

Girsinəndi āsa gı mani gı bii gı chibne 2

$$\begin{array}{r} 126 \\ + 237 \\ \hline 363 \end{array}$$

Maktubu di idi āsa mani gı bii gı chibne
Livre de calcul avancé en langue soumraye

Girsinəndi āsa gi mani
gi bii gi chibne
2

Livre de calcul avancé
en langue soumraye

Doumougou, Canton Soumraye, Tandjile-Est
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Langue : Chibne (soumraye), parlée dans le canton
soumraye, sous-préfecture de Déressia, département
Tandjilé-Est

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soumraye, volume 2

Genre : matériel didactique – livre de calcul avancé

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Langue Chibne (A.D.L.C.)

Avant – propos

Ce document est un livre de calcul avancé destiné aux locuteurs soumraye. Il est basé sur les connaissances du livre calcul 1 en langue soumraye, qui contient l'addition et la soustraction des chiffres 1 – 20.

Ce livre de calcul 2 enseigne toutes les quatre opérations: L'addition, la soustraction, la multiplication et la division d'une façon orale et écrite. Il présente aussi les notions de temps, de distance, de poids et de volume, ainsi que la monnaie FCFA.

Chaque leçon est accompagnée d'exercices d'application et de dessins pour faciliter sa compréhension.

Nos remerciements vont à la Direction de la Promotion des Langues Nationales (DPLN) pour le droit de traduire et d'adapter leur livre de calcul.

Aux apprenants soumraye d'en tirer grand bénéfice et de mieux calculer dans la vie quotidienne ou dans le commerce !

Āsa gī mani sumīw

!Wacḡanandi āsa gī mani me jangagī dii subu!

0 _____ _____ _____ ilə bədə

1 _____ _____ _____ mīn

2 _____ _____ _____ sīr

3 _____ _____ _____ subu

4 _____ _____ _____ wodī

5 _____ _____ _____ jii

6 _____ _____ _____ kubi

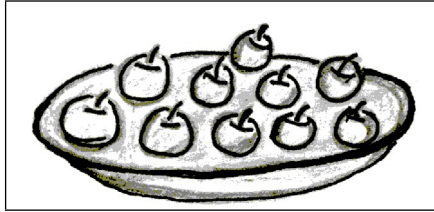
7 _____ _____ _____ wurgīsubu

8 _____ _____ _____ dunasīr

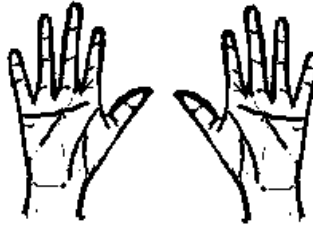
9 _____ _____ _____ dunamīn

Yara gɪ mani nɛ mwac

10



Yarna gun isɛw sɪr:



Ɔsɪrandɪ nɛ dine ina i mwac me āsɪnandɪ mwac mwac. Nimɪro ɪnda i mwac (0, 1, 2, 3, 4, 5, 6, 7, 8, 9). Mana gɪ dɛ āsɪnang gɪrne mwac da, dɛ dáy daa: Ya mɛ yarna habde nɛ gɪ dáy gɪ daa mwac. Habde nɛ i mɪn mɪn da, i mani nɛ mɪndagɪ jaga jaga me, habde nɛ bor mana mɪn da, i mani nɛ dayar mwac.



1 mwac me 0 mɪn=10



1 mwac mɪn me mɪn me àl=11










1 mwac me 5 mɪn mɪn=15





























2 mwac-mwac me 2 mɪn mɪn=22

	mwac-mwac	M̄in-m̄in
10 =	1	0
11 =	1	1
15 =	1	5
22 =	2	2

Āsa ḡi ta di da, janḡinand̄i dii subu subu:

10	_____	_____	_____		
11	_____	_____	_____		
12	_____	_____	_____		
13	_____	_____	_____		
14	_____	_____	_____		
15	_____	_____	_____		
16	_____	_____	_____		

17	_____	_____	_____		
18	_____	_____	_____		
19	_____	_____	_____		
20	_____	_____	_____		
21	_____	_____	_____		
22	_____	_____	_____		
23	_____	_____	_____		
24	_____	_____	_____		
25	_____	_____	_____		
26	_____	_____	_____		
27	_____	_____	_____		
28	_____	_____	_____		
29	_____	_____	_____		

30



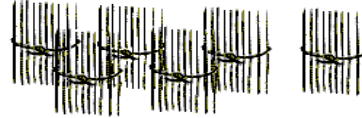
40



50



60



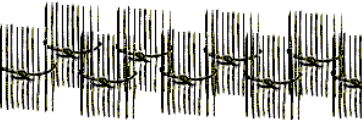
70



80



90



Tablo dīnə āsa gī so 0 ha 99:

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

Giyə gaba àla 1:

- Āsinandi daa so 20 ha 30
- Āsinandi daa so 35 ha 45
- Āsinandi daa so 52 ha 64
- Āsinandi daa so 70 ha 80
- Āsinandi daa so 88 ha 100

Giyə gaba àla 2: Jangınandı āsa gı i ta di:

29 _____ 60 _____

42 _____ 14 _____

38 _____ 17 _____

53 _____ 76 _____

85 _____ 91 _____

68 _____ 99 _____

24 _____ 57 _____

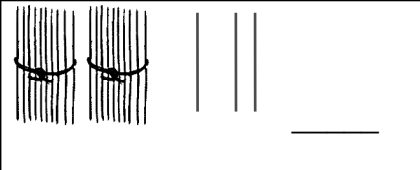

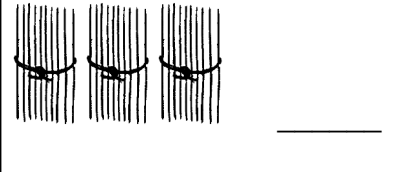
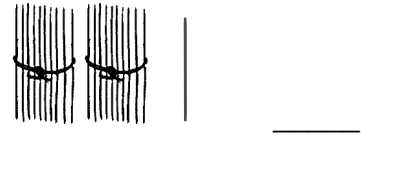
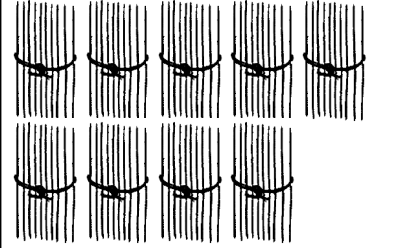
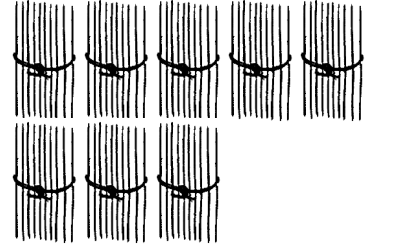
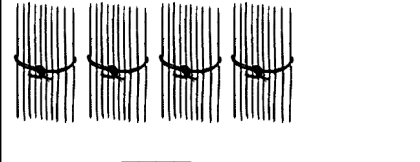
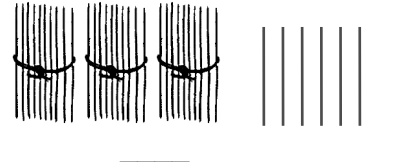
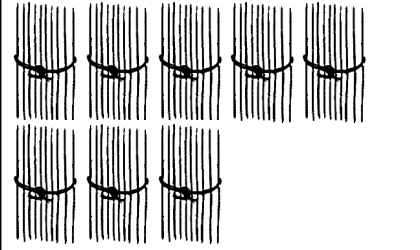
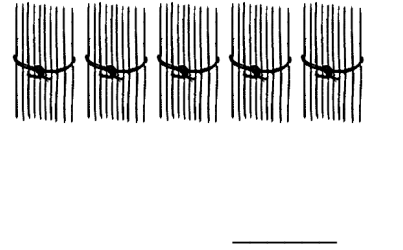
Giyə gaba àla 3: Jangınandı mana gı gubdıri nə i korgın
ta di lə āsa gı ilə ka bədə sın di:

20 21 23 24 25 27 28

46 48 49 50 53

79 82 84

Giyə gaba àla 4: Janginandi habde ìndi ilə ciri dwaṛi læ bá bá mo. Habde nə mar daa da, i mwac mwac.

Giyə gaba àla 5 : Yarnandı mani dúndirəği me āsınandı nım :

12 + 6 = 18

21 + 4 = _____

22 + 6 = _____

20 + 20 = _____

Giyə gaba àla:

Āsınandı:

12 + 7 =

32 + 11 =

27 + 20 =

24 + 3 =

20 + 15 =

42 + 6 =

74 + 13 =

16 + 20 =

84 + 10 =

Giyə gaba àla 7: Āsɨnandɨ daa chɨ dodə:

$$\begin{array}{r} 23 \\ + 4 \\ \hline \end{array} \quad \begin{array}{r} 45 \\ + 4 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ + 21 \\ \hline \end{array} \quad \begin{array}{r} 57 \\ + 22 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ + 41 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ + 22 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ + 32 \\ \hline \end{array} \quad \begin{array}{r} 73 \\ + 24 \\ \hline \end{array} \quad \begin{array}{r} 47 \\ + 10 \\ \hline \end{array} \quad \begin{array}{r} 23 \\ + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 12 \\ + 23 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ + 30 \\ + 41 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ + 4 \\ + 50 \\ \hline \end{array} \quad \begin{array}{r} 25 \\ + 32 \\ + 32 \\ \hline \end{array} \quad \begin{array}{r} 61 \\ + 18 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + 23 \\ + 23 \\ + 20 \\ \hline \end{array} \quad \begin{array}{r} 24 \\ + 31 \\ + 13 \\ + 10 \\ \hline \end{array} \quad \begin{array}{r} 68 \\ + 10 \\ + 10 \\ + 11 \\ \hline \end{array} \quad \begin{array}{r} 44 \\ + 3 \\ + 1 \\ + 40 \\ \hline \end{array} \quad \begin{array}{r} 52 \\ + 20 \\ + 6 \\ + 11 \\ \hline \end{array}$$

Biyə g̃i bam: « - » (moins)

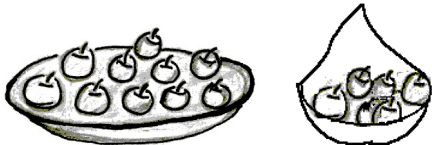
Mani nə jər ka: - i biyə g̃i bam. Mana g̃i g̃i biynə mani bam da, g̃i àl i āsa gaba biyə bam.

G̃i àl āsa gaba biyə bam da, i yande: $10 - 6 = 4$

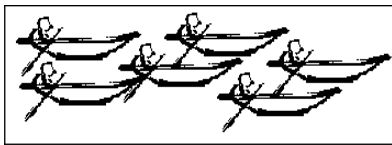
$$\begin{array}{r} 10 \\ - 6 \\ \hline = 4 \end{array}$$

Àlnand̃i 1:

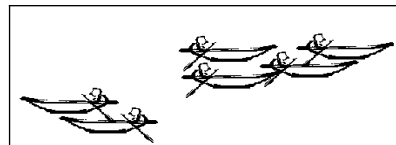
G̃i bo habda yàa duwa 10 dása d̃war̃i lə. Dwe m̃in lay kubi bam hurə daa barge duwa lə. Wor caga da 4 dása d̃war̃i ilə.


$$10 - 6 = 4$$

Àlnand̃i 2:



Nare 6 ha saba lə g̃i b̃irwa.



Bam da, 2 cwara hára ulay dayyə. İ̃r̃i nə 4 ha le saba lə s̃iṅ.

$$6 - 2 = 4$$

Giyə gaba àla 1: Āsinandi:

$$7 - 5 = \underline{\quad}$$

$$10 - 3 = \underline{\quad}$$

$$15 - 2 = \underline{\quad}$$

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

$$20 - 10 = \underline{\quad}$$

$$48 - 4 = \underline{\quad}$$

$$17 - 4 = \underline{\quad}$$

$$35 - 10 = \underline{\quad}$$

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

$$36 - 10 = \underline{\quad}$$

$$89 - 9 = \underline{\quad}$$

$$66 - 4 = \underline{\quad}$$

$$33 - 3 = \underline{\quad}$$

$$29 - 5 = \underline{\quad}$$

$$24 - 12 = \underline{\quad}$$

Giyə gaba àla 2: Āsinandi daa chí dodə:

$$\begin{array}{r} 35 \\ - \underline{4} \end{array}$$

$$\begin{array}{r} 26 \\ - \underline{5} \end{array}$$

$$\begin{array}{r} 49 \\ - \underline{7} \end{array}$$

$$\begin{array}{r} 78 \\ - \underline{15} \end{array}$$

$$\begin{array}{r} 54 \\ - \underline{23} \end{array}$$

$$\begin{array}{r} 67 \\ - \underline{43} \end{array}$$

$$\begin{array}{r} 93 \\ - \underline{63} \end{array}$$

$$\begin{array}{r} 87 \\ - \underline{46} \end{array}$$

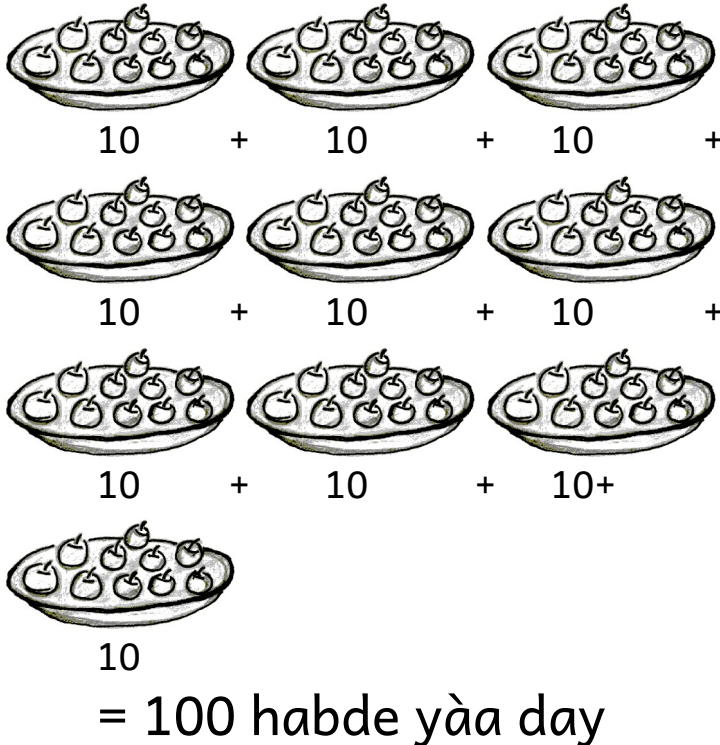
$$\begin{array}{r} 38 \\ - \underline{25} \end{array}$$

Āsa gī aru aru

Āsinandi daa pad so 88 ha 99.

Mana gī 99, habde nə magda 9 me nə mīn-mīn 9.

Ūrndī i magda habde magda gī gechide gī də 'wogiw ba i aru aru:



Tablo:

aru	mwac	mīn
1	0	0

Giyə gaba àla 1: Āsinandī āsa gī ta di:

aru	mwac	mīn
	9	9
1	0	0
1	0	1
1	0	4
1	1	0
1	1	1
1	2	0
1	2	3
1	3	4
1	4	7
1	6	4

aru	mwac	mīn
1	7	0
1	9	5
1	9	9
2	0	0
2	0	6
2	1	0
3	0	2
3	3	7
4	5	0
6	9	8
9	1	6

Giyə gaba àla 2: Dayarna aj+na ciri daa mana gi āsa
mar aru aru dīwə:

301		31
99	528	275
455	45	62
	768	184

Giyə gaba àla 3: Chínəndi āsa gi i ta di daa tablowə:

231	534	103	448	820
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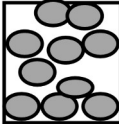
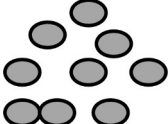
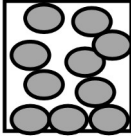
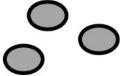




Aru	mwac	Mìn mìn
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.

'Yàgì læ diiyè me ɓiɓi gaba chéé tulɓnyè

Mani nè àlal wála gɓi wála:

Hawa ɗaɓi magɓilale woni bangaso 10. Bangaso ɗira i 19. Tandi ɗesi magɓila gɓi mɓn biw daa, ɓiɓi gɓi mɓn da, 'won daa bədè. Wor bam bangaso mɓn.

Idi 'yàdi bangaso læ ɗang 13. Caga da, magɓilale ɗira 'wombi daa subu me, bangaso wordi dodè sir me ca.

<p>(1)</p> <p>1 9</p> <p>+ 1 3</p> <hr style="width: 20%; margin: 0 auto;"/> <p>3 2</p>	  <p>mwac 1 me mɓn-mɓn 9</p>
	  <p>mwac 1 me mɓn mɓn 3</p>
	    <p>mwac mwac 3 me mɓn mɓn 2</p>

Gɓi āsina āsa gɓi so daa ha dodè. Mana gɓi mani nè i mɓn mɓn di ɗwayna 9 bam da, gɓi jangɓi āsa gɓi mar mwac di mana gɓi jàw gɓi mar mwac ɗiwè. Gɓi 'wogɓi āsa gɓi ɓani ta i mani nè gɓi biygɓi chigɓi tulɓnyè. Gɓi āsiw nè mar mwac ɗiɗɗegɓi læ.

Mani nə àla 1: Àlnandi kal āsa gı dodə ta di ina ladi le:

$$\begin{array}{r} (1) \\ 46 \\ + 15 \\ \hline 6. \end{array}$$

$$\begin{array}{r} (1) \\ 45 \\ + 37 \\ \hline . 2 \end{array}$$

$$\begin{array}{r} (1) \\ 62 \\ + 28 \\ \hline . 0 \end{array}$$

Mani nə àla 2: Āsinandi:

$$\begin{array}{r} 58 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ + 36 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ + 27 \\ \hline \end{array}$$

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

$$\begin{array}{r} 56 \\ + 77 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ + 65 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ + 37 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ + 86 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ + 59 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ + 48 \\ \hline \end{array}$$

Āsa lə diiyə gɪnə āsa gɪ dɔy 99 bam da, wun ya jaw de. Mana gɪ habde nə magdar mwac mwac di dwayna 9 bam da, gɪ jangɪ nə gɪ biygɪ chígɪ tulɪnyə di mana gɪ nə aru aru dɪdɛgɪ lə dɛŋ.

Giyə gaba àla 3: Āsinandi gɪ āsa gɪ mar aru aru:

(1)

$$\begin{array}{r} 126 \\ + 237 \\ \hline 363 \end{array}$$
$$\begin{array}{r} 261 \\ + 165 \\ \hline \end{array}$$
$$\begin{array}{r} 89 \\ + 304 \\ \hline \end{array}$$

$$\begin{array}{r} 208 \\ + 405 \\ \hline \end{array}$$

$$\begin{array}{r} 158 \\ + 174 \\ \hline \end{array}$$

$$\begin{array}{r} 670 \\ + 328 \\ \hline \end{array}$$

$$\begin{array}{r} 555 \\ + 299 \\ \hline \end{array}$$

$$\begin{array}{r} 392 \\ + 408 \\ \hline \end{array}$$

$$\begin{array}{r} 488 \\ + 418 \\ \hline \end{array}$$

$$\begin{array}{r} 804 \\ + 109 \\ \hline \end{array}$$

$$\begin{array}{r} 540 \\ + 280 \\ \hline \end{array}$$

$$\begin{array}{r} 397 \\ + 397 \\ \hline \end{array}$$

$$\begin{array}{r} 256 \\ + 89 \\ \hline \end{array}$$

$$\begin{array}{r} 495 \\ + 168 \\ \hline \end{array}$$

$$\begin{array}{r} 674 \\ + 91 \\ \hline \end{array}$$

Ɗarɓinandi gwale gi yab:

1. Ladni kilə mǎy sug gi Ɗiməgi lə koro 179. Tandi kilə koro 105 dang sug gi Koblagi lə. Tandi kilə pad da, i koro indi mo?

2. Made ùr ponde 48 dara gwaba gi kulu biw, ùr ponde 34 dara gwaba gi tabil me, ponde 28 dara gwaba gi ches me ca. Ùriw pad da, i ponde indi mo ?

3. Ali me Jǎ me Gamagi piygi gun min min diringəl 250. Dayargi daa pad, i diringəl indi mo?

4. Gwale gaba piyə baya:

Dwana i gi kura min me dogdə min me giray gi hale min me duroje nə namde sir me ca. Dang da, anji i gi badu min di digiladi min sawar bam lə me ca. Kirə duwa lə da, mwagne gidiragi ilə indi mo ?

Magda gî dubu dubu

a) Dubu: 1000



$$100 \text{ kg} + 100 \text{ kg} + 100 \text{ kg} + 100 \text{ kg} + 100 \text{ kg} +$$



$$100 \text{ kg} + 100 \text{ kg} + 100 \text{ kg} + 100 \text{ kg} + 100 \text{ kg} = 1000 \text{ kg}$$

Suwal gî mǎy 10. Mîñ da, noo duwa i kilo aru aru,
Dayar daa pad da i kilo 1000 gî mǎy.

$$10 \text{ dii } 100 \text{ kg} = 1000 \text{ kg}$$

Giyə gaba àla 1: Gubdîri nǎ wor tablowə ta di
jangî nandî lǎ:

990	991	992	993	994	995	996	997	998	999
1000	1001	1002	1003	1004	1005	1006	1007	1008	1009
1010									
1020									
1030									
1040									

b) 1000, 2000, 3000

Āsa gī 2548 me 1726 nem cagdara dodə ya ta de:

$$\begin{array}{r}
 2000 \\
 + 500 \\
 + 40 \\
 + \underline{8} \\
 \hline
 2548
 \end{array}
 \qquad
 \begin{array}{r}
 1000 \\
 + 700 \\
 + 20 \\
 + \underline{6} \\
 \hline
 1726
 \end{array}$$

	Dubu	Aru	mwac	Mīn
1000	1	0	0	0
2548	2	5	4	8
1726	1	7	2	6

Giyə gaba àla 2: Hurnandī āsa gī i ta di mana gī tablowə : 1033, 3564, 6208, 2190 et 5576.

Dubu	aru	mwac	mīn
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

Giyə gaba àla 3: Janginandi mani tablo di ta di dware læ:

1070									
1080	1081								
1090									
	2001								

Giyə gaba àla 4: Āsa gi i ta di cagdinandi gandiw dodə dubu dubu me aru aru me mwac mwac me mɪn mɪn me:

$$124 = 100 + 20 + 4$$

$$3691 = 3000 + 600 + 90 + 1$$

$$1273 = \dots + \dots + \dots + \dots$$

$$657 = \dots + \dots + \dots$$

$$15 = \dots + \dots$$

$$4705 = \dots + \dots + \dots + \dots$$

$$2528 = \dots + \dots + \dots + \dots$$

$$5019 = \dots + \dots + \dots + \dots$$

$$8006 = \dots + \dots + \dots + \dots$$

$$477 = \dots + \dots + \dots$$

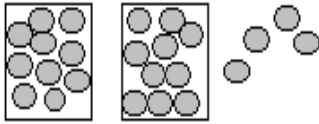
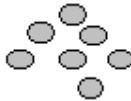
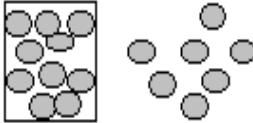
$$7001 = \dots + \dots + \dots + \dots$$

Biyə gı̄ bam me 'woo chı̄ tulı̄nyə me

Hawa kıl magılale gı̄ bangaso dwalı̄nyə mwac mwac bam sug læ. Tandi kıl bangaso mın mın bam me ca.

Magılale da, i mani nə mwac mwac, me bangaso da, i nə mın mın me ca:

Wordı̄ gaba kılə bam i magılale 2 me, bangaso wodi me ca. Aba kılə gı̄ra ba ùr i bangaso 7. Urdı̄, Hawa tı̄nı̄ gı̄ magıla mın bı̄w bam dara 'yaw. Mana gı̄ tandi 'yàw bam mwom da, wordı̄ magıla mın me bangaso 7 gaba kılə bam mın mın.

	(+10) 2 4
	(-1) - 7
	1 7

Giyə gaba àla 1: Āsınandı̄ ya ba də àlang nım pii de:

(+10) 4 4 (-1) <u>- 1 9</u> 2 5	(+10) 4 5 (-1) <u>- 1 8</u> 7	(+10) 6 2 (-1) <u>- 2 6</u> . .
---	---	---

Giyə gaba àla 2: Āsınandı:

$$\begin{array}{r} 50 \\ - 25 \\ \hline 25 \end{array} \quad \begin{array}{r} 37 \\ - 19 \\ \hline \end{array} \quad \begin{array}{r} 47 \\ - 28 \\ \hline \end{array} \quad \begin{array}{r} 55 \\ - 18 \\ \hline \end{array} \quad \begin{array}{r} 54 \\ - 27 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 52 \\ - 15 \\ \hline \end{array} \quad \begin{array}{r} 76 \\ - 48 \\ \hline \end{array} \quad \begin{array}{r} 84 \\ - 17 \\ \hline \end{array} \quad \begin{array}{r} 68 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 145 \\ - 68 \\ \hline \end{array} \quad \begin{array}{r} 212 \\ - 145 \\ \hline \end{array} \quad \begin{array}{r} 246 \\ - 157 \\ \hline \end{array} \quad \begin{array}{r} 630 \\ - 162 \\ \hline \end{array} \quad \begin{array}{r} 426 \\ - 177 \\ \hline \end{array}$$

$$\begin{array}{r} 235 \\ - 54 \\ \hline \end{array} \quad \begin{array}{r} 670 \\ - 189 \\ \hline \end{array} \quad \begin{array}{r} 144 \\ - 48 \\ \hline \end{array} \quad \begin{array}{r} 608 \\ - 374 \\ \hline \end{array} \quad \begin{array}{r} 517 \\ - 98 \\ \hline \end{array}$$

$$\begin{array}{r} 262 \\ - 75 \\ \hline \end{array} \quad \begin{array}{r} 300 \\ - 143 \\ \hline \end{array} \quad \begin{array}{r} 613 \\ - 91 \\ \hline \end{array} \quad \begin{array}{r} 216 \\ - 169 \\ \hline \end{array} \quad \begin{array}{r} 421 \\ - 336 \\ \hline \end{array}$$

Gwale:

1. Gurpiman mɪn i gɪ suwal gɪ gɪna 45. Nare kɪl suwal 16 bam. Worgɪ suwal ɪndi mo ?

2. Deme mɪn dɑrɪ mani nɛ kunɛnyɛ. Tandi kɪl neɛe 500. Tandi lay 384 àl gɪ giyɛ bam. Wordɪ neɛe ɪndi mo ?

3. Adum so Jamena ba ha Mundu. So Jamena ha Mundu da, i kilometɪr 494. Anɟi wà kilometɪr 258 mwom da, kabɲo duwa mendɛr bam. Worɪw dɪrɛwɛ kilometɪr ɪndi dara dɪmɛ Mundu mo ?

4. Nare nɛ cɪriyɛ dáy sɪdɛgɪ daa, cendi ùr ba gɪ biy sekɪrɛter mɪn. Woni ùrɛ sekɪrɛter di i nare subu. Woni àla wotɪ dɪ lade di i nare 187. Gɪ piy nare duwa 49, gaba sɪr nare duwa 56. Gaba subu da, worɪw duwa nare ɪndi mo?

5. Kulu gɪ lekol dalawɛ mɪn da, dine i 53. Aliya 'yaɲa duwa lɛ da, dine 16 nem hára pii bɛdɛ me, cendi ha kulɛ gɪ dɛngɛ me. Nɛ kulɛ gɪ piyɛ 8 nem hára pii bɛdɛ me cwara hára lɛ kulɛ gɪ ta lɛ. Kulɛ gɪ ta di dalawɛ da, dine ha dayara ɪndi aliya gɪ dɛngɛ mo?

6. Dwani bage duwa i 652. Anɟi 'woji nɛ 385 dɪm. Worɪw 'waja dɛng ɪndi na mo?

Miltipilikaso: « × » (fois)

Mani nē ta di « × » i 'yàa gĩ dii gĩrē.

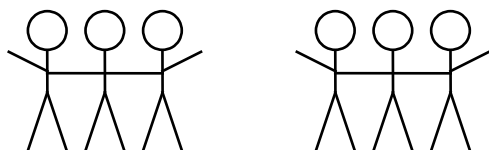
« 2 × » i āsa gĩ pii di dii sīr.

« 6 × » ta da, i āsa gĩ pii di dii kubi.

Miltipilikaso da, gĩ àldi i ya ta de :

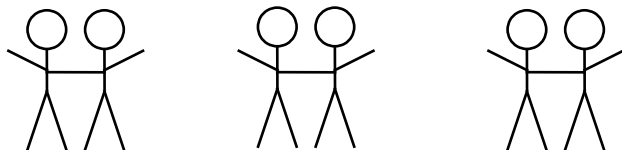
$$\begin{array}{r} 8 \\ 8 \times 2 = 16 \text{ labaa daa ha dodē:} \\ \times 2 \\ \hline 16 \end{array}$$

àl ya:



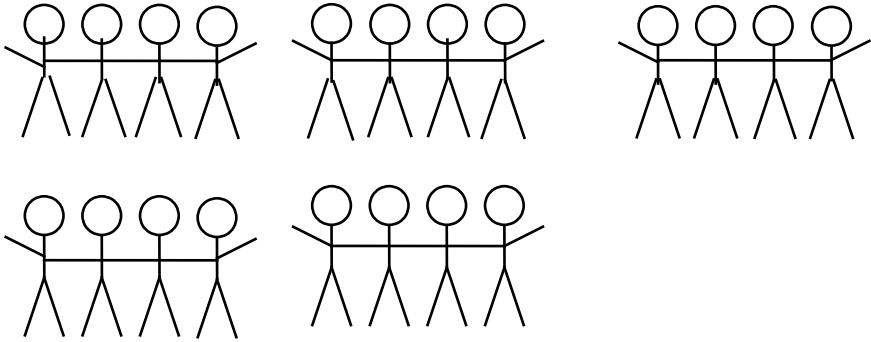
$$3 + 3 = 2 \times 3 = 6$$

$$2 \times 3 = 6$$



$$2 + 2 + 2 = 3 \times 2 = 6$$

$$3 \times 2 = 6$$



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

$$5 \times 4 = 20$$

Dii s̄r, dii subu me, dii wod̄ me

Dii s̄r i mana ḡ ḡ àl mani di $\times 2$. Mani 5 dii s̄r da i 10.
 $2 \times 5 = 10$

Dii subu da, i mana ḡ ḡ àl mani di $\times 3$. Mani 5 dii subu i 15.

$$3 \times 5 = 15$$

Dii wod̄ i mana ḡ ḡ àl mani di $\times 4$. Mani 5 dii wod̄ da, i 20.

$$4 \times 5 = 20$$

Giyə gaba àla: Ali wom gato m̄n. Bam wom duwa dii s̄r, Nime wom duwa dii subu me, Made wom duwa dii wod̄:



Ali wom
gato 1.



Bam wom
gato 2.



Nime wom
gato 3.



Made wom
gato 4.

Giyə gaba àla:

1. İndi, nə 'yo koro 4. İjim, mə 'yo dıma dii sir. Mə i nım İndi mo?

2. Waybədə dındadı wodı. Rachel dıra ya nənə Waybədə de dii subu. Tandı dındadı i İndi na mo?

3. Samedı i gı gursı 500. anji ùr ba 'yo lə dıng dii wodı. Anji ùr ba 'yo gursı pad İndi mo?

4. Belbı i gı ləbje nə namde subu. Adum duwa i ya nənə Belbı de dii subu. Adum ləbje nə namde duwa da, i İndi mo?

Āsinandı:

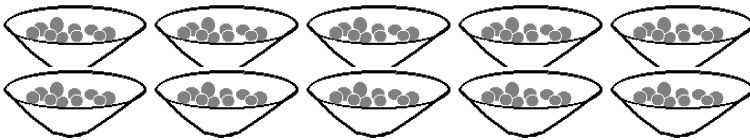
Miltiplikaso:

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

Giyə gaba àla:

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

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



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

$$10 \times 10 = 100$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

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

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

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

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

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

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

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

$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 9 \\ \hline \end{array}$$

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

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

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

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

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

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

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

Gwale:

1. M̄ji k̄l̄ə budong ḡi n̄āy 4 sug l̄ə. Budong m̄in da, ȳi lit̄ir 5. Tandi i ḡi lit̄ir ḡi n̄āy pad ìndi mo?
2. Chamre kubi da, gun m̄in ùr lit̄ir s̄ir s̄ir. Dayar pad da, ì lit̄ir ìndi na mo?

Ɔsara gɛ dodɛ: « : » (Ɔsɛr dodɛ)

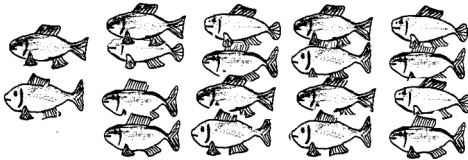
Mani nɛ ta di « : » i Ɔsara gɛ dodɛ.

Ɔsara gɛ dodɛ da, gɛ àl i ya ta de:

$$6 : 2 = 3 \quad \text{labaa} \quad \left| \begin{array}{r} 6 \quad 2 \\ \hline 3 \end{array} \right.$$

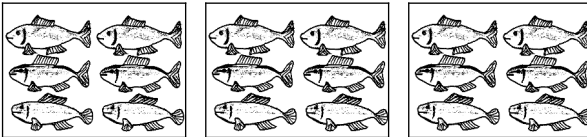
Àl ya:

1. Woni ùrɛ subu yibɛ gòche nɛ ta di pad. Cendi Ɔsɛgɛ dodɛ korgɛn subu:

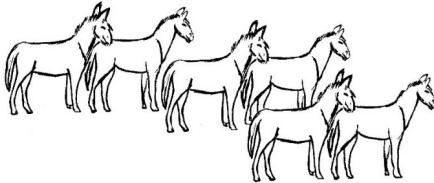


$$18 : 3 = 6$$

Gun mɛn da, 'yo gòche kubi kubi:



2. Gɛ Ɔsɛnɛ leme nɛ dayar ta di dodɛ sɛr da, ha 'ya i leme ɛndi ɛndi mo ?



$$\text{Cwaa lɛ diiyɛ: } 6 : 2 = 3$$

Mani tuləgı, isər dodə subu me dodə wodı me ca

Woni yiga sır isı yiga dodə korgıñ sır. Wi kaw 'yo tulıñ tulıñ.

Tulıñ da, gı jangı i: $1/2$



Mani tuləgı da, gı way ba tulıñ. Nimi 'won ber daa bədə da, gı way ba i tulıñ. Ber tuldı da, gı way ba i tulıñ.

Woni yiga subu isı yiga day dodə korgıñ subu. Gun mın da, 'yo isı gı dodə subu di mın mın.

Dodə subu da, gı jangı i ya ta de: $1/3$



Woni yiga wodı isı yiga dodə korgıñ wodı. Gun mın da, 'yo isə gı dodə wodı ta di mın mın.

Dodə wodı da, gı jangıw i ya ta de: $1/4$



Giyə gaba əla 1:

Deme isıgı dındadı wodı gato mın dodə. Dwe mın da 'yo

Koro dı mǎy sır da, i koro tuldı.

6 isır dodə subu i

8 isır dodə wodı da i, 8 isır dodə sır da i

Giyə gaba àla 2: Ās+nandı:

(Də 'wacḡang i dara Miltip+likaso !)

$28 : 7 = \underline{\quad}$ $81 : 9 = \underline{\quad}$ $56 : 7 = \underline{\quad}$

$36 : 6 = \underline{\quad}$ $64 : 8 = \underline{\quad}$ $42 : 6 = \underline{\quad}$

$100 : 10 = \underline{\quad}$ $72 : 6 = \underline{\quad}$ $55 : 5 = \underline{\quad}$

$32 : 4 = \underline{\quad}$ $40 : 5 = \underline{\quad}$ $24 : 3 = \underline{\quad}$

$80 : 10 = \underline{\quad}$ $72 : 8 = \underline{\quad}$ $32 : 8 = \underline{\quad}$

$18 : 9 = \underline{\quad}$ $16 : 2 = \underline{\quad}$ $60 : 6 = \underline{\quad}$

$20 : 4 = \underline{\quad}$ $27 : 3 = \underline{\quad}$ $49 : 7 = \underline{\quad}$

Gwale:

1. Dine idəgı̄ ı̄sı̄gı̄ dine kubi bangaso 24 dodə korgı̄ḡ ca ca. Dwe mın da, 'yo bangaso ı̄ndi mo ?
2. Amsı̄ dı̄angrı̄ tabure 4 gı̄ ponde 32. Tabure mın da, u ponde ı̄ndi mo ?

Ɔsara gɛnɛ wála duwa

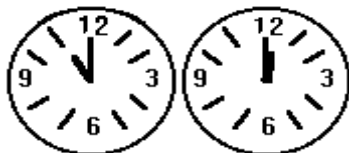
Wála mɛn dalawɛ da, dawa dɛndadɛ 24. Ya montɛr dwarzɛ lɛ da, dawa dɛndadɛ i 12 mɛra, libara gɛ dwe gɛ montɛr dwarzɛ lɛ dɛ cɛm ha nimɛro gɛ dɛngɛ àl i dawa dwe dɛra mɛn, anji gugɛr daa dii sɛr wála mɛn dalawɛ.



i dawa 1 , i dawa 2, i dawa 3, i dawa 4, i dawa 5,



i dawa 6 , i dawa 7, i dawa 8, i dawa 9, i dawa 10,



i dawa 11, i dawa 12 gɛ dawa labaa changa.

Ler mɛn dwarzɛ lɛ da, i minit 60. Libare gɛ jore gaba minit gugɛr daa dii mɛn da, i ler mɛn.

Libara gɛ dwe hɛnɛ labaa mani nɛ àl wulɛn wulɛn ta di, i segon. Anji gugɛr daa dii mɛn da, i minit mɛn, dara minit mɛn da, i segon 60.

Minit 15 da, i ler tuldɛ wodɛ. Minit 30 da, i ler tuldɛ mɛn.

Àl ya:



I dawa
dɛndadɛ 8 gɛ
minit 15



I dawa
dɛndadɛ 3 gɛ
tulɛn



Dawa
dɛndadɛ 11
da wor bam
minit 15



I dawa
dɛndadɛ 4 gɛ
minit 10



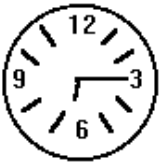
Dawa
dɛndadɛ 5
da, wor bam
minit 5



Dawa dɛndadɛ
7 da, wor
bam minit 20

Giyɛ gaba àla:

1. Montɛr dɛ ta di dwaɛɛ lɛ da, i dawa na mo ?



2. Dawa 2 gɛ minit 30 da, dayar i minit ɛndi mo? Dawa 4 gɛ minit 10 da, i ɛndi mo? Me dawa 6 gɛ minit 5 da, i ɛndi mo?

3. Minit 300 da, i dawa dɛndadɛ ɛndi mo? Minit 180 da, i dawa dɛndadɛ ɛndi mo?

4. Minit sɛr da, i segon ɛndi mo?

Yara gi dawa

Də 'wacɲang dara wála mɪn dalawə i dawa dɪndadɪ 24.

Minit 60 dawa dwe dɪra mɪn dalawə.

Segon 60 minit mɪn dwaɾɪ lə.

Dɪmas mɪn dwaɾɪ lə i wála ɪndi mo?

Lendi, mardi, mekrədi, jodi, bandɪradi, samadi, dɪmas.

Giyə gaba àla:

- Dawa dɪndadɪ 72 da, i wála ɪndi mo?
Dɪmas subu dwaɾɪ lə da, i wála ɪndi mo?
Dawa dwe dɪra mɪn dalawə da, i segon ɪndi mo?
Wála 56 da, i dɪmas ɪndi mo?

Aliya mɪn dalawə i wála 365, labaa i dɪmas 52 gi tulɪŋ.

Aliya mɪn da, ɪsər i dodə duru 12.

Duru gi dɪsa i wála 31.

Duru gi bwage da, i wála 28 aliya subu, me wála 29 aliya 4 (aliya gaba wála 366).

Duru gi māyyə da, i wála 31.

Curi i wála 30.

Habiŋa i wála 31.

Bɪra nəng nəng i wála 30.

Amlamta i wála 31.

Basɪma i wála 31.

Cere i wála 30.

Dyawa i wála 31.

Sɪmra i wála 30.

Mōrɪ i wála 31.

Àla gi miltipilikaso gi biyè gaba chéè tulinyè

Mə so pii da, mə àl miltipilikaso i gi mani nə mìn mìn do me nə mwac mwac do me nə aru aru sɪŋ. 'Ywaa duwa di ina i nimɪro sɪr da, mə jangɪ mani nə mìn mìn kwandagɪ nə mìn mìn gɪndəgɪ lə, me mani nem mwac da, mə jangɪgɪ daa ya ba mə biyɪgɪ chɪgɪ le de tulɪŋ dɪ worɪ di.

Àl ya:

Aru	mwac	Mìn
(+1)	(+3)	5
×	2	6
1	5	0

$$\begin{array}{r}
 (+3) \\
 2\ 5 \\
 \times \quad 6 \\
 \hline
 1\ 5\ 0
 \end{array}$$

Giyè gaba àla: Āsɪnandɪ:

$$\begin{array}{r}
 (+1) \quad (+1) \\
 3\ 7 \quad 5\ 6 \quad 8\ 9 \quad 4\ 8 \quad 5\ 4 \quad 6\ 5 \\
 \times \ 2 \quad \times \ 3 \quad \times \ 4 \quad \times \ 7 \quad \times \ 5 \quad \times \ 3 \\
 \hline
 7\ 4 \quad 1\ 6\ 8
 \end{array}$$

$$\begin{array}{r}
 8\ 7 \quad 9\ 8 \quad 5\ 2 \quad 6\ 4 \quad 3\ 7 \quad 4\ 1 \\
 \times \ 6 \quad \times \ 7 \quad \times \ 3 \quad \times \ 5 \quad \times \ 4 \quad \times \ 8
 \end{array}$$

$$\begin{array}{r}
 2\ 3\ 0 \quad 1\ 2\ 7 \quad 3\ 0\ 2 \quad 2\ 3\ 4 \quad 1\ 5\ 9 \quad 2\ 7\ 3 \\
 \times \ 4 \quad \times \ 4 \quad \times \ 3 \quad \times \ 2 \quad \times \ 5 \quad \times \ 3
 \end{array}$$

Biynəndi chfnədi tulinyə:

Mana gi mə wor àla miltiplikaso gi nimiro gi gechide sɨŋ da, 'wocŋ dara:

1. Mə àlna miltiplikaso di dii mwac da, mə u nimiro gi 0 chf mana gi nimiro gi mə àl miltiplikaso lə ta di tuliwə:

$$26 \times 10 = 260$$

$$78 \times 10 = 780$$

2. Mə àlna miltiplikaso di dii aru da, mə lay nimiro gi 0 sɨr chigf mana gi nimiro gi mə àl miltiplikaso lə ta di tuliwə:

$$26 \times 100 = 2600$$

$$78 \times 100 = 7800$$

3. Mə àlna miltiplikaso di dii dubu da, mə lay nimiro gi 0 subu chigdɨ mana gi nimiro gi mə àl miltiplikaso lə ta di tuliwə:

$$26 \times 1000 = 26000$$

$$78 \times 1000 = 78000$$

4. Mə ùrnə àla miltiplikaso di wome ya 85×49 de da, àldɨ gidam sɨr.

Pii da, àl 85×9 , do me àl di 85×40 .

Àl ya:

Biyə gaba chéə tulɨnyə gɨ dii 2:

Biyə gaba chéə tulɨnyə gɨ dii 1 :

85×9 'Ywaa duwa i:

85×40 'Ywaa duwa i:

'Bama gɨ 'ywaa duwa gɨ sir ta di daa:

Dubu	aru	mwa c	mɨn
	(3)	(2)	
	(-7)	(4)	
		8	5
×		4	9
	7	6	5
(+1)	4	0	0
+ 3			
4	1	6	5

(2)			(1)
(4)	(2)	(1)	(2)
85	56	42	37
× 49	× 14	× 18	× 23
-----	-----	-----	-----
(1)765	224	336	
+3400	+ 560	+ ... 0	+
-----	-----	-----	-----
4165	784		
=====	=====	=====	=====

$$\begin{array}{r} 89 \\ \times 20 \\ \hline \end{array}$$

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

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

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

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

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

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

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

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

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

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

$$\begin{array}{r} 1226 \\ \times 87 \\ \hline \end{array}$$

Ɔsɛ Ɔɔ dɔdɛ Ɔɔ sɔ dɔɔ hɔ dɔdɛ

Ɔsɛ Ɔɔ dɔdɛ Ɔɔ wɔmɛ dɔ, mɛ ɔɔ Ɔɔɔ dɔ dɔdɛ Ɔɔɔ lɛ mɛ sɔ nɔmɔɔ Ɔɔ Ɔɔhɔɔɔɔ Ɔɔɔ dɔ.

Àl yɔ:

Pam ɔ Ɔɔ sɔwɔl Ɔɔ mɔy 528 dɔɔ bɔwɔ mɔnɔ Ɔɔ Ɔɔɔ 4 lɛ. Ɔɔɔ mɔn dɔ, hɔ ɔyɔwɔ sɔwɔl ɔndɔ mɔ?

Àsɔnɔndɔ dɔɔ hɔ dɔdɛ:

$$\begin{array}{r|l} 528 & 4 \\ -4 & \\ \hline 12 & 132 \\ -12 & \\ \hline 08 & \\ -8 & \\ \hline 0 & \end{array}$$

Yɔndɛ dɔ: $528 : 4 = 132$

Ɔɔɔ Ɔɔɔ àlɔ 1:

$$\begin{array}{r|l} 96 & 3 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 145 & 5 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 680 & 8 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 375 & 6 \\ \hline & \end{array}$$

Giyə gaba àla 2:

İsə gı dodə pad da, 'yaña duwa bor mın pad bədə. Nə mın da, 'yeñ me mani wor ilə:

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

Giyə gaba àla 3:

$\begin{array}{r l} 325 & 20 \\ -20 & \\ \hline 125 & 16 \\ -120 & \\ \hline 5 & \end{array}$	$\begin{array}{r l} 90 & 12 \\ \hline & \end{array}$	$\begin{array}{r l} 145 & 11 \\ \hline & \end{array}$	$\begin{array}{r l} 420 & 15 \\ \hline & \end{array}$
---	--	---	---

$\begin{array}{r l} 436 & 15 \\ \hline & \end{array}$	$\begin{array}{r l} 512 & 20 \\ \hline & \end{array}$	$\begin{array}{r l} 550 & 25 \\ \hline & \end{array}$	$\begin{array}{r l} 282 & 18 \\ \hline & \end{array}$
---	---	---	---

Cwara gaba yara āsa gɛ̄ mani gɛ̄ jiga jiga wodɛ̄ ta di

Āsinandi mani nɛ̄ i ka di:

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{array}{r|l} 176 & 4 \\ \hline \end{array}$$

$$\begin{array}{r|l} 284 & 12 \\ \hline \end{array}$$

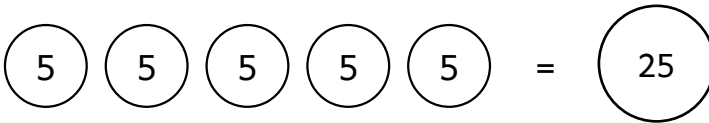
$$\begin{array}{r|l} 1428 & 16 \\ \hline \end{array}$$

$$\begin{array}{r|l} 4646 & 18 \\ \hline \end{array}$$

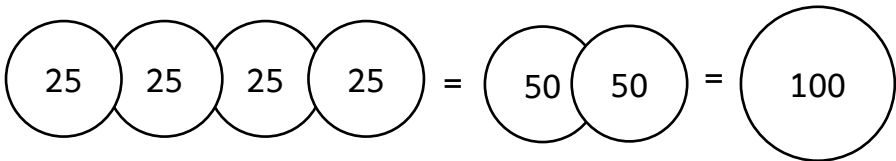
Gursi

Mana gɨ bii ɨnda lə da, gɨ āsɨ 1 da, bor i gɨ 5 FCFA.
Frang jii me dang frang jii me dang frang jii me.

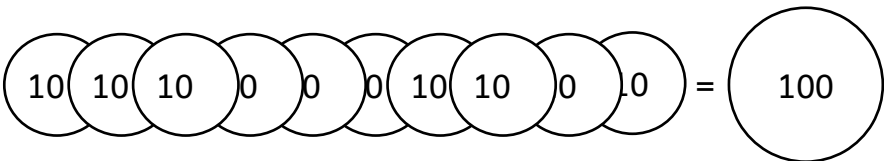
Dɨm da, ina i āsa gaba janga dodə lə da, gɨ āsɨ mɨn mɨn
ya ba gɨ jangɨ nɨm gursɨ dɨ chile labaa dɨ baje baje sɨdɨ
ta de.



$$5 + 5 + 5 + 5 + 5 = 25$$

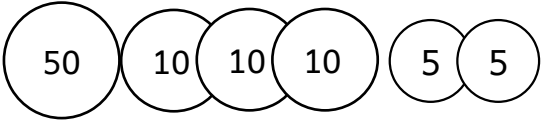


$$25 + 25 + 25 + 25 = 50 + 50 = 100$$



$$10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 = 100$$

Giyə gaba àla 1:

Nə i gı gursı 90 FCFA 

Nə myandına 40 FCFA bam da, wor ındi mo ?

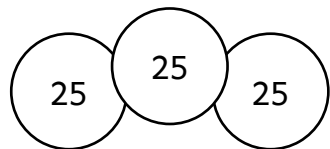
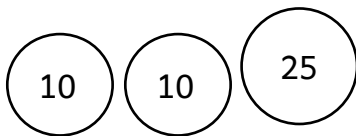
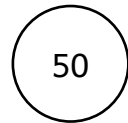
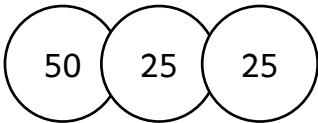
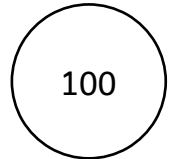
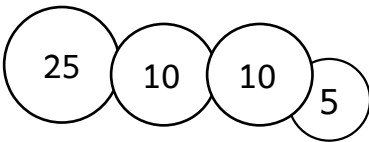
Nə myandına 25 FCFA bam da, wor ındi mo ?

Nə myandına 65 FCFA bam da, wor ındi mo ?

Giyə gaba àla 2:

Nə unə gursı 2500 FCFA me, ıjım mə unə 3850 FCFA me da, ca ında lə da, dı u ında i gursı ındi mo ?

Giyə gaba àla 3: Gursı dı bor gı kondıdı ca da, janandı mani ıyandarna daa daa:



Gursi di baje baje di bangki



Gursi aru



Gursi sak



Gursi aru wodi



Gursi sak jii



Gursi sak mwac

Baje 2 di nã gursi aru = baje 1 gi nã sak 1

Chile 20 dīnə gursī gīnīṅ sīr = baje 4 dīnə gursī aru =
baje 2 dīnə gursī sak = sak sīr.

Baje 10 dīnə sak mīn = baje 5 dīnə sak sīr =
baje 2 dīnə sak jii = baje 1 dīnə sak mwac.

Giyə gaba àla 1: Mana gī wor pəgīṅ da, janandī lə:

Baje 3 dīnə sak jii = baje ____ dīnə sak mīn

Baje ____ dīnə sak sīr = baje 1 dīnə sak mwac

Baje 1 dīnə sak sīr = baje ____ dīnə gursī aru

Baje 1 dīnə sak sīr = sile ____ dīnə gursī gīnīṅ sīr

Baje 1 dīnə sak mīn = sile ____ dīnə gursī mwac

Baje 20 dīnə gursī aru = baje ____ dīnə sak mwac

Baje 3 dīnə sak mwac = baje ____ dīnə sak mīn

Baje 4 dīnə sak sīr = baje ____ dīnə aru

Chile 1000 dīnə gursī gīnīṅ sīr = baje ____ dīnə sak jii

Baje 1 dīnə sak mīn = sile ____ dīnə gursī jii

Giyə gaba àla 2: Āsınandı:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Gwale:

1. Aba kunbā bage kīl dīmənje 3. Dīmən mīn da, gursi dīra i 6500 FCFA. Dīmənje subu da, anji 'yogī gī gursi īndi mo?
2. Idi tujar mīn kīl kes dī mongo 4. Kes mīn da, gursi dīra i 850 FCFA. Tandi co mongo dīra di kīldi bam. Kes mīn dīdā da, tandi 'yo nimi dīra 200 FCFA. Tandi 'yo gursi pad da, īndi mo ? Tandi co kes dīra di pad kīldi bam gī gursi īndi mo ?
3. Musa kīl marse duwa 4 bam 'yo gursi 10000 FCFA. Marsa mīn da, kili dīra i īndi mo ?
4. Mari 'yo gursi 10000 FCFA. Tandi ūr ba dī kīl barge. Mari kīl barge dīra subu gī gursi 5500 FCFA, kīldi durmādi rob gī dwe mīn gī 600 FCFA, kīlīw gorīndīdi besde mīn gī 2200 FCFA. Wordi gursi īndi mo ?
5. Aba tujar kīl kaye 5 bam. Kaye mīn da, i gī gursi 500 FCFA me anji kīl big subu bam me ca. Big mīn da, gursi duwa i 75 FCFA. Anji 'yo pad da, gursi īndi mo ?
6. Aba yiga mīn wāla gī swagē naa dayyā da, kīl māy bam naḡe. Anji kīl koro mīn bam gī gursi 200 FCFA. Iri, gīra yiga lā da, anji yār swagē duwa di yeḡe, anji ha kīlā swagē nā gīsā daa koro 18. Koro mīn anji kīl gī gursi 350 FCFA. Mana gī anji kal swagē naḡ bēdā cor bo gursi īndi bam mo?

7. Abe mɪn aw gər gɪnə gun duwa. Dawa dwe dɪra mɪn da, gɪ 'yogɪw gursɪ 150 FCFA. Ùrɪw i dawa dɪndadɪ 55 do me gər di ha 'yaŋa sɪŋ. Yande da, aba 'yàw giyè di ha 'ywigaw i gursɪ ìndi mo ?

Gursɪ dɪ jiga jiga

Gursɪ dɪ (FCFA) wom i mana gɪ cɪri dɪ gɪsɪgədə 6 ta di lè:
CAD - KAMERUN - RCA - GABON - GINE
EKWATORIYAL - KONGO

Gursɪ dɪ àl giyè : Nayra mana gɪ Nigeriya
Dinar mana gɪ Libi me Sudan me
Euro mana gɪ Präs me Alman me
Dollar (\$) mana gɪ USA

Gursɪ dɪ jiga jiga ta di kɪlanga dɪra cogdɪre wála gɪ wála, i dɪ Euro me cor bədè tandi. Euro mɪn da, i gursɪ 656 FCFA:

$$1 \text{ Euro} = 656 \text{ FCFA}$$

Giyè gaba àla:

Aba tujar mɪn kɪlè barge mana gɪ Präs. Metɪr mɪn da, anɟi kɪlèw i gɪ gursɪ 2 Euro. Anɟi gɪra cow kɪlèw bam ka. Metɪr mɪn da, 'yo nimi duwa lè 188 FCFA.

a) Metɪr mɪn da, i gursɪ dɪ FCFA ìndi mo?

b) Aba yiga mɪn kɪl barge gɪ ta di metɪr 8. Anɟi ha myanda gursɪ ìndi na mo?

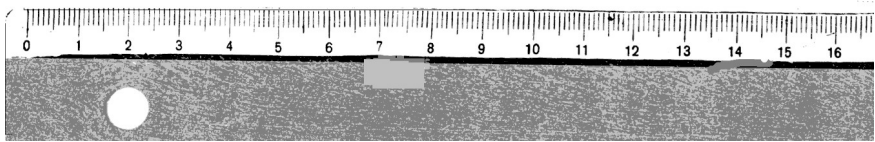
İrmə gî mani charni day

1) Charni:

Gî ırmədi i gî metir (m), gî santimetir (cm), gî kilometir (km), etc. Mani nə bağ woni ırmə mani charni day da, i metir (m).

2) Charni dine gî metir dıyiw bam:

Charni gî dine gî metir dıyiw bam da, i santimetir (cm) me, i milimetir (mm) me ca.



Mana gî regil sıwə, mə yər santimetir (0, 1, 2, 3) me milimetir (jagda gî dine bani bani 10 mana gî santimetir mın dalawə).

Metir (m) 1	= Santimetir (cm) 100	1 m = 100 cm
Santimetir (cm) 1	= Milimetir (mm) 10	1 m = 1000 mm

Giyə gaba àla:

İrminə kulu charni duwa me bılhani duwa me, ırminə yiga me, etc. gî metir.

İrminə tabıl charni dıra me bılhani dıra me, ırminə kaye me gî santimetir.

3) Charni gɛ doy metɪr bam:

Charni gɛ doy metɪr bam da, i kilometɪr.

$$\text{Kilometɪr 1 (km)} = 1000 \text{ m}$$

Kilometɪr (km)			Metɪr (m)
1	0	0	0
			1

Metɪr 1000 da, i kilometɪr 1.

Yande da, 5000 m = kilometɪr ?

$$2 \text{ km} = \text{ m ?}$$

Giyɛ gaba àla: Ìrmɪnɛ yiga charni duwa me bɪlnani duwa me ca, ciri bulɛ dɪra gɛ kondɪdɪ, nɔlɪŋ charni duwa gaba liwɛ ciri daa gɛ metɪr me gɛ kilometɪr me ca.

Gwale:

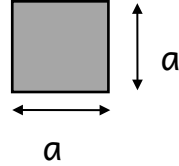
1. Jamena bulɛ day gɛ Waliya da, charni duwa i kilometɪr 10. Abe mɪn so Jamena da, ha dawa dɪndadɪ 2 do me dɪm Waliya sɪŋ. Dawa dwe dɪra mɪn da, anɟi ha kilometɪr ìndi mo ?
2. Adum wà gɛ belo kilometɪr 16 dawa dwe dɪra mɪn dalawɛ. Ùrnɛ dara ba hanɛ nuwɛ da, ùrɪw i wàa dɪban dɪbɛ gɛ dodɛ dawa dɪndadɪ sɪr gɛ tulɪŋ. Nuw di ciri duwa i kilometɪr ìndi mo?

Mani nə gı ırmıgı le (Les figures géométriques)

a) Mani nə gı 'wogıgı kare:

Gındəgı dı biyə:

Kare da, i mani nə gı ırmıgı le. Charni duwa me bıl nani duwa me da, bor ca. Dongi duwa gı wodı da, i tıba tıba.

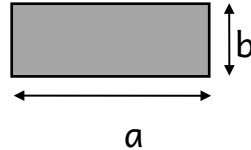


Āsa gı liwə duwa gı daa da: $4 \times a$

b) Mani nə gı 'wogıgı rektangıl:

Gındəgı dı biyə:

Rektangıl da, i mani nə gı ırmıgı le. Tulbəw i wodı me dıngi gı wodı da, i tıba tıba.

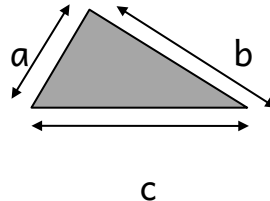


Āsa gı liwə duwa gı daa da: $(2 \times a) + (2 \times b)$

c) Mani nə gı 'wogıgı tirangıl:

Gındıw dı biyə:

Tirangıl i mani nə tulbəgı i subu.



Āsa gı liwə duwa gı daa da: $a + b + c$

Ɛrmə gɨ sɨŋa dɨdɨ bɨlnani dɨra

Ɛrmə gɨ ta di gɨlɨw gun 'wacŋa gɨ yiga duwa bɨlnani duwa me kulu duwa bɨlnani duwa me ciri dɨ geche bɨlnani dɨra me ca. Mana bɨlnani duwa da, gɨ ɨrmɨw i gɨ mani nə gɨ 'wogɨgɨ metɨr kare (m^2), kilometɨr kare (km^2), gɨ ar (= $10 m^2$), gɨ hektar ($100 m^2$), labaa, mana gɨ bani da, gɨ ɨrim i gɨ santimetɨr kare (cm^2).

1	2	3	4	5	6	7	8	9	10
2									
3									
4									
5									
6									
7									
8									
9									
10									

Yarna kare gɨ tulbəw i 10 cm. $10 \times 10 = 100$

Yande da, bɨlnani gɨ dalawə pad da, i $100 cm^2$.

Yarna me āsɨna kare gɨ bani bani ta di.

1. Āsa gi mana gi tulbaw wodi:

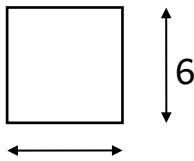
Mə ùrnə dara 'wacḡa yiga dalaw pad b̄lnani duwa da, ur̄m i 'wacḡa charni duwa me b̄lnani duwa me do me mə bamḡi daa àl miltiplikason day.

Àl ya:

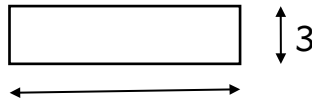
1. Yiga dan b̄lnani duwa i met̄r 22 me charni duwa i met̄r 45, dalaw pad naḡa duwa i 990 m^2 , dara:

$$22 \text{ m} \times 45 \text{ m} = 990 \text{ m}^2$$

2. Yarna b̄rmə s̄r gi anə nem 'woo dara yiga s̄r gi dalaw b̄lnani duwa bor ca, b̄lnani ḡinə yiga m̄n duwa i 36 m^2 :



kare gaba
6 m me 6 m me



rektanḡil gaba
12 m me 3 m me

- a) 'Wacḡa yiga gi kare dalaw b̄lnani duwa da, i:
« tul̄w m̄n charni duwa \times tul̄w charni duwa »,
ka da i: $6 \times 6 = 36$

b) 'Wacṇa yiga gɨ rektanguler dalaw bɨlnani duwa da i:
« charni duwa × bɨlnani duwa »
ka da i: $12 \times 3 = 36$

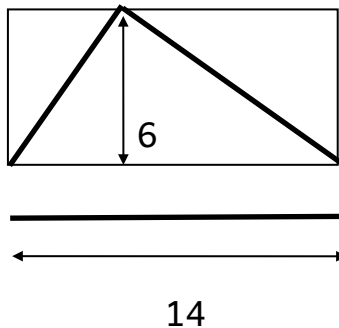
Giyə gaba àla 1:

Yiga gɨ charni duwa metir 50 me bɨlnani duwa metir 25 me da, dalaw pad naṇa duwa i ìndi mo?

2. 'Wacṇa yiga gɨ tirangɨl dalaw naṇa duwa:

Dara 'wacṇa tirangɨl dalaw naṇa duwa da, mə u charni duwa me hwa duwa me àl miltiplikason do me mə ìsì dodə korgiṇ sɨr. Tirangɨl sɨr gɨ bor ca ilə mana gɨ rektangɨl mɨn gɨ hwa duwa me charni duwa me ilə dalawə.

Àl ya:



Rektangɨl dalaw naṇa duwa pad: $6 \times 14 = 84$

Tirangɨl dalaw naṇa duwa pad: $84 : 2 = 42$

Giyə gaba àla 1:

Remi yiga duwa charni duwa i metir 40 me, bɪlnani duwa i metir 20 me ca. Anji giɲ kɪlanga ginə chendiw duwa gi charni duwa metir 30 me, bɪlnani duwa metir 30 di bam. Chendiw di irim yiga duwa me ba naɲ anju.

Yiga min da, dalaw naɲa duwa i man mo?

I wi gwale duwa 'yol mo?

Giyə gaba àla 2:

Asan yiga duwa bɪlnani duwa i metir 42 me charni duwa metir 65. Anji kɪl charwa di idi 'yáa daɲ bam.

Mana gi gasasa siwə da, gi jangi ba a nem bwaa mana gi yiga gi naɲa duwa i 800 m^2 . Urɪw āsan kɪlə charwa di gasasa indi me ha nyamaw yiga duwa di pad mo ?

Giyə gaba àla 3:

Piin ur barge 6 m^2 dara busə wusad gi ches dalawə.

Tandi ur ba di kɪl barge gi bɪlnani duwa i metir 2.

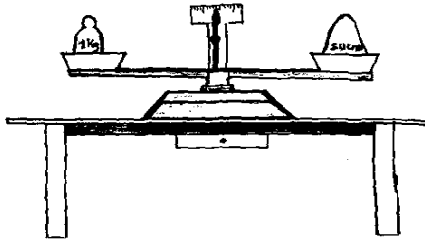
Urɪ kɪlə barge di metir indi mo?

Èrmə gî mani noo day

Ùr 'wacna gun noo duwa me mwagina noo duwa me mani noo day me ca. Gî ìrim i mani nə gî 'wogîgî **gram** me **kilogram** me **kental** (k) me **ton** me ca.

Gram (gr), kilogram (kg), kental (k), ton (t) da, i mani woni ìrmə noo gîna mani day.

Kilo dî bor ca ca:



Kilo dî idî ìrmə mani nə noo i:

- Nimi litîr mîna da, noo duwa i kilo 1 (1 kg).
- Dine dî nimiyə dî geche da, noo dîra i ton 1 (1 t).
- Kabno gî geche da, nem laya mani ton 30 labaa 40.

a) Mani nə nu døy kilo bam:

$$1 \text{ ton} = 1\,000 \text{ kg}$$

$$1 \text{ kental} = 100 \text{ kg}$$

Ton (t)	kental (k)	10 kg	Kilogram (kg)
1	0	0	0
	1	0	0
		1	0
			1

Giyə gaba àla 1:

$$10 \text{ t} = \dots \text{ kg}$$

$$2 \text{ k} = \dots \text{ kg}$$

$$6 \text{ k} = \dots \text{ kg}$$

$$3 \text{ t} = \dots \text{ kg}$$

b) Mani nə bəni nə kilogram nu dəygi bam:

$$1 \text{ kg} = 1000 \text{ gram (gr)}$$

Kilogram (kg)			Gram (gr)
1	0	0	0
			1

Giyə gaba àla 2:

$$2 \text{ kg} = \dots \text{ gr}$$

$$5 \text{ kg} = \dots \text{ gr}$$

$$2500 \text{ gr} = \dots \text{ kg}$$

$$10000 \text{ gr} = \dots \text{ kg}$$

Mani naŋa day

Gɪndiɯ dɪ biyɛ: bolim da i mani naŋa day mana gɪ kwandagɪ dɔwɔragɪlɛ. Gɪ ɪrmɪw i gɪ mililitɪr, litɪr, hektolitɪr me metɪr kub, etc...

$$1 \text{ litɪr} = 1000 \text{ ml}$$

$$1 \text{ metɪr kub} = 1000 \text{ l} = 1 \text{ ton}$$

ɪrmɛ mani dɔwɔragɪ :

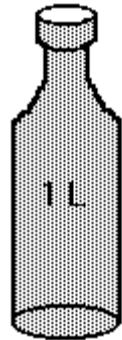
Gɪndiɯ dɪ biyɛ: kapasite da, i mani nɛ nimi nɛ mana gɪ mani dɔwɔragɪ lɛ.

a) Litɪr

Mani nɛ baɔ woni ɪrmɛ kapasite da, i litɪr.

Barmil mɪn da, yɪ litɪr 200.

So mɪn da, yɪ litɪr 10 labaa 15.



b) Mani nɛ litɪr dɔyɔgɪ bam

$$1 \text{ litɪr} - 1000 \text{ mililitɪr (ml)}$$

Litɪr (l)			Mililitɪr (ml)
1	0	0	0
			1

Giyə gaba àla 1: Cwanandi:

$$2 \text{ l} = \dots \text{ ml}$$

$$10000 \text{ ml} = \dots \text{ l}$$

$$6 \text{ l} = \dots \text{ ml}$$

$$1500 \text{ ml} = \dots \text{ l}$$

b) Mani nə nañ døy litır bam:

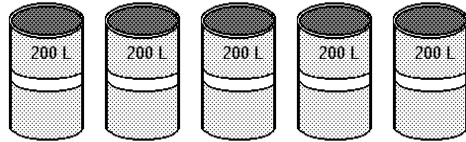
$$100 \text{ l} = 100 \text{ litır} = 1 \text{ hektolitır (hl)}$$

$$10 \text{ hl} = 1000 \text{ litır} = 1 \text{ metır kub (m}^3\text{)}$$

1 metır kub

$$= 1000 \text{ l}$$

$$= 5 \text{ barmil dı 200 l}$$



Metır kub (m ³)	Hektolitır (hl)		Litır (l)
1	0	0	0
	1	0	0
			1

Giyə gaba àla 2: Cwanandi:

$$300 \text{ l} = \dots \text{ hl}$$

$$50 \text{ l} = \dots \text{ hl}$$

$$10 \text{ l} = \dots \text{ ml}$$

$$5 \text{ hl} = \dots \text{ l}$$

$$1 \text{ m}^3 = \dots \text{ l}$$

$$4 \text{ m}^3 = \dots \text{ hl}$$

Gwale:

1. Patime kubı nımı 'won barmil dı idi yəə litır 200 daa.

Tandi u i mani woni yəə litır 25 me kubı nım. Ûrdı i

hára bıla læ gıdadı ındi me ha 'wana gı barmil daa mo?

Cwara gaba yara: Gwale

1. Diba da, gi isigi i man man mo?

Chandirang mar bam. Anji kal labje na namde 64, me bage 24, lama min me, duroje 192 me gursi 37.320 FCFA. Abirang ha yea duwa lama, me mani na wor da, gi ha isagi doda korgin 8.

Isa gi 8 da, i na ha 'ya la ba ba mo?

2. Gama gi swaga nana Pwana duwa:

Yiga gi chire gin Pwana duwa i pige 3½. Yiga gin Pwana duwa gi ta di, pige min da, haraw gi chire ton 1 gi kilo 750.

a) Pwana 'yo chire pad da, i indi mo?

b) Anji kilna chire di bam kilo min gi gursi 120 FCFA da, anji ha 'yawa gursi indi mo?

c) Pwana ha 'ywaga gursi di idi charwa di laptanna 60.000 FCFA, 2.000 FCFA dara lombo duwa me dyamo dira me, 90.000 FCFA dara dindaw lekol day, 145.000 FCFA dara barge day gi na dindaw me, 45.700 FCFA dara faraba gi kululi day me, 'yadi dyamo 25'000 FCFA dara kilba mani dira na nungdi.

Anji huru gursi 200.000 FCFA mana gi ladeya bangki.

Anji diraw ur kilu gi belo. Belo gi dirway da, gursi duwa i 86.000 FCFA.

Gursi duwa da, ha nyamaw mani nã ta di pad mo?

d) Gursi woriw dodã ìndi mo?

e) Anji unã gursi duwa di ìsinã dodã korgiñ wodĩ me unã ìsã di mìn 'yànadi iw di hale di idi mwom. Tandĩ ha 'ywaa gursi ìndi mo ?

3. Ladni gorndidi gi mañ mwom duwa

Ladni mañ ðira womire. Impirme waydi ba kilnã siro gaba gache. Anji waydi Ladni ba da, wãla mìn da, 'yãw kuyar gaba yã ml 5 dalaw 3 dii wodĩ. 'Yãw kaliw a yã àl wãla mwac. Gasasa gaba siro yi charwa di i ml 200.

a) Ladni ha kilã i gasasa gi siro di ìndi me ha 'yãw dwe di nyama mo?

b) Gasasa mìn da, gursi duwa i 2.650 FCFA. Ladni gursi ðira da, i 5000 FCFA mĩra. Ùrdi i gursi ìndi lã ðang mo?

c) Ladni magdi gĩna leda lã ha nĩm kilã bam sug lã. Tandĩ kilnã ma mìn bam gi gursi 15 FCFA da, ùrdi i kilã magda ìndi me ha nyamadi kilãw gi dwe ðira di charwa lada mo?

4. Dara gi yiga dara swagã

Maji ùr ba 'yo chire ton 15 aliya gi laba lã. Metir kare mìn 'yãnaw chire kilo 2 da, yiga duwa di naña duwa i man mo? Gi m² ? Gi ar? Gi hektar?

5. Āsa mana yàa duwa

Ùrìw i Adum hára dawa dɪndadi 6 do me, dɪmɛ ciri kugimiyɛ sɪŋ. Adum ha kaláng naŋe. Anji ha kilomɛtɪr 5½ dawa dwe dɪra mɪn dalawɛ.

a) So ciri duwa lɛ ha ciri dɪ kugimiyɛ da, bulɛ day i ìndi mo?

b) Adum ùrnɛ ba ha dayara gɪnɛ komite nɛ alpa day i gɪ 15h30 da, ùrìw i swaa ulay duwa lɛ gɪ dawa na mo? Komite di cagdana daa dayara lɛ di gɪ 19 h me Adum ìndarna hára bɪrɪŋ me da, anji ha gɪrɛ ulay duwa lɛ gɪ dawa na mo?

6. Giyɛ gɪ letɪr:

Mari giy letɪr mwac bii jii mana gɪ Prās. Letɪr dɪ 10 da, noo dɪra nem gram 10 bɛdɛ. Ìrɪ, letɪr dɪ 3 da, noo dɪra i gram 16 me, letɪr dɪ 2 da, i gram 25.

Gursɪ dɪ postɪ dɪ idɪ hára Prās da i:

0 - 10 gr	500 FCFA
10 - 20 gr	600 FCFA
20 - 30 gr	725 FCFA
30 - 40 gr	850 FCFA

Mari ha 'ywaga gursɪ pad ìndi mo?

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