

## ABSTRACT

Development of Teaching Materials for Calculation Operations of Multiplication and Division through Indonesian Realistic Mathematics Education (PMRI) for Class IV SDN 1 Kelayu Utara using questionnaire test techniques, and documentation. The subjects of this research were fourth grade students of SDN 1 Kelayu Utara, totaling 7 students. The type of research in this thesis is using research and development method (Walter Dick and Lou Carey). This research aims to be able to produce a product in the form of a teaching material book, so it uses research that is a needs analysis and to test the effectiveness of the product so that it can function in schools. Testing of this teaching material is carried out by means of a series of systematic developments, namely the needs analysis stage, the learning analysis stage, the learner and context analysis stage, the stage of compiling specific general objectives, the instrument development stage, the stage of developing learning strategies, the stage of developing and selecting learning materials, the stage of designing and conducting formative evaluations, and the stage of making revisions. Data collection tools include media expert validation sheets, material expert validation sheets, response questionnaires and product validity results. The results of the media expert obtained a score of  $84 > 83.99$  in the good category, while the validation results of the material expert obtained a score of  $87 > 83.99$  in the very good category, while the results of student responses to PMRI-based mathematics teaching materials obtained a score of  $51 < 52 \leq 63$  with a good category, then the product validity results show that student learning completion is at a percentage of 86% and is declared classically complete.

**Keywords:** Textbook, PMRI, Mathematics

