

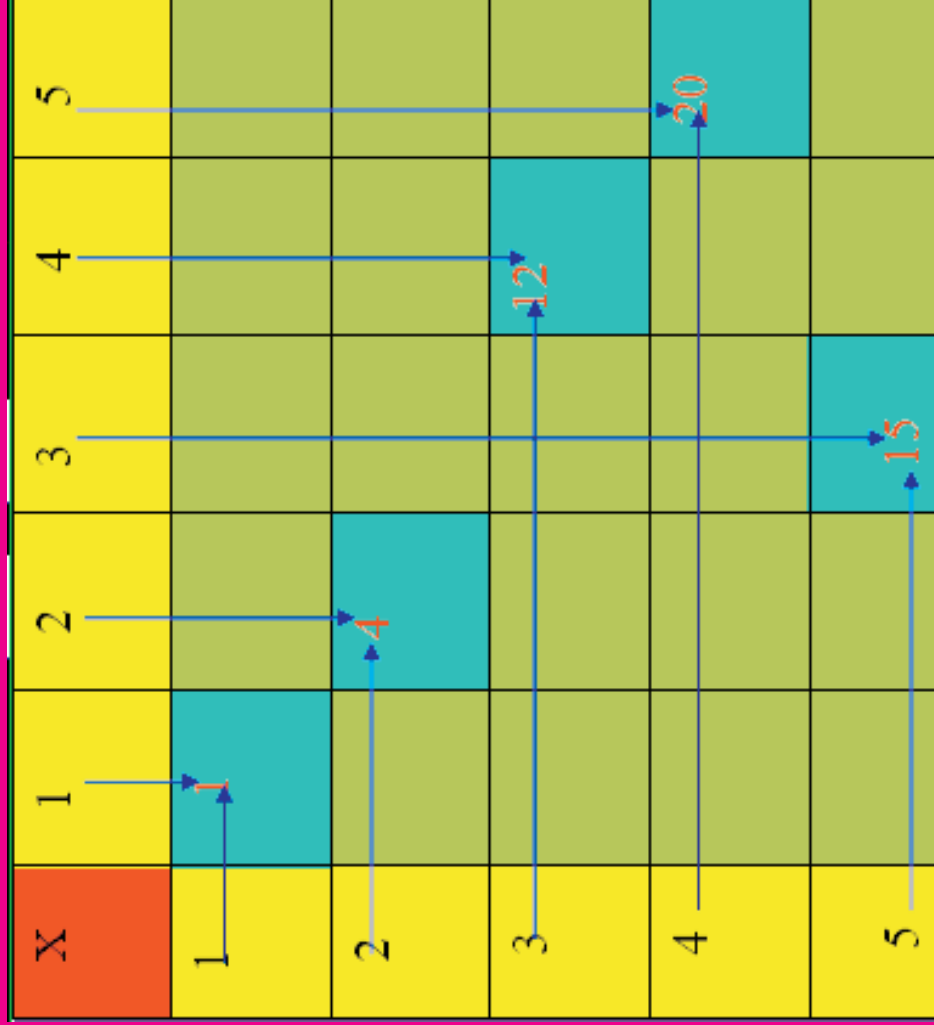
Mathaabu
Kîraci kîa Bîîrî
Îbuku rîa Mwarimû



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MATHAABU KÎRACI KÎA BÎÎRÎ

Îbuku rîa Mwarimû



Mathematics Guide
in Tharaka Language

MATHAABU

ÎBUKU RÎA MWARIMÛ RÎA KÎRACI

KIA BIÎRÎ

Standard
2
Teacher's Guide

Mathematics
in Tharaka Language

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PREFACE

This Standard Two Mathematics Teacher's Guide is written in accordance with the Standard Two Syllabus by the Kenya Institute of Education (KIE). The book is divided into 4 units. Each unit deals with a major topic. These 4 main topics that this book covers are: ***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 Kĩĩtharaka 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 Kĩĩtharaka but they use examples familiar to Tharaka children.

This is a teacher's guide that has instructions to the teacher on how to disseminate the contents of the 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 the Kĩĩtharaka series. Among these are the Tharaka MTE Writers Panel, 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 mwarimû rîa Mathaabu rîa Kîraci Kîa Biîrî rîandîkîitwe rîkîthiingatagîra sîrabasi ya Kîraci kîa Biîrî ya 'Kenya Institute of Education' (KIE). Rîgaûkanîitue icuncî 4. Na wa kîra gîcuncî kîrî na kîthoomo gîakîo. Ithoomo bira birî îbukuuni rîrî i: ***Naamba, Kûriinganîra, Kûthima*** na ***Mîcooro***. Ithoomo bibi ibigaûkanîitue biauma reeconi inyiingî.

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'î rwa Kîthoomo atî aana ba iraci bia mwambîirio babatîirue barutanwa 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 ira aana ba Tharaka bamenyanîrîtie nacio. Rîrî n'îbuku rîa mwarimû rîra rîrî na mataaro ma kwonia mwarimû bûra aûmba kûrutana mantû mara marî îbukuuni rîa mûrutwa.

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, aruti ngûgî ba BTL Tharaka, anene ba kîthoomo ndeni ya Ndicitîrîti cia Tharaka ya Naiti na ya Neegûrû, antû bara bateethagîiria na mbia, BTL na bangî baingî.

Ingûcookeria antû bonthe bara bateetheereetie na njîra mwanya mwanya, wandikî bwa îbuku rîrî nkatho inyiingî 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 2 Mathematics teacher's book in Kĩtharaka 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 functional and acceptable orthography (writing system).

It is my hope that this book will lay a strong foundation to enable teachers to teach 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

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GÎCUNCÎ KÎA MBERE: Naamba i mbûyûru

Mworooto:

Mûthiani wa gîcuncî gîkî, mûrutwa akaûmba:

- a) gûtara, kûthooma na kwandîka naamba îtagûkûrûka 999
- b) kwonania kaanya kara naamba îrûgamîite ndeni ya makûmi kana magana
- c) kûthooma na kwandîka naamba na mariîtwa mwanka 99.

A. Gûtara

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba gûtara naamba mwanka 99.

Îgiita: Reconi itaano (5)

Mariîtwa ma gîtûmi: gûtara, kûûyûria, ira ciûrîite

Inti bia kûthooma/kûthoomithia:

- tûmîî, mûraba ûcoreetwa catiniini, kîbaaû.

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimû atongorie arutwa kûbaanga tûmîî mîthûûmba ya îkûmi îkûmi.
2. Mwarimû oonanie mûraba ûcoreetwe catiini.
3. Mwarimû oonanie gûtara mwanka 99 kîbaaûni.

1	2	3	4	5	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	

Macookio ma biûria

Naamba ira ciûrîite

32	33	34	35	36	37	38	39	40	41
42	43	44	45	46	47	48	49	50	51

76	77	78	79	80	81	82	83	84	85
86	87	88	89	90	91	92	93	94	95

- a) 33 34 **35 36** 37 38 39 40
- b) 60 61 **62 63** 64 **65 66** 67
- c) 81 **82** 83 84 **85 86 87** 88 89
- d) 90 **91 92 93** 94 **95 96 97 98** 99

Raitha: Îbuku rîa mûrutwa karataati ga 1-2

B. Kaanya kara naamba îrûgamîrîite

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kwonania kaanya kara naamba îrûgamîrîite.

Îgiita: Reconi ithanthatû (6)

Mariîtwa magîtûmi:

kaanya, îrûgamîrîite.

Into bia kûthooma/kûthoomithia:

- tûmîtî, matigari, makûmi

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimû atongorie arutwa kûbaabga tûmîtî mîthûmba ya makûmi makûmi na kwoga.
2. Mwarimû atongorie arutwa kwathûrana makûmi na matigari
3. Arutwa babaange naamba mîthûmba ya makûmi mwanya na matigari mwanya.
4. Arutwa bauge i makûmi magana na i matigari magana marî wa kîra naamba.

Ngerekano:

$$1 \text{ îkûmi rîmwê} + 9 \text{ matigari keenda} = 19$$

$$2 \text{ makûmi maîrî} + 5 \text{ matigari mataano} = 25$$

$$3 \text{ makûmi mana} + 8 \text{ matigari manaana} = 48$$

$$7 \text{ makûmi mûwanja} + 9 \text{ matigari keenda} = 79$$

$$9 \text{ makûmi keenda} + 6 \text{ matigari mathanthatû} = 96$$

$$3 \text{ makûmi mathatû} + 4 \text{ matigari mana} = 34$$

$$6 \text{ makûmi mathanthatû} + 7 \text{ matigari mûwanja} = 67$$

$$8 \text{ makûmi manaana} + 7 \text{ mûwanja matigari} = 87$$

Macookio ma biûria:

21 = 2 makûmi + 1 matigari

78 = 7 makûmi + 8 matigari

48 = 4 makûmi + 8 matigari

36 = 3 makûmi + 6 matigari

99 = 9 makûmi + 9 matigari

52 = 5 makûmi + 2 matigari

Raitha: Îbuku rîa mûrutwa karataati ga **2 - 3**

C. Kûyûrîria naamba kana rwano**Mworooto:**

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kwandîka naamba na mariîtwa kana mariîtwa na naamba.

Îgiita: Reconi inyaanya (8)

Mariîtwa ma gîtûmi:

Rwano, ringithania.

Into bia kûthooma/kûthomithia: kandi cia naamba, cati.

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimu oonie arutwa cati ya naamba.
2. Garura wa kandi arutwa bakîthoomaga riîtwa rîa naamba înu.
3. Mwarimû aambe cati îrî na naamba na mariîtwa macio na arutwa bathoome îmwe kwa îmwe.
4. Mwarimû aandîke naamba mbarî îmwe kîbaaûni na mariîtwa mbarî îra yîngî marigicanîite.
5. Arutwa bathimithanie naamba na riîtwa rîayo.
6. Mwarimû aandîke mariîtwa ma naamba kîbaaûni
Arutwa i baandîe mariîtwa ma naamba inu.
7. Mwarimû aandîke naamba cia makûmi arutwa baandîke mariîtwa macio.
8. Mwarimû aandîke mariîtwa ma naamba cia makûmi arutwa baandîke naamba ciongwa.

Macookio ma biûria: karatati ga 5

16 - îkûmi na ithanthatû

18 - îkûmi na inyaanya

14 - îkûmi na inya

12 - îkûmi na ciîrî

8 - inyaanya

- inyaanya

- îkûmi na inyanya

- keenda

Karatati ka 7

mîroongo mûgwanja - 70

mîroongo îthatû - 30

mîroongo îthanthatû - 60

mîroongo îna - 40

mîroongo îtaano - 50

40 - mîroongo îna

50 - mîroongo îtaano

80 - mîroongo înaana

60 - mîroongo îthanthatû

20 - mîroongo îîrî

30 - mîroongo îthatû

D. Thooma na waandike na rwano**Mworooto:**

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûthooma na kwandîka naamba na rwano.

Îgiita: Reconi ithanthatû (6)

Mariîtwa ma gîtûmi: Rwano.

Into bia kûthooma/kûthoomithia:

Kaandi cia naamba, cati, kîbaû.

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimû oonie arutwa cati îkîonanagia riîtwa rîa naamba, makûmi na matigari na rwano rwa naamba înu.
2. Mwarimû aereece arutwa kîbaûni na abarutane kûthooma na kwandîka rwano rwa naamba mwanya mwanya.

Macookio ma biûria:

i)

Riîtwâ na naamba	Makûmi na matigari	Rwano rwa naamba
mîroongo yîîrî na inya	makûmi 2+ matigari 4	24
mîroongo îthatû	makûmi 3 + matigari 0	30
mîroongo inaana na îmwê	makûmi 8 + matigari 1	81
mîroongo înna na inyaanya	makûmi mana 4+ matigari 8	48
mîroongo mûgwanja na itaano	makûmi 7+ matigari 5	75

Raitha: îbuku rîa mûrûtwa karataati ga 5-9**E. Kûthooma kwandîka naamba na mîgambo****Mworooto:**

Mûthiani wa kîthoomo gîkî, mûrutwa kaûmba kwandîka naamba na mîgambo.

Îgiita: Reconi inya (4)**Mariîtwâ ma gîtûmi:**

Rwano, mîroongo, mîgambo.

Into bia kuthooma/kûthoomithia:

Rwano, mîroongo, mîgambo.

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimû arrikanie arutwa kwandîka naamba na mariîtwa.
2. Mwarimû aambe cati îrî na naamba cia makûmi na mariîtwa macio arutwa bathoome.
3. Mwarimû aandîke naamba igana ûna kaîbaûni itarî cia makûmi arutwa bathoome bakîûyûragîria ira itarî mbûyûrîrie, ta ûgû:
76 - mîroongo mûgwanja na ithanthatû
70 - mîroongo mûgwanja
48 - mîroongo înnâ na inyaanya
4. Mwarimû oonie arutwa kûrî na twanya twa makûmi na îmweta ta ûgû:
76 = 70 na 6 = 76
5. Arutwa barute wîra mabukuuni mao karataati ga 10

Macookio ma biûria:

85- mîroongo înaana na itaano
46 - mîroongo înnâ na ithanthatû
28 - mîroongo îîrî na inyaanya
75 - mîroongo mûgwanja na itaano
66 - mîroongo îthanthatû na ithanthatû
34 - mîroongo îthatû na inya

ii) Ngerekano:

îkûmi na keenda _____ 19

mîroongo yîrî na inya _____	24
mîroongo îtaano na keenda _____	59
mîroongo îtû na ithatû _____	33
mîroongo keenda na ithanthatû _____	96
mîroongo înnâ na itaano _____	45

Raitha: îbuku rîa mûrutwa karataati ga 10

GÎCUNCÎ KÎA BIÎRÎ: Gûtaranîria

Mworooto:

Mûthiani wa gîcuncî gîkî, mûrutwa akaûmba

- a)** gûtaranîria naamba itagûkûrûka 999 ûgîkamataga Kamwe
- b)** kûringanîra na kûrutithania naamba ithatû ûtagûkamata kana kûroomba
- c)** gûtaranîria kana kûrutithania naamba agîtûmagîra naamba ira ikûûra
- d)** kûringithania naamba maita itaano mwanka maita mataano
- e)** kûringithania naamba maita mwania keenda na îkûmi.
- f)** kûgaîra naamba itagûkûrûka 25 na naamba itagûkûrûka 5 gûtarî matigari.
- g)** kûmenya na kwathûrana mataane ma naamba cia kûruta, kûringanîra, kûgaîra na kûringa maita.
- h)** kûringanîra na kûrutithania naamba ithatû ûgîkamataga na ûkîrombaga

A. Gûtaranîria

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa kaûmba gûtaranîria naamba itagûkûrûka 999.

Îgiita: Reconi ithatû (3)

Mariîtwa ma gîtûmi: gûtaranîria, kwoganîria, kûreeta amwe

Into bia kûthooma/kûthoomithia: tûmîtî, twiga, twaara

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimû atongoreerie arutwa kûbaanga tûmîtî tûra tûkonganiîrua tûrî mwanya mwanya.
2. Tûmîtî tûreetwe amwe.
3. Arutwa batara tûrî amwe na buge i tûgana

Macookio ma biûria: karataati ka 11

2	5	3	9	7	9
+ 5	+ 3	+ 6	+ 4	+ 9	+ 1
<u>7</u>	<u>8</u>	<u>9</u>	<u>13</u>	<u>16</u>	<u>10</u>

4	2	6	8	7	0
+ 4	+ 6	+ 6	+ 8	+ 7	+ 6
<u>8</u>	<u>8</u>	<u>12</u>	<u>16</u>	<u>14</u>	<u>6</u>

5	2	7	5	6	8
+ 0	+ 9	+ 8	+ 7	+ 6	+ 9
<u>5</u>	<u>11</u>	<u>15</u>	<u>12</u>	<u>12</u>	<u>17</u>

B. Kûrutithania

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûrutithania naamba îmwê kûûma kûrî ciîrî.

Îgiita: Reconi itaano (5)

Mariîtwa ma gîtûmi: kûrutithania, kûgaûra.

Into bia kûthooma/kûthoomithia: tûmiti, twiga, cati.

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimû atongorie arutwa gûtara tûmîti na kûgaûra tûmwê twa tu.
2. Arutwa batara tûmîti tûra tûgûtigara.
3. Arutwa bauge i tûgana tûgûtigara.

Macookio ma biûria: karataati ka 12-13

4	7	8	13	14	15
- 2	- 4	- 5	- 3	- 2	- 8
<u>2</u>	<u>3</u>	<u>3</u>	<u>10</u>	<u>12</u>	<u>7</u>

9	10	9	14	15	16
- 0	- 7	- 8	- 5	- 7	- 5
<u>9</u>	<u>3</u>	<u>1</u>	<u>9</u>	<u>8</u>	<u>11</u>

11	10	13	18	16	18
- 3	- 3	- 4	- 3	- 6	- 8
<u>8</u>	<u>7</u>	<u>9</u>	<u>15</u>	<u>10</u>	<u>10</u>

11	13	13	10	14	18
- 8	- 9	- 3	- 5	- 6	- 7
<u>3</u>	<u>4</u>	<u>10</u>	<u>5</u>	<u>8</u>	<u>11</u>

10	8	16	8	15	14
- 9	- 2	- 4	- 5	- 8	- 7
<u>1</u>	<u>6</u>	<u>12</u>	<u>3</u>	<u>7</u>	<u>7</u>

14	9	7	13	13	16
- 6	- 5	- 3	- 5	- 4	- 5
<u>8</u>	<u>4</u>	<u>4</u>	<u>8</u>	<u>9</u>	<u>11</u>

13	10	11	17	13	17
- 6	- 2	- 6	- 8	- 6	- 8
<u>7</u>	<u>8</u>	<u>5</u>	<u>9</u>	<u>7</u>	<u>9</u>

Ūyūrîria mûraba ūyû wa gûtaranîria karataati ka 14

+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18

Kûringanîria amwe na kûrutihania. Karataati 15-16

$2 + 6 = 8$	$10 - 7 = 3$	$0 + 2 = 2$	$3 - 2 = 1$
$3 + 4 = 7$	$8 - 5 = 3$	$2 + 8 = 10$	$7 - 5 = 2$
$5 + 9 = 14$	$6 + 3 = 9$	$6 + 6 = 12$	$15 - 6 = 9$
$8 + 0 = 8$	$4 - 0 = 4$	$8 + 5 = 13$	$8 + 9 = 17$ ← Error in pupil's book. Correct minus to plus.
$6 + 4 = 10$	$4 - 4 = 0$	$9 + 8 = 17$	$3 - 2 = 1$
$12 - 5 = 7$	$7 + 7 = 14$	$10 - 6 = 4$	$4 + 4 = 8$
$5 + 6 = 11$	$6 + 5 = 11$	$15 - 7 = 8$	$3 + 4 = 7$
$9 - 3 = 6$	$13 - 7 = 6$	$7 + 7 = 14$	$1 + 2 = 3$
$3 - 1 = 2$	$4 - 4 = 0$	$4 + 7 = 11$	$5 - 0 = 5$
$14 - 7 = 7$	$6 + 2 = 8$	$7 - 4 = 3$	$9 + 3 = 12$
$5 + 8 = 13$	$13 - 8 = 5$	$11 - 6 = 5$	$17 - 8 = 9$
$15 - 9 = 6$	$5 + 4 = 9$		

$$\begin{array}{r} 8 \\ + 7 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 12 \\ - 7 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 13 \\ - 7 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline 8 \end{array}$$

Kuringanîra: karataati 16-17

a) $1 + 1 + 3 = 5$	$3 + 2 + 2 = 7$	$5 + 3 + 2 = 10$
$1 + 2 + 3 = 6$	$4 + 1 + 0 = 5$	$6 + 2 + 2 = 10$
$2 + 2 + 3 = 7$	$3 + 0 + 4 = 7$	$5 + 2 + 2 = 9$

$$2 + 4 + 1 = 7 \quad 4 + 4 + 2 = 10 \quad 4 + 5 + 3 = 12$$

b)

$1 + 2 + 3 = 6$	$6 + 7 + 3 = 16$	$2 + 4 + 2 = 8$
$3 + 8 + 7 = 18$	$7 + 7 + 2 = 16$	$4 + 6 + 3 = 13$
$4 + 6 + 5 = 15$	$2 + 4 + 8 = 14$	$6 + 5 + 5 = 16$
$5 + 4 + 5 = 14$	$7 + 3 + 2 = 12$	$5 + 8 + 5 = 18$

c)

7	3	9	9	4	5
2	5	5	5	3	0
$+ 3$	$+ 2$	$+ 2$	$+ 3$	$+ 2$	$+ 3$
$\hline 12$	$\hline 10$	$\hline 16$	$\hline 17$	$\hline 9$	$\hline 8$

d)

8	3	4	9	9
6	4	7	2	2
$+ 4$	$+ 6$	$+ 3$	$+ 0$	$+ 7$
$\hline 18$	$\hline 13$	$\hline 14$	$\hline 11$	$\hline 18$

e)

3	2	5	6	7	4
5	4	5	8	3	3
<u>+ 2</u>	<u>+ 5</u>	<u>+ 3</u>	<u>+ 5</u>	<u>+ 5</u>	<u>+ 2</u>
<u>10</u>	<u>11</u>	<u>13</u>	<u>19</u>	<u>15</u>	<u>9</u>

C. Kûyûrîria naamba ira ikûûra ûgîtaraga mbica

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba gûtaranîria naamba na kûrutithania naamba bagîtûmagîra ira ikûûra.

Îgiita: Reconi itaano (5)

Mariîtwa ma gîtûmi:

Ira i kûûra.

Into bia kûthooma/kûthoomithia:

mîbiira, mbica, cati.

Ngûgî cia kûthooma/kûthoomithia:

1. Mwarimû oonanie mbica icoreetwe caatini na njîra ya kwamba.
2. Mbica ino ciîgue irî ikundi mwanya mwanya.
3. Arutwa baumbûrîre naamba ira ikûûra gûkûrûkîra gûtara mbica ira itarî mbonanie n'igana.

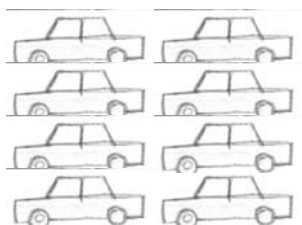
Ngerekano:



$$3 + 2 + 1 = 6$$

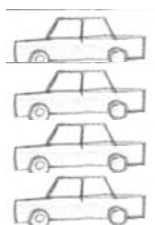
Macookio ma biûria: karataati 18-19

a)



8

+



4

=

12



6

+



5

=

11



14

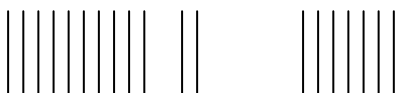
+



4

=

18



12

+

7

=

19

b) $3 + \underline{5} = 8$

$6 + \underline{12} = 18$

$4 + \underline{15} = 19$

$7 + \underline{7} = 14$

$6 + \underline{10} = 16$

$8 + \underline{9} = 17$

$4 + \underline{15} = 19$

c) $4 + \underline{7} = 11$

$2 + \underline{14} = 16$

$\underline{7} + 6 = 13$

$\underline{5} + 7 = 12$

$\underline{3} + 8 = 11$

$\underline{8} + 9 = 17$

$\underline{5} + 11 = 16$

d) $5 + \underline{7} = 12$

$\underline{13} + 0 = 13$

$3 + \underline{9} = 12$

$7 + \underline{11} = 18$

$5 + \underline{9} = 14$

$3 + \underline{12} = 15$

$12 + \underline{4} = 16$

$15 + \underline{0} = 15$	$\underline{4} + 10 = 14$	$3 + \underline{14} = 17$
$11 + \underline{1} = 12$	$\underline{5} + 10 = 15$	$10 + \underline{9} = 19$

Kûûyûrîria naamba ira i kûûra: karatati 20-22

$8 - \boxed{8} = 0 \quad 9 - \boxed{2} = 7 \quad 6 - \boxed{2} = 4$

$8 - \boxed{2} = 6 \quad 9 - \boxed{3} = 6 \quad 2 - \boxed{1} = 1$

$5 - \boxed{4} = 1 \quad 8 - \boxed{4} = 4 \quad 3 - \boxed{1} = 2$

$4 - \boxed{1} = 3$

a) $8 + 7 = \underline{15}$ $5 + 9 = \underline{14}$ $9 + \underline{0} = 9$

$9 + \underline{9} = 18 \quad \underline{9} + 6 = 15 \quad 0 + 9 = \underline{9}$

$16 - 7 = \underline{9} \quad 13 - \underline{6} = 7 \quad 9 - 0 = \underline{9}$

$\underline{15} - 8 = 7 \quad 15 - 9 = \underline{6} \quad 9 - \underline{9} = 0$

b) $9 + 3 = \underline{12}$ $6 + 7 = \underline{13}$ $7 + 9 = \underline{16}$

$12 - 9 = \underline{3} \quad 12 - 6 = \underline{6} \quad 16 - \underline{7} = 9$

$3 + \underline{9} = 12 \quad \underline{6} + 6 = 12 \quad 9 + \underline{7} = 16$

$12 - 3 = \underline{9} \quad 12 - 6 = \underline{6} \quad 16 - 9 = \underline{7}$

c) $7 + 6 = \underline{13}$ $13 - \underline{8} = 5$ $30 + 30 = \underline{60}$

$13 - \underline{7} = 6 \quad 8 + 5 = \underline{13} \quad 60 - \underline{30} = 30$

$6 + \underline{7} = 13 \quad \underline{8} + 5 = 13 \quad \underline{60} - 30 = 30$

$13 - \underline{6} = 7 \quad \underline{18} - 5 = 13 \quad 30 + 20 = \underline{50}$

$$\begin{array}{lll}
 \text{d) } 13 + 2 = \underline{15} & 10 + 6 = \underline{16} & 3 + 6 = \underline{9} \\
 \underline{2} + 13 = 15 & \underline{6} + 10 = 16 & \underline{6} + 3 = 9 \\
 15 - 3 = \underline{12} & 16 - 10 = 6 & 9 - \underline{3} = 6 \\
 15 - \underline{12} = 3 & 16 - \underline{6} = 10 & \underline{9} - 6 = 3
 \end{array}$$

D. Kûringanîra na kûrutithania

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa kaûmba kûringanîra na kûrutithania makûmi.

Îgiita: Reconi ciîrî (3)

Mariîtwa ma gîtûmi: Makûmi

Into bia kûthooma/kûthoomithia: tûmîtî, twiga, cati

Ngûgî cia kûthooma/kûthoomithia:

1. Onia arutwa makûmi ûgîtûmagîra tûmîtî tûûbange tûkundi twa makûmi makûmi.
2. Andîka makûmimwanya mwanya kîbaûni.
3. Tongoria arutwa kûringanîra makundi ma makûmi mangî na kûrutithania.

Macookio ma biûria:

Îbuku rîa mûrutwa karataati ka 23-24.

a) 20	b) 10	c) 40	80	90	0
40	20	70	50	40	40
30	0	50	20	60	30
50	20				
60	10	80	60	90	
		10	20	30	

Kûringanîra naamba ciîrî ciîrî ûtagûkamata

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûringanîra naamba ciîrî na naamba ciîrî atagûkamata.

Îgiita: Reconi ithatû (3)

Mariîtwa ma gîtûmi:

Gûkamata.

Into bia kûthooma/kûthoomithia: twiga, tûmîti, cati

Ngûgî cia kûthooma/kûthoomithia:

1. Tongoria arutwa kûbaanga îthaabu rîa kûringanîra rîndamîite
2. Onia arutwa kûringanîra matigari mbere rîru baringanîre makûmi nyuma.
3. Arutwa bagwete îcookio rîra bakwona.
4. Mwarimû atûmîre twiga ikundi ikundi na arutwa baringanîre rîru batore.

Macookio ma biûria:

Îbuku rîa mûrutwa karataati ka 24

a)	28	26	38	58
b)	41	48	38	58
c)	66	76	15	10
d)	78	58	48	79
e)	78	78	59	
	70	77	84	
	74	99		

E. Kûringanîra naamba ciîrî na ciîrî ûgîkamataga

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûringanîra naamba ciîrî wa ciîrî agîkamataga

Îgiita: Reconi ciîrî (2)

Mariîtwa ma gîtûmi: gûkamata

Into bia kûthooma/kûthoomithia: cati, tûmîti, twiga

Ngûgî cia kûthooma/kûthoomithia:

1. Tongoreeria arutwa kûbaanga tûmîti ikundi bia makûmi na matigari.
2. Onia arutwa kûringanîra matigari marî mbere.
3. Matigari maringanîrwa makinya îkûmi makoogwa marî gîkundi kîmwe gîkongeerwa kîrîmakundi mara maangî ma makûmi.
4. Matigari maumbûrîrwe ruungu rwa matigari.
5. Makûmi maumbûrîrwe ruungu rwa makûmi.
6. Arutwa bagwete icookio rîra boona.
7. Mwarimû abeere i bagwete kana i bagwîte.

Macookio ma biûria: îbukuuni rîa mûrutwa karataati ka 25-26

a)	53	85	80	81	79
b)	84	82	82	78	95
c)	74	70	80	61	62
d)	91	82	102	71	91
e)	46	62	82	54	97
f)	79	83	96	93	47
g)	65	91	82		
	83	49	46		
	56	63			

Kûringanîra

karataati 27-28

a)	52	102	99	71	100
	81	73	60	83	80
	41	35	83	80	82
	50	73	64	91	73

b)	89	80	90
	50	91	90
	64	72	86
	81	89	51
	41	61	74
	72	67	60

F. Kûrutithania matigari kuuma kûrî makûmi ûtakûroomba

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûrutithania matigari muuma kûrî makûmi atakûroomba.

Îgiita: Reconi ithatû (3)

Mariîtwo ma gîtûmi: makûmi, matigari

Into bia kûthooma/kûthoomthia: tûmîtî

Ngûgî cia kûthooma/kûthoomithia:

1. Tongoria arutwa kûbanga tûmîtî na ikundi bia makûmi na matigari.
2. Onia arutwa kûbanga matigari mathimeene na matigari.
3. Tongoreeria arutwa kûrutithania matigari kuuma kûrî matigari.

Macookio ma biûria:

Îbuku rîa arutwa: karataati ka 28-29

a)	23	34	40	51	67
b)	92	44	53	66	72
c)	33	51	62	54	42
d)	40	31	43	51	94
e)	15	35	36	43	72
f)	34	34	82		
	52	43	96		

H. Kûrutithania makûmi kuuma kûrî makûmi ûtakûroomba**Mworooto:**

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûrutithania naamba ciîrî kuuma kûrî naamba ciîrî atakûroomba.

Îgiita: Reconi ithatû (3)

Mariîtwa ma gîtûmi: kûromba.

Into bia kûthooma/kûthoomithia: twiga, cati, tûmîti.

Ngûgî cia kûthooma/kûthoomithia:

Tongoria arutwa kûrutithania matigari mbere rîru barutithanie makûmi.

Macookio ma biûria:

Îbuku rîa mûrutwa karataati ka 30-31

a)	45	25	44	34	23
b)	14	35	14	25	11
c)	11	25	40	12	12
d)	11	12	44	12	42
e)	11	34	31		
	13	31	0		

Kûrutithania: karataati ka 31-32

a)	20	21	43	45	66
b)	10	40	60	71	25
c)	26	28	27	9	22
d)	1	40	27	10	0
e)	15	40	0	12	20
f)	40	11	73		
	10	30	4		

Kûruta: karataati 33-34

a)		b)		c)
16		35		12
31		25		24
50		30		8
35		15		35
23		26		45
d) 10	42	11	14	39
e) 22	0	2	44	5
f) 44	21	3	40	26

I. Kûringanîra naamba ithatû kwa ithatû ûtagûkamata

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akûmba kûringanîra naamba ithatû atagûkamata.

Îgiita: Reconi inya (4)

Mariîtwa ma gîtûmi: naamba ithatû

Into bia kûthooma/kûthoomithia: cati

Ngûgî cia kûthooma/kûthoomithia:

Tongoria arutwa naamba ithatû ikîonanagia kaanya kara wa naamba îrûgamîrîite.

Ngerekano:

Magana **2**, makûmi **3**, na matigari **7** = **237**.

Neenkera arutwa ngerekano inyiingî cia kûringanîra naamba ithatû batagûkamata.

Macookio ma biûria:

Îbuku rîa mûrutwa karataati ka 34

a)	300	555	335	777	666
b)	898	839	934	333	777
c)	620	691	914	900	888
d)	555	777			
	468	200			
	555				

J. Kûrutithania naamba ithatû kuuma kûrî naamba ithatû gûtarî kûromba**Mworooto:**

Mûthiani wa kîthoomo gîkî mûrutwa akaûmba kûruta naamba ithatû kuuma kûrî ciingî ithatû atakûroomba.

Îgiita: Reconi ithatû (3)

Mariîtwa ma gîtûmi: kûrutithania.

Into bia kûthooma/kûthoomithia: cati

Ngûgî cia kûthooma/kûthoomithia:

Tongoria arutwa kûrutithania naamba ithatû matigari mbere, makûmi rîrûmagana.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 35

- | | | | | | |
|----|-----|-----|-----|-----|-----|
| a) | 100 | 300 | 200 | 300 | 100 |
| b) | 270 | 110 | 240 | 100 | |
| c) | 162 | 231 | 100 | 111 | 1 |

K. Kûringanîra naamba ithatû kwa ithatû ûgîkamataga

Mworooto:

Muthiani wa kîthoomo gîkî mûtwâ kaûmba kûringanîra naamba ithatû kwa ithatû ûgîkamataga

Îgiita: Reconi ithatû (3)

Mariîtwâ ma gîtûmi: ruungu, magana, makûmi, matigari

Into bia kûthooma/kûthoomithia: cati, kîbaû, twara.

Ngûgî cia kûthooma/kûthoomithia:

1. Onia arutwa kûringanîra naamba ithatû na ciingî ithatû bagîkamataga
2. Arutwa boonganîrie matigari bakamate îkûmi rîra rîkaûyûra
3. baringanîre makûmi mara mangî rîru barinaganire magana.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 36

- | | | | | | |
|----|-----|-----|-----|-----|-----|
| a) | 761 | 381 | 470 | 461 | 471 |
| b) | 331 | | 781 | | |
| | 640 | | 951 | | |
| | 680 | | 331 | | |

L. Kûrutithania naamba ithatû kuuma kûrî naamba ithaû ûkîroombaga

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûrutithania naamba ithatû kuuma kûrî naamba ithatû akîroombaga.

Îgiita: Reconi ithatû (3)

Mariîtwa ma gîtûmi: kûromba

Into bia kûthooma/kûthoomithia: cati, kîbaaû

Ngûgî cia kuthooma/kûthoomithia:

Tongoria arutwa gûtara mathaabu ma kûruta naamba ithatû kuuma kûrî ithatû bakîroombaga.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 37

a) 209 19 109 104 116

b) 235 119
209 238
105 129

M. Kuugithania maita kuuma îmwê mwanka itaano

Mworooto:

Mûthiani wa kîthhoomo gîkî, mûrutwa akaûmba kuugithia maita naamba ciîrî ciîrî na njîra ya kûringanîra

Îgiita: Reconi ciîrî (2)

Marîtwa ma gîtûmi: kuugithania maita.

Into bia kûthooma/kûthoomithia:

cati, kîbaû, mbica

Ngûgî cia kûthooma/kûthoomithia:

Tongoreeria arutwa kûringanîra naamba ciîrî ciîrî îrî njîra îmwê ya kuugithania maita.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 38-39

Gûtara cîîrî cîîrî

1. 2
2. 4
3. 6
4. 8
5. 10

Gûtaranîria ithatû ithatû.

1. 3
2. 6
3. 9
4. 12
5. 5

Gûtara cîîrî cîîrî na ithatû ithatû: karatati 40-41

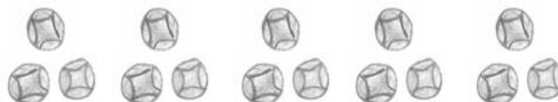
$$\underline{3} \times \underline{3} = \underline{9}$$



$$\underline{2} \times \underline{5} = \underline{10}$$



$$\underline{3} \times \underline{5} = \underline{15}$$



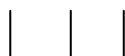
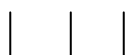
$$\underline{3} \times \underline{2} = \underline{6}$$



$$\underline{3} \times \underline{4} = \underline{12}$$



$$\underline{2} \times \underline{3} = \underline{6}$$



$$2 \times 3 = \underline{6}$$

$$3 \times 3 = \underline{9}$$

$$3 \times 2 = \underline{6}$$



$$5 \times 2 = \underline{10}$$

$$\underline{4} \times 3 = 12$$

$$1 \times 3 = \underline{3}$$



$$\underline{3} \times 3 = 9$$

- | | | |
|----|----|----|
| 1. | 2 | 2 |
| 2. | 4 | 4 |
| 3. | 6 | 6 |
| 4. | 8 | 8 |
| 5. | 10 | 10 |

- | | | |
|----|----|----|
| 1. | 3 | 3 |
| 2. | 6 | 6 |
| 3. | 9 | 9 |
| 4. | 12 | 12 |
| 5. | 15 | 15 |

Gûtaranîria inya inya.

Macookio ma biûria: karataati ka 43

- 4
- 8
- 12
- 16
- 20

Gûtaranîria itaano mwanka maita mataano

Macookio ma biûria: karataati ka 44-45

- | | |
|----|----|
| 1. | 5 |
| 2. | 10 |
| 3. | 15 |
| 4. | 20 |
| 5. | 25 |

- | | |
|----|-------------------|
| 1. | 5 |
| 2. | 10 |
| 3. | 3 |
| 4. | 5×4 |
| 5. | $5 \times 5 = 25$ |

Kûyûrîria mûraba:

Macookio: Karataati ka 46

x	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

a) 3 6 12
 3 6 3
 10 2 4
 10 5 5
 25 4 5
 7 5

b) 50 30 70 10
 40 60 80 90

c) 20 50 70 30
 90 40 60 10

Kuugithia maita:

Macookio ma biûria: karataati ka 49-50

a) 12 9 30
 20 24 80
 60 70 20

b) 8 20 40
 18 15 21
 16 50 10

c) 30 12 60

d) 40 36 10

e) 9 20 30

Ûyûrîria naamba ira i kûûra: karatati 50

a) 15 6, 12 6, 36

b) 4, 16 4, 6, 24

c)	$6 \times 2 = 12$	d)	12	30	20
	$4 \times 10 = 40$		40	18	70
	$5 \times 2 = 10$		12		
	$10 \times 1 = 10$				
	$3 \times 1 = 3$				
	$7 \times 2 = 14$				

Kuugithia maita: karatati 52

a) 10 60 20
 70 30 80
 30 90 40
 50

b) 4 24 8
 32 12 36
 16 40

c) 3 15 6
 6 18 9
 21 12 30

Kuugithia maita: karatati 53

a) 20 50 8
 25 30 20
 60 70 60

b) 70 16 90
 30 60 7

c) 50 20 50
 49 30 70

N. Gaîra biganeene

Mworooto:

Mûthiani wa kîthoomo gîkî mûrutwa akaûmba kûgaira naamba itagûkûrûkia 25 na naamba îtagûkûrûka 5.

Îgiita: Reconi itaano (5)

Mariîtwa ma gîtûmi: kûgaîra

Into bia kûthooma/kûthoomithia: arutwa, tûmîti, twiga

Ngûgi cia kûthooma/kûthoomithia:

1. Tongoria arutwa kûgaîra tûmîti 6 kîrî twana 2.
2. Ûria arutwa wa mwana akagwata tûmîti tûgana.
3. Cookera kûgaîra gûku na into mwanya mwanya.

Macookio ma biûria: Îbuku rîa mûrutwa

$$15 \div 3 = 5 \quad 12 \div 3 = 4 \quad 9 \div 3 = 3$$

Kûgaîra: karatati 56-57

2	3	3
1	4	5
2	3	4
3	2	2
4	5	5
8	5	2
1	4	6

a)	7	3	3
	8	4	5
	10	7	4

b)	3	2	5
	4	6	6
	20	2	

O. Mataane ma naamba rîra tûkûringanîra na rîra tûkûruta

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba gûceria mataane ma naamba bakîringanagîra kana bakîrutaga.

Îgiita: Reconi itaano (5)

Mariîtwa ma gîtûmi: mataane, kwongeera, na kûruta.

Into bia kûthooma/kûthoomithia: cati, kîbaaû

Ngugî cia kûthooma/kûthoomithia:

Onia arutwa gûceria mataane ma naamba bakîrutaga kana bakîringanagîra.

Macooki ma biûria: karataati ka 58.

Gûceria naamba îra îkûûra mataaneeni.

$22 + 1 = \underline{23}$	$28 + 4 = \underline{32}$	$43 + 7 = \underline{50}$
$23 + 2 = \underline{25}$	$32 + 5 = \underline{37}$	$50 + 8 = \underline{58}$
$25 + 3 = \underline{28}$	$37 + 6 = \underline{43}$	

Karatati 59-60

Naamba ira ithingatîite mataaneeni

1. **18**
2. **13**
3. **14**
4. **25**
5. **22**
6. **6**

Karatati 61

Naamba îra îkûûra mataaneeni

1. **3**
2. **12**
3. **25**

GÎCUNCÎ KÎA BÎTHATÛ: Kûthima

Mworooto:

Mûthiani wa gîcuncî gîkî, mûrutwa akûmba:

- a) kûthima ûraaya mwanya mwanya bagîtûmagîra mita ta kîthimi kîa mma
- b) kûthima moorito mwanya mwanya bagîtûmagîra ratiiri
- c) kûmenya na gûtaarûkania mbia cia Kenya itagûkûrûka 500/ =
- d) gûtaranîria na kûrutithania ciringi na mang'otore atagûkamata kana aromba
- e) kwandîka ntugû cia kiumia na mîeri ya mwanka ithingateene bwega
- f) kûthooma na kwandîka thaa na mathaa.

A. Kûthima

Mworooto:

Mûthiani wa kûthoomo gîkî, mûrutwa akaûmba kûthima ûraaya agîtûmagîra mita ta kîthimi kîa mma.

Îgiita: Reconi inya (4)

Mariîtwa ma gîtûmi: kûthima, ûraaya, mita.

Into bia kûthooma/kûthoomithia: ruura, ndigi, matagaaria.

Ngûgî cia kûthooma/kûthoomithia:

- 1. Tongoria arutwa kûthima moraaya mwanya mwanya na bagîtûmagîra ithimi mwanya mwanya.
- 2. Rutana arutwa gûtûmîra mita ta kîthimi kîa mma.

Macookio ma biûria: îbuku rîa mûrutwa karataati ka 62-66

Thima na arutwa moraaya mara maûriîtue îbukuuni rîa mûrutwa karataati ka 62-66, na gweyane macookio ma mma nyuma ya kûthima.

B. Kûthima ûrito ûgîtûmagîra into mwanya mwanya

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba morito mwanya mwanya agîtûmagîra ratiiri ta kîthimi kia mma.

Îgiita: Reconi inya (4)

Mariîtwa ma gîtûmi: ratiiri, ûrito.

Into bia kûthooma/kûthoomithia: ratiiri, maiga.

Ngûgî cia kûthooma/kûthoomithia:

1. Tongoria arutwa kûthima into mwanya mwanya bakîathûranaga i kîrîkû kîrito kûrî kîra kîngî.
2. Onia arutwa kûthima na ratiiri kîrî kîthimi kîa mma gîa kûthima ûrito.

Macookio ma biûria: îbuku rîa mûrutwa karataati ka 67-71

Thima na arutwa into bira birî îbukuuni rîa mûrutwa karataati ka 69
Nenkanîra macookio ma mma.

3. Kûthima mûgana wa gîintû

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûthima mûgana wa into mwanya mwanya.

Îgiita: Reconi ithatû (3)

Mariîtwa ma gîtûmi: Mûgana.

Into bia kûthooma/kûthoomithia.

cûûba, gîkombe, îtangi, mûtûngi, kathuga, karaî,

Ngûgî cia kûthooma/kûthoomithia:

Tongoria arutwa kûthima mîgana mwanya mwanya bagîtûmagîra into mwanya mwanya bia kûthima.

Macookio ma biûria: îbuku rîa mûrutwa karataati ka 69-71
Thima na arutwa into mwanya mwanya bakîathûranaga kîra kîrî na mûgana ûmwingî Kûrî kîra kîngî.

D. Mbia cia Kenya

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûmenya na gûtaarûkania mbia cia Kenya cia tûthaangû na mang'otore itagûkûrûka 500/ = na aumbe kûringanîra na kûrutithania ciringi na mang'otore batagûkamata kana baromba.

Îgiita: Reconi itaano (5)

Mariîtwa ma gîtûmi: mang'otore, ciringi, kathangû.

Into bia kûthooma/kûthoomithia: mbia cia tûthangû, ciringi, mang'otore

Ngûgî cia kûthooma/kûthoomithia:

1. Onia arutwa mbia cia Kenya cia tûthangû, ciringi na mang'otore itagûkûrûka 500/ =
2. Tongoria arutwa kûbaanga, kûringanîra, na kûritithania batagûkamata kana kûromba

Macookio ma biûria: îbuku rîa mûrutwa karataati 75-76

a) Gûtaranîria ciringi na mang'otore

ciringi	mang'otore
7	60

ciringi	mang'otore
9	70

ciringi	mang'otore
4	90

ciringi	mang'otore
7	50

b) Kûrutithania ciringi na mang'otore

Îbuku rîa mûrutwa karataati ka 76

ciringi	mang'otore
4	50

ciringi	mang'otore
1	50

ciringi	mang'otore
5	50

ciringi	mang'otore
3	60

ciringi	mang'otore
4	10

E. Ntugû cia kiumia

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûbaanga na kwandîka ntugû cia kiumia.

Îgiita: Reconi ciîrî (2)

Mariîtwa ma gîtûmi: kiumia, ntugû

Into bia kûthooma/kûthoomithia: Cati

Ngûgi cia kûthooma/kûthoomithia:

Tongoria arutwa kûthooma, kûbaanga, na kwandîka ntugû cia kiumia.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 77-78
Raithîra wone kana arutwa bakûbaanga na kwandîka ntugû cia kiumia bwega.

F. Mîeri ya mwanka

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûthooma, kwandîka, na kûbaanga mîeri ya mwaanka bwega.

Îgiita: Reconi ithatû (3)

Mariîtwâ ma gîtûmi: mwanka, mweri.

Into bia kûthooma/kûthoomithia: cati

Ngûgî cia kûthooma/kûthoomithia:

Tongoria arutwa kûthooma, kûbaanga, na kwandîka mîeri ya mwanka îthingateene bwega.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 77-78

1. 7
2. mûrutwa agwete ntugû inya cionthe ira akûmenya cia kiumia atagwicookera.
3. ncumamoci/ncumabiiri
4. mûgaano
5. mûrutwa agwete mîeri yonthe îra akûmenya ya mwanka atagwicookera.
6. mûkungûgû

G. Mathaa

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akaûmba kûthooma na kwandîka thaa na mathaa.

Îgiita: Reconi ithatû (3)

Mariîtwâ ma gîtûmi: thaa, tûmîgwi, gûtara, gakubi.

Into bia kûthooma/kûthoomithia: thaa, mbica

Ngûgî cia kûthooma/kûthoomithia:

1. Onia arutwa thaa ûbaûrie i mbi?
2. Coora thaa kîbaûni wereece bûra îthoomgwa
3. Curia cati îkîonanagia mathaa mwanya mwanya.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 79-80

- a. 7 (thaa îmwê)
- b. 12 (thaa thiita)
- c. 11 (thaa itaano)
- d. 8 (thaa ciîrî)
- e. 1 (thaa mûgwanja)
- f. 9 (thaa ithatû)
- g. 4 (thaa kûmi)
- h. 2 (thaa inyaanya)
- i. 3 (thaa keenda)
- j. 6 (thaa kûmi na ciîrî)

GICUNCÎ KÎA BINA: Mathaabu ma mîcooro

Mworooto:

Mûthiani wa gîcuncî gîkî, mûrutwa akaûmba:

- a)** kûmenya na kwathûrana mathaabu ma mîcooro mwanya mwanya
- b)** gûkoobia na njîra ya gûcokeeria na kûûmba mîcooro ya mathaabu.
- c)** kûrûtha mataane ma mîcooro ya mathaabu.

A. Mathaabu ma mîcooro

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akûmba kûmenya na kwathûrana mathaabu ma mîcooro mwanya mwanya.

Îgiita: Reconi inya (4)

Marîitwa ma gîtûmi: mîcooro ya mathaabu

Into bia kûthoom/kûthoomithia: cati, mabuku, kîbaû

Ngûgi cia kûthooma/kûthoomithia:

- 1. Coora mîcooro ya mathaabu mwanya mwanya.
- 2. Onia arutwa mîcooro ya mathabu.
- 3. Ereeca maiitwa macio.

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 82

Mîraba mîraaya 3

Mîraba 3

Karataati 83

ithiûrûûrî 6

ithiûrûûrî îkome 4

Karataati 84

- a. kîthiûrûûrî
- b. mûraba
- c. mûraba mûraaya
- d. koona ithatû
- e. kîthiûrûûrî îkome
- f. mûraba mûraaya
- g. mûraba
- h. kîthiûrûûrî
- i. koona ithatû
- j. kîthiûrûûrî îkome

Karataati ka 85-86

- 1. kîthiûrûûrî îkome
- 2. ithiûrûûrî
- 3. koona ithatû
- 4. mûraba mûraaya
- 5. mûraba mûraaya
- 6. ithiûrûûrî îkome
- 7. koona ithatû

Gûcokeeria na kûûmba mîcooro

Mworooto:

Mûthiani wa gîcuncî gîkî, mûrutwa akûmba gûcoora na gûcokeeria mîcooro ya mathaabu.

Îgiita: Reconi itaano (5)

Mariîtwa ma gîtûmi: cokeeria, rûrumûkîria, ringa, coora.

Into bia kûthooma/kûthoomithia: ciringi, îkome, ruura, tûrataati.

Ngûgî cia kûthooma/kûthoomithia:

- 1. Onia arutwa micooro mwanya mwanya ya mathaabu.
- 2. Tongoria arutwa gûcokeeria mîcooro ya mathaabu mwanya mwanya.

Macookio ma biûria: îbuku rîa mûrutwa karataati ka 87-90

Raithîra bûra arutwa bacoora mîcooro ya mathaabu îra baneenkeretwe.

Kûmba mîcooro ya mathaabu:

Mworooto:

Mûthiani wa kîthoomo gîkî, mûrutwa akûmba kûûmba mîcooro mwanya mwanya ya mathaabu

Îgiita: Reconi ithatû (3)

Mariîtwo ma gîtûmi: kûûmba, ntoondo

Into bia kûthooma/kûthoomithia: rûûyî, yûûmba.

Ngûgî cia kûthooma/kûthoomithia:

1. Arutwa baume nja
2. Baunganie rûûyî na yûûmba barûthe ntoondo baûmbe mîcooro

Macookio ma biûria: Îbuku rîa mûrutwa karataati ka 91-92
Raitha mîcooro îra arutwa baûmba.