

**BASIC MATHEMATICAL CONCEPTS PRACTICED**

**BY RAUTE COMMUNITY**

**A**

**THESIS**

**BY**

**JHANKAR BAHADUR BAYAK**

**IN THE PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE**

**DEGREE OF MASTER OF EDUCATION**

**SUBMITTED**

**TO**

**DEPARTMENT OF MATHEMATICS EDUCATION**

**CENTRAL DEPARTMENT OF EDUCATION**

**UNIVERSITY CAMPUS, KIRTIPUR**

**TRIBHUVAN UNIVERSITY**

**KATHMANDU**

**Recommendation for Acceptance**

This is to certify that Mr.JhankarBahadurBayak has completed his M. Ed. thesis entitled '**Basic Mathematical Concept Practiced by Raute Community** ' under my supervision during the period prescribed the rules and regulations of Tribhuvan University, Kirtipur, Kathmandu, Nepal. I recommended and forward his thesis to the Department of Mathematics Education to organize final viva-voce.

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(Mr.KrishnaPrashad Bhatt)

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## Letter of Approval

This thesis entitled '**Basic Mathematical Concept Practiced by Raute Community**' submitted by Mr.JhankarBahadurBayak in partial fulfilment of the requirements for the Master's Degree in Education has been approved.

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### Letter of Certificate

This is to certify that Mr. Jhankar Bahadur Bayak, a student of academic year 2072/073 with Exam Roll Number 7228293, Thesis number 1426 and T.U. registration number 9-2-57-193-2010 has completed this thesis for the period prescribed by the rules and regulations of Tribhuvan University, Nepal. This thesis entitled '**Basic Mathematical Concept Practiced by Raute Community**' has been prepared based on the results of his investigation. I hereby, recommend and forward that his thesis be submitted for the evaluation as the partial requirements to award the degree of Master of Education.

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Assoc. Prof. Laxmi Narayan Yadav

(Head)

Date: Aug ....

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## **Dedication**

Dedicated

To

My respect parents Mr. KhadakBayak, Kala &Hira Devi Bayak, my brothers' Nabraj

Bayak, Divendra Bayak, and my Nephew Mehendra Bayak. Whose inspiration,

encouragement

and support lead me where

I am today

## **Declaration**

This dissertation contains no material which has been accepted for the award of other degree in any institutions. To the best of my knowledge and belief, this thesis contains no material previously published by any authors except due acknowledgement has been made.

.....

**JhankarBahadurBayak**

Date: .....

## Acknowledgement

First of all, I would like to express my sincere thanks to my supervisor Mr. Krishna Parshad Bhatt, Department of Mathematics Education, Tribhuvan University, Kirtipur Kathmandu for his valuable suggestion and encouragement during the completion of this study.

I would like to express my sincere appreciation Assoc. Prof. Laxmi Narayan Yadav, Head Department of Mathematics Information and Communication Education, Kritipur who provided me an opportunity to write this thesis by approving my proposal and all respected teachers Department of Mathematics Education for their valuable suggestion, comments, inspiration and encouragement in improving this thesis. Also I would like to express my thanks to all vice chairman Mis.DipaBcGurause municipality and Raute leadership teacher DhanBahadurBC, Nagendra/Shiba/ Durga/Lal and TopendraOli who provided their valuable and appropriate environment to collected the data of this research.

Finally, I would like to express my gratitude to members of my family for their support and enthusiasm to bring me in this stage of higher education and to complete the thesis.

Aug, 2019

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JhankarBahadurBayak

## Abstract

This study entitled with "**Basic Mathematical Concept Practiced by Raute Community.**" The main objectivities of this study were to explore the indigenous knowledge, activities and objects that are relevant to mathematical concepts. I selected the qualitative research design with ethnography approach. This study was carried out in Gurause municipality- 05 of Dailekha district. Purposive sampling technique was use to select the participants. Eight Raute community people were the sample of this study. I had taken one month for the data collection in the related fields. Participant observation, interview guidelines and photographs were the main tools for this study. The collected data were analysis with the help of different theories. Then it was found that Raute people don't have their own script but have their own language. Raute people have their own name for counting number. Some Raute people used formal way of addition and subtraction but rest were using alternate ways. Raute people solve their addition subtraction multiplication and division.

The volume is measured with different types of pots. The units of volume are mutthi, mana, kuruwa, pathi and muri, geometrical objects that they mostly prefer to construct such as: Katiya, Madhus, Koshi, Para Chakla etc. by the shape of various like circle, conical, circular, rectangle, ellipse and rhombus in Raute community. So, it is concluded that this types of ethno-mathematical practices.

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