

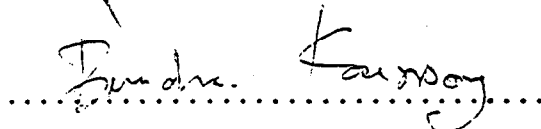
THESIS TITLE : TEACHING FRACTIONS USING THE TECHNIQUES OF
MATHEMATICAL THINKING

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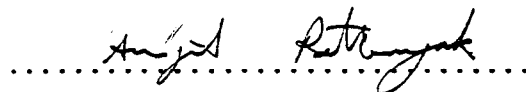
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ABSTRACT

The purpose of this study was to compare the learning achievement in mathematics of Mathayomsuksa 1 students using the techniques of thinking and the conventional approach.

The data were collected in the first semester of the academic year 1991. The subjects were Mathayomsuksa 1 students of Santi-wittasan school, Phakhao district, Loei province . The subjects were selected by mathematics achievement test, and The Random Assignment Technique was used to assign 39 subjects to the experimental group and 39 subjects to the control group.

The experimental group was taught by the techniques of thinking meanwhile the control group was taught by the conventional method. The Pretest-Posttest Control Group Design was utilized in this study.

The research tools developed by the research were the mathematics learning achievement test, the teaching plan using the techniques of thinking and the conventional teaching plan. The data were analyzed using a t-test.

The results indicated that the student learning achievement in mathematics of the experimental group was better than the control group at the .05 level of statistical significance.