

ABSTRACT

Thesis Title : A Study of Academic Achievement in Mathematics and Attitude towards Mathematics of Matthayom Suksa 1 students using the different difficulty formative tests

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The purposes of this study were : 1) to study the achievement in learning mathematics of Matthayom Suksa 1 students administered with 3 different difficulty levels of formative tests namely, low difficulty level, average difficulty level, and high difficulty level according to their ability in learning mathematics , and 2) to study the change of attitude towards mathematics of Matthayom Suksa 1 students administered with 3 different difficulty levels of formative tests.

Samples were 90 Matthayom Suksa 1 students of Sawangarom School, Sawangarom District, Uthaitanee Province by means of stratified random sampling technique. They were grouped into a group of 30 and each group was administered with the tests in each difficulty level. ANOVA and Scheffe's Technique were used to analyze the data.

The finding of the study were :

1. The achievement scores of the students with high learning ability and the students with average learning ability obtained from the three difficulty level of tests were different, no statistically significant.

2. The students with low learning ability had different achievement scores statistically significant at the level of 0.01. Those administered with the low difficulty level tests had lower achievement scores than the ones administered with the average difficulty level tests and the ones administered with the high difficulty level tests.

3. The change of attitude towards mathematics of the students obtained from the three difficulty level of tests were different, no statistically significant.