

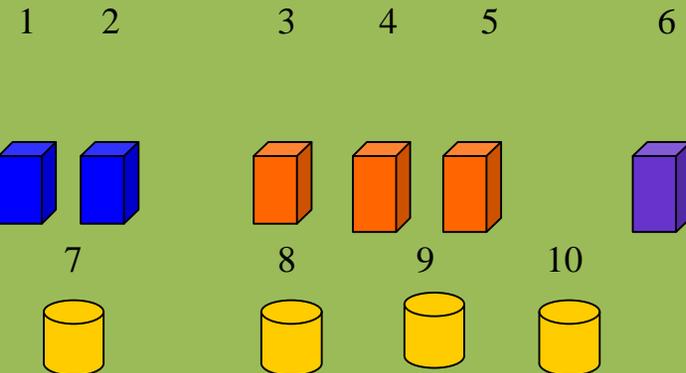
Mathaabu
Îbuku rîa kîraci Kia Mbere

First Edition, 2011
ISBN 9966-00-210-3
Published
By
BTL (E.A.)
P.O Box 44456 Nairobi, Kenya
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First Edition

MATHAABU
KÎRACI KÎA MBERE 1
îbuku rîa Mûrutwa



Mathematics
Book
1
In Tharaka Language

MATHAABU

ÎBUKU RÎA MÛRUTWA WA KÎRACI KÎA
MBERE

Standard

1

Book

Mathematics
In Tharaka Language

Written by: Tharaka MTE panel of Teachers and
Education Officials

Compiled by: Tharaka MTE staff

Edited by: Joseph Mbijiwe & Patrick Kanampiû

Illustrated by: Mûkabi Matî, Joseck Mûtethia, Joseph
Mbijiwe & Mûtiria Cingaû

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(CIDA)**

PREFACE

This STD 1 Mathematics Pupil's Book is written in accordance with Standard One Syllabus. The Book is divided into 5 units. Each unit deals with a major topic. These 5 main topics that this book covers are; *Numbers, Whole Numbers, Addition, Measurements and Geometry*. The topics are divided into sub-topics and the various topics are further sub-divided into lessons.

This book was written to help teachers in Tharaka lower primary schools in teaching Mathematics using Kĩtharaka as a medium of instruction. This is in line with requirement of the Ministry of Education that pupils in lower primary schools learn in the language of the catchment area.

This book and others in this series are culturally relevant to Tharaka children. They are not only written in Kĩtharaka but they use examples familiar to Tharaka people.

This is pupil's book. There is a teacher's guide that has instructions to the teacher on how to disseminate the contents of this pupil's book to the learners.

I would like to appreciate and acknowledge the contribution by various partners in developing this book and others in Kĩtharaka series. Among these are Tharaka MTE Writers Panel, comprising Education Officers-

Mr. Joseph mwenda, Mr. Alex Kanampiu, Mrs. Ann Kieria, Mr. Peter K. Muchiri and Mr. Onesmus Mitambo; Primary School Teachers- Mr. Muthengi Gaichu, Mr. Isaiah Gwatia, Mrs. Grace Ngoci, Mr. Isaiah Rubane, Mr. Gerald Murithi, Mr. Simon Kĩthirĩki, Mr. Moses Kirimi, Mrs. Eunice Mayira, Ms. Tabitha Munda, Mrs. Esther Karauki, Mr. Ginson Miriti, Mrs. Jennifer Makia, Mr. Delfino M. Mwaria, Mr. Zaverio M.Rugia and Mr. Stephen K. Murea; BTL Tharaka staff, Tharaka South and Tharaka North District Education Officials, our funding partners, Bible Translation & Literacy (E.A.) and our other various partners.

I most sincerely thank all those who took part and gave all manner of support in the development of this book.

God bless you all.

Onesmus Kamwara
BTL Tharaka Project Leader

KĪMENYITHIA

Ībuku rĭrĭ rĭa Mathaabu rĭa Kĭraci Kĭa Mbere rĭandĭkĭtwe rĭkĭthiingatagĭra sĭra-basi ya Kĭraci kĭa Mbere. Rĭgaũkanĭtue icuncĭ 5. Na wa kĭra gĭcuncĭ kĭrĭ na kĭthoomo gĭakĭo. Ithoomo bira birĭ ĩbukuuni rĭrĭ i; **Naamba, Naamba Ciũyũri, Kũriinganĭra, Kũthima na Mĭcooro.** Ithoomo bibi ibigaũkanĭtue biauma reeconi inyingĭ.

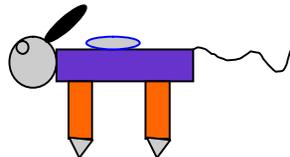
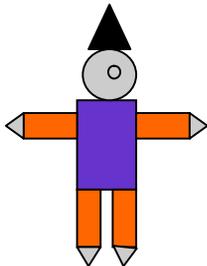
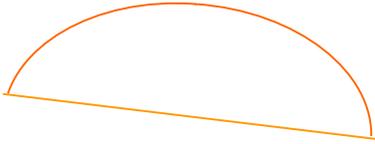
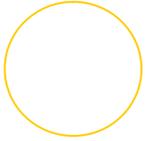
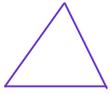
Ībuku rĭrĭ rĭandĭkirwe rĭa gũteetheeria aarimũ ba iraci bia mwambũrĭo bia cukuru cia Tharaka kũrutana bagũtũmagĭra rwaria rwa Kĭĩtharaka. Ūgu i kũriingana na watho bwa rwong'i rwa Kĭthoomo atĭ aana ba iraci bia mwambũrĭo babatũrue barutanwa na rwaria rũra rwaragua n'antũ ba bantũ agu cukuru ĩrĭ. Ībuku rĭrĭ na mara mangĭ marĭ mũbangooni ũyũ ma Kĭĩtharaka maandĭkĭtwe bũra mwana wa Tharaka aũmba kũmeerewa bwega mũno. Maandĭkĭtwe na rwaria rwa Kĭĩtharaka na magũtũmagĭra ngerekano ira antũ ba Tharaka bamenyanĭrĭtie nacio.

Rĭrĭ n'ĭbuku rĭa mũrutwa. Kũrĭ na ĩbuku rĭa mwarimũ rĭra rĭrĭ na mataaro kĭrĭ mwarimũ ma kũmwonia bũra aũmba kũrutana mantũ mara marĭ ĩbukuuni rĭrĭ . Ingũcookeria antũ bara bateetheereetie kwandĭka ĩbuku rĭrĭ na Mabuku mara mangĭ ma mũbango ũyũ wa Kĭĩtharaka. Nabo i bo; Gĭkundi kĭa aandĭki ba Kĭĩtharaka, nabo n'amwe na, anene ba kĭthoomo- Mr. Joseph Mwenda, Mr. Alex Kanampiu, Mrs. Ann Kieria, Mr. Peter K. Muchiri na Mr. Onesmus Mitambo; aarimũ- Mr. Muthengi Gaichu, Mr. Isaiah Gwatia, Mrs. Grace Ngoci, Mr. Isaiah Rubane, Mr. Gerald Murithi, Mr. Simon Kithiriki, Mr. Moses Kirimi, Mrs. Eunice Mayira, Ms. Tabitha Munda, Mrs. Esther Karauki, Mr. Ginson Miriti, Mrs. Jennifer Makia, Mr. Delfino M. Mwaria, Mr. Zaverio M. Rugia na Mr. Stephen K. Murea; aruti ngũgĭ ba BTL Tharaka, anene ba kĭthoomo ndeeni ya Tharaka South na Tharaka North Districts, antũ bara bateethagĭrĭa na mbia, BTL na bangĭ baingĭ.

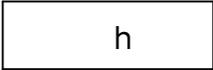
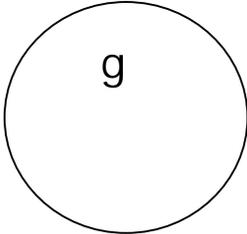
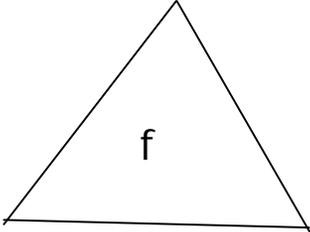
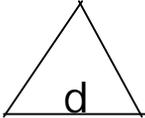
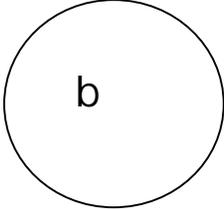
Ingũcookeria antũ bonthe bara bateetheereetie wandĭkĭ bwa ĩbuku rĭrĭ nkatho inyingĭ mũno.

Ngai abũthaarime bwinthe,

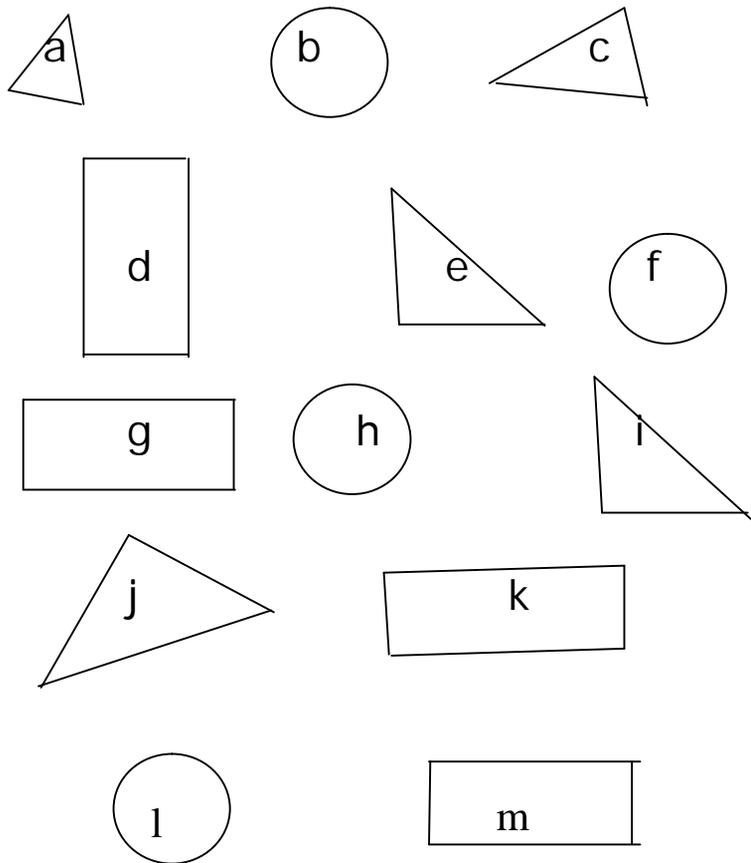
Onesmus Kamwara
BTL Tharaka Project Leader



FOREWORD



Gweta mariitwa ma mbica ino.



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2. I mîcooro îgana îrî na koonna ithatû?
3. I mîraba îmîraaya îgana ûkwoona?

GÎCUNCÎ KÎA MBERE: Naamba.

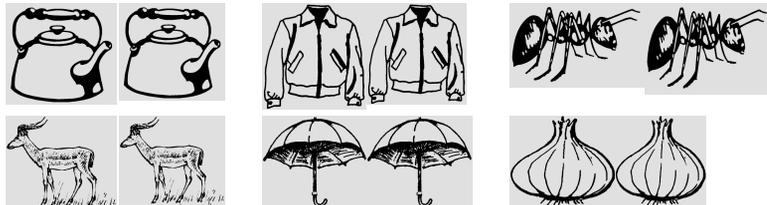
KÎONGO GÎA KÎTHOOMO: Kwîthuurânîra
gûtara.

(A) Gûtaarûkania na kûbaangania

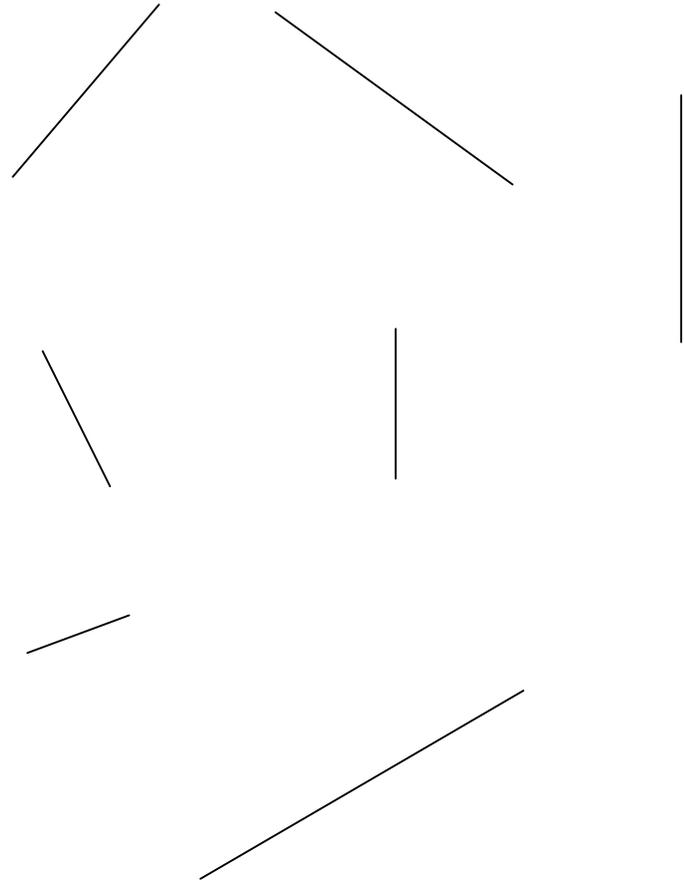
Into bibi ibiîngîreene. Ti bitaarûkanie
bibaanganua bira bibuaneene biaigwa
amwe.



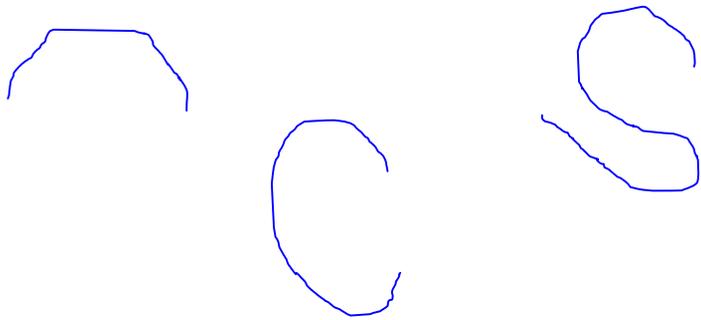
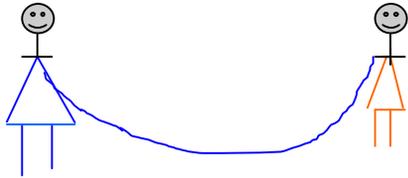
Into bibi ibitaarûkanie, bira bibuaneene bi-
agaigwa bantû amwe.



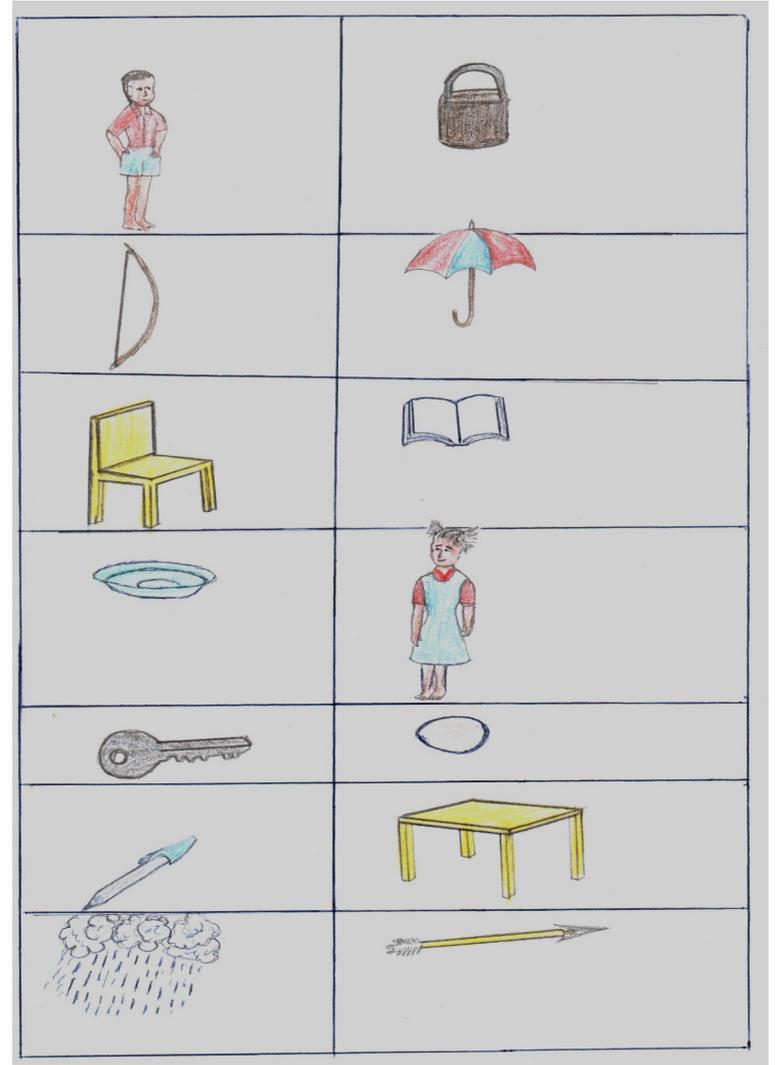
C. Mîcitaarî îrûûngi



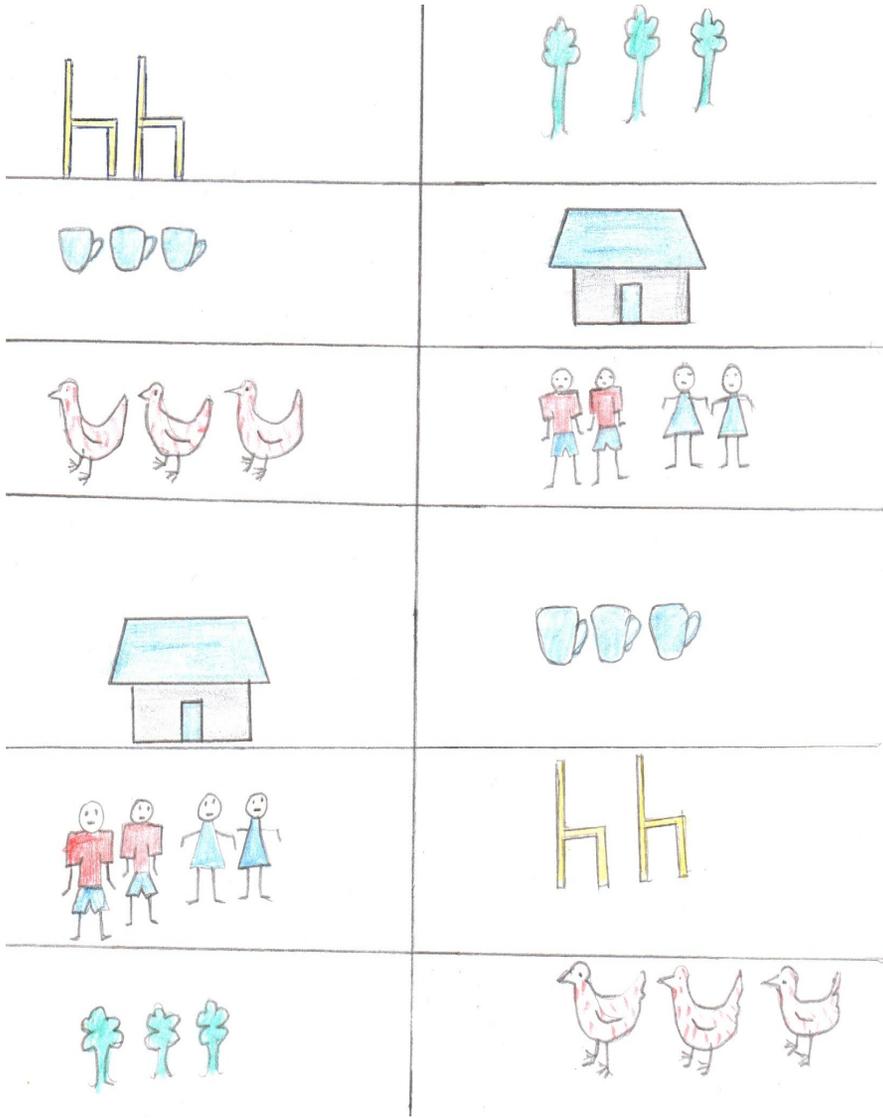
B. Micitaarî ikoombi.



(B) Kûringithania mbica



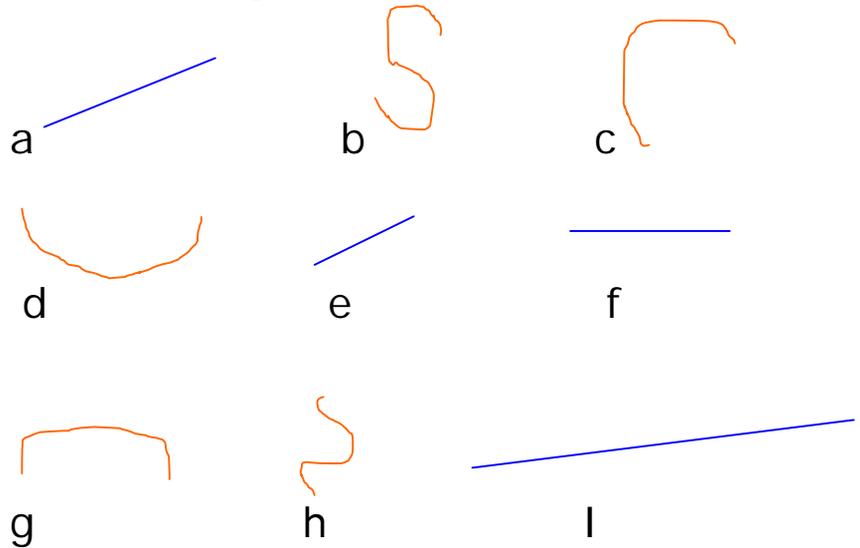
(C) Kûbuanaania mbica



GÎCUNCÎ KÎA BITAANO.

KÎONGO GÎA KÎTHOOMO: Mathaabu ma Mîcooro.

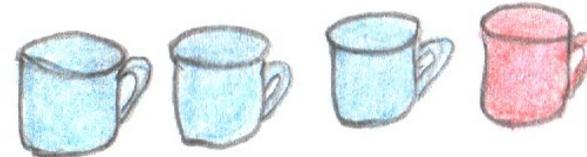
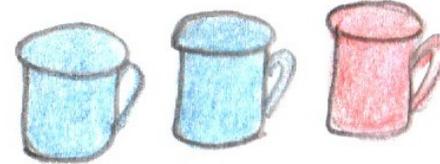
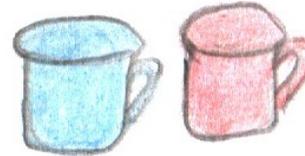
**A. Mîcitaarî îrûngi na îkoombi.
Raitha bwega woone**



1. Gweta mîcitaarî îra îrûngi
2. Gweta mîcitaarî îra îkoombi



(D) Ni kwingia na imwe



Arutwa baumiite cukuru

Mûrutwa

akinyua caai

G. Ntugû cia kiumia

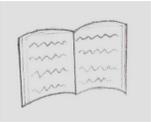
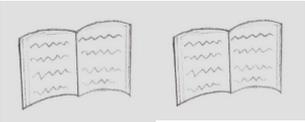
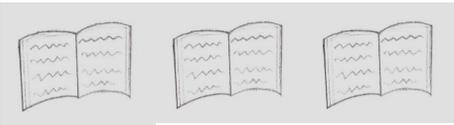
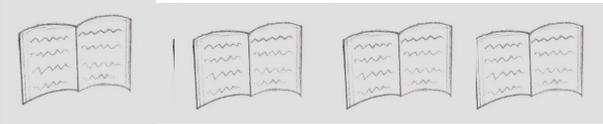
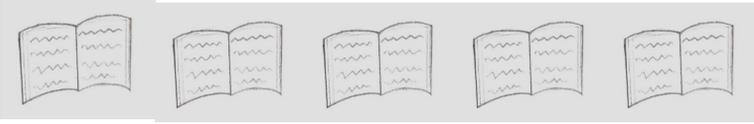
Kiumia i gîa ntugû mûgwanja.

1. Ya mbere yîitawa ntugû ya ncuma pili
2. ya ciiri yîitawa ntugû ya ncuma tatû
3. ya inya yîitawa ncuma inne
4. ya itaano yîitawa Aramici
5. ya ithanthatû yîitawa ncumaa
6. ya mûgwanja yîitawa ncumamosi.

Wîra ya kûruta.

1. I ntugû îrikû tûcuuragia bendeera cukuru?
2. Thoko ya kwenu n'ya ntugû îrikû?
3. Gweta ntugû îra ûthiyaga kanicaani

(C) Ni kûnyiaa na ïmwe



mûrutwa agîûkîira gîtandaani



mûrutwa akîthaamba meetho



Arutwa bagícanûra ntuundu



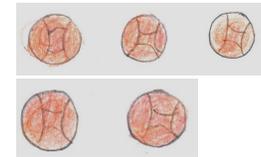
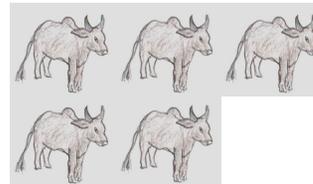
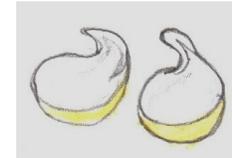
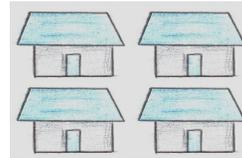
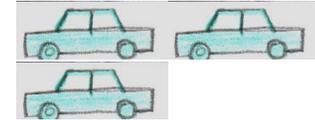
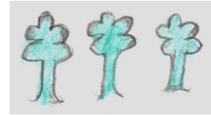
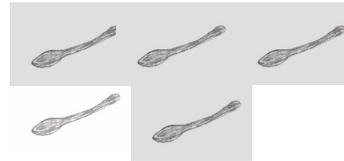
Riûa rîkiûma



Kwanîka nguo



(F) I kûnyiaa, i kwingîa, na iganeene



GÎCUNCÎ KÎA BIÎRÎ: Naamba ciûyûri

KÎONGO GÎA KÎTHOOMO: Gûtara

Kwambiïria

Gûtara i njîra ya kûmenya mûgana wa gîntû.

Twambagîiria gûtara kuuma îmwê mwanka îkûmi.

A) Gûtara



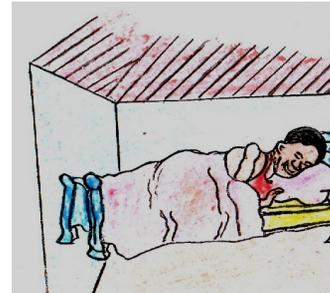
gîcanûri- 10/= karamu- 6/= nderemeende

I mbica igana cia into bibi ?

- (i) Îkome na nderemende
- (ii) Nderemende na gîcanûri
- (iii) Magati maîrî
- (iv) Îbuku na magati maîrî
- (v) Mabuku maîrî.

F. Mathaa.

I thaa igana?



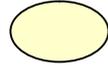
mûrutwa amaami
ûtugû



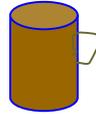
arutwa bagîkinya
cukuru



îbuku - 30/=



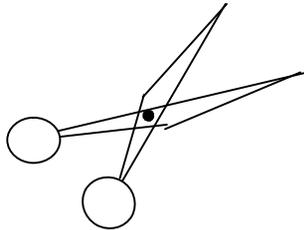
îkome = 5



gîkombe- 12/=

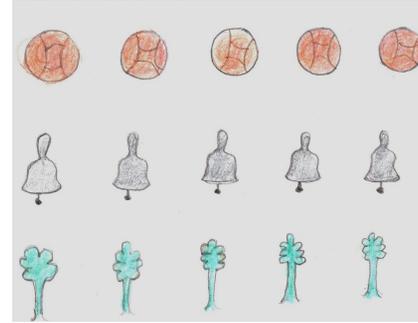


cûûria-50/=



Magaci- 40

tara itaano



B) Gûtara îmwẽ mwanka mîrongo kenda na kenda

Andîka îmwẽ mwanka kenda na mîgambo

Namba	Mîgaambo
1	
2	
3	
4	
5	
6	
7	
8	
9	

(C) Thooma, bangania na wandike imwe mwanka miroongo kenda na kenda

1 2 3 4 6 7 8 9 10 11 12 13
14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42
43 44 45 46 47 48 49 50 51 52 53
54 55 56 57 58 59 60 61 62 63
64 65 66 67 68 69 70 71 72
73 74 75 76 77 78 79 80 81 82
83 84 85 86 87 88 89 90 91
92 93 94 95 96 97 98 99

I gikabû kîrikû kîrito nkûrûki ya kîra kîngî?

C. Mûthûumba

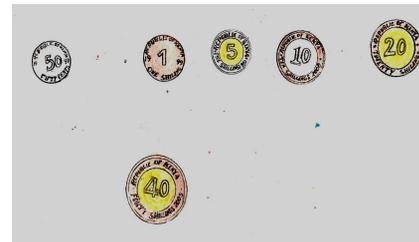


I gikombe kîrikû ikombe bibi
gîkethîrwa kîrî na rûûyî rwingî birî na
rûûyî rûganeene

Ûntû bwa kûrûtha

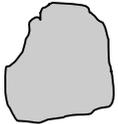
Arutwa batûmîre into mwanya mwanya kûthima:
rûûyî, mûthanga, mûthetu.

D. Mbia cia mûthere. Menya mbia ciaku.



B. Ūrito

Into bitiganeenie ūrito
 Kūrî bio birito nkūrûki ya bira biingî
 Raitha into bibi guuge kîra kîrito nkūrûki ya
 kîra kîingî.



yiiga



karamu ka mata



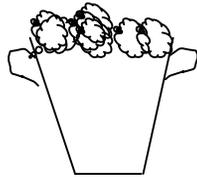
îbuku rîa mwandîko



îbuku rîa mûtambo

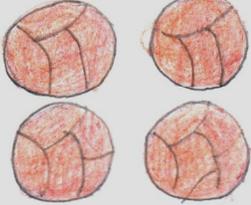
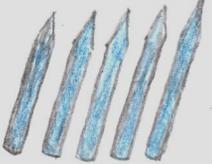


gîkabû kîûyûri
mûthetu



gîkabû kîûyûri
marataati

(D) Thooma na wandike

	1		
	2		
	3		
	4		
	5		

(E) Ara namba îrî

Rîra tûgûtara kûrî na namba ira îrûga-

magîira na ira ciingî matigari. Rîra namba irî

ciîrî irî amwe ta

13, 27, 51, namba îra îrî Rûteere rwa ûrîo

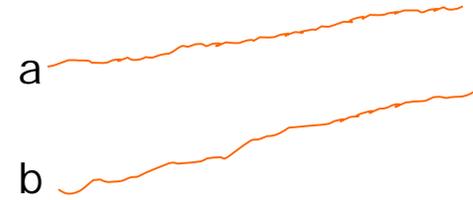
îrûgamagîra **matigari**. Îra îrî rûteere rwa

ûmotho n'yo îrûgamagîra **Makûmi**.

Ngerekano

13 - I thatû irûgamîrîte **matigari**.

- Îmwe îrûgamîrîte **makûmi**.



Kamûtî ka mbere i kaganeene na kamûtî ga twîrî

Ûntû bwa kûrûtha

-Arutwa batûmîre njara ciao kûthima îbuku rîa mathaabu.

-bathime ûraaya bwa ndeciki ciao bagîtûmagîra biara.

bathime waariî kana ûraaya bwa kîraci bagîtûmagîra magûrû.

-bacooke bathime bagîtambagia magûrû.

-bathime bagîtûmagîra rûrigi.

-bathime bagîtûmagîra kamûtî.

GÎCUNCÎ KÎA BINA: Kûthima.

KÎONGO GIA KÎTHOOMO: Kûringithania/
Kûganaania ûraaya.

A. Ûraaya.



(i) I kamûtî karîkû karaaya ?

(ii) I kamûtî karîkû gakubî ?



I kabau karîkû karaaya ?

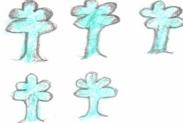
I kabau karîkû gakubî ?

Ngûgî ya kûruta

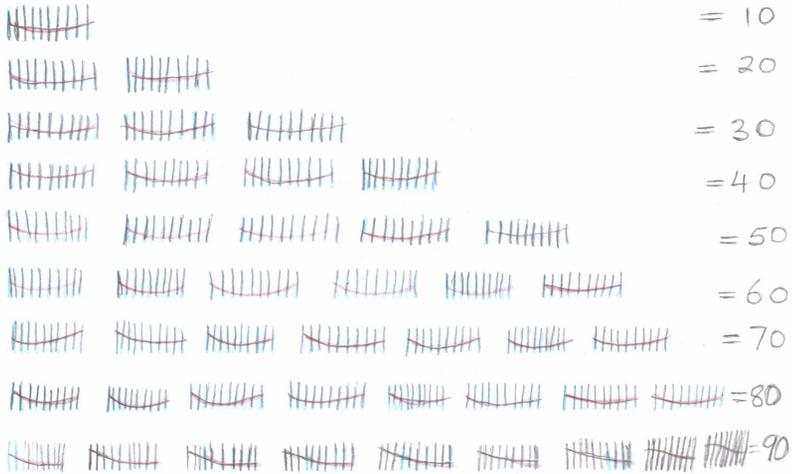
Onania matigari na makûmi nambaani ino;

11, 16, 25 ,90, 99

TARA NA WANDÎKE NAMBA

	=
	=
	=
	=
	=

GÛTARA NA KÛBANGANIA MAKÛMI KUUMA ÎKÛMI MWANKA MÎRONGO



$$9 - 5 =$$

$$8 - 7 =$$

$$9 - 5 =$$

$$18 - 7 =$$

$$29 - 5 =$$

$$28 - 7 =$$

$$39 - 5 =$$

$$38 - 7 =$$

$$49 - 5 =$$

$$48 - 7 =$$

Coora mataane ma mathaabu mama.

$25 - 2 = 23$

$22 - 1 = 21$

$35 - 2 = 33$

$32 - 1 = 31$

$45 - 2 = 43$

$42 - 1 = 41$

Wira ya biuria:

$2 - 2 =$

$5 - 3 =$

$12 - 2 =$

$15 - 3 =$

$22 - 2 =$

$25 - 3 =$

$32 - 2 =$

$35 - 3 =$

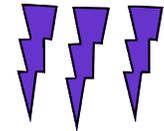
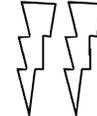
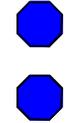
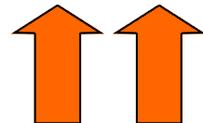
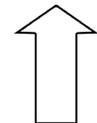
$42 - 2 =$

$45 - 3 =$

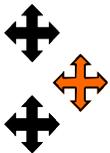
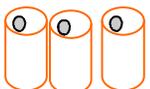
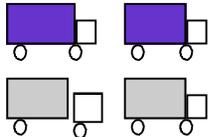
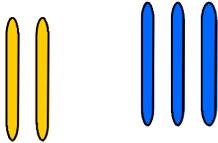
GÎCUNCÎ KÎA BITHATÛ

KÎONGO GÎA KÎTHOOMO: Kûringanîra

(A) Kûreeta ira ngemie na ira itarî ngemie amwe na kûriinganîra

(B) Kûreeta amwe na kûriinganîra

 $2 + 1 = \square$	 $\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$
 $1 + 1 = \square$	 $\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$
 $1 + 1 = \square$	 $\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$
 $2 + 2 = \square$	 $\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$
 $2 + 3 = \square$	 $\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$

$1 + 1 = \quad 4 + 4 = \quad 6 + 3 =$

$11 + 1 = \quad 14 + 4 = \quad 16 + 3 =$

$21 + 1 = \quad 24 + 4 = \quad 26 + 3 =$

$31 + 1 = \quad 34 + 4 = \quad 36 + 3 =$

$41 + 1 = \quad 44 + 4 = \quad 46 + 3 =$

Mataane ma namba cia kûruta.

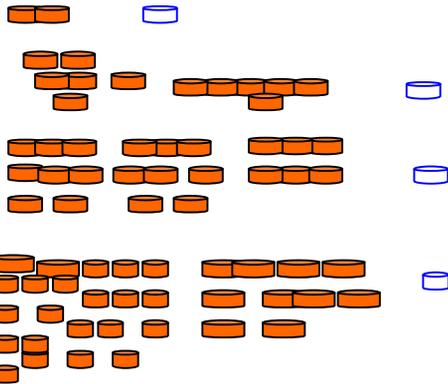
- 

$$5 - 2 = 3$$
- 

$$15 - 2 = 13$$
- 

$$12 - 1 = 11$$

Mataane ma namba cia kûringanîra na kûruta



$$2 + 1 = 3$$

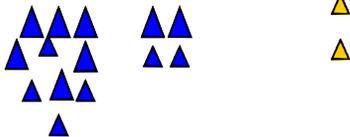
$$12 + 1 = 13$$

$$22 + 1 =$$

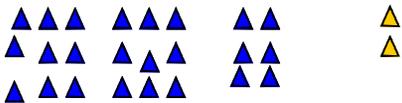
$$32 + 1 =$$



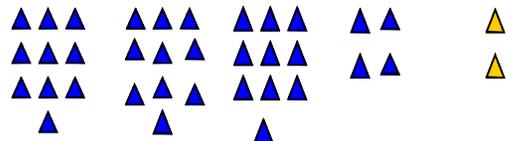
$$4 + 2 =$$



$$14 + 2 =$$



$$24 + 2 =$$



$$34 + 2 =$$

C. Kûringanîra mathaabu makeranîitie na marûungi.

Ringanîra ikeranîitie

$$2 + 1 = \quad 1 + 3 =$$

$$1 + 2 = \quad 3 + 2 =$$

$$1 + 1 = \quad 2 + 3 =$$

$$2 + 2 = \quad 4 + 1 =$$

$$1 + 1 = \quad 1 + 4 =$$

Ringanîra ciîndami

3	2	4	1
<u>+1</u>	<u>+1</u>	<u>+1</u>	<u>+4</u>
——	——	——	——

$$\begin{array}{r} 1 \\ +2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ +2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +1 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ +2 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +3 \\ \hline \end{array}$$

**Koobia na ûthimithanie namba ira
ibuaneene irî ngarûranie**

$1 + 3 =$	$2 + 2 =$
$4 + 1 =$	$1 + 2 =$
$2 + 2 =$	$3 + 1 =$
$1 + 1 =$	$3 + 2 =$
$2 + 1 =$	$1 + 4 =$
$2 + 3 =$	$1 + 1 =$

$$2 + 1 = 3 - 2 = 6 + 3 = 9 - 6 =$$

$$1 + 2 = 3 - 1 = 3 + 6 = 9 - 3 =$$

$$1 + 3 = 4 - 1 = 7 + 1 = 8 - 1 =$$

$$3 + 1 = 4 - 3 = 7 + 2 = 8 - 7 =$$

$$3 + 2 = 5 - 3 = 4 + 3 = 7 - 4 =$$

$$2 + 3 = 5 - 2 = 3 + 4 =$$

$$\begin{array}{r} 2 \\ +5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ +2 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -3 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +8 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ +1 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -1 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ -4 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ -3 \\ \hline \end{array}$$

$90 - 10 =$

$20 - 10 =$

$30 - 10 =$

$60 - 50 =$

$70 - 20 =$

$40 - 10 =$

$$\begin{array}{r} 30 \\ -10 \\ \hline \end{array} \quad \begin{array}{r} 80 \\ -30 \\ \hline \end{array} \quad \begin{array}{r} 70 \\ -30 \\ \hline \end{array} \quad \begin{array}{r} 30 \\ -30 \\ \hline \end{array} \quad \begin{array}{r} 80 \\ -70 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ -40 \\ \hline \end{array} \quad \begin{array}{r} 70 \\ -50 \\ \hline \end{array} \quad \begin{array}{r} 90 \\ -80 \\ \hline \end{array} \quad \begin{array}{r} 70 \\ -40 \\ \hline \end{array} \quad \begin{array}{r} 90 \\ -20 \\ \hline \end{array}$$

Ngwatanîro ya kûringanîra na kûruta.

Wa rîra îthaabu rîa kûringanîra rîrî na mathaabu maîrî ma kûruta.

Ngerekano:

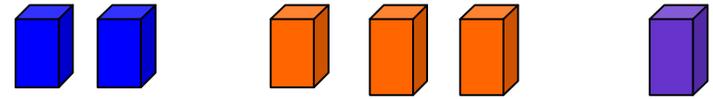
$5 + 3 = 8$

$8 - 3 = 5$

E. Kûringanîra namba ithatû irî îmwê îmwê

Nwa tûringanîre namba inu ikeranîtie kana ciîndami

Riinganîra ikeranîtie



$2 + 3 + 1 = 6$

$2 + 2 + 2 =$

$1 + 2 + 3 =$

$3 + 3 + 3 =$

$4 + 4 + 1 =$

$3 + 2 + 1 =$

$3 + 4 + 1 =$

$6 + 0 + 3 =$

$5 + 0 + 4 =$

$7 + 1 + 1 =$

$4 + 3 + 0 =$

$6 + 2 + 1 =$

$3 + 4 + 1 =$

Ringanîra ciîndamite

$$\begin{array}{r} 6 \\ 2 \\ +0 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ 4 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ 2 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ 5 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 2 \\ +3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ 0 \\ +1 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 1 \\ +1 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ 3 \\ +2 \\ \hline \end{array}$$

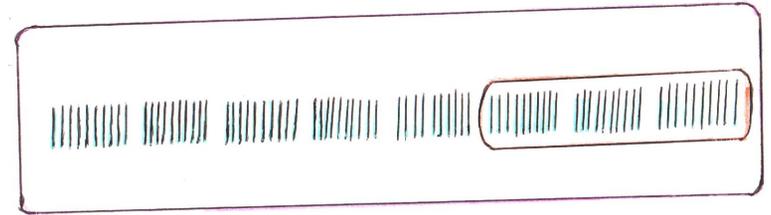
F. Kûringanîra namba ciîrî îcookio rîtagûkûrûka mîrongo kenda na kenda ûtagûkamata.

Ringanîra namba ciîrî na namba îmwê ûtagûkamata.

$$34 - 3 = \quad 99 - 7 = \quad 66 - 4 = \quad 84 - 4 =$$

$$58 - 3 = \quad 69 - 1 =$$

L. Kûrutithania mîthûmba ya îkûmi Ngerekano:



$$80 - 30 = 50$$

$$\begin{array}{r} 80 \\ - 30 \\ \hline 50 \end{array}$$

Rutithania:

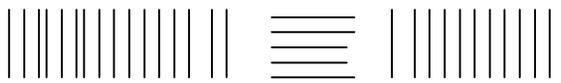
$$30 - 20 = \quad 80 - 60 =$$

$$50 - 30 = \quad 80 - 10 =$$

$$\begin{array}{r} 13 \\ - 3 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ - 7 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

K. Kûrutithania namba îmwê kuuma kîrî namba ciîrî ûtakûroomba.

Ngerekano



16 — 5 = 11

$$\begin{array}{r} 24 \\ - 1 \\ \hline \end{array} \quad \begin{array}{r} 48 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 34 \\ - 2 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ - 4 \\ \hline \end{array} \quad \begin{array}{r} 44 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ - 1 \\ \hline \end{array} \quad \begin{array}{r} 61 \\ - 0 \\ \hline \end{array} \quad \begin{array}{r} 72 \\ - 1 \\ \hline \end{array} \quad \begin{array}{r} 79 \\ - 7 \\ \hline \end{array} \quad \begin{array}{r} 95 \\ - 2 \\ \hline \end{array}$$

$$27 - 2 = 78 - 3 = 47 - 6 = 87 - 2 =$$

Ngerekano:

20	7
+ 4	+ 80
24	87

$$\begin{array}{r} 10 \\ + 7 \\ \hline \end{array} \quad \begin{array}{r} 450 \\ + 40 \\ \hline \end{array} \quad \begin{array}{r} 50 \\ + 6 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ + 62 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ + 8 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ + 80 \\ \hline \end{array} \quad \begin{array}{r} 40 \\ + 3 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$$

G. Ringanîra namba ciîrî ciîrî ûtagûkamata.

Ngerekano:

50	42
+ 27	+ 10
77	52

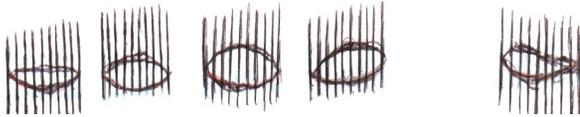
$$\begin{array}{r} 1\ 2 \\ +1\ 5 \\ \hline \end{array} \quad \begin{array}{r} 1\ 2 \\ +3\ 1 \\ \hline \end{array} \quad \begin{array}{r} 1\ 3 \\ +2\ 3 \\ \hline \end{array} \quad \begin{array}{r} 3\ 2 \\ +2\ 3 \\ \hline \end{array} \quad \begin{array}{r} 4\ 3 \\ +3\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4\ 5 \\ +5\ 4 \\ \hline \end{array} \quad \begin{array}{r} 6\ 6 \\ +2\ 4 \\ \hline \end{array} \quad \begin{array}{r} 4\ 4 \\ +5\ 5 \\ \hline \end{array} \quad \begin{array}{r} 6\ 0 \\ +2\ 7 \\ \hline \end{array} \quad \begin{array}{r} 4\ 7 \\ +5\ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3\ 5 \\ +3\ 0 \\ \hline \end{array} \quad \begin{array}{r} 4\ 2 \\ +1\ 1 \\ \hline \end{array} \quad \begin{array}{r} 5\ 2 \\ +1\ 0 \\ \hline \end{array} \quad \begin{array}{r} 3\ 5 \\ +4\ 0 \\ \hline \end{array}$$

H. Kûringanîra mîthûûmba ya îkûmi îtagûkûrûka mîrongo keenda .

Ngerekano:



$$40 + 10 = 50$$

$$\begin{array}{r} 20 + 50 = 20 \\ 20 + 40 = +10 \\ 70 + 20 = \end{array} \quad \begin{array}{r} 40 \\ +30 \\ \hline \end{array} \quad \begin{array}{r} 50 \\ +20 \\ \hline \end{array}$$

$$5 - 1 = \quad 4 - 1 = \quad 3 - 1 = \quad 2 - 1 =$$

J. Kûrutania namba îmwe kuuma kîrî namba ciîrî mûrutithanîrie wa namba cia mbere.

Ngerekano.

$\begin{array}{r} 1\ 5 \\ -\ 8 \\ \hline 7 \end{array}$	
$14 - 9 = 5$	

Rutithania.

$$12 - 3 = \quad 13 - 5 = \quad 12 - 5 = \quad 16 - 7 =$$

$$16 - 8 = \quad 16 - 9 = \quad 12 - 6 = \quad 14 - 5 =$$

$$\begin{array}{r} 1\ 4 \\ -\ 9 \\ \hline \end{array} \quad \begin{array}{r} 1\ 6 \\ -\ 7 \\ \hline \end{array} \quad \begin{array}{r} 1\ 5 \\ -\ 9 \\ \hline \end{array} \quad \begin{array}{r} 1\ 8 \\ -\ 9 \\ \hline \end{array} \quad \begin{array}{r} 1\ 0 \\ -\ 2 \\ \hline \end{array}$$

Ruta:

5 - 3 = 5 - 4 = 3 - 1 = 4 - 2 =

2 - 1 = 4 - 1 = 3 - 2 = 5 - 2 =

5 - 1 = 4 - 3 =

I mbi igûtigara?



5 - 2 = 3

Ruta:

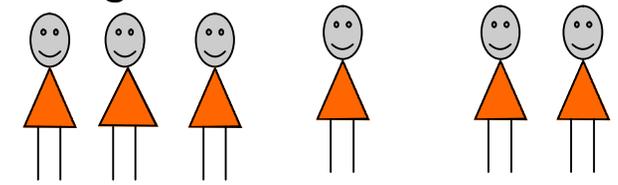
2 - 1, 3 - 1, 4 - 3, 5 - 4, 4 - 2

30 + 20 = 50, 10 + 70 = 80

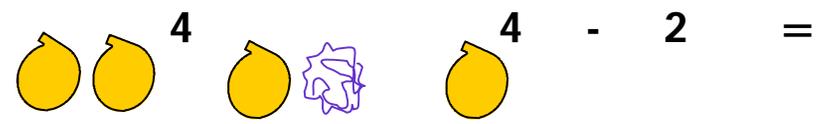
I. Kûrutithania na kwaiga mwanja.

I mbi igûtigara?

Ngerekano.



3 - 1 = 2



4 - 2 = 2