

ORAWAN NARONGSURASAK : EFFECTS OF HOMEWORK ASSIGNMENT ON MATHEMATICS LEARNING ACHIEVEMENT OF PRATHOM SUKSA SIX STUDENTS, BANGKOK METROPOLIS : STRUCTURAL ANALYSIS TECHNIQUE. THESIS ADVISORS : PROF. SOMWUNG PITIYANUWAT, Ph.D., ASST.PROF. SUWATTANA UTAIRAT, Ph.D., ASSO.PROF. SIRICHAJ KANJANAWASEE, Ph.D., 312 PP. ISBN 974-578-769-8

The purpose of this study were to analyze the effects of homework on mathematics learning achievement and effects of factors on homework assignment and on mathematics learning achievement of prathom suksa six students. The sample consisted of 1160 prathom suksa six students, 116 teachers, 116 principals and 1160 parents. The research instruments were questionnaires, mathematics achievement test, placement test, observation test and interview test. The data were analysed with the technique of structural analysis by using the computer program SPSS-X. Factor analysis by Image Factoring and Varimax Rotation and Path Analysis were used to find the factors related to homework assignment and mathematics learning achievement.

The findings were as follows:-

1. The quality of instruction, students' basic knowledge and parent caring had direct effect on mathematics learning achievement. School environment and parent education had indirect effect on mathematics learning.
2. School environment had direct effect on quality of instruction.
3. The quality of instruction had direct effect on quality of homework assignment.
4. The quality of instruction had the highest total effect (.339) on mathematics learning achievement, student's basic knowledge (.320), parent caring (.216), school environment (.113), and parent education (.072) had the significant total effect on the achievement, respectively.