

ABSTRAK

Prastiwi, V. O. R. (2016). *Pengembangan Alat Peraga Pembelajaran Matematika Untuk Siswa Kelas III SD Materi Perkalian Berbasis Metode Montessori*. Skripsi S1. Yogyakarta: Program Studi Pendidikan Guru Sekolah Dasar, Universitas Sanata Dharma.

Penggunaan alat peraga dalam proses pembelajaran belum dimanfaatkan secara maksimal. Sebagian besar guru Sekolah Dasar masih menggunakan metode ceramah sehingga peran guru lebih aktif daripada siswa. Pemilihan metode pembelajaran harus tepat dan sesuai dengan karakteristik siswa. Salah satu metode yang sesuai adalah metode Montessori. Metode Montessori merupakan salah satu metode yang membuat siswa aktif, mandiri, dan reflektif dalam proses pembelajaran. Penelitian ini bertujuan untuk (1) mengembangkan alat peraga papan perkalian dan (2) mengembangkan fungsi alat peraga papan perkalian yang berkualitas sesuai dengan metode Montessori. Penelitian dilaksanakan di SD Kanisius Kenalan terhadap siswa kelas III tahun ajaran 2015/2016.

Jenis penelitian yang digunakan adalah penelitian pengembangan *Research and Development (R&D)*. Penelitian ini mengadopsi dari model Borg & Gall yang dimodifikasi menjadi tujuh langkah yaitu: (1) penelitian dan pengumpulan data, (2) perencanaan, (3) pengembangan format produk awal, (4) uji coba awal, (5) revisi produk, (6) uji coba lapangan, (7) revisi produk.

Hasil penelitian menunjukkan bahwa alat peraga papan perkalian Montessori memiliki lima ciri yaitu: (1) menarik, (2) bergradasi, (3) dapat digunakan siswa secara mandiri, (4) memiliki pengendali kesalahan, dan (5) kontekstual. Kualitas alat peraga ditunjukkan dari hasil validasi oleh ahli alat peraga yang memperoleh skor 3,74 dalam kategori “sangat baik”. Hasil dari uji coba terbatas skor *pre-test* memperoleh rata-rata 49, sedangkan *post-test* memperoleh rata-rata 91,3. Hal ini menunjukkan adanya peningkatan hasil belajar siswa setelah menggunakan alat peraga. Sehingga dapat dikatakan bahwa alat peraga papan perkalian Matematika Montessori layak digunakan untuk proses pembelajaran di kelas dan dapat dikembangkan dalam uji coba yang lebih luas.

Kata kunci: metode pengembangan, jenis penelitian, hasil penelitian

ABSTRACT

Prastiwi, V. O. R (2016) *Development of Elementary School Mathematic Learning Aid for the Students of Third Grade in Multiplication Based on Montessori Method*. A thesis S1. Yogyakarta: Elementary Teacher Education Study Program, Sanata Dharma University.

The used of instruction tool was understood as not in best or maximum use. Most of learning process employed by teachers utilise speeches. This choice teachers in much active position than the students. The choice of method of learned implies an adequate understanding towards the students. Montessori was one among many methods available. Montessori Method frames students as active, independent, and reflective participants in learning process. The research has the objectives of (1) developed the use of multiplication board, and (2) developed a quality of use of multiplication board as this was aimed by Montessori Method. The research was undertaken in Kanisius Kenalan Elementary School towards the students of third grade, the academic year of 2015-2016.

Type of research to develop a process of research of development in the model of Borg and Gall as it was designed into 7 steps: (1) the inquiry and collation of data, (2) planning, (3) development of initial format of the product, (4) test of product, (5) revision of product, (6) field testing, (7) revision of product.

The results of research were able to expose a finded that the multiplication board have positive characteristics: (1) express the interest of students, (2) gradual, (3) can be independently used by student, (4) has an ability to check mistakes, and (5) contextual. The quality of multiplication board was fairly scored 3,74 by the expert of the tool, the category "very good". The pre-test of students achieved average of 49, and post-test achieved average 91,3. Both tests expose an improvement of learning capacity of students by using the instructional tool. It was fair to conclude that the employment of Montessori multiplication board in learned process was worthy of use, and can be developed into wider process.

Keywords: method of development, type of research, result of research