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KEY WORD : MATHEMATICS PROBLEM SOLVING ABILITY/COMPUTATION ABILITY/LEARNING STYLES

SUPATTRA PATIVISAN : A COMPARISON OF MATHEMATICS PROBLEM SOLVING ABILITY AND COMPUTATION ABILITY OF MATHAYOM SUKSA TWO STUDENTS WITH DIFFERENT LEARNING STYLES. THESIS ADVISOR : ASST. PROF. SUWATTANA UTAIRAT, Ph.D. 133 PP. ISBN 974-581-092-4

The purposes of this research were to study mathematics problem solving ability and computation ability of mathayom sukسا two students with different learning styles and to compare mathematics problem solving ability and computation ability of mathayom sukسا two students with different learning styles. The subjects were 378 mathayom sukسا two students which were multistage randomly sampled from secondary schools under the jurisdiction of the Department of General Education in Bangkok Metropolis during academic year 1991. The research instruments composed of the mathematics problem solving ability test with the reliability of 0.93, the computation ability test with the reliability of 0.92 and the student's learning style inventory modified from Kolb's learning style inventory with the reliability of 0.91. The data were analyzed by arithmetic mean, standard deviation and one-way analysis of variance.

The findings of the study showed that:

1. The samples, mathayom sukسا two students who had the highest mathematics problem solving ability was the group with the divergent style. The next were the convergent, the accommodative and the assimilative styles respectively. The samples, mathayom sukسا two students who had the highest computation ability was the group with the assimilative style. The next were the divergent, the accommodative and the convergent styles respectively.

2. Mathayom sukسا two students with divergent, assimilative, convergent and accommodative styles had no significant differences in mathematics problem solving abilities at the 0.05 level. Mathayom sukسا two students with divergent, assimilative, convergent and accommodative styles had no significant differences in computation abilities at the 0.05 level.