

Widiastuti, Rizki Desi. *An Impact of Realistic Mathematics Education in Understanding of Multiplication of Whole Number Concept in Second Grade Students in Primary School of Bakalanpule II Lamongan*. Thesis. Primary School Teacher Education Department. Faculty of Education Science, University of Trunojoyo Madura. Advisor I: Mohammad Edy Nurtamam, S.Pd., M.Si, Advisor II: Mahmud S.IP., M.Si.

ABSTRACT

The aim of this research was to investigate the impact on Mathematics learning using realistic mathematics education in understanding of multiplication of whole number concept in second grade students in primary school of Bakalanpule II Lamongan. This research used quantitative research design. The research design that used in this research was quasi experimental design with nonequivalent control group design. The sample in this reasearch consisted of 40 students, 20 students in classroom experiment and 20 students in classroom control. Method of data collection in this research used test and observation. There were several stages used in this research namely validity test, reability test, level of difficulties test, normality test, homogeneity test, independent t-test. The research findings indicate that a significant difference in realistic mathematics educationin understanding of multiplication of whole number concept based on independent t-test of posttest $t_{\text{count}} = 9.461$ and $t_{\text{table}} = 2.024$ and a significant level of $\alpha = 5\%$. In accordance with testing rules, $t_{\text{count}} > t_{\text{table}}$, then $9.461 > 2.024$ H_0 is rejected. It means that there is a significant difference in realistic mathematics education in understanding of multiplication of whole number concept in second grade students in primary school of Bakalanpule II Lamongan.

Keywords : *Realistic Mathematics Education, Multiple of whole number, Understanding a concept*