

Nikyusnee Ahmah 2013: The Study of Mathematics Learning Achievement and Problem Solving Ability of Prathomsuksa Six Students on the Application by Using Heuristic at Anuban Pattani School. Master of Education (Teaching Mathematics), Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Associate Professor Siriporn Thipkong, Ed.D. 185 pages.

The purposes of this research were 1) to study students' mathematics learning achievement of prathomsuksa six students on the application by using heuristic and 2) to study students' mathematics problem solving ability of prathomsuksa six students on the application by using heuristic.

The population was prathomsuksa six students at Anuban Pattani School. The sample group was 45 prathomsuksa six students of one classroom that was selected by cluster random sampling from 5 classrooms of 225 students at Anuban Pattani School in the second semester of the academic year 2012. The instruments in data collection consisted of 13 lesson plans on the application by using heuristic, mathematics learning achievement tests on the application, ability evaluation forms in solving mathematics problems on the application. Percentage, mean, standard deviation, and t-test were used for analyzing data and presented by tables with their corresponding description.

The results of study revealed that the mathematics learning achievement on the application by using heuristic of students after learning was higher than before learning and was higher than 60% at the .05 level of significance. The mathematics problem solving ability on the application by using heuristic of students after learning was higher than before learning at the .05 level of significance and was at the "medium" level.

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Thesis Advisor's signature