ABSTRAK

Maulidani Putri Rangkuti, NIM 4191111019 (2023). Pengaruh Model *Discovery Learning* Berbantuan Canva Terhadap Kemampuan Komunikasi Matematis Siswa SMP Negeri 2 Deli Tua.

Penelitian ini bertujuan untuk (1) Mengetahui adakah pengaruh model *Discovery Learning* terhadap kemampuan komunikasi matematis siswa dengan berbantuan Canva sebagai video pembelajaran. (2) Mendeskripsikan proses penyelesaian jawaban siswa terkait kemampuan komunikasi matematis setelah diterapkan model *Discovery Learning* berbantuan Canva . Penelitian ini termasuk ke dalam kategori eksperimen semu dengan desain penelitian *the one group pretest-postest*. Populasi dalam penelitian ini adalah semua siswa kelas IX SMPN 2 Deli Tua T.A 2023/2024 dengan sampel kelas IX-4 sebagai kelas eksperimen yang dipilih dengan metode *cluster random sampling*. Instrument tes yang digunakan dalam penelitian ini yaitu *pretest* dan *posttest* yang berbentuk uraian yang digunakan untuk mengetahui kemampuan komunikasi matematis siswa. Objek dalam penelitian ini adalah kemampuan komunikasi matematis siswa dengan menerapkan model *Discovery Learning* berbantuan Canva pada materi Lingkaran. Berdasarkan hasil analisis data menunjukkan: (1) analisis uji hipotesis regresi linear sederhana yang dilakukan dengan melakukan uji prasyarat terlebih dahulu maka didapatkan nilai $F_{hitung} > F_{tabel}$ yakni $48,9 > 4,17$ yang mengakibatkan H_1 diterima yang berarti model *Discovery Learning* berbantuan Canva memiliki pengaruh yang signifikan terhadap kemampuan komunikasi matematis siswa. Adapun besar pengaruh model *Discovery Learning* dengan berbantuan Canva terhadap kemampuan komunikasi matematis siswa di kelas IX SMPN 2 Deli Tua yaitu sebesar 64,5% yang dihitung melalui uji koefisien determinan. (2) proses penyelesaian jawaban yang dibuat siswa dalam memahami kemampuan komunikasi matematis lebih baik dengan menggunakan model *Discovery Learning*. Berdasarkan hasil penelitian dapat disimpulkan bahwa model *Discovery Learning* berbantuan Canva dapat berpengaruh terhadap kemampuan komunikasi matematis siswa.

Kata kunci: Model *Discovery Learning*, Kemampuan Komunikasi Matematis, Media Canva

ABSTRACT

Maulidani Putri Rangkuti, NIM 4191111019 (2023). The Influence of the *Discovery Learning* **Model Assisted by Canva on the Mathematical Communication Skills of Students at SMP Negeri 2 Deli Tua.**

This research aims to (1) Find out whether there is an influence of the Discovery Learning model on students' mathematical communication skills with the help of Canva as a learning video. (2) Describe the process of completing students' answers regarding mathematical communication skills after applying the Discovery Learning model assisted by Canva. This research is included in the quasi-experimental category with a one group pretest-posttest research design. The population in this study were all class IX students of SMPN 2 Deli Tua T.A 2023/2024 with a sample of class IX-4 as the experimental class selected using the cluster random sampling method. The test instruments used in this research are pretest and posttest in the form of descriptions used to determine students' mathematical communication abilities. The object of this research is students' mathematical communication skills by applying the Discovery Learning model assisted by Canva on Circle material. Based on the results of data analysis, it shows: (1) simple linear regression hypothesis test analysis which was carried out by carrying out prerequisite tests first, the value $F_{count}>F_{table}$ was obtained, namely $48.9>4.17$ which resulted in H_1 being accepted, which means that the Canva-assisted Discovery Learning model had an influence which is significant for students' mathematical communication abilities. The influence of the Discovery Learning model with the help of Canva on the mathematical communication skills of students in class IX of SMPN 2 Deli Tua is 64.5%, which is calculated through the determinant coefficient test. (2) the process of completing answers made by students to understand mathematical communication skills better using the Discovery Learning model. Based on the research results, it can be concluded that the Discovery Learning model assisted by Canva can influence students' mathematical communication skills.

Keywords: *Discovery Learning* Model, Mathematical Communication Skills, Canva Media