ABSTRAK

Muhamad Risky. (2025). Analisis Kemampuan Komunikasi Matematis Siswa SMP Ditinjau dari *Self Confidence* dalam Menyelesaikan Soal Segitiga dan Segiempat Berbasis Budaya Lokal. Skripsi. Tanjungpinang: Program Studi Pendidikan Matematika, Fakultas Keguruan dan Ilmu Pendidikan Matematika, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Mariyanti Elvi, S.Pd., M.Pd. Pembimbing II: Assist. Prof. Nurul Hilda Syani Putri, S.Pd., M.Si.

Kata Kunci: Kemampuan komunikasi matematis, *Self confidence,* Segitiga dan segiempat, Berbasis Budaya

Pendidikan matematika memiliki peran fundamental dalam mengembangkan intelektual siswa, dengan komunikasi matematis menjadi kunci penting dalam proses pembelajaran. Penelitian ini bertujuan mendeskripsikan kemampuan komunikasi matematis siswa ditinjau dari *self confidence* dalam menyelesaikan soal segitiga dan segiempat berbasis budaya lokal di MTs Negeri Tanjungpinang. Studi menggunakan metode deskriptif kualitatif dengan subjek siswa kelas VIII-6, mengumpulkan data melalui observasi, tes kemampuan komunikasi matematis, skala *self confidence*, dan wawancara. Hasil penelitian menunjukkan tingkat *self confidence* siswa terdistribusi dalam tiga kategori: 18% tinggi, 52% sedang, dan 30% rendah. Siswa dengan *self confidence* tinggi mampu memenuhi seluruh indikator komunikasi matematis, meliputi mengekspresikan ide matematis dalam gambar, menghubungkan konsep matematika dengan benda nyata, memahami dan mengevaluasi ide matematis, serta menyatakan peristiwa sehari-hari dalam simbol matematis. Siswa berkategori *self confidence* sedang hanya mampu memenuhi sebagian indikator, sedangkan siswa dengan *self confidence* rendah tidak dapat memenuhi indikator komunikasi matematis. Penelitian menyimpulkan adanya hubungan signifikan antara *self confidence* dan kemampuan komunikasi matematis, dengan implikasi pentingnya pengembangan strategi pedagogis yang memperhatikan aspek psikologis siswa dalam pembelajaran matematika, khususnya geometri.

ABSTRACT

Muhamad Risky. (2025). Analysis of Junior High School Students' Mathematical Communication Ability Viewed from Self-Confidence in Solving Triangle and Quadrilateral Problems Based on Local Culture. Undergraduate Thesis. Tanjungpinang: Mathematics Education Study Program, Faculty of Teacher Training and Mathematics Education, Raja Ali Haji Maritime University. Advisor I: Assist. Prof. Mariyanti Elvi, S.Pd., M.Pd. Advisor II: Assist. Prof. Nurul Hilda Syani Putri, S.Pd., M.Si.

Keywords: Mathematical communication ability, Self confidence, Triangles and quadrilaterals, Culture-Based

Mathematics education plays a fundamental role in developing students' intellectual capabilities, with mathematical communication being a crucial key in the learning process. This study aimed to describe students' mathematical communication abilities in terms of self-confidence when solving triangle and quadrilateral problems based on local culture at MTs Negeri Tanjungpinang. The study employed a qualitative descriptive method with eighth-grade students as subjects, collecting data through observation, mathematical communication ability tests, self-confidence scales, and interviews. Research findings revealed students' self-confidence levels distributed across three categories: 18% high, 52% medium, and 30% low. Students with high self-confidence were able to meet all mathematical communication indicators, including expressing mathematical ideas through drawings, connecting mathematical concepts with real objects, understanding and evaluating mathematical ideas, and representing daily events in mathematical symbols. Medium self-confidence students could only fulfill partial indicators, while low self-confidence students failed to meet mathematical communication indicators. The study concludes a significant relationship between self-confidence and mathematical communication abilities, with implications emphasizing the importance of developing pedagogical strategies that consider students' psychological aspects in mathematics learning, particularly geometry.