R Maisaroh Rezyekiyah Siregar, (2014). Peningkatan kemampuan pemecahan masalah matematis dan kemandirian belajar siswa melalui Pendekatan Pendidikan Matematika Realistik pada siswa MTs Dar Al-Maarif Kotapinang. Tesis Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan, 2014.

ABSTRAK

Tujuan dari penelitian ini untuk menelaah: (1) peningkatan kemampuan pemecahan masalah matematik siswa yang menggunakan Pendekatan Pendidikan Matematika Realistik, (2) interaksi antara pendekatan pembelajaran dengan kemampuan awal matematika siswa terhadap peningkatan kemampuan pemecahan masalah matematis siswa, (3) peningkatan kemandirian belajar siswa yang menggunakan Pendekatan Pendidikan Matematika Realistik, (4) interaksi antara pendekatan pembelajaran dengan kemampuan awal matematika siswa terhadap peningkatan kemandirian belajar siswa, (5) proses jawaban matematis siswa menggunakan Pendekatan Pendidikan Matematika Realistik dan pembelajaran langsung. Populasi dalam penelitian ini adalah seluruh siswa MTs Dar AL-Maarif Kotapinang, dengan mengambil sampel dua kelas. Instrumen yang digunakan terdiri dari: tes kemampuan pemecahan masalah matematis dan angket kemandirian belajar siswa. Instrumen tersebut dinyatakan telah memenuhi syarat validitas isi, serta koefisien reliabilitas. Data dianalisis dengan uji ANAVA dua jalur. Diperoleh hasil penelitian yaitu: (1) peningkatan kemampuan pemecahan masalah matematik siswa yang memperoleh pendekatan pendidikan matematika realistik lebih tinggi daripada siswa yang memperoleh pembelajaran langsung, (2) tidak terdapat interaksi antara pembelajaran dengan kemampuan awal siswa terhadap peningkatan kemampuan pemecahan masalah matematis siswa, (3) peningkatan kemandirian belajar siswa yang memperoleh pendekatan pendidikan matematika realistik lebih tinggi daripada siswa yang memperoleh pembelajaran langsung, (4) tidak terdapat interaksi antara pembelajaran dengan kemampuan awal siswa terhadap peningkatan kemandirian belajar siswa, (5) Proses jawaban matematis siswa melalui pendekatan pendidikan matematika realistik lebih baik daripada pembelajaran langsung. Direkomendasikan pendekatan PMR sebagai alternatif dalam mencapai kompetensi kreatif, variatif dan inovatif.

Kata Kunci: Pendidikan matematika realistik, pemecahan masalah, kemandirian belajar

R Maisaroh Rezyekiyah Siregar. Increasing the Ability of Problem Solving and Student's Self-Regulated Learning by Using Realistic Mathamatics Education approach (RME) in Seventh Year Student Class Dar AL-Maarif Kotapinang. Post Graduate Program of Medan University 2014.

The aims of this research are: (1) to know the increasing ability of problem solving mathematic student's by using Realistic Mathamatics Education approach, (2) to know there was the interaction between learning and first mathematic ability toward the increasing ability of problem solving mathematic, (3) to know the increasing ability of student's self-regulated learning by using Realistic Mathamatics Education approach, (4) to know there was the interaction between learning and first mathematic ability toward the increasing ability of student's self-regulated learning, (5) to know how the answering process are made by the students in finishing the questions by using Realistic Mathamatics Education approach. This research was carried out at MTs Dar Al-Maarif Kotapinang. The population in this research is the student grade 1 (one) by taking a sample of the two classes. The Data obtained through test THURS, tests the ability of mathematical problem solving and questionnaire student's self-regulated learning . The Data were analyzed with the test of ANAVA two lines. The result of this research shown that (1) there was the increasing ability in problem solving mathematic student's by using Realistic Mathamatics Education approach was better than using direct struction, (2) there were no interaction between learning and student's ability level to the increasing ability of problem solving mathematic, (3) there was the increasing ability in student's self-regulated learning by using Mathematical approach is Realistic was better than used direct instruction, (4) there were no interaction between learning and student's ability level to the increasing ability of problem solving , (5) the process of problem solving in student's answering questions by using learning based problem was better than direct instruction. Research findings recommend RME approach was made one of the learning approaches used in primary schools to conduct varied and innovative learning.

Keyword: Realistic Mathamatics Education,Problem Solving,Self-Regulated Learning.