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KEMAMPUAN REPRESENTASI MATEMATIS PESERTA DIDIK MELALUI MODEL PEMBELAJARAN THINK TALK WRITE (TTW) PADA MATERI BANGUN DATAR SEGI EMPAT DI KELAS VII-E MTs AL – IBROHIMI MANYAR GRESIK

ABSTRAK

Kemampuan representasi matematis merupakan hal yang selalu muncul ketika seseorang mempelajari matematika pada semua tingkatan/level pendidikan, karena kemampuan representasi dapat membantu peserta didik menjelaskan konsep atau ide, dan memudahkan peserta didik untuk mendapatkan strategi pemecahan dalam menjawab soal – soal matematika, namun banyak peserta didik yang kurang memahami serta merepresentasi masalah yang berkaitan bangun datar segiempat, salah satu faktor penyebab rendahnya kemampuan representasi matematis peserta didik yaitu terletak pada penggunaan model pembelajaran yang belum tepat. Oleh karena itu, penelitian ini bertujuan untuk mendeskripsikan kemampuan representasi matematis peserta didik melalui model pembelajaran *think talk write* (TTW) pada materi bangun datar segi empat di kelas VII E MTs Al – Ibrohimi Manyar Gresik.

Penelitian ini merupakan penelitian deskriptif kuantitatif. Penelitian ini dilaksanakan di kelas VII-E MTs Al-Ibrohimi Manyar sebanyak 41 peserta didik tahun akademik 2016/2017. Metode yang digunakan adalah metode tes dan observasi. Metode tes digunakan untuk mendeskripsikan kemampuan representasi matematis peserta didik melalui model pembelajaran *think talk write* (TTW). Sedangkan, observasi digunakan untuk mengetahui aktifitas peserta didik dan kemampuan guru mengelola pembelajaran menggunakan model *Think Talk Write* (TTW) pada materi bangun datar segiempat.

Dari hasil analisis data, kemampuan representasi matematis peserta didik kelas VII E di MTs Al-Ibrohimi Manyar setelah melakukan pembelajaran dengan model *Think Talk Write* (TTW) tergolong baik dengan rata – rata prosentase nilai kemampuan representasi matematis sebesar 64,27%, berdasarkan observasi yang dilakukan, prosentase rata-rata aktifitas peserta didik selama proses pembelajaran dengan menggunakan model *Think Talk Write* (TTW) didapatkan pada seluruh pertemuan yang berada pada kategori aktif yaitu 54,1%, kategori cukup aktif yaitu 28,6%, dan kategori tidak aktif yaitu 17,3%. Sedangkan kemampuan guru dalam mengelola pembelajaran dengan model *Think Talk Write* (TTW) pada materi bangun datar segi empat tergolong baik dengan rata – rata 80,5.

Kata kunci: kemampuan representasi matematis, think talk write, segi empat

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STUDENTS' MATHEMATICAL REPRESENTATION ABILITY THROUGH THINK TALK WRITE (TTW) LEARNING MODEL ON THE TETRAGONE MATERIAL IN VII-E CLASS OF MTs AL-IBROHIMI MANYAR GRESIK

ABSTRACT

The ability of mathematical representation is always the case when the one learns mathematic at all levels / levels of education, because the ability of representation can help the students to explain the concepts or the ideas, and facilitate them to get solving strategies in answering mathematical problems, but many students who do not understand and represent problems related to a tetragone material, one of the factors which are causing the low ability of mathematical representation of the students lies in the use of learning models that have not been right. Therefore, this study aims to describe the ability of mathematical representation of the students through a Think Talk Write (TTW) learning model on the tetragone material in VII E class of MTs Al - Ibrohimi Manyar Gresik.

This study is a quantitative descriptive research. This research was conducted in VII E class of MTs Al-Ibrohimi Manyar as many as 41 students in the academic year 2016/2017. The method used was the test method and observation. The test method was used to describe the ability of the mathematical representation of the students through the Think Talk Write (TTW) learning model. Meanwhile, an observation was used to determine the students' activities and the teacher's ability to manage learning using the Think Talk Write (TTW) model on a tetragone material.

The result of the data analysis, the ability of mathematical representation of the students of VII E class in MTs Al-Ibrohimi Manyar after implementing the learning with Think Talk Write (TTW) model was on good category with the average percentage score of mathematical representation ability which was 64.27%, based on the observation which was done, the average percentage of the students' activities during the learning process by using Think Talk Write (TTW) learning model was obtained at all meetings in the active category of 54.1%, 28.6% was on quite active, and the inactive category was 17.3% . Meanwhile, the ability of teacher in managing learning with Think Talk Write (TTW) model on the tetragone material was good with the average of 80.5.

Kata kunci: mathematical representation ability, think talk write, tetragone