

Mathaabu  
Kîraci kîa Biîrî  
Îbuku rîa Mûrutwa



**MATHAABU**

KÎRACI KÎA BIÎRÎ  
Îbuku rîa Mûrutwa

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| X | 1 | 2 | 3  | 4  | 5  |
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| 1 | 1 |   |    |    |    |
| 2 |   | 4 |    |    |    |
| 3 |   |   |    | 12 |    |
| 4 |   |   |    |    | 20 |
| 5 |   |   | 15 |    |    |

# MATHAABU

ÎBUKU RÎA MÛRUTWA RÎA  
KÎRACI KIA BIÎRÎ

Standard  
2  
pupil s book

Mathematics  
in Tharaka Language

Written by: Tharaka MTE Writers' panel

Compiled by: Tharaka MTE staff

Technical Assistant: Susan Nyaga

Edited by: Joseph Mbijiwe & Patrick Kanampiu

Illustrated by: Mukabi Mati, Joseck Mutethia  
& Joseph Mbijiwe

Layout Assistant: Janet Sweet

Cover Designer: J.M. Mbijîwe

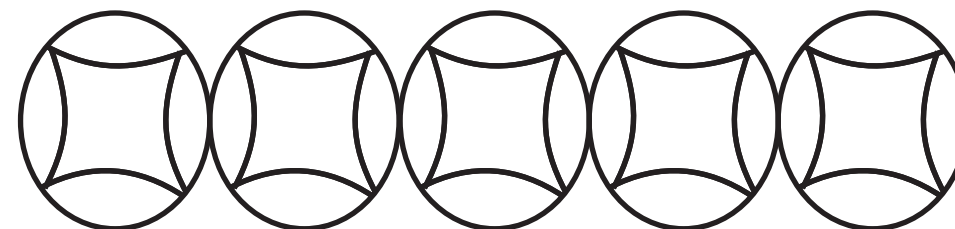
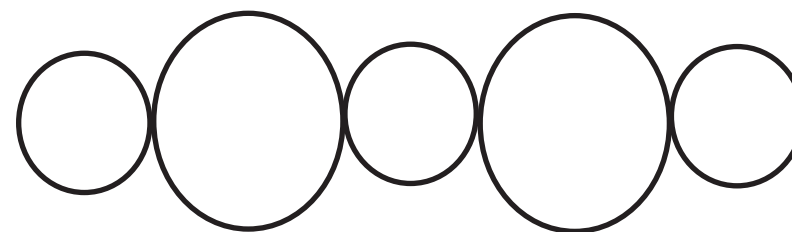
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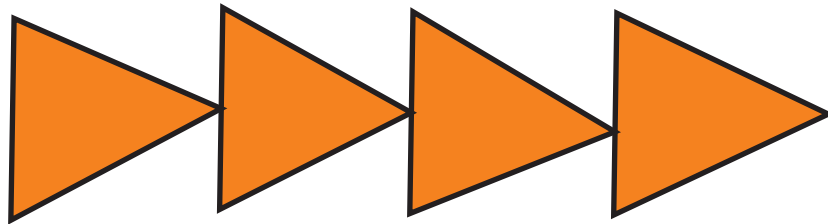
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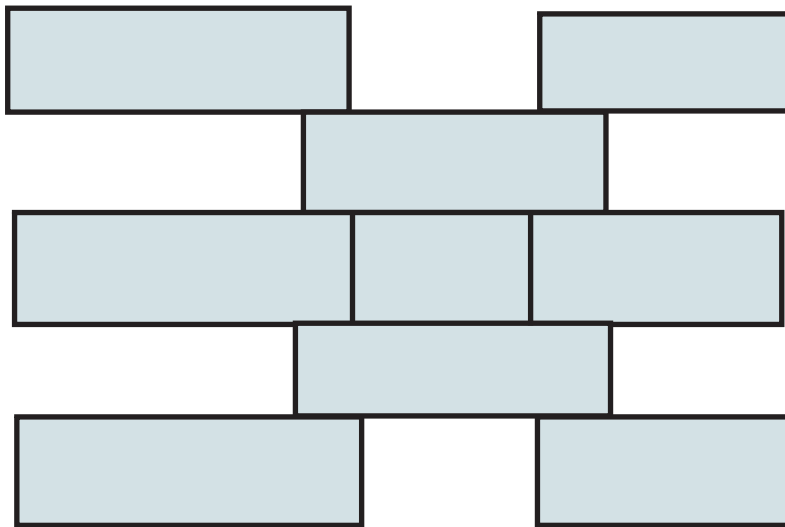
iii)



i)



ii)



## PREFACE

This Standard 2 Mathematics Pupil's Book is written in accordance with the Standard Two Syllabus by 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 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 the 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 Kirimi, Mrs. Eunice Mayira, Ms. Tabitha Munda, Mrs. Esther Karauki, Mr. Ginson Miriti Mrs. Jennifer Makia, Mr. Delfino M. Mwaria, Mr. Zaverio M. Rugia and Mr. Stephen K. Murea;

BTL Tharaka staff, Tharaka South and Tharaka North District Education Officials, our funding partners, Bible Translation & Literacy (E.A.) and our other various partners.

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

God bless you all,

**Onesmus Kamwara**  
**BTL Tharaka Project Leader**

## KÎMENYITHIA

Îbuku rîrî rîa Mathaabu rîa Kîraci Kîa Bîrîrî rîandîkîitwe rîkîthiingatagîra sîrabasi ya Kîraci kîa Bîrîrî. 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 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'î 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 ma mûbangooni ûyû ma Kîitharaka maandîkîitwe bûra mwana wa Tharaka aûmba kûmeerewa bwega mûno. Maandîkîitwe na rwaria rwa Kîitharaka na magîtûmagîra ngerekano ira antû ba Tharaka bamenyanîritie nacio.

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 bateetheereetia 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 bateethagîria 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,

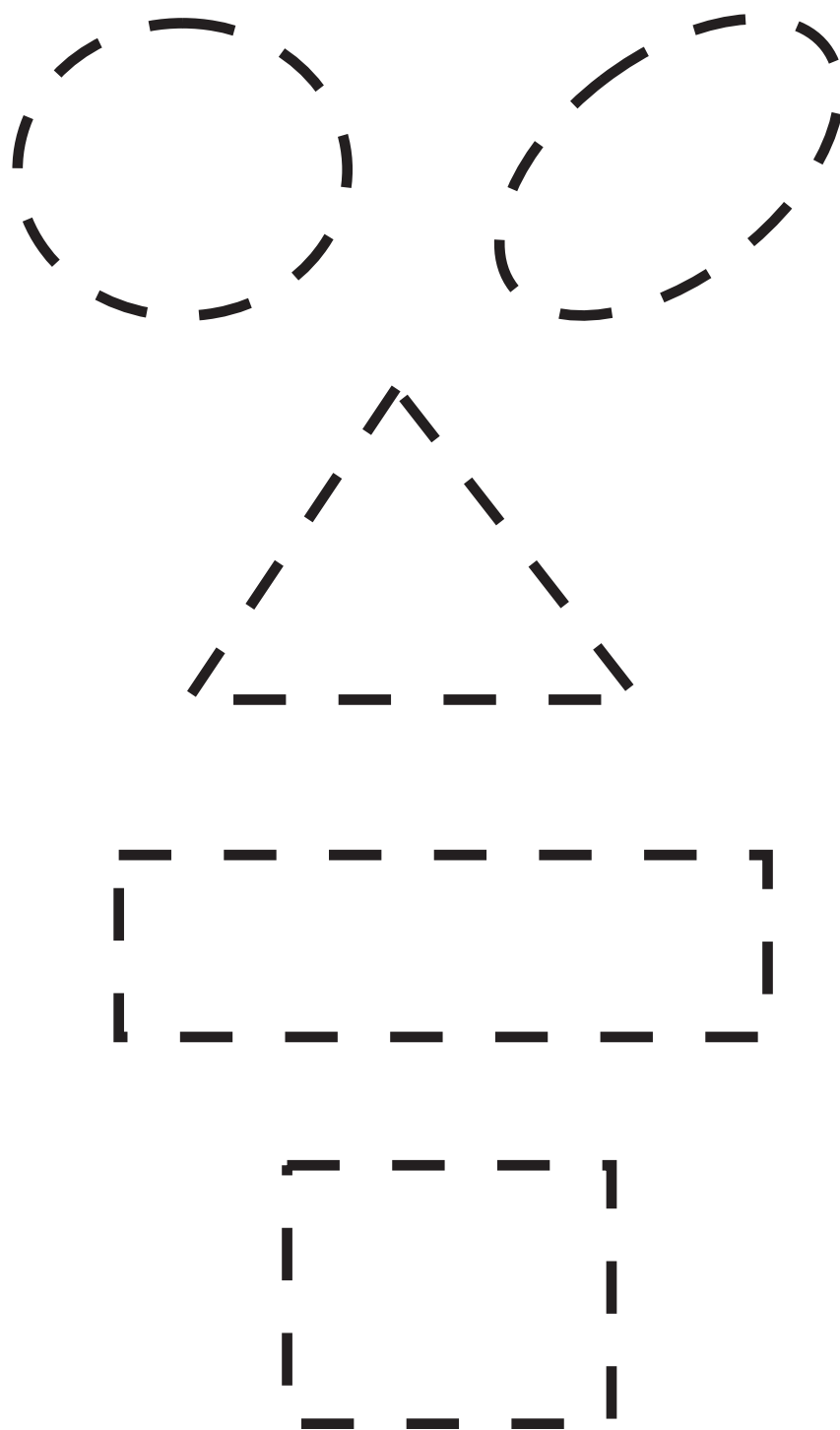
Onesmus Kamwara

BTL Tharaka Project Leader

## Kûûmba:

### Wîra ya kîraci

1. Uma nja
2. Ungania rûûyî na yûûmba ûrûthe ntondo
3. Ûmba ûgîtûmagîra ntondo înu:
  - a) kîthiûrûûrî
  - b) kîthiûrûûrî îkome
  - c) mûraba
  - d) mûraba muraaya
  - e) koona ithatû



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 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).

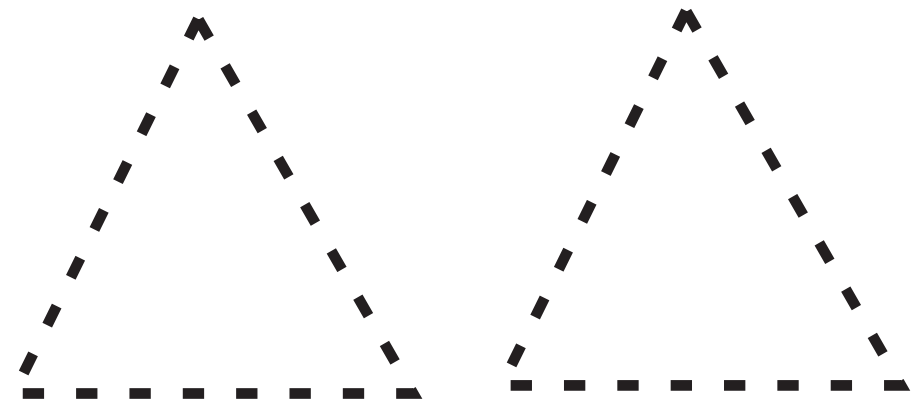
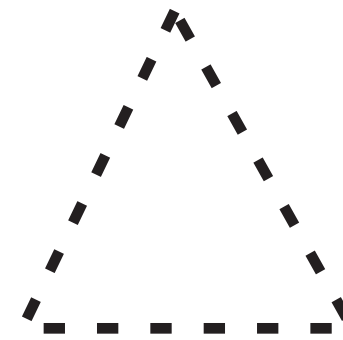
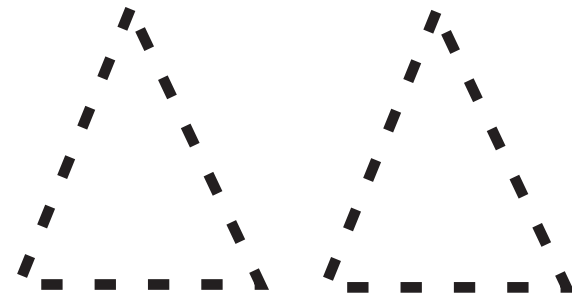
It is my hope that this book will lay a strong foundation to enable Tharaka children to learn numbering and numeracy skills. It is my desire to see that these books will become a stepping stone to the greater success and performance in the children's future learning process. The use of Mother Tongue 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.

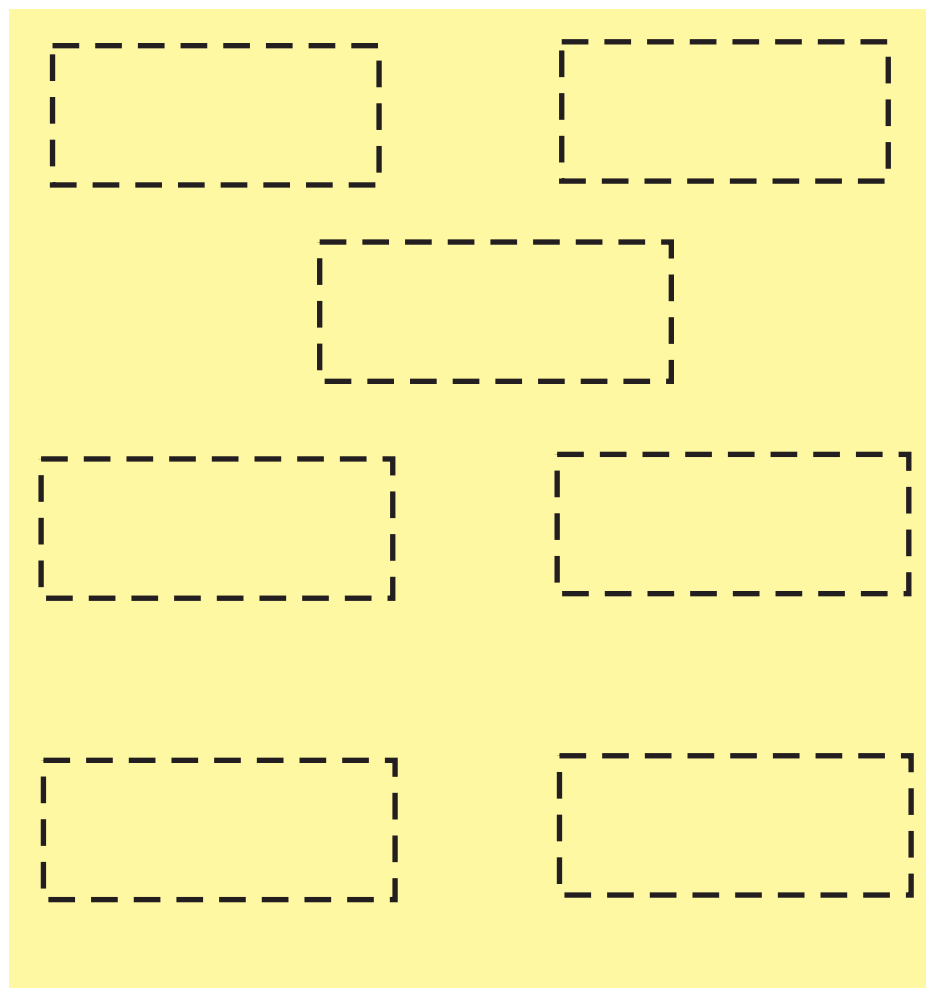
I recognize and applaud the healthy partnerships that BTL has had with the Ministry of Education as represented by the Education Officials and the teachers. On behalf of BTL, I take this opportunity to thank all our partners for having tirelessly and selflessly contributed to the development, editing 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**

## Cokeeria koona ithatû ino



## Cokeeria mîraba mîraaya îno



## MARA MARÎ KU

GÎCUNCÎ KÎA MBERE: Naamba i mbûyûru.....1

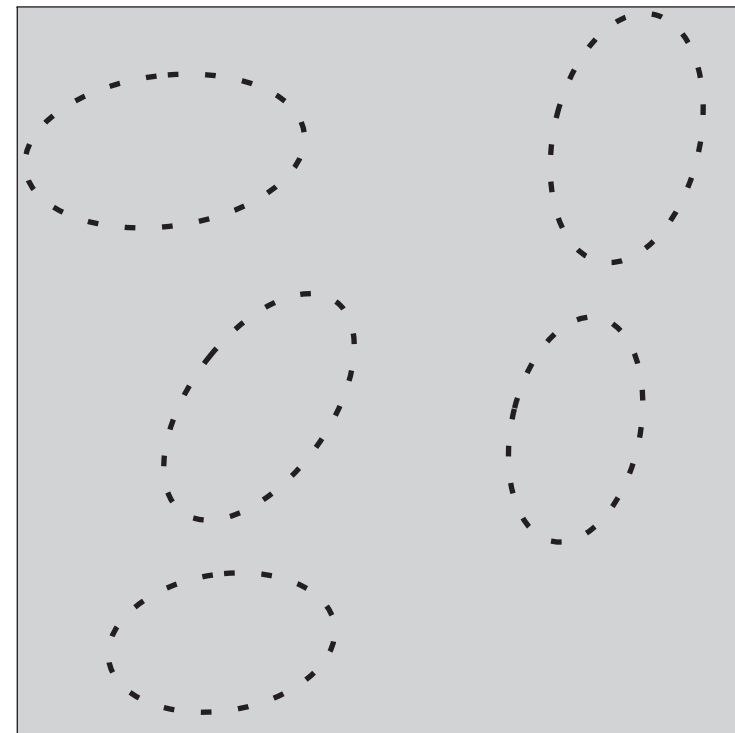
GÎCUNCÎ KÎA BIÎRÎ: Gûtaranîria na Kûrutithania .....17

GÎCUNCÎ KÎA BITHATÛ: Kûthima.....68

GÎCUNCÎ KÎA BINA: Mathaabu ma mîcooro .....91



## Cokeeria ithiûrûûrî îkome bibi



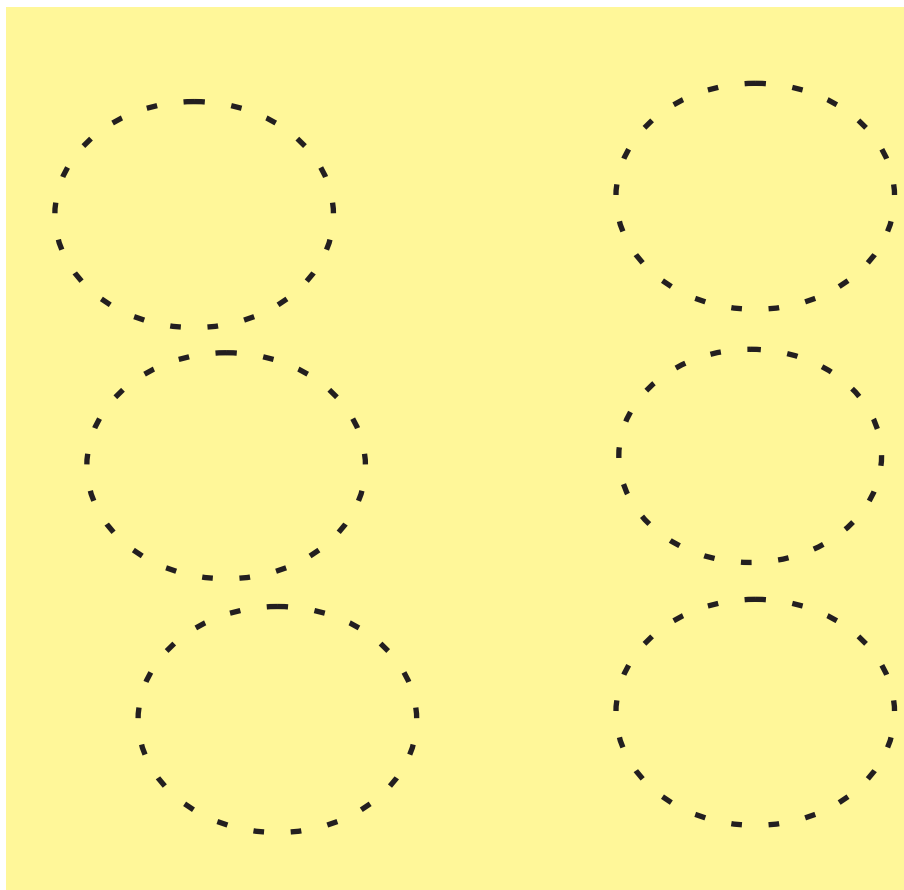
5. kîbara \_\_\_\_\_

6. matû \_\_\_\_\_

7. magego \_\_\_\_\_

**Gucoseeria na kûûmba mîcooro**

**Cokeeria mîcooro îno:**



## GICUNCÎ KÎA MBERE: Naamba

**KÎONGO GÎA KÎTHOOMO: Naamba i mbûyûru**

**A. Gûtara**

**Ûyûrîria naamba ira itigîitwe**

|    |    |    |    |    |    |  |    |    |    |
|----|----|----|----|----|----|--|----|----|----|
| 1  | 2  | 3  |    |    |    |  |    | 9  |    |
|    | 12 |    |    |    |    |  |    |    | 20 |
|    |    |    |    | 25 |    |  |    | 29 |    |
| 31 |    |    |    |    |    |  |    |    | 40 |
|    |    |    |    |    | 46 |  |    |    |    |
|    |    |    | 54 |    |    |  |    |    |    |
|    |    | 63 |    |    |    |  |    | 68 |    |
|    | 72 |    |    |    |    |  | 77 |    |    |
|    |    |    | 84 |    |    |  |    | 88 |    |
|    |    |    |    | 95 |    |  | 97 |    |    |

|    |    |    |  |  |  |    |    |  |  |
|----|----|----|--|--|--|----|----|--|--|
| 32 | 33 |    |  |  |  | 38 |    |  |  |
|    |    | 44 |  |  |  |    | 49 |  |  |

|    |  |    |    |    |    |  |    |  |    |
|----|--|----|----|----|----|--|----|--|----|
|    |  | 78 | 79 |    |    |  |    |  | 85 |
| 86 |  |    |    | 90 | 91 |  | 49 |  |    |

### 1. Andîka naamba ira ciûrîite

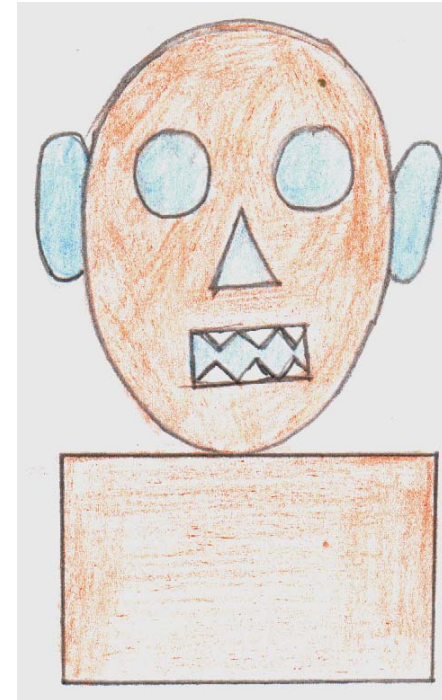
33 34 \_ \_ 37 38 39 40

60 61 \_ 63 64 \_ \_ 67

81 \_ 83 84 \_ \_ \_ 88 89

90 \_ \_ \_ 94 \_ \_ \_ \_ 99

### Ngûgî ya kûruta



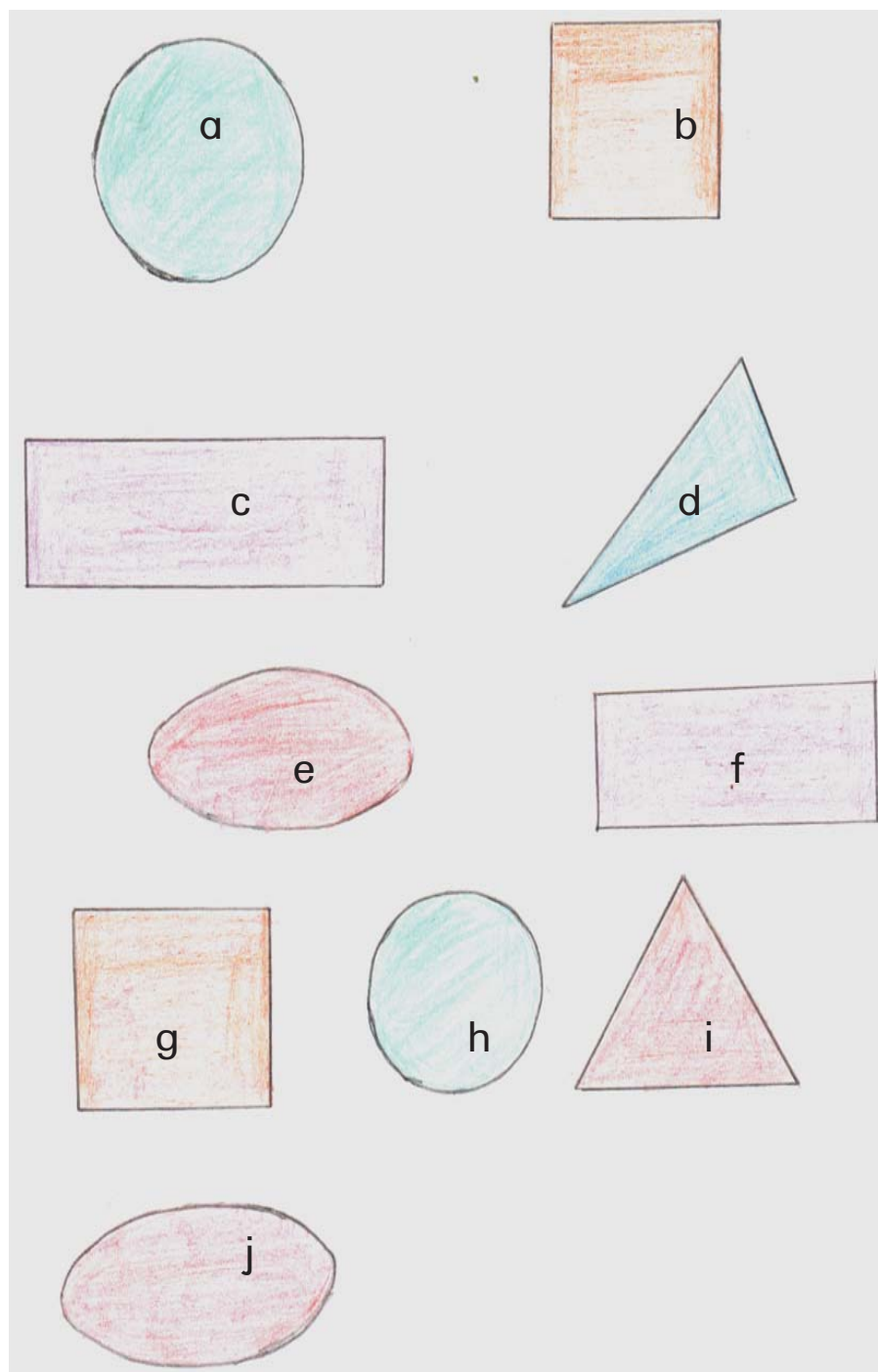
**Gweta mîcooro ya icuncî bibi bia mbica îno.**

1. kîongo \_\_\_\_\_

2. meetho \_\_\_\_\_

3. nyiûrû \_\_\_\_\_

4. mûromo \_\_\_\_\_



Gweta mariîtwa ma mîcooro îno yonthe.

## B. Kaanya kara naamba îrûgamîrîite

$$1 \text{ kûmi rîmwe} + 9 \text{ matigari keenda} = 19$$

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

$$4 \text{ makûmi mana} + 8 \text{ matigari manaana} =$$

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

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

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

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

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

$$21 = 2 \text{ makûmi} + \_ \text{ matigari}$$

$$78 = \_ \text{ makûmi} + \_ \text{ matigari}$$

$$48 = \_ \text{ makûmi} + \_ \text{ matigari}$$

$$36 = \_ \text{makûmi} + \_ \text{matigari}$$

$$99 = \_ \text{makûmi} + \_ \text{matigari}$$

$$52 = \_ \text{makûmi} + \_ \text{matigari}$$

### C. Kûyûrîria naamba kana rwano

1 \_\_\_\_\_ îmwê

3 \_\_\_\_\_ ithatû

inyaanya \_\_\_\_\_

ithanthatû \_\_\_\_\_

cîrî \_\_\_\_\_

7 \_\_\_\_\_

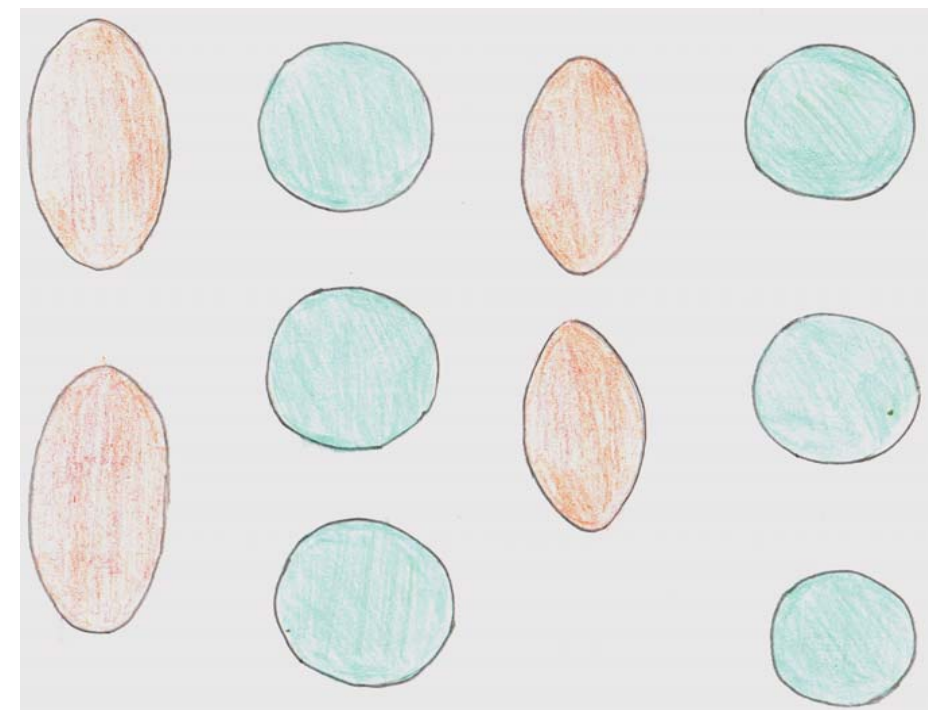
9 \_\_\_\_\_

5 \_\_\_\_\_



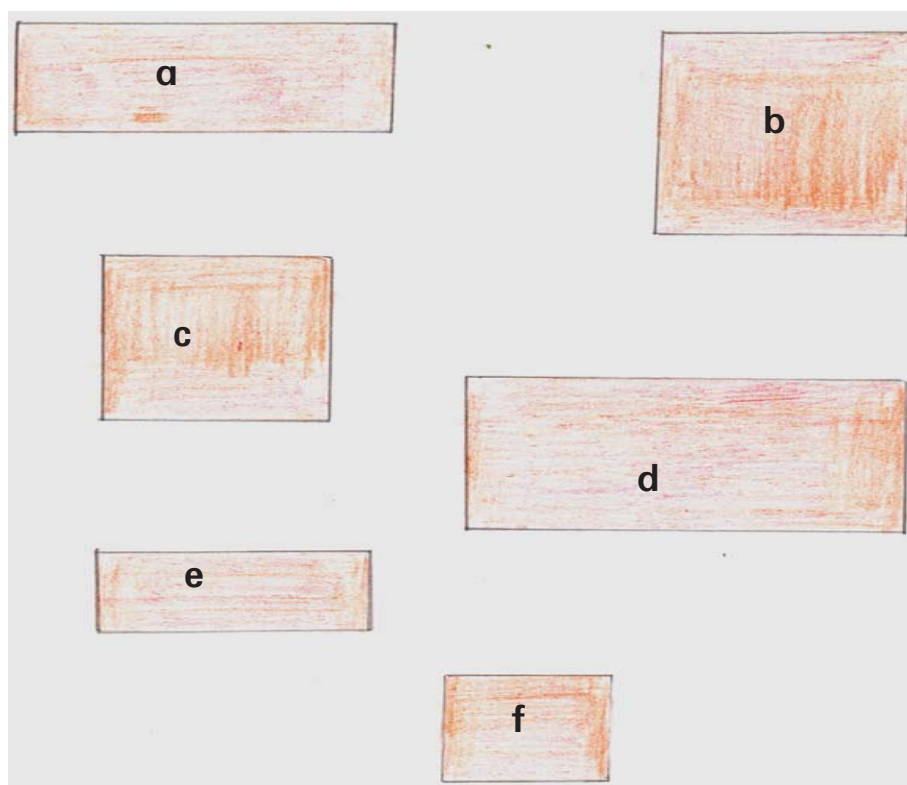
kîthiûrûûrî  
îkome

kîthiûrûûrî



N'ithiûrûûrî bigana ûkwona?

N'ithiûrûûrî îkome bigana ûkwona?



1. I mîraba mîraaya îgana ûkwona?

2. I mîraba îgana ûkwona?

#### D. Kûthooma rwano na rîitwa rîa naamba

10 \_\_\_\_\_ îkûmi

11 \_\_\_\_\_ îkûmi na îmwê

12 \_\_\_\_\_ îkûmi na cîîrî

13 \_\_\_\_\_

14 \_\_\_\_\_

15 \_\_\_\_\_

16 \_\_\_\_\_

17 \_\_\_\_\_

18 \_\_\_\_\_

19 \_\_\_\_\_

## Thooma naamba na ûmîringithanie na rwano

|                     |    |
|---------------------|----|
| ikumi na ithatû     | 16 |
| îkûmi               | 18 |
| îkûmi na îmwê       | 11 |
| îkûmi na ithanthatû | 10 |
| îkûmi na inyaanya   | 13 |

## Thooma naamba na ûmîandîke na rwano

îkûmi na inya \_\_\_\_\_ 14

îkûmi na mûgwanja \_\_\_\_\_

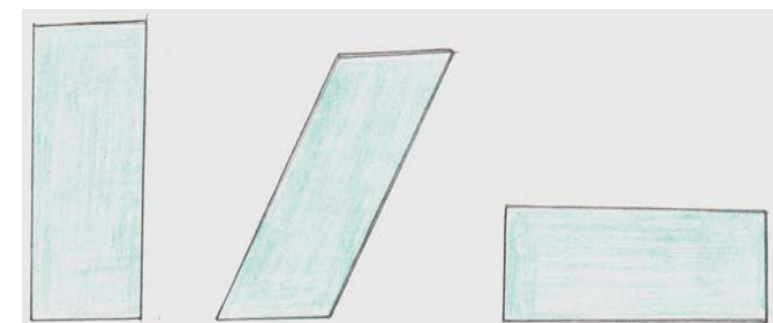
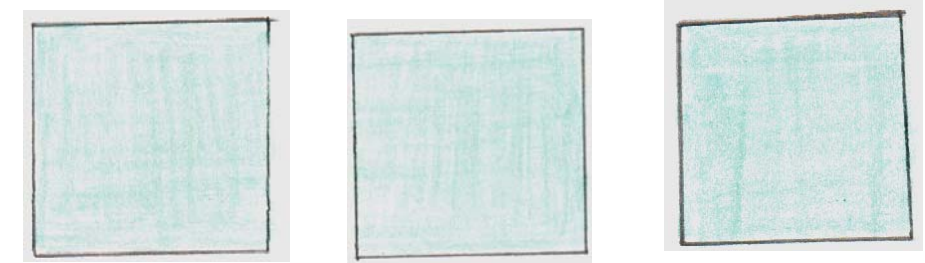
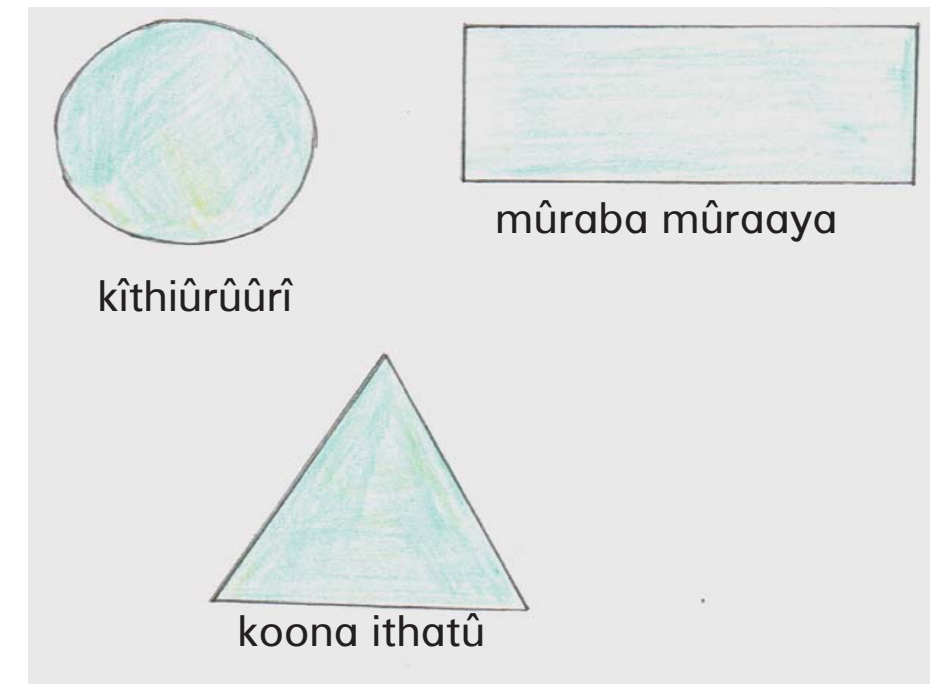
îkûmi na ciîrî \_\_\_\_\_

îkûmi na itaano \_\_\_\_\_

îkûmi \_\_\_\_\_

## GÎCUNCÎ KÎA BINA

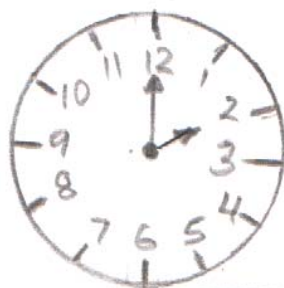
### KÎONGO GÎA KÎTHOOMO: Mathaabu ma mîcooro



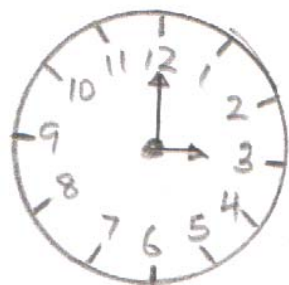
g



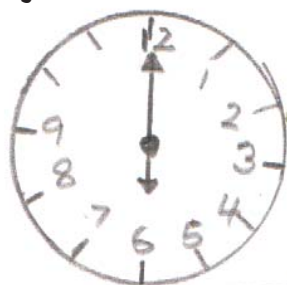
h



i



j



îkûmi na ithanthatû \_\_\_\_\_

îkûmi na keenda \_\_\_\_\_

îkûmi na inyaanya \_\_\_\_\_

**Andîka mariîtwo ma naamba ino**

|                          |   |    |   |
|--------------------------|---|----|---|
| 13<br>îkûmi na<br>ithatû | 8 | 18 | 9 |
|--------------------------|---|----|---|

16 \_\_\_\_\_

18 \_\_\_\_\_

14 \_\_\_\_\_

12 \_\_\_\_\_

8 \_\_\_\_\_



## Thooma rwano na riitwa rîa naamba

10 îkûmi

20 mîrongo yîirî

30 mîrongo îthatû

40 mîrongo îna

50 mîrongo îtaano

60 mîrongo îthanthatû

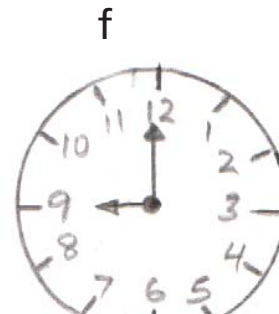
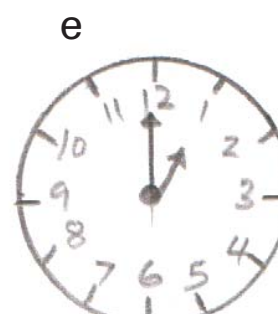
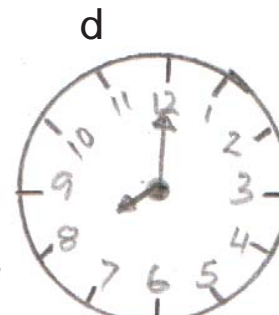
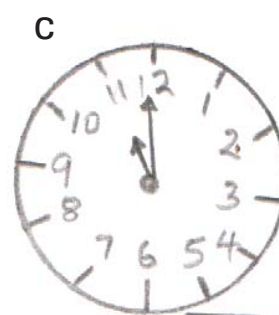
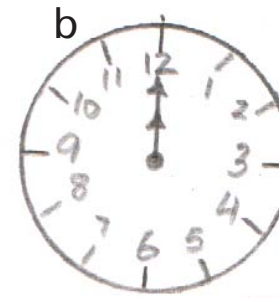
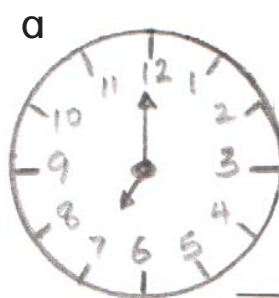
70 mîrongo mûgwanja

80 mîrongo înaana

90 mîrongo keenda

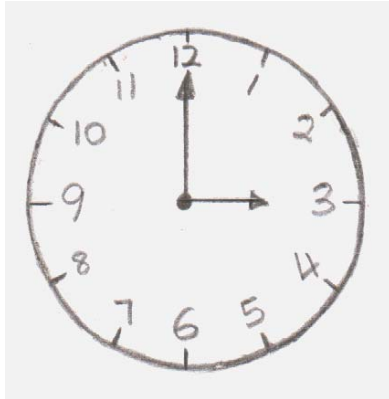
## Biûria

Raitha na wandîke i thaa igana kuuma kîrî mbica ino ûnenkeretwe.



## 7. Mathaa

Ntugû îrî na mathaa mîrongo îîrî na mana. Thaa n'yo îtûmagîrwa gûtara mathaa.



îno i thaa

Thaa îrî na tûmîgwî twîrî.

Kamwe i karaaya na kara kangî i gakubî.

**Thooma rîitwa na gwandîke naamba:**

mîrongo mûgwanja \_\_\_\_\_

mîrongo îthatû \_\_\_\_\_

mîrongo îthanthatû \_\_\_\_\_

mîrongo îna \_\_\_\_\_

mîrongo îtaano \_\_\_\_\_

**Andîka naamba ino na mîgaambo**

40 \_\_\_\_\_

50 \_\_\_\_\_

80 \_\_\_\_\_

60 \_\_\_\_\_

70 \_\_\_\_\_

20 \_\_\_\_\_

30 \_\_\_\_\_

## Thooma na wandîke na rwano:

### Ngerekano

mîrongo mûgwanja na inyaanya -

$$7 \text{ makûmi mûgwanja} + 8 \text{ matigari} = 78$$

| Riîtwa rîa makûmi          | Naamba                 | Rwano |
|----------------------------|------------------------|-------|
| mîrongo îîrî na inya       | makûmi 2<br>matigari 4 | 24    |
| mîrongo îthatû             | makûmi__<br>matigari__ | —     |
| mîrongo înaana na îmwe     | makûmi__<br>matigari__ | —     |
| mîrongo îнна na inyaanya   | makûmi__<br>matigari__ | —     |
| mîrongo mûgwanja na itaano | makûmi__<br>matigari__ | —     |

## 5. Gweta mîeri îtaano ya mwanka

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_

e) \_\_\_\_\_

6. \_\_\_\_\_ i mweri wa mûgwanja wa mwanka.

## Biûria:

1. Kiumia kîrî na ntugû\_\_\_\_\_

2. Gweta ntugû inya cia kiumia

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_

3. Tûthiyaga kanicaani ntugû ya \_\_\_\_\_

4. Mweri wa mbere wa mwanka  
wîtagwa \_\_\_\_\_

## E. Kûthooma kwandîka naamba na mîgaambo

36 = 30 na 6\_\_\_ mîrongo îthatû na ithanthatû

40 = 40 na 0\_\_\_mîrongo îna yonka

| Rwano |         | Mîgambo                 |
|-------|---------|-------------------------|
| 90    | 90      | mîrongo<br>keenda yonka |
| 76    | 70 na 6 | _____                   |
| 55    | 50 na 5 | _____                   |
| 48    | 40 na 8 | _____                   |
| 87    | 80 na 7 | _____                   |
| 39    | 30 na 9 | _____                   |
| 66    | 60 na 6 | _____                   |
| 51    | 50 na 1 | _____                   |
| 99    | 90 na 9 | _____                   |

### Andîka na mîgambo:

85 mîrongo inaana na itaano

46 \_\_\_\_\_

28 \_\_\_\_\_

75 \_\_\_\_\_

66 \_\_\_\_\_

34 \_\_\_\_\_

### Andîka na rwano:

îkumi na keenda \_\_\_\_\_ 19

mîrongo îîrî na inya \_\_\_\_\_

mîrongo îtaano na keenda \_\_\_\_\_

mîrongo îthatû na ithatû \_\_\_\_\_

mîrongo keenda na ithanthatû \_\_\_\_\_

mîrongo îinna na itaano \_\_\_\_\_

### 6. Mîeri ya mwanka:

Mwanka ûrî na mîeri îkûmi na îîrî:

1. Mûgaano

2. Mûndoondo

3. Mûcucuma

4. Mwîrîngo

5. Mûkathara

6. Mûthaano mûcege

7. Mûkûngûgû

8. Mûthanthatû

9. Mûgwanja

10. Nyeenye

11. Kenda

12. Îkûmi

| ciringi | mang'otore | ciringi | mang'otore |
|---------|------------|---------|------------|
| 2       | 60         | 8       | 80         |
| - 1     | 1 0        | - 3     | 30         |
|         |            |         |            |

| ciringi | mang'otore | ciringi | mang'otore |
|---------|------------|---------|------------|
| 9       | 90         | 7       | 20         |
| - 6     | 30         | - 3     | 10         |
|         |            |         |            |

## 5. Ntugû cia kiumia:

### Kiumia kîrî na ntugû mûgwanja

1. ncumabiiri
2. ncumatatû
3. ncumaine
4. ncumataano
5. aramici
6. ncumaa
7. ncumamoci

## GÎCUNCÎ KÎA BIÎRÎ

### KÎONGO GÎA KÎTHOOMO: Gûtaranîria na kûrutithania

#### A. Gûtaranîria

Gûtaranîria i kwonganîiria gîntû na kîra kîngî.

#### Ngerekano

Mbûri ithatû kwongeera ciingî cîrî cionthe igakinya mbûri itaano.  $(3+2=5)$

#### Taranîria

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| 2   | 5   | 3   | 9   | 7   | 9   |
| + 5 | + 3 | + 6 | + 4 | + 9 | + 1 |
| —   | —   | —   | —   | —   | —   |
| 4   | 2   | 6   | 8   | 7   | 0   |
| + 4 | + 6 | + 6 | + 8 | + 7 | + 6 |
| —   | —   | —   | —   | —   | —   |
| 5   | 2   | 7   | 5   | 6   | 8   |
| + 0 | + 9 | + 8 | + 7 | + 6 | + 9 |
| —   | —   | —   | —   | —   | —   |

## B. Kûrutithania

Kûrutithania i kûgaûka wa gîntû.

### Ngerekano

Ûrî na makome mataano, magakua maîrî,  
magatigara mathatû.  $(5 - 2 = 3)$

Tûrutaga naamba îra niini kuuma kûrî îra nene.

### Rutithania:

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 4          | 7          | 8          | 13         | 14         | 15         |
| <u>- 2</u> | <u>- 4</u> | <u>- 5</u> | <u>- 3</u> | <u>- 2</u> | <u>- 8</u> |
| —          | —          | —          | —          | —          | —          |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 9          | 10         | 9          | 14         | 15         | 16         |
| <u>- 0</u> | <u>- 7</u> | <u>- 8</u> | <u>- 5</u> | <u>- 7</u> | <u>- 5</u> |
| —          | —          | —          | —          | —          | —          |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 11         | 10         | 13         | 18         | 16         | 18         |
| <u>- 3</u> | <u>- 3</u> | <u>- 4</u> | <u>- 3</u> | <u>- 6</u> | <u>- 8</u> |
| —          | —          | —          | —          | —          | —          |

| ciringi | mang'otore |
|---------|------------|
| 3       | 70         |
| + 1     | 20         |
|         |            |

| ciringi | mang'otore |
|---------|------------|
| 6       | 30         |
| + 1     | 20         |
|         |            |

### (b) Kûrutithania ciringi na mang otore

| ciringi | mang'otore |
|---------|------------|
| 6       | 80         |
| - 2     | 30         |
|         |            |

## ciringi ngiri îmwê



mbere



nyuma

### a. Taranîria ciringi na mang'otore

| ciringi | mang'otore |
|---------|------------|
| 5       | 50         |
| + 2     | 10         |
| <hr/>   |            |

| ciringi | mang'otore |
|---------|------------|
| 7       | 60         |
| + 2     | 10         |
| <hr/>   |            |

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 3 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ - 2 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ - 4 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ - 3 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 4 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ - 2 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$



## Ûyûrîria mûraba ûyû wa gûtaranîria

| + | 0 | 1 | 2 | 3 | 4 | 5 | 6  | 7 | 8 | 9  |
|---|---|---|---|---|---|---|----|---|---|----|
| 0 |   |   |   |   |   |   |    |   |   |    |
| 1 |   |   | 3 |   |   |   |    |   |   |    |
| 2 |   |   |   | 5 |   |   |    |   |   |    |
| 3 |   |   |   |   |   |   |    |   |   |    |
| 4 |   |   |   |   |   |   |    |   |   |    |
| 5 |   |   |   |   |   |   | 11 |   |   | 14 |
| 6 |   |   | 8 |   |   |   |    |   |   |    |
| 7 |   |   |   |   |   |   |    |   |   |    |
| 8 |   |   |   |   |   |   | 14 |   |   |    |
| 9 |   |   |   |   |   |   |    |   |   |    |

## ciringi îgana rîmwe



mbera



nyuma

## ciringi magana maîrî



mbera

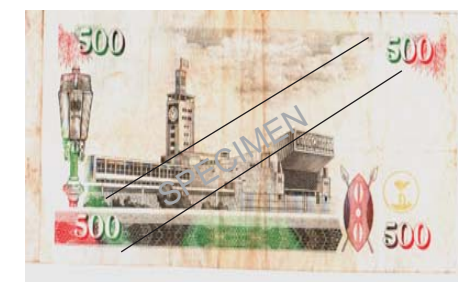


nyuma

## ciringi magana mataano



mbera



nyuma



ciringi mîrongo îna



cumuni

### Mbia cia mathangû



mîrongo îtaano - mbarî ya nyuma

mbarî ya mbere



### Kûringanîra na kûrutithania

|            |            |            |            |
|------------|------------|------------|------------|
| $2 + 6 =$  | $10 - 7 =$ | $0 + 2 =$  | $3 - 2 =$  |
| $3 + 4 =$  | $8 - 5 =$  | $2 + 8 =$  | $7 - 5 =$  |
| $5 + 9 =$  | $6 + 3 =$  | $6 + 6 =$  | $15 - 6 =$ |
| $8 + 0 =$  | $4 - 0 =$  | $8 + 5 =$  | $8 - 9 =$  |
| $6 + 4 =$  | $4 - 4 =$  | $9 + 8 =$  | $3 - 2 =$  |
| $12 - 5 =$ | $7 + 7 =$  | $10 - 6 =$ | $4 + 4 =$  |
| $5 + 6 =$  | $6 + 5 =$  | $15 - 7 =$ | $3 + 4 =$  |
| $9 - 3 =$  | $13 - 7 =$ | $7 + 7 =$  | $1 + 2 =$  |
| $3 - 1 =$  | $4 - 4 =$  | $4 + 7 =$  | $5 - 0 =$  |

$$14 - 7 = \quad 6 + 2 = \quad 7 - 4 = \quad 9 + 3 =$$

$$5 + 8 = \quad 13 - 8 = \quad 11 - 6 = \quad 17 - 8 =$$

$$15 - 9 = \quad 5 + 4 =$$

|            |            |            |            |
|------------|------------|------------|------------|
| 8          | 5          | 12         | 14         |
| <u>+ 7</u> | <u>+ 4</u> | <u>- 7</u> | <u>- 6</u> |
| —          | —          | —          | —          |
| 1 0        | 7          | 1 3        | 1 6        |
| <u>- 6</u> | <u>+ 8</u> | <u>- 7</u> | <u>- 8</u> |
| —          | —          | —          | —          |

### Kûringanîra

A

|               |               |               |
|---------------|---------------|---------------|
| $1 + 1 + 3 =$ | $3 + 2 + 2 =$ | $5 + 3 + 2 =$ |
| $1 + 2 + 3 =$ | $4 + 1 + 0 =$ | $6 + 2 + 2 =$ |
| $2 + 2 + 3 =$ | $3 + 0 + 4 =$ | $5 + 2 + 2 =$ |
| $2 + 4 + 1 =$ | $4 + 4 + 2 =$ | $4 + 5 + 3 =$ |

g. ciringi mîrongo îtaano

h. ciringi îgana

i. ciringi magana maîrî

j. ciringi magana mataano

k. ciringi ngiri îmwê

### Mbia cia mûthere



ciringi  
mîroongo  
yîîrî



ciringi  
îkûmi



ciringi  
itaano



ciringi  
îmwê

#### 4. Mbia cia Kenya

##### Tûtûmagîra mbia mîthemba yîîrî

Mbia cia mathangû na cia mûthere.

Mbia ira twîthagîrwa tûrî nacio

- cumuni
- ciringi îmwê
- ciringi itaano
- ciringi îkûmi
- ciringi mîrongo yîîrî
- ciringi mîrongo îna

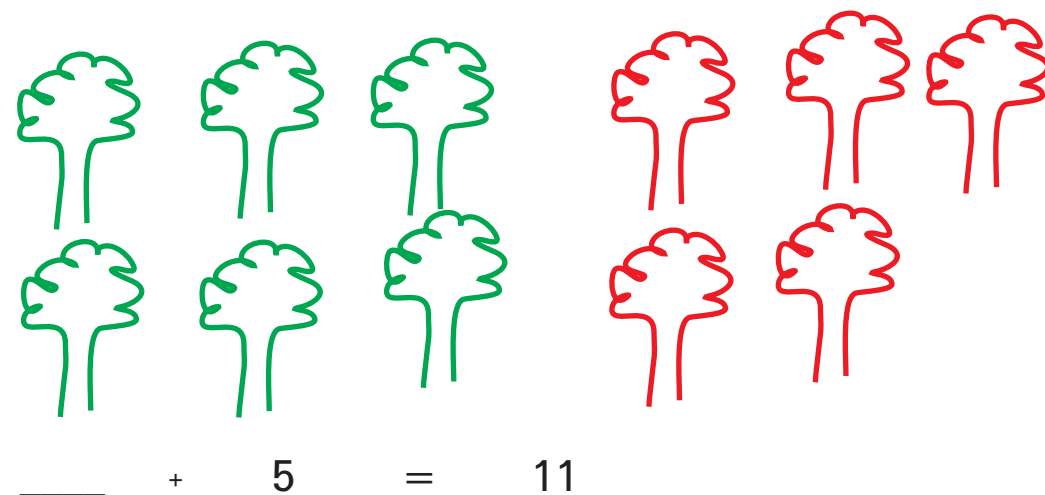
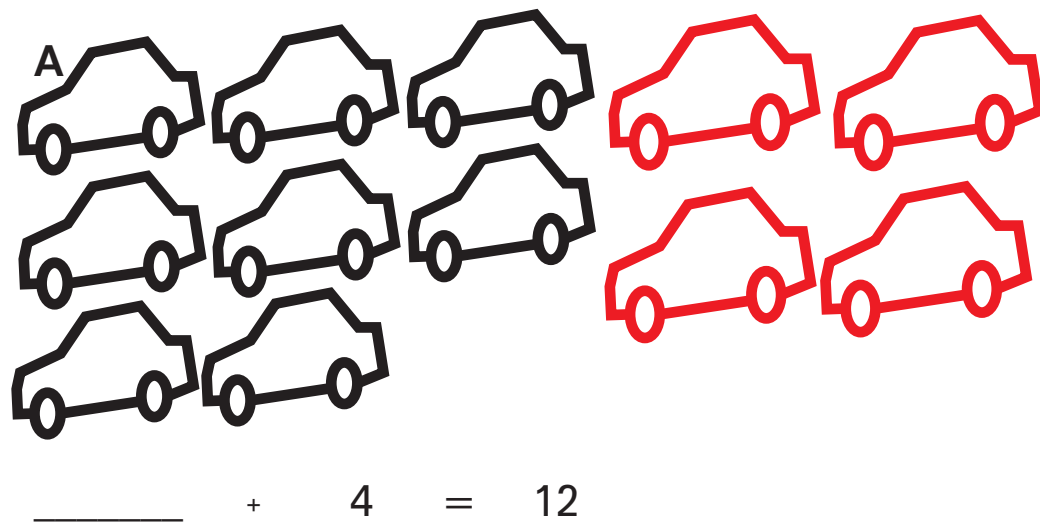
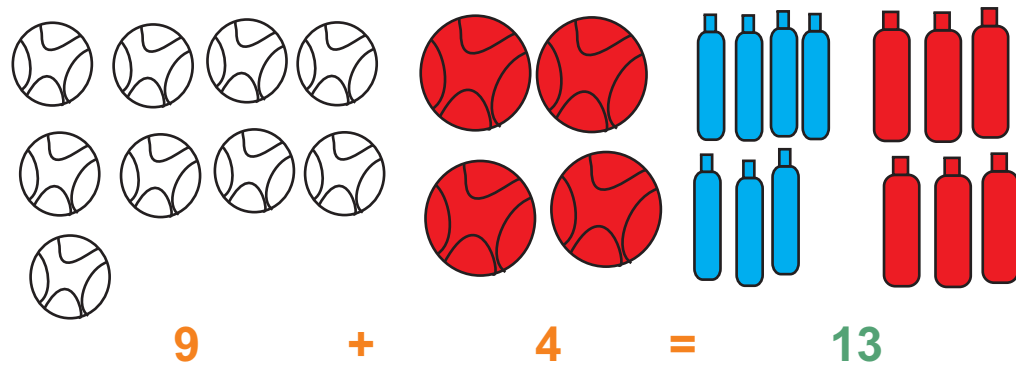
| B             |               |               |
|---------------|---------------|---------------|
| $1 + 2 + 3 =$ | $6 + 7 + 3 =$ | $2 + 4 + 2 =$ |
| $3 + 8 + 7 =$ | $7 + 7 + 2 =$ | $4 + 6 + 3 =$ |
| $4 + 6 + 5 =$ | $2 + 4 + 8 =$ | $6 + 5 + 6 =$ |
| $5 + 4 + 5 =$ | $7 + 3 + 2 =$ | $5 + 8 + 5 =$ |

| C         |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 7         | 3         | 9         | 9         | 4         | 5         |
| 2         | 5         | 5         | 5         | 3         | 0         |
| <u>+3</u> | <u>+2</u> | <u>+2</u> | <u>+3</u> | <u>+2</u> | <u>+3</u> |
| _____     | _____     | _____     | _____     | _____     | _____     |

| D         |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|
| 8         | 3         | 4         | 9         | 9         |
| 6         | 4         | 7         | 2         | 2         |
| <u>+4</u> | <u>+6</u> | <u>+3</u> | <u>+0</u> | <u>+7</u> |
| _____     | _____     | _____     | _____     | _____     |

| 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> |
| _____     | _____     | _____     | _____     | _____     | _____     |

### C. Ûyûrîria naamba ira ikûûra ûgîtaraga mbica



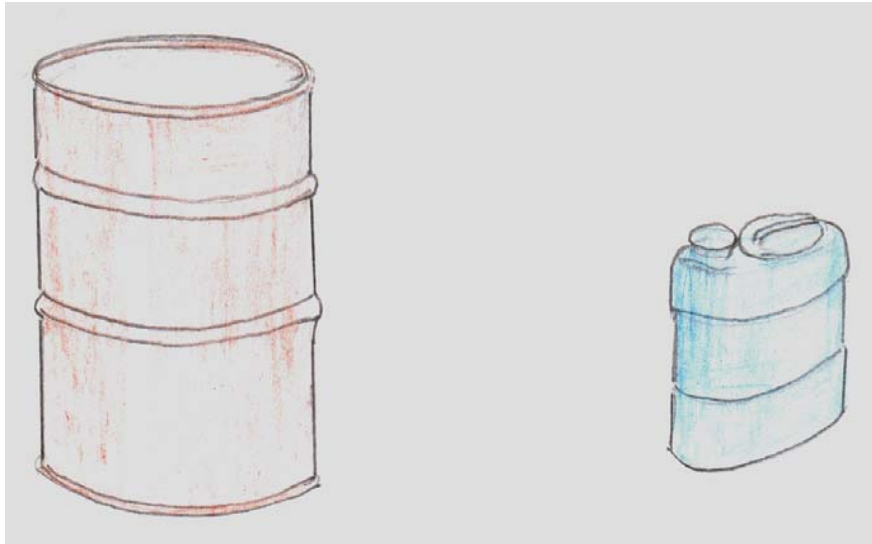
b. Gîkombe na njaagi i kîrîkû kîrî na rûûyî rwingî?



cûûba

kîraî

I mbi îrî na rûûyî rûniini na bionthe i biûyûru?



îtaangi

mûtuûngi

Îtaangi rîrî rîûyûrua i mîtuûngi îno îtaano.

Kwogû îtaangi nwa rîikîrwe gîintû gîkiingî nkûruki ya mûtuûngi.

a. Gîkombe na njaagi i kîrîkû kîrî na rûûyî rwingî?

$$\begin{array}{c} \text{|||||} \quad \text{||||} \\ 14 \end{array} + \begin{array}{c} \text{||||} \\ \underline{\hspace{1cm}} \end{array} = 18$$

$$\begin{array}{c} \text{|||||} \quad \text{||} \\ \underline{\hspace{1cm}} \end{array} + \begin{array}{c} \text{|||||} \\ 7 \end{array} = 19$$

**B**

$$3 + \_ = 8$$

$$6 + \_ = 18$$

$$4 + \_ = 19$$

$$7 + \_ = 14$$

$$6 + \_ = 16$$

$$8 + \_ = 17$$

$$4 + \_ = 19$$

$$15 + \_ = 15$$

$$11 + \_ = 12$$

**C**

$$4 + \_ = 11$$

$$2 + \_ = 16$$

$$\_ + 6 = 13$$

$$\_ + 7 = 12$$

$$\_ + 8 = 11$$

$$\_ + 9 = 17$$

$$\_ + 11 = 16$$

$$\_ + 10 = 14$$

$$\_ + 10 = 15$$

**D**

$$5 + \_ = 12$$

$$\_ + 0 = 13$$

$$3 + \_ = 12$$

$$7 + \_ = 18$$

$$5 + \_ = 14$$

$$3 + \_ = 15$$

$$12 + \_ = 16$$

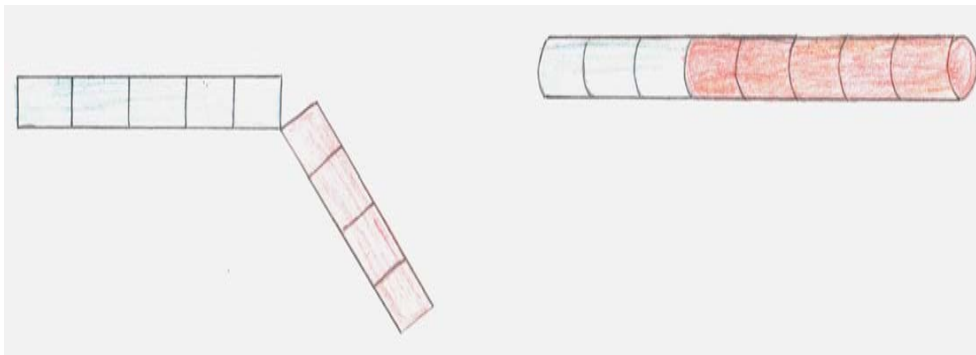
$$3 + \_ = 17$$

$$10 + \_ = 19$$



## D. Ûyûrîria naamba ira ikûûra.

### Ngerekano



$$9 - \square = 5$$

$$8 - \square = 3$$

$$8 - \square = 0$$

$$9 - \square = 7$$

$$6 - \square = 4$$

$$8 - \square = 6$$

$$9 - \square = 6$$

$$2 - \square = 1$$

$$5 - \square = 1$$

$$8 - \square = 4$$

$$3 - \square = 2$$

$$4 - \square = 3$$

a. Giciko na thaani

b. Ibuku rîa kwandîka na rîa mutambo

c. Mbuuti na ruura

d. Karamu na mbuuti

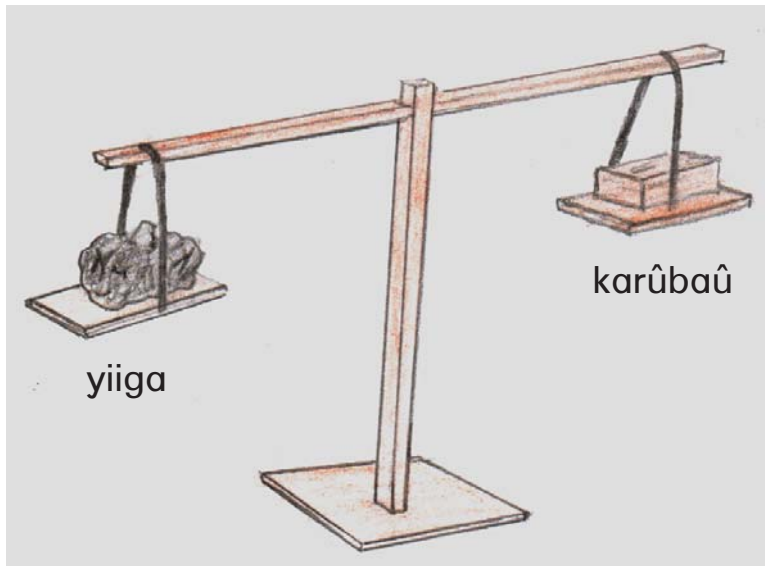
e. Ndacita na ruura

Kiirû ya cukarî na baamba n'îrîkû ndito?

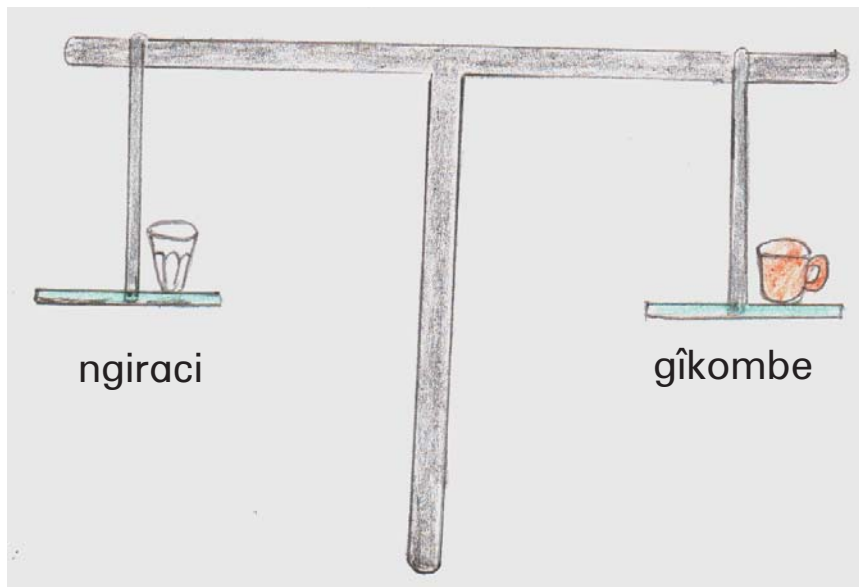
### 3. Kûthima mûgana wa gîntû ûgîtûmagîra into mwanya mwanya

Kabûûyû gatiganîra rûûyî rwa mûtûngi.

Gîntû kîgîiyaga mûgana wa rûûyî kana gîntû kîingî kûringana na ûnene kana ûniini bwa kîo.



Yiiga irîo rîrito kîrî karûbaaû



Ngiraci na gîkombe i biganenie ûrito.

Uga kîra kîrito kana kîûthû ûgîtûmagîra kîthimi.

## Ûyûrîria naamba ira i kûûra

**A**

$$8 + 7 = \underline{\quad}$$

$$9 + \underline{\quad} = 18$$

$$16 - 7 = \underline{\quad}$$

$$\underline{\quad} - 8 = 7$$

$$5 + 9 = \underline{\quad}$$

$$\underline{\quad} + 6 = 15$$

$$13 + \underline{\quad} = 7$$

$$15 - 9 = \underline{\quad}$$

$$9 + \underline{\quad} = 9$$

$$0 + 9 = \underline{\quad}$$

$$9 + 0 = \underline{\quad}$$

$$9 - \underline{\quad} = 0$$

**B**

$$9 + 3 = \underline{\quad}$$

$$12 - 9 = \underline{\quad}$$

$$3 + \underline{\quad} = 12$$

$$12 - 3 = \underline{\quad}$$

$$6 + 7 = \underline{\quad}$$

$$12 - 6 = \underline{\quad}$$

$$\underline{\quad} + 6 = 12$$

$$12 - 6 = \underline{\quad}$$

$$7 + 9 = \underline{\quad}$$

$$16 - \underline{\quad} = 9$$

$$9 + \underline{\quad} = 16$$

$$16 - 9 = \underline{\quad}$$



**C**

$7 + 6 = \underline{\quad}$

$13 - \underline{\quad} = 6$

$6 + \underline{\quad} = 13$

$13 - \underline{\quad} 0 = 7$

$13 - \underline{\quad} = 5$

$8 + 5 = \underline{\quad}$

$\underline{\quad} + 5 = 13$

$\underline{\quad} - 5 = 13$

$30 + 30 = \underline{\quad}$

$60 - \underline{\quad} = 30$

$\underline{\quad} - 30 = 30$

$30 + 20 = \underline{\quad}$

**D**

$13 + 2 = \underline{\quad}$

$\underline{\quad} + 13 = 15$

$15 - \underline{\quad} = 12$

$15 - \underline{\quad} = 3$

$10 + 6 = \underline{\quad}$

$\underline{\quad} + 10 = 16$

$\underline{\quad} - 10 = 6$

$16 - \underline{\quad} = 10$

$3 + 6 = \underline{\quad}$

$\underline{\quad} + 3 = 9$

$9 - \underline{\quad} = 6$

$\underline{\quad} - 6 = 3$

**2. Kûthima ûrito ûgîtûmagîra into mwanya mwanya**

ûrito nwabuthimwe na njîra I nyingî n'ûntû bwa kûmenya ûrito kana ûûthû bwa into nkûrani.

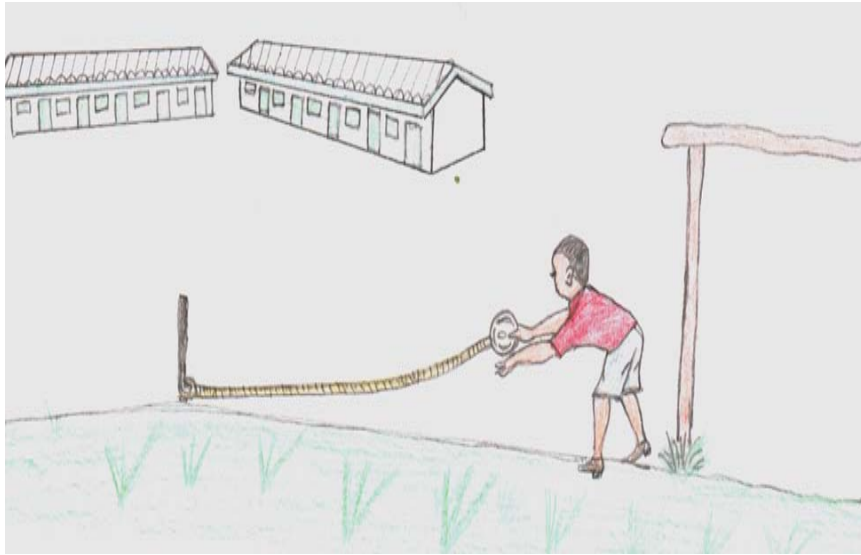
a) ûkîria yiiga rîmwe rînene na njara îmwe na rîingî rîniini na njara ino yîingî.

I rîrîkû rîrito na i rîrîkû rîûthû?

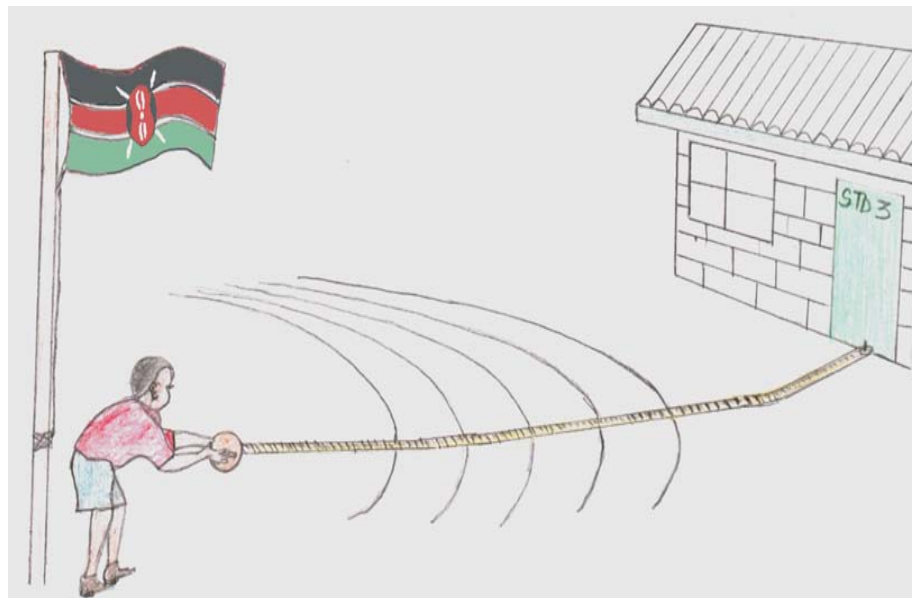
**Gûûkîria maiga maîrî marî na ûrito mwanya**



Thima into mwanya mwanya ûgîtûmagîra kîthimi ta gîkî



Kûthima ûraaya bwa kîeni



Kûthima ûraaya bwa kuuma kîraciini  
kûthi acemburî

## Kûringanîra na kûrutithania

**A**

$$10 + 10 =$$

$$30 + 10 =$$

$$10 + 20 =$$

$$20 + 30 =$$

$$30 + 30 =$$

**B**

$$70 - 60 =$$

$$60 - 40 =$$

$$10 - 10 =$$

$$80 - 60 =$$

$$50 - 60 =$$

**C**

|                                                     |                                                     |                                                     |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| $\begin{array}{r} 30 \\ + 10 \\ \hline \end{array}$ | $\begin{array}{r} 30 \\ + 50 \\ \hline \end{array}$ | $\begin{array}{r} 20 \\ + 70 \\ \hline \end{array}$ | $\begin{array}{r} 80 \\ - 80 \\ \hline \end{array}$ |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|

|                                                     |                                                     |                                                     |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| $\begin{array}{r} 60 \\ + 10 \\ \hline \end{array}$ | $\begin{array}{r} 20 \\ + 30 \\ \hline \end{array}$ | $\begin{array}{r} 20 \\ + 20 \\ \hline \end{array}$ | $\begin{array}{r} 70 \\ - 30 \\ \hline \end{array}$ |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|

|                                                     |                                                     |                                                     |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| $\begin{array}{r} 80 \\ - 30 \\ \hline \end{array}$ | $\begin{array}{r} 50 \\ - 30 \\ \hline \end{array}$ | $\begin{array}{r} 90 \\ - 30 \\ \hline \end{array}$ | $\begin{array}{r} 70 \\ - 40 \\ \hline \end{array}$ |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|

$70 + 10 =$

$40 + 20 =$

$30 + 60 =$

$30 - 20 =$

$60 - 40 =$

$50 - 20 =$

## Kûringanîra

### A

$$\begin{array}{r} 12 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 48 \\ \hline \end{array}$$

### B

$$\begin{array}{r} 25 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 48 \\ \hline \end{array}$$

### C

$$\begin{array}{r} 44 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$$

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

### D

$$\begin{array}{r} 72 \\ + 6 \\ \hline \end{array}$$

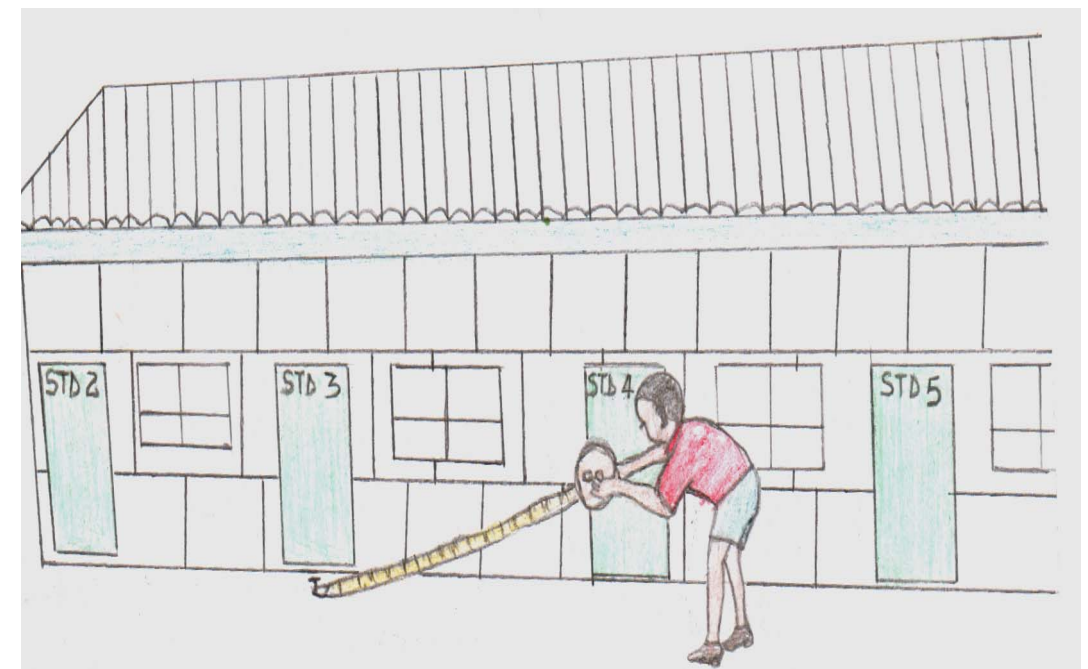
$$\begin{array}{r} 13 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ + 13 \\ \hline \end{array}$$

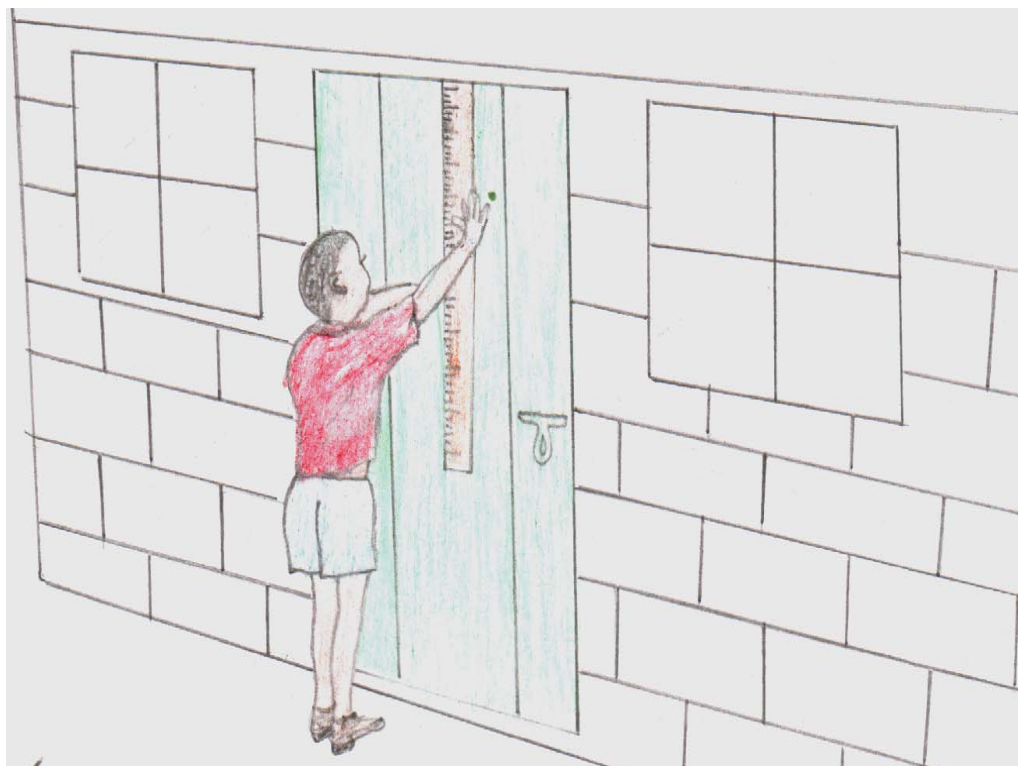
$$\begin{array}{r} 27 \\ + 52 \\ \hline \end{array}$$

## Uma nja. Tûmîra mita kûthima:

- Ûraaya bwa kîeni kîenu
- Ûraaya bwa kuuma kîraciini mwanka acemburî
- Ûraaya bwa kuuma kîraciini kîenu kûthi kîraci kîa bina.



Kûthima ûraaya kuuma kîraci kûthi kîra kîingî.



Kûthima ûraaya bwa mûrango

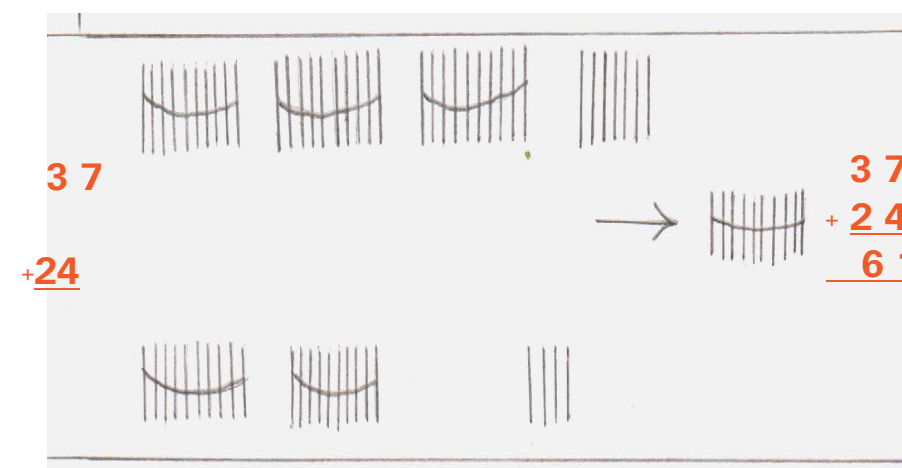


Kûthima wariî bwa mûrango

**E**

|             |             |             |
|-------------|-------------|-------------|
| $52 + 26 =$ | $25 + 53 =$ | $19 + 40 =$ |
| $40 + 30 =$ | $31 + 46 =$ | $61 + 23 =$ |
| $42 + 32 =$ | $38 + 61 =$ |             |

### E. Kûringanîra



**A**

|                                                     |                                                     |                                                     |                                                     |                                                    |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|
| $\begin{array}{r} 38 \\ + 15 \\ \hline \end{array}$ | $\begin{array}{r} 73 \\ + 12 \\ \hline \end{array}$ | $\begin{array}{r} 46 \\ + 34 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ + 59 \\ \hline \end{array}$ | $\begin{array}{r} 77 \\ + 2 \\ \hline \end{array}$ |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|

**B**

|                                                     |                                                    |                                                     |                                                     |                                                     |
|-----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| $\begin{array}{r} 68 \\ + 16 \\ \hline \end{array}$ | $\begin{array}{r} 74 \\ + 8 \\ \hline \end{array}$ | $\begin{array}{r} 55 \\ + 27 \\ \hline \end{array}$ | $\begin{array}{r} 49 \\ + 29 \\ \hline \end{array}$ | $\begin{array}{r} 57 \\ + 38 \\ \hline \end{array}$ |
|-----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|

**C**

$$\begin{array}{r} 46 \\ + 28 \\ \hline \end{array} \quad \begin{array}{r} 28 \\ + 42 \\ \hline \end{array} \quad \begin{array}{r} 58 \\ + 22 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ + 25 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ + 26 \\ \hline \end{array}$$

**D**

$$\begin{array}{r} 65 \\ + 26 \\ \hline \end{array} \quad \begin{array}{r} 34 \\ + 48 \\ \hline \end{array} \quad \begin{array}{r} 26 \\ + 76 \\ \hline \end{array} \quad \begin{array}{r} 24 \\ + 47 \\ \hline \end{array} \quad \begin{array}{r} 79 \\ + 12 \\ \hline \end{array}$$

**E**

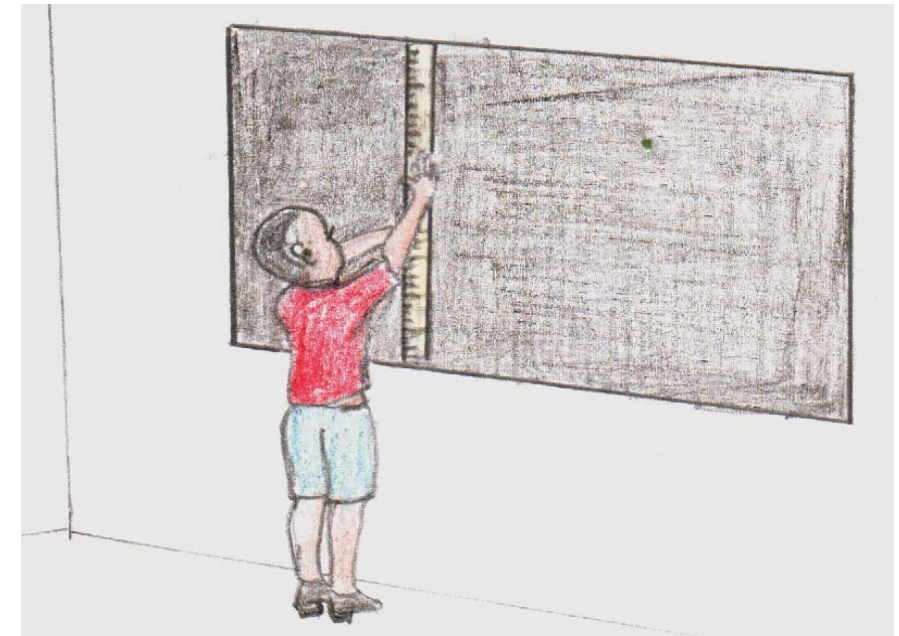
$$\begin{array}{r} 29 \\ + 17 \\ \hline \end{array} \quad \begin{array}{r} 34 \\ + 28 \\ \hline \end{array} \quad \begin{array}{r} 46 \\ + 36 \\ \hline \end{array} \quad \begin{array}{r} 27 \\ + 27 \\ \hline \end{array} \quad \begin{array}{r} 73 \\ + 24 \\ \hline \end{array}$$

**F**

$$\begin{array}{r} 73 \\ + 6 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ + 67 \\ \hline \end{array} \quad \begin{array}{r} 59 \\ + 37 \\ \hline \end{array} \quad \begin{array}{r} 25 \\ + 68 \\ \hline \end{array} \quad \begin{array}{r} 29 \\ + 18 \\ \hline \end{array}$$

**G**

|             |             |             |
|-------------|-------------|-------------|
| $38 + 27 =$ | $43 + 48 =$ | $66 + 16 =$ |
| $56 + 27 =$ | $32 + 17 =$ | $28 + 18 =$ |
| $29 + 27 =$ | $25 + 38 =$ |             |



Kûthima wariî bwa kîbaaû wîtia



Kûthima ûraaya bwa kîraci wîtia

## GÎCUNCÎ KÎA BITHATÛ

### KÎONGO GÎA KÎTHOOMO: Kûthima

#### A. Mita ta kîthimi kîa mma

Rîra tûkûthima ûraaya kana ûkubî tûtûmagîra **Mita**.

#### 1. Tûmîra mita kûthima:

a. ûraaya bwa kîraci kîenu wîtia îgûrû

b. ûkubi bwa kîraci kîenu

c. wariî bwa kîbaû kîenu

d. ûraaya bwenu

e. ûraaya na ûkubi bwa mûrango wenu

f. ûraaya na ûkubî bwa meetha ya kîraci kîenu

### Kûringanîra:

#### A

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 17    | 45    | 16    | 53    | 84    |
| + 35  | + 57  | + 83  | + 18  | + 16  |
| _____ | _____ | _____ | _____ | _____ |

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 44    | 45    | 19    | 55    | 65    |
| + 37  | + 28  | + 41  | + 28  | + 15  |
| _____ | _____ | _____ | _____ | _____ |

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 25    | 18    | 64    | 35    | 63    |
| + 16  | + 17  | + 19  | + 45  | + 19  |
| _____ | _____ | _____ | _____ | _____ |

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 25    | 55    | 35    | 62    | 45    |
| + 25  | + 18  | + 29  | + 29  | + 28  |
| _____ | _____ | _____ | _____ | _____ |

**B**

$43 + 46 =$

$23 + 27 =$

$36 + 28 =$

$37 + 44 =$

$28 + 13 =$

$44 + 28 =$

$71 + 9 =$

$82 + 9 =$

$26 + 46 =$

$70 + 19 =$

$36 + 25 =$

$39 + 28 =$

$25 + 65 =$

$37 + 53 =$

$18 + 68 =$

$24 + 27 =$

$57 + 17 =$

$34 + 26 =$

**3.** 50, 45, 40, 35, 30, \_\_

$50 - 5 = 45$

$45 - 5 = \underline{\quad}$

$40 - 5 = \underline{\quad}$

$35 - 5 = \underline{\quad}$

$30 - 5 = \underline{\quad}$



## Ceria naamba ira ikûûra mataaneni

1. 18, 15, 12, 9, 6, \_\_

$$18 - 3 = 15$$

$$15 - 3 = 12$$

$$12 - 3 = \underline{\quad}$$

$$9 - 3 = \underline{\quad}$$

$$6 - 3 = \underline{\quad}$$

2. 20, 18, 16, 14, \_\_

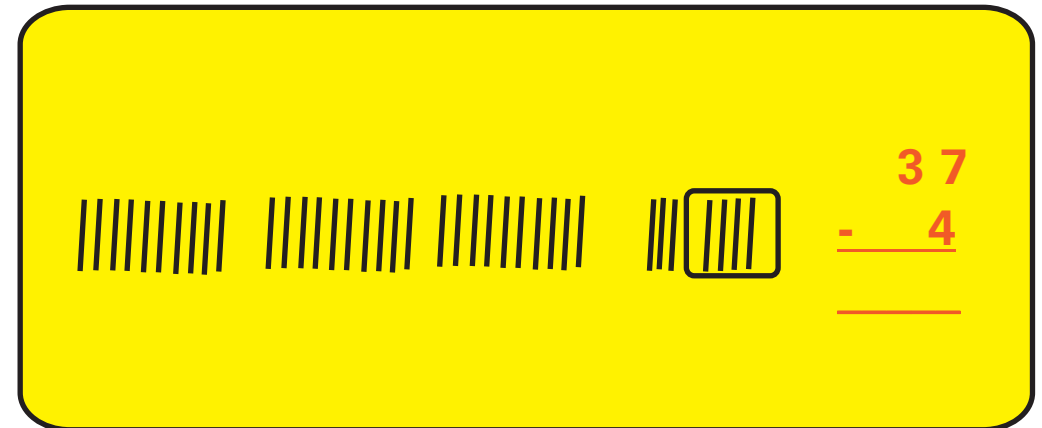
$$20 - 2 = 18$$

$$18 - 2 = \underline{\quad}$$

$$16 - 2 = \underline{\quad}$$

$$14 - 2 = \underline{\quad}$$

## F. Kûrutithania matigari kuuma kîrî makûmi ûtakûroomba:



A

$$\begin{array}{r} 27 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - 1 \\ \hline \end{array}$$

B

$$\begin{array}{r} 93 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ - 6 \\ \hline \end{array}$$

C

$$\begin{array}{r} 37 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ - 1 \\ \hline \end{array}$$



D

|                                                    |                                                    |                                                    |                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| $\begin{array}{r} 41 \\ - 1 \\ \hline \end{array}$ | $\begin{array}{r} 33 \\ - 2 \\ \hline \end{array}$ | $\begin{array}{r} 45 \\ - 2 \\ \hline \end{array}$ | $\begin{array}{r} 54 \\ - 3 \\ \hline \end{array}$ | $\begin{array}{r} 97 \\ - 3 \\ \hline \end{array}$ |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|

E

|                                                    |                                                    |                                                    |                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| $\begin{array}{r} 18 \\ - 3 \\ \hline \end{array}$ | $\begin{array}{r} 37 \\ - 2 \\ \hline \end{array}$ | $\begin{array}{r} 39 \\ - 3 \\ \hline \end{array}$ | $\begin{array}{r} 46 \\ - 3 \\ \hline \end{array}$ | $\begin{array}{r} 79 \\ - 7 \\ \hline \end{array}$ |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|

F

|            |            |            |
|------------|------------|------------|
| $39 - 5 =$ | $37 - 3 =$ | $88 - 6 =$ |
| $57 - 5 =$ | $48 - 5 =$ | $99 - 3 =$ |

4. 0, 5, 10, 15, 20, \_\_

5. 10, 13, 16, 19, \_\_

6. 0, 1, 2, 3, 4, 5, \_\_

**Ceria naamba îra îkûûra mataaneni  
ûkîrutithanagia**

**Ngerekano:**

10, 8, 6, 4, \_\_

$10 - 2 = 8$        $6 - 2 = 4$

$4 - 2 = \underline{2}$

$8 - 2 = 6$

$6 - 2 = 4$

$4 - 2 = 2$

I naamba irîkû ithingatîite mataane mama?

0, 3, 6, 9, 12, \_\_

$$0 + 3 = 3$$

$$3 + 3 = 6$$

$$6 + 3 = 9$$

$$9 + 3 = 12$$

$$12 + 3 = \underline{15}$$

naamba îra îthingatîite nî 15

I naamba irîkû ithingatîite mataaneni mama?

1. 0, 3, 6, 9, 12, 15, \_\_

2. 1, 4, 7, 10, \_\_

3. 4, 6, 8, 10, 12, \_\_

G. Kûrutithania naamba kuuma kîrî  
naamba cîrî ûtakûroomba:

matigari mûgwanja kûruta

8 7

matigari matano = matigari 2.

- 3 5

5 2

makûmi manaana kûruta

makûmi mathatû = makûmi 5

**Kwogu 8 7 - 3 5 = 5 2**

A

6 9

4 8

7 7

5 6

8 4

- 2 4

- 2 3

- 3 3

- 2 2

- 6 1

B

5 9

9 7

2 9

7 8

6 3

- 4 5

- 6 2

- 1 5

- 5 3

- 5 2

C

4 6

5 8

6 7

9 7

3 9

- 3 5

- 3 3

- 2 7

- 8 5

- 2 7

D

$$\begin{array}{r} 22 \\ - 11 \\ \hline \end{array} \quad \begin{array}{r} 33 \\ - 21 \\ \hline \end{array} \quad \begin{array}{r} 66 \\ - 22 \\ \hline \end{array} \quad \begin{array}{r} 53 \\ - 41 \\ \hline \end{array} \quad \begin{array}{r} 76 \\ - 34 \\ \hline \end{array}$$

E

|             |             |             |
|-------------|-------------|-------------|
| $23 - 12 =$ | $89 - 55 =$ | $46 - 15 =$ |
| $37 - 24 =$ | $68 - 37 =$ | $99 - 99 =$ |

H. Kûrutithania makûmi kuuma kîrî makûmi ûtakûroomba

A

$$\begin{array}{r} 34 \\ - 14 \\ \hline \end{array} \quad \begin{array}{r} 45 \\ - 24 \\ \hline \end{array} \quad \begin{array}{r} 56 \\ - 13 \\ \hline \end{array} \quad \begin{array}{r} 67 \\ - 22 \\ \hline \end{array} \quad \begin{array}{r} 99 \\ - 33 \\ \hline \end{array}$$

B

$$\begin{array}{r} 28 \\ - 18 \\ \hline \end{array} \quad \begin{array}{r} 57 \\ - 17 \\ \hline \end{array} \quad \begin{array}{r} 71 \\ - 11 \\ \hline \end{array} \quad \begin{array}{r} 83 \\ - 12 \\ \hline \end{array} \quad \begin{array}{r} 78 \\ - 53 \\ \hline \end{array}$$

C

$$\begin{array}{r} 47 \\ - 21 \\ \hline \end{array} \quad \begin{array}{r} 58 \\ - 30 \\ \hline \end{array} \quad \begin{array}{r} 67 \\ - 40 \\ \hline \end{array} \quad \begin{array}{r} 59 \\ - 50 \\ \hline \end{array} \quad \begin{array}{r} 93 \\ - 71 \\ \hline \end{array}$$

Ceria naamba îra îkûûra mataaneni mama

22, 23, 25, 28, 32, 37, 43, 50, \_\_

$$22 + 1 = 23$$

$$23 + 2 = \underline{\quad}$$

$$25 + 3 = \underline{\quad}$$

$$28 + 4 = \underline{\quad}$$

$$32 + 5 = \underline{\quad}$$

$$37 + 6 = \underline{\quad}$$

$$43 + 7 = \underline{\quad}$$

$$50 + 8 = \underline{\quad}$$

## Ngerekano:

2, 4, 6, 8, 10 kana 10, 8, 6, 4, 2, 0

$$1 + 2 = 3$$

$$3 + 2 = 5$$

Ceria naamba îra îkûûra mataaneni mama

1, 3, 5, 7, 9, 11, \_\_

$$1 + 2 = 3$$

$$3 + 2 = 5$$

$$5 + 2 = 7$$

$$7 + 2 = 9$$

$$9 + 2 = 11$$

$$11 + 2 = \underline{\hspace{1cm}}$$

## D

|            |            |            |            |            |
|------------|------------|------------|------------|------------|
| 35         | 54         | 58         | 68         | 91         |
| <u>-34</u> | <u>-14</u> | <u>-31</u> | <u>-58</u> | <u>-91</u> |
| _____      | _____      | _____      | _____      | _____      |

## E

|            |            |            |            |            |
|------------|------------|------------|------------|------------|
| 27         | 53         | 63         | 23         | 78         |
| <u>-12</u> | <u>-13</u> | <u>-63</u> | <u>-11</u> | <u>-58</u> |
| _____      | _____      | _____      | _____      | _____      |

## F

$$59 - 19 = \quad \quad \quad 55 - 44 = \quad \quad \quad 93 - 20 =$$

$$28 - 18 = \quad \quad \quad 68 - 38 = \quad \quad \quad 87 - 83 =$$

## Kûruta:

### A

$$49 - 33 =$$

$$76 - 45 =$$

$$70 - 20 =$$

$$88 - 53 =$$

$$99 - 76 =$$

### B

$$58 - 23 =$$

$$45 - 20 =$$

$$79 - 49 =$$

$$69 - 54 =$$

$$89 - 63 =$$

### C

$$34 - 22 =$$

$$67 - 43 =$$

$$98 - 90 =$$

$$77 - 42 =$$

$$69 - 24 =$$

**D**

|                                                    |                                                    |                                                    |                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| $\begin{array}{r} 29 \\ -19 \\ \hline \end{array}$ | $\begin{array}{r} 65 \\ -23 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ -12 \\ \hline \end{array}$ | $\begin{array}{r} 47 \\ -33 \\ \hline \end{array}$ | $\begin{array}{r} 49 \\ -10 \\ \hline \end{array}$ |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|

**E**

|                                                    |                                                    |                                                    |                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| $\begin{array}{r} 74 \\ -52 \\ \hline \end{array}$ | $\begin{array}{r} 67 \\ -67 \\ \hline \end{array}$ | $\begin{array}{r} 82 \\ -80 \\ \hline \end{array}$ | $\begin{array}{r} 78 \\ -34 \\ \hline \end{array}$ | $\begin{array}{r} 65 \\ -60 \\ \hline \end{array}$ |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|

**F**

|                                                    |                                                    |                                                    |                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| $\begin{array}{r} 77 \\ -33 \\ \hline \end{array}$ | $\begin{array}{r} 54 \\ -33 \\ \hline \end{array}$ | $\begin{array}{r} 55 \\ -52 \\ \hline \end{array}$ | $\begin{array}{r} 86 \\ -46 \\ \hline \end{array}$ | $\begin{array}{r} 78 \\ -52 \\ \hline \end{array}$ |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|

**Ringanîra:**

**Ngerekano:**

|                                                                      |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| $\begin{array}{r} \text{A. } 100 \\ + 200 \\ \hline 300 \end{array}$ | $\begin{array}{r} \text{B. } 434 \\ + 232 \\ \hline 666 \end{array}$ | $\begin{array}{r} \text{C. } 111 \\ + 888 \\ \hline 999 \end{array}$ |
|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|

$$10 \div 5 = 2$$

$$15 \div 3 = 5$$

$$21 \div 7 = 3$$

$$25 \div 5 = 5$$

**A**

$$14 \div 2 =$$

$$9 \div 3 =$$

$$12 \div 4 =$$

$$16 \div 2 =$$

$$2 \div 3 =$$

$$20 \div 4 =$$

$$20 \div 2 =$$

$$21 \div 3 =$$

$$16 \div 4 =$$

**B**

$$15 \div 5 =$$

$$14 \div 7 =$$

$$25 \div 5 =$$

$$20 \div 5 =$$

$$30 \div 5 =$$

$$36 \div 6 =$$

$$40 \div 2 =$$

$$6 \div 3 =$$

**Mataane ma naamba rîra tûkûringanîra na rîra tûkûruta.**

Mataane i gwicokera kwa naamba îkîongerekaga kana îkînyiaga na mûbango ûmwe.

$$8 \div 2 = 4$$

$$5 \div 5 = 1$$

$$9 \div 3 = 3$$

$$12 \div 2 = 6$$

### Gaîra

$$6 \div 3 =$$

$$5 \div 5 =$$

$$14 \div 7 =$$

$$6 \div 2 =$$

$$24 \div 6 =$$

$$16 \div 2 =$$

$$4 \div 4 =$$

$$10 \div 5 = 2$$

$$21 \div 7 = 3$$

### A

$$14 \div 2 =$$

$$16 \div 2 =$$

$$20 \div 2 =$$

### B

$$15 \div 5 =$$

$$20 \div 5 =$$

$$40 \div 2 =$$

$$9 \div 3 =$$

$$12 \div 3 =$$

$$6 \div 2 =$$

$$12 \div 6 =$$

$$15 \div 3 =$$

$$20 \div 4 =$$

$$16 \div 4 =$$

$$15 \div 3 = 5$$

$$25 \div 5 = 5$$

$$9 \div 3 =$$

$$12 \div 3 =$$

$$21 \div 3 =$$

$$14 \div 7 =$$

$$30 \div 5 =$$

$$6 \div 3 =$$

$$24 \div 8 =$$

$$30 \div 6 =$$

$$20 \div 5 =$$

$$8 \div 4 =$$

$$10 \div 2 =$$

$$18 \div 9 =$$

$$36 \div 6 =$$

$$12 \div 4 =$$

$$20 \div 4 =$$

$$16 \div 4 =$$

$$25 \div 5 =$$

$$36 \div 6 =$$

### Ringanîra naamba ino:

|          |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|
| <b>A</b> | 200   | 222   | 214   | 416   | 263   |
|          | + 100 | + 333 | + 121 | + 361 | + 403 |
|          | _____ | _____ | _____ | _____ | _____ |

|          |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|
| <b>B</b> | 416   | 516   | 712   | 111   | 666   |
|          | + 482 | + 323 | + 222 | + 222 | + 111 |
|          | _____ | _____ | _____ | _____ | _____ |

|          |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|
| <b>C</b> | 20    | 460   | 700   | 100   | 444   |
|          | + 300 | + 231 | + 214 | + 800 | + 444 |
|          | _____ | _____ | _____ | _____ | _____ |

|          |             |             |
|----------|-------------|-------------|
| <b>D</b> | 333 + 222 = | 666 + 111 = |
|          | 345 + 123 = | 100 + 100 = |
|          | 323 + 232 = |             |

**Kûruta:**

**Ngerekano:**

897 matigari 7kûruta matigari 3 = 4

-543 makûmi 9 kûruta makûmi 4 = 5

354 magana 8kûruta magana 5 = 3

= 354.

**Rutithania:**

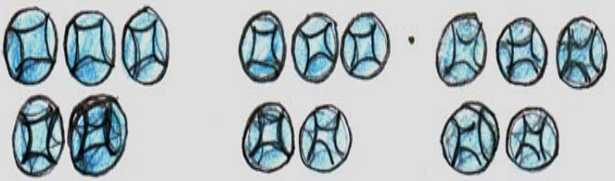
**A**    300    400    900    600    200  
       - 200   -100   -700   -300   -100  
       \_\_\_\_\_

**B**            390 - 120 =            220 - 110 =  
               460 - 220 =            980 - 880 =

**C**        283        756        979        666        899  
       - 121    - 525    - 879    - 555    - 898  
       \_\_\_\_\_

|        |    |   |   |
|--------|----|---|---|
| meembe | 6  | 3 | 3 |
| meembe | 8  |   |   |
| meembe | 10 |   |   |
| meembe | 12 |   |   |

**Gaira Gatûûra, Mûgambi, na Njerû biganeene.**


 $15 \div 3 =$


 $12 \div 3 =$


 $9 \div 3 =$

## Gaîra biganeene

Macunkwa 6 gaîra wîyî 2.



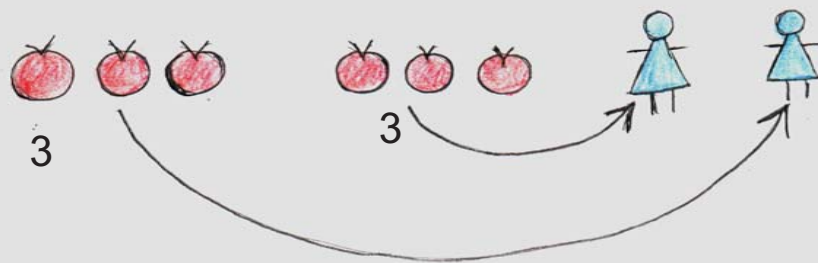
Mpîndî 12 gaîra twarî 3.



Nderemeende 7 gaîra twana



Mananaaci 8 gaîra antû 4.



Gaîra kayîra na kamene iganeene

## Ringanîra:

### Ngerekano:

127- matigari 7 kûringanîra na

+134 matigari 4 = 11

261 - andîka 1 ruungu rwa matigari

ûkamate 10 rîmwre

-ringanîra îkûmi rîmwre na

makûmi 2 na makûmi 3 = 6

-ringanîra îgana 1 na rîngî 1 = 2

= 261.

## Ringanîra naamba ino:

|          |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|
| <b>A</b> | 435   | 128   | 324   | 216   | 234   |
|          | +326  | +253  | +146  | +245  | +237  |
|          | _____ | _____ | _____ | _____ | _____ |

**B** 213 + 118 = 555 + 226 =

529 + 111 = 816 + 135 =

341 + 339 = 212 + 119 =



## Kûruta:

### Ngerekano:

252 -matigari 2 kûruta matigari 3

-123 bûtiûmbîka.

129 - roomba îkûmi 1 kuuma kûrî

matigari 5

- ringanîra îkûmi na matigari 2

ikinye 12

- rîru rutithania  $12 - 3 = 9$

- ûtigariirie makûmi 4, kwogu

makûmi 4 - makûmi 2 = 2

- magana 2 kûruta îgana 1 = 1

## Ugithia maita.

### Ngerekano:

$$10 + 10 + 10 + 10 + 10 = 5 \times 10 = 50$$

$$3 + 3 + 3 + 3 = 3 \times 4 = 12$$

$$5 + 5 + 5 + 5 + 5 = 5 \times 6 = 30$$

## Ugithia maita

### A

$$4 \times 5 = \quad 5 \times 10 = \quad 4 \times 2 =$$

$$5 \times 5 = \quad 3 \times 10 = \quad 2 \times 10 =$$

$$6 \times 10 = \quad 10 \times 7 = \quad 6 \times 10 =$$

### B

$$7 \times 10 = \quad 4 \times 4 = \quad 9 \times 10 = \quad 3 \times 10 =$$

$$6 \times 10 = \quad 1 \times 7 =$$

### C

|            |           |            |           |           |            |
|------------|-----------|------------|-----------|-----------|------------|
| 5          | 4         | 5          | 7         | 5         | 7          |
| <u>x10</u> | <u>x5</u> | <u>x10</u> | <u>x7</u> | <u>x6</u> | <u>x10</u> |
| _____      | _____     | _____      | _____     | _____     | _____      |

Ugithia maita

A

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| $1 \times 10 =$ | $6 \times 10 =$ | $2 \times 10 =$ |
| $7 \times 10 =$ | $3 \times 10 =$ | $8 \times 10 =$ |
| $3 \times 10 =$ | $9 \times 10 =$ | $4 \times 10 =$ |
| $5 \times 10 =$ |                 |                 |

B

|                |                 |                |
|----------------|-----------------|----------------|
| $1 \times 4 =$ | $6 \times 4 =$  | $2 \times 4 =$ |
| $8 \times 4 =$ | $3 \times 4 =$  | $9 \times 4 =$ |
| $4 \times 4 =$ | $10 \times 4 =$ |                |

C

|                |                |                 |
|----------------|----------------|-----------------|
| $1 \times 3 =$ | $5 \times 3 =$ | $2 \times 3 =$  |
| $2 \times 3 =$ | $6 \times 3 =$ | $3 \times 3 =$  |
| $7 \times 3 =$ | $4 \times 3 =$ | $10 \times 3 =$ |

Ruta:

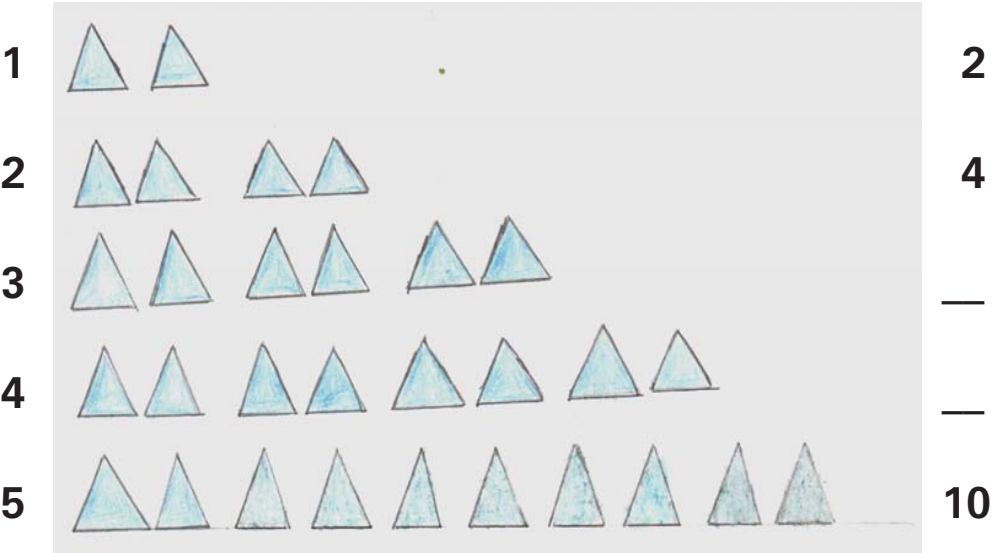
|   |         |        |        |        |        |
|---|---------|--------|--------|--------|--------|
| A | $332$   | $138$  | $222$  | $992$  | $262$  |
|   | $- 123$ | $-119$ | $-113$ | $-888$ | $-146$ |
|   | _____   | _____  | _____  | _____  | _____  |

B     $871 - 636 =$      $666 - 547 =$

$523 - 314 =$      $367 - 129 =$

$333 - 228 =$      $243 - 114 =$

Kuugithania maita kuuma imwe mwanka itaano: Gutaraniria ciirî ciirî.



1.  $2 =$

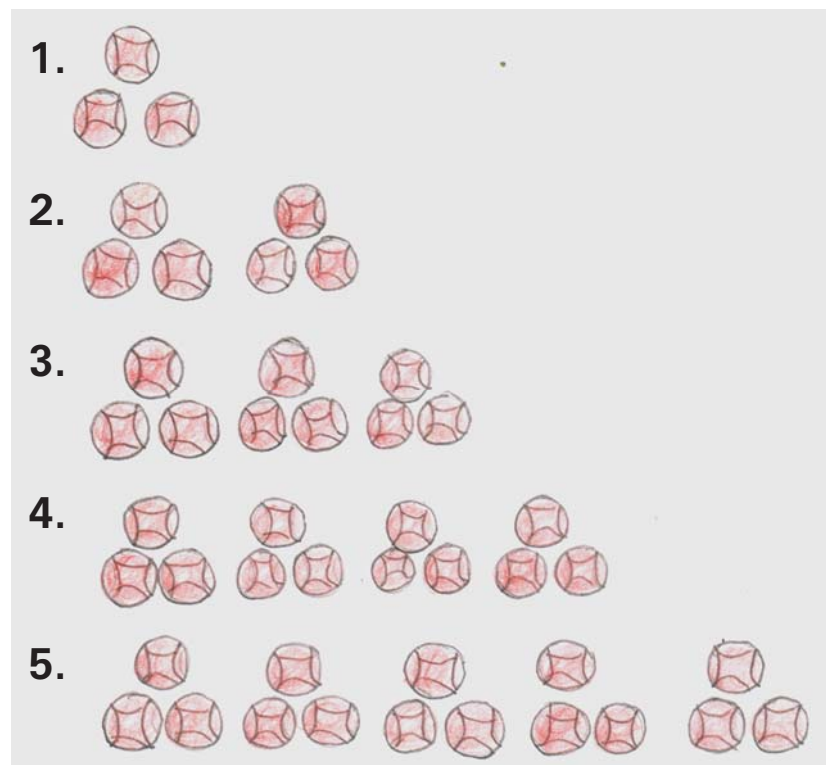
2.  $2 + 2 =$

3.  $2 + 2 + 2 =$

4.  $2 + 2 + 2 + 2 =$

5.  $2 + 2 + 2 + 2 + 2 = 10$

### Gutaranîria ithatû ithatû



Twârî 4 tûrî na biara bigana?

$\_ \times \_ = \_$

Ng'ombe 5 irî na matû magana?

$\_ \times \_ = \_$

Akûrû 10 barî na tûnyûa tûgana?

$\_ \times \_ = \_$

Tûbaka 3 tûrî na mîtitro îgana?

$\_ \times \_ = \_$

Twîyî 7 tûrî na njara Igana?

$\_ \times \_ = \_$

|          |                 |                 |                 |
|----------|-----------------|-----------------|-----------------|
| <b>D</b> | $4 \times 3 =$  | $3 \times 10 =$ | $5 \times 4 =$  |
|          | $4 \times 10 =$ | $3 \times 6 =$  | $7 \times 10 =$ |
|          | $2 \times 6 =$  |                 |                 |

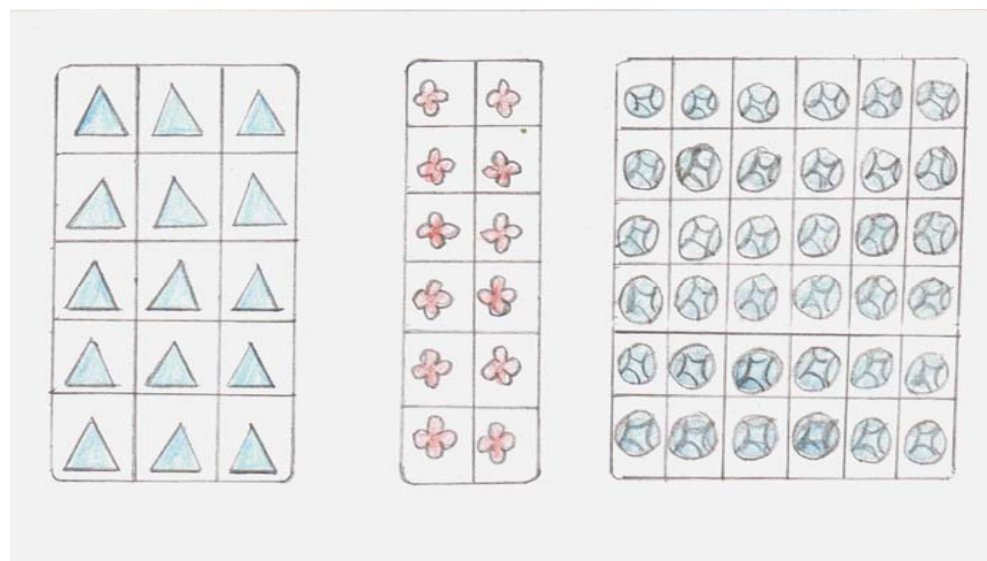
e)

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 10 \\ \hline \\ \hline \end{array}$$

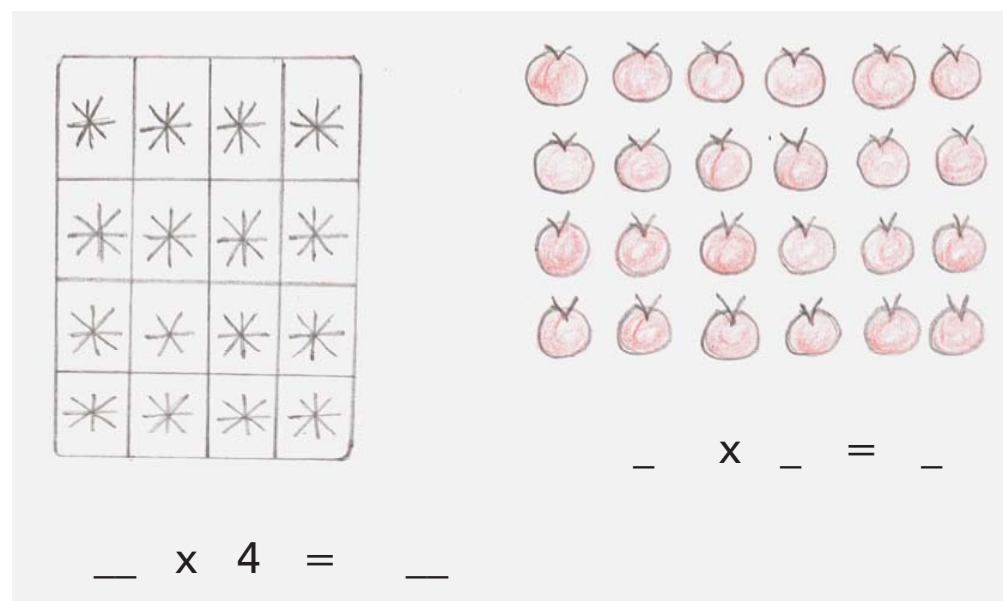
Ûyûrîria naamba ira itarîo



$$5 \times 3 = \_$$

$$\_ \times 2 = \_$$

$$6 \times \_ = \_$$



$$\_ \times 4 = \_$$

$$\_ \times \_ = \_$$

1.  $3 =$

2.  $3 + 3 =$

3.  $3 + 3 + 3 =$

4.  $3 + 3 + 3 + 3 =$

5.  $3 + 3 + 3 + 3 + 3 =$

## Gûtara cîrî cîrî na ithatû ithatû

$2 \times 3 = 6$



$3 \times 3 = 9$



$2 \times 3 = 6$



$\_\_ \times \_\_ = \_\_$



$\_\_ \times \_\_ = \_\_$



$\_\_ \times \_\_ = \_\_$



$\_\_ \times \_\_ = \_\_$



$\_\_ \times \_\_ = \_\_$



$\_\_ \times \_\_ = \_\_$



## Ugithia maita

a)

$3 \times 4 = \quad 3 \times 3 = \quad 10 \times 3 =$

$4 \times 5 = \quad 6 \times 4 = \quad 8 \times 10 =$

$6 \times 10 = \quad 7 \times 10 = \quad 10 \times 2 =$

b)

$4 \times 2 = \quad 4 \times 5 = \quad 10 \times 4 =$

$6 \times 3 = \quad 3 \times 5 = \quad 7 \times 3 =$

$4 \times 4 = \quad 5 \times 10 = \quad 2 \times 5 =$

c)

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 10 \\ \hline \end{array}$$

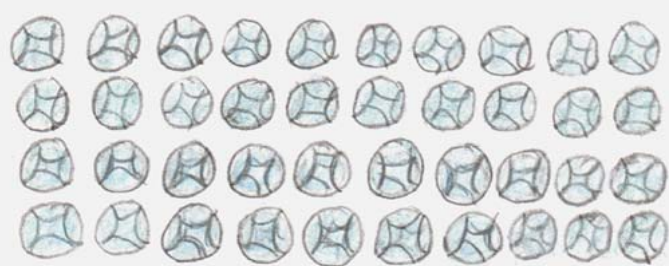
d)

$$\begin{array}{r} 4 \\ \times 10 \\ \hline \end{array}$$

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

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

## Kuugithia naamba îmwê îmwê maita îkûmi

 = 10     $1 \times 10 =$   
 = 30     $3 \times 10 =$   
 = 40  
 $4 \times 10 =$

**B**

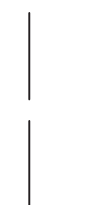
$5 \times 10 =$      $3 \times 10 =$      $7 \times 10 =$      $1 \times 10 =$   
 $4 \times 10 =$      $6 \times 10 =$      $8 \times 10 =$      $9 \times 10 =$

**C**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 2           | 5           | 7           | 3           |
| $\times 10$ | $\times 10$ | $\times 10$ | $\times 10$ |
| _____       | _____       | _____       | _____       |
| 9           | 4           | 6           | 1           |
| $\times 10$ | $\times 10$ | $\times 10$ | $\times 10$ |
| _____       | _____       | _____       | _____       |

$2 \times 3 = 6$

$3 \times 2 = 6$



$2 \times 2 = 4$

$2 \times 3 =$



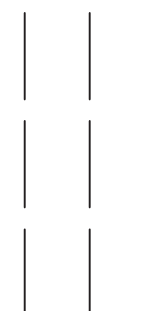
$3 \times \_ = 6$



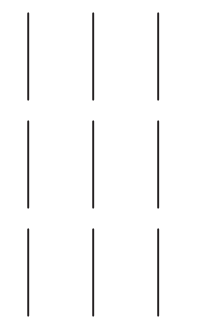
$1 \times 3 =$



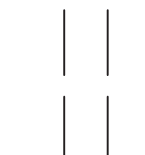
$5 \times \_ = 10$



$3 \times 3 =$



$\_ \times 3 = 12$



$\_ \times 3 = 9$

$$1. \quad 2 = 2 \qquad 2 \times 1 =$$

$$2. \quad 2 + 2 = \qquad 2 \times 2 =$$

$$3. \quad 2 + 2 + 2 = \qquad 2 \times 3 =$$

$$4. \quad 2 + 2 + 2 + 2 = \qquad 2 \times 4 =$$

$$5. \quad 2 + 2 + 2 + 2 + 2 = \qquad 2 \times 5 =$$

$$1. \quad 3 = 3 \qquad 3 \times 1 =$$

$$2. \quad 3 + 3 = \qquad 3 \times 2 =$$

$$3. \quad 3 + 3 + 3 = \qquad 3 \times 3 =$$

$$4. \quad 3 + 3 + 3 + 3 = \qquad 3 \times 4 =$$

$$5. \quad 3 + 3 + 3 + 3 + 3 = \qquad 3 \times 5 =$$

## Tûmîra mûraba kûûyûrîria naamba ira ikûûra

**A**

$$3 \times 1 = \_ \qquad 2 \times 3 = \_ \qquad 4 \times 3 = \_$$

$$1 \times 3 = \_ \qquad 3 \times 2 = \_ \qquad \_ \times 4 = 12$$

$$5 \times 2 = \_ \qquad 5 \times \_ = 10 \qquad 5 \times \_ = 20$$

$$2 \times 5 = \_ \qquad \_ \times 2 = 10 \qquad 4 \times 5 \_ = 20$$

$$5 \times 5 = \_ \qquad 3 \times \_ = 12 \qquad 4 \times \_ = 20$$

$$2 \times \_ = 14 \qquad \_ \times 5 = 25$$

## Ûyûrîria mûraba ûyû:

| X | 1 | 2 | 3  | 4  | 5  |
|---|---|---|----|----|----|
| 1 | 1 |   |    |    |    |
| 2 |   | 4 |    |    |    |
| 3 |   |   |    | 12 |    |
| 4 |   |   |    |    | 20 |
| 5 |   |   | 15 |    |    |

$$2 \times 4 = 8$$

$$4 \times 2 = 8$$

## Gûtaranîria inya inya

4x1 =

4x2 =

4x3 =

4x4 =

4x5 =



1.  $4 = 4 \times 1 = 4$

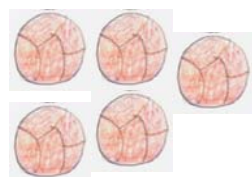
2.  $4 + 4 = 4 \times 2 = 8$

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

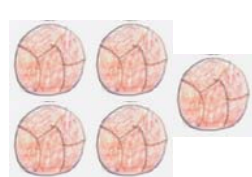
4.  $4 + 4 + 4 + 4 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = 16$

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

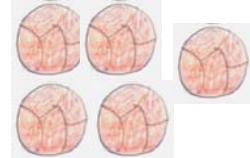
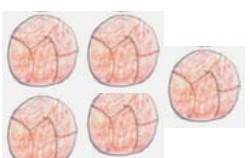
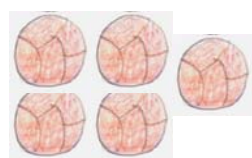
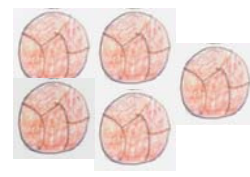
Gûtaranîria itaana maita mataano



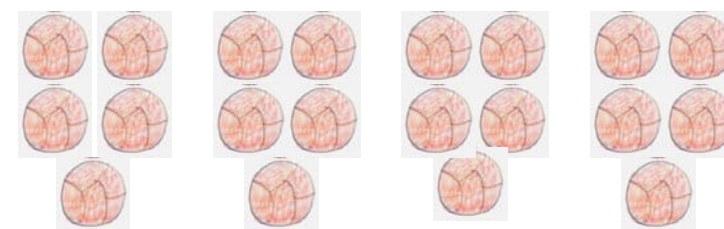
$5 \times 1 =$



$5 \times 2 =$



$5 \times 3 =$



$5 \times 4 =$



$5 \times 5 =$

1.  $5 = 5 \times 1 = 5$

2.  $5 + 5 = 5 \times 2 =$

3.  $5 + 5 + 5 = 5 \times \underline{\hspace{1cm}} = 15$

4.  $5 + 5 + 5 + 5 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = 20$

5.  $5 + 5 + 5 + 5 + 5 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$