ABSTRAK

DWI KARTIKA SARI. Peningkatan Kemampuan Berpikir Kreatif dan *Self-Efficacy* Matematis Siswa SMP Swasta Prima Tembung Melalui *Discovery Learning*. Tesis. Medan: Program Studi Pendidikan Matematika Program Pascasarjana Universitas Negeri Medan (UNIMED). 2017.

Kata Kunci: Kemampuan Berpikir Kreatif Matematis, *Self-Efficacy* Matematis, *Discovery Learning*

Tujuan dari penelitian ini adalah untuk menganalisis apakah: (1) Kemampuan berpikir kreatif siswa yang memperoleh pembelajaran model *discovery learning* lebih tinggi daripada siswa yang memperoleh pembelajaran biasa, (2) *Self-efficacy* matematis siswa yang memperoleh pembelajaran model *discovery learning* lebih tinggi daripada siswa yang memperoleh pembelajaran biasa, (3) Bagaimana aktivitas siswa selama proses pembelajaran *discovery learning*. Penelitian ini merupakan penelitian eksperimen semu. Populasi penelitian ini adalah seluruh siswa SMP Swasta Prima Tembung. Kemudian secara acak dipilih dua kelas. Kelas eksperimen diberi perlakuan pembelajaran model *discovery learning* dan kelas kontrol dengan pembelajaran biasa. Instrumen yang digunakan terdiri dari: tes kemampuan berpikir kreatif dan angket *self-efficacy* matematis siswa. Instrumen tersebut dinyatakan telah memenuhi syarat validitas isi, serta koefisien reliabilitas sebesar 0,867 dan 0,878 berturut-turut untuk *pretest* dan *postest* kemampuan berpikir kreatif. Sedangkan koefisien reliabilitas untuk *self-efficacy* matematis siswa sebesar 0,933. Analisis data dilakukan melalui analisis kovarians (ANAKOVA). Berdasarkan hasil penelitian diperoleh: (1) Peningkatan kemampuan berpikir kreatif matematis siswa yang memperoleh pembelajaran *discovery learning* lebih tinggi daripada kemampuan berpikir kreatif matematis siswa yang memperoleh pembelajaran biasa, (2) Peningkatan *self-efficacy* matematis siswa yang memperoleh pembelajaran *discovery learning* lebih tinggi daripada kemampuan *self-efficacy* matematis siswa yang memperoleh pembelajaran biasa, (3) Aktivitas siswa selama proses pembelajaran *discovery learning* berkategori baik.

ABSTRACT

DWI KARTIKA SARI. The Increasing of Creative Thinking Ability and Mathematical Self-Efficacy of Junior High School Students at SMP Swasta Prima Tembung through Discovery Learning. Thesis. Medan. Mathematics Education Program Graduate Program, State University of Medan (UNIMED). 2017

Keywords: Mathematical Creative Thinking Ability, Mathematical Self-Efficacy and Discovery Learning

The aim of this study was to analyze whether: (1) Creative thinking ability of the students who received discovery learning was higher than the students who received conventional learning, (2) Mathematical self-efficacy of student who received discovery learning was higher than students who received conventional learning, (3) How students activity during the learning process by using the discovery learning. The research was quasi experiment. The population in this research were all of students in Junior High School at SMP Swasta Prima Tembung. Then randomly were selected two classes. Experiment class given learning through discovery learning and control class given conventional learning. The instrument used consisted of: mathematical creative thinking ability test and mathematical self-efficacy questionnaire. The instrument has been declared eligible content validity, and reliability coefficient of 0.867 and 0.878 respectively for the pretest and post-test creative thinking ability. While the reliability coefficient for the mathematical self-efficacy of students was 0.933. Data was analyzed using analysis of covariance (ANACOVA). Based on the results of the research found that: (1) The increase of students mathematical creative thinking ability who received through discovery learning was higher than students who received conventional learning, (2) The increase of students mathematical self-efficacy who received through discovery learning was higher than students who received conventional learning, (3) Descriptively also studied the answers of the problem's formulation, it was: students activity during learning using discovery learning was categorized as good.