

## ABSTRAK

Shella Anggun Pertiwi (2018) : **Peningkatan Kemampuan Berpikir Logis, Berpikir Reflektif dan *Self-efficacy* Matematis Siswa melalui Strategi REACT (*Relating, Experiencing, Applying, Cooperating, Transferring*)**

Penelitian ini bertujuan untuk menganalisis peningkatan kemampuan berpikir logis dan berpikir reflektif matematis siswa yang memperoleh strategi REACT dan siswa yang memperoleh pembelajaran biasa, menanalisis perbedaan *self-efficacy* antara siswa yang mendapatkan strategi REACT dan siswa yang mendapatkan pembelajaran biasa. Jenis penelitian ini adalah kuasi eksperimen. Subjek penelitian adalah siswa kelas VII salah satu SMP Negeri di Lembang yang terdiri dari dua kelas yakni 33 siswa diberi strategi REACT dan 35 siswa pembelajaran biasa. Hasil penelitian ini menunjukkan bahwa: (1) Peningkatan kemampuan berpikir logis matematis siswa yang mendapatkan pembelajaran dengan REACT lebih tinggi secara signifikan daripada siswa yang mendapatkan pembelajaran biasa bila ditinjau secara keseluruhan siswa. (2) Peningkatan kemampuan berpikir reflektif matematis siswa yang mendapatkan pembelajaran dengan REACT lebih tinggi secara signifikan daripada siswa yang mendapatkan pembelajaran biasa bila ditinjau secara keseluruhan siswa. (3) Peningkatan kemampuan berpikir logis matematis siswa yang mendapatkan pembelajaran dengan REACT lebih tinggi secara signifikan daripada siswa yang mendapatkan pembelajaran biasa bila ditinjau berdasarkan kategori KAM tinggi, KAM sedang, dan KAM rendah siswa. (4) Peningkatan kemampuan berpikir reflektif matematis siswa yang mendapatkan pembelajaran dengan REACT lebih tinggi secara signifikan daripada siswa yang mendapatkan pembelajaran biasa bila ditinjau berdasarkan kategori KAM tinggi, KAM sedang, dan KAM rendah siswa. (5) *Self-efficacy* matematis siswa yang mendapatkan pembelajaran dengan REACT lebih baik secara signifikan daripada siswa yang mendapatkan pembelajaran biasa bila ditinjau secara keseluruhan siswa.

**Kata Kunci :** Berpikir Logis Matematis, Berpikir Reflektif Matematis, *Self-efficacy*, Strategi REACT

Shella Anggun Pertiwi, 2018

PENINGKATAN KEMAMPUAN BERPIKIR LOGIS, BERPIKIR REFLEKTIF DAN SELF-EFFICACY MATEMATIS SISWA MELALUI STRATEGI REACT (RELATING, EXPERIENCING, APPLYING, COOPERATING, TRANSFERRING)

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## ABSTRACT

Shella Anggun Pertiwi (2018) : **Enhancement of Mathematical Logical Thinking, Mathematical Reflective Thinking, and Mathematical Self-efficacy Students through REACT (Relating, Experiencing, Applying, Cooperating, Transferring) Strategy**

This study aimed to analyze the improvement of mathematical logical thinking ability and mathematical reflective thinking students who received REACT strategy and students who received ordinary learning, analyzed the difference of *self-efficacy* between students who received REACT strategy and students who received ordinary learning. This research type is quasi experiment. The research's subjects are the seventh grade students of SMP Negeri in Lembang consisting of two classes which are 33 students were given REACT strategy and 35 students of ordinary learning. The results of this study show that: (1) The enhancement of students mathematical logical thinking ability who received REACT strategy learning is significantly higher than students who received ordinary learning. (2) The enhancement of students mathematical reflective thinking ability who received REACT strategy learning is significantly higher than students who received ordinary learning. (3) The enhancement mathematical logical thinking ability of students who received learning with REACT strategy is significantly higher than students who received ordinary learning when reviewed under the high KAM, medium KAM, and low KAM. (4) Enhancement mathematical reflective thinking ability of students who received learning with REACT strategy is significantly higher than students who received ordinary learning when reviewed under the high KAM, medium KAM, and low KAM. (5) Mathematical *self-efficacy* of students who received learning with REACT strategy is significantly better than students who received ordinary learning.

**Kata Kunci :** Mathematical Logical Thinking, Mathematical Reflective Thinking, *Self-efficacy*, REACT Strategy

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