ABSTRAK

SITI ASFIRANNA SARI DALIMUNTHE. Pengembangan Model Pembelajaran Interaktif Berbasis *Think Pair Share* Untuk Meningkatkan Kemampuan Komunikasi Matematis Dan *Self-Efficacy* Siswa. Tesis. Medan: Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan. 2021.

Penelitian ini bertujuan untuk: 1) mengetahui pengembangan model pembelajaran interaktif berbasis *think pair share* pada materi bangun datar (persegi dan persegi panjang) yang valid, praktis, dan efektif sehingga dapat meningkatkan kemampuan komunikasi matematis dan *self-efficacy* siswa; 2) mendeskripsikan peningkatan kemampuan komunikasi matematis menggunakan model pembelajaran interaktif berbasis *think pair share*; 3) mendeskripsikan menggunakan model pembelajaran interaktif berbasis *think pair share*. Penelitian ini merupakan penelitian pengembangan. Model pengembangan yang digunakan dalam penelitian ini adalah model ADDIE. Hasil penelitian menunjukkan bahwa: 1) pengembangan model pembelajaran interaktif berbasis *think pair share* yang dikembangkan memenuhi kriteria kevalidan, kepraktisan, dan keefektifan model pembelajaran interaktif; 2) peningkatan kemampuan komunikasi matematis menggunakan model pembelajaran interaktif berbasis *think pair share* meningkat ditinjau dari *N-Gain* uji coba I sebesar 0,30 dengan kriteria rendah dan pada uji coba II dengan kriteria sedang; 3) Model pembelajaran interaktif berbasis *think pair share* yang dikembangkan ini dapat meningkatkan kemampuan *self-efficacy* siswa, terlihat pada uji coba I rata-rata *self-efficacy* siswa sebesar 80,07 dengan simpangan baku 10,16, pada uji coba II rata-rata *self-efficacy* sebesar 84,60 dengan simpangan baku 11,45.

Kata Kunci: Model Pembelajaran Interaktif, *Think Pair Share,* Komunikasi Matematis, *Self-Efficacy*

ABSTRACT

SITI ASFIRANNA SARI DALIMUNTHE. Development of Think Pair Share Based Interactive Learning Model To improve Students Mathematical Communication Skills and Self-Efficacy. Thesis. Medan: Mathematics Education Program Postgraduate School State University of Medan. 2021.

This study aims to: 1) find out the development of an interactive learning model based on think pair share on material (square and rectangle) that is valid, practical, and effective so that it can improve students mathematical communication skills and self-efficacy; 2) describe the improvement of mathematical communication skills using an interactive learning model based on think pair share; 3) describe using an interactive learning model based on think pair share. This research is a development research. The development model used in this study is the ADDIE model. The results showed that: 1) the development of an interactive learning model based on think pair share that was developed met the criteria for the validity, practicality, and effectiveness of the interactive learning model; 2) the increase in mathematical communication skills using an interactive learning model based on think pair share increased in terms of the N-Gain in the first trial of 0.30 with low criteria and in the second trial with medium criteria; 3) The developed think pair share-based interactive learning model can improve students' self-efficacy, it can be seen in the first trial the average self-efficacy of students is 80.07 with a standard deviation of 10.16, in the second trial the average self-efficacy is 84.60 with a standard deviation of 11.45.

Keywords: Interactive Learning Model, Think Pair Share, Mathematical Communication, Self-Efficacy