

## ABSTRAK

**ABDUL HALIM. 8156171001. Perbedaan Kemampuan Pemecahan Masalah Matematika dan *Self-Efficacy* Siswa yang Diajar Dengan Model Pembelajaran Kooperatif Tipe *Think Pair Square* dan *Group Investigation* di SMP Negeri 2 Gebang Kabupaten Langkat.**Tesis. Medan: Program Pascasarjana Universitas Negeri Medan 2018.

Tujuan penelitian ini adalah untuk mengetahui (1) Perbedaan kemampuan pemecahan masalah matematis siswa yang diajar melalui model pembelajaran kooperatif tipe TPSq dengan siswa yang diajar melalui model pembelajaran kooperatif tipe GI, (2) Perbedaan *self-efficacy* siswa yang diajar melalui model pembelajaran kooperatif tipe TPSq dengan siswa yang diajar melalui model pembelajaran kooperatif tipe GI, (3) Interaksi antara model pembelajaran dan motivasi belajar siswa terhadap kemampuan pemecahan masalah, (4) Interaksi antara pembelajaran dan motivasi belajar siswa terhadap *self-efficacy* siswa. Jenis penelitian ini adalah kuasi eksperimen. Populasi yang diambil dalam penelitian ini adalah siswa kelas VIII SMP Negeri 2 Gebang Kabupaten Langkat dan sampel dalam penelitian ini dipilih secara acak, dua kelas yang terpilih adalah kelas VIII-1 sebagai kelas eksperimen I dan kelas VIII-2 sebagai kelas eksperimen II, masing-masing berjumlah 30 siswa. Instrument yang digunakan terdiri dari: (1) Angket motivasi siswa, (2) Tes kemampuan pemecahan masalah dan (3) Angket *self-efficacy*. Analisis data dilakukan dengan ANAVA dua jalur. Hasil penelitian ini menunjukkan bahwa (1) Terdapat perbedaan kemampuan pemecahan masalah matematis antara siswa yang diajar melalui model pembelajaran kooperatif tipe TPSq dengan siswa yang diajar melalui model pembelajaran kooperatif tipe GI, dimana penerapan model pembelajaran kooperatif tipe TPSq lebih baik dari pada model pembelajaran kooperatif tipe GI untuk kemampuan pemecahan masalah matematis (2) Terdapat perbedaan *self-efficacy* antara siswa yang diajar melalui model pembelajaran kooperatif tipe TPSq dengan siswa yang diajar melalui model pembelajaran kooperatif tipe GI, dimana penerapan model pembelajaran kooperatif tipe TPSq lebih baik dari pada model pembelajaran kooperatif tipe GI untuk *self-efficacy* siswa (3) Terdapat interaksi antara model pembelajaran dan motivasi belajar siswa terhadap kemampuan pemecahan masalah matematis, dan (4) Terdapat interaksi antara model pembelajaran dan motivasi belajar siswa terhadap *self-efficacy* siswa.

**Kata Kunci:** Perbedaan, Kemampuan Pemecahan Masalah matematis, *Self-Efficacy* siswa, Model Pembelajaran Kooperatif Tipe TPSq, dan Model Pembelajaran Kooperatif Tipe GI.

## ABSTRACT

**ABDUL HALIM. 8156171001. Differences in Mathematics Problem Solving Ability and Self-Efficacy Students Taught With Cooperative Learning Model Type *Think Pair Square* and *Group Investigation* in SMP Negeri 2 Gebang Langkat.**Thesis. Medan: Post Graduate School State University of Medan 2018.

This research aim to know (1) the difference of mathematical problem solving ability of students who are taught by cooperative learning model type TPSq with students who are taught through cooperative learning model type GI, (2) the difference of self-efficacy students who are taught by cooperative learning model type TPSq with students who are taught cooperative learning model type GI, (3) the interaction between the model of learning and student motivation towards problem-solving ability, (4) the interaction between learning and student motivation toward self-efficacy students. This research is quasi-experimental research. The population in this research were eigh grade junior high school of SMP Negeri 2 Gebang Langkat and the sample is chosen random sampling selected two classes is a class eigh-one as the experimental class I and class eigh-two as the experimental class II, respectively amounted to 30 students. Instrument used consisted of: (1) questionnaire of student motivation, (2) test the problem solving and (3) questionnaire of self-efficacy. Data analysis is used by analysis of varians (ANOVA) two lines. The results showed that (1) there are difference of mathematical problem solving ability between the students who taught by cooperative learning model type TPSq with students who taught by cooperative learning model type GI, where the implementation of cooperative learning model type TPSq is better than cooperative learning model type GI for mathematical problem solving ability (2) There are difference of self-efficacy between the students who taught by cooperative learning model type TPSq with students who taught by cooperative learning model type GI, where the implementation of cooperative learning model type TPSq better than learning model type GI for self-efficacy students (3) There is interaction between learning models and learning motivation of students to the mathematical problem solving ability, and (4) There is interaction between learning models and student motivation toward self-efficacy students.

**Keywords:** *Mathematical Problem Solving Ability, Self-Efficacy Students, Cooperative Learning Model type Think Pair Square and Cooperative Learning Model type Group Investigation.*