

Jakkaphong Piewnaun 2013: The Study of Ability in Learning Mathematics on Variation by Using Learning Activity with K-W-D-L Technique of Mathayomsuksa Three Students at Kasersart University Laboratory School, Center for Educational Research and Development. Master of Education (Teaching Mathematics), Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Assistant Professor Chanon Chuntra, Ph.D. 199 pages.

The purposes of this research were 1) to study mathematics learning achievement on Variation by using learning activity with K-W-D-L technique 2) to study ability in mathematical word problems solving on Variation by using learning activity with K-W-D-L technique and 3) to study students' opinions related to learning management with K-W-D-L technique of mathayomsuksa three students at Kasersart University Laboratory School, Center for Educational Research and Development.

The sample group was 38 mathayomsuksa three students of one classroom at Kasersart University Laboratory School, Center for Educational Research and Development in the second semester of the academic year 2012 that was selected by cluster random sampling from 7 classrooms. The instruments in data collection consisted of lesson plans on Variation with K-W-D-L technique, mathematics learning achievement test on Variation, ability evaluation forms in solving mathematical word problem on Variation, and students' opinions questionnaire toward learning management with K-W-D-L technique. Percentage, mean, standard deviation, and t-test were used for analyzing data.

The research results showed that the mathematics learning achievement on Variation by using learning activity with K-W-D-L technique of students after learning was higher than before learning and was higher than 60% at the .05 level of significance. The students had ability in the mathematical word problems solving on Variation at the "very good" level. Almost all students strongly agreed that the learning management with K-W-D-L technique was appropriate.

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Student's signature

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Thesis Advisor's signature