

**PENGEMBANGAN MODUL MATEMATIKA BERBASIS SAINTIFIK MATERI
PECAHAN UNTUK KELAS IV SEKOLAH DASAR**

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ABSTRAK

Penelitian dan pengembangan ini bertujuan untuk menghasilkan modul matematika berbasis saintifik materi pecahan untuk kelas IV sekolah dasar. Penelitian dilaksanakan di kelas IV SDN Cipinang Melayu 07 Pagi, Jakarta Timur pada bulan Agustus 2018 sampai Juli 2019. Metode penelitian yang digunakan adalah metode penelitian dan pengembangan (*R&D*) dengan model pengembangan Rowntree. Terdapat tiga tahap penelitian dan pengembangan ini yaitu tahap perencanaan, tahap persiapan penulisan, dan tahap penulisan dan penyuntingan. Teknik pengumpulan data melalui wawancara dan kuesioner. Responden pengembangan ini di antaranya, satu dosen ahli materi, satu dosen ahli media, satu dosen ahli bahasa, pendidik kelas IV sekolah dasar, dan peserta didik kelas IV SDN Cipinang Melayu 07 Pagi, Jakarta Timur berjumlah 26 orang. Hasil penelitian menunjukkan bahwa modul matematika berbasis saintifik pada materi pecahan untuk kelas IV sekolah dasar ini dinilai sangat baik, hal ini terlihat dari rata-rata menurut para ahli sebesar 91,27% dan hasil kuesioner peserta didik sebesar 89,04% Modul matematika ini termasuk dalam kriteria sangat baik, sehingga layak digunakan sebagai sumber belajar matematika yang digunakan peserta didik untuk mempelajari materi pecahan.

**Kata kunci: Modul Pendekatan Saintifik, Pembelajaran Matematika,
Pecahan**

**DEVELOPMENT OF MATHEMATICAL MODULE BASED SAINTIFICIAL
APPROACH ON FRACTION FOR FOURTH GRADE ELEMENTARY
SCHOOL**

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ABSTRACT

This research and development aims to create a scientifically based mathematical module in fractions for grade IV of elementary school. The research was conducted in class IV of Cipinang Melayu 07 Pagi Elementary School, East Jakarta in August 2018 until July 2019. The research method used was research and development (R & D) method with the Rowntree development model. These three studies and developments are needed, namely planning, preparation, and preparation and editing. The technique of collecting data through interviews and questionnaires. Responding to this development was approved, one material expert lecturer, one media expert lecturer, one linguist lecturer, fourth grade educator in elementary school, and fourth grade students at Cipinang Melayu 07 Pagi Elementary School, East Jakarta which held 26 people. The results showed that the scientific-based mathematical module in the fraction material for class IV of elementary school was very good, this was seen from the average according to experts of 91.27% and the results of the questionnaire of students was 89.04% This math module was included in the criteria very good, very worthy of being used as a mathematics learning resource used by students for fraction material participants.

Keywords: **Scientific Approach Module, Mathematics Learning, Fractions**