

**PENGARUH MODEL *PROBLEM BASED LEARNING* (PBL)
BERBANTUAN APLIKASI *WORDWALL* TERHADAP
KEMAMPUAN PEMAHAMAN KONSEP
MATEMATIS KELAS IV SD**

**YANNI FITRIYANNI
215060098**

ABSTRAK

Penelitian ini di latar belakang oleh rendahnya kemampuan pemahaman konsep matematis peserta didik di SDN 128 Haurpancu. Tujuan dari penelitian ini adalah untuk (1) mengetahui gambaran proses pembelajaran, (2) mengetahui perbedaan rata-rata kemampuan pemahaman matematis peserta didik yang menggunakan model Problem Based Learning (PBL) berbantuan aplikasi Wordwall, dan (3) mengetahui peningkatan kemampuan pemahaman konsep matematis dengan menggunakan model Problem Based Learning (PBL) berbantuan aplikasi Wordwall, (4) mengetahui seberapa besar pengaruh penggunaan model Problem Based Learning (PBL) berbantuan aplikasi Wordwall terhadap kemampuan pemahaman konsep matematis peserta didik kelas IV sekolah dasar. Metode penelitian yang digunakan yaitu quasi eksperiment dengan desain nonequivalent control grup design. Sampel penelitian berjumlah 42 orang peserta didik yang terbagi dalam dua kelompok, yaitu kelompok eksperimen 21 orang peserta didik dan kelompok kontrol 21 orang peserta didik. Berdasarkan hasil penelitian dapat diperoleh bahwa (1) gambaran proses pembelajaran dengan lancar sesuai dengan tahapan, (2) terdapat perbedaan rata-rata signifikan kemampuan pemahaman matematis yang menggunakan model Problem Based Learning (PBL) berbantuan aplikasi Wordwall, dan (3) terdapat peningkatan pada penggunaan model Problem Based Learning (PBL) berbantuan aplikasi Wordwall dengan nilai 0,5401 dalam uji N-gain dengan kategori cukup, (4) terdapat pengaruh pada menggunakan model Problem Based Learning (PBL) berbantuan aplikasi Wordwall dengan nilai 0,666 dalam uji effect size dengan kategori sedang. Sehingga dapat disimpulkan bahwa terdapat pengaruh penggunaan menggunakan model Problem Based Learning (PBL) berbantuan aplikasi Wordwall terhadap kemampuan pemahaman konsep matematis kelas IV SD.

Kata Kunci: Pemahaman Konsep Matematis, *Problem Based Learning* (PBL), media Aplikasi *Wordwall* Siswa Sekolah Dasar.

**THE EFFECT OF PROBLEM BASED LEARNING (PBL) MODEL
USING WORDWALL APPLICATION ON THE ABILITY OF
COMPREHENSION OF MATHEMATICAL CONCEPTS
OF GRADE IV ELEMENTARY SCHOOL STUDENTS**

YANNI FITRIYANNI

215060098

ABSTRACT

This research is motivated by the low ability of students' mathematical concept understanding at SDN 128 Haurpancuh. The purpose of this study is to (1) find out the description of the learning process, (2) find out the difference in the average mathematical understanding ability of students who use the Problem Based Learning (PBL) model assisted by the Wordwall application, and (3) find out the increase in mathematical concept understanding ability by using the Problem Based Learning (PBL) model assisted by the Wordwall application, (4) find out how much influence the use of the Problem Based Learning (PBL) model assisted by the Wordwall application has on the mathematical concept understanding ability of grade IV elementary school students. The research method used was a quasi-experimental design with a nonequivalent control group design. The research sample consisted of 42 students divided into two groups, namely the experimental group of 21 students and the control group of 21 students. Based on the research results, it can be obtained that (1) the picture of the learning process is smooth according to the stages, (2) there is a significant difference in the average mathematical understanding ability using the Problem Based Learning (PBL) model assisted by the Wordwall application, and (3) there is an increase in the use of the Problem Based Learning (PBL) model assisted by the Wordwall application with a value of 0.5401 in the N-gain test with a sufficient category, (4) there is an influence on using the Problem Based Learning (PBL) model assisted by the Wordwall application with a value of 0.666 in the effect size test with a moderate category. So it can be concluded that there is an influence of using the Problem Based Learning (PBL) model assisted by the Wordwall application on the mathematical concept understanding ability of grade IV SD.

Keywords: Understanding of Mathematical Concepts, Problem Based Learning (PBL), Wordwall Application Media for Elementary School Students.

**PANGARUH MODÉL PROBLEM BASED LEARNING (PBL)
DIBANTUAN KU APLIKASI WORDWALL DINA KAMAMPUH
MAHARÉHAN KONSEP MATEMATIKA MURID SD KELAS IV**

YANNI FITRIYANNI

215060098

ABSTRAK

Ieu panalungtikan didasaran ku handapna kamampuh pamahaman konsep matematika siswa di SDN 128 Haurpancu. Tujuan tina ieu panalungtikan nya éta pikeun (1) mikanyaho déskripsi prosés pangajaran, (2) mikanyaho béda rata-rata kamampuh pamahaman matematika siswa ngagunakeun modél Problem Based Learning (PBL) dibantuan ku aplikasi Wordwall, jeung (3) mikanyaho ngaronjatna kamampuh pamahaman konsép matematik siswa ngagunakeun modél Problem Based Learning (PBL) dibantuan ku ngagunakeun modél Problem Based Learning (PBL) dibantuan ku ngagunakeun modél Problem Based Learning (PBL) dibantuan ku ngagunakeun modél Problem Based Learning (PBL), (4) aplikasi Wordwall miboga kamampuh pamahaman konsép matematik siswa kelas IV SD. Méthode panalungtikan anu digunakeun nya éta desain kuasi ékspérimén kalawan desain nonequivalent control group. Sampel panalungtikan aya 42 siswa dibagi jadi dua kelompok, nya éta kelompok ékspérimén 21 siswa jeung kelompok kontrol 21 siswa. Dumasar kana hasil panalungtikan, bisa dicindekkeun yén (1) gambaran prosés pangajaran lancar nurutkeun tahapan-tahapan, (2) aya béda anu signifikan dina rata-rata kamampuh pamahaman matematis ngagunakeun modél Problem Based Learning (PBL) dibantuan ku aplikasi Wordwall, jeung (3) aya paningkatan dina ngagunakeun modél Problem Based Learning (PBL) dibantuan ku aplikasi Wordwall kalawan nilai t_{hitung} a540 sacukupna dina kategori N_{10} , jeung t_{tabel} a540 cukup. (4) aya pangaruh kana ngagunakeun modél Problem Based Learning (PBL) dibantuan ku aplikasi Wordwall kalawan $peunteun$ 0,666 dina uji effect size kalawan katégori sedeng. Ku kituna bisa dicindekkeun yén aya pangaruh ngagunakeun modél Problem Based Learning (PBL) dibantuan ku aplikasi Wordwall kana kamampuh pamahaman konsép matematik siswa kelas IV SD.

Kecap Pamageuh: Pemahaman Konsep Matematis, *Problem Based Learning* (PBL), media Aplikasi *Wordwall* Siswa Sekolah Dasar.