ABSTRACT

FITRI LESTARI. "Model Application of Knisley Math Study for Developing Mathematical Concept Understanding in 8th grade of SMP Negeri 179". A Thesis of Math Education Program, Faculty of Mathematics and Science, Universitas Negeri Jakarta.

According to previous research and early test result in SMP Negeri 179 still lack of mathematics understanding and it needs to develop again. One of learning model is learning of understanding with Model Application of Knisley Math Study. It is interpreted by Knisley into four steps for study mathematics. The purpose of this research is to find how does the application mathematics model learning Knisley to improve students understanding of mathematics concept.

This research is classroom action research with three cycles learning. The data source is 8-5th grade students of SMP Negeri 179 Jakarta. The data was took in 14th February 2017 until 14th March 2017.

Based on research the result is the improvement of students mathematics understanding can be seen in each cycles learning test of sixth subject. SP1, SP3 and SP5 increased in each cycles. SP1 shows in first cycle 71,43. Then, in second cycle shows 80. In third cycle increased to 100. SP3 shows 86,7. SP5 shows 71,43 in first cycle. After that, it increased in second cycle with 80. In third cycle shows 86,67. However, in SP2, SP4 and SP6 descend in last test of third cycle. SP2 in first cycle shows 66,77. Then, it increased in second cycle 26,53 with 93,33. Third cycle descend with 86,67. SP4 shows 85,71 in first cycle, then it increased in second cycle with 73,33. Next, in third cycle SP6 descend to 13,33 with 60 score. However, the accomplishment of five indicators to understanding mathematics concept from three subject research is complete with good result.

Keywords: Model Application of Knisley Math Study, Mathematic concept Understanding