

PENGARUH MODEL PEMBELAJARAN KOOPERATIF *GROUP INVESTIGATION* BERBANTUAN MEDIA KARTU BILANGAN TERHADAP KOMPETENSI PENGETAHUAN MATEMATIKA KELAS IV SD DI GUGUS BUDI UTOMO DENPASAR TIMUR

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ABSTRAK

Permasalahan dalam penelitian ini adalah rendahnya kompetensi pengetahuan matematika siswa kelas IV yang ditunjukkan oleh sebagian besar siswa belum mencapai Kriteria Ketercapaian Tujuan Pembelajaran (KKTP) serta belum optimal dalam mengikuti aktivitas pembelajaran. Hal ini disebabkan oleh perbedaan kemampuan siswa dalam memahami materi, khususnya dalam kecepatan daya tangkap. Oleh karena itu, diperlukan inovasi pembelajaran melalui model pembelajaran kooperatif *Group Investigation* berbantuan media kartu bilangan. Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran kooperatif *Group Investigation* berbantuan media kartu bilangan terhadap kompetensi pengetahuan matematika siswa. Penelitian ini merupakan eksperimen semu dengan desain *nonequivalent control group design*. Populasi penelitian adalah seluruh siswa kelas IV yang berjumlah 285 siswa. Sampel ditentukan dengan teknik *cluster random sampling* sehingga diperoleh 64 siswa yang terdiri atas 32 siswa sebagai kelompok eksperimen dan 32 siswa sebagai kelompok kontrol. Data dikumpulkan menggunakan metode tes, dan analisis menggunakan uji-t *pooled variances* setelah memenuhi uji prasyarat normalitas dan homogen. Hasil penelitian menunjukkan bahwa data berdistribusi normal dan memiliki variansi yang homogen. Selanjutnya, rata-rata kompetensi pengetahuan matematika peserta didik pada kelompok eksperimen sebesar 79,88 lebih tinggi dibandingkan kelompok kontrol sebesar 63,25. Hasil tersebut menunjukkan bahwa terdapat perbedaan kompetensi pengetahuan matematika antara peserta didik pada kelompok eksperimen dan kelompok kontrol. Dengan demikian dapat disimpulkan bahwa model pembelajaran kooperatif *Group Investigation* berbantuan media kartu bilangan berpengaruh signifikan terhadap kompetensi pengetahuan matematika siswa kelas IV SD.

Kata Kunci: *Group Investigation*, Kartu Bilangan, Kompetensi Pengetahuan Matematika.

**THE EFFECT OF THE GROUP INVESTIGATION COOPERATIVE
LEARNING MODEL USING NUMBER CARD MEDIA ON THE
MATHEMATICS KNOWLEDGE COMPETENCE OF FOURTHGRADE
ELEMENTARY SCHOOL STUDENTS IN THE BUDI UTOMO CLUSTER,
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ABSTRACT

The problem in this study is the low mathematical knowledge competence of fourth-grade elementary school students in, which is indicated by the majority of students not having achieved the Learning Objectives Achievement Criteria (KKTP) and not being optimal in participating in learning activities. This is caused by differences in students' abilities in understanding the material, especially in the speed of comprehension. Therefore, learning innovation is needed through the Group Investigation cooperative learning model assisted by number cards. This study aims to determine the effect of the Group Investigation cooperative learning model assisted by number cards on students' mathematical knowledge competence. This study is a quasi-experimental study with a nonequivalent control group design. The study population was all fourth-grade elementary school students totaling 285 students. The sample was determined using a cluster random sampling technique so that 64 students were obtained, consisting of 32 students as the experimental group and 32 students as the control group. Data were collected using a test method, and analysis used a pooled variance t-test after fulfilling the prerequisite tests for normality and homogeneity. The results showed that the data were normally distributed and had homogeneous variance. Furthermore, the average mathematical knowledge competency of students in the experimental group was 79.88, higher than the control group at 63.25. These results show that there are differences in mathematical knowledge competencies between students in the experimental group and the control group. Thus, it can be concluded that the Group Investigation cooperative learning model assisted by number cards has a significant effect on the mathematical knowledge competency of fourth-grade elementary school students.

Keywords: *Group Investigation, Number cards, Mathematical Knowledge Competence.*