

ABSTRAK

Irma Amandani Sintia Rani, 2026. *Efektivitas Model Self Directed Learning Terhadap Kemampuan Numerasi Siswa Dalam Pembelajaran Matematika Materi Piktogram Dan Diagram Batang*. Skripsi. Progam Studi Pendidikan Guru Sekolah Dasar, Fakultas Keguruan dan Ilmu Pendidikan, Universitas PGRI Madiun. Pembimbing (I) Dr. Octarina Hidayatus Sholikhah, M.Pd., (II) Dr. Lingga Nico Pradana, M.Pd.

Penelitian ini bertujuan untuk mengukur dan mengetahui efektivitas penerapan model pembelajaran *Self Directed Learning* (SDL) terhadap kemampuan numerasi siswa kelas IV pada materi piktogram dan diagram batang. Penelitian kuantitatif ini menggunakan desain *Interrupted Time Series Experimental Design* dengan melibatkan satu kelompok sampel jenuh yang terdiri dari 14 siswa kelas IV di SDN Klagenserut 01 Kabupaten Madiun. Data penelitian dikumpulkan melalui instrumen tes objektif berupa *Pre-test* dan *Post-Test* yang telah divalidasi dan diuji reliabilitasnya, serta menggunakan metode dokumentasi pendukung. Analisis data dilakukan dengan uji prasyarat normalitas dan uji hipotesis melalui *Paired Sample Test*. Hasil penelitian menunjukkan bahwa terdapat peningkatan yang signifikan pada kemampuan numerasi siswa setelah diberikan perlakuan pembelajaran menggunakan model SDL. Nilai rata-rata hasil belajar siswa mengalami peningkatan dari 51,43 pada saat *Pre-test* menjadi 81,40 pada saat *Post-Test*. Hasil pengujian hipotesis memperoleh nilai *p-value* sebesar 0,000 yang lebih kecil dari taraf signifikansi 0,05. Hal tersebut mengindikasikan bahwa H_0 ditolak, sehingga dapat disimpulkan bahwa model pembelajaran SDL secara signifikan efektif dalam meningkatkan kemampuan numerasi dan pemahaman konsep matematika siswa sekolah dasar.

Kata Kunci: Kemampuan Numerasi, Self Directed Learning, Piktogram, Diagram Batang, Matematika.

ABSTRACT

Irma Amandani Sintia Rani, 2026. *The Effectiveness of the Self-Directed Learning Model on Students' Numeracy Skills in Mathematics Lessons on Pictograms and Bar Charts*. Undergraduate Thesis. Primary School Teacher Education Study Program, Faculty of Teacher Training and Education, Universitas PGRI Madiun. Pembimbing (I) Dr. Octarina Hidayatus Sholikhah, M.Pd., (II) Dr. Lingga Nico Pradana, M.Pd.

This study aims to measure and determine the effectiveness of the *Self Directed Learning* (SDL) model on the numeracy skills of fourth-grade students regarding pictograms and bar charts. This quantitative research utilized an *Interrupted Time Series Experimental Design* involving a single saturated sample group consisting of 14 fourth-grade students at SDN Klagenserut 01, Madiun Regency. Research data were collected through objective test instruments in the form of *Pre-tests* and *Post-Tests* that had been validated and tested for reliability, along with supporting documentation methods. Data analysis was conducted using prerequisite normality tests and hypothesis testing through the *Paired Sample Test*. The results showed that there was a significant increase in students' numeracy skills after being given learning treatments using the SDL model. The average student learning outcome score increased from 51.43 during the *Pre-test* to 81.40 during the *Post-Test*. The hypothesis testing results obtained a *p-value* of 0.000, which is smaller than the significance level of 0.05. This indicates that H_0 is rejected, concluding that the SDL learning model is significantly effective in improving the numeracy skills and mathematical concept understanding of elementary school students.

Keywords: Numeracy Skills, *Self Directed Learning*, Pictogram, Bar Chart, Mathematics.