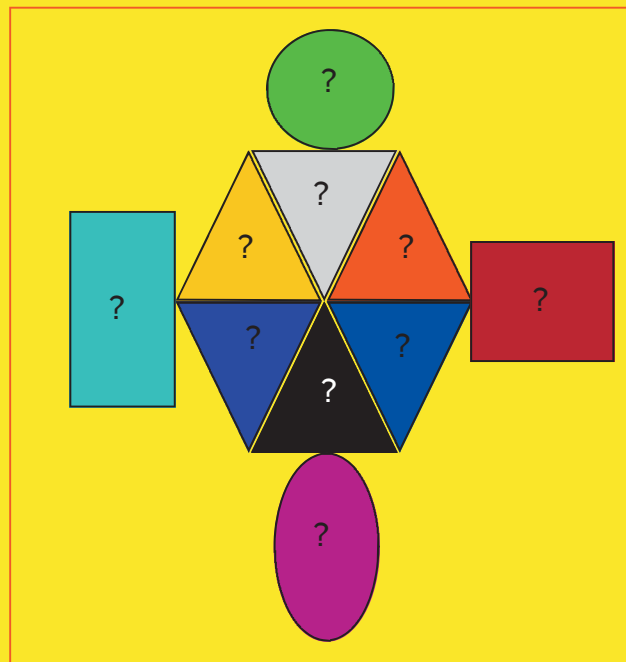




MATHAABU

KÎRACI KÎA BITHATÛ

Îbuku rîa Mûrutwa



Mathematics
in Tharaka language

MATHAABU

ÎBUKU RÎA MÛRUTWA RÎA
KÎRACI KÎA BITHATÛ

Standard
3
Pupil's book

Mathematics
in Tharaka Language

Written by: Tharaka MTE Writers' panel

Technical Assistant : Susan Nyaga

Compiled by: Tharaka MTE staff

Edited by: Joseph Mbijiwe & Patrick Kanampiu

Illustrated by: Mukabi Mati, Joseck Mutethia,
Joseph Mbijiwe & Mutiria Cingau

Cover Designed by: Joseph Mbijiwe

Layout Assistant: Janet Sweet

First Edition, 2012
ISBN: 9966-00-212-X

Published by
Bible Translation & Literacy (E. A.)
P.O. Box 44456 Nairobi, Kenya
© BTL, 2012

Funded by:



PREFACE

This Standard 3 Mathematics Pupil's Book is written in accordance with the Standard Three Syllabus by the Kenya Institute of Education (KIE). The Book is divided into 10 units. Each unit deals with a major topic. These 10 main topics that this book covers are: ***Whole Numbers, Fractions, Operations, Subtraction and Addition of Fractions, Measurements, Weight, Capacity, Money, Time 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 Kĩitharaka as a medium of instruction. This is in line with the 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 Kĩitharaka but they also use examples familiar to Tharaka children.

This is the 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 Kĩitharaka series. Among these are the 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. Mũthengi Gaichu, Mr. Isaiah Gwatia, Mrs. Grace Ngoci, Mr. Isaiah Rubane, Mr. Gerald Murithi, Mr. Simon Kithiriki, Mr. Moses Kiriimi, 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

KÎMENYITHIA

Îbuku rîrî rîa Mathaabu rîa Kîraci Kîa Bithatû rîandîkîitwe rîkîthiingatagîra sîrabasi ya Kîraci kîa Bithatû ya 'Kenya Institute of Education' (KIE). Rîgaûkanîitue icuncî ikûmi. Na wa kîra gîcuncî kîrî na kîthoomo gîakîo. Ithoomo bira birî îbukuuni rîrî i: ***Namba Ciûyûrî, Icuncî, Kûgaîra kûriinganîra kûrutithania na kuuga maita, Kûrutithania na kûriinganîra Icuncî, Kûthima, Ûrito, Mûthûûmba, Mbia, Thaa na Mîcooro***. Ithoomo bibi ibigaûkanîitue biauma reeconî inyîingî.

Îbuku rîrî rîandîkirwe rîa gûteetheeria aarimû ba iraci bia mwambîirio bia cukuru cia Tharaka kûrutana bagîtûmagîra rwaria rwa Kîitharaka. Ûgu i kûriingana na watho bwa rwong'i rwa Kîthoomo atî aana ba iraci bia mwambîirio bibatîirua birutanwa na rwaria rûra rwaragua n'antû ba bantû agu cukuru îrî.

Îbuku rîrî na mara mangî marî mûbangooni ûyû ma Kîitharaka maandîkîitwe bûra mwana wa Tharaka aûmba kûmeerewa bwega mûno. Maandîkîitwe na rwaria rwa Kîitharaka na magîtûmagîra ngerekano cia mantû mara antû ba Tharaka bamenyanîrîtie namo.

Rîrî n'îbuku rîa mûrutwa. Kûrî na îbuku rîa mwarimû rîra rîrî na mataaro kîrî mwarimû ma kûmwonia bûra aûmba kûrutana mantû mara marî îbukuuni rîrî.

Ingûcookia nkaatho kîrî antû bara bateetheereetie kwandîka îbuku rîrî na Mabuku mara mangî ma mûbango ûyû wa Kîitharaka. Nabo i bo Gîkundi kîa aandîki ba Kîitharaka, nabo n'amwe na:

anene ba kîthoomo - Mr. Joseph Mwenda, Mr. Alex Kanampiu Mrs. Ann Kieria, Mr. Peter K. Muchiri na Mr. Onesmus Mitambo;

aarimû - 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 na Mr. Delfino M. Mwaria, Mr. Zaverio M. Rugia na Mr. Stephen K. Murea;

aruti ngûgî ba BTL Tharaka, anene ba kîthoomo ndeeni ya dicitirîti ya Tharaka ya neegûrû na ya naiti, antû bara bateethagîirîa na mbia, BTL na bangî baingî. Ingûcookeria antû bonthe bara bateetheereetie na njîra mwanya mwanya, wandikî bwa îbuku rîrî nkatho inyîingî mûno.

Ngai abûthaarime bwinthe,

Onesmus Kamwara

BTL Tharaka Project Leader

FOREWORD

For the last ten years Bible Translation and Literacy (BTL) has partnered with the Government of Kenya in implementing Mother Tongue Education (MTE) in schools among the Tharaka community.

This Standard 3 Mathematics pupil's book in Kĩĩtharaka was developed by teachers, education officials from the Tharaka programme area and BTL staff and Consultants. Earlier, before the production of the books in this series, BTL worked with the community whose language was previously unwritten to develop and produce a functionally and acceptable orthography (writing system).

It is my hope that this book will lay a strong foundation to enable Tharaka children to learn numbering and numeracy skills. It is my desire to see that these books will become a stepping stone to the greater success and performance in the children's future learning process. The use of Mother Tongue in teaching and learning in schools has proved to enable learners to easily take their first steps in learning how to read, write and do basic numbering and arithmetic.

I believe that good quality learning is not only aimed at enabling the learners to be competent, productive and successful in their exams; but also at encouraging diversity and developing a generation of citizens who are proud of and well rooted in their cultural and traditional heritage.

I recognize and applaud the healthy partnerships that BTL has had with the Ministry of Education as represented by the Education Officials and the teachers. On behalf of BTL, I take this opportunity to thank all our partners for having tirelessly and selflessly contributed to the development, editing and production of this student book. I hope this contribution will go a long way to improve the quality of life through cultural and socio-economic development.

Rev. Peter Munguti
General Secretary,
Bible Translation and Literacy (BTL)
February 2012

MARA MARÎ KU

GÎCUNCÎ KÎA MBERE: Namba.....	1
GÎCUNCÎ KÎA BIÎRÎ: Tûcuncî	
Gacuncî ga gîntû Kîûyûru.....	13
GÎCUNCÎ KÎA BITHATÛ: Mbano	20
GÎCUNCÎ KÎA BINA: Tûcuncî	
Kûringanîra na kûruta tûcuncî	44
GÎCUNCÎ KÎA BITAANO: Kûthima	50
GÎCUNCÎ KÎA BITHANTHATÛ: Ûrito	55
GÎCUNCÎ KÎA MÛGWANJA: Mûthûûmba	57
GÎCUNCÎ KÎA BINANA: Mbia	59
GÎCUNCÎ GÎA KEENDA: Thaa.....	97
GÎCUNCÎ GÎA ÎKÛMI: Mathaabu ma mîcooro	108

1 Namba

KÎONGO GÎA KÎTHOOMO: **Namba i mbûyûru**

A. Kûbaangania na kûûyûrîria.

1. Bangania kuuma îra niini kûthi îra nene.

- a) 5, 2, 9, 12, 8, 20, 17, 6, 3
- b) 17, 13, 29, 11, 35, 23, 40, 22, 48
- c) 4, 13, 25, 1, 7, 9, 18, 22, 10
- d) 30, 10, 40, 20, 60, 50, 80, 90, 70

2. Bangania kuuma îra nene kûthi îra niini.

- a) 120, 280, 330, 150, 130
- b) 65, 132, 166, 33, 45
- c) 77, 38, 55, 23, 91

3. Ûyûrîria namba ira ciûrîite.

- a) 10, 20, __, __, __, __, 70, __, __.
- b) 120, 140, 160, __, __, __, __, 260.
- c) 890, 900, __, __, __, 940, __, __.
- d) 901, 902, __, __, __, __, 907, __.

4. Bangania kuuma îra nene kûthi îra niini

220, 120, 300, 110, 187, 442

5. Bangania kuuma îra niini kûthi îra nene

570, 930, 380, 456, 228, 870, 620, 999.

6. Ûyûrîria namba ira ikûûra aaga

990, 991, __ , __ , __ , __ , __ , __ , __

B. Kwandîka namba na mîgambo:

1. Thooma na wandîke na mîgambo.

Ngerekano:

64 — Mîrongo îthanthatû na inya.

- a) 36 _____
- b) 78 _____
- c) 66 _____
- d) 99 _____
- e) 53 _____
- f) 44 _____
- g) 88 _____
- h) 13 _____
- i) 20 _____
- j) 95 _____

2. Thooma na wandîke na mîgambo:

- a) 137 _____
- b) 228 _____
- c) 111 _____
- d) 383 _____
- e) 674 _____
- f) 400 _____
- g) 906 _____
- h) 760 _____
- i) 594 _____
- j) 890 _____

C. Gûtara

$$9 + 1 = 10 \quad \text{—} \quad \text{Îkûmi}$$

$$99 + 1 = 100 \quad \text{—} \quad \text{Îgana}$$

$$999 + 1 = 1000 \quad \text{—} \quad \text{Ngiri}$$

1. Andîka namba ira ntige na mîgambo îra mîtige.

Ngerekano:

$$\text{Ngiri îmwê} \quad \text{—} \quad 1000$$

$$\text{a) Ngiri cîrî} \quad \text{—} \quad \text{—}$$

$$\text{b) } \text{—} \quad \text{—} \quad 5000$$

$$\text{c) Ngiri mûgwanja} \quad \text{—} \quad \text{—}$$

- d) _____ 8000
- e) Ngiri ithatû _____
- f) _____ 6000
- g) Ngiri keenda _____
- h) _____ 4000

3. Ûyûria kûra gûtige

Namba	Mîgambo
a) 130	-----
b) 320	-----
c) 180	-----
d) 330	-----
e) -----	Magana mûgwanja ma mîrongo îнна
f) -----	Magana matano ma mîrongo mûgwanja
g) 450	-----
h) -----	Magana manaana
i) -----	Magana mathanthatû
j) 283	-----

4. Ringithania namba ino na mîgambo ûgîtûmagîra ngerekano îra ûnenkeretwe

300	Magana manna
700	Magana maîri
100	Magana mathanthatû
500	Magana mathatû
900	Magana mûgwanja
400	Magana mataano
800	Magana keenda
600	Îgana rîmwe
200	Magana manaana

5. Andîka Namba

- a. Îkûmi na Mûgwanja ____ 17
- b. Mîrongo îîrî na inyaanya ____
- c. Îkûmi na ithatû ____
- d. Mîrongo îthatû na ithatû ____
- e. Mîrongo keenda na ithanthatû ____
- f. Mîrongo îinna na itano ____
- g. Mîrongo îtano na keenda ____

6. Andîka Namba

Ngerekano:

Magana maîrî ma mîrongo îthanthatû - 260

- a. Magana manaana ma mîrongo înaana na inyaanya ____
- b. Îgana rîmwe rîa mîrongo mûgwanja na keenda ____
- c. Magana keenda ma mîrongo înaana ____
- d. Magana maîrî ma mîrongo îнна na ithatû ____
- e. Magana mathatû ma mîrongo îнна ____
- f. Magana mûgwanja ma ithanthatû ____
- g. Magana mana ma mîrongo îнна na inya ____
- h. Îgana rîa îkûmi na îmwe ____
- i. Magana mathatû ma îkûmi na ithatû ____

7. Andîka namba ira ithingatîrîite

Ngerekano:

199, 200

- a. 1999, _____
- b. 2000, _____
- c. 5040, _____
- d. 9909, _____
- e. 5070, _____

8. Andîka namba îra îkûûya mbere ya kîra îmwe ya ino cieyanîîtwe:

Ngerekano:

2999, 3000

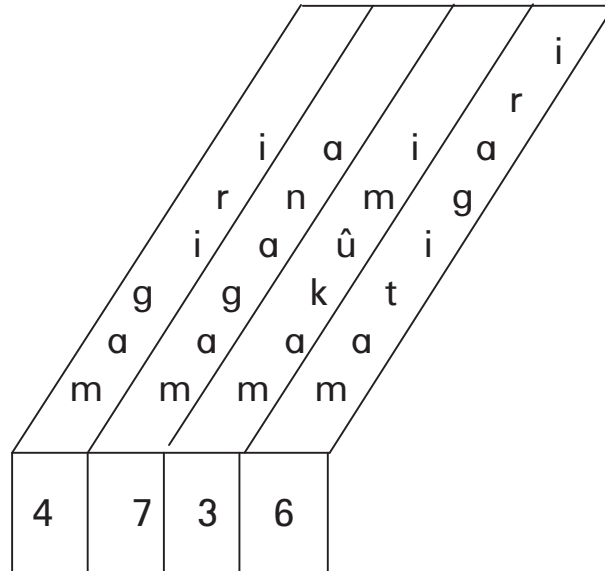
- a. _____, 4000
- b. _____, 3500
- c. _____, 6899
- d. _____, 4425
- e. _____, 6970

9. Ûyûrîria namba ira ikûûra:

- a. 3000, 3100, 3200, _____, _____, _____.
- b. 4000, 4050, 4100, _____, _____, _____.
- c. 8200, 8300, 8400, _____, _____, _____.
- d. 2050, 2150, 2250, _____, _____, _____.
- e. 9950, 9960, _____, _____, _____, _____.

D. Kaanya kara namba îrûgamîrîite

Ngerekano: 4 7 3 6



- 4 - îrî kanyaani ka magiri
- 7 - ûrî kanyaani ka magana
- 3 - irî kanyaani ka makûmi
- 6 - irî kanyaani ka matigagri

1. N'igana matigari, makûmi, magana na matigari kîrî namba ino ûnenkeretwe?

Ngerekano:

2405 = 2 Magiri, 4 Magana, 0 Makûmi, 5 Matigari

- a) 5324 = ___ magiri, ___ magana, ___ makûmi, ___ matigari
- b) 3462 = ___ magiri, ___ magana, ___ makûmi, ___ matigari

- c) $320 = \underline{\quad}$ magiri, $\underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari
- d) $5002 = \underline{\quad}$ magiri, $\underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari
- e) $1903 = \underline{\quad}$ magiri, $\underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari

2. N'igana magana, makûmi na matigari?

Ngerekano:

163 = 1 magana, 6 makûmi, 3 matigari

- a) $470 = \underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari
- b) $48 = \underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari
- c) $902 = \underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari
- d) $280 = \underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari
- e) $516 = \underline{\quad}$ magana, $\underline{\quad}$ makûmi, $\underline{\quad}$ matigari

3. Andîka namba îra îrî na magana, makûmi na matigari

Ngerekano:

5 Magana, 7 Makûmi, 2 Matigari = 572

- a) 7 magana, 4 makûmi, 8 matigari =
- b) 2 magana, 9 makûmi, 6 matigari =
- c) 3 magana, 6 makûmi, 2 matigari =

- d) 1 magana, 0 makûmi, 8 matigari = _____
- d) 1 magana, 0 makûmi, 8 matigari = _____
- e) 9 magana, 2 makûmi, 7 matigari = _____
- f) 8 magana, 9 makûmi, 2 matigari = _____

E. I namba ya igana?

Ngerekano:

Ng'ombe n'ya namba ya ithanthatû

					
ya mbere	ya ciîrî	ya ithatû	ya inya	ya itano	ya ithan- thatû

- a) Mbûri n'ya namba ya _____
- b) Mpempe n'ya namba ya _____
- c) Nyaanya n'ya namba ya _____
- d) Ngûkû n'ya namba ya _____
- e) Îkûyû i rîa Namba ya _____

F. Mîeri ya mwanka

Mweri wa mbere	—————	Mûgaano
Mweri wa îîrî	—————	Mûndondo
Mwerei wa îthatû	—————	Mûcucuma
Mweri wa îнна	—————	Mwirîngo
Mweri wa îtano	—————	Mûkathara
Mweri wa îthanthatû	—————	Mûthaano mûcege
Mweri wa mûgwanja	—————	Mûkûngûgû
Mweri wa înaana	—————	Mûthanthatû
Mweri wa keenda	—————	Mûgwanja
Mweri wa îkûmi	—————	Nyaanya/Nyeenye
Mweri wa îkûmi na ûmwe	—————	Keenda
Mweri wa îkûmi na îîrî	—————	Îkûmi

G. Ntugû cia kiumia

Ringithania ntugû na rîitwa rîayo.

Ya mbere	Ncumataano
Ya ciîrî	Ncumaa
Ya ithatû	Ncumamoci
Ya inya	Aramici
Ya itaano	Ncumapili
Ya ithanthatû	Mûgwanja

H. Kîgerioni kîa mathaabu aana bagwatire:

Kînoti	_____	60
Kamene	_____	73
Kîmathi	_____	65
Kabûri	_____	80
Gapoothi	_____	62
Kîrema	_____	52
Kîbaara	_____	50
Kawîra	_____	58

- a) Nûû watongoretie?
- b) Kîrema aarî wa namba igana?
- c) Nûû warî wa bataano?
- d) Kîbaara aarî wa bagana?
- e) Gapoothi aarî wa bagana?

2

Tûcuncî

KÎONGO GÎA KÎTHOOMO: **Gacuncî ga gîntû Kîûyûru**

Kwambîiria

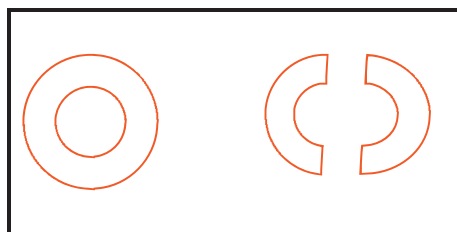
Rîra gîntû gîtarî kîgaanie kîthagîrwa kîrî kîûyûru.

Gîntû gîku gîkeethîrwa gîtikûgana antû bara barîoogo, nwa kîgaanue tûcuncî kaingo kîgana bwega.

A. Kûgaania

Nucu ya gîntû

Ngerekano:



Kîûyûru

nucu / nucu



kîûyûru



nucu



nucu



Kîthiûrûûrî



Gîkuru

B. Gacuncî ga gîkundi

Kwambîîria

Into birî biingî nwa bigaanue ikundi biganeene.

Ngerekano:

		= nucu ya 4
		= nucu ya 6
		= nucu ya 2
		= nucu ya 8
		= nucu ya 10

Ngîgî ya kûruta:

Andîka nucu ya namba ino.

12 =	8 =	22 =
16 =	24 =	14 =
20 =	10 =	30 =

Kwandîka nucu ya namba

I tûthandûkû tûgana tûgemie?



I kathandûkû kamwe kaagemie = $\frac{1}{2}$
kamwe 1
ga
twîrî 2

Tûthandûkû tûtû i tûgana tunthe? = 2

Kwogu kamwe kuuma kîrî twîrî iko kagemie.
Ûûgû i ta kuuga $\frac{1}{2}$ kamwe ga twîrî.

Gweta nucu ino gûûrîitue aga.

$\frac{1}{2}$ ya 10 =	$\frac{1}{2}$ ya 18 =
$\frac{1}{2}$ ya 16 =	$\frac{1}{2}$ ya 14 =

C. Tûcuncî twa inya



$\frac{1}{4}$



$\frac{1}{4}$

I tûcuncî tûgana tûgemie mîcoorooni ino?

Kîthiûrûrî kîrî na 1 kuuma kîrî 4.

Ûûgû i ta kuuga i gacuncî kamwe kagemie = $\frac{1}{4}$

kamwe 1

ga –

tûnna 4

I tûcuncî tûgana tunthe? = i tuna 4

Kîthandûkû kîrî na 1 kuuma kîrî 4.

Ûûgû i ta kuuga i kathandûkû kamwe kagemie = $\frac{1}{4}$

kamwe 1

ga –

tûna 4

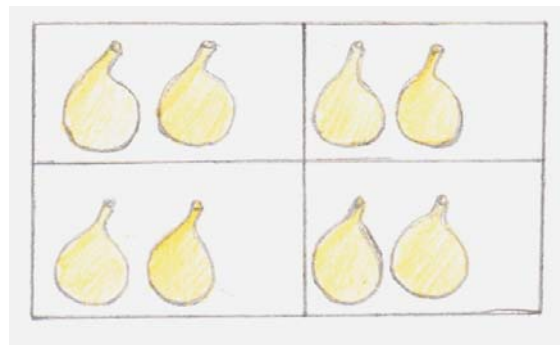
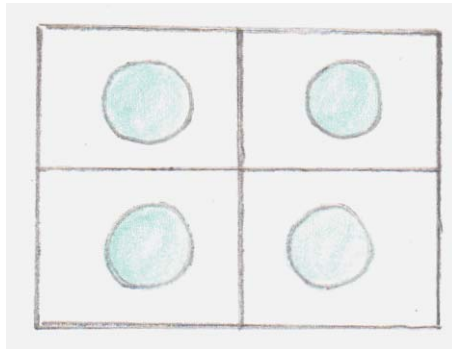
Tûthandûkû i tûgana tunthe? = i tûna 4

D. Tûcuncî twa tûna twa gîkundi

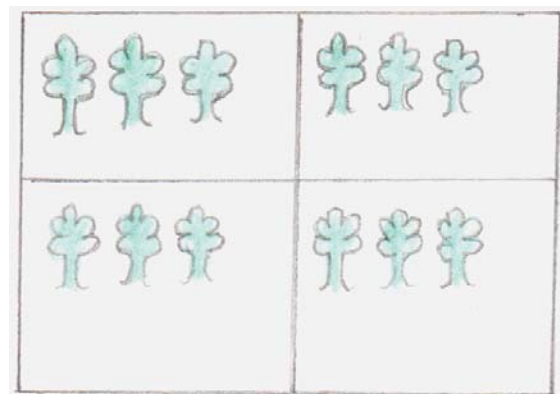
Gacunci

Kamwe ga

tûna



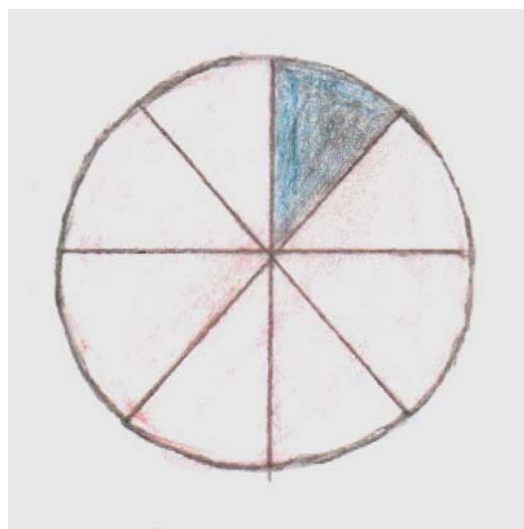
Tûcuncî twa tûna twa inyaanya



Gacuncî ga tûna twa îkûmi na twîrî

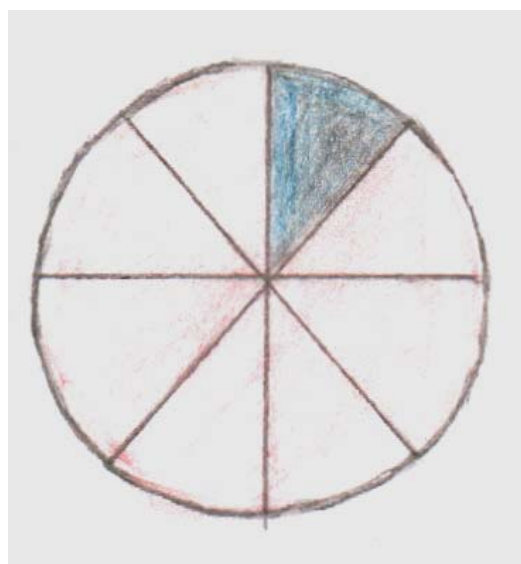


$\frac{1}{8}$



$\frac{1}{8}$

kwandîka tûcuncî twa inyaanya



kamwe 1
ga -
tûnaana 8

3

Mbano

KÎONGO GÎA KÎTHOOMO: Kûringanîria, kûrutithania, kûgaîra na kuugithia maita.

A. Gûtaranîria

1. Ringanîra

Ngerekano:

$$\begin{array}{r} 14 \\ + 37 \\ 26 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 68 \\ + 35 \\ 56 \\ \hline 159 \end{array}$$

a)

$\begin{array}{r} 64 \\ + 37 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ + 86 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ + 24 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ + 25 \\ \hline \end{array}$	$\begin{array}{r} 26 \\ + 33 \\ \hline \end{array}$
$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$
$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$

b)

$\begin{array}{r} 13 \\ + 37 \\ 45 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ + 27 \\ 6 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ + 44 \\ 62 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ + 29 \\ 14 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ + 50 \\ 8 \\ \hline \end{array}$
$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$
$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$

c)	$\begin{array}{r} 17 \\ + 29 \\ \hline 65 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ + 53 \\ \hline 28 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ + 33 \\ \hline 11 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ + 24 \\ \hline 17 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ + 28 \\ \hline 53 \\ \hline \end{array}$
----	--	--	--	--	--

d)	$15 + 32 + 84 =$	$56 + 34 + 25 =$
	$28 + 18 + 25 =$	$53 + 58 + 40 =$
	$36 + 61 + 7 =$	$43 + 84 + 58 =$
	$4 + 49 + 43 =$	$63 + 24 + 7 =$
	$33 + 62 + 33 =$	$47 + 9 + 26 =$

2. Ringanîra

a)	$23 + 63 =$	$35 + 43 =$	$42 + 12 =$
	$34 + 18 =$	$29 + 8 =$	
b)	$75 + 7 + 5 =$	$22 + 3 + 6 =$	$55 + 9 + 3 =$
	$6 + 73 =$	$33 + 12 + 9 =$	

c)	$\begin{array}{r} 28 \\ + 41 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ + 19 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ + 56 \\ \hline \end{array}$	$\begin{array}{r} 56 \\ + 13 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ + 15 \\ \hline \end{array}$
d)	$\begin{array}{r} 33 \\ + 69 \\ \hline 46 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ + 13 \\ \hline 68 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ + 58 \\ \hline 64 \\ \hline \end{array}$	$\begin{array}{r} 77 \\ + 46 \\ \hline 37 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ + 89 \\ \hline 65 \\ \hline \end{array}$

e) 4 7	6 4	2 2	5 3	3 6
+ 6 2	+ 0 8	+ 5 7	+ 2 4	+ 6 4
8 9	7 8	3 8	2 8	1 9
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

3. Ringanîra

Ngerekano:

Mûrîmi aaketheete nkunia 53 cia mpempe na nkunia 29 cia mwere. Nkunia cionthe ira aaketheete ciarî igana?

Îcookio: - $53 + 29 = 82$

1. Mwenda aarî na meembe 47 gêkaabûni kîmwê, na mangî 66 gêkaabûni kîra kîngî. I meembe magana monthe aarî namo?
2. Mûkebe ûmwê waarî na nderemende 95. Mûkebe gûûngî nau warî na nderemeende 34. Nderemeende cionthe ciarî igana?
3. Kamoonte aarî na ng'ombe 83. Acooka aarayîrua ciingî 39. Ng'ombe cia Kamoonte cionthe ciarî igana?
4. M'Kaibiirû aandîkîktwe mîeri yîrî. Mweri wa mbere arîigwa ciringi 127. Mweri wa yîrî arîigwa ciringi 89. I ciringi igana M'Kaibiirû aarîrwe cionthe?

4. Ringanîra

Ngerekano:

$$\begin{array}{r} 237 \\ + 454 \\ \hline 791 \end{array}$$

$$\begin{array}{r} 367 \\ + 275 \\ \hline 642 \end{array}$$

$$\begin{array}{r} 1) \quad 38 \\ + 28 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 16 \\ + 75 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 54 \\ + 29 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 66 \\ + 35 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 236 \\ + 423 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 509 \\ + 131 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 623 \\ + 417 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 547 \\ + 347 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 287 \\ + 396 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 324 \\ + 591 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 158 \\ + 625 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 300 \\ + 417 \\ \hline \\ \hline \end{array}$$

$$13) \quad 472 + 121 =$$

$$14) \quad 525 + 129 =$$

$$15) \quad 739 + 213 =$$

$$16) \quad 269 + 320 =$$

B. Kûrutithania

Ngerekano:

$\begin{array}{r} 48 \\ - 5 \\ \hline 43 \end{array}$	$\begin{array}{r} 27 \\ - 13 \\ \hline 14 \end{array}$	$\begin{array}{r} 857 \\ - 33 \\ \hline 824 \end{array}$
---	--	--

1) $\begin{array}{r} 97 \\ - 5 \\ \hline \hline \end{array}$	2) $\begin{array}{r} 37 \\ - 5 \\ \hline \hline \end{array}$	3) $\begin{array}{r} 99 \\ - 13 \\ \hline \hline \end{array}$	4) $\begin{array}{r} 66 \\ - 33 \\ \hline \hline \end{array}$
--	--	---	---

5) $\begin{array}{r} 346 \\ - 42 \\ \hline \hline \end{array}$	6) $\begin{array}{r} 299 \\ - 39 \\ \hline \hline \end{array}$	7) $\begin{array}{r} 354 \\ - 143 \\ \hline \hline \end{array}$
--	--	---

8) $\begin{array}{r} 987 \\ - 313 \\ \hline \hline \end{array}$	9) $\begin{array}{r} 939 \\ - 442 \\ \hline \hline \end{array}$	10) $\begin{array}{r} 973 \\ - 233 \\ \hline \hline \end{array}$
---	---	--

11) $457 - 20 =$

13) $863 - 122 =$

15) $777 - 77 =$

12) $888 - 73 =$

14) $179 - 124 =$

16) $999 - 666 =$

C. Kûrutithania ûkîrombaga Kamwe

Ngerekano:

$$\begin{array}{r} 4 \\ \cancel{5} 3 \\ - 6 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 8 \\ \cancel{9} 6 \\ - 8 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 7 \\ \cancel{8} 7 \\ - 19 \\ \hline 68 \end{array}$$

1)	$\begin{array}{r} 57 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ - 18 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ - 8 \\ \hline \end{array}$
	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$

2)	$\begin{array}{r} 35 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ - 16 \\ \hline \end{array}$	$\begin{array}{r} 77 \\ - 29 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ - 29 \\ \hline \end{array}$
	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$

3)	$\begin{array}{r} 37 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ - 28 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ - 15 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ - 18 \\ \hline \end{array}$
	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$

4)	$13 - 8 =$	$12 - 8 =$
	$23 - 23 =$	$33 - 18 =$

D. Kûringanîra namba cîrî irî namba inya ûgîkamataga kana ûtagûkamata na îtagûkûrûkia 9,999.

i) Kûringanîra ûtagûkamata

Ngerekano

$\begin{array}{r} 2103 \\ + 1862 \\ \hline 3965 \end{array}$	$\begin{array}{r} 7147 \\ + 2812 \\ \hline 9959 \end{array}$
--	--

1) $\begin{array}{r} 2014 \\ + 1353 \\ \hline \end{array}$	2) $\begin{array}{r} 4351 \\ + 2634 \\ \hline \end{array}$	3) $\begin{array}{r} 7102 \\ + 1836 \\ \hline \end{array}$	4) $\begin{array}{r} 8101 \\ + 1003 \\ \hline \end{array}$
--	--	--	--

5) $\begin{array}{r} 5555 \\ + 2222 \\ \hline \end{array}$	6) $\begin{array}{r} 3456 \\ + 6232 \\ \hline \end{array}$	7) $\begin{array}{r} 8003 \\ + 1091 \\ \hline \end{array}$
--	--	--

8) $\begin{array}{r} 3322 \\ + 5673 \\ \hline \end{array}$	9) $\begin{array}{r} 4134 \\ + 2313 \\ \hline \end{array}$	10) $\begin{array}{r} 4311 \\ + 1143 \\ \hline \end{array}$
--	--	---

(ii) Kûringanîra ûgîkamataga

Ngerekano

$\begin{array}{r} 11 \\ 4737 \\ + 1381 \\ \hline 6118 \end{array}$	$\begin{array}{r} 111 \\ 3789 \\ + 1136 \\ \hline 5225 \end{array}$
--	---

1)
$$\begin{array}{r} 3857 \\ + 1363 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 8679 \\ + 1245 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 6789 \\ + 1456 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 2894 \\ + 1657 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 6518 \\ + 1693 \\ \hline \end{array}$$

6)
$$\begin{array}{r} 1998 \\ + 3333 \\ \hline \end{array}$$

7)
$$\begin{array}{r} 1978 \\ + 1876 \\ \hline \end{array}$$

8)
$$\begin{array}{r} 3345 \\ + 1873 \\ \hline \end{array}$$

9)
$$\begin{array}{r} 3083 \\ + 5021 \\ \hline \end{array}$$

10)
$$\begin{array}{r} 5789 \\ + 3232 \\ \hline \end{array}$$

11)
$$\begin{array}{r} 4760 \\ + 3330 \\ \hline \end{array}$$

12)
$$\begin{array}{r} 1770 \\ + 1650 \\ \hline \end{array}$$

13) $1247 + 3864 =$

14) $1966 + 2008 =$

- 15) M'Mwathi aarî na mbûri 736. Araayîrua ciingî 238.
Aarî na mbûri igana cionthe?
- 16) Ciantumîra endirie ng'ombe ciringi 3,565 na endia
ng'ombe yiingî ciringi 4,657. Agwatire ciringi igana
cionthe?
- 17) Kamankuura aûmbîte matubaarî 1664. Acooka
aûmba mangî 2726. I matubarî magana ata
aûmbîte monthe?
- 18) Mûcaara wa Karîmi warî ciringi 1697 wa mweri na
mûcaara wa Mûtugi warî ciringi 2240 wa mweri.
Mûcaara wago gunthe wa mweri warî ciringi igana?

**E. Kûrutithania namba irî na namba inya kuuma kîrî
yîngî irî na namba inya ûkîroombaga kana ûtakûroomba**

(i) Kûrutithania ûtakûroomba

Ngerekano:

1. 7 3 8 6	2. 7 5 3 8
- 2 1 4 0	- 4 3 2 5
<u>5 2 4 6</u>	<u>3 2 1 3</u>

(ii) Kûrutithania ûkîroombaga

Ngerekano

$\begin{array}{r} \textcolor{red}{1} \\ 6456 \\ - 3047 \\ \hline 3409 \end{array}$	$\begin{array}{r} \textcolor{red}{1} \\ 9352 \\ - 4116 \\ \hline 5236 \end{array}$
--	--

1) $\begin{array}{r} 16 \\ - 11 \\ \hline \end{array}$	2) $\begin{array}{r} 32 \\ - 11 \\ \hline \end{array}$	3) $\begin{array}{r} 88 \\ - 25 \\ \hline \end{array}$
--	--	--

4) $\begin{array}{r} 73 \\ - 25 \\ \hline \end{array}$	5) $\begin{array}{r} 27 \\ - 19 \\ \hline \end{array}$	6) $\begin{array}{r} 563 \\ - 325 \\ \hline \end{array}$
--	--	--

7) $\begin{array}{r} 5123 \\ - 4052 \\ \hline \end{array}$	8) $\begin{array}{r} 6389 \\ - 3253 \\ \hline \end{array}$	9) $\begin{array}{r} 5978 \\ - 288 \\ \hline \end{array}$
--	--	---

10) $6349 - 2527 =$	11) $5627 - 212 =$
---------------------	--------------------

12) $9576 - 2457 =$	13) $9999 - 999 =$
---------------------	--------------------

14) Ntûûra ya Kanwaa îrî na antû 4365. Antû 2228 baarî eekûrû. Ntûûra ya kanwaa yaarî na antwarûme bagana?

15) Cukuru ya Mûthiitwa îrî na arutwa 1213. Twîyî i 608, twarî i tûgana cukuru ya Mûthiitwa?

16) Kûrî ntugû ya kwanda mîtî, cukuru ya Mariene
yaandire mîtî 2557, yaûma mîtî 1328. I mîtî îgana
yatigarire îtarî mîûmo?

F. Kûringa maita namba ciîrî îmwê îmwê

Ngerekano:

Andîka centenci ya kuugithania maita kîrî mîbangîre îno
ûnenkeretwe.

__ x __ = __ __ x __ = __



$3 \times 5 = 15$ $2 \times 3 = 6$ $3 \times 4 = 12$



__ x __ = __ x __ = __ x __ =

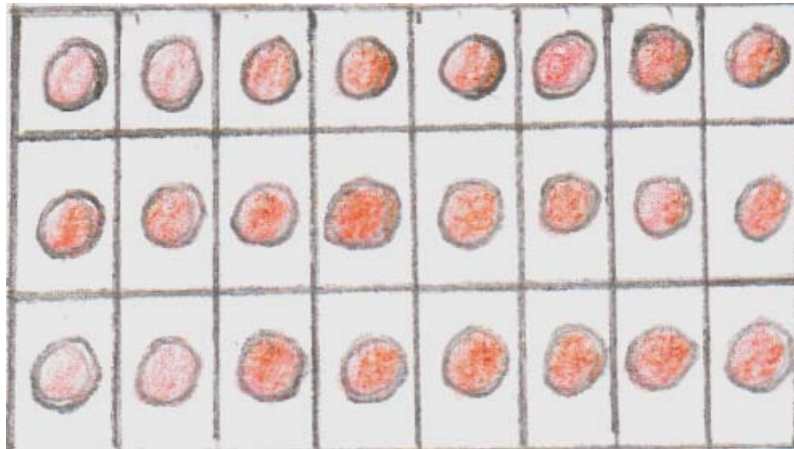
$$\begin{array}{r}
 1) \quad 3 \\
 \times 3 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 2) \quad 2 \\
 \times 6 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 3) \quad 5 \\
 \times 6 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 4) \quad 2 \\
 \times 5 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5) \quad 6 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 6) \quad 6 \\
 \times 3 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 7) \quad 4 \\
 \times 2 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 8) \quad 9 \\
 \times 3 \\
 \hline
 \end{array}$$

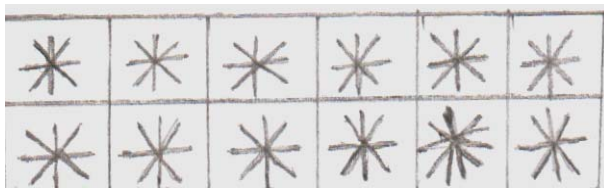
$$\begin{array}{r}
 9) \quad 3 \\
 \times 5 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 10) \quad 2 \\
 \times 8 \\
 \hline
 \end{array}$$

Ûyûrîria mûraba ûyû kûra gûtigîitwe

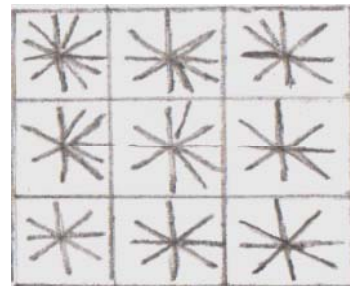
X	1	2	3	4	5	6
2						
3			9			
4		8				
5						30



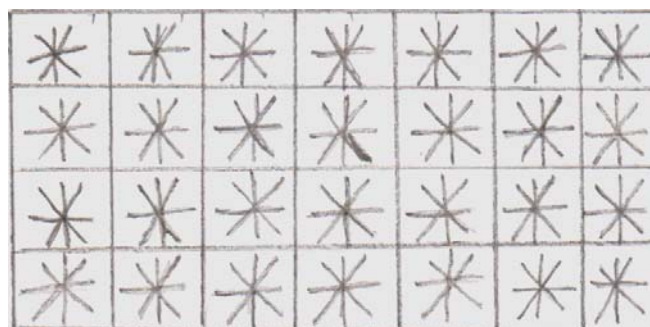
$$3 \times 8 = 24$$



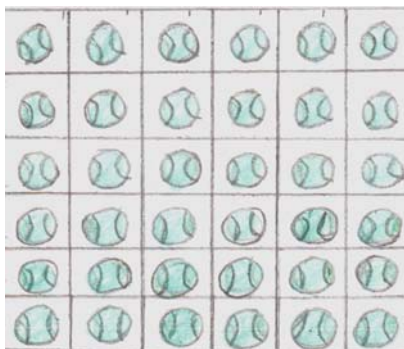
$$2 \times 6 = 12$$



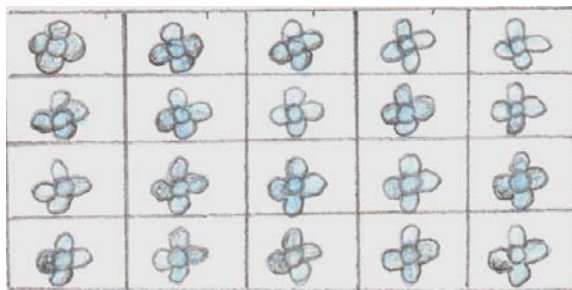
$$3 \times 3 = 9$$



$$__ \times __ = ___$$



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$8 \times 3 =$

$9 \times 3 =$

$7 \times 5 =$

$8 \times 5 =$

$3 \times 6 =$

$7 \times 4 =$

$9 \times 1 =$

$6 \times 4 =$

$3 \times 5 =$

$8 \times 5 =$

$9 \times 4 =$

$6 \times 6 =$

Ûyûrîria mûraba ûyû kûra gûtigîitwe

x	1	2	3	4	5	6	7	8	9
1									
2									
3				12					
4						24			
5		10							45
6									

a) Ringa maita

$3 \times 5 =$

$5 \times 6 =$

$3 \times 7 =$

$6 \times 5 =$

$3 \times 6 =$

$4 \times 6 =$

$8 \times 5 =$

$7 \times 6 =$

$5 \times 8 =$

$7 \times 5 =$

$4 \times 6 =$

$1 \times 9 =$

$4 \times 5 =$

$9 \times 6 =$

$2 \times 8 =$

b) Ringa maita

$7 \times 6 =$

$2 \times 5 =$

$5 \times 6 =$

$1 \times 8 =$

$7 \times 7 =$

$9 \times 8 =$

$8 \times 6 =$

$7 \times 8 =$

$8 \times 5 =$

c) Ringa maita

$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

d) Ringa maita

1. Mûriûngi akwayua aatîrire cukuru biumia 4.

I ntugû igana cionthe aatîrire cukuru?

2. Nkûba irî na magûrû 6. Nkûba 5 irî na magûrû magana?

3. Ibuku rîmwe rîendagua ciringi kenda. Î ciringi igana
baaba aatûmîre kûgûra mabuku mana?

4. Twaana 5 twarûmiirue nderemende 6 wa kaana.
Nderemende cionthe ira cianenkeerwe twaana ciarî
igana?

G. Ngwatanîro gatîgatî ga kûringa maita na kûgaîra

Ngerekano

$$3 \times 2 = \underline{\quad} \quad 2 \times 4 = 8 \quad 3 \times 4 = 12$$

$$6 \div 2 = \underline{\quad} \quad 8 \div 4 = \underline{\quad} \quad 12 \div \underline{\quad} = 3$$

$$6 \div 2 = 3 \quad 8 \div 2 = 4 \quad 12 \div 3 = 4$$

$$6 \times \underline{\quad} = 36$$

$$\underline{\quad} \times 7 = 21$$

$$\underline{\quad} \times 9 = 27$$

$$7 \times \underline{\quad} = 35$$

$$6 \times \underline{\quad} = 42$$

$$9 \times \underline{\quad} = 72$$

$$24 = \underline{\quad} \times 4$$

$$18 = 3 \times \underline{\quad}$$

$$49 = 7 \times \underline{\quad}$$

$$64 = \underline{\quad} \times 8$$

$$36 = 4 \times \underline{\quad}$$

$$25 = 5 \times \underline{\quad}$$

$9 \times _ = 9$	$3 \times 9 = _$	$8 \times _ = 16$
$4 \times _ = 16$	$7 \times _ = 63$	$6 \times _ = 24$
$_ \times 6 = 30$	$_ \times 4 = 20$	$9 \times 5 = _$
$7 \times 6 = _$	$42 = 6 \times _$	
$42 = 7 \times _$		

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

Kîthikî arî na twana 7. Akûthi thokooni aagûrîre wa kaana macunkwa 4.

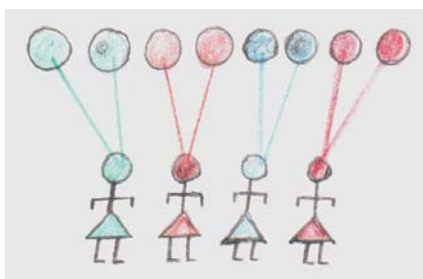
I macunkwa magana Kîthikî aagûrîite?

Bundi wa nyomba abaangire matubaarî na mîcitari 9. Wa kîra mûcitaari waarî na matubarî 9.

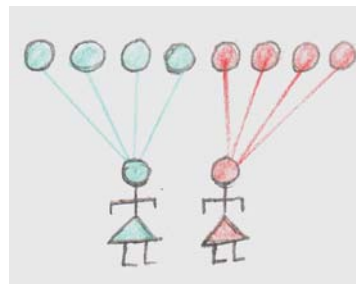
Bundi aarî na matubaarî magana monthe?

H. Kûgaîra namba iganeene na njîra ya kûrutithania

Ngerekano:



$$8 \div 4 = 2$$



$$8 \div 2 = 4$$

1. $6 \div 2 =$	2. $8 \div 2 =$	3. $4 \div 2 =$	4. $10 \div 2 =$
5. $20 \div 2 =$	6. $6 \div 3 =$	7. $9 \div 3 =$	8. $4 \div 4 =$
9. $12 \div 4 =$	10. $12 \div 3 =$	11. $12 \div 6 =$	12. $24 \div 3 =$

13. Kaarî aarî na nderemende 6.

Bagaana na mûruagina iganeene.

Wa kîra muntû agwaatire nderemende igana?

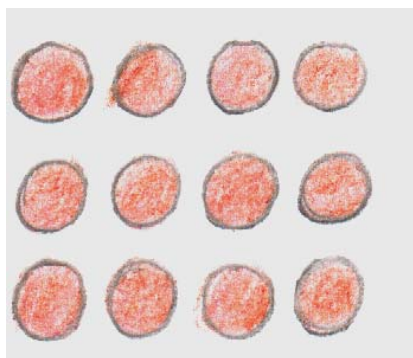
14. Rûgendo, Kîrimi na Kaîthî bagaîrîrwe ndigû 12 i gina.

Wa kaana kanenkeerwe ndigû igana?

15. Mwekûrû ûmwe aarî na makome 15. Aagaîra twaana twake 3 maganeene.

Wa kaana kanenkeerwe makome magana?

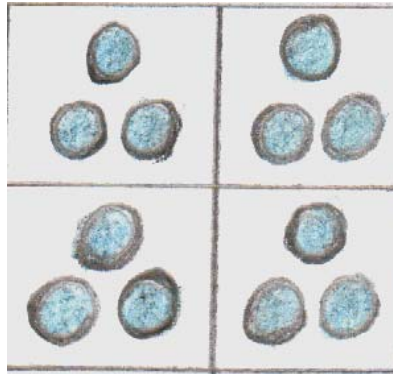
I. Kûgaîra namba cîrî na namba îmwê ûgîtûmagîra njîra ya kûringithania maita



$$12 \div 3 = 4$$



$$4 \times 3 = 12$$



$$12 \div 4 = 3$$

1. a) $6 \times 2 =$

b) $12 \div 6 =$

c) $12 \div 2 =$

2. a) $5 \times 3 =$

b) $15 \div 3 =$

c) $15 \div 5 =$

3. a) $7 \times 2 =$

b) $14 \div 7 =$

c) $14 \div 2 =$

4. a) $9 \times 3 =$

b) $27 \div 9 =$

c) $27 \div 3 =$

5. a) $8 \times 4 =$

b) $32 \div 8 =$

c) $32 \div 4 =$

6. a) $4 \times 10 =$

b) $40 \div 10 =$

c) $40 \div 4 =$

7. a) $__ \times 5 = 50$

b) $50 \div 10 =$

c) $50 \div 5 =$

8. $18 \div 3 =$

9. $27 \div 3 =$

10. $70 \div 10 =$

11. $45 \div 5 =$

12. $64 \div 12 =$

13. $28 \div 4 =$

14. $72 \div 8 =$

15. $81 \div 9 =$

16. $49 \div 7 =$

J. Kûgaîra

1. $12 \div 3 =$

2. $30 \div 6 =$

3. $10 \div 5 =$

4. $15 \div 3 =$

5. $21 \div 3 =$

6. $64 \div 8 =$

7. $63 \div 9 =$

8. $25 \div 5 =$

9. $40 \div 10 =$

10. $81 \div 9 =$

11. $32 \div 2 =$

12. $16 \div 4 =$

13. Kîraci kîa 3 gîa cukuru ya Mûthiitwa kîarî na aana 8.

Mwarîmû wao abagaîra tûramu 32. Wa kîra mwaana aanenkeerwe tûramu tûgana?

14. Kîraci kîa 3 gîa cukuru ya Mbacaca kîarî na arutwa

40. Mwarimû abagaania makundi 5 maganeene.

Wa gîkundi kîarî na arutwa bagana?

15. Taata aumire thokooni na ndigû 24. Agaîra Kamene,

Kabûri, Mûtegi na Mûrîithi, iganeene. Wa mwaana aarîire ndigû igana?

16. Nkagaîra macunkwa 30 maganeene kîrî ana 5, wa

mwaana akagwata macunkwa magana?

K. Kûyûrîria mûraba

X	2	3	4	5	6	7	8	9
2					12			
3		9						
4							32	
5				25				
6							48	
7								
8			32					
9								81

Tûmîra mûraba kûgaîra mathabu mama

- | | | |
|-------------------------|--------------------|--------------------|
| 1. a) $4 \times 3 = 12$ | b) $12 \div 4 = 3$ | c) $12 \div 3 = 4$ |
| 2. a) $25 \div 5 =$ | b) $27 \div 3 =$ | c) $63 \div 7 =$ |
| 3. a) $64 \div 8 =$ | b) $56 \div 7 =$ | c) $56 \div 8 =$ |
| 4. a) $48 \div 6 =$ | b) $49 \div 7 =$ | c) $72 \div 8 =$ |
| 5. a) $72 \div 9 =$ | b) $63 \div 9 =$ | c) $18 \div 6 =$ |
| 6. a) $21 \div 7 =$ | b) $32 \div 4 =$ | c) $48 \div 8 =$ |
| 7. a) $54 \div 9 =$ | b) $54 \div 6 =$ | c) $81 \div 9 =$ |

8. M'Kîrigia aarî na ng'ombe 36.

Aagaîra nthaka ciake 6.

Wa nthaka yagaîrîrwe ng'ombe igana?

Njîra yîingî ya kûgaîra

Ngerekano:

$$12 \div 3 = 4 \quad \text{kana} \quad 3 \overline{)12} = 4$$

- | | | | | | |
|-------|--------------------|----|--------------------|----|--------------------|
| 1. a) | $2 \overline{)10}$ | b) | $5 \overline{)10}$ | c) | $3 \overline{)15}$ |
| 2. a) | $3 \overline{)24}$ | b) | $4 \overline{)32}$ | c) | $5 \overline{)45}$ |
| 3. a) | $6 \overline{)36}$ | b) | $3 \overline{)27}$ | c) | $9 \overline{)27}$ |
| 4. a) | $4 \overline{)16}$ | b) | $6 \overline{)54}$ | c) | $5 \overline{)30}$ |
| 5. a) | $8 \overline{)72}$ | b) | $9 \overline{)81}$ | c) | $9 \overline{)72}$ |

6. Kanyore agaîrîre aarî bake 7 mbûri 49 iganeene.

Wa mwaarî aagaîrîrwe mbûri igana?

7. Mûrugaara agaîrîre aana 9 ba kîraci gîake tûramu 81.

Wa kaana kagaîrîrwe tûramu tûgana?

**L. Mûbaangîre wa namba ndeni ya gûtaranîria, kûruta
na kûringithania maita**

Gûkû i gûceria namba îra îthingatîite namba ira
ûnenkeretwe ûkîthingataga njîra ya gûtaranîria, kûruta
kana kûringithania maita.

Ngerekano:

I namba îrîkû îthingatîrîite mûbangooni ûyû wa namba?

4, 8 , 12 ____

$$4 \times 1 = 4 \quad 4 \times 2 = 8 \quad 4 \times 3 = 12 \quad 4 \times 4 = 16$$

Kwogu namba îra îthingatîite 12 i 16.

Ceria namba îra îthingatîite mûbangîreni ûyû.

1. a) 7, 9, 11, 13, 15, __

b) 41, 44, 47, 50, __

c) 18, 16, 14, 12, __

d) 90, 80, 70, 60, __

e) 3, 6, 9, 12, 15, 18, __

f) 2, 4, 6, 8, 10, __

4

Tûcuncî

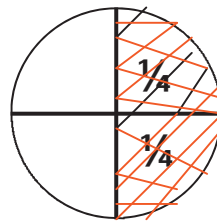
KÎONGO GÎA KÎTHOOMO: Kûringanîra na kûruta tûcuncî

A. Kûringanîra tûcuncî

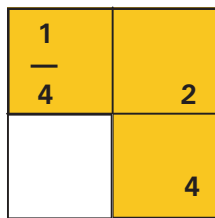
Ngerekano:



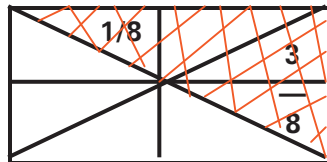
$$\frac{1}{8} + \frac{1}{8} = \frac{2}{8}$$



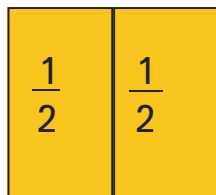
$$\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$$



$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$



$$\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$$



$$\frac{1}{2} + \frac{1}{2} = \frac{2}{2}$$

Biûria 1

a) $\frac{1}{8} + \frac{1}{8} =$

b) $\frac{1}{8} + \frac{6}{8} =$

c) $\frac{1}{4} + \frac{2}{4} =$

$$\text{d)} \quad \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$$

$$\text{e)} \quad \frac{3}{4} + \frac{1}{4} =$$

$$\text{f)} \quad \frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$$

$$\text{g)} \quad \frac{1}{4} + \frac{2}{4} + \frac{1}{4} =$$

$$\text{h)} \quad \frac{1}{2} + \frac{1}{2} =$$

$$\text{i)} \quad \frac{2}{8} + \frac{6}{8} =$$

Biûria 2

$$1. \quad \frac{3}{8} + \frac{4}{8} =$$

$$2. \quad \frac{2}{4} + \frac{2}{4} =$$

$$3. \quad \frac{1}{8} + \frac{7}{8} =$$

$$4. \quad \frac{3}{8} + \frac{2}{8} =$$

$$5. \quad \frac{5}{8} + \frac{2}{8} =$$

$$6. \quad \frac{1}{4} + \frac{2}{4} =$$

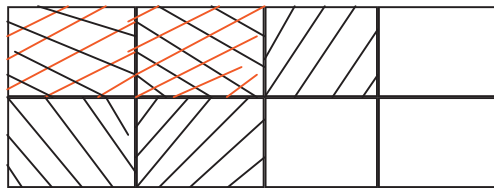
$$7. \quad \frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$$

$$8. \quad \frac{1}{4} + \frac{2}{4} + \frac{1}{4} =$$

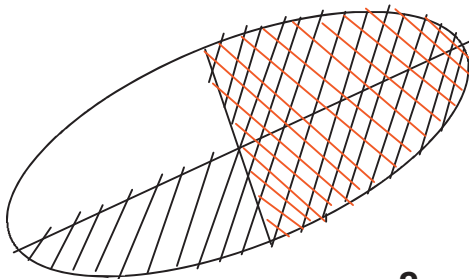
B. Kûrutithania tûcuuncî

Ngerekano:

1. Gemia tûthaandûkû tûtaano twa tûnaana.
2. Kîrî tûra tûgemie ruta twirî na njîra ya gûtûgemia nkûrûki ya tûra tûûngî.



$$\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$$



$$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

1. Gemia tûthatû twa tûna.

2. Kîrî tûra tûgemie, ruta twîrî na njîra ya gûtugemia nkûrûki.

Biûria 1

$$1. \quad \frac{5}{8} - \frac{2}{8} =$$

$$2. \quad \frac{1}{2} - \frac{1}{2} =$$

$$3. \quad \frac{8}{8} - \frac{2}{8} =$$

$$4. \quad \frac{3}{4} - \frac{1}{4} =$$

$$5. \quad \frac{4}{8} - \frac{2}{8} =$$

$$6. \quad \frac{4}{8} - \frac{1}{8} =$$

$$7. \quad \frac{5}{8} - \frac{1}{8} =$$

$$8. \quad \frac{7}{8} - \frac{1}{8} =$$

$$9. \quad \frac{6}{8} - \frac{3}{8} =$$

$$10. \quad \frac{2}{4} - \frac{1}{4} =$$

Kûringanîra na kûrutithania tûcuuncî

$$1. \quad \frac{3}{4} + \frac{1}{4} =$$

$$2. \quad \frac{4}{4} - \frac{1}{4} =$$

$$3. \quad \frac{2}{4} + \frac{1}{4} =$$

$$4. \quad \frac{8}{8} - \frac{1}{8} =$$

$$5. \quad \frac{1}{8} + \frac{3}{8} =$$

$$6. \quad \frac{7}{8} - \frac{2}{8} =$$

$$7. \quad \frac{1}{4} + \frac{2}{4} =$$

$$8. \quad \frac{2}{8} - \frac{1}{8} =$$

$$9. \quad \frac{1}{2} + \frac{1}{2} =$$

$$10. \quad \frac{3}{4} - \frac{2}{4} =$$

11. Ûkeegua urî na îreenge, na ûkarîgiitîra ûyûûgu
¼ yarîo, ûgaatigwa na gîcuuncî kîgana ata?

12. Karîthi na Mûgao i baarî na tûcuuncî $\frac{2}{4}$
twa îbabaî gwa kîra ûmwe, î gîcuncî $\frac{1}{4}$
kîa îbabaî kîgana ata baarî nakîo kîonthi?

13. Mûrea aarî na mûnda $\frac{1}{4}$ ya îka, acooka agûra $\frac{2}{4}$ ya
îka. I gîcuuncî kîgana ata kîa îka arî nakîo.

14. Gemia icuuncî bibi - $\frac{3}{8}$

15. Gemia mûraba ûyû kwonania îcookio

rîa îthaabu. $\frac{5}{8} + \frac{1}{8} =$

Kûrutithania tûcuncî

1. Mûgwanja kwa inyaanya kûruta ciîrî
kwa inyaanya i _____

2. Ithatû kwa inya kûruta îmwê kwa ithatû i _____

Biûria 2

1.	a)	$\frac{5}{8} - \frac{2}{8} =$	b)	$\frac{6}{8} - \frac{3}{8} =$	c)	$\frac{7}{8} - \frac{5}{8} =$
	d)	$\frac{3}{4} - \frac{2}{4} =$	e)	$\frac{2}{4} - \frac{1}{4} =$		

2. Kîthirîki arî na gîcuuncî kîa bithatû kîa îka îmwê ya
mûnda, agaîra aarî baake baîrî wa kîra ûmwê $\frac{1}{4}$ ya îka.
Kîthirîki aatigirwe na mûûnda ûgana ata?

5

Kûthima

A. Ûraaya

Ûraaya bwa gîntû bûthimagwa na mita.

Amba wondie rîru ûcooke ûthime ûraaya bwa into bibi

Gîntû	Kwondia	Kûthima
mûrango wa kîraci		
meetha ya mwarimû		
kîraci kîenu		
kuuma kiraciini kûthi mwîrîgaani wa cukuru		
kuuma kîraciini kûthi acemburî		

B. Kûringanîra na kûruta ûgîtûmagîra mita

Ngerekano:

$$\begin{array}{r} \text{a)} \quad 2 \ 0 \ 7 \ \text{m} \\ + 1 \ 2 \ 2 \ \text{m} \\ \hline 3 \ 2 \ 9 \ \text{m} \end{array}$$

$$\begin{array}{r} \text{b)} \quad 5 \ 6 \ 3 \ \text{m} \\ 1 \ 7 \ 8 \ \text{m} \\ \hline 7 \ 4 \ 1 \ \text{m} \end{array}$$

$$\begin{array}{r} \text{c)} \quad 8 \ 4 \ 4 \ \text{m} \\ - 6 \ 2 \ 2 \ \text{m} \\ \hline 2 \ 2 \ 2 \ \text{m} \end{array}$$

$$\begin{array}{r} \text{d)} \quad 9 \ 0 \ 6 \ \text{m} \\ - 6 \ 9 \ 8 \ \text{m} \\ \hline 2 \ 0 \ 8 \ \text{m} \end{array}$$

Ringanîra kana ûrute

$$\begin{array}{r} \text{1.} \quad 7 \ 0 \ 0 \ \text{m} \\ + 2 \ 0 \ \text{m} \\ \hline \end{array}$$

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

$$\begin{array}{r} \text{3.} \quad 4 \ 4 \ 5 \ \text{m} \\ + 1 \ 6 \ \text{m} \\ \hline \end{array}$$

$$\begin{array}{r} \text{4.} \quad 7 \ 6 \ 6 \ \text{m} \\ + 5 \ 3 \ \text{m} \\ \hline \end{array}$$

$$\begin{array}{r} \text{5.} \quad 6 \ 3 \ 3 \ \text{m} \\ + 1 \ 2 \ 1 \ \text{m} \\ \hline \end{array}$$

$$\begin{array}{r} \text{6.} \quad 4 \ 3 \ 7 \ \text{m} \\ + 1 \ 4 \ 4 \ \text{m} \\ \hline \end{array}$$

$$\begin{array}{r} \text{7.} \quad 2 \ 5 \ 4 \ \text{m} \\ + 1 \ 6 \ 1 \ \text{m} \\ \hline \end{array}$$

8. $622 \text{ m} - 11 \text{ m} = \underline{\hspace{2cm}} \text{ m}$

9. $444 \text{ m} - 18 \text{ m} = \underline{\hspace{2cm}} \text{ m}$

10. $674 \text{ m} - 82 \text{ m} = \underline{\hspace{2cm}} \text{ m}$

11.
$$\begin{array}{r} 371 \text{ m} \\ - 121 \text{ m} \\ \hline \end{array}$$

12.
$$\begin{array}{r} 527 \text{ m} \\ - 119 \text{ m} \\ \hline \end{array}$$

Tûmîra mbica ino gûcookia biûria bibi

kwa ba
Njerû



kwa ba
Karîmi



cukuru
yao



mita 120

mita 80

1. Kuuma kwa ba Njerû kûthi kwa ba Karîmi i mita igana?
2. Kuuma kwa ba Karîmi kûthi cukuru i mita igana?
3. Njerû aumire mûciî mwanka cukuru, i mita igana aathiire?

4. Kuuma kwa ba karîmi kûthi cukuru na na gûcooka i mita igana?

5. Karîmi aathiire kûriûngîra Njerû ûgoro na acooka, i mita igana aathiire?

C. Kugithia maita na kûgaîra ûgîtûmagîra mita

Rîra tûkuugithia maita, tûtûmagîra rwano rûrû ($\times$)

Rîra tûkûgaîra, tûtûmagîra rwano rûrû ($\div$)

Ngerekano:

1. $3m \times 2 = 6m$

2. $6m \times 10 = 60m$

3. $12m \div 3m = 4m$

4. $81m \div 9 = 9m$

Ugithia maita kana ûgaîre

1. $15m \times 2 = \underline{\hspace{1cm}}m$

2. $22m \times 3 = \underline{\hspace{1cm}}m$

3. $9m \times 4 = \underline{\hspace{1cm}}m$

4. $5m \times 6 = \underline{\hspace{1cm}}m$

5. $7m \times 10 = \underline{\hspace{1cm}}m$

6. $11m \times 3 = \underline{\hspace{1cm}}m$

7.
$$\begin{array}{r} 3 \ 2 \ m \\ \times \ 2 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 1 \ 2 \ m \\ \times \ 4 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 4 \ 4 \ m \\ \times \ 2 \\ \hline \end{array}$$

10. $30m \div 2 = __m$

12. $44m \div 2 = __m$

14. $48m \div 6 = __m$

16. $35m \div 7 = __m$

11. $22m \div 2 = __m$

13. $56m \div 7 = __m$

15. $88m \div 4 = __m$

17. $63m \div 9 = __m$

6

Urito

Kwambĩria

Into birĩ ũrito mwanya mwanya.

Into bimwe bigũragwa kũringana na ũrito bwa bio.

Ũũthũ kana ũrito bwa gĩntũ buthimagwa na kirũ.

A. Kũthima ũrito na kirũ

Ngerekano:

I mũrigo ũrikũ mũrito mbicaani ĩno?

Ũtiũmba kuuga ũrito bwa gĩntũ bũra bũgana ũtambĩite
kũthima na kirũ.



Biûria

- | | |
|-----------------------|-------------------------|
| 1. kirû 4 + kirû 3 = | 2. kirû 6 + kirû 6 = |
| 3. kirû 3 + kirû 1 = | 4. kirû 5 + kirû 5 = |
| 5. kirû 5 - kirû 2 = | 6. kirû 3 - kirû 1 = |
| 7. kirû 7 + kirû 7 = | 8. kirû 10 + kirû 10 = |
| 9. kirû 10 + kirû 1 = | 10. kirû 34 - kirû 11 = |

11. Mûtegi n'arî na kirû 8 cia mûnya. Gakwayî n'arî na kirû 8. Bonthe baarî na kirû igana?

12. Karemu aarî na gêempe gê ûkî bwa kirû îkûmi. Aarûmia Ndundu ûkî bwa kirû inyaanya. Karemu aatigariirie ûkî bwa kirû igana?

13. Gwatia aarî na kirû 60. Kîrangi aarî na kirû 53, Kîthirîki aarî na kirû 70, na Karîithi n'we aarî na kirû 80. Bonthe baarî na kirû igana?

14. Karekie aarî na nkunia ya mwere ya kirû 100, aaraia Karaûki kirû 27 na acooka eekîira Mwenda thiiirî ya kirû 13. Aatigirwe na kirû igana?

15. Mûcee aagûrire kirû 15 cia mpempe Gatûnga na kirû 7 cia mbooco Mûkothima cia kûruga nyamburaani. N'irio bia kirû igana biarugirwe?

7

Mûthûûmba

KÎONGO GÎA KÎTHOOMO: Rita

Into biicege ta rûûyî bithimagwa na kîthimi gîitagwa rita.



$$\text{rita } 5 - \text{rita } 3 = \text{rita } 2$$

$$\text{rita } 1 = \frac{1}{2} \text{ rita} + \frac{1}{2} \text{ rita}$$

Kwogu rita 1 = nucu cîrî cia rita

Biûria 1

1. rita 2 = nucu _____
2. rita 7 = nucu _____
3. rita 16 = nucu _____
4. rita 10 = nucu _____
5. rita 12 = nucu _____
6. rita 17 = nucu _____
7. nucu 18 = rita _____

8. nucu 16 = rita _____

9. nucu 6 = rita _____

10. nucu 8 = rita _____

Biûria 2

1. rita 6 + rita 5 =

2. rita 5 + rita 7 =

3. rita 19 + rita 5 =

4. $\frac{1}{2}$ rita + $\frac{1}{2}$ rita =

5. rita 10 + rita 20 =

6. Karigû arî na rita 6 cia magûta ma taa na rita 3 cia beteroori. Arî na maguta magana ata monthe?

7. Cûûcû akamaga îria rîa rita 15 akeendia rita 9 na rîatigara ageekîra gakuruuni. Eekagîra rîgana ata gakuruuni?

8. Kagendo aagûrire tûria twa $\frac{1}{2}$ rita tûnaana, aarî na rita igana cia îria?

9. Mûgambi aarî na cuuba 10 cia $\frac{1}{2}$ rita cia îria. Athîte kwendia aagwa nthî cûûba ciîrî ciakua. Endirie rita igana?

10. Kîrema aarî na ûcûrû bwa rita 10. Aakundia Kîbaara rita 5. Aatigirwe na rita igana cia ûcûrû?

8

Mbia

KÎONGO GÎA KÎTHOOMO: Kûgûra, kûbunjia na gûcookia matigari

A. Menya mbia ciaku

a) Andîka i mbia igana cia mûthere.



ciringi ____



ciringi ____



ciringi ____



ciringi ____



ciringi ____



ciringi ____

b) Ringanîra mbia ino gwîndamîite

1.



i ciringi _____

i ciringi _____

2.



Ciringi _____



Ciringi _____

3.



i ciringi _____

B. Bunjania mbia

1. Mirongo înnâ îrî na makûmi? 4
2. Mîrongo îîrî îrî na itaano igana? ____
3. Îkûmi rîrî na itaano i gana? ____
4. Îkûmi rîrî na ciringi îmwê îmwê igana? ____
5. Mîrongo înnâ îrî na itaano igana? ____
6. Ciringi itaano irî na cumuni igana? ____

C. Mbia cia mathangû

Ciringi mîrongo îtaano



mbere



nyuuma

Ciringi îgana



mbere



nyuuma

Ciringi magana maîrî



mbere



nyuuma

Ciringi magana mataano



mbere



nyuuma

Ciringi ngiri îmwê



mbere

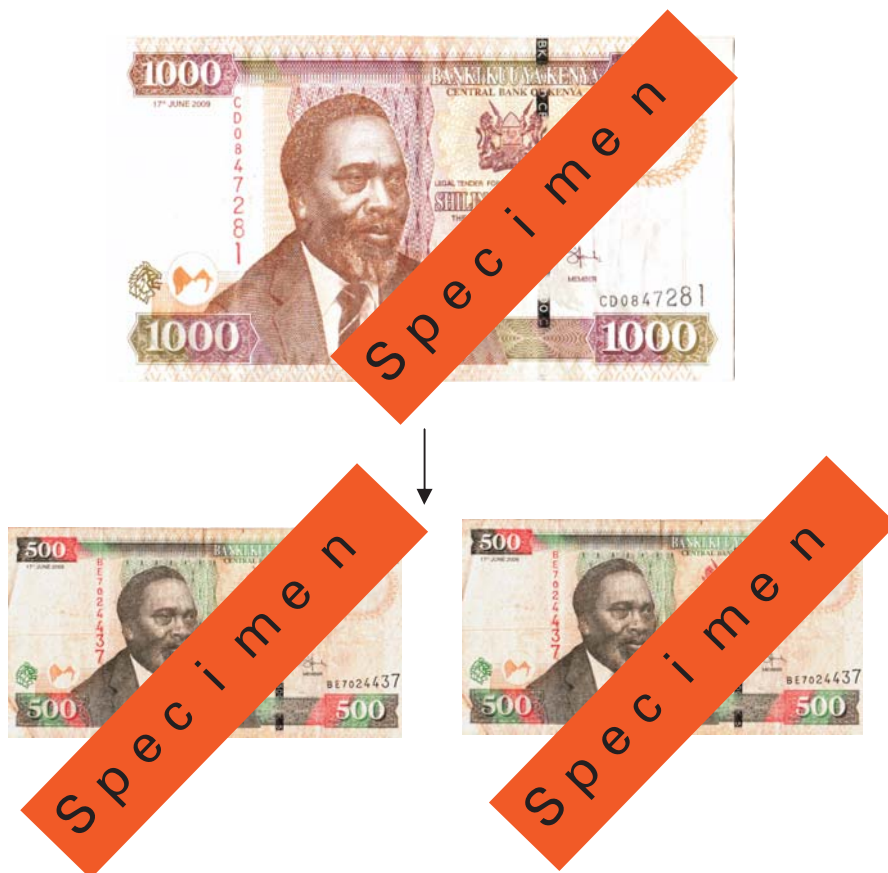


nyuuma

D. **Bunjanja mbia**

1. Ngiri îrî na magana mataano 2
2. Ngiri îrî na magana maîrî maîrî 5

Ngerekano:



3. Ngiri îrî na îgana îgana 10



4. Magana mataano marî na îgana îgana 5



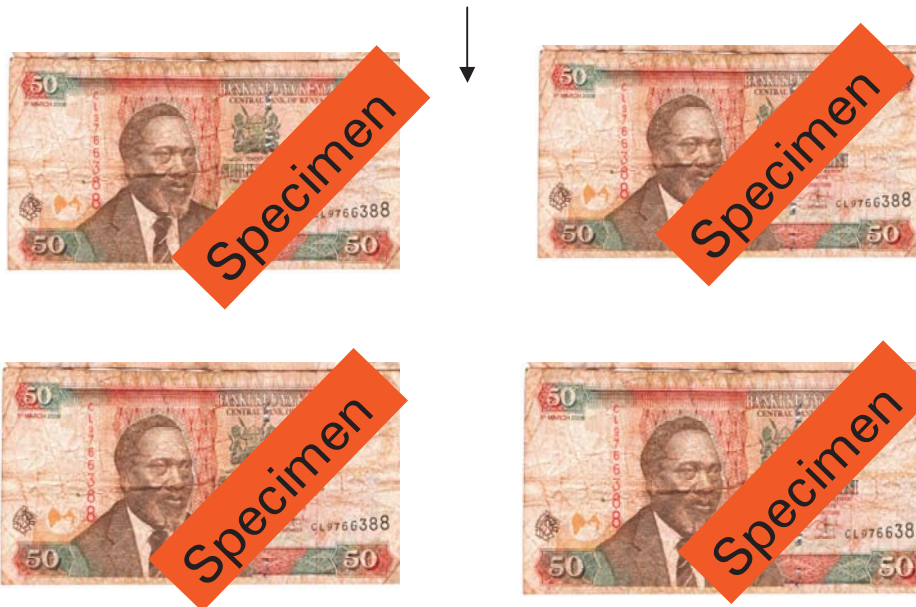
5. Magana mataano marî na mîrongo îtaano itano 10



6. Magana maîrî marî na îgana îgana 2



7. Magana maîrî marî na mîrongo îtaano îtaano 4



Biûria

a) Bunjania mbia

1. Ngiri îrî na Magana mataano _____
2. Ngiri îrî na magana maîrî maîrî _____
3. Ngiri îrî na îgana îgana _____
4. Ngiri îrî na mîrongo îtaano îtaano _____
5. Magana mataano marî na îgana îgana _____
6. Magana maîrî marî na mîrongo îtaano îtaano _____
7. Magana mataano marî na mîrongo îtaano îtaano _____

b) I mbia igana?

1.



i ciringi _____

2.



i ciringi _____

3.



i ciringi _____

4.



i ciringi _____

5.



i ciringi _____

6.



i ciringi _____

7.



i ciringi _____

8.



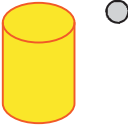
i ciringi _____

9.



i ciringi_____

Kûringanîra na kûruta

 mbîrîka = ciringi 80	 njakeeti = ciringi 50	 gîkombe = ciringi 10
 îkûyû = ciringi 15	 îkome = ciringi 10	 îrenge = ciringi 5
 mûtûngi = ciringi 70	 mwaburî = 30	 kîburî = ciringi 40

Ngerekano:

into

ciringi

kîburî	4 0
mwaburî	3 0
	<u>7 0</u>

Biûria

a) **into**

ciringi

îkome

1 0

njakeeti

5 0

b) **into**

ciringi

mûtûngi

7 0

njakeeti

8 0

c) **into**

ciringi

îkûyû

1 5

îrengé

5

gîkombe

1 0

d) **into**

ciringi

îkûyû

1 5

îrengé

5

îkome

1 0

njakeeti

5 0

e) **into**

ciringi

mbîrîka

8 0

îrengé

5

îkome

1 0

îkûyû

1 5

f) **into**

ciringi

mûtûngi

7 0

njakeeti

5 0

îrengé

5

gîkombe

1 0

Cookia matigari

Ngerekano

Ndaarî na ciringi 2 0 0

Ndagûra îkûyû, îrengé, na îkome - 3 0

Ndatigaria 1 7 0

1. Ndaarî na ciringi 1 5 0

Ndagûra mbîrîka, na njakeeti - 1 3 0

Ndatigaria _____

2. Kîrema aarî na ciringi 50.

Aagûra gîkombe ciringi 10, îrengé ciringi 5, na îkome ciringi 10.

Akûrîa aatigariirie ciringi igana?

3. Kabûri aarî na ciringi 500.

Aagûra njakeeti ciringi 50, mbîrîka ciringi 80, îkome ciringi 10, îkûyû ciringi 15, na kîburî ciringi 40.

Akûrîa aatigariirie ciringi igana?

Ringanîra mbia

Cumuni n'ya mang'otore mataano.

Kîng'otore i kîa ndururu ciîrî. Ciringi îmwê n'ya mang'otore îkûmi.

ciringi mang'otore

$$\begin{array}{r} 1. \quad 5 \quad 40 \\ + 3 \quad 20 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 2. \quad 12 \quad 25 \\ + 7 \quad 30 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 3. \quad 31 \quad 55 \\ + 20 \quad 35 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 4. \quad 40 \quad 65 \\ + 58 \quad 05 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 5. \quad 45 \quad 50 \\ + 96 \quad 35 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 6. \quad 60 \quad 20 \\ + 80 \quad 35 \\ 37 \quad 25 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 7. \quad 130 \quad 40 \\ + 80 \quad 75 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 8. \quad 105 \quad 65 \\ + 193 \quad 20 \\ \hline \end{array}$$

9. Karîmi arî na ciringi 100 na mang'otore 75. Gîtonga aarî na ciringi 194 na mang'otore 35.

Bonthe baarî na mbia igana?

10. Mîtambo aarî na ciringi 27 na mang'otore 65. Karaûki aarî na ciringi 18 na mang'otore 85. Nthîga aarî na ciringi 168 na mang'otore 80.

Bonthe baarî na ciringi igana?

Kûrutithania mbia

	ciringi	mang'otore		ciringi	mang'otore
1.	52	80	2.	7	60
	- 23	35		-	80

	ciringi	mang'otore		ciringi	mang'otore
3.	1	00	4.	25	50
	-	15		- 11	50

ciringi mang'otore

$$\begin{array}{r} 5. \quad 93 \quad 70 \\ - 6 \quad 10 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 6. \quad 110 \quad 45 \\ - 85 \quad 15 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 7. \quad 15 \quad 15 \\ - 8 \quad 15 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 8. \quad 168 \quad 00 \\ - 96 \quad 85 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 9. \quad 197 \quad 95 \\ - 163 \quad 25 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 10. \quad 185 \quad 75 \\ - 75 \quad 60 \\ \hline \end{array}$$

ciringi mang'otore

$$\begin{array}{r} 11. \quad 97 \quad 25 \\ - 63 \quad 25 \\ \hline \end{array}$$

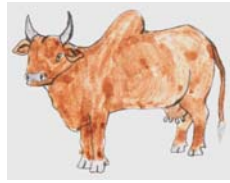
ciringi mang'otore

$$\begin{array}{r} 12. \quad 85 \quad 75 \\ - 75 \quad 75 \\ \hline \end{array}$$



wiribarû

ciringi 1,200



ng'ombe

ciringi 8,000



mwaburî

ciringi 280



ngita

ciringi 3,000



ngûkû

ciringi 350



njakeri

ciringi 2,000

$$\begin{array}{r}
 1. \text{ wiribarû ciringi} \quad 1,200 \\
 \text{njakeri} \quad + \quad \underline{2,000} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2. \text{ ng'ombe ciringi} \quad 8,000 \\
 \text{ngûkû} \quad + \quad \underline{350} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3. \text{ ngita ciringi} \quad 3,000 \\
 \text{mwaburî} \quad + \quad \underline{280} \\
 \hline
 \end{array}$$

4. njaketi ciringi	2,000
wiribarû ciringi	1,200
ngûkû ciringi	<u>+ 350</u>

5. ng'ombe ciringi	8,000
ngita ciringi	2,000
wiribarû ciringi	<u>+ 1,200</u>

6.

(i) Kîbaara aarî na ciringi	5,000
aagûra ngita na ciringi	<u>- 3,000</u>
aatigariirie ciringi	_____

(ii) Mûthee aarî ciringi	7,865
aagûra njakeeti na ciringi	<u>- 2,000</u>
aatigariirie ciringi	_____

(iii) Mûnene aarî na ciringi 3,800, aagûra ngûkû ciringi 350, njakeeti 2,000, wiribarû 1,200. Aatigariirie mbia igana?

(iv) Kuuma kîrî ciringi ngiri 10,500, Kaûme aagûrire ngo'mbe na ciringi 8,000, ngûkû na ciringi 350, na ngita ciringi 2,000.

I mbia igana aatigariirie?

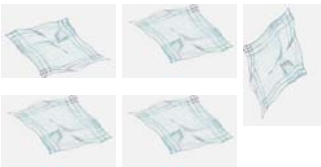
(v) Mwendwa aatûmîre mbia igana kûgûra mwaburî, njakeeti, na wiribarû?

(vi) Mûthoni aagûrire ngita, ng'ombe, na ngûkû. Aarî na ciringi 12,000. Aatigariirie mbi akûrîa mbia cia into bibu?

Kuugithania maïta

Kaniini aathiire thokoni aagûra into mwanya mwanya eenûka nabio.

 gîcanûri ciringi 8	 cogici ciringi 7	 mûcaaki wa magego ciringi 5
 gatambaa ciringi 6	 cûûria ciringi 20	 gîciko ciringi 9

1.	Kaniini aagûrire	Kaniini arîire
		ciringi $8 \times 2 = 16$
		ciringi $5 \times 8 =$
		ciringi $7 \times 7 =$
		ciringi $9 \times 4 =$
		ciringi $6 \times 5 =$
		ciringi $20 \times 3 =$

2. ciringi $5 \times 3 =$

4. ciringi $8 \times 8 =$

6. ciringi $8 \times 5 =$

8. ciringi $10 \times 4 =$

10. ciringi $10 \times 8 =$

3. ciringi $9 \times 4 =$

5. ciringi $7 \times 9 =$

7. ciringi $6 \times 7 =$

9. ciringi $7 \times 2 =$

Ngerekano:

ciringi mang'otore

6 40 (i) Ugithia mang'otore $40 \times 4 = 160$

x 4 Andika mang'otore 60 ukamate

25 60 ciringi imwe.

(ii) Ugithia ciringi $6 \times 4 = 24$

Ongeera ciringi ira ukamatire kir 24 ikinye 25.

Ngûgi ya kûruta

1. ciringi mang'otore

5 30
x 3

2. ciringi mang'otore

9 40
x 6

3. ciringi mang'otore

7 45
x 5

4. ciringi mang'otore

8 25
x 3

5. ciringi mang'otore

5 80
x 7

6. Mwarimû anenkeere aana 8 ciringi 8 na mang'otore

65 wa kaana.

Aabanenkeere mbeça igana cionthe?

7. Mûtugi aarî na makome îkûmi na maîrî.

Îkome rîmwe eendagia ciringi 6.

Aagwatite mbia igana cionthe?

8. Njerû aagûrire thaani 4 ndukaani.

Îmwe aagûraga ciringi 10 na mang'otore 30.

Arîire mwene nduka mbia igana cionthe?

Kûgaa mbia

Ngerekano:

Kîrimi aagûrire ndigû 8,

aarîa ciringi 64.

Ndigû îmwe yaagûragwa mbia igana?

Aarîire ciringi = 64

namba ya ndigû = 8

ûgûri wa ndigû îmwe = $64 \div 8$

ciringi = 8

- | | |
|--------------------------|---------------------------|
| 1. ciringi $30 \div 6 =$ | 2. ciringi $72 \div 9 =$ |
| 2. ciringi $54 \div 6 =$ | 4. ciringi $81 \div 9 =$ |
| 5. ciringi $27 \div 3 =$ | 6. ciringi $48 \div 6 =$ |
| 7. ciringi $28 \div 4 =$ | 8. ciringi $63 \div 7 =$ |
| 9. ciringi $32 \div 8 =$ | 10. ciringi $40 \div 5 =$ |

11. Njerû aanenkanîre ciringi 54 akîrîa mabuku 6.

Îbuku rîmwe aagûraga mbia igana?

12. Kagendo aatûmîre ciringi 49 kûrîa mbuuti 7.

Mbuuti îmwewe yaumaga mbia

13. Karîîthi aarî na nderemeende 72.

Agaîra aana keenda. Wa kaana karîre nderemeende igana?

14. Kîmotho aarî na tûramu 45. Agaîra aana 7.

Wa mwaana aerwe tûramu tûgana?

Kûgaa mbia

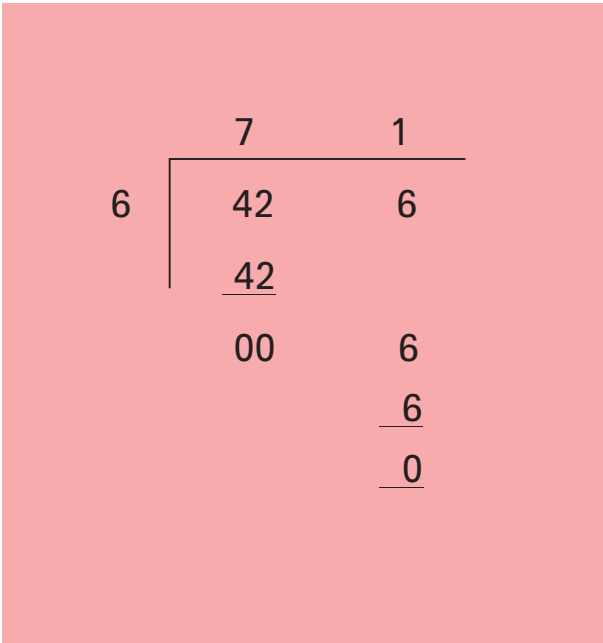
Ngerekano:

Mûthoni aanenkanîre ciringi 42 na mang'otore 6 kîrî twana 6.

Wa kaana kagwataga mbia igana?

ciringi $42 \div 6 =$ ciringi 7

mang'otore $6 \div 6 =$ kîng'otore 1



Handwritten long division of 42 by 6 on a pink background. The divisor 6 is on the left. The dividend 42 is written inside the division bar. The quotient 7 is written above the bar. The product 42 is written below the dividend, and the remainder 00 is written below the product. The division is shown as:

$$\begin{array}{r} 7 \\ 6 \overline{) 42} \\ \underline{42} \\ 00 \end{array}$$

1. ciringi 18 mang'otore $8 \div 2 =$

2. ciringi 45 mang'otore $5 \div 5 =$

ciringi (ci) mang'otore (ma)

3.

	ci	ma
6	48	6

4.

	ci	ma
5	30	5

5.

	ci	ma
8	40	8

6.

	ci	ma
5	20	8

7. Kîmathi arîire ciringi 40 na mang'otore 5 akîgûra mabuku 5. Wa îbuku rîaumaga ciringi igana?

8. Kawîra aatûmîire ciringi 18 na mang'otore 3 akîgûra mîbiira îthatû. Wa mûbiir a waumaga mbia igana?

9. Kînyua aagûrire tûramu 4 ciringi 48 na mang'otore 4. Karamu kamwe kaumaga mbia igana?

10. Kanoti aagûrire tûtambaa 6 ciringi 72 na mang'otore 6. Gatambaa kamwe i ciringi igana?

9

Thaa

KÎONGO GÎA KÎTHOOMO: Mîeri ya mwanka

A. Kûgarûra ntugû itwîka biumia na biumia bitwîka mîeri

1. Ntugû cia kiumia

ncuma piri	ncuma tatû	ncuma taano	ncuma inne	ncuma	—	—
1	—	—	3	—	5	7

2. Mîeri ya mwanka

Ûyûria ntugû cia mîeri

Riitwa rîa mweri

Ntugû cia mweri

a. mûgaano

31

b. mûndondo

28/29

c. mûcucuma

—

d. mwirîngo

—

e. mûkathara

—

f. mûthaano mûcege

30

g. mûkûngûgû

—

h. mûthanthatû

—

i. mûgwanja	_____
j. nyeenye	31
k. keenda	30
l. îkûmi	_____

3. Ntugû cia kiumia

Kiumia kîmwe i gîa ntugû mûgwanja.

Biumia bina birî na ntugû $4 \times 7 = 28$

Î ntugû igana irî kîrî biumia:

- | | | |
|----------------|------------|-------------|
| a) bithatû | b) bitaano | c) mûgwanja |
| d) biîrî | e) binaana | f) îkûmi |
| g) bithanthatû | h) keenda | |

Ngerekano:

I ntugû igana irî kîrî biumia biîrî na ntugû ithanthatû?

$$\begin{aligned} \text{Biumia biîrî} &= 2 \times 7 = 14 + 6 \\ &= 20 \end{aligned}$$

I ntugû igana irî kîrî biumia :

- a) bithatû na ntugû cîrî? ____
- b) binna na ntugû inya? ____
- c) bîrî na ntugû itaano? ____
- d) bitaano na ntugû cîrî? ____
- e) binaana na ntugû cîrî? ____
- f) bitaano na ntugû inya? ____
- g) keenda na ntugû ithatû? ____

Ngerekano:

I biumia bigana birî kîrî ntugû mîrongo îna na keenda?

ntugû 7 = kiumia kîmwe

ntugû 49 = $49 \div 7 = 7$

= biumia 7

Tara i biumia bigana birî kîrî ntugû

- a) 28 b) 35 c) 63 d) 70
- e) 14 f) 56 g) 42 h) 28

B. Kûringanîra

Ngerekano:

biumia	ntugû
3	2
+ 5	3
8	5

biumia	ntugû
1	3
+ 4	4
6	0

biumia	ntugû
a) 2	3
+ 3	2

biumia	ntugû
b) 4	3
+ 1	2

biumia	ntugû
c) 5	2
+ 5	1

biumia	ntugû
d) 0	6
+ 4	0

biumia	ntugû
e) 8	5
+ 7	1

biumia	ntugû
f) 5	5
+ 4	2

g) biumia ntugû h) biumia ntugû

8	2	7	3
+ 1	4	+ 2	3

i) Mûgeni akarire ûtîrini biumia 2 na ntugû 3.

I ntugû igana aakarire ûtîriini?

j) Ndakarire wa cûcûcû ntugû keenda.

Ndakara kwa mûruayia ntugû 12.

I biumia bigana ntaarî mûciî?

C. Kûruta

a) biumia ntugû b) biumia ntugû

6	3	4	2
-2	1	- 3	0

c) biumia ntugû d) biumia ntugû

$$\begin{array}{r} 10 \quad 4 \\ - 8 \quad 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 5 \\ - 4 \quad 4 \\ \hline \\ \hline \end{array}$$

e) biumia ntugû f) biumia ntugû

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

$$\begin{array}{r} 6 \quad 3 \\ - 3 \quad 3 \\ \hline \\ \hline \end{array}$$

g) biumia ntugû h) biumia ntugû

$$\begin{array}{r} 14 \quad 4 \\ - 9 \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 6 \\ - 2 \quad 4 \\ \hline \\ \hline \end{array}$$

B. Mathaa

1. Kûringanîra na kûrutithania

Kûringanîra na kûrutithania mathaa.

Îthaa rîmwe 1 = ndarîka mîrongo 60

$$1 = 60$$

Ndarîka 1 = cekondi 60

$$1 = 60$$

mathaa	ndarîka
2	20
+ 3	25
5	45

a) mathaa ndarîka **b)** mathaa ndarîka

5	35	9	25
+ 6	15	+ 2	25

c) mathaa ndarîka **d)** mathaa ndarîka

8	40	3	50
+ 3	10	+ 4	05

e) mathaa ndarîka **f)** mathaa ndarîka

4	20	2	20
+ 3	30	+ 4	20

2. Ruta

Ngerekano:

mathaa	ndarîka
11	45
- 3	23
8	22

mathaa	ndarîka
1. 5	55
- 3	15

mathaa	ndarîka
2. 10	32
- 9	22

ma	nda
3. 12	23
- 8	10

ma	nda
4. 2	38
- 2	30

ma	nda
5. 10	52
- 4	20

ma	nda
6. 6	36
- 4	24

ma	nda
7. 7	47
- 2	42

ma	nda
8. 8	55
- 4	50

$$\begin{array}{r} 9. \quad 11 \quad 58 \\ - 7 \quad 58 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 14 \quad 28 \\ - 7 \quad 14 \\ \hline \end{array}$$

3. Kûthooma kwandîka na kûgweta mathaa



i thaa _____



i thaa _____



i thaa _____



i thaa _____



i thaa _____

4. Thooma na gwandîke i thaa igana



i thaa _____



i thaa _____



i thaa _____



i thaa _____



i thaa _____

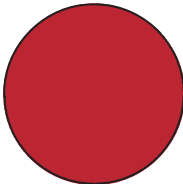
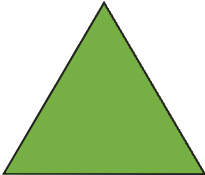
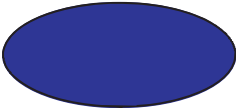
5. Ringa mbica cia thaa ûkîonanagia thaa ino

- a) thaa îmwê îkûrûkîtie ndarîka îkûmi
- b) thaa ithatû na ndarîka mîrongo yîrî
- c) thaa inyaanya na ndarîka itaano
- d) thaa inyaanya na nucu
- e) thaa kûmi irûûngi
- f) thaa ciîrî itigeeie ndarîka îkûmi
- g) thaa ithatû itigeeie ndarîka îkûmi na itaano
- h) thaa kûmi na ciîrî ciongwa
- i) thaa thita itigeeie ndarîka mîrongo yîrî na itaano
- j) thaa kûmi itigeeie ndarîka îkûmi na itaano

KÎONGO GÎA KÎTHOOMO: Mîcooro mwanya mwanya

A. Kûbaanga mîcooro mwanya mwanya

1. Ringithania mbica ino na mariîtwa macio

Mbica	Riîtwa
	koona ithatû
	mûraba
	kîthiûrûûrî îkome
	kîthiûrûûrî
	mûraba mûraaya



2. Gweta ûrîona:

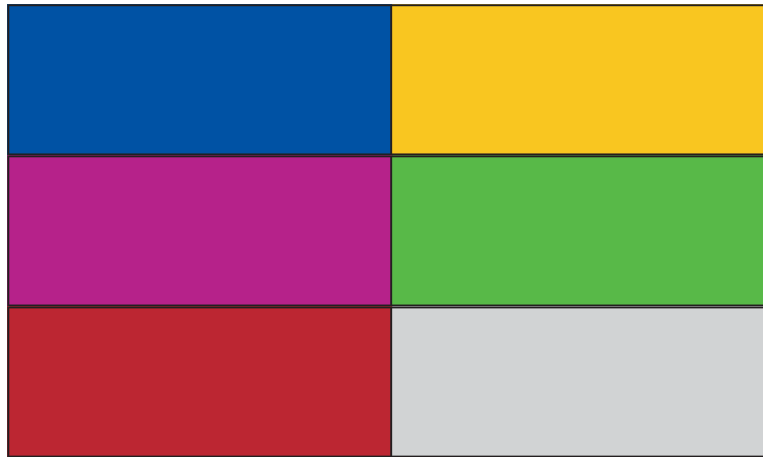
- a) Mîraba îgana?
- b) Koona ithatû igana?
- c) Mîraba mîraaya îgana?

3. Kûbanga mîcooro



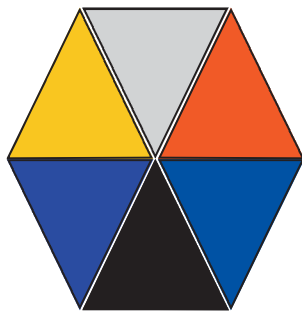
- a) I mîraba mîraaya îgana îrî mûcooroni ûyû?

b) I mîraba mîraaya îgana îrî kiri mûcooro ûyû?

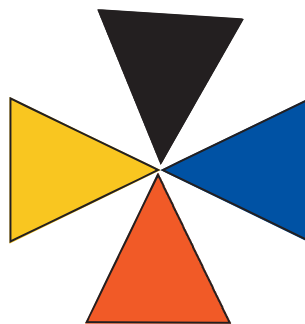


c) Banga mûcooro mwanya mwanya ûgîtûmagîra

koona ithatû



(i)



(ii)

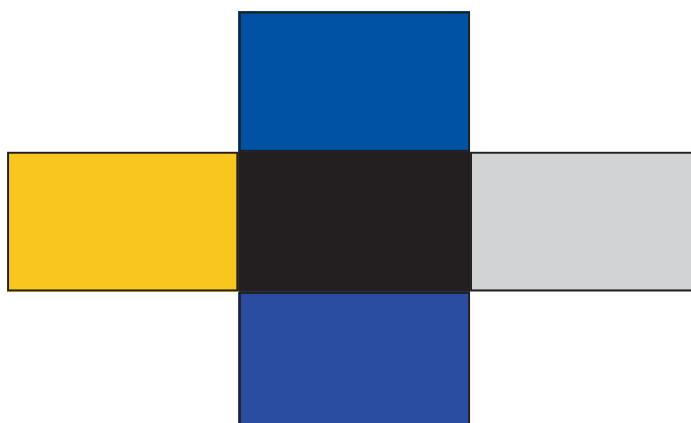
d) I koona ithatû igana irî kîrî wa kîra mûcooro

4. Raitha mîcooro îno na ucookie bîuria:

(i)



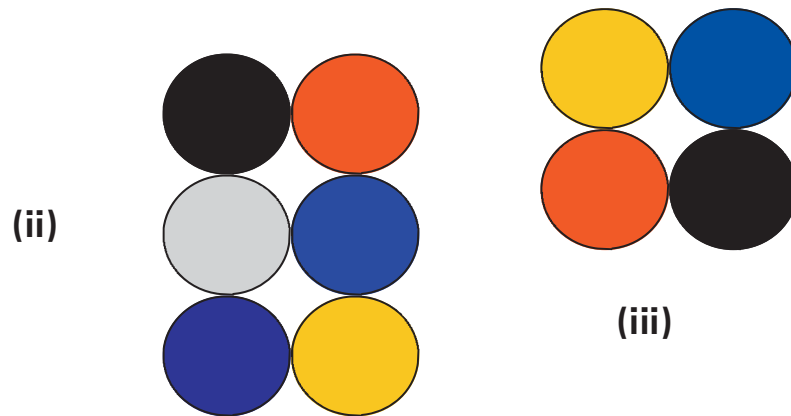
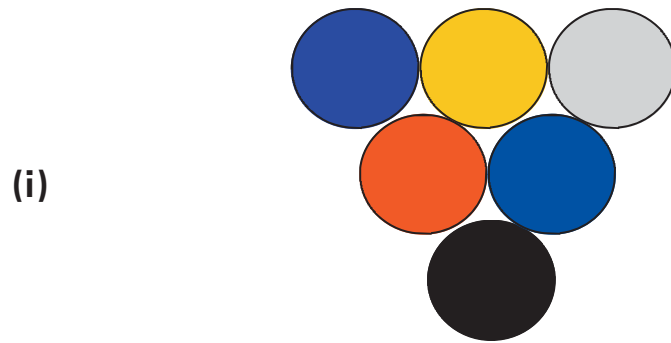
(ii)



a) I mîraba îgana ûkwona wa kîra mîcooro?

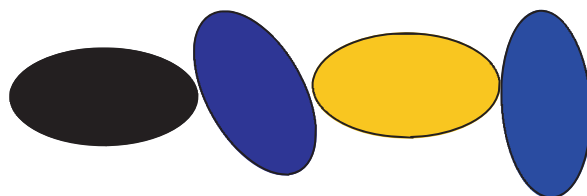
b) Banga mîcooro mwanya mwanya ûgîtûmagîra mîraba îno.

5. Tûmîra kîthîûrûûrî gûcookia biûria



a) N'ithîûrûûrî bigana birî kwa kîra mûcooro

6. Tûmîra ithîûrûûrî îkome bibi gûcookia biûria



a) N'ithîûrûûrî îkome bigana ûkwona mûcooroni ûyû?

**Mathaabu
Kîraci kîa Bithatû
Îbuku rîa Mûrutwa**

ISBN: 9966-00-212-X

Published by

BTL (E.A.)

P.O. Box 44456 Nairobi, Kenya