

**PENGARUH MODEL PEMBELAJARAN  
KOOPERATIF TIPE *NUMBERED HEAD TOGETHER*  
BERBASIS PENILAIAN PORTOFOLIO TERHADAP  
KOMPETENSI PENGETAHUAN MATEMATIKA  
KELAS V SD GUGUS VIII MENGWI  
TAHUN AJARAN 2019/2020**

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui pengaruh model NHT berbasis penilaian portofolio terhadap kompetensi pengetahuan matematika kelas V SD Gugus VIII Mengwi Tahun Ajaran 2019/2020. Penelitian ini merupakan penelitian eksperimen semu dengan rancangan kelompok *non-equivalent control group design*. Populasi pada penelitian adalah seluruh kelas V SD Gugus VIII Mengwi Tahun Ajaran 2019/2020 yang terdiri dari 10 kelas secara keseluruhan berjumlah 244 siswa. Penentuan sampel dalam penelitian menggunakan teknik *random sampling*. Sampel dalam penelitian adalah kelas V SD No. 1 Mengwi sebanyak 34 siswa sebagai kelompok eksperimen dan kelas VA SD No. 3 Mengwi sebanyak 35 siswa sebagai kelompok kontrol. Pada proses pengumpulan data, tes dipilih sebagai instrumen penelitian yang berbentuk tes objektif pilihan ganda biasa, sehingga didapatkan data berupa nilai kompetensi pengetahuan matematika yang berbentuk data kuantitatif, kemudian dianalisis menggunakan analisis uji-t dengan rumus *polled varians*. Rerata nilai kompetensi pengetahuan matematika kelompok eksperimen  $\bar{x}=81,21$  dan kelompok kontrol  $\bar{x}=72,29$ . Hasil analisis data diperoleh  $t_{hitung} = 4,351 > t_{tabel} = 2,000$  ( $\alpha=0,05$  dan  $dk=67$ ) maka  $H_0$  ditolak dan  $H_a$  diterima yang artinya terdapat perbedaan yang signifikan antara kelompok eksperimen dan kelompok kontrol. Sesuai dengan hasil tersebut dapat disimpulkan model NHT berbasis penilaian portofolio berpengaruh terhadap kompetensi pengetahuan matematika kelas V SD Gugus VIII Mengwi Tahun Ajaran 2019/2020.

**Kata Kunci :** Model NHT dan Penilaian Portofolio, Kompetensi Pengetahuan Matematika.

**THE EFFECT OF NUMBERED HEAD TOGETHER COOPERATIVE  
LEARNING MODEL BASED ON PORTFOLIO ASSESSMENT ON THE  
COMPETENCE OF MATHEMATICS KNOWLEDGE OF FIFTH GRADE  
ELEMENTARY SCHOOL CLUSTER VIII MENGWI IN THE ACADEMIC  
YEAR 2019/2020**

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**ABSTRACT**

*This study aimed to find out the effect of the NHT learning model based on the portfolio assessment on the competence of mathematics knowledge of fifth-grade elementary school Cluster VIII Mengwi in the Academic Year 2019/2020. This study was quasi-experiment research with a non-equivalent control group design. The population of this study was all fifth-grade elementary school Cluster VIII Mengwi in the Academic Year 2019/2020, which consisted of ten classes with total students were 244 students. The samples were determined using a random sampling technique. The samples in this study were fifth-grade of SD No. 1 Mengwi with 34 students as the experimental group and fifth-grade A of SD No. 3 Mengwi with 35 students as a control group. In collecting the data, the test was chosen as a research instrument in the form of an ordinary multiple-choice objective test, so that the data obtained was mathematical knowledge competency values in the form of quantitative data. Furthermore, it was analyzed using the t-test analysis with pooled variance formulas. The mean competency value of mathematics knowledge in the experimental group was  $\bar{x}=81,21$  and the control group was  $\bar{x}=72,29$ . The results of data analysis obtained  $t_{count} = 4.351 > t_{table} = 2,000$  ( $\alpha = 0.05$  and  $dk = 67$ ), then  $H_0$  was rejected and  $H_a$  was accepted. It means that there are significant differences between the experimental and control groups. Following these results, it can be concluded that the NHT learning model based on portfolio assessment influences the competence of mathematics knowledge in the fifth-grade elementary school Cluster VIII Mengwi in the Academic Year 2019/2020.*

**Keywords** : NHT learning model and portfolio assessment, Competence of mathematics knowledge