

## **ABSTRAK**

### **PENGARUH MEDIA INTERAKTIF *PhET* TERHADAP KEMAMPUAN BERHITUNG MATERI PECAHAN KELAS IV SEKOLAH DASAR**

**Oleh**

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Rendahnya kemampuan berhitung materi pecahan senilai peserta didik pada mata pelajaran matematika di SDN 1 Tanjung menjadi permasalahan penelitian ini. Tujuan penelitian ini adalah untuk mengetahui pengaruh media interaktif *PhET* terhadap kemampuan berhitung materi pecahan kelas IV sekolah dasar. Penelitian ini menggunakan jenis penelitian kuantitatif metode *quasi eksperimen* dengan desain *non equivalent control group design*. Sampel penelitian terdiri dari 48 peserta didik yang dipilih melalui teknik *purposive sampling* dari total populasi 77 peserta didik. Teknik pengumpulan data menggunakan instrumen tes berupa soal uraian dan non-tes berupa lembar observasi. Analisis data dilakukan dengan uji regresi linier sederhana. Hasil uji regresi linier sederhana menunjukkan bahwa media interaktif *PhET* berpengaruh terhadap kemampuan berhitung materi pecahan senilai peserta didik kelas IV sebesar 74,9%.

Kata kunci: kemampuan berhitung, matematika, media interaktif *PhET*

## **ABSTRAK**

### **THE EFFECT OF PhET INTERACTIVE MEDIA ON THE ABILITY TO CALCULATE FRACTIONS MATERIAL IN GRADE IV ELEMENTARY SCHOOL**

**By**

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The low ability to calculate fractional material worth of students in mathematics subjects at SDN 1 Tanjungan was the problem of this research. The purpose of this study was to determine the influence of PhET interactive media on the ability to calculate fractional material in grade IV elementary school. This study used a type of quantitative research with a quasi experiment method with a non-equivalent control group design. The research sample consisted of 48 students who were selected through purposive sampling techniques from a total population of 77 students. The data collection technique used test instruments in the form of description questions and non-tests in the form of observation sheets. Data analysis was carried out by simple linear regression test. The results of a simple linear regression test showed that PhET interactive media had an effect on the ability to calculate fractional material worth of grade IV students by 74.9%.

Keywords: ability to calculate, mathematics, PhET interactive media