Mathematics Achievement in Grade Eight Examination between Parbat & Kaski Districts of Nepal

For The Partial Fulfillment of the Requirements for the Degree of Master of Education

Thesis Submitted

By

Govinda Raj Gautam

Prithivi Narayan Campus

T.U. Regd. No.: 9-2-48-2396-2000

Exam Roll No.: 480394

To

Tribhuvan University

The Department of Mathematics Education

Prithivi Narayan Campus

Pokhara, Nepal

April, 2010

Tribhuvan University Department of Mathematics Education Prithivi Narayan Campus Pokhara, Nepal

Recommendation Letter

This is to certify that **Mr. Govinda Raj Gautam**, Student of academic year 2060/062 with campus Roll No: 21, Exam Roll No: 480394 and T.U. registration number 9-2-48-2396-2000 has completed his thesis under my supervision during the period prescribed by the rules and regulations of Tribhuvan University, Nepal. The thesis entitled on *''Mathematics Achievement in Grade 8 Examination between Parbat and Kaski Districts of Nepal''* has been Prepared based on the result of his investigation conducted during the Period 2064-2066 under the department of mathematics, Prithivi Narayan Campus, Bhimkalipatan, Pokhara. I recommend and forward that his thesis submitted for the evaluation as the partial requirement toward the degree of Master of Education.

.....

Mr. Loknath Adhikari

Mr. Maheshwor Pokhrel

Head

Supervisor

Department of Mathematics Education
Prithivi Narayan Campus

Bagar Pokhara

Department of Mathematics Education
Prithivi Narayan Campus

Bagar, Pokhara Bagar, Pokhara

Date: 2067/01/02

Tribhuvan University Department of Mathematics Education Prithivi Narayan Campus Pokhara, Nepal

Letter of Acceptance

Thesis Submitted
By
Govinda Raj Gautam

Entitled

on

Mathematics Achievement in Grade Eight Examination between
Parbat and Kaski District of Nepal has been Approved in
Partial Fulfillment of Requirements for the Degree of
Master of Education

Eva	lluation Committee	Signature
1	Mr. Loknath Adhikari	
	(Chairman)	
2	Prof. Dr. K.K. Shrestha	
	(External)	
3	Maheshwor Pokhrel	
	(Supervisor)	

Date: 2067/02/03

DEDICATION

This work is affectionately dedicated to my parents Gajadhar Gautam, Chandrakala Gautam and also to my spouse Mrs. Rita Sharma (Gautam).

ACKNOWLEDGEMENTS

I would like to express my gratitude and gratefulness to my supervisor as well as my teacher, Mr. Maheshwor Pokhrel, the member of the department of Mathematics, Prithivi Narayan Campus, Pokhara who provided me with all sorts of basic ideas, instructions and invaluable scholarly guidance for carrying out this research work from the very beginning to the end and enabled me to present this dissertation in this form.

My Sincere gratitude also goes to Loknath Adhikari the head of Department of Mathematics. Prithivi Narayan Campus Pokhara, who provided me an opportunity to write this thesis by approving my proposal.

Similarly, I am very grateful to express my gratitude to Prof. Dr Krishna Kumar Shrestha, Manbahadur Bhujel, Bivab Neupane, member of department of mathematics education for their valuable comments and suggestions to bring the work into present form. My thank goes to district education office Kaski and Parbat and all staffs of these offices for their kind co-operation in the acquisition of achievement scores required for this study.

Further more, I am very grateful to my brother Mr. Prem Raj Gautam and Durga Prasad Gautam for their help and encouragement.

My thank goes to all the headmaster, mathematics teachers and students of the schools which are involved in this study. Finally, I am obligated to all the friends who assisted me directly or indirectly in completing this study and to Sugam Computer Service, Bagar-1, Pokhara for effort in typing this thesis even in a small detail and difficult tables relevant to the study.

My specials thank goes to my friends Mr Narayan Prasad Sharma, Ram Prasad Subedi and proof reader Mr. Daya Ram Ojha for their kind help and co-operation. It is obvious that without their help, this study would have never been completed.

Govinda Raj Gautam

ABSTRACTS

The main aim of this study was to compare mathematics achievement of the student of Kaski and Parbat districts regarding the Variables gender and rural-urban areas.

This study was limited in Kaski and Parbat districts. Only 479 students were selected from eight schools for the sample of this study. The test Score were collected, tabulated, analyzed and interpreted at 0.05 level of significance.

Based on the analysis and interpretation of the data the findings of this study were as follows:

- 1. There is a significant difference between the achievements in mathematics of students from Kaski and Parbat districts.
- 2. There is not a significant difference between the achievement in mathematics of male and female students of grade eight in Kaski districts.
- 3. There is a significant difference between the achievement in mathematics of male and female students of grade eight in Parbat district.
- 4. There is a significant difference between the achievement in mathematics of male students of Kaski and Parbat district.
- 5. There is not a significant difference between the achievement in mathematics of female students of Kaski and Parbat district.
- 6. There is not a significant difference between the achievement in mathematics of the students of rural and urban area of Kaski district.
- 7. There is not a significant difference between the achievement on mathematics of the students of rural and urban area of Parbat district.

- 8. There is a significant difference between the achievements in mathematics of the student of rural area of Kaski and Parbat districts.
- 9. There is not a significant difference between the achievements in mathematics of the students of urban area of Kaski and Parbat districts.

CONTENTS

Topics Pa		Page	No.
Recommendation Letter			
Letter of Acceptance			
Dedi	cation		
Ackı	nowledgements		
Abst	ract		
Cont	rents		
List	of Table		
	CHAPTER- I		
	INTRODUCTION		
1.1	Background of study		1
1.2	Statement of the Problem		7
1.3	Significance of the study		8
1.4	Objectives of the study		9
1.5	Statement of Research Hypothesis		10
1.6	Statistical Hypothesis		11
1.7	Limitation of the study		13
1.8	Definition of the terms		13
	CHAPTER-II		
	REVIEW OF RELATED LITERATURES		14
	CHAPTER-III		
	METHODOLOGY		23

3.1	Population of Study	23
3.2	Sample of the study	23
3.3	Data collection Procedure	24
3.4	Data analysis Procedure	25
	CHAPTER-IV	
	ANALYSIS AND INTERPRETATION	26
4.1	Comparison of Mathematics Achievement Scores of the Studen	ats
	from Kaski and Parbat Districts	26
4.2	Comparison of Students Achievement in Mathematics in Grade	Eight
	Examinations According to Gender and Area in Kaski District	28
	4.2.1 Comparison of Mathematics Achievement Scores of the	Male
	and Female Students in Kaski District	28
	4.2.2 Comparision of Mathematics Achievement Scores of the	
	Students of Rular & Urban Area in Kaski District	30
4.3	Comparision of Students Achievement in Mathematics in Grade	e Eight
	Examination According to Gender & Area in Parbat District.	31
	4.3.1 Comparision of Mathematics Achievement Scores of the	Male
	& Female Students in Parbat Districts.	31
	4.3.2 Comparison of Mathematics Achievement Scores	of the
	Students of Rural & Urban Area in Parbat District.	33
4.4	Companion of Students Achievement in Mathematics in Grade	Eight
	Examinations According to Gender and Area in Kaski and	Parbat
	Districts	35
	4.4.1 Comparison of Mathematics Achievement Scores of th	e Male
	Students of Kaski and Parbat Districts	35

	4.4.2 Comparison of Mathematics Achievement Scorers	of the	
	Female Students of Kaski and Parbat Districts	37	
	4.4.3 Comparison of Mathematics Achievement Scores	of the	
	Students of Rural area of Kaski and Parbat Districts	38	
	4.4.4 Comparison of Mathematics Achievement Score of the		
	Students of Urban Area of Kaski and Parbat Districts	40	
	CHAPTER -V		
S	UMMARY, CONCLUSION AND RECOMMENDATIONS	42	
5.1	Summary with Findings	42	
5.2	Conclusions	44	
5.3	Recommendation for Further Study.	45	
REFE	ERENCES	46	
Appe	ndix A	48	
	Name and Address of School of Kaski and Parbat		
	Districts Selected for Study of Sample.		
Appe	ndix B	49	
	Mathematics Scores of students in District Level		
	Examination of Grade 8 in 2064 from Selected Schools.		
Appe	ndix C	56	
	Statistical Formula Used for Data Analysis.		

LIST OF TABLES

Tab	le No. Title	Page
1.	Achievement Scores of Students from Kaski and Parbat Distri	cts. 27
2.	Description of Significance Test of Mean Score of the Student	ts from
	Kaski and Parbat Districts	27
3	Achievement Scores of Students by Gender	28
	(Male and Female Students of Kaski District)	28
4.	Description of Significance Test of Mean Score	
	of the Student by Gender in Kaski District	29
5.	Achievement Scores of students from Urban and Rural	
	Areas in Kaski District.	30
6.	Description of Significance Test of Mean Score of the	
	Students from Urban and Rural areas in Kaski District	30
7.	Achievement Score of Students by Male and Female	
	Students of Prabat District	32
8.	Description of Significance Test of Mean Score of the	
	Students by Male and Female Students of Parbat District	32
9.	Achievement Score of Student From Urban and Rural Areas	
	in Parbat District.	34
10.	Description of Significance Test of Mean Score of	
	the Student from Urban and Rural Areas in Parbat District	34
11.	Achievement Score of Male Students from Kaski and	
	Parbat District	35
12.	Description of Significance Test of Mean Score	
	of the Male Student From Kaski and Parbat Districts	36
13	Achievement score of Female Student from Kaski and	

	Parbat Districts	37
14.	Description of Significance Test of Mean Scores of the Female	
	Student from Kaski and Parbat District	37
15.	Achievement Score of Students from Rural Area of	
	Kaski and Parbat Districts	39
16.	Description of Significance Test of Mean Scores of the	
	Students from Rural Area of Kaski and Parbat Districts.	39
17.	Achievement Scores of Urban Student from Kaski and	
	Parbat District	40
18.	Description of Significance Test of Mean Score of	
	Urban Area Student from Kaski and Parbat District	41