

ABSTRAK

Soniatul Hasanah. Peningkatan Kemampuan Metakognisi dan Komunikasi Matematis Siswa Melalui Model Pembelajaran Kooperatif Tipe *Think-Pair-Share* Di SMPN 5 Medan. Tesis. Medan: Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan, 2017.

Penelitian ini bertujuan untuk menyelidiki: (1) Apakah terdapat peningkatan kemampuan metakognisi siswa yang diajar melalui model pembelajaran kooperatif tipe *think-pair-share*, (2) Apakah terdapat peningkatan kemampuan komunikasi matematis siswa yang diajar melalui model pembelajaran kooperatif tipe *think-pair-share*, (3) Adakah perbedaan kemampuan metakognisi dan kemampuan komunikasi matematis antara yang diajarkan dengan model pembelajaran kooperatif tipe *think-pair-share* dan konvensional, (4) Bagaimana proses jawaban siswa terkait kemampuan metakognisi dan komunikasi matematis siswa dengan pembelajaran kooperatif tipe *think-pair-share*. Penelitian ini dilakukan di SMPN 5 Medan sebanyak 60 siswa. Penelitian ini merupakan penelitian eksperimen dengan desain penelitian *pre-test* dan *post-test control group design*. populasi dalam penelitian ini adalah seluruh siswa kelas VII dengan mengambil sampel dua kelas. (kelas eksperimen dan kelas kontrol) melalui teknik *purposive sampling*. Instrumen yang digunakan terdiri dari tes kemampuan metakognisi dan tes kemampuan komunikasi matematis. Instrumen tersebut dinyatakan telah memenuhi syarat validitas dan koefisien reliabilitas. Data dianalisis dengan Uji-t. Sebelum digunakan Uji-t terlebih dahulu dilakukan uji normalitas dan homogenitas dengan taraf signifikan 5%. Berdasarkan hasil analisis tersebut diperoleh hasil penelitian yaitu: (1) Terdapat peningkatan kemampuan metakognisi siswa yang diajar melalui model pembelajaran kooperatif tipe *Think-Pair-Share* (2) Terdapat peningkatan kemampuan komunikasi matematis siswa yang diajar melalui model pembelajaran kooperatif tipe *Think-Pair-Share* (3) Terdapat perbedaan kemampuan metakognisi dan komunikasi matematis yang diajarkan dengan model pembelajaran kooperatif tipe *think-pair-share* dan konvensional (4) Proses jawaban siswa dalam menyelesaikan jawaban melalui pembelajaran kooperatif tipe *think-pair-share* menunjukkan tercapainya indikator yang lebih baik dibandingkan pada siswa yang mendapat pembelajaran konvensional.

Kata Kunci: Pembelajaran kooperatif tipe *Think-Pair-Share*, Kemampuan Metakognisi dan Kemampuan Komunikasi Matematis.

Soniatul Hasanah. The Improvement Of Student's Metacognition Abilities and Mathematical Communication Abilities Uses Co-Operative Model Type Think-Pair-Share in SMPN 5 Medan. Thesis. Medan: Mathematics Education Postgraduated, State University of Medan, 2017.

ABSTRACT

The aims of this research were to determine: (1) Is the improvement of student's metacognition abilities uses Co-Operative model type Think-Pair-Share (2) Is the improvement of student's mathematical communication abilities uses Co-Operative model type Think-Pair-Share (3) Is any different of metacognition and mathematical communication abilities by Co-Operative model type Think-Pair-Share and conventional (4) How the process of the students' answers to mathematical reasoning abilities of student's with Co-Operative model type Think-Pair-Share .The research was conducted in SMP Negeri 5 Medan is 60 students. This study was an experimental study with pre-test research design-posttest control group design. The population in this study were all students SMP Negeri 5 Medan, with to take samples of two classes from class VII (experimental group and control group) through purposive sampling technique. The instrument used consisted of: testing the ability of the metacognition and mathematical communication questionnaire. The instrument has been declared eligible content validity and reliability coefficients. Data were analyzed by Uji-t. Before use Uji-t first tested in research normality and homogeneity in this study with a significant level of 5%. Based on the results of the analysis obtained results of the study are: (1) There is improvement of student's metacognition abilities by Co-Operative model type Think-Pair-Share (2) There is improvement of student's mathematical communication abilities by Co-Operative model type Think-Pair-Share (3) Any different of metacognition and mathematical communication abilities by Co-Operative model type Think-Pair-Share and conventional (4) The process of the students' answers in solving problems by Co-Operative model type Think-Pair-Share show achieved for indicator of metacognition abilities and mathematical communication abilities better than Conventional Learning

Keywords: Co-operative Learning type Think-Pair-Share , Metacognition Ability and mathematical communication ability .