

## ABSTRAK

Tujuan Penelitian ini adalah: (1) mengkaji perbandingan peningkatan kemampuan komunikasi matematis antara siswa yang belajar dengan model pembelajaran *everyone is a teacher here* (ETH) berbantuan geogebra dengan siswa yang belajar dengan model pembelajaran *discovery learning*, (2) mengkaji perbandingan pencapaian kemampuan komunikasi matematis antara siswa yang belajar dengan model pembelajaran *everyone is a teacher here* (ETH) berbantuan geogebra dengan siswa yang belajar dengan model pembelajaran *discovery learning*, (3) mengetahui respon siswa yang memperoleh pembelajaran dengan model pembelajaran *everyone is a teacher here* berbantuan geogebra, dan (4) mengetahui respon siswa yang memperoleh pembelajaran dengan model pembelajaran *discovery learning*. Populasi penelitian adalah seluruh siswa kelas VIII semester ganjil di salah satu SMP di kabupaten Majalengka. Sampel penelitian terdiri dari dua kelas dan keduanya merupakan kelas eksperimen. Pengambilan sampling penelitian menggunakan teknik *purposive sampling*. Metode pengumpulan data terdiri atas tes kemampuan komunikasi matematis, angket skala sikap, dan lembar observasi. Dari hasil analisis data dengan taraf signifikansi 5% diperoleh hasil: (1) terdapat perbedaan secara signifikan peningkatan kemampuan komunikasi matematis antara siswa yang belajar dengan model pembelajaran *everyone is a teacher here* (ETH) berbantuan geogebra dengan siswa yang belajar dengan model pembelajaran *discovery learning*, (2) tidak terdapat perbedaan secara signifikan pencapaian mengkaji perbandingan kemampuan komunikasi matematis antara siswa yang belajar dengan model pembelajaran *everyone is a teacher here* (ETH) berbantuan geogebra dengan siswa yang belajar dengan model pembelajaran *discovery learning*, (3) respon siswa terhadap pembelajaran matematika dengan model pembelajaran *everyone is a teacher here* berbantuan geogebra menunjukkan hasil yang positif, dan (4) respon siswa terhadap pembelajaran matematika dengan model pembelajaran *discovery learning* menunjukkan hasil yang positif. Respon yang lebih baik yaitu siswa yang memperoleh model ETH berbantuan geogebra dengan rataratanya sebesar 73,4%.

**Kata Kunci:** Komunikasi matematis, *everyone is a teacher here*, geogebra, *discovery learning*

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PERBANDINGAN PENINGKATAN KEMAMPUAN KOMUNIKASI MATEMATIS SISWA SMP MELALUI EVERYONE IS A TEACHER HERE (ETH) BERBANTUAN GEOGERBA DAN DISCOVERY LEARNING

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## ABSTRACT

The aims of this research are: (1) to study the comparison of the improvement of mathematical communication skills between students who study with the learning model of everyone is a teacher here (ETH) assisted by geogebra with students who study with discovery learning models, (2) study the comparison of the achievement of mathematical communication skills between students who learn with the learning model everyone is a teacher here (ETH) assisted by geogebra with students who learn with discovery learning models, (3) know the response of students who get learning with learning models everyone is a teacher here assisted by geogebra, and (4 ) knowing the response of students who get learning with discovery learning learning models. The study population was all eighth grade students in odd semester in one junior high school in Majalengka district. The research sample consisted of two classes and both were experimental classes. Sampling research uses purposive sampling technique. Data collection methods consist of mathematical communication ability tests, attitude scale questionnaires, and observation sheets. From the results of data analysis with a significance level of 5%, the following results were obtained: (1) there was a significant difference in the improvement of mathematical communication skills between students who learned with the learning model of everyone is a teacher here (ETH) assisted by geogebra with students learning with discovery learning learning models. (2) there is no significant difference in the achievement of studying the comparison of the achievement of mathematical communication skills between students who study with the learning model of everyone is a teacher here (ETH) assisted by geogebra with students studying with discovery learning models, (3) students' responses to mathematics learning with the learning model everyone is a teacher here assisted by geogebra shows positive results, and (4) student responses to mathematics learning with discovery learning learning models show positive results. Better response is students who get ETH model the geogebra-assisted with an average 73,4%.

**Keywords:** Mathematical communication, everyone is a teacher here, geogeb, discovery learning.

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