

## ABSTRAK

### **Vinky Ruth Amelia Br Hasibuan, NIM 4193111018 (2019), Pengaruh Kemampuan Komunikasi Matematis, Kemampuan Visual, Kemampuan Spasial Dan Kemampuan Literasi Matematis Terhadap Kemampuan Pemecahan Masalah Matematika Siswa**

Penelitian ini dilakukan untuk mengetahui besar pengaruh secara parsial maupun secara simultan antara kemampuan komunikasi matematis, kemampuan kiasual, kemampuan spasial dan kemampuan literasi matematis terhadap kemampuan pemecahan masalah matematika siswa SMP Negeri 6 Percut Sei Tuan. Dalam melakukan penelitian ini akan memanfaatkan data primer melalui salah satu jenis pendekatan yaitu pendekatan kuantitatif . Lalu analisis data yang digunakan adalah analisis regresi linier berganda, dengan menggunakan data penelitian melalui dengan sampel penelitian yaitu nilai kemampuan komunikasi matematis, nilai kemampuan visual, nilai kemampuan spasial, nilai kemampuan literasi matematis dan nilai kemampuan pemecahan masalah matematika siswa kelas VIII-2 dan kelas VIII-3 SMP Negeri 6 Percut Sei Tuan. Hasil penelitian yang telah dilakukan di SMP Negeri 6 Percut Sei Tuan melalui uji analisis regresi linier sederhana ditemukan bahwa nilai  $t_{hitung}$  dari masing-masing variabel bebas lebih besar dari  $t_{tabel}$  ( $t_{hitung} > t_{tabel}$ ) yang mengartikan adanya pengaruh secara parsial antara kemampuan komunikasi matematis, kemampuan visual, kemampuan spasial dan kemampuan literasi matematis terhadap kemampuan pemecahan masalah matematika siswa SMP Negeri 6 Percut Sei Tuan dan juga ditemukan bahwa nilai  $f_{hitung} > f_{tabel}$  ( $12,532 > 2,58$ ) yang mengartikan adanya pengaruh secara simultan antara kemampuan komunikasi matematis, kemampuan visual, kemampuan spasial dan kemampuan literasi matematis terhadap kemampuan pemecahan masalah matematika siswa SMP Negeri 6 Percut Sei Tuan.

**Kata Kunci:** Kemampuan Komunikasi Matematis, Kemampuan Visual, Kemampuan Spasial, Kemampuan Literasi Matematis, Kemampuan Pemecahan Masalah Matematika.

## ABSTRACT

**Vinky Ruth Amelia Br Hasibuan, NIM 4193111018 (2019), The Influence Of Mathematical Communication Skills, Visual Skills, Spatial Abilities And Mathematical Literacy Abilities On Students' Mathematical Problem Solving Abilities**

This study was conducted to determine the magnitude of the influence partially or simultaneously between mathematical communication skills, celestial abilities, spatial abilities and mathematical literacy skills on the mathematical problem solving ability of SMP Negeri 6 Percut Sei Tuan students. In conducting this research will utilize primary data through one type of approach, namely quantitative approach. Then the data analysis used is multiple linear regression analysis, using research data through research samples, namely the value of mathematical communication skills, visual ability values, spatial ability values, mathematical literacy ability values and mathematical problem solving ability scores of grade VIII-2 and grade VIII-3 students of SMP Negeri 6 Percut Sei Tuan. The results of research that has been conducted at SMP Negeri 6 Percut Sei Tuan through a simple linear regression analysis test found that the  $t_{hitung}$  value of each independent variable is greater than  $t_{tabel}$  ( $t_{hitung} > t_{tabel}$ ) which means a partial influence between mathematical communication skills, visual abilities, spatial abilities and mathematical literacy abilities on the mathematical problem solving ability of SMP Negeri 6 Percut Sei Tuan students and it was also found that the value of  $f_{hitung} > f_{tabel}$  ( $12.532 > 2.58$ ) which means that there is a simultaneous influence between mathematical communication skills, visual skills, spatial abilities and mathematical literacy skills on the mathematical problem solving ability of SMP Negeri 6 Percut Sei Tuan students.

**Keywords:** Mathematical Communication Skills, Visual Skills, Spatial Skills, Mathematical Literacy Skills, Mathematical Problem Solving Abilities.

