

Teerawan Chaiphichit 2008: The Development of Ability in Solving Mathematics Problems on “Applications of Linear Equations with One Variable” by Using Local Information of Mathayomsuksa II Students at Tessaban III School (Wimooktayonwittaya). Master of Arts in Teaching, Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Mr.Chanon Chuntra, Ph.D. 201 pages.

The purposes of this research were 1) to develop students’ ability in solving mathematics problems on “Applications of Linear Equations with One Variable” by using local information 2) to study students’ learning achievements such as mathematics learning achievement, ability in solving mathematics problems, problem solving skills and group working skills and 3) to study students’ opinions related to learning activities on “Applications of Linear Equations with One Variable” by using local information of Mathayomsuksa II at Tessaban III School (Wimooktayonwittaya)

The population was 44 Mathayomsuksa II students at Tessaban III School (Wimooktayonwittaya) in the second semester of the academic year 2007. The instruments in data collection consisted of achievement test, tests on ability to solve mathematical problems, problems’ solving skill evaluation form, group working skill evaluation forms, and students’ questionnaire. Percentage, mean, standard deviation and coefficient of variation were used for analyzing data, and presented by tables, charts with their corresponding descriptions.

The research findings revealed that the students had developed the solving problem abilities in all 4 ways: to understand the problems, to devise a plan, to carry out the plan, and to examine the solution with the total average of the “good” level. The mathematics learning achievement after learning was higher than before learning and the mathematics learning achievement after learning had passed the standard level required at least 60% by the Ministry of Education. The students had showed development of problems’ solving skills and group working skills with the total average at the high level and almost all students agreed that the learning activities were appropriate.

Teerawan Chaiphichit

Student’s signature

Chanon Chuntra

Thesis Advisor’s signature

27 / 05 / 08