Salidda Jutiwetch 2010: The Study of Mathematics Learning Achievement of Mathayomsuksa One Students on "Linear Equation with One Variable" by Using Multimedia at Kongkaram School, Changwat Phetchaburi. Master of Education (Teaching Mathematics), Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Assistant Professor Chanon Chuntra, Ph.D. 140 pages.

The purpose of this research were to study mathematics learning achievement on "Linear Equation with One Variable" by using multimedia and to study students' opinions related to learning activities on "Linear Equation with One Variable" by using multimedia of mathayomsuksa one students at Kongkaram School, Changwat Phetchaburi.

The sample group was 44 mathayomsuksa one students at Kongkaram School in the second semester of the acadamic year 2009 that was selected by cluster random sampling from 12 classrooms. The instruments in data collection consisted of 10 lesson plans on "Linear Equation with One Variable", construced multimedia, mathematics learning achievement test on "Linear Equation with One Variable", and students' questionnaire toward learning activities on "Linear Equation with One Variable" by using multimedia. Percentage, mean, standard deviation, and t-test were used for analyzing data.

The research results showed that the mathematics learning achievement of mathayomsuksa one students on "Linear Equation with One Variable" by using multimedia after learning was higher than before learning at the .05 level of significance and the mathematics learning achievement after learning was higher than 60% at the .05 level of significance and almost all students totally agreed that the learning activities were appropriate.

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