

ABSTRAK

P. Johan Saputra Manurung. 4153311025. 2021. Analisis Kemampuan Komunikasi Matematis Siswa Melalui Model Pembelajaran Kooperatif Tipe Think Talk Write. Program Studi Pendidikan Matematika Fakultas Matematika Dan Ilmu Pengetahuan Alam, Universitas Negeri Medan.

Penelitian ini bertujuan untuk mendeskripsikan mengenai bagaimana penerapan model pembelajaran kooperatif tipe *think talk write* (TTW) dapat meningkatkan kemampuan komunikasi matematis siswa berdasarkan beberapa jurnal dan skripsi yang direview, lalu bagaimana hubungan model pembelajaran kooperatif tipe *think talk write* (TTW) terhadap kemampuan komunikasi matematis siswa berdasarkan beberapa jurnal dan skripsi yang direview, serta apa saja kendala yang dihadapi oleh siswa dalam menerapkan model pembelajaran kooperatif tipe *think talk write* (TTW) berdasarkan beberapa jurnal dan skripsi yang direview. Adapun yang menjadi sumber acuan/rujukan/bahan referensi penelitian ini yaitu lima belas jurnal yang dimulai dari tahun 2016-2020 dan skripsi tahun 2019. Lima belas jurnal dan sebuah skripsi tersebut merupakan karya ilmiah yang relevan dengan penelitian yang dilakukan oleh peneliti. Penelitian ini menggunakan metode penelitian studi literatur melalui jurnal dan skripsi. Adapun teknik pengumpulan data pada penelitian ini dilakukan dengan mengumpulkan data-data yang relevan melalui jurnal dan skripsi, lalu menganalisis data-data dan informasi tersebut dan menyimpulkan hasil akhir dari permasalahan yang dikaji. Berdasarkan penelitian yang sudah dilakukan, maka peneliti dapat menarik tiga kesimpulan, yaitu Penerapan model pembelajaran kooperatif tipe *think talk write* memberikan pengaruh terhadap peningkatan kemampuan matematis siswa. Hal ini karena dalam model pembelajaran *think talk write* diterapkan tiga tahap yaitu think (berpikir), talk (berdiskusi), dan write (menulis) yang membantu siswa dalam meningkatkan kemampuan komunikasi matematisnya dalam proses pembelajaran di dalam kelas. Terdapat hubungan antara model pembelajaran *think talk write* dengan aspek-aspek dalam komunikasi matematis. Kemampuan komunikasi matematis untuk mampu menjelaskan pendapat/ide siswa secara lisan maupun tulisan. Dengan menerapkan model pembelajaran *think talk write*, siswa dilatih untuk meningkatkan kemampuan komunikasi matematisnya. Adapun beberapa kendala yang dihadapi siswa dalam meningkatkan kemampuan komunikasi matematisnya melalui penerapan model pembelajaran *think talk write* yaitu terdapat beberapa siswa yang tidak percaya diri untuk menyampaikan ide/pendapatnya sendiri di dalam kelompoknya. Oleh sebab itu, siswa harus dibantu oleh peran guru sebagai *scaffolding* dan membantu siswa untuk mulai berani mengemukakan pendapatnya masing-masing.

Kata kunci : analisis, kemampuan, komunikasi matematis siswa, model pembelajaran kooperatif tipe *think talk write*.

ABSTRACT

P. Johan Saputra Manurung. 4153311025. 2021. Analysis of Students' Mathematical Communication Ability Through Cooperative Learning Model Think Talk Write Type. Program Studi Pendidikan Matematika Fakultas Matematika Dan Ilmu Pengetahuan Alam, Universitas Negeri Medan.

This study aims to describe how the application of think talk write (TTW) cooperative learning model can improve students' mathematical communication skills based on several reviewed journals and theses, then how is the relationship of think talk write (TTW) cooperative learning model to students' mathematical communication skills. based on several reviewed journals and thesis, as well as what are the obstacles faced by students in applying the think talk write (TTW) type cooperative learning model based on several reviewed journals and theses. The sources of reference/reference/reference material for this research are fifteen journals starting from 2016-2020 and a thesis in 2019. The fifteen journals and a thesis are scientific works that are relevant to the research conducted by the researcher. This study uses a research method of literature study through journals and theses. The data collection techniques in this study were carried out by collecting relevant data through journals and theses, then analyzing the data and information and concluding the final results of the problems studied. Based on the research that has been done, the researchers can draw three conclusions, namely the application of the think talk write type of cooperative learning model has an effect on increasing students' mathematical abilities. This is because the think talk write learning model is implemented in three stages, namely think (think), talk (discuss), and write (write) which helps students improve their mathematical communication skills in the learning process in the classroom. There is a relationship between the think talk write learning model and aspects of mathematical communication. Mathematical communication skills to be able to explain students' opinions/ideas orally and in writing. By applying the think talk write learning model, students are trained to improve their mathematical communication skills. There are several obstacles faced by students in improving their mathematical communication skills through the application of the think talk write learning model, namely that there are some students who are not confident in conveying their own ideas/opinions in their groups. Therefore, students must be assisted by the teacher's role as scaffolding and help students start to dare to express their respective opinions.

Keywords : *analysis, ability, students' mathematical communication, cooperative learning model of think talk write type.*