Random Sampling technique so that 2 classes were obtained as research samples, namely class XI IPS 2 as the experimental class and class XI IPS 3 as the control class. After the data is collected, the data analysis technique uses the T test - one way with a significance level of 5%. Based on the results of the study analysis obtained $t_{hitung} = 7.419 > t_{table} = 1.672$. These results indicate that the mathematical thinking ability of students who participate in learning activities using PBL models made from classcraft applications is better than the mathematical critical thinking ability of students with conventional learning activities. Thus, the PBL learning model has a positive impact on the mathematical critical thinking ability of grade XI students at MA Hidayatullah.

Keywords: *students' mathematical critical thinking, Problem Based Learning, mathematics*