

# Kitab nintika nî - 2



*Livre de Calcul - 2*



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SIL Tchad  
Hadjer Hadid  
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*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 ndâña

Kitab gi nintika nî 1 mbo 2 mbo ye. Kaa kâddunjar kanaa masaraka nûre gâr enteye. Kitab gu gîlan hâkkuma Cad tag ndîjar, kangi yakunuɗ kana ta fandanɗ nogoloŋiɗ nulte tulte mbo tîndîjara. Kaa guca kâddi kanaa Gera taɗa mbo nâyirii wî kul kanaa tuu rok ena. Mi du inta molo kul kanaa masarak mbo morgoloŋiɗaye.

Kitab 1 ti kûde dora mbo ndisisa mbo tonosinje. Kitab 2 gi du kûde rûmukura mbo neña mbo tonosinje. Hâgudu lêleŋ subu taɗ mârî na wî mbo ayeje sene taɗa mbo nintika njiɗi taɗa mbo koy tenegiye. Hâgudu nintika njiɗanta nî mbo gâyiriya njiɗanta 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)

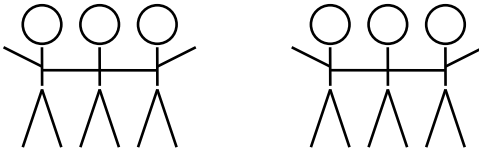
Usumi gi « × » ta uriye, ti rûmukura ambenjereye.

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

hâgudu gi noŋ dole lo dîsir koy mundunjiye: 
$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$$

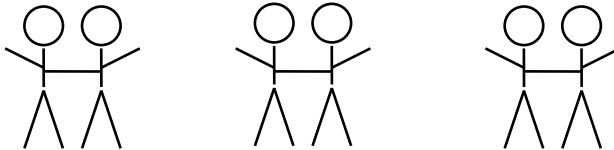
« × » ti kôma yakunuŋ hâbii tene wî ŋganna yoŋ ambindiriye.

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



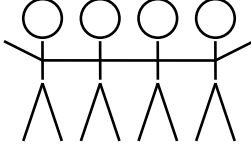
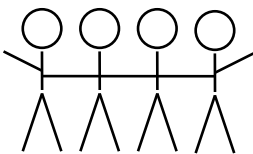
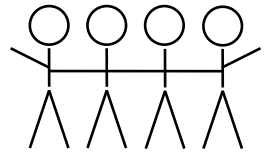
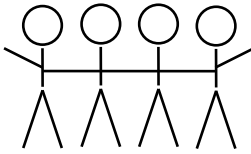
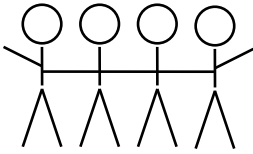
$$3 + 3 = 6$$

$$3 \times 2 = 6$$



$$2 + 2 + 2 = 6$$

$$2 \times 3 = 6$$



$$4 + 4 + 4 + 4 + 4 = 20$$
$$4 \times 5 = 20$$

**Acalta rûmukura nîj 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: Lîjira mînim hâbutuu mige wî mintini :**

1. Halime sîg mo ko ñamii jarkanañ 4 torona. Jarkana yakunuñ litirta 5 tene. Halime ti ñamu litirta ñganna tula ?

$$4 \times 5 = \dots\dots\dots$$

Hâgudu Halime ti tîyarce 6 tene, tîyar yakunuñ ñamu litirta 2 innde, tîyarce taña ñamii litirta ñganna innde ?

2. Rakiya dukkan mo ko asee korañ 3 tula, kora yakunuñ kelesketa 9 tene. Ti kooy kelesketa ñganna tulayoñ ?

Hâgudu jire tañ 4 lo kañgi yakunuñ kelesketa 3 ula, toron ñganna ula?

**Gulasira 2: Acalta rûmukura nîñ 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 nîŋ 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 nganna wanaroŋ ?
2. Kaa kambas 7 lo kaŋgi yakunuŋ bajii 2 wanara. Kooy toron bajii nganna wanaroŋ ?
3. Tajirta 3 lo sukkarko chuwalta 3 wanara. Kooy toron chuwalta nganna wanaroŋ ?

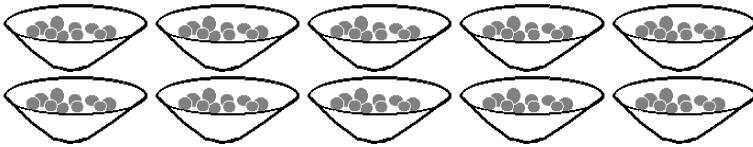
4. Bûgulaṅ nîḡ kâddunjar 8 lo kaṅgi yakunuḡ âriḡ 2 wanara. Kooy toron âriḡ ḡganna wanaroḡ ?
5. Iyaṅata 6 lo iyaṅa yakunuḡ basalta kômaḡ 4 wanara. Kooy toron kômaḡ ḡganna wanaroḡ ?
6. Iyaṅata 9 lo iyaṅa yakunuḡ tûmta kômaḡ 2 wanara. Kooy toron kômaḡ ḡganna wanaroḡ ?
7. Kimiḡ kâli 7 lo kara yakunuḡ siniyeḡ 3 wanara. Kooy toron siniyeḡ ḡganna wanaroḡ ?
8. Iyaṅata 4 lo iyaṅa yakunuḡ chetta kômaḡ 3 wanara. Kooy toron kômaḡ ḡganna wanaroḡ ?
9. Chekta 9 lo chek yakunuḡ njiḡanta âdumar 2 wanara. Kooy toron njiḡanta ḡganna wanaroḡ ?
10. Iyaṅata nîḡ kâddunjar 5 lo iyaṅa yakunuḡ kokor 3 wanara. Kooy toron kokor ḡganna wanaroḡ ?
11. Munjukul 22 lo munjukula yakunuḡ alinjii koro wanara. Kooy toron koraḡ ḡganna wanaroḡ ?

**Gulasira 2 : Acalta rûmukura nîḡ nandam :**

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

$6 \times 6 = \dots$	$7 \times 6 = \dots$	$8 \times 6 = \dots$	$9 \times 6 = \dots$
$6 \times 7 = \dots$	$7 \times 7 = \dots$	$8 \times 7 = \dots$	$9 \times 7 = \dots$
$6 \times 8 = \dots$	$7 \times 8 = \dots$	$8 \times 8 = \dots$	$9 \times 8 = \dots$
$6 \times 9 = \dots$	$7 \times 9 = \dots$	$8 \times 9 = \dots$	$9 \times 9 = \dots$
$6 \times 10 = \dots$	$7 \times 10 = \dots$	$8 \times 10 = \dots$	$9 \times 10 = \dots$

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



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

$$10 \times 10 = 100$$

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

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

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

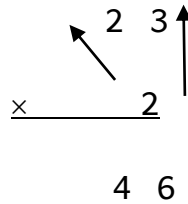
$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ \times 9 \\ \hline \end{array}$
--	--	---	--	---

## Giraye 20 Rûmukura kâddur na wî

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

Masal :

	ûtukta (û)	tîleta (t)
	2	3
x		2
	4	6



### Gulasira 1 : Rûmukura wî nintina nduŋ :

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

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

## Gulasira 2 : Acalta rûmukura nîŋ 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 Neña: « ÷ »

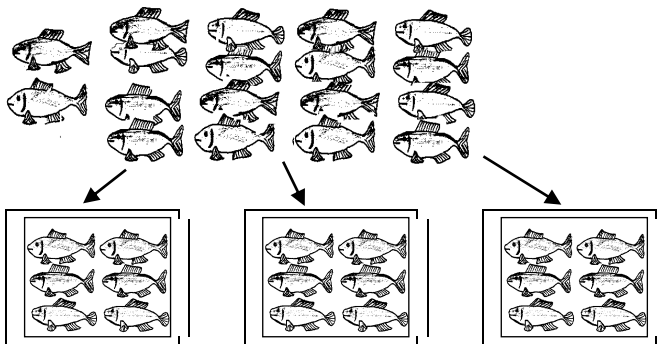
Usumi gi « ÷ » ti neña uriye, ti hâbutuu neneñe ye.

Tiro gi noñ mundunjiye:  $6 \div 2 = 3$

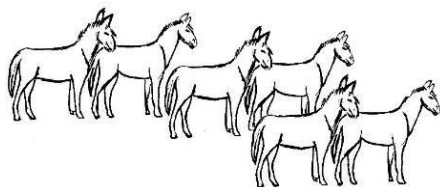
Masal:

1. Kaa 3 lo madaldim ko kûñoo 18 îñibina. Kûñoo 18 na wî ganii 3 eñeña. Kañgi yakunuñ kûñoo 6 ula.

$$18 \div 3 = 6$$



2. Beri wî ganii 2 meneñeñeran, som yakunuñ beri ñganna teneyoñ ?



$$6 \div 2 = 3$$

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 ndâyğara 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. Dûnguli tamiya 24 ludanğ kimiñ 6 teneğeña. Kimo yakunuğ ñğanna tûña ?

2. Daᅇa Abakar musumarta 32 kul gadaᅇ 4 tuccumaᅇa.  
Gada yakunuᅇ musumarta ᅇganna tula ?

3. Ishak ganu basalta n̄u ne, teberekta 100 ken, kaa  
n̄unduᅇuki somta 10 tena. Som yakunuᅇ teberekta  
ᅇganna tula ?

4. Ḡuca kanaa masarak n̄i gi b̄uga tum kobolokta 3  
t̄utturaᅇa, FAM kar s̄ogu chuwalta 96 ᅇ̄u, h̄agudu  
ᅇamu kortonaᅇ 7 t̄uᅇa, kortona yakunuᅇ jarkanaᅇ 3  
tene. Kobolok yakunuᅇ s̄ogi chuwalta ᅇganna kul,  
ᅇamii jarkanaᅇ ᅇganna 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

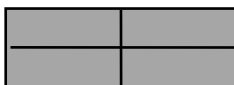
## Caki mbo caki ta caki mbo

Yakub kimiņ 2 ne âsurtu teneņeņa, kima yakunuņ caku-caku tûņa. Caki gi ti gi noņ katab ken mundunji :  $\frac{1}{2}$ .



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

Kaņgi tu du kimiņ 4 ne âsurtu teneņeņa. Kima yakunuņ caki ta caku tula. Caki ta caki ti gi noņ katab ken mundunji :  $\frac{1}{4}$  . Caki ta caki mira-ken ti rubu ye.



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

Hâgudu hâbutu yakunuņ eneņe-ken, caki noņ, caki ta caki noņ enegiye.

Masal : Moņgeta 40 na wî, caki ta gi 20 ye.

Caki ta caki du 10 ye.

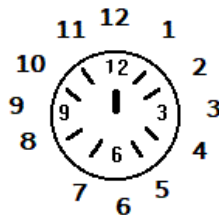
### Gulasira:

1. Kaņgi ba asee koraņ 2 tene-ken, cakiņ ņganna tene ?
2. 48 igi, caki ta ņganna ye ? Hâgudu caki ta caki ņgannaye ?
3. 12 igi, caki ta ņganna ye ? Hâgudu caki ta caki ņganna ye ?

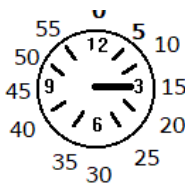
## Giraye 23

## Njindu nosinja

Lêle tîle ti saŋ 24 tene.  
Nenjere sa ta gi, ti dortola ye.  
Ti lêlem joo mbîr tamalanje.



Sa tîle gi, ti dâgigaŋ 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

Njindiŋ wîwo nandadala sîkal :



3:30

Njindi gi sa 3  
dole caku  
ambenjerewe



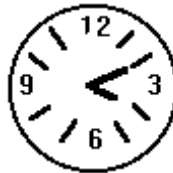
8:15

Njindi gi sa 8  
dole rubu  
ambenjerewe



10:45

Njindi gi sa  
11 tûtiŋ mo  
rubu kûyyo  
ambenjerewe



4:10

Njindi gi sa 4  
dole dâgigaŋ  
10  
ambenjerewe



4:55

Njindi gi sa 5  
tûtiŋ mo  
5 kûyye  
ambenjerewe



6:40

Njindi gi sa 6  
dole 40  
dâgigaŋ  
ambenjerewe

**Gulasira 1:**

1. Njindiŋ wî saŋ nganna ambenjerewe ?



2. Dâgigaŋ 120 na wî, saŋ nganna eneyoŋ ?

3. Dâgigaŋ 180 na wî, saŋ nganna eneyoŋ ?

4. Dâgigaᅇ 90 na wî, saᅇ ᅇganna eneyoᅇ ?
5. Dâgiga tîle ti sâᅇiyeyᅇ 60 tene. In ken, dâgigaᅇ mbara caki na wî sâᅇiyeyᅇ ᅇganna eneyoᅇ ?

## **Gulasira 2**

1. Fatime ta baba âsurum joom tayi-ken, sa mbo tîke, hâgudu ajala mbo tayi-ken, dâgigaᅇ 15 mbo tîke. Joom tîke gi mbo ajala mbo tîke gi mbo wâri înim dâgigaᅇ ᅇganna teneyoᅇ ?

2. Îsa ta baba âsurti ta gu dâgigaᅇ 100 mbo toye. Âsurti to caku toyoyi-ken, dâgigaᅇ ᅇganna mbo toye ? Hâgudu âsurti to caki to caku toyoyi-ken, dâgigaᅇ ᅇganna mbo toye ?

3. Tîrimbil Abeche lo sa 3:00 kurnaᅇ maldali Murra sa 3:45 tara. Ili molo kurnaᅇ Am Leyuna sa 4:10 tara. Hâgudu ilim dâgigaᅇ 20 tununara. Ili molo kurnaᅇ Chetete tare gu, dâgigaᅇ 50 tula. Hâgudu Chetete lo Kuma Rebem sa mbo tara. In ken Abeche lo Kuma Rebem saᅇ ᅇganna mbo tara ? Hâgudu sa ᅇganna tara ? Wâri yakunuyᅇ gani tam nduyin, njindiᅇ tula wî rakiti.

Abeche – 3 : 00

Murra – .....

Am Leyuna - .....

Gurnanja - .....

Chetete - .....

Kuma Rebem - .....

## **Giraye 24            Seno gosinja**

Giraye naraᅇa gim wî mosiᅇa:

Lêle tîlem **saᅇ 24** tene.

Sa tîle **dâgigaᅇ 60** tene.

Dâgiga tîle **sâniyeᅇ 60** tene.

In ken,

1. Sa tîle sâniyeᅇ ᅇganna tene ?
2. Hâgudu saᅇ 72 na wî lêleᅇ ᅇganna tene ?
3. Hâgudu saᅇ 48 na wî lêleᅇ ᅇganna tene ?

Giraye gim **subuᅇ mbo ayeje mbo** mintinteye.

**1) Subu tîle ti lêleᅇ 7 tene.**

Lêleᅇ wî i atinen – talata – arba – Kamis – jime – sabit – ahat noᅇ ye.

In ken,

1. Subuᅇ 3 na lêleᅇ ᅇganna ene ?
2. Lêleᅇ 56 na subuᅇ ᅇganna ene ?
3. Lêleᅇ 35 na subuᅇ ᅇganna ene ?

**2) Sene ti lêleᅇ 365 tene.**

Hâgudu sene **subuᅇ 52** noᅇ tene.

Hâgudu sene **ayeje 12** tene.

**Ayeje 12 na wî i :**

Aye 1 gi lêleᅇ 31 tene.

Aye 2 gi lêleᅇ 28 tene, yagu sininta 4 tuᅇuno koy, sene aslaᅇa gim lêleᅇ 29 tene.

Aye 3 gi lêleᅇ 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 tudan̄a. Lêle yakunuŋ saŋ 6 kadam tena. In ken kooy toron saŋ ŋganna mbo tudan̄a ?
2. Bûrti Mon̄go lo Bitkin naka gu lêlen 280 mbo orgola. In ken subuŋ ŋganna mbo orgola ? Hâgudu seno ulitiŋ mo lêlen ŋganna kûyyoŋ ? Hâgudu aye 1 subuŋ 4 tene-ken, ayeje ŋganna mbo orgola ?
3. Maraŋa âgu ûsusan̄gi tam ko rûse dâgigaŋ 45 tindena. ûsusan̄gi tîŋara, rayin tîbini gu dâgigaŋ 45 mbo tîbina. In ken kooy toron saŋ ŋganna ûka ?
4. Haluwa waram ko joo mbîr ŋun kawalko rucan̄ kul tanara. Hâgudu lêle mbo ŋûrun âgum tuluna. Lêlen 7 tuŋuna ndor tândajiŋa, 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 ?



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

## Rûmukura ûtuk mbo seltenji mbo âdumo mbo

1. Rûmukura **ûtuk** mbo murmukuli-ken,  
nintika gîlan na gu ûyom nan, kûyyo de rok migeti:

$$26 \times 10 = 260$$

$$78 \times 10 = 780$$

2. Rûmukura **seltenji** mbo murmukuli-ken,  
nintika gîlan na gu ûyom nan, kûyyan 2 rok migeti:

$$26 \times 100 = 2600$$

$$78 \times 100 = 7800$$

3. Rûmukura **âdumo** mbo murmukuli-ken,  
nintika gîlan na gu ûyom nan, kûyyan 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 gîlaŋ gani tîle tam (t) ninda wî nintin-kodo, hâgudu gani ûtuk tam (û) ninda wî nitin,

### Masal :

Lama mbarlaŋa gi:

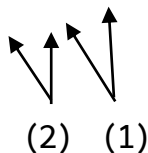
Lama gîlaŋ gi:

Rûmukura gîlaŋgi:  $85 \times 9$

Rûmukura mbarlaŋa:  $85 \times 40$

Toron

â	s	û	t
	(+3)	(+2)	
	(+7)	(+4)	
		8	5
		4	9
×			
(+1)	7	6	5
+ 3	4	0	0
4	1	6	5



$$\begin{array}{r}
 \begin{array}{r}
 \overset{(2)}{\cancel{(4)}} \\
 85 \\
 \times 49 \\
 \hline
 (1)765 \\
 + 3400 \\
 \hline
 4165
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{(2)}{56} \\
 \times 14 \\
 \hline
 224 \\
 + 560 \\
 \hline
 784
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{(1)}{42} \\
 \times 18 \\
 \hline
 336 \\
 + \dots 0 \\
 \hline
 \dots
 \end{array}
 \qquad
 \begin{array}{r}
 37 \\
 \times 23 \\
 \hline
 \dots
 \end{array}
 \qquad
 \begin{array}{r}
 89 \\
 \times 20 \\
 \hline
 \dots
 \end{array}
 \end{array}$$

$$\begin{array}{r} 43 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 156 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 225 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 3451 \\ \times 66 \\ \hline \end{array}$$

$$\begin{array}{r} 509 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 2870 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 318 \\ \times 16 \\ \hline \end{array}$$

$$\begin{array}{r} 192 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 1225 \\ \times 52 \\ \hline \end{array}$$

$$\begin{array}{r} 170 \\ \times 41 \\ \hline \end{array}$$

$$\begin{array}{r} 2004 \\ \times 38 \\ \hline \end{array}$$

## Giraye 27

## Neña kâddur na wî

Neña kâddur na wî gani kâddur molo sonam meneḡe.

### Masal :

Asee chuwalta 528 nar, hilleje 4 mo meneḡeḡto minnde. Hille yakunḡ chuwalta ḡganna tultiyoḡ ?

Dole lo disir mintini :

$$\begin{array}{r} \begin{array}{r} \xrightarrow{\hspace{1cm}} \\ 528 \\ -4\downarrow \\ \hline 12 \\ -12\downarrow \\ \hline 08 \\ -8 \\ \hline 0 \end{array} \quad \begin{array}{r} 4 \\ \hline 132 \end{array} \end{array}$$
$$\begin{array}{r} \phantom{4} \\ \hline 132 \\ -4 \\ \hline 12 \\ -12 \\ \hline 8 \\ -8 \\ \hline 0 \end{array}$$

In ken :  $528 \div 4 = 132$

### Gulasira 1:

$$\begin{array}{r} 96 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 145 \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 680 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 375 \quad 5 \\ \hline \end{array}$$

$$3 \overline{) 96}$$

$$5 \overline{) 145}$$

$$8 \overline{) 680}$$

$$5 \overline{) 375}$$

## Gulasira 2: Nena renja mbo

$$\begin{array}{r|l} 79 & 3 \\ - 6 & \\ \hline 19 & 26 \\ - 18 & \\ \hline 1 & \end{array} \quad \begin{array}{r|l} 137 & 4 \\ & \\ \hline & \end{array} \quad \begin{array}{r|l} 523 & 5 \\ & \\ \hline & \end{array} \quad \begin{array}{r|l} 476 & 9 \\ & \\ \hline & \end{array}$$

Gim 1 tereña

$$4 \overline{)137} \quad 5 \overline{)523} \quad 9 \overline{)476}$$

## Gulasira 3:

$$\begin{array}{r} 65 \\ 5 \overline{)325} \\ \underline{30} \\ 25 \\ \underline{25} \end{array} \quad 7 \overline{)429} \quad 12 \overline{)90} \quad 11 \overline{)145}$$

$$6 \overline{)436} \quad 3 \overline{)513} \quad 20 \overline{)550} \quad 4 \overline{)286}$$

## Giraye 28 Landir jera bûri nintika 4 na nîh

Nintin :

$$\begin{array}{r} 256 \\ + 607 \\ \hline \end{array}$$

$$\begin{array}{r} 1168 \\ + 96 \\ \hline \end{array}$$

$$\begin{array}{r} 1026 \\ + 9117 \\ \hline \end{array}$$

$$\begin{array}{r} 6356 \\ + 4299 \\ \hline \end{array}$$

$$\begin{array}{r} 139 \\ - 117 \\ \hline \end{array}$$

$$\begin{array}{r} 386 \\ - 108 \\ \hline \end{array}$$

$$\begin{array}{r} 5347 \\ - 2964 \\ \hline \end{array}$$

$$\begin{array}{r} 4572 \\ - 1286 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 125 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 856 \\ \times 79 \\ \hline \end{array}$$

$$4 \overline{) 176}$$

$$12 \overline{) 284}$$

$$12 \overline{) 1428}$$

$$11 \overline{) 4646}$$

## Giraye 29







## Njinanta nosinja



Mi njinanta Cad taña wî mesere-ken, faranĵka (F) mbo katab enaye, yagu mi riyal (R) mbo mûmme.

Faranĵka gu, tîngi FCFA mbo katab ige, yagu riyal gu R mbo katab ige.

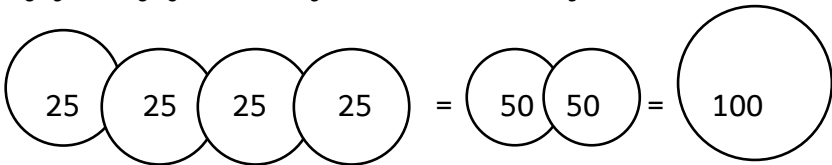
Hâgudu riyal 1 gi ti faranĵka 5 tene. **1 R = 5 FCFA**

Acal dâsir 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

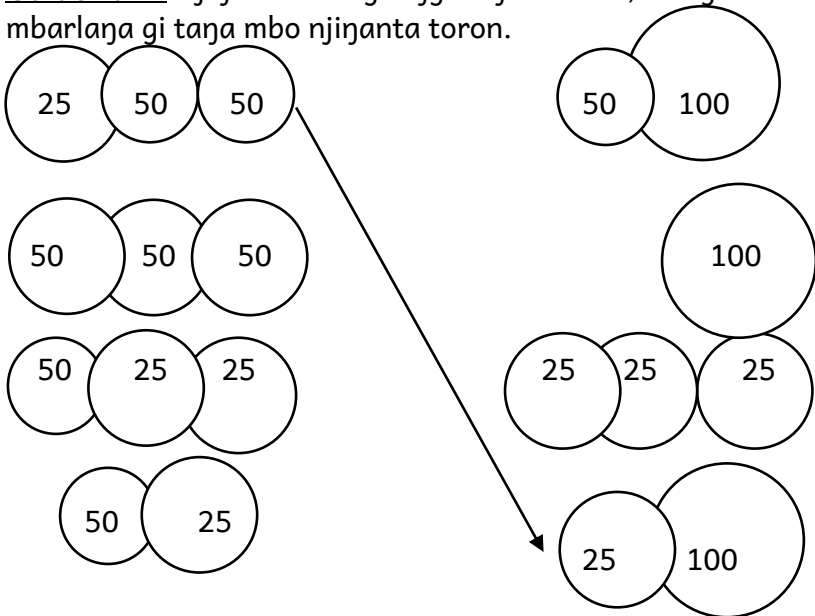
	5000 F CFA	1000 Riyal	1000 R
	10000 F CFA	2000 Riyal	2000 R

Njinanta jayi munduŋa wî nintina kosinj:



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

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



**Gulasira 2:** Njinanta waragatta munduŋa wî dorona nganna ûkan kosin

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

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

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

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

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

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

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

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

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



**Gulasira 3 : Nintini**

$$1000 \text{ FCFA} + 100 \text{ FCFA} + 25 \text{ FCFA} = \dots 1125 \dots \text{ FCFA}$$

$$2000 \text{ FCFA} + 1000 \text{ FCFA} + 500 \text{ FCFA} = \dots 3500 \dots \text{ FCFA}$$

$$2000 \text{ FCFA} + 2000 \text{ FCFA} + 500 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$5000 \text{ FCFA} + 2000 \text{ FCFA} + 100 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$10000 \text{ FCFA} + 5000 \text{ FCFA} + 500 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$5000 \text{ FCFA} - 2200 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$2000 \text{ FCFA} - 825 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$10000 \text{ FCFA} - 7650 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$1000 \text{ FCFA} - 675 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$10000 \text{ FCFA} - 525 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$5000 \text{ FCFA} - 4200 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$25000 \text{ FCFA} - 8670 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$20000 \text{ FCFA} - 17500 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

$$15000 \text{ FCFA} - 14850 \text{ FCFA} = \dots \dots \dots \text{ FCFA}$$

## **Giraye 30 Riyal molo Faranĵka nûndura**

R molo FCFA mûndulto minnde-ken, rûmukura 5 mbo rûmukul mosiŋti.

Masal:

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

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

### **Gulasira 1: Riyal molo faranĵka nûndul.**

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. Ŋganna katab ena?
2. Âbakar Anjimena lo kîredu 2000 R Katir tindam tenjebena. Katir tâlafun tam tîkala gu, Faranĵka mbo katab enaye. Ŋganna katab ena?
3. Kadija bânkim 3500 R tunduŋa, waraga bânki ta gim, Faranĵko ŋganna unduŋoŋ?

4. Mahamat sũgko ken subu nalfina gim lêle yakunuŋ njiŋanta 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 Faraŋka ŋanna ye?

Hâgudu kooy toron ŋanna ye, Riyal mbo Faraŋka mbo?

### **Giraye 31 Faraŋka molo Riyal nũndura**

FCFA molo Riyalko mũndulto 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. Achta Abache lo kîredu 1000 FCFA tenjebena. Adam riyal mbo ŋanna tarka?

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

3. Sâdiya njiŋanta Net taŋa 125 FCFA toyna, so ûŋa. Riyalta ŋanna ye?

## **Gulasira 2: Gulasira njinanta nî**

1. Jâzzari malta nidibake gi jôci 3 torona, jâwi yakunuŋ 1300 R mbo torona. Jôci 3 na riyalta nganna ye?

Hâgudu faranŋa mbo nganna ye?

2. Musa kokor 4 ndîŋ ron 2000 R tarka. Kokori yakunuŋ nganna mbo torona? Hâgudu faranŋa mbo nganna ye?

3. Mâriyam birinjalta kortonaŋ 4 torona, kortona yakunuŋ 170 R mbo torona. Hâgudu ndîŋ ron kortonam 40 R tarka. Kooy riyalta nganna tarkonŋ? Hâgudu kortona yakunuŋ nganna mbo ndîŋ torona?

4. Ibrahim kori asee koro 40 R mbo torona. Hâgudu ûraŋa asee imira, koro 70 R mbo koraŋ 18 torona. Ba kori torokeyer-ken, hassa tîndiŋa wî nanna tîndiŋndiyere. Kori mbo hassa na mbo wâri îni nganna 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. Njinanta nganna nda êreŋa?

6. Kanŋi nîme gu tafag nige gi lêlo 300 R mbo tûse. Dargo kîme joo 55 mbo onoda. Kooy riyalta nganna tarka?

## Giraye 32 Acal naci mbo nînji mbo landir jera

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

Bûgulañ hille taña âsurtu menti ru, tîran fîlta koran 5,5 toron, njiñanta du kañgim 400 R ken odorona. Njiñanta nîbi gi acalko ken hâbutuu wâyirna wî kooy tunduña. Acal ta gu nandadala jîkala kosiñ:

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

### Nîkariyaa:

1. Lêle 3/3 gim, ngata lo njiñanta wanara?
2. Amir lêle nganna njiñanta tañ tanara?
3. Mukurat ta kâciñe nganna mbo orona?
4. Lêle 1/7 gim, sânduk îni njiñanta nganna teneyye?

5. Hâbii innde wî kooy ron ula njiñanta nganna nda êreña?

6. Bûgulañ wî sânduk înim njiñanta nganna toron, nganna îndiña?

**Gulasira 1:**

Som mûcoo nîm njiñanta nîbu Dañgiyawo unduña.

- Aye 3 lêle 1 gim, Mâriyam noñ Matara noñ Kadija noñ lo 600 R nar unduña.
- Aye 3 lêle 2 gim, Hawata Zakiya mbo 200 R wanara.
- Aye 3 lêle 3 gim, hâbutu dîra înim wañanti 240 R mbo orona.
- Hâgudu lêle ilim de iñantiña 160 R mbo orona.

Acal Dañgiya ta gim njiñanta naya mbo nîña mbo hâgudu nêreña mbo nduñ.

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

## Giraye 33 Acal menndeni ta

Acal gu nandadala jîkala kosinj :

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

1. Hâbii ŋgârii molo faydo tarka?
2. Ŋgârii molo kasara tarka?
3. Ŋgâri tenar-ken kasara tarkindiyeronj?
4. Maji molo ŋgâri tarka? Ŋgo ru inko tûka?
5. Njinanta kooy toron ŋganna tîndiŋa, ŋganna tarka? In ken kooy toron faydo ŋganna tarka?

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

Mâriyam ti arba Tîrti ko sûgko tige.

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

- Hâgudu alinju ûduno koraŋ 19, alinju ûdunndo du koraŋ 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 toroke wî	Ŋganna	Ron tula wî (R)	Nđiŋ torona wî (R)	Tarka wî (R)	Jera
<b>TORON</b>						

Hâgudu kanaa wî gâr gena nintina acal ninda ilim nduŋ:

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



- Mâriyam mariyaa ndîŋ torokeyaka fayde 2400 R tinndegiye. Ti mariyaa nganna mbo ndîŋ toronti?

Hâgudu acal kandama gu kîkala, nîkariyaa wî landir:

1. Mâriyam ti fîlta chuwal yakunuŋ nganna mbo ndîŋ torona?

2. Mâriyam alinji ûduna gu koro nganna mbo ndîŋ torona? Ti koram 10 Riyalko tarkito tinnde-ken, koro nganna mbo ndîŋ toronte yêyye?

3. Mâriyam mariyaa chuwal yakunuŋ nganna mbo ndîŋ torona?

4. Lêle ilu Mâriyam njiŋanta kooy nganna tîndiŋa? Hâgudu ndîŋ torona gim njiŋanta kooy toron nganna tarka? Hâgudu faydo kooy toron nganna tarka?

### **Gulasira 2:**

Lêle 5 aye 11 sene 2020:

- Zârga arko 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 toroke wî	Ŋganna	Ron tula wî (R)	Ndîŋ torona wî (R)	Tarka wî (R)	Jera
<b>TORON</b>						

## **Giraye 34 Acal hâbutuu gentiŋa toron geya nî**

Hâbutuu gento ninnde-ken, gîlaŋ acal mo kooy nduŋ kosiŋ-kodo ndâŋinti.

**Masa:** Acal gi gîmeya ta ye, nandadala jîkala kosiŋ :

Sûmi	Mirsi hâbutuu ninnde gi taŋ	Ŋganna	Tîle njiŋanta ŋganna (R)	Toron (R)
1	Tûbta furni	1500	8	12000
2	Wardi	Karraŋ 5	200	1000
3	Saa	Bîrmilta 6	100	600
4	Ida	3	500	1500
5	Kachabta	2	1200	2400
6	Zîŋki	5	1000	5000
7	Nîmeg	joo 3	1000	3000
8	Wardu nûnjig	joo 3	400	1200
9	Dûsuŋo	1	2000	2000
10	Baraŋu	1	600	600
11	Musmarta	kîlo 1	300	300
			<b>KOORY TORON</b>	<b>29600</b>

1. Oda gi tûbta ŋganna tultiyoŋ ?
2. Tûbta 500 rok ento innde-ken, njiŋanta ŋganna rok entiyoy?
3. Nîme gi joo ŋgnana mbo tîmantiyoy ?
4. Oda gi baraŋ taŋ ŋgannaye ?
5. Oda gim hâbutuu unduŋnda tinda-ken nduŋ !
6. Kaa hille taŋ wardi mbo saa mbo wanaran, nene njiŋanta tîndiŋtiŋa ŋganna ûkasi ?

## **Gulasira 1**

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

Sûmi	Mirsi hâbutuu ninnde gi tañ	Nganna	Tîle njiñanta nganna (R)	Toron (R)
1	Tokotir		200	
2	Gemberi			
3				
4				
5				
6				
7				
			<b>KOORY TORON</b>	

1. Kobolok gi kooy toron njiñanta nganna tinnde ?
2. Kaa gûca tañ hâkkumam koku acal gu înjikala, hâkkuma du acalko sîkalu 4000 R tûña. In ken kaa gûca tañ nganna ndîñar enteye ?
3. Hille gi taña, tañ 50 ye. Tañi yakunuñ njiñanta nganna enin, kobolok gu enteye ?

## **Gulasira 2**

Hille tum kañgi Ibrahim uri nadu tenteyaka, hâbutuu tanartiña wî acal gim tunduña. Kandadal kîkala, hâbutuu nîñan tunduñdan, rok nda kenin-kodo,

njinanta nganna ndiŋ tentiyan, acalmo kodorona kosiŋi.

Sûmi	Mirsi hâbutuu ninnde gi taŋ	Ŋganna	Tiŋle njinanta nganna (R)	Toron (R)
1	Bâbur	1	16000	
2	Telefizunta	3	14000	
3	Sammata	2	10000	
4	Bâlitta	2	200	
5	Baji	3	2000	
6	Tarbezaŋ	3	600	
7	Silik karaba	Mitirta 30	150	
			<b>KOORY TORON</b>	

### **Gulasira 3**

Ki gâyiriya kînu kene koy acal gim nduji :

Sûmi	Mirsi hâbutuu ninnde gi taŋ	Ŋganna	Tiŋle njinanta nganna (R)	Toron (R)
1				
2				
3				
4				
5				
6				
7				
			<b>KOORY TORON</b>	

## Giraye 35      **Acal wisil ta gi**

Wisil ti hâbutuu dukkanmo ko gula ila mbo njiñanta ndîña ila mbo, hâgudu njiñanta nula gi taña mirsi mbo keñek ta mbo undunjiye.

Wisil gu ngâri ta jam igegiye? Tiro hâbutuu alle gula ila nganna mbo gula yoñ goste ta jam igegiye. Hâgudu kañgi ndâyinan koy hâbi nara gu nganna mbo ron nara yan taste ta jam ûnjiye.

Wisil gu nandadala jîkala kosij:

**MIRSI DUKKAN TAÑA: .....**

Lêle: .....6/12/2020.....

No.: 0010

Sumi	Mirsi hâbutuu gula gi tañ	Nganna	Tîle njiñanta nganna (R)	Toron (R)
1	Karrasta	Dastañ 2	180	360
2	Galamta	20	20	400
3	Tabachira	Kortona 1	400	400
			<b>KOORY TORON</b>	<b>1160</b>

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

1. Kañgi gi karrasta dastañ nganna tula? Hâgudu nganna mbo tula?
2. Galamta nganna tula? Hâgudu tîlo nganna mbo tula?

3. Hâbii tula wî kooy toron njiñanta nganna tîndiña?
4. Hâbii wî dukkan ngatam tulaye?

**Gulasira 1**

Ama Abdalmajid te, Fatime wâri tâcacirnite heluñ 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 yakunuñ 100 R mbo tula. Hâgudu adawatta but-but na 10 tula, tîle 20 R mbo tula. Hâgudu saa kumura taña tîlo 400 R mbo tula. Hâgudu gazazañ 3 tula, gazaza yakunuñ 380 R mbo tula. Hâbutuu tula wî kooy njiñanta nganna tîndiñan, acal wisil ta gim nduñ:

DUKKAN .....

**WISIL**

Lêle: ...../...../.....

No.: 0011

Sûmi	Mirsi hâbutuu gula gi tañ	Nganna	Tîle njiñanta nganna (R)	Toron (R)
1				
2				
3				
4				
5				
			KOORY TORON	

Keñek dukkan ta nene gi ta .....

## **Gulasira 2**

Bakit taŋu 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 nîŋa 4 furŋgi noŋ âgunati noŋ zari  
noŋ rayŋgi noŋ, tîlo 150 R mbo tula.

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

Maŋ dukkan ta nene le, wisilko katab nda ken:

**DUKKAN .....**

**WISIL**

**Lêle: ...../...../.....**

**No.: 0012**

<b>Sûmi</b>	<b>Mirsi hâbutuu gula gi taŋ</b>	<b>Ŋganna</b>	<b>Tîle njiŋanta ŋganna (R)</b>	<b>Toron (R)</b>
1				
2				
3				
4				
5				
			<b>KOORY TORON</b>	

**Keŋek dukkan ta nene gi ta .....**



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

Acal njiņanta nîbi gi taņa ganii mbara ye : tu acalmo kûde njiņanta nula gi keņek tigeteye, tu du wisil mo keņek tigeteye.

Njiņanta nîbi gi ti hâbutuu 3 na wî mbo tâyiriteye :

- 1) Karras ta gim acalko njiraņ naci mbo nînji mbo kooy tundunjiteye.
- 2) Wisil kaa nda wanara gi noņ, ti tûņa gi noņ, kooy adal tigeteye.
- 3) Gûca ta kâddi yoņ tiro nûrci yoņ koy waraga haywa riya katab ken tûņa wanaran, haywa riya ilu koy wisilta mbo gê adal tigeteye.

Acal mbo wisilta mbo haywa riya mbo munduņa wî nandadala jîkala kosij :

### **ACAL**

<b>Lêle</b>	<b>Mâyirna wî</b>	<b>Naci (R)</b>	<b>Nînji (R)</b>	<b>Nêrenji (R)</b>	<b>Sumi wisil ta</b>
3/11/2020	Fîlta ndîņ morona	20000		20000	1
10/11/2020	Kobolokko rogora		15000	5000	2
16/11/2020	Kaa hille taņ wanara wî	12000		17000	3
20/11/2020	Tabchiraņ kortona 1		400	16600	4
25/11/2020	Majirinta sajjal 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 njiñanta ngârii molo tarka ?
2. Hâbii ngâriim njiñanta nîyembo tîndiña ?
3. 17/11/2020 ilim kûji înim njiñanta nganna teneyyoŋ ?
4. Wisil tabachiraŋ nî gu ninnde-ken, sumi ngannam rakiti ?

a) Wisil kobolokko rogora nî gu, usta Mahamat Zên lo ludaŋ, kaa gûca taña tûña. I du njiñanta nîbi gim wanaŋaa, njiñanta tûña naŋ ûña.

**WISIL**

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

Sumi: 002

Sumi	Mirsi hâbutuu gula gi taŋ	Ŋganna	Tîle njiñanta nganna (R)	Toron (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 niraja wî	kaa 4	750	3000
7	Karra	karra 1		1000
8	Njêti kaa kadam nena wî	kaa 4		1100
			<b>KOOY TORON</b>	<b>15000</b>

.....  
**MAHAMAT ZÊN**

Nîkariyaa :

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

b) Âfandi sâbburo annde ru, gûcam taka. Gûca ta kâddig warago haywa riya tûña, njiñanta nîbi gim tanaja, njiñanta nîbig sîkal tûña.

### HAYWA RIYA

Lêle: ...30/...11/...2020.....

Sumi: 006

Sumi	Kanaa	Ŋganna	Tîle njiñanta ŋganna (R)	Toron (R)
1	sâbbura	1	2000	2000

**Mirsi kaŋgi nulte gi taña:**

...Hassan Juma.....

**Mirsi kaŋgi haywa riya nûña gi taña:**

...Ibrahim Adam...

.....

Gûca ta kâddi

Âfandi

Njiñanta nîbi gi ndañ-ndañ 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 tundunji ilim, tarik ta mbo, hâgudu hâbutuu tîndiŋa yoŋ tula yoŋ, hâgudu mirsi kaŋgi nanara gi taŋa yoŋ, nula gi taŋa yoŋ, hâgudu njiñanta koy ŋganna îndiŋa 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 tigeteŋe.
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 teserteŋe.
5. Hâgudu njiñanta nîbi gi karras ta mbo wisilta mbo haywa riyata mbo kooy gani tîlem de toron adal tigeteŋe.

Gâyiriya wisilta mbo ige gi nîyembo kallaye, yagu wisil kûyyendan koy, karras acalta nî gi molo de mirsi njiñanta nula gi taña mbo nûña gi taña mbo katab ken keñek igeteye.

Acal dâsir na gim nandadal sîkal:

Lêle	Mâyirna wî	Naci (R)	Nînji (R)	Nêrenji (R)	Mirsi kangi tañ	Keñek
1/9/20	Sanduk mo ninda			5000		
5/9/20	Keñkeñañ 2		1000	4000	Adam	Adam
	Kôrek 1		500	3500	Musa	M
11/9/20	Chetteta teberek 1		1400	2100	Kadije Yusuf	<i>KadY</i>
15/9/20	Kaa gûca taña wanara	1500		3600	Babikir Katir	<i>Babikir KTR</i>
	<b>TORON</b>	<b>1500</b>	<b>2900</b>			

Nîkariyaa:

1. Aye 9 wândañini gim, njiñanta kûjim nganna eneyye?
2. Adam Musa ti njiñanta nganna tula?
3. 11/9/20 gim Kadije ngâru torona?
4. Kaa gûca tañ njiñanta odorona wî nga lo njiñanta nîbi gim tanara?
5. Hâgudu kûji înim njiñanta nganna êreña?

**Gulasira:**

Hilleŋ mbara Tîrti mbo Ureta mbo tîran so ûllaŋkeyaka ûcaŋa. So ûllaŋi gim, lêle 1/1/2021 kûjim njiŋanta 60,000 odorona.

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

Hâgudu lêle 10/1/2021 ilim, hille kaŋgalaja taŋa wî du njiŋanta 15,000 R Kâda Zakariyawo ûŋa kul tara.

In ken 15/1/2021 ilim, hilleŋ kaŋ na nîŋ kîninjarnu tîran so ûllaŋa. Hâgudu lêle ilim Asiliye Arbabko wâyina ko ŋamu jarkano 1100 R mbo ron, basalta du koraŋ 2 na 400 R mbo kul tanara. In ken âriŋ tiban, so kûllaŋ, kâyirnu ŋan waka.

Njiŋanta nîbi gi hâbutuu naya mbo nîŋa mbo karras mo tunduŋa. Wî jîkala acal gim nduŋ:

Lêle	Mâyirna wî	Naci (R)	Nînji (R)	Nêrenji (R)	Mirsi kaŋgi taŋ	Keŋek
	<b>TORON</b>					



## 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	$10 \times 12 = 120$