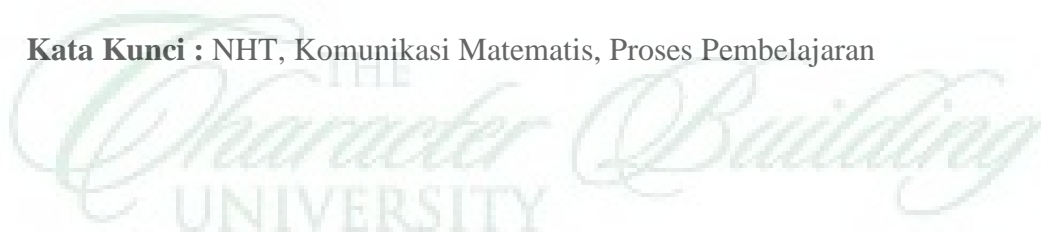


## ABSTRAK

**Silvia Sales Saragih, NIM 4183111043 (2018). Penerapan Model Pembelajaran Kooperatif Tipe *Numbered Heads Together* (NHT) untuk Meningkatkan Kemampuan Komunikasi Matematis Siswa Kelas XI SMA Negeri 1 Raya**

Penelitian ini bertujuan untuk mendeskripsikan peningkatan kemampuan komunikasi matematis siswa Kelas XI SMA Negeri 1 Raya setelah menerapkan model pembelajaran kooperatif tipe *Numbered Heads Together* (NHT). Jenis penelitian ini adalah penelitian tindakan kelas. Subjek penelitian ini adalah siswa kelas XI MIA-2 SMA Negeri 1 Raya yang berjumlah 34 orang. Objek penelitian ini adalah kemampuan komunikasi matematis siswa dengan menerapkan model pembelajaran kooperatif tipe *Numbered Heads Together* (NHT) pada materi irisan dua lingkaran. Berdasarkan hasil analisis data kemampuan komunikasi matematis siswa pada siklus I, diperoleh bahwa hanya 16 siswa (47.06 %) yang telah memenuhi kriteria yang ditentukan yaitu siswa memperoleh nilai  $\geq 65$ . Dari hasil tersebut, dinyatakan bahwa ketuntasan klasikal kelas belum mencapai kriteria minimal  $\geq 85\%$  (banyak siswa yang kemampuan komunikasinya minimal kriteria cukup adalah minimal 85%). Setelah tindakan di siklus II, pada hasil tes kemampuan komunikasi matematis II diperoleh ada 30 siswa (88.24%) siswa sudah mencapai standar komunikasi yang di targetkan, yaitu memperoleh nilai  $\geq 65$ . Terjadi peningkatan jumlah siswa yang mencapai ketuntasan belajar sebanyak 14 siswa atau 41.18 % dan berdasarkan hasil tersebut maka persentase ketuntasan klasikal ini sudah memenuhi standar yang sudah ditentukan. Nilai rata-rata pada tes kemampuan komunikasi siklus I yaitu 59.56 dan meningkat menjadi 76.75 pada siklus II sehingga diperoleh peningkatan rata-rata kemampuan komunikasi matematis siswa sebesar 17.19. Berdasarkan uraian-uraian diatas disimpulkan bahwa komunikasi matematis siswa meningkat dengan menerapkan model pembelajaran kooperatif tipe *Numbered Heads Together* (NHT) pada materi irisan dua lingkaran di kelas XI MIA 2 SMA Negeri 1 Raya.

**Kata Kunci :** NHT, Komunikasi Matematis, Proses Pembelajaran



## ABSTRACT

**Silvia Sales Saragih, NIM 4183111043 (2018). Application of Numbered Heads Together (NHT) Cooperative Learning Model to Improve Mathematical Communication Ability of Class XI Students of SMA Negeri 1 Raya**

This study aims to describe the improvement of mathematical communication skills of Class XI students of SMA Negeri 1 Raya after applying the Numbered Heads Together (NHT) cooperative learning model. This type of research is classroom action research. The subjects of this study were students of class XI MIA-2 SMA Negeri 1 Raya totaling 34 people. The object of this research is students' mathematical communication skills by applying the Numbered Heads Together (NHT) type of cooperative learning model to the material of the intersection of two circles. Based on the results of data analysis of students' mathematical communication skills in the first cycle, it was found that only 16 students (47.06%) had met the specified criteria, namely students scored 65. From these results, it was stated that the classical mastery of the class had not reached the minimum criteria of 85% (many students whose communication skills are minimal enough criteria are at least 85%). After the action in cycle II, on the results of the second mathematical communication ability test, it was found that 30 students (88.24%) had reached the targeted communication standard, which was getting a score of 65. There was an increase in the number of students who achieved learning completeness as many as 14 students or 41.18% and based on these results, the percentage of classical completeness has met the predetermined standards. The average value in the first cycle of communication skills test was 59.56 and increased to 76.75 in the second cycle so that an average increase in students' mathematical communication skills was 17.19. Based on the descriptions above, it is concluded that students' mathematical communication is improved by applying the Numbered Heads Together (NHT) type of cooperative learning model to the material of the two circle slices in class XI MIA 2 SMA Negeri 1 Raya.

**Keywords:** NHT, Mathematical Communication, Learning Process