

## C840793 : MAJOR EDUCATIONAL MEASUREMENT AND EVALUATION  
KEY WORD: GIFTED / MATHEMATICS / INSTRUMENTS / TEST

SUREEPORN SIRIMAL : A DEVELOPMENT OF INSTRUMENTS FOR IDENTIFYING  
GIFTED IN MATHEMATICS OF PRATHOM SUKSA SIX STUDENTS. THESIS  
ADVISORS : PROF. UTUMPOORN JAMORNMAN, Ph.D. 132 pp.  
ISBN 974-635-987-8

The purpose of this research was to develop instruments for identifying gifted in Mathematics of Prathom Suksa Six students. The subjects used in this research were 1,286 Prathom Suksa Six students of the academic year 1996 in Bangkok Metropolis. The instruments consisted of 2 sub-tests : the first sub-test consisted of 8 items of completion-type test, 24 items of multiple-choice type test and 3 items of essay-type test and the second sub-test consisted of 20 items of 5 points rating scale.

The results were as follows :

1. The first sub-tests :

1.1 The completion-type test indicated the Cronbach's Alpha internal consistency of .771 and the discriminant validity between the gifted group and the above average group was significant at the level of .01.

1.2 The multiple-choice type test indicated the KR-20 internal consistency of .753 and the discriminant validity between the gifted group and the above average group was significant at the level of .01.

1.3 The essay-type test indicated the Cronbach's Alpha internal consistency of .508 and the discriminant validity between the gifted group and the above average group was significant at the level of .01.

The second sub-test :

1.4 The Rating Scale indicated the Cronbach's Alpha internal consistency of .898 and the discriminant validity between to gifted group and the above average group was significant at the level of .01.

2. The correlation coefficients among sub-tests were .1942 to .8613 which showed significantly related at the level of .01.

ภาควิชา ศึกษาศาสตร์.....

ลายมือชื่อผู้พิมพ์.....

สาขาวิชา การวัดและประเมินผลการศึกษา.....

ลายมือชื่ออาจารย์ที่ปรึกษา.....

ปีการศึกษา 2539.....

ลายมือชื่ออาจารย์ที่ปรึกษาร่วม.....