Suchada Sodsangaroonngam 2014: The Study of Mathematics Learning Achievement of Mathayomsuksa Two Students on "Applications of Linear Equations with One Variable" by Emphasizing Heuristics Thinking at Phrapathom Witthayalai School, Changwat Nakhon Pathom. Master of Education (Teaching Mathematics), Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Associate Professor Siriporn Thipkong, Ed.D. 125 pages.

The purposes of this research were 1) to study students' mathematics learning achievement of mathayomsuksa two students on applications of linear equations with one variable by emphasizing heuristics thinking and 2) to study students' opinion related to learning activities on applications of linear equations with one variable by emphasizing heuristics thinking.

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The population of this research was mathayomsuksa two students at Phrapathom Witthayalai School. The sample group was 50 mathayomsuksa two students of one classroom that was selected by cluster random sampling from 12 classrooms at Phrapathom Wittayalai School in the second semester of the academic year 2013. The instruments in data collection consisted of 11 lesson plans on applications of linear equations with one variable by emphasizing heuristics thinking, mathematics learning achievement test on applications of linear equations with one variable, and students' questionnaire related to learning activities on applications of linear equations with one variable by emphasizing heuristics thinking. The data were analyzed by the percentage, mean, standard deviation, t-test and presented by tables charts with their corresponding description.

The results revealed that the mathematics learning achievement of mathayomsuksa two students after learning on applications of linear equations with one variable by emphasizing heuristics was higher than before learning and was higher than 60% at the .05 level of significance and most students' opinion related to learning activities on applications of linear equations with one variable by emphasizing heuristics thinking was at the high level.

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