

## ABSTRAK

**HENDRIKSON R PANJAITAN. Analisis Kemampuan Pemecahan Masalah dan Berpikir Kreatif Matematis Siswa Melalui Penerapan Model Problem Based Learning Pada Siswa Kelas VIII SMP Jendral Sudirman Medan.** Tesis. Medan: Program Studi Pendidikan Matematika Program Pascasarjana Universitas Negeri Medan. 2020

Penelitian ini bertujuan untuk: 1) Menganalisis tingkat kemampuan pemecahan masalah dan berpikir kreatif matematis siswa yang diajar dengan menggunakan model Problem Based Learning. 2) Menganalisis tingkat kemampuan pemecahan masalah ditinjau dari berpikir kreatif matematis siswa yang diajar dengan menggunakan model Problem Based Learning. 3) Menganalisis indikator pemecahan masalah dan berpikir kreatif manakah yang lebih dominan dengan menggunakan model Problem Based Learning. 4) Menganalisis banyaknya indikator yang sulit dari kemampuan pemecahan masalah dan berpikir kreatif matematis siswa yang diajar dengan menggunakan model Problem Based Learning. Subjek dalam penelitian ini melibatkan siswa SMP Jendral Sudirman Medan Kelas VIII sebanyak 38 orang siswa yang diberi perlakuan pembelajaran Problem Based Learning pada semester genap tahun pelajaran 2019/2020 dengan jumlah siswa 38 orang. Hasil penelitian menunjukkan bahwa: 1) Kemampuan pemecahan masalah matematis siswa dengan model Problem Based Learning. Siswa berkemampuan tinggi ada sebanyak 11 orang (28,94 %), siswa berkemampuan sedang sebanyak 8 orang (21,05 %), dan siswa berkemampuan rendah ada sebanyak 19 orang (50%). 2) Sedangkan kemampuan berpikir kreatif matematis siswa dengan model Problem Based Learning. Siswa berkemampuan tinggi ada sebanyak 8 orang (21,05 %), siswa berkemampuan sedang sebanyak 15 orang (39,47 %), dan siswa berkemampuan rendah ada sebanyak 15 orang (39,47%). 3) Siswa yang memiliki berpikir kreatif matematis tinggi dengan skor 93,75 memiliki kemampuan pemecahan masalah kategori tinggi juga dengan skor 93,75. Siswa yang memiliki berpikir kreatif sedang dengan skor 75 memiliki kemampuan pemecahan masalah kategori sedang juga dengan skor 68,75, dan siswa yang memiliki berpikir kreatif rendah dengan skor 43,75 memiliki kemampuan pemecahan masalah kategori rendah pula dengan skor 50.

**Kata Kunci :** Kemampuan Pemecahan Masalah Matematis, Kemampuan Berpikir Kreatif Matematis, Problem Based Learning,

## ABSTRACT

**HENDRIKSON R PANJAITAN. Analysis Of Problem Solving Ability and Creative Thinking Ability Of Mathematic Students Through The Application Of The Problem Based Learning Model In Class VIII Students Of SMP Jendral Sudirman Medan** Thesis. Medan: Mathematics Education Postgraduate Programme, State University Of Medan, 2020.

This study aims to: 1) Analyze the level of problem solving abilities and mathematics creative thinking of students who are taught using the Problem Based Learning model. 2) Analyze the level of problem solving ability in terms of mathematics creative thinking of students who are taught using the Problem Based Learning model. 3) Analyze indicators of problem solving and creative thinking which is more dominant using the Problem Based Learning model. 4) Analyze the number of difficult indicators of problem solving ability and mathematics creative thinking of students taught using the Problem Based Learning model. Subjects in this study involved 38 students from Jendral Sudirman Medan Class VIII students who were treated with Problem Based Learning in the even semester of 2019/2020 with 38 students. The results showed that: 1) Mathematics problem solving abilities of students with Problem Based Learning models. There were 11 high ability students (28.94%), 8 medium ability students (21.05%), and 19 less ability students (50%). 2) Whereas students' mathematics creative thinking abilities with problem based learning models. There were 8 students with high ability (21.05%), 15 students with medium ability (39,47%), and 15 students with low ability (39,47%). 3) Students who have high mathematics creative thinking with a score of 93.75 have high category problem solving skills with a score of 93.75. Students who have medium creative thinking with a score of 75 have medium category problem solving abilities with a score of 68.75. And students who have low creative thinking with a score of 43.75 have less ability to solve category problems with a score of 50.

**Keywords :** Mathematics Problem Solving Abilities, Mathematics Creative Thinking Abilities, Problem Based Learning.

