

ABSTRAK

Ayi Muqodas, “ Peningkatan Kemampuan Pemahaman Matematis Siswa Melalui *Blended Learning* Berbantuan Aplikasi *Smart Apps Creator* untuk Meningkatkan Kemampuan Pemahaman Matematis Siswa dan Kemandirian belajar ”. (Penelitian Kuasi Eksperimen)

Kemampuan pemahaman matematis dan kemandirian belajar salah satu *skill* yang harus dimiliki oleh siswa. Namun realita sebagian siswa masih rendah kemampuan tersebut dan perlu ditingkatkan Tujuan dari penelitian ini adalah untuk meningkatkan Kemampuan Pemahaman Matematis Siswa dan Kemandirian belajar melalui *blended learning* berbantuan aplikasi *smart apps creator*. Penelitian ini dilakukan di SMP Islam Darul Hikmah Tasikmalaya pada kelas VIII-A dan VIII-B dengan metode kuasi eksperimen, instrumen yang digunakan adalah tes kemampuan pemahaman matematis dan penyebaran angket. Berdasarkan pengolahan data, diperoleh hasil sebagai berikut : lintasan proses pembelajaran *blended learning* berbantuan aplikasi *smart apps creator* berada dalam kategori baik, terdapat perbedaan peningkatan kemampuan pemahaman matematis antara siswa laki-laki dan siswa perempuan, terdapat perbedaan pencapaian kemampuan pemahaman matematis antara siswa menggunakan pembelajaran *blended learning* dengan siswa yang menggunakan pembelajaran konvensional, kemandirian belajar siswa mengalami peningkatan pada kelas eksperimen berada pada kategori sedang, dan terdapat sikap positif siswa terhadap pembelajaran menggunakan metode *blended learning* berbantuan aplikasi *smart apps creator* yang berada pada kategori baik.

Kata Kunci : *Blended Learning*, Kemampuan Pemahaman Matematis, Kemandirian Belajar.

ABSTRACT

Ayi Muqodas, "Improving Students' Mathematical Understanding Ability Through Blended Learning Assisted by the Smart Apps Creator Application to Improve Students' Mathematical Understanding Ability and Learning Independence." (Quasi Experimental Research)

The ability to understand mathematics and independent learning is one of the skills that students must have. However, the reality is that some students still have low levels of this ability and need to improve it. The aim of this research is to improve students' mathematical understanding abilities and learning independence through blended learning assisted by the smart apps creator application. This research was conducted at Darul Hikmah Tasikmalaya Islamic Middle School in classes VIII-A and VIII-B using a quasi-experimental method, the instruments used were tests of mathematical understanding ability and distribution of questionnaires. Based on data processing, the following results were obtained: the trajectory of the blended learning learning process assisted by the smart apps creator application is in the good category, there is a difference in the increase in mathematical understanding abilities between male and female students, there is a difference in the achievement of mathematical understanding abilities between students using blended learning learning with students who use conventional learning, student learning independence has increased in the experimental class which is in the medium category, and there is a positive attitude of students towards learning using the blended learning method assisted by the smart apps creator application which is in the good category.

Keywords: *Blended Learning, Mathematical Understanding Ability, Learning Independence.*