

PRAPAPORN SRIKUM : A COMPARISON OF MATHEMATICS LEARNING ACHIEVEMENT ON DETERMINATION OF AREAS OF DISTANT LEARNERS IN CHACHOENGSAO PROVINCE AT THE LOWER SECONDARY EDUCATION LEVEL UNDER THE JURISDICTION OF NON FORMAL, EDUCATION DEPARTMENT USING INDIVIDUALIZED LEARNING PACKAGE AND THE TEXT BOOK OF NON FORMAL, EDUCATION DEPARTMENT. THESIS ADVISOR : PROF.RATANA POOMPAISALN, Ph.D., ONJAREE NATAKUATUNG, Ph.D.,199 PP. ISBN 974-582-493-3

The purpose of this research was to compare mathematics learning achievement on determination of areas of distant learners in Chachoengsao province at the lower secondary education level under the jurisdiction of the non-formal education department using individualized learning package and the text book of non-formal education department.

The sample were two groups of distant learners who enrolled in mathematics in second semester. (November 1992-March 1993) The group learned by using individualized learning package was the experimental group and the group learned by the text book of non-formal education department was the controlled group. Each group consisted 30 distant learners.

The research instrument constructed by the researcher were as follows : the individualized learning package on "Determination of Areas" with the efficiencies of 84.74/86.98; and the mathematics learning achievement test on "Determination of Areas" with the reliabilities of 0.97. After the experimental group and the controlled group studied each topic, the mathematics achievement test had been tested both groups. The data were analyzed by means of arithmetic mean, standard deviation and t-test.

The mathematics learning achievement of the group learned by using individualized learning package was higher than the group learned by the text book of non-format education department at the 0.01 level of significance which accepted the hypothesis.