ABSTRAK

Kundre, Olivia Theresia (2020). Eksplorasi Etnomatematika Kain Tenun Tanimbar dan Penerapannya Pada Pembelajaran Matematika. Tesis. Program Studi Magister Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta.

Penelitian ini bertujuan untuk 1) menemukan aspek-aspek matematika yang ditemukan dalam kain tenun Tanimbar dan; 2) mengetahui aspek-aspek matematika yang ditemukan dalam kain tenun Tanimbar dapat digunakan sebagai bahan pembelajaran. Penelitian ini dilaksanakan di Kabupaten Kepulauan Tanimbar pada bulan November 2018 sampai Maret 2019. Jenis penelitian ini merupakan penelitian kualitatif deskriptif. Subjek dalam penelitian ini adalah 2 orang Tokoh Masyarakat, 1 orang penenun dan 1 orang guru matematika SMP. Obyek penelitian ini adalah tradisi tenun masyarakat Tanimbar, dan aspek-aspek matematis yang terdapat pada tradisi tersebut. Teknik analisis data mengacu pada Miles dan Huberman. Data diperoleh dari hasil wawancara dengan narasumber Tokoh masyarakat dan penenun. Data wawancara berupa hasil analisis pembuatan kain tenun Tanimbar berupa alat dan bahan yang digunakan serta motif yang terdapat pada kain tenun Tanimbar. Hasil analisis tersebut kemudian dikaji aspek matematisnya berdasarkan 6 aktivitas dasar matematis menurut Alan J Bishop (1988) dan Materi Pembelajaran SMP sesuai kurikulum 2013 revisi terbaru. Aktivitas matematis pada pembuatan kain Tenun Tanimbar pada masyarakat Kabupaten Kepualauan Tanimbar antara lai: *(1). Designing: Design, Similarity, Symetry, Tesselation, (2). Measuring: Estimation, (3). Explaining: Symbolic Explanation, Story Explanation.* Materi matematika SMP pada tradisi tenun Tanimbar tersebut antara lain: (1). Segi Tiga, (2). Segi Empat, (3). Lingkaran, (4). Bangun Ruang Sisi Lengkung, (5). Garis, (6). Perbandingan, (7). Kekongruenan, (8). Kesebangunan.

Kata Kunci: Etnomatematika, kain tenun Tanimbar, aspek matematis, materi matematika SMP.

ABSTRACT

Kundre, Olivia Theresia (2020). *Ethnomatematics Exploration Of Tanimbar Woven Fabric And Its Application In Mathematics Learning*. Thesis. Master of Mathematics Education Study Program, Department of Mathematics and Natural Sciences Education, Teacher Training and Education Faculty, Sanata Dharma University, Yogyakarta.

This study aims to 1) find the mathematical aspects found in the Tanimbar woven cloth and; 2) knowing the mathematical aspects found in Tanimbar woven fabrics can be used as learning materials. This research was conducted in Tanimbar Islands Regency from November 2019 to March 2019. This type of research is descriptive qualitative research. The subjects in this study were 2 community leaders, 1 weaver and 1 junior high school mathematics teacher. The object of this research is the weaving tradition of the Tanimbar community, and the mathematical aspects of this tradition. The data analysis technique refers to Miles and Huberman. Data obtained from interviews with resource persons, community leaders and weavers. The interview data are the results of the analysis of the Tanimbar woven fabric in the form of the tools and materials used and the motifs found on the Tanimbar woven fabric. The results of the analysis were then examined for the mathematical aspects based on 6 basic mathematical activities according to Alan J Bishop (1988) and Junior High School Learning Materials according to the latest revised 2013 curriculum. Mathematical activities in the manufacture of Tanimbar woven fabrics in the people of Tanimbar Island Regency include: (1). Designing: Design, Similarity, Symetry, Tesselation, (2). Measuring: Estimation, (3). Explaining: Symbolic Explanation, Story Explanation. Junior high school mathematics materials in the Tanimbar weaving tradition include: (1). Triangle, (2). Quadrilateral, (3). Circle, (4). Build Curved Side Space, (5). Lines, (6). Comparison, (7). Congruent, (8). Similarity.

Keywords: *Ethnomatematics, Tanimbar woven fabric, mathematical aspects, junior high school mathematics material.*