Paradorn Khemakanok 2008: The Construction of Computer Assisted Instruction on Geometric Transformation for Mathayomsuksa 1 Students at Kasetsart University Laboratory School, Multi - Lingual Program, Center for Educational Research and Development, Changwat Chon Buri. Master of Arts in Teaching, Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Mrs. Chanisvara Lertamornpong, Ph.D. 148 pages.

The purposes of this research were 1) to construct the computer assisted instruction on geometric transformation, 2) to determine the efficiency of the computer assisted instruction on geometric transformation, 3) to study the students' progress by comparing achievement between the pretest and posttest, and 4) to study students' opinions toward the computer assisted instruction. The sample was one classroom of 34 Mathayomsuksa 1 students of the 2007 academic year selected by cluster random sampling at Kasetsart University Laboratory School, Multi - Lingual Program, Center for Educational Research and Development, Changwat Chon Buri. The instruments of this research were 1) the computer assisted instruction on geometric transformation, 2) the mathematics achievement test, and 3) the survey of students' opinion toward the computer assisted instruction. To determine the efficiency of computer assisted instruction, mean and percent were employed to analyze data. Match paired t – test was used for comparing pretest and posttest of achievement test. To determine the students' opinion on computer assisted instruction, percent was employed to analyze data.

The results of this research were 1) the efficiency of computer assisted instruction was 77.16/71.18 and higher than the criterion 70/70, 2) there was a significant difference between the pretest and the posttest at .01 level of significance, and 3) almost all students expressed their opinions that they agreed learning by using the computer assisted instruction was appropriate.

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