

Saranluck Butrarat 2010: Learning Activities Management to Promote Students' Reasoning Skill on "Circle" by Using The Geometer's Sketchpad Program for Mathayomsuksa Three Students at Banglamung School, Changwat Chon Buri. Master of Education (Teaching Mathematics), Major Field: Teaching Mathematics, Department of Education. Thesis Advisor: Mrs. Chanisavara Lertamornpomg, Ph.D. 181 pages.

The purposes of this research were 1) to study reasoning ability by using The Geometer's Sketchpad program, 2) to study the mathematics learning achievement on circle by using The Geometer's Sketchpad program, and 3) to study students' opinions related to learning activities management to promote students' reasoning skill on circle by using The Geometer's Sketchpad program of mathayomsuksa three students at Banglamung School, Changwat Chon Buri.

The population was 42 mathayomsuksa three students in the second semester of academic year 2009 at Banglamung School, Changwat Chon Buri. The research instruments were lesson plans, instructional media by using The Geometer's Sketchpad program, the 17 items of mathematics learning achievement test, students' self assessment form, students' observation scale for behaviors reflecting reasoning ability, and students' questionnaire on learning activities management to promote students' reasoning skill on circle by using The Geometer's Sketchpad program. The data were analyzed by the percentage, mean and standard deviation.

The research finding revealed that 1) students had the reasoning ability on circle by using The Geometer's Sketchpad program, 2) mathematics learning achievement on circle by using The Geometer's Sketchpad program was higher than 60 %, and 3) almost all students were very satisfied with learning activities management to promote students' reasoning skill on circle by using The Geometer's Sketchpad program.

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Student's signature

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Thesis Advisor's signature