

ABSTRAK

ESTER NOVARIDA SIBURIAN. Pengaruh Pendekatan Matematika Realistik Terhadap Kemampuan Koneksi Matematis Siswa Kelas V SD Negeri 105366 Sei Nagalawan Serdang Bedagai TA 2017 / 2018. Tesis. Medan: Program Studi Pendidikan Dasar Pascasarjana Universitas Negeri Medan, 2018.

Kemampuan Koneksi Matematis diperlukan untuk menerapkan pendidikan yang diperoleh siswa ke kehidupan sehari-hari. Namun Kemampuan Koneksi Matematis siswa kelas V SD Negeri 105366 Sei Nagalawan masih tergolong rendah dilihat dari kemampuan siswa dalam menjawab pertanyaan yang berkaitan dengan koneksi matematis. Oleh karena itu, penelitian ini bertujuan untuk menelaah pengaruh Kemampuan Koneksi Matematis yang dibelajarkan dengan Pendekatan Matematika Realistik (PMR) dan Pembelajaran Konvensional; besar pengaruh Pendekatan Matematika Realistik (PMR) terhadap Kemampuan Koneksi Matematis siswa dan aktivitas siswa selama pembelajaran. Penelitian ini merupakan penelitian kuasi eksperimen. Populasi dalam penelitian ini adalah seluruh siswa kelas V SD Negeri 105366 Sei Nagalawan yang berjumlah 55 siswa. Instrumen yang digunakan terdiri dari: tes kemampuan awal matematika dan tes kemampuan koneksi matematis. Data dianalisis dengan Uji Analisis Regresi Sederhana. Berdasarkan hasil analisis tersebut diperoleh hasil penelitian yaitu kemampuan koneksi matematis siswa yang memperoleh pendekatan matematika realistik lebih tinggi daripada siswa yang memperoleh pembelajaran konvensional; Pendekatan Matematika Realistik (PMR) memberikan pengaruh terhadap kemampuan koneksi matematis siswa kelas V SD Negeri 105366 Sei Nagalawan karena ditemukan bahwa koefisien regresi bertanda positif, bahkan akan meningkatkan kemampuan koneksi matematis sebesar 0,955 dari sebelumnya. Besarnya persentase Pendekatan Matematika Realistik (PMR) memberikan pengaruh terhadap kemampuan koneksi matematis sekitar 77-77,8%, sedangkan sisanya yaitu sekitar 22,2-23% kemungkinan dipengaruhi faktor selain Pendekatan Matematika Realistik (PMR) yakni faktor pengetahuan pra syarat, pengetahuan pada mata pelajaran lain, dan pengalaman di kehidupan sehari-hari; dan aktivitas siswa selama pembelajaran menggunakan pendekatan matematika realistik, dan keberhasilan tindakan pada Aktivitas siswa selama pembelajaran menggunakan pendekatan matematika realistik secara sebesar 91,17 dengan kategori sangat baik.

Kata Kunci: Pendekatan Matematika Realistik, Pembelajaran Konvensional dan Kemampuan Koneksi Matematis.

ABSTRACT

ESTER NOVARIDA SIBURIAN. The Influence of Realistic Mathematical Approach toward Students' Mathematical Connections Ability at Public Primary School 105366 Sei Nagalawan Serdang Bedagai Academic Year 2017/2018. Thesis. Medan : Major Postgraduate Elementary Education of State University Medan, 2018.

Mathematical Connection Ability is needed to apply education that students get to everyday life. But the Mathematical Connection Ability of the fifth grade students of Public Elementary School 105366 Sei Nagalawan is still relatively low in terms of students' ability to answer questions related to mathematical connections. Therefore, this study aims to examine the influence of Mathematical Connection Ability taught by Realistic Mathematical Approaches (PMR) and Conventional Learning; the influence of the Realistic Mathematical Approach (PMR) on the ability of students' mathematical connections and student activities during learning. This research is a quasi-experimental study. The population in this study were all fifth grade students of Public Elementary School 105366 Sei Nagalawan, totaling 55 students. The instruments used consisted of: a test of the initial mathematical abilities and a test of mathematical connection abilities. Data were analyzed by Simple Regression Analysis Test. Based on the results of the analysis, the results of the study were obtained, namely the mathematical connection ability of students who obtained a realistic mathematical approach higher than students who obtained conventional learning; The Realistic Mathematics Approach (PMR) has an influence on the mathematical connection ability of the fifth grade students of SD Negeri 105366 Sei Nagalawan because it was found that the regression coefficient is positive, even increasing the mathematical connection ability of 0.955 than before. The percentage of the Realistic Mathematics Approach (PMR) has an influence on the mathematical connection ability of about 77-77.8%, while the rest, which is around 22.2-23%, may be influenced by factors other than the Realistic Mathematical Approach (PMR), namely pre-requisite knowledge, knowledge in other subjects, and experience in everyday life; and student activities during learning using a realistic mathematical approach, and the success of actions on student activities during learning using a realistic mathematical approach in the amount of 91.17 with a very good category.

Keywords: Realistic Mathematical Approach, Conventional Learning and Mathematical Connection Ability.