

<b>Thesis title</b>	Effects of Activities of Cooperative Learning with Mainstay Students on Mathematical Achievement and Attitude of Secondary Grade 1 Students on the Topic of Ordered Pair and Graph
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### **Abstract**

The aim of this research was to study the effects of activities of cooperative learning with mainstay students on the mathematical achievement and attitude of secondary grade 1 students on the topic of ordered pair and graph at Praphatsornrangsit School, Muang District, Phatthalung Province. The samples of the experiment consisted of two classes of students of secondary grade 1 at the said school in the second term of the 2003 academic year. The samples were obtained by means of random sampling of separate groups of students to be taught. The teaching procedure was carried out through cooperative-learning activities with mainstay students, while the control group was taught normally. The teaching time was eight hours. The research instruments were an achievement test and a mathematical attitude inventory. The two instruments were administered to the samples before and after learning situation. The statistics for the data analysis were arithmetic mean, standard deviation, and t-test.

The research findings were as follows. The achievement before the learning of the experiment group and the control group was not different, but the mathematical attitude of the experiment group was lower than the control group. However, after the learning, the achievement and attitude of both groups were higher at the .01 level of statistical significance. The

achievement of the experiment group was higher than the control group at .01 level of statistical significance.

