

## ABSTRAK

**MAISARAH.8146181016.** Perbedaan Pengaruh Model Pembelajaran *Hands-On Mathematics* dan *Realistic Mathematics Education* terhadap Kemampuan Pemahaman Relasional Dan *Mathematics Anxiety* Siswa SDIT Khairul Imam.

Penelitian ini bertujuan untuk menganalisis: (1) pengaruh model pembelajaran HOM dan RME terhadap kemampuan pemahaman relasional; (2) peningkatan kemampuan pemahaman relasional siswa yang diajarkan dengan HOM dan RME; (3) pengaruh model pembelajaran HOM dan RME terhadap *mathematics anxiety*. Penelitian berbentuk *Pre-Experimental Design* dengan rancangan *Two Group Pretest-Posttest*. Instrumen yang digunakan yaitu tes kemampuan pemahaman relasional, angket *mathematics anxiety* dan lembar pengamatan. Analisis data menggunakan uji-t dan *gain score*. Hasil penelitian menunjukkan: (1) Pengaruh HOM lebih baik dibandingkan RME terhadap kemampuan pemahaman relasional, hal ini berdasarkan  $t_{hitung} (=3,081)$  lebih besar dari  $t_{tabel} (=1,671)$ ; (2) Peningkatan kemampuan pemahaman relasional siswa yang diajarkan dengan HOM lebih tinggi dari RME, hal ini berdasarkan *gain score* dan karakteristik model. HOM menggunakan alat peraga yang dieksplor, sedangkan RME menggunakan masalah kontekstual berbentuk cerita; (3) Pengaruh HOM lebih baik dibandingkan RME terhadap *mathematics anxiety*, hal ini berdasarkan  $t_{hitung} (= -1,219)$  lebih kecil dari  $t_{tabel} (=1,671)$ .

Kata kunci: bangun datar, *hands-on mathematics*, kemampuan pemahaman relasional, *mathematics anxiety*, *realistic mathematics education*.

## ABSTRACT

**MAISARAH.8146181016.***The Differences Effect of Hands-On Mathematics Learning Model and Realistic Mathematics Education towards Relational Understanding And Mathematics Anxiety of Students on SDIT Khairul Imam.*

*This study aimed to analyze: (1) Effect of the HOM learning model and RME on the ability of relational understanding; (2) increase the ability of students' relational understanding by HOM and RME; (3) Effect of the HOM learning model and RME on the ability of mathematics anxiety. This study was Pre-Experimental Research Design with Two group pretest-posttest. The instruments are relational understanding test, mathematics anxiety questionnaire and observation sheet. Data analysis using t-test and gain score. The results showed: (1) Effect of HOM better than RME on the ability of relational understanding, it is based on  $t_{hitung}$  (= 3.081) greater than  $t_{tabel}$  (= 1.671); (2) Increasing the capability of students' relational understanding who are taught by HOM higher than RME, it is based on the gain score and characteristics of models. HOM using props are explored, while the RME uses contextual problems with shaped the story; (3) Effect of HOM better than RME on mathematics anxiety, it is based on  $t_{hitung}$  (= -1.219) is smaller than  $t_{tabel}$  (= 1.671).*