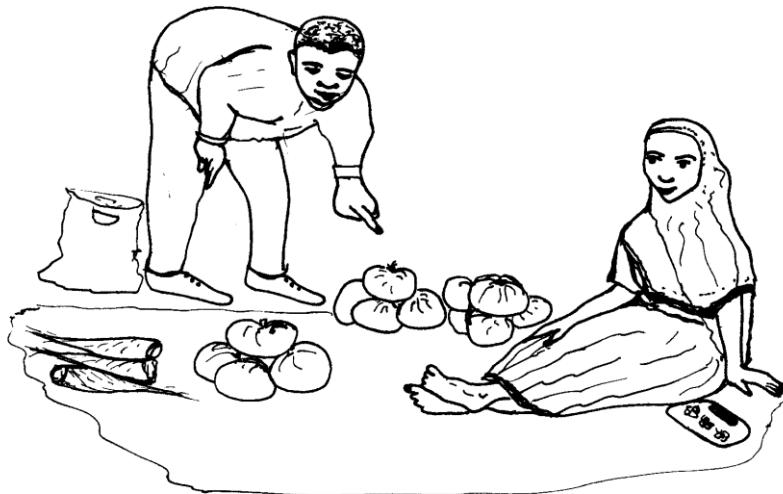


# Kitab nintika nî - 2



*Livre de Calcul - 2*



# **Kitab nintika nî - 2**

*Livre de Calcul - 2*

SIL Tchad  
Hadjer Hadid  
2022

*Langue: massalit, parlée dans la préfecture d'Assoungha à l'est du Tchad, et au Soudan, surtout dans l'Etat fédéral du Darfour occidental.*

*Titre en français : Livre de Calcul - 2*

*Genre : matériel didactique – calcul*

*Adapté et utilisé avec la permission de FAPLN et DAPLAN, Tchad*

*Quelques exercices du livre « Calcul pour les femmes : Livre 2 » par Elisabeth Gerger (SIL, 2019) adapté et utilisé avec permission (p. 9, 26, 29)*

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*Deuxième édition*

*Nombre d'exemplaires : 250*

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*Site de ressources en langue massalit -*

<https://masarak.org/>

## Kanaa ndâŋa

Kitab gi nintika nî 1 mbo 2 mbo ye. Kaa kâddunjar kanaa masaraka nûre gâr enteye. Kitab gu gîlanj hâkkuma Cad tag ndîŋjar, kaŋgi yakunuŋ kana ta fandanj nogoloŋij nulte tulte mbo tîndiŋjara. Kaa guca kâddi kanaa Gera taŋa mbo nâyirii wî kul kanaa tuu rok ena. Mi du inta molo kul kanaa masarak mbo morgoloŋijaye.

Kitab 1 ti kûde dora mbo ndisia mbo tonosinje. Kitab 2 gi du kûde rûmukura mbo neŋa mbo tonosinje. Hâgudu lêlenj subu taŋ mâri na wî mbo ayeje sene taŋa mbo nintika njindi taŋa mbo koy tenegiye. Hâgudu nintika njijanta nî mbo gâyiriya njijanta nî mbo acalta mbo tonosinje.

## Préface

*Ces livres de Calcul-1 et Calcul-2 sont destinés aux locuteurs de la langue massalit. Les livres destinés aux classes de post-alpha des associations membres de la FAPLN (Fédération des Associations de Promotion des langues Nationales), sur le modèle des livres de calcul du Département pour l’Alphabétisation et la Promotion des Langues Nationales (DAPLAN) du Tchad ont été traduit en massalit.*

*Le livre Calcul-2 présente la multiplication et la division ainsi que des notions rudimentaires permettant à l’apprenant de connaître les sept jours de la semaine, les douze mois de l’année et la lecture de l’heure. Il introduit aussi la lecture et le calcul des pièces et des billets de banque ainsi que quelques notions de gestion élémentaire (gestion du micro-commerce, des micro-projets, etc.) avec des tableaux pertinents.*

## Giraye 18 Rûmukura : « × » (ta)

Usumi gi « × » ta uriye, ti rûmukura ambenjereye.

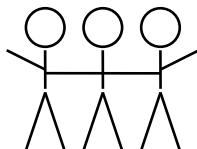
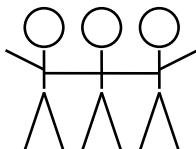
Rûmukura gi noj de mundunji :  $8 \times 2 = 16$

hâgudu gi noj dole lo dîsir koy mundunjiye:

$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$$

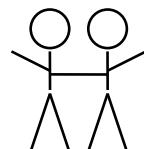
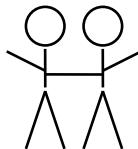
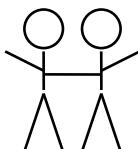
« × » ti kôma yakunuŋ hâbii tene wî ñganna yoj  
ambindiriye.

In kên kômaŋ wî 2 ye, kôma yakunuŋ hâbii tene wî 3 ye.



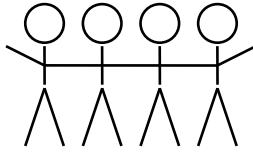
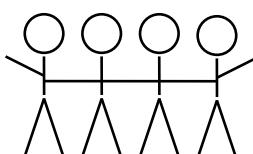
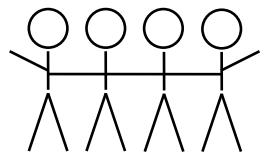
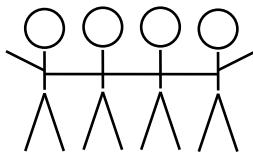
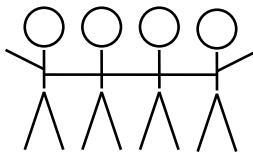
$$3 + 3 = 6$$

$$3 \times 2 = 6$$



$$2 + 2 + 2 = 6$$

$$2 \times 3 = 6$$



$$\begin{array}{r}
 4 + 4 + 4 + 4 + 4 = 20 \\
 4 \times 5 = 20
 \end{array}$$

### Acalta rûmukura nîn kûjom kul :

| 1                  | 2                  | 3                  | 4                  | 5                  |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| $1 \times 1 = 1$   | $2 \times 1 = 2$   | $3 \times 1 = 3$   | $4 \times 1 = 4$   | $5 \times 1 = 5$   |
| $1 \times 2 = 2$   | $2 \times 2 = 4$   | $3 \times 2 = 6$   | $4 \times 2 = 8$   | $5 \times 2 = 10$  |
| $1 \times 3 = 3$   | $2 \times 3 = 6$   | $3 \times 3 = 9$   | $4 \times 3 = 12$  | $5 \times 3 = 15$  |
| $1 \times 4 = 4$   | $2 \times 4 = 8$   | $3 \times 4 = 12$  | $4 \times 4 = 16$  | $5 \times 4 = 20$  |
| $1 \times 5 = 5$   | $2 \times 5 = 10$  | $3 \times 5 = 15$  | $4 \times 5 = 20$  | $5 \times 5 = 25$  |
| $1 \times 6 = 6$   | $2 \times 6 = 12$  | $3 \times 6 = 18$  | $4 \times 6 = 24$  | $5 \times 6 = 30$  |
| $1 \times 7 = 7$   | $2 \times 7 = 14$  | $3 \times 7 = 21$  | $4 \times 7 = 28$  | $5 \times 7 = 35$  |
| $1 \times 8 = 8$   | $2 \times 8 = 16$  | $3 \times 8 = 24$  | $4 \times 8 = 32$  | $5 \times 8 = 40$  |
| $1 \times 9 = 9$   | $2 \times 9 = 18$  | $3 \times 9 = 27$  | $4 \times 9 = 36$  | $5 \times 9 = 45$  |
| $1 \times 10 = 10$ | $2 \times 10 = 20$ | $3 \times 10 = 30$ | $4 \times 10 = 40$ | $5 \times 10 = 50$ |
| $1 \times 11 = 11$ | $2 \times 11 = 22$ | $3 \times 11 = 33$ | $4 \times 11 = 44$ | $5 \times 11 = 55$ |
| $1 \times 12 = 12$ | $2 \times 12 = 24$ | $3 \times 12 = 36$ | $4 \times 12 = 48$ | $5 \times 12 = 60$ |

### Gulasira 1: Lijira mînim hâbutuu mige wî mintini :

1. Halime sûg mo ko ɳamii jarkanaŋ 4 torona. Jarkana yakunuŋ litirta 5 tene. Halime ti ɳamu litirta ɳganna tula ?

$$4 \times 5 = \dots$$

Hâgudu Halime ti tîyarce 6 tene, tîyar yakunuŋ ɳamu litirta 2 innde, tîyarce taŋa ɳamii litirta ɳganna innde ?

2. Rakiya dukkan mo ko asee koraŋ 3 tula, kora yakunuŋ kelesketa 9 tene. Ti kooy kelesketa ɳganna tulayoŋ ?

Hâgudu jire taŋ 4 lo kaŋgi yakunuŋ kelesketa 3 ula, toron ɳganna ula?

### Gulasira 2: Acalta rûmukura nîŋ nandam :

|                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| $2 \times 0 = \dots$  | $3 \times 0 = \dots$  | $4 \times 0 = \dots$  | $5 \times 0 = \dots$  |
| $2 \times 1 = \dots$  | $3 \times 1 = \dots$  | $4 \times 1 = \dots$  | $5 \times 1 = \dots$  |
| $2 \times 2 = \dots$  | $3 \times 2 = \dots$  | $4 \times 2 = \dots$  | $5 \times 2 = \dots$  |
| $2 \times 3 = \dots$  | $3 \times 3 = \dots$  | $4 \times 3 = \dots$  | $5 \times 3 = \dots$  |
| $2 \times 4 = \dots$  | $3 \times 4 = \dots$  | $4 \times 4 = \dots$  | $5 \times 4 = \dots$  |
| $2 \times 5 = \dots$  | $3 \times 5 = \dots$  | $4 \times 5 = \dots$  | $5 \times 5 = \dots$  |
| $2 \times 6 = \dots$  | $3 \times 6 = \dots$  | $4 \times 6 = \dots$  | $5 \times 6 = \dots$  |
| $2 \times 7 = \dots$  | $3 \times 7 = \dots$  | $4 \times 7 = \dots$  | $5 \times 7 = \dots$  |
| $2 \times 8 = \dots$  | $3 \times 8 = \dots$  | $4 \times 8 = \dots$  | $5 \times 8 = \dots$  |
| $2 \times 9 = \dots$  | $3 \times 9 = \dots$  | $4 \times 9 = \dots$  | $5 \times 9 = \dots$  |
| $2 \times 10 = \dots$ | $3 \times 10 = \dots$ | $4 \times 10 = \dots$ | $5 \times 10 = \dots$ |

## Giraye 19 Rûmukura

### Acalta rûmukura nîn kûjom kul :

| 6                  | 7                  | 8                  | 9                   |
|--------------------|--------------------|--------------------|---------------------|
| $6 \times 1 = 6$   | $7 \times 1 = 7$   | $8 \times 1 = 8$   | $9 \times 1 = 9$    |
| $6 \times 2 = 12$  | $7 \times 2 = 14$  | $8 \times 2 = 16$  | $9 \times 2 = 18$   |
| $6 \times 3 = 18$  | $7 \times 3 = 21$  | $8 \times 3 = 24$  | $9 \times 3 = 27$   |
| $6 \times 4 = 24$  | $7 \times 4 = 28$  | $8 \times 4 = 32$  | $9 \times 4 = 36$   |
| $6 \times 5 = 30$  | $7 \times 5 = 35$  | $8 \times 5 = 40$  | $9 \times 5 = 45$   |
| $6 \times 6 = 36$  | $7 \times 6 = 42$  | $8 \times 6 = 48$  | $9 \times 6 = 54$   |
| $6 \times 7 = 42$  | $7 \times 7 = 49$  | $8 \times 7 = 56$  | $9 \times 7 = 63$   |
| $6 \times 8 = 48$  | $7 \times 8 = 56$  | $8 \times 8 = 64$  | $9 \times 8 = 72$   |
| $6 \times 9 = 54$  | $7 \times 9 = 63$  | $8 \times 9 = 72$  | $9 \times 9 = 81$   |
| $6 \times 10 = 60$ | $7 \times 10 = 70$ | $8 \times 10 = 80$ | $9 \times 10 = 90$  |
| $6 \times 11 = 66$ | $7 \times 11 = 77$ | $8 \times 11 = 88$ | $9 \times 11 = 99$  |
| $6 \times 12 = 72$ | $7 \times 12 = 84$ | $8 \times 12 = 96$ | $9 \times 12 = 108$ |

### Gulasira 1: Lîjira mînim hâbutuu mige wî mintini :

Lêle jînem kaa kâddur hâbutuu wanara.

1. Kaa kambas 5 lo kaŋgi yakunuŋ kûrsiŋ 3 wanara.  
Kooy toron kûrsiŋ ŋganna wanaroŋ ?
2. Kaa kambas 7 lo kaŋgi yakunuŋ bajii 2 wanara. Kooy toron bajii ŋganna wanaroŋ ?
3. Tajirta 3 lo sukkarko chuwalta 3 wanara. Kooy toron chuwalta ŋganna wanaroŋ ?

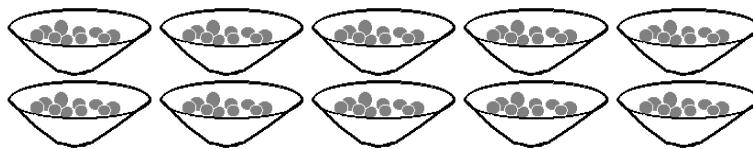
4. Bûgulañ nîj kâddunjar 8 lo kañgi yakunuñ âriñ 2 wanara. Kooy toron âriñ ñganna wanaroñ ?
5. Iyanjata 6 lo iyañja yakunuñ basalta kômañ 4 wanara. Kooy toron kômañ ñganna wanaroñ ?
6. Iyanjata 9 lo iyañja yakunuñ tûmta kômañ 2 wanara. Kooy toron kômañ ñganna wanaroñ ?
7. Kimiñ kâli 7 lo kara yakunuñ siniyeñ 3 wanara. Kooy toron siniyeñ ñganna wanaroñ ?
8. Iyanjata 4 lo iyañja yakunuñ chetta kômañ 3 wanara. Kooy toron kômañ ñganna wanaroñ ?
9. Chekta 9 lo chek yakunuñ njijanta âdumar 2 wanara. Kooy toron njijanta ñganna wanaroñ ?
10. Iyanjata nîj kâddunjar 5 lo iyañja yakunuñ kokor 3 wanara. Kooy toron kokor ñganna wanaroñ ?
11. Munjukul 22 lo munjukula yakunuñ alinjii koro wanara. Kooy toron korañ ñganna wanaroñ ?

**Gulasira 2 : Acalta rûmukura nîj nandam :**

|                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|
| $6 \times 0 = \dots$ | $7 \times 0 = \dots$ | $8 \times 0 = \dots$ | $9 \times 0 = \dots$ |
| $6 \times 1 = \dots$ | $7 \times 1 = \dots$ | $8 \times 1 = \dots$ | $9 \times 1 = \dots$ |
| $6 \times 2 = \dots$ | $7 \times 2 = \dots$ | $8 \times 2 = \dots$ | $9 \times 2 = \dots$ |
| $6 \times 3 = \dots$ | $7 \times 3 = \dots$ | $8 \times 3 = \dots$ | $9 \times 3 = \dots$ |
| $6 \times 4 = \dots$ | $7 \times 4 = \dots$ | $8 \times 4 = \dots$ | $9 \times 4 = \dots$ |
| $6 \times 5 = \dots$ | $7 \times 5 = \dots$ | $8 \times 5 = \dots$ | $9 \times 5 = \dots$ |

$$\begin{array}{llll}
 6 \times 6 = \dots & 7 \times 6 = \dots & 8 \times 6 = \dots & 9 \times 6 = \dots \\
 6 \times 7 = \dots & 7 \times 7 = \dots & 8 \times 7 = \dots & 9 \times 7 = \dots \\
 6 \times 8 = \dots & 7 \times 8 = \dots & 8 \times 8 = \dots & 9 \times 8 = \dots \\
 6 \times 9 = \dots & 7 \times 9 = \dots & 8 \times 9 = \dots & 9 \times 9 = \dots \\
 6 \times 10 = \dots & 7 \times 10 = \dots & 8 \times 10 = \dots & 9 \times 10 = \dots
 \end{array}$$

$$\begin{array}{lll}
 10 \times 0 = \dots & 10 \times 4 = \dots & 10 \times 8 = \dots \\
 10 \times 1 = \dots & 10 \times 5 = \dots & 10 \times 9 = \dots \\
 10 \times 2 = \dots & 10 \times 6 = \dots & 10 \times 10 = \dots \\
 10 \times 3 = \dots & 10 \times 7 = \dots
 \end{array}$$



$$\begin{array}{ccccccccc}
 10 & + & 10 & + & 10 & + & 10 & + & 10 \\
 + & 10 & + & 10 & + & 10 & + & 10 & = 100
 \end{array}$$

$$10 \times 10 = 100$$

**Gulasira 3 : Rûmukura wî nintina nduŋ :**

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

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

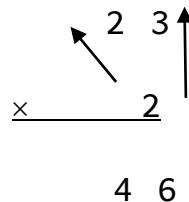
$$\begin{array}{r}
 8 \quad \quad \quad 7 \quad \quad \quad 10 \quad \quad \quad 7 \quad \quad \quad 10 \\
 \times 9 \quad \times 6 \quad \times 4 \quad \times 8 \quad \times 9
 \end{array}$$

## Giraye 20 Rûmukura kâddur na wî

Rûmukura kâddur na wîm, gîlaj gani tîle tam ninda wî nintin-kodo, hâgudu gani ûtuk tam ninda wî nintinti.

Masal :

|   | ûtukta<br>(û) | tîleta<br>(t) |
|---|---------------|---------------|
| x | 2             | 3             |
|   | 4             | 6             |



Gulasira 1 : Rûmukura wî nintina ndunj :

$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 20 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 44 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 31 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 20 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 32 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 62 \\ \times 2 \\ \hline \end{array}$$

## Gulasira 2 : Acalta rûmukura nîj landira sîkal :

| 6                  | 7                  | 8                  | 9                   |
|--------------------|--------------------|--------------------|---------------------|
| $6 \times 1 = 6$   | $7 \times 1 = 7$   | $8 \times 1 = 8$   | $9 \times 1 = 9$    |
| $6 \times 2 = 12$  | $7 \times 2 = 14$  | $8 \times 2 = 16$  | $9 \times 2 = 18$   |
| $6 \times 3 = 18$  | $7 \times 3 = 21$  | $8 \times 3 = 24$  | $9 \times 3 = 27$   |
| $6 \times 4 = 24$  | $7 \times 4 = 28$  | $8 \times 4 = 32$  | $9 \times 4 = 36$   |
| $6 \times 5 = 30$  | $7 \times 5 = 35$  | $8 \times 5 = 40$  | $9 \times 5 = 45$   |
| $6 \times 6 = 36$  | $7 \times 6 = 42$  | $8 \times 6 = 48$  | $9 \times 6 = 54$   |
| $6 \times 7 = 42$  | $7 \times 7 = 49$  | $8 \times 7 = 56$  | $9 \times 7 = 63$   |
| $6 \times 8 = 48$  | $7 \times 8 = 56$  | $8 \times 8 = 64$  | $9 \times 8 = 72$   |
| $6 \times 9 = 54$  | $7 \times 9 = 63$  | $8 \times 9 = 72$  | $9 \times 9 = 81$   |
| $6 \times 10 = 60$ | $7 \times 10 = 70$ | $8 \times 10 = 80$ | $9 \times 10 = 90$  |
| $6 \times 11 = 66$ | $7 \times 11 = 77$ | $8 \times 11 = 88$ | $9 \times 11 = 99$  |
| $6 \times 12 = 72$ | $7 \times 12 = 84$ | $8 \times 12 = 96$ | $9 \times 12 = 108$ |

| 10                   | 11                   | 12                   |
|----------------------|----------------------|----------------------|
| $10 \times 1 = 10$   | $11 \times 1 = 11$   | $12 \times 1 = 12$   |
| $10 \times 2 = 20$   | $11 \times 2 = 22$   | $12 \times 2 = 24$   |
| $10 \times 3 = 30$   | $11 \times 3 = 33$   | $12 \times 3 = 36$   |
| $10 \times 4 = 40$   | $11 \times 4 = 44$   | $12 \times 4 = 48$   |
| $10 \times 5 = 50$   | $11 \times 5 = 55$   | $12 \times 5 = 60$   |
| $10 \times 6 = 60$   | $11 \times 6 = 66$   | $12 \times 6 = 72$   |
| $10 \times 7 = 70$   | $11 \times 7 = 77$   | $12 \times 7 = 84$   |
| $10 \times 8 = 80$   | $11 \times 8 = 88$   | $12 \times 8 = 96$   |
| $10 \times 9 = 90$   | $11 \times 9 = 99$   | $12 \times 9 = 108$  |
| $10 \times 10 = 100$ | $11 \times 10 = 110$ | $12 \times 10 = 120$ |
| $10 \times 11 = 110$ | $11 \times 11 = 121$ | $12 \times 11 = 132$ |
| $10 \times 12 = 120$ | $11 \times 12 = 132$ | $12 \times 12 = 144$ |

## Giraye 21 Neŋa: « ÷ »

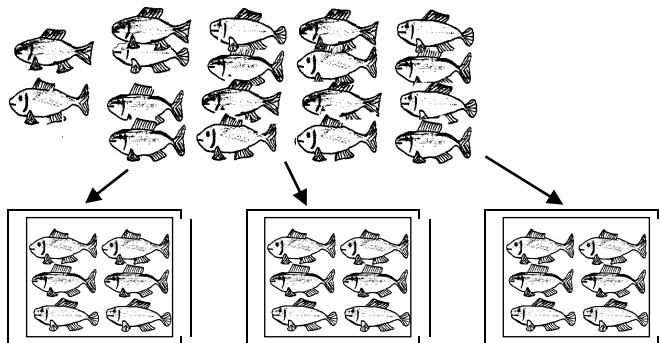
Usumi gi « ÷ » ti neŋa uriye, ti hâbutuu neneŋe ye.

Tiro gi noŋ mundunjije:  $6 \div 2 = 3$

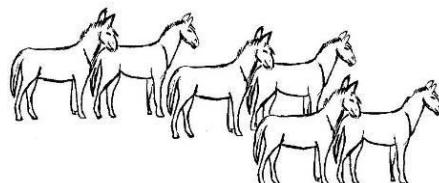
Masal:

1. Kaa 3 lo madaldim ko kûŋoo 18 înibina. Kûŋoo 18 na wî ganii 3 eŋeŋa. Kæŋgi yakunuŋ kûŋoo 6 ula.

$$18 \div 3 = 6$$



2. Beri wî ganii 2 meneŋenjeran, som yakunuŋ beri ŋganna teneyon ?



$$6 \div 2 = 3$$

Acal rûmukura gi ti kere molo kondorkonjim gâr genan,  
rûmukura tûkasi.

Yagu kodorkonji molo kerem gâr genan, neña  
ambindiriye.

Masal :       $3 \times 2 = 6$   
                   $6 \div 2 = 3$

In ken acal rûmukura nî gu ndâyñara neña wî wo  
nintini:

### Gulasira 1

$28 \div 7 = \dots$

$81 \div 9 = \dots$

$56 \div 7 = \dots$

$36 \div 6 = \dots$

$64 \div 8 = \dots$

$42 \div 6 = \dots$

$100 \div 10 = \dots$

$72 \div 6 = \dots$

$55 \div 5 = \dots$

$32 \div 4 = \dots$

$40 \div 5 = \dots$

$24 \div 3 = \dots$

$80 \div 10 = \dots$

$72 \div 8 = \dots$

$32 \div 8 = \dots$

$18 \div 9 = \dots$

$16 \div 2 = \dots$

$60 \div 6 = \dots$

$20 \div 4 = \dots$

$27 \div 3 = \dots$

$49 \div 7 = \dots$

### Gulasira 2

1. Dûnjuli tamiya 24 ludan̄ kimiñ 6 tenenjeña. Kimo yakunuñ ñganna tûña ?

2. Daňa Abakar musumarta 32 kul gadaň 4 tuccumaňa. Gada yakunuň musumarta ñganna tula ?

3. Ishak ganu basalta nû ne, teberekta 100 ken, kaa nûnduňuki somta 10 tena. Som yakunuň teberekta ñganna tula ?

4. Gûca kanaa masarak nî gi bûga tum kobolokta 3 tûtturaňa, FAM kar sôgu chuwalta 96 ñû, hâgudu ñamu kortonaň 7 tûňa, kortona yakunuň jarkanaň 3 tene. Kobolok yakunuň sôgi chuwalta ñganna kul, ñamii jarkanaň ñganna tulusi ?

### Gulasira 3

$$96 \div 3 = \dots \quad 150 \div 5 = \dots \quad 280 \div 10 = \dots$$

$$33 \div 3 = \dots \quad 90 \div 90 = \dots \quad 42 \div 6 = \dots$$

$$100 \div 10 = \dots \quad 75 \div 15 = \dots \quad 77 \div 7 = \dots$$

$$180 \div 10 = \dots \quad 81 \div 9 = \dots \quad 68 \div 2 = \dots$$

$$86 \div 2 = \dots \quad 86 \div 2 = \dots \quad 69 \div 3 = \dots$$

$$200 \div 5 = \dots \quad 250 \div 5 = \dots \quad 155 \div 5 = \dots$$

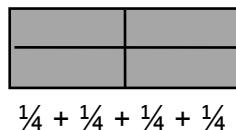
## Giraye 22

## Caki mbo caki ta caki mbo

Yakub kimi $\frac{1}{2}$  2 ne âsurtu teneñeja, kima yakunuñ caku-caku tûña. Caki gi ti gi noj katab ken mundunji :



Kaŋgi tu du kimi $\frac{1}{4}$  4 ne âsurtu teneñeja. Kima yakunuñ caki ta caku tula. Caki ta caki ti gi noj katab ken mundunji :  $\frac{1}{4}$ . Caki ta caki mira-ken ti rubu ye.



Hâgudu hâbutu yakunuñ eneñe-ken, caki noj, caki ta caki noj enegiye.

Masal : Moŋgeta 40 na wî, caki ta gi 20 ye.  
Caki ta caki du 10 ye.

### Gulasira:

1. Kaŋgi ba asee koran $\frac{1}{2}$  tene-ken, cakin $\frac{1}{2}$  ñganna tene ?
2. 48 igi, caki ta ñganna ye ? Hâgudu caki ta caki ñgannaye ?
3. 12 igi, caki ta ñganna ye ? Hâgudu caki ta caki ñganna ye ?

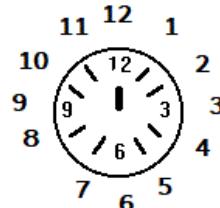
## Giraye 23

## Njindu nosinja

Lêle tîle ti saŋ 24 tene.

Nenjere sa ta gi, ti dortola ye.

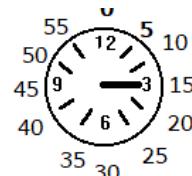
Ti lêlem joo mbîr tamalanje.



Sa tîle gi, ti dâgiganj 60 tene.

Nenjere dâgiga ta gi, ti cukangi ye.

Ti sam telle tamalanje.



In ken njindiŋ wî :



1:00



2:00



3:00



4:00



5:00



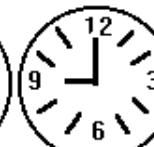
6:00



7:00



8:00



9:00



10:00



11:00



12:00

Njindiñ wîwo nandadala sîkal :



3:30

Njindi gi sa 3  
dole caku  
ambenjereye



8:15

Njindi gi sa 8  
dole rubu  
ambenjereye



10:45

Njindi gi sa  
11 tûtiñ mo  
rubu kûyyo  
ambenjereye



4:10

Njindi gi sa 4  
dole dâgigan  
10  
ambenjereye



4:55

Njindi gi sa 5  
tûtiñ mo  
5 kûyye  
ambenjereye



6:40

Njindi gi sa 6  
dole 40  
dâgigan  
ambenjereye

### Gulasira 1:

1. Njindiñ wî sañ ñganna ambenjereye ?



2. Dâgigan 120 na wî, sañ ñganna eneyoñ ?

3. Dâgigan 180 na wî, sañ ñganna eneyoñ ?

4. Dâgigaŋ 90 na wî, saŋ ŋganna eneyoŋ ?
5. Dâgiga tîle ti sâŋiyen 60 tene. In ken, dâgigaŋ mbara caki na wî sâŋiyen ŋganna eneyoŋ ?

## **Gulasira 2**

1. Fatime ta baba âsurum joom tayi-ken, sa mbo tîke, hâgudu ajala mbo tayi-ken, dâgigaŋ 15 mbo tîke. Joom tîke gi mbo ajala mbo tîke gi mbo wâri ïnim dâgigaŋ ŋganna teneyoŋ ?
2. Îsa ta baba âsurti ta gu dâgigaŋ 100 mbo toye. Âsurti to caku toyonji-ken, dâgigaŋ ŋganna mbo toye ? Hâgudu âsurti to caki to caku toyonji-ken, dâgigaŋ ŋganna mbo toye ?
3. Tîrimbil Abeche lo sa 3:00 kurnaŋ maldali Murra sa 3:45 tara. Ili molo kurnaŋ Am Leyuna sa 4:10 tara. Hâgudu ilim dâgigaŋ 20 tununara. Ili molo kurnaŋ Chetete tare gu, dâgigaŋ 50 tula. Hâgudu Chetete lo Kuma Rebem sa mbo tara. In ken Abeche lo Kuma Rebem saŋ ŋganna mbo tara ? Hâgudu sa ŋganna tara ? Wâri yakunuŋ gani tam ndunjin, njindiŋ tula wî rakti.

Abeche – 3 : 00

Murra – .....

Am Leyuna – .....

Gurnanja – .....

Chetete – .....

Kuma Rebem – .....

## Giraye 24

## **Seno gosinja**

Giraye naraña gim wî mosiňa:

Lêle tîlem **sarı 24** tene.

Sa tîle **dâgigań 60** tene.

Dâgiga tîle **sâniyeń 60** tene.

In ken,

1. Sa tîle sâniyeń ḥganna tene ?

2. Hâgudu sań 72 na wî lêlen ḥganna tene ?

3. Hâgudu sań 48 na wî lêlen ḥganna tene ?

Giraye gim subuń mbo ayeje mbo mintinteye.

**1) Subu tîle ti lêlen 7 tene.**

Lêlen wî i atinen – talata – arba – kamis – jime – sabit – ahat noj ye.

In ken,

1. Subuń 3 na lêlen ḥganna ene ?

2. Lêlen 56 na subuń ḥganna ene ?

3. Lêlen 35 na subuń ḥganna ene ?

**2) Sene ti lêlen 365 tene.**

Hâgudu sene subuń **52** noj tene.

Hâgudu sene **ayeje 12** tene.

**Ayeje 12 na wî i :**

Aye 1 gi lêlen 31 tene.

Aye 2 gi lêlen 28 tene, yagu sininta 4 tuđuno koy, sene aslaňa gim lêlen 29 tene.

Aye 3 gi lêlen 31 tene.

Aye 4 gi lêlen 30 tene.  
Aye 5 gi lêlen 31 tene.  
Aye 6 gi lêlen 30 tene.  
Aye 7 gi lêlen 31 tene.  
Aye 8 gi lêlen 31 tene.  
Aye 9 gi lêlen 30 tene.  
Aye 10 gi lêlen 31 tene.  
Aye 11 gi lêlen 30 tene.  
Aye 12 gi lêlen 31 tene.

### **Gulasira**

1. Yaya fîlta taŋa atinen molo sabitmo tudaŋa. Léle yakunuŋ saŋ 6 kadam tena. In ken kooy toron saŋ ŋganna mbo tudaŋa ?
2. Bûrti Mongo lo Bitkin naka gu lêlen 280 mbo orgola. In ken subuŋ ŋganna mbo orgola ? Hâgudu seno ultij mo lêlen ŋganna kûyyoŋ ? Hâgudu aye 1 subuŋ 4 tene-ken, ayeje ŋganna mbo orgola ?
3. Maranja âgu ûsusangi tam ko rûse dâgigaŋ 45 tindena. Ûsusangi tîŋara, rayin tîbini gu dâgigaŋ 45 mbo tîbina. In ken kooy toron saŋ ŋganna ûka ?
4. Haluwa waram ko joo mbîr ŋun kawalko rucaŋ kul tanara. Hâgudu lêle mbo ŋûrun âgum tuluna. Lêlen 7 tuŋuna ndor tândajija, lêlen 2 mbo tuburuŋa. Hâgudu sûgmo lêlen 2 mbo torona. In ken kooy toron subuŋ ŋganna ûka ? Hâgudu lêle yakunuŋ saŋ 8 kadam tenan, kooy toron saŋ ŋganna mbo kadam tena ?

## Giraye 25 Rûmukura lama mbo

Rûmukura kâddur na wîm gîlan gani tîle tam (t) ninda wî nintin-kodo, hâgudu gani ûtuk tam (û) ninda wî nitin, hâgudu gani selterji tam (s) inda-ken mintini.

- Ba nintina nintika mbara ûkan, sona gu dîsir nduŋa, kâddi gu dole nduŋ.
  - Hâgudu mbarlaŋa gu nitina-kodo, dole na gi mbo rok gena, dîsir nduŋ.

## Masal :

| s    | û         | t      |
|------|-----------|--------|
| (+1) | (+3)<br>2 | 5<br>6 |
| x    |           |        |
| 1    | 5         | 0      |

A diagram illustrating the addition of 25 and 6. A horizontal number line has tick marks labeled 1, 5, 0 at the far left, 2, 5 in the middle, and 6 at the far right. Above the number line, the label (+3) is written above the tick mark for 2. To the right of the number line, there are two sets of tally marks: one set pointing up and one set pointing right, both ending at the tick mark for 6.

Gulasira :

$$\begin{array}{r}
 (+1) & (+1) \\
 37 & 56 & 89 & 48 & 54 & 65 \\
 \times 2 & \times 3 & \times 4 & \times 7 & \times 5 & \times 3 \\
 \hline
 74 & 168 & 356 & 336 & 270 & 195
 \end{array}$$

$$\begin{array}{r}
 87 & 98 & 52 & 64 & 37 & 41 \\
 \times 6 & \times 7 & \times 3 & \times 5 & \times 4 & \times 8 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 230 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 127 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 302 \\
 \times 3 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 234 \\
 \times 2 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 159 \\
 \times 5 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 273 \\
 \times 3 \\
 \hline
 \end{array}$$

## Rûmukura ûtuk mbo selterji mbo âdumo mbo

1. Rûmukura ûtuk mbo murmukuli-ken,  
nintika gîlañ na gu ûyom nañ, kûyyo de rok migeti:

$$26 \times 10 = 260$$

$$78 \times 10 = 780$$

2. Rûmukura **selterji** mbo murmukuli-ken,  
nintika gîlañ na gu ûyom nañ, kûyyañ 2 rok migeti:

$$26 \times 100 = 2600$$

$$78 \times 100 = 7800$$

3. Rûmukura **âdumo** mbo murmukuli-ken,  
nintika gîlañ na gu ûyom nañ, kûyyañ 3 rok migeti:

$$26 \times 1000 = 26000$$

$$78 \times 1000 = 78000$$

### Gulasira :

1.  $55 \times 10 =$

2.  $72 \times 10 =$

3.  $46 \times 100 =$

4.  $68 \times 100 =$

5.  $27 \times 1000 =$

6.  $31 \times 1000 =$

## Giraye 26 Rûmukura mbara nene wî

Rûmukura mbara nene wî gîlan gani tîle tam (t) ninda  
wî nintin-kodo, hâgudu gani ûtuk tam (û) ninda wî  
nitin,

## Masal :

| $\hat{a}$    | s            | $\hat{u}$    | t      |
|--------------|--------------|--------------|--------|
|              | (+3)<br>(+7) | (+2)<br>(+4) |        |
| x            | 8<br>4       | 5<br>9       |        |
| ( +1)<br>+ 3 | 7<br>4       | 6<br>0       | 5<br>0 |
|              |              |              |        |
|              | 4            | 1            | 6      |
|              |              |              | 5      |

(2) (1)

|                                  |             |             |             |             |
|----------------------------------|-------------|-------------|-------------|-------------|
| <del>(2)</del><br><del>(4)</del> | (2)         | (1)         |             |             |
| 85                               | 56          | 42          | 37          | 89          |
| $\times$ 49                      | $\times$ 14 | $\times$ 18 | $\times$ 23 | $\times$ 20 |
| (1)765                           | 224         | 336         |             |             |
| + 3400                           | + 560       | + ....0     | +           | +           |
| 4165                             | 784         |             |             |             |

$$\begin{array}{r} 43 \\ \times 25 \\ \hline \end{array} \quad \begin{array}{r} 92 \\ \times 54 \\ \hline \end{array} \quad \begin{array}{r} 87 \\ \times 26 \\ \hline \end{array} \quad \begin{array}{r} 64 \\ \times 38 \\ \hline \end{array} \quad \begin{array}{r} 71 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 156 \\ \times 27 \\ \hline \end{array} \quad \begin{array}{r} 225 \\ \times 15 \\ \hline \end{array} \quad \begin{array}{r} 3451 \\ \times 66 \\ \hline \end{array} \quad \begin{array}{r} 509 \\ \times 35 \\ \hline \end{array} \quad \begin{array}{r} 2870 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 318 \\ \times 16 \\ \hline \end{array} \quad \begin{array}{r} 192 \\ \times 23 \\ \hline \end{array} \quad \begin{array}{r} 1225 \\ \times 52 \\ \hline \end{array} \quad \begin{array}{r} 170 \\ \times 41 \\ \hline \end{array} \quad \begin{array}{r} 2004 \\ \times 38 \\ \hline \end{array}$$

## Giraye 27

## Nenâ kâddur na wî

Nenâ kâddur na wî gani kâddur molo sonam menene.

### Masal :

Asee chuwalta 528 nar, hilleje 4 mo menenento minnde. Hille yakunuñ chuwalta ñganna tultiyoñ ?

Dole lo disir mintini :

$$\begin{array}{r}
 \begin{array}{r}
 \overrightarrow{5\ 2\ 8} \\
 -\downarrow 4 \\
 \hline
 1\ 2 \\
 -\downarrow 1\ 2 \\
 \hline
 0\ 8 \\
 -\hline
 0
 \end{array}
 \left| \begin{array}{r} 4 \\ \hline 1\ 3\ 2 \end{array} \right. \\
 4 | \begin{array}{r}
 1\ 3\ 2 \\
 -4 \\
 \hline
 1\ 2 \\
 -1\ 2 \\
 \hline
 8 \\
 -8 \\
 \hline
 0
 \end{array}
 \end{array}$$

In ken :

$$528 \div 4 = 132$$

### Gulasira 1:

$$96 \left| \begin{array}{r} 3 \\ \hline \end{array} \right.$$

$$145 \left| \begin{array}{r} 5 \\ \hline \end{array} \right.$$

$$680 \left| \begin{array}{r} 8 \\ \hline \end{array} \right.$$

$$375 \left| \begin{array}{r} 5 \\ \hline \end{array} \right.$$

$$3 \overline{)96}$$

$$5 \overline{)145}$$

$$8 \overline{)680}$$

$$5 \overline{)375}$$

## Gulasira 2: Neŋa renja mbo

$$\begin{array}{r} 79 \\ - 6 \\ \hline 19 \\ - 18 \\ \hline 1 \end{array} \quad \begin{array}{r} 3 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 137 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 523 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 476 \\ \hline 9 \end{array}$$

Gim 1 têreŋa

$$4 | \overline{137}$$

$$5 | \overline{523}$$

$$9 | \overline{476}$$

## Gulasira 3:

$$\begin{array}{r} 65 \\ 5 | \overline{325} \\ \underline{30} \\ 25 \\ \underline{25} \end{array}$$

$$7 | \overline{429}$$

$$12 | \overline{90}$$

$$11 | \overline{145}$$

$$6 | \overline{436}$$

$$3 | \overline{513}$$

$$20 | \overline{550}$$

$$4 | \overline{286}$$

## Giraye 28 Landir jera bûri nintika 4 na nîŋ

Nintin :

$$\begin{array}{r} 256 \\ + 607 \\ \hline \end{array} \quad \begin{array}{r} 1168 \\ + 96 \\ \hline \end{array} \quad \begin{array}{r} 1026 \\ + 9117 \\ \hline \end{array} \quad \begin{array}{r} 6356 \\ + 4299 \\ \hline \end{array}$$

$$\begin{array}{r} 139 \\ - 117 \\ \hline \end{array} \quad \begin{array}{r} 386 \\ - 108 \\ \hline \end{array} \quad \begin{array}{r} 5347 \\ - 2964 \\ \hline \end{array} \quad \begin{array}{r} 4572 \\ - 1286 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 98 \\ \times 12 \\ \hline \end{array} \quad \begin{array}{r} 125 \\ \times 35 \\ \hline \end{array} \quad \begin{array}{r} 856 \\ \times 79 \\ \hline \end{array}$$

$$4 | \overline{176} \quad 12 | \overline{284} \quad 12 | \overline{1428} \quad 11 | \overline{4646}$$

## Giraye 29

## Njijanta nosinja

Mi njijanta Cad taşa wî mesere-ken, faraŋka (F) mbo katab enaye, yagu mi riyal (R) mbo mûmme.

Faraŋka gu, tîŋgi FCFA mbo katab ige, yagu riyal gu R mbo katab ige.

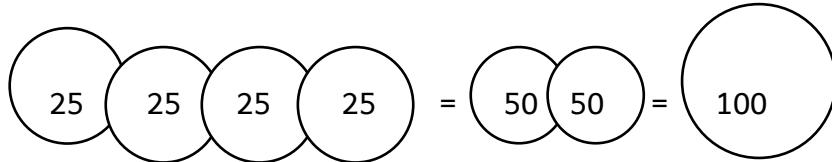
Hâgudu riyal 1 gi ti faraŋka 5 tene. **1 R = 5 FCFA**

Acal dîsir na gim nandalala sîkal :

|   |            |           |       |
|---|------------|-----------|-------|
|    | 25 F CFA   | 5 Riyal   | 5 R   |
|    | 50 F CFA   | 10 Riyal  | 10 R  |
|    | 100 F CFA  | 20 Riyal  | 20 R  |
|   | 500 F CFA  | 100 Riyal | 100 R |
|  | 1000 F CFA | 200 Riyal | 200 R |
|  | 2000 F CFA | 400 Riyal | 400 R |

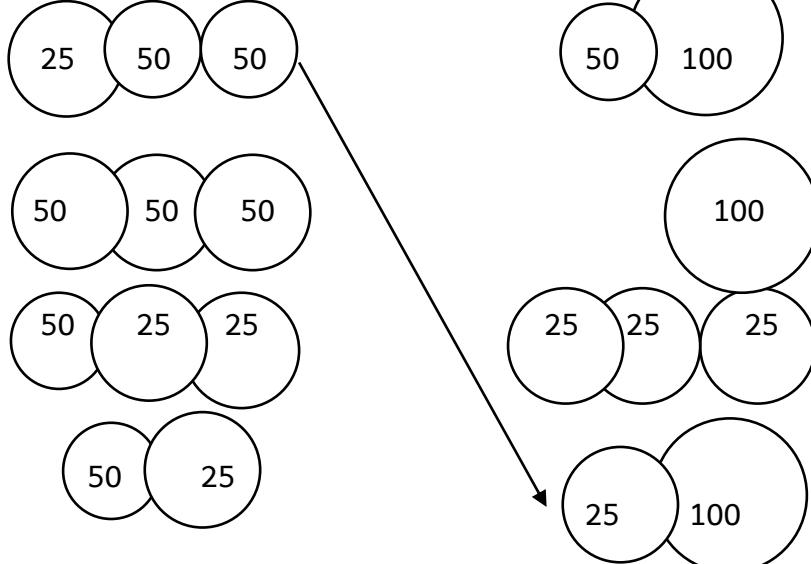
|  |             |            |        |
|--|-------------|------------|--------|
|  | 5000 F CFA  | 1000 Riyal | 1000 R |
|  | 10000 F CFA | 2000 Riyal | 2000 R |

Njiñanta jayi munduŋa wî nintinā kosiŋ:



$$25 + 25 + 25 + 25 \text{ F} = 50 + 50 \text{ F} = 100 \text{ F}$$

**Gulasira 1:** Njiñanta caki gîlangi taŋa dorona, ûka gu caki mbarlaŋa gi taŋa mbo njiñanta toron.



**Gulasira 2:** Njinjanta waragatta munduŋa wî dorona  
ŋganna ūkan kosiŋ

$$\boxed{500 \text{ F}} \quad \times 2 = \boxed{1000 \text{ F}}$$

$$\boxed{2000 \text{ F}} = \boxed{1000 \text{ F}} \times 2$$

$$\boxed{2000 \text{ F}} \times \dots = \boxed{10000 \text{ F}}$$

$$\boxed{2000 \text{ F}} = \boxed{500 \text{ F}} \times \dots$$

$$\boxed{2000 \text{ F}} = \circled{100} \times \dots$$

$$\boxed{1000 \text{ F}} = \circled{50} \times \dots$$

$$\boxed{10000} \times 3 = \boxed{1000 \text{ F}} \times \dots$$

$$\boxed{2000 \text{ F}} \times 4 = \boxed{500 \text{ F}} \times \dots$$

$$\boxed{5000 \text{ F}} \times 3 = \boxed{1000 \text{ F}} \times \dots$$

### **Gulasira 3 : Nintini**

1000 FCFA + 100 FCFA + 25 FCFA = ..1125.. FCFA

2000 FCFA + 1000 FCFA + 500 FCFA = .. 3500.. FCFA

2000 FCFA + 2000 FCFA + 500 FCFA = ..... FCFA

5000 FCFA +2000 FCFA + 100 FCFA = ..... FCFA

10000 FCFA + 5000 FCFA + 500 FCFA = ..... FCFA

5000 FCFA – 2200 FCFA = ..... FCFA

2000 FCFA – 825 FCFA = ..... FCFA

10000 FCFA – 7650 FCFA = ..... FCFA

1000 FCFA – 675 FCFA = ..... FCFA

10000 FCFA – 525 FCFA = ..... FCFA

5000 FCFA – 4200 FCFA = ..... FCFA

25000 FCFA – 8670 FCFA = ..... FCFA

20000 FCFA – 17500 FCFA = ..... FCFA

15000 FCFA – 14850 FCFA = ..... FCFA

## Giraye 30 Riyal molo Faranjkâ nûnndura

R molo FCFA mûnndulto minnde-ken, rûmukura 5 mbo rûmukul mosiñti.

Masal:

$$10 \text{ R} \times 5 = 50 \text{ F}$$

$$125 \text{ R} \times 5 = 625 \text{ F}$$

Gulasira 1: Riyal molo faranjkâ nûnndul.

|           |   |         |
|-----------|---|---------|
| 1 R       | → | 5 F     |
| 300 R     | → | ..... F |
| 500 R     | → | ..... F |
| 2500 R    | → | ..... F |
| 5000 R    | → | ..... F |
| 10,000 R  | → | ..... F |
| 100,000 R | → | ..... F |
| 200,000 R | → | ..... F |

Gulasira 2:

1. Yaya Amina tindam 5000 R tenjebena. Tenjebena gim FCFA mbo katab ena. Ùganna katab ena?

2. Âbakar Anjimena lo kîredu 2000 R Katir tindam tenjebena. Katir tâlafun tam tîkala gu, Faranjkâ mbo katab enaye. Ùganna katab ena?

3. Kadija bânkim 3500 R tunduña, waraga bânki ta gim, Faranjkô ùganna unduñoj?

4. Mahamat sûgko ken subu nalfina gim lêle yakunuŋ njinjanta wî tarkaye. Ti Riyal mbo tunduŋa:

Atinen: 700 R

Talata: 500 R

Arba: 1000 R

Kamis: 310 R

Jimme: 420 R

Sabit: 1715 R

Lêle yakunuŋ Faranjka ŋganna ye?

Hâgudu kooy toron ŋganna ye, Riyal mbo Faranjka mbo?

### **Giraye 31 Faranjka molo Riyal nûnndura**

FCFA molo Riyalko mûnndulto minnde-ken, ganii 5 meneŋenti.

Masal:

$$2000 \text{ FCFA} \div 5 = 400 \text{ R}$$

$$12500 \text{ FCFA} \div 5 = 2500 \text{ R}$$

#### **Gulasira 1:**

1. Acharta Abache lo kîredu 1000 FCFA tenjebena. Adam riyal mbo ŋganna tarka?

2. Calta kîredu joo 30 na nû 3000 FCFA toyna, dâgigan 125 tarka. Riyal mbo ŋganna ye?

3. Sâdiya njinjanta Net tanya 125 FCFA toyna, so ûna. Riyalta ŋganna ye?

## **Gulasira 2: Gulasira njiñanta nî**

1. Jâzzari malta nidibake gi jôci 3 torona, jâwi yakunuŋ 1300 R mbo torona. Jôci 3 na riyalta ñganna ye? Hâgudu faraňka mbo ñganna ye?
2. Musa kokor 4 ndîŋ ron 2000 R tarka. Kokori yakunuŋ ñganna mbo torona? Hâgudu faraňka mbo ñganna ye?
3. Mâriyam birinjalta kortonaŋ 4 torona, kortona yakunuŋ 170 R mbo torona. Hâgudu ndîŋ ron kortonam 40 R tarka. Kooy riyalta ñganna tarkoŋ? Hâgudu kortona yakunuŋ ñganna mbo ndîŋ torona?
4. Ibrahim kori asee koro 40 R mbo torona. Hâgudu ûraŋa asee imira, koro 70 R mbo koraoŋ 18 torona. Ba kori torokeyer-ken, hassa tîndiŋa wî nanna tîndiŋndiyere. Kori mbo hassa na mbo wâri îni ñganna yoŋ?
5. Zara 2000 R raku binije torona. Tôb to 1100 R mbo torona, hâgudu kima kara gi to jibbo 120 R torona, hâgudu kima ta gunullo 220 R mbo torona. Njiñanta ñganna nda êreŋa?
6. Kaŋgi nîme gu tafag nige gi lêlo 300 R mbo tûse. Dargo kîme joo 55 mbo onoda. Kooy riyalta ñganna tarka?

## Giraye 32 Acal naci mbo nînji mbo landir jera

Kitab 1 gim, acalko njijanta naci mbo nînji mbo nû mena gu landir mîkalti.

Bûgulan hille taşa âsurtu menti ru, tîran filta koranç 5,5 toron, njijanta du kañgim 400 R ken odorona. Njijanta nîbi gi acalko ken hâbutuu wâyirna wî kooy tunduña. Acal ta gu nandadala jîkala kosiñ:

| Lêle   | Mâyirna wî                     | Naci<br>(+) | Nînji<br>(-) | Nêrenji<br>(=) |
|--------|--------------------------------|-------------|--------------|----------------|
| 3/3/20 | Âli ta Adam mbo wanara         | 800         |              | 800            |
| 5/3/20 | Nasurta Musa mbo wanara        | 800         |              | 1600           |
| 9/3/20 | Amir noj Sileman noj Ahmat noj | 1200        |              | 2800           |
| 7/5/20 | Mukurat ta kâciñe              |             | 400          | 2400           |
|        | Kaño gula ta mbo               |             | 500          | 1900           |
| 5/7/20 | Jirayta 7                      |             | 1050         | 850            |
|        | TORON                          | 2800        | 1950         |                |

### Nîkariyaa:

1. Lêle 3/3 gim, ñgata lo njijanta wanara?
2. Amir lêle ñganna njijanta taş tanara?
3. Mukurat ta kâciño ñganna mbo orona?
4. Lêle 1/7 gim, sânduk ïni njijanta ñganna teneyye?

5. Hâbii innde wî kooy ron ula njîjanta ñganna nda êreňa?

6. Bûgulaŋ wî sânduk ïnim njîjanta ñganna toron, ñganna ïndijä?

### Gulasira 1:

Som mûcoo nîm njîjanta nîbu Dañgiyawo unduňa.

- Aye 3 lêle 1 gim, Mâriyam noj Matara noj Kadija noj lo 600 R nar unduňa.
- Aye 3 lêle 2 gim, Hawata Zakiya mbo 200 R wanara.
- Aye 3 lêle 3 gim, hâbutu dîra ïnim wañanti 240 R mbo orona.
- Hâgudu lêle ilim de iñantiňa 160 R mbo orona.

Acal Dañgiya ta gim njîjanta naya mbo nîňa mbo hâgudu nêreňa mbo nduň.

| Lêle | Mâyirna wî | Naci (+) | Nînji (-) | Nêrenji (=) |
|------|------------|----------|-----------|-------------|
|      |            |          |           |             |
|      |            |          |           |             |
|      |            |          |           |             |
|      |            |          |           |             |
|      |            |          |           |             |
|      |            |          |           |             |

## Giraye 33 Acal menndeñi ta

Acal gu nandadala jîkala kosiñ :

| Lêle         | Hâbi toroke wî  | Nganna   | Ron tula wî (R) | Ndîñ torona wî (R) | Tarka wî (R) | Jera         |
|--------------|-----------------|----------|-----------------|--------------------|--------------|--------------|
| 4/2/<br>2010 | Alinji          | Koran 5  | 1000            | 1500               | 500          | Fayde        |
|              | Anjo            | Koran 10 | 2000            | 1800               | -200         | Kasara       |
|              | Bîrinjal        | Koran 30 | 8000            | 11000              | 3000         | Fayde        |
|              | Maji<br>(Maggi) | Dastañ 3 | 900             | 900                | 0            | Kûyye        |
|              | Sôgi            | Koran 20 | 4000            | 5000               | 1000         | Fayde        |
| <b>TORON</b> |                 |          | <b>15900</b>    | <b>20200</b>       | <b>4300</b>  | <b>Fayde</b> |

1. Hâbii ngârii molo faydo tarka?
2. Ngârii molo kasara tarka?
3. Ngâri tenar-ken kasara tarkindiyeron?
4. Maji molo ngâri tarka? Ñgo ru inko tûka?
5. Njiñanta kooy toron nganna tîndiña, nganna tarka?  
In ken kooy toron faydo nganna tarka?

**Gulasira 1:** Kanaa wî gâr gena acal mo ndun:

Mâriyam ti arba Tîrti ko sûgko tige.

- Lêle 2 aye 12 sene 2020, Mâriyam sûg mo fîlta gûkuri chuwalta 12 torona, chuwal yakunuñ 1650 R mbo torona.

- Hâgudu alinju ûduno koraŋ 19, alinju ûdunndo du koran 38 torona. Alinji ûduna gi kora 300 R mbo ye. Ûdunnda gi du kora 200 R mbo ye.
- Hâgudu mariyaa du chuwalta 12 torona, chuwal tîle 2000 R mbo ye.

| Lêle         | Hâbi<br>toroke wî | Nganna | Ron<br>tula wî<br>(R) | Ndîŋ<br>torona<br>wî (R) | Tarka<br>wî (R) | Jera |
|--------------|-------------------|--------|-----------------------|--------------------------|-----------------|------|
|              |                   |        |                       |                          |                 |      |
|              |                   |        |                       |                          |                 |      |
|              |                   |        |                       |                          |                 |      |
|              |                   |        |                       |                          |                 |      |
| <b>TORON</b> |                   |        |                       |                          |                 |      |

Hâgudu kanaa wî gâr gena nintina acal ninda ilim ndunj:

- Mâriyam ti fîlta kooy ndîŋ 22800 R mbo torona. In ken fayde nganna tarka?
- Hâgudu alinji ûduna gu ndîŋ kasara 1140 R mbo torona. Ti nganna mbo ndîŋ torona?
- Mâriyam alinji ûdunnda gu ndîŋ torona, kora yakunuŋ 220 R mbo ndîŋ torona. Kooy toron nganna mbo torona? Fayde du nganna tarka?

- Mâriyam mariyaa ndîŋ torokeyaka fayde 2400 R tinndegeye. Ti mariyaa ɳganna mbo ndîŋ toronti?

Hâgudu acal kandama gu kîkala, nîkariyaa wî landir:

1. Mâriyam ti filta chuwal yakunuŋ ɳganna mbo ndîŋ torona?
2. Mâriyam alinji ûduna gu koro ɳganna mbo ndîŋ torona? Ti koram 10 Riyalko tarkito tinnde-ken, koro ɳganna mbo ndîŋ toronte yêyye?
3. Mâriyam mariyaa chuwal yakunuŋ ɳganna mbo ndîŋ torona?
4. Lèle ilu Mâriyam njijanta kooy ɳganna tîndija? Hâgudu ndîŋ torona gim njijanta kooy toron ɳganna tarka? Hâgudu faydo kooy toron ɳganna tarka?

### **Gulasira 2:**

Lèle 5 aye 11 sene 2020:

- Zârga arkoo chuwalta 5 torona, chuwal yakunuŋ 3000 R mbo ron kul, hâgudu ndîŋ chuwalko 3500 R mbo torona.
- Hâgudu sâbunta kortonaŋ 10 torona. Kortona yakunuŋ 2000 R mbo ron tula, hâgudu ndîŋ kortona yakunuŋ 2200 R mbo torona.
- Hâgudu rûsko koraŋ 20 torona. Kora yakunuŋ 160 R mbo ron kul, hâgudu ndîŋ koro 160 R mbo torona.

- Hâgudu basalta chuwalta 2 torona. Chuwal tîle gu 6000 R mbo torona. Hâgudu ndîŋ chuwalko 5400 R mbo torona.

Hâbutuu Zârga torona wî kooy acal mo nduŋa, ŋgâriim faydo raku, ŋgâriim kasara tarkan, nintina raku.

| Lêle  | Hâbi<br>toroke wî | ŋganna | Ron<br>tula wî<br>(R) | Ndîŋ<br>torona<br>wî (R) | Tarka<br>wî (R) | Jera |
|-------|-------------------|--------|-----------------------|--------------------------|-----------------|------|
|       |                   |        |                       |                          |                 |      |
|       |                   |        |                       |                          |                 |      |
|       |                   |        |                       |                          |                 |      |
|       |                   |        |                       |                          |                 |      |
| TORON |                   |        |                       |                          |                 |      |

## Giraye 34 Acal hâbutuu gentija toron geya nî

Hâbutuu goto ninnde-ken, gîlañ acal mo kooy nduj kosinj-kodo ndâñjinti.

Masal: Acal gi gîmeya ta ye, nandadala jîkala kosinj :

| Sûmi | Mirsi hâbutuu ninnde gi tanj | Nganna     | Tîle njinjanta nganna (R) | Toron (R) |
|------|------------------------------|------------|---------------------------|-----------|
| 1    | Tûbta furni                  | 1500       | 8                         | 12000     |
| 2    | Wardi                        | Karranç 5  | 200                       | 1000      |
| 3    | Saa                          | Bîrmilta 6 | 100                       | 600       |
| 4    | Ida                          | 3          | 500                       | 1500      |
| 5    | Kachabta                     | 2          | 1200                      | 2400      |
| 6    | Zînki                        | 5          | 1000                      | 5000      |
| 7    | Nîmeg                        | joo 3      | 1000                      | 3000      |
| 8    | Wardu nûnjig                 | joo 3      | 400                       | 1200      |
| 9    | Dûsuñgo                      | 1          | 2000                      | 2000      |
| 10   | Baraňu                       | 1          | 600                       | 600       |
| 11   | Musmartा                     | kîlo 1     | 300                       | 300       |
|      |                              |            | KOY TORON                 | 29600     |

1. Oda gi tûbta nganna tultiyon ?
2. Tûbta 500 rok ento innde-ken, njinjanta nganna rok entiyoñ?
3. Nîme gi joo ngnana mbo tîmantiyon ?
4. Oda gi baraň tanj ngannaye ?
5. Oda gim hâbutuu undujnda tinda-ken nduj !
6. Kaa hille tanj wardi mbo saa mbo wanaran, nene njinjanta tîndiñtiña nganna ûkasi ?

## Gulasira 1

Hille tum madarsam kobolokko tu rok ento innde. Gûca madarsa ta gi karu gîriŋgo menti tîrnaja. Hâgudu sâbbura mbo baji mbo tâbachirta mbo moronti tîrnaja. In ken hâbutuu gîringe tinnde mbo hâbutuu tuu wî mbo acal mo nduŋ :

| Sûmi | Mirsi hâbutuu ninnde gi taŋ | ŋganna | Tîle njijanta ŋganna (R) | Toron (R) |
|------|-----------------------------|--------|--------------------------|-----------|
| 1    | Tokotir                     |        | 200                      |           |
| 2    | Gemberi                     |        |                          |           |
| 3    |                             |        |                          |           |
| 4    |                             |        |                          |           |
| 5    |                             |        |                          |           |
| 6    |                             |        |                          |           |
| 7    |                             |        |                          |           |
|      |                             |        |                          |           |
|      |                             |        | KOY<br>TORON             |           |

1. Kobolok gi kooy toron njijanta ŋganna tinnde ?
2. Kaa gûca taŋ hâkkumam koku acal gu ïnjikala, hâkkuma du acalko sîkalu 4000 R tûŋa. In ken kaa gûca taŋ ŋganna ndîŋjar enteye ?
3. Hille gi taŋa, taŋ 50 ye. Taŋi yakunuŋ njijanta ŋganna enin, kobolok gu enteye ?

## Gulasira 2

Hille tum kaŋgi Ibrahim uri nadu tenteyaka, hâbutuu tanartiŋa wî acal gim tunduŋja. Kandadal kîkala, hâbutuu nîŋjan tunduŋndan, rok nda kenin-kodo,

njiñanta ñganna ndîñ tentiyen, acalmo kodorona kosinji.

| Sûmi | Mirsi hâbutuu ninnde gi tanj | Ñganna     | Tîle njiñanta ñganna (R) | Toron (R) |
|------|------------------------------|------------|--------------------------|-----------|
| 1    | Bâbur                        | 1          | 16000                    |           |
| 2    | Telefizunta                  | 3          | 14000                    |           |
| 3    | Sammata                      | 2          | 10000                    |           |
| 4    | Bâlitta                      | 2          | 200                      |           |
| 5    | Baji                         | 3          | 2000                     |           |
| 6    | Tarbezanj                    | 3          | 600                      |           |
| 7    | Silik karaba                 | Mitirta 30 | 150                      |           |
|      |                              |            |                          |           |
|      |                              |            |                          |           |
|      |                              |            | KOY TORON                |           |

### Gulasira 3

Ki gâyiriya kînu kene koy acal gim nduji :

| Sûmi | Mirsi hâbutuu ninnde gi tanj | Ñganna | Tîle njiñanta ñganna (R) | Toron (R) |
|------|------------------------------|--------|--------------------------|-----------|
| 1    |                              |        |                          |           |
| 2    |                              |        |                          |           |
| 3    |                              |        |                          |           |
| 4    |                              |        |                          |           |
| 5    |                              |        |                          |           |
| 6    |                              |        |                          |           |
| 7    |                              |        |                          |           |
|      |                              |        |                          |           |
|      |                              |        |                          |           |
|      |                              |        | KOY TORON                |           |

## Giraye 35      Acal wisil ta gi

Wisil ti hâbutuu dukkanmo ko gula ila mbo njîjanta ndîja ila mbo, hâgudu njîjanta nula gi taŋa mirsi mbo keŋek ta mbo undunjiye.

Wisil gu ŋâri ta jam igeziye? Tiro hâbutuu alle gula ila ŋganna mbo gula yor goste ta jam igeziye. Hâgudu kaŋgi ndâyinan koy hâbi nara gu ŋganna mbo ron nara yan toste ta jam ûnjiye.

Wisil gu nandadala jîkala kosiŋ:

MIRSI DUKKAN TAŋA: .....

Lêle: .....6/12/2020.....

No.: 0010

| Sumi | Mirsi hâbutuu<br>gula gi taŋ | Nganna    | Tîle njîjanta<br>ŋganna (R) | Toron<br>(R) |
|------|------------------------------|-----------|-----------------------------|--------------|
| 1    | Karrasta                     | Dastan 2  | 180                         | 360          |
| 2    | Galamta                      | 20        | 20                          | 400          |
| 3    | Tabachira                    | Kortona 1 | 400                         | 400          |
|      |                              |           |                             |              |
|      |                              |           | KOOY<br>TORON               | 1160         |

Keŋek dukkan ta nene gi ta... *Ibrahim Mahamat Adam...*

1. Kaŋgi gi karrasta dastan ŋganna tula? Hâgudu ŋganna mbo tula?
2. Galamta ŋganna tula? Hâgudu tîlo ŋganna mbo tula?

3. Hâbii tula wî kooy toron njinjanta ñganna tîndiñja?
4. Hâbii wî dukkan ñgatam tulaye?

### Gulasira 1

Ama Abdalmajid te, Fatime wâri tâcacirnîte helunj  
munje tara, dukkan mbem hâbutuu toronni tara.  
Jo 21 aye 10 sene 2020 dukkanmo kar sîngee ratulta  
2, ratulko 300 R mbo tula.

Hâgudu riyaje 6 tula, riya yakunuŋ 100 R mbo tula.  
Hâgudu adawatta but-but na 10 tula, tîle 20 R mbo  
tula. Hâgudu saa kumura taŋa tîlo 400 R mbo tula.  
Hâgudu gazazaŋ 3 tula, gazaza yakunuŋ 380 R mbo  
tula. Hâbutuu tula wî kooy njinjanta ñganna tîndiñjan,  
acal wisil ta gim nduj:

DUKKAN .....

WISIL

Lêle: ...../...../.....

No.: 0011

| Sûmi | Mirsi hâbutuu<br>gula gi taŋ | Ñganna | Tîle njinjanta<br>ñganna (R) | Toron<br>(R) |
|------|------------------------------|--------|------------------------------|--------------|
| 1    |                              |        |                              |              |
| 2    |                              |        |                              |              |
| 3    |                              |        |                              |              |
| 4    |                              |        |                              |              |
| 5    |                              |        |                              |              |
|      |                              |        | KOY<br>TORON                 |              |

Keŋek dukkan ta nene gi ta .....

## **Gulasira 2**

Bakit tanju tîmana yaka tonjoronto ninnde,  
jo 12 aye 4 sene 2020, dukkanmo ko jîrko kîloŋ 5 tula,  
kîlo yakunuŋ 300 R mbo tula.

Hâgudu kudusi waye wî 2, kudusu yakunuŋ 200 R mbo;  
hâgudu saa njori nîja 4 furŋgi noŋ âgunati noŋ zari  
noŋ rayŋgi noŋ, tîlo 150 R mbo tula.

Hâgudu aŋgo bitalaq 2, bito yakunuŋ 50 R mbo ron  
tula.

Maŋ dukkan ta nene le, wisilko katab nda ken:

**DUKKAN .....**

**WISIL**

Lêle: ...../...../.....

No.: 0012

| Sûmi | Mirsi hâbutuu<br>gula gi tanj | ŋganna | Tîle njîŋanta<br>ŋganna (R) | Toron<br>(R) |
|------|-------------------------------|--------|-----------------------------|--------------|
| 1    |                               |        |                             |              |
| 2    |                               |        |                             |              |
| 3    |                               |        |                             |              |
| 4    |                               |        |                             |              |
| 5    |                               |        |                             |              |
|      |                               |        | KOY<br>TORON                |              |

Keŋek dukkan ta nene gi ta .....

## **Giraye 36    Bûrti njinjanta nîbi gi tâyirite gi**

Acal njinjanta nîbi gi tarja ganii mbara ye : tu acalmo kûde njinjanta nula gi keñek tigeteye, tu du wisil mo keñek tigeteye.

Njinjanta nîbi gi ti hâbutuu 3 na wî mbo tâyiriteye :

- 1) Karras ta gim acalko njiraŋ naci mbo nînji mbo kooy tundunjiteye.
- 2) Wisil kaa nda wanara gi noŋ, ti tûŋa gi noŋ, kooy adal tigeteye.
- 3) Gûca ta kâddi yoŋ tiro nûrci yoŋ koy waraga haywa riya katab ken tûŋa wanaran, haywa riya ilu koy wisulta mbo gê adal tigeteye.

Acal mbo wisulta mbo haywa riya mbo mundurja wî nandadala jîkala kosin :

### **ACAL**

| Lêle       | Mâyirna wî               | Naci (R)     | Nînji (R)    | Nêrenji (R) | Sumi wisil ta |
|------------|--------------------------|--------------|--------------|-------------|---------------|
| 3/11/2020  | Fîlta ndîŋ morona        | 20000        |              | 20000       | 1             |
| 10/11/2020 | Kobolokko rogora         |              | 15000        | 5000        | 2             |
| 16/11/2020 | Kaa hille tarj wanara wî | 12000        |              | 17000       | 3             |
| 20/11/2020 | Tabchiranç kortona 1     |              | 400          | 16600       | 4             |
| 25/11/2020 | Majirinta sajal geya     | 4500         |              | 21100       | 5             |
| 30/11/2020 | Sâbburo morona           |              | 2000         | 19100       | 6             |
|            | <b>TORON</b>             | <b>36500</b> | <b>17400</b> |             |               |

Nîkariyaa :

1. Gûca gi ti njîjanta ñgârii molo tarka ?
2. Hâbii ñgâriim njîjanta nîyembo tîndija ?
3. 17/11/2020 ilim kûji ïnim njîjanta ñganna teneyyoj ?
4. Wisil tabachiraq nî gu ninnde-ken, sumi ñgannam rakti ?

a) Wisil kobolokko rogora nî gu, usta Mahamat Zêñ lo ludan, kaa gûca taña tûñaa. I du njîjanta nîbi gim wanajaa, njîjanta tûñaa nañ ûñaa.

**WISIL**

Lêle: ...10...../.....11.../...2020.....

Sumi: 002

| Sumi | Mirsi hâbutuu<br>gula gi tañ | Ñganna     | Tîle njîjanta<br>ñganna (R) | Toron<br>(R) |
|------|------------------------------|------------|-----------------------------|--------------|
| 1    | Tokotori                     | 12         | 200                         | 2400         |
| 2    | Idaa                         | 4          | 500                         | 2000         |
| 3    | Tûmii                        | 20         | 150                         | 3000         |
| 4    | Gemberi                      | kîji 10    | 150                         | 1500         |
| 5    | Suguri                       | mûkkuldi 1 | 1000                        | 1000         |
| 6    | Kaa nirajâ wî                | kaa 4      | 750                         | 3000         |
| 7    | Karra                        | karra 1    |                             | 1000         |
| 8    | Ñeti kaa kadam<br>nena wî    | kaa 4      |                             | 1100         |
|      |                              |            | <b>KOY TORON</b>            | <b>15000</b> |

.....  
**MAHAMAT ZÊN**

Nîkariyaa :

1. Kobolok gi gemberi kîji ñganna tula ?
2. Idaa kobolok taña ñganna mbo orona ?

b) Âfandi sâbburo annde ru, gûcam taka. Gûca ta kâddig warago haywa riya tûnä, njinjanta nîbi gim tanaya, njinjanta nîbig sîkal tûnä.

### HAYWA RIYA

Lêle: ...30/...11/...2020.....

Sumi: 006

| Sumi | Kanaa   | Nganna | Tîle<br>njinjanta<br>nganna<br>(R) | Toron<br>(R) |
|------|---------|--------|------------------------------------|--------------|
| 1    | Sâbbura | 1      | 2000                               | 2000         |
|      |         |        |                                    |              |

Mirsi kañgi nulte gi tanja:

...Hassan Juma.....

Mirsi kañgi haywa riya nûnä gi tanja:

...Ibrahim Adam.....

Gûca ta kâddi

Âfandi

Njiñanta nîbi gi ndaŋ-ndaŋ bûri wî ta mbo tâyiriteye:

1. Karras ta gim njiñanta naci mbo nînji mbo, kâddur yoŋ, baka yoŋ, kooy tundunjiteye. Hâbi tîlo koy teleteyande.
2. Wâri tunduŋi ilim, tarik ta mbo, hâgudu hâbutuu tîndija yoŋ tula yoŋ, hâgudu mirsi kaŋgi nanara gi taŋa yoŋ, nula gi taŋa yoŋ, hâgudu njiñanta koy ŋganna ïndija yoŋ wandaya yoŋ, kooy de acalmo tundunjiteye. Hâgudu njiñanta nêreŋa wî ŋganna ûtiyoŋ nintin acalmo tundunjiteye.
3. Hâgudu aye naro koy, acalko waraga ŋundim tige-ken, tiro tafag tigeteye.
4. Hâgudu ayeje mbara kaŋ uŋuno koy, kaŋgi lasiro neserto endeleŋa ili kar karras ta mbo wisilta mbo haywa riyata mbo kooy landir sîkal, hâgudu njiñanta kûjim ninda wî koy nintin gani ta yoŋ, gani ta yandoŋ nintin teserteye.
5. Hâgudu njiñanta nîbi gi karras ta mbo wisilta mbo haywa riyata mbo kooy gani tîlem de toron adal tigeteye.

Gâyiriya wisulta mbo ige gi nîyembo kallaye, yagu wisil kûyyendan koy, karras acalta nî gi molo de mirsi njîjanta nula gi taja mbo nûñä gi taja mbo katab ken keñek igeteye.

Acal dîsir na gim nandadal sîkal:

| Lêle    | Mâyirna wî              | Naci<br>(R) | Nînji<br>(R) | Nêrenji<br>(R) | Mirsi<br>kaŋgi<br>taŋ | Keñek                  |
|---------|-------------------------|-------------|--------------|----------------|-----------------------|------------------------|
| 1/9/20  | Sanduk mo<br>ninda      |             |              | 5000           |                       |                        |
| 5/9/20  | Keñkenan 2              |             | 1000         | 4000           | Adam                  | Adam<br>Musa           |
|         | Kôrek 1                 |             | 500          | 3500           | Musa                  |                        |
| 11/9/20 | Chetteta<br>teberek 1   |             | 1400         | 2100           | Kadije<br>Yusif       | <i>Kadie<br/>Yusif</i> |
| 15/9/20 | Kaa gûca<br>taja wanara | 1500        |              | 3600           | Babikir<br>Katir      | <i>Babikir<br/>KTR</i> |
|         | TORON                   | 1500        | 2900         |                |                       |                        |

### Nîkariyaa:

1. Aye 9 wândanjini gim, njîjanta kûjim ñganna eneyye?
2. Adam Musa ti njîjanta ñganna tula?
3. 11/9/20 gim Kadije ñgâru torona?
4. Kaa gûca taŋ njîjanta odorona wî ñga lo njîjanta nîbi gim tanara?
5. Hâgudu kûji ïnim njîjanta ñganna êreŋa?

### **Gulasira:**

Hilleñ mbara Tîrti mbo Ureta mbo tîran so ûllançkeyaka ûcaña. So ûllanji gim, lêle 1/1/2021 kûjim njîjanta 60,000 odorona.

Ila molo lêle 4/1/2021 âriñ 2 na 9000 R mbo Ahmat Ishakko wâyina ko ron kul tara. Hâgudu lêle 5/1/2021 Yunus Harunko wâyina, ko sukkarko korañ 3, kora yakunuñ 300 R mbo, chayo waragañ 2, waraga yakunuñ 100 R mbo kul tara.

Hâgudu lêle 10/1/2021 ilim, hilleñ kañgalanya tanja wî du njîjanta 15,000 R Kâda Zakariyawo ûña kul tara.

In ken 15/1/2021 ilim, hilleñ kañ na nîñ kîninjarnu tîran so ûllanja. Hâgudu lêle ilim Asiliye Arbabko wâyina ko ñamu jarkano 1100 R mbo ron, basalta du korañ 2 na 400 R mbo kul tanara. In ken âriñ tiban, so kûllañ, kâyirnu ñan waka.

Njîjanta nîbi gi hâbutuu naya mbo nîña mbo karras mo tunduña. Wî jîkala acal gim nduñ:

| Lêle | Mâyirna wî | Naci<br>(R) | Nînji<br>(R) | Nêrenji<br>(R) | Mirsi<br>kañgi<br>tañ | Keñek |
|------|------------|-------------|--------------|----------------|-----------------------|-------|
|      |            |             |              |                |                       |       |
|      |            |             |              |                |                       |       |
|      |            |             |              |                |                       |       |
|      |            |             |              |                |                       |       |
|      |            |             |              |                |                       |       |
|      |            |             |              |                |                       |       |
|      |            |             |              |                |                       |       |
|      | TORON      |             |              |                |                       |       |



## Acalta rûmukura nîŋ

| 1                  | 2                  | 3                  | 4                   | 5                    |
|--------------------|--------------------|--------------------|---------------------|----------------------|
| $1 \times 1 = 1$   | $2 \times 1 = 2$   | $3 \times 1 = 3$   | $4 \times 1 = 4$    | $5 \times 1 = 5$     |
| $1 \times 2 = 2$   | $2 \times 2 = 4$   | $3 \times 2 = 6$   | $4 \times 2 = 8$    | $5 \times 2 = 10$    |
| $1 \times 3 = 3$   | $2 \times 3 = 6$   | $3 \times 3 = 9$   | $4 \times 3 = 12$   | $5 \times 3 = 15$    |
| $1 \times 4 = 4$   | $2 \times 4 = 8$   | $3 \times 4 = 12$  | $4 \times 4 = 16$   | $5 \times 4 = 20$    |
| $1 \times 5 = 5$   | $2 \times 5 = 10$  | $3 \times 5 = 15$  | $4 \times 5 = 20$   | $5 \times 5 = 25$    |
| $1 \times 6 = 6$   | $2 \times 6 = 12$  | $3 \times 6 = 18$  | $4 \times 6 = 24$   | $5 \times 6 = 30$    |
| $1 \times 7 = 7$   | $2 \times 7 = 14$  | $3 \times 7 = 21$  | $4 \times 7 = 28$   | $5 \times 7 = 35$    |
| $1 \times 8 = 8$   | $2 \times 8 = 16$  | $3 \times 8 = 24$  | $4 \times 8 = 32$   | $5 \times 8 = 40$    |
| $1 \times 9 = 9$   | $2 \times 9 = 18$  | $3 \times 9 = 27$  | $4 \times 9 = 36$   | $5 \times 9 = 45$    |
| $1 \times 10 = 10$ | $2 \times 10 = 20$ | $3 \times 10 = 30$ | $4 \times 10 = 40$  | $5 \times 10 = 50$   |
| $1 \times 11 = 11$ | $2 \times 11 = 22$ | $3 \times 11 = 33$ | $4 \times 11 = 44$  | $5 \times 11 = 55$   |
| $1 \times 12 = 12$ | $2 \times 12 = 24$ | $3 \times 12 = 36$ | $4 \times 12 = 48$  | $5 \times 12 = 60$   |
| 6                  | 7                  | 8                  | 9                   | 10                   |
| $6 \times 1 = 6$   | $7 \times 1 = 7$   | $8 \times 1 = 8$   | $9 \times 1 = 9$    | $10 \times 1 = 10$   |
| $6 \times 2 = 12$  | $7 \times 2 = 14$  | $8 \times 2 = 16$  | $9 \times 2 = 18$   | $10 \times 2 = 20$   |
| $6 \times 3 = 18$  | $7 \times 4 = 21$  | $8 \times 3 = 24$  | $9 \times 3 = 27$   | $10 \times 3 = 30$   |
| $6 \times 4 = 24$  | $7 \times 4 = 28$  | $8 \times 4 = 32$  | $9 \times 4 = 36$   | $10 \times 4 = 40$   |
| $6 \times 5 = 30$  | $7 \times 5 = 35$  | $8 \times 5 = 40$  | $9 \times 5 = 45$   | $10 \times 5 = 50$   |
| $6 \times 6 = 36$  | $7 \times 6 = 42$  | $8 \times 6 = 48$  | $9 \times 6 = 54$   | $10 \times 6 = 60$   |
| $6 \times 7 = 42$  | $7 \times 7 = 49$  | $8 \times 7 = 56$  | $9 \times 7 = 63$   | $10 \times 7 = 70$   |
| $6 \times 8 = 48$  | $7 \times 8 = 56$  | $8 \times 8 = 64$  | $9 \times 8 = 72$   | $10 \times 8 = 80$   |
| $6 \times 9 = 54$  | $7 \times 9 = 63$  | $8 \times 9 = 72$  | $9 \times 9 = 81$   | $10 \times 9 = 90$   |
| $6 \times 10 = 60$ | $7 \times 10 = 70$ | $8 \times 10 = 80$ | $9 \times 10 = 90$  | $10 \times 10 = 100$ |
| $6 \times 11 = 66$ | $7 \times 11 = 77$ | $8 \times 11 = 88$ | $9 \times 11 = 99$  | $10 \times 11 = 110$ |
| $6 \times 12 = 72$ | $7 \times 12 = 84$ | $8 \times 12 = 96$ | $9 \times 12 = 108$ | $10 \times 12 = 120$ |