

Kamonkarn Nopsopon 2011: The Study of Ability in Solving Mathematics Word Problems on “Percent” of Prathomsuksa Six Students by Using the K-W-D-L Technique at Prachaniwet School, Bangkok. Master of Education (Teaching Mathematics), Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Mr. Songchai Ugsonkid, Ed.D. 138 pages.

The purposes of this research were 1) to study ability in solving mathematics word problems on “Percent” of prathomsuksa six students by using the K-W-D-L technique, 2) to study mathematics learning achievement on “Percent” of prathomsuksa six students by using the K-W-D-L technique, and 3) to study opinions related to learning activities by using the K-W-D-L technique of prathomsuksa six students.

The sample group was 41 prathomsuksa six students of one classrooms at Prachaniwet School in the second semester of the academic year 2010 that was selected by cluster random sampling from 5 classrooms. The instruments in data collection consisted of 11 lesson plans on “Percent” by using the K-W-D-L technique, the ability test in solving mathematics word problems on “Percent”, the mathematics learning achievement test on “Percent”, and students’ opinion questionnaire toward learning activities by using the K-W-D-L technique. Percentage, mean, standard deviation, and t-test were used for analyzing data.

The research findings revealed that 1) the students had abilities in solving mathematics word problems on “Percent” all 4 steps: K (What we know), W (What we want to know), D (What we do to find out), and L (What we learned) with the total average at the “good” level, 2) the mathematics learning achievement after learning was higher than 60% at the .05 level of significance, and 3) almost all students agreed that the learning activities by using the K-W-D-L technique were appropriate.

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Student’s signature

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Thesis Advisor’s signature