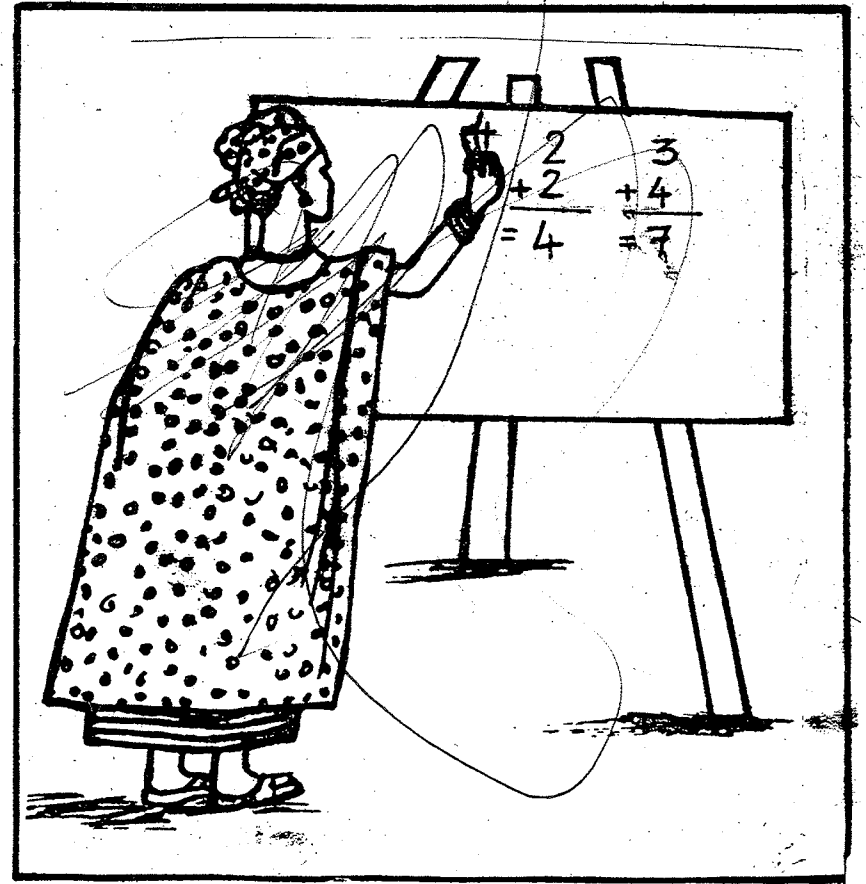
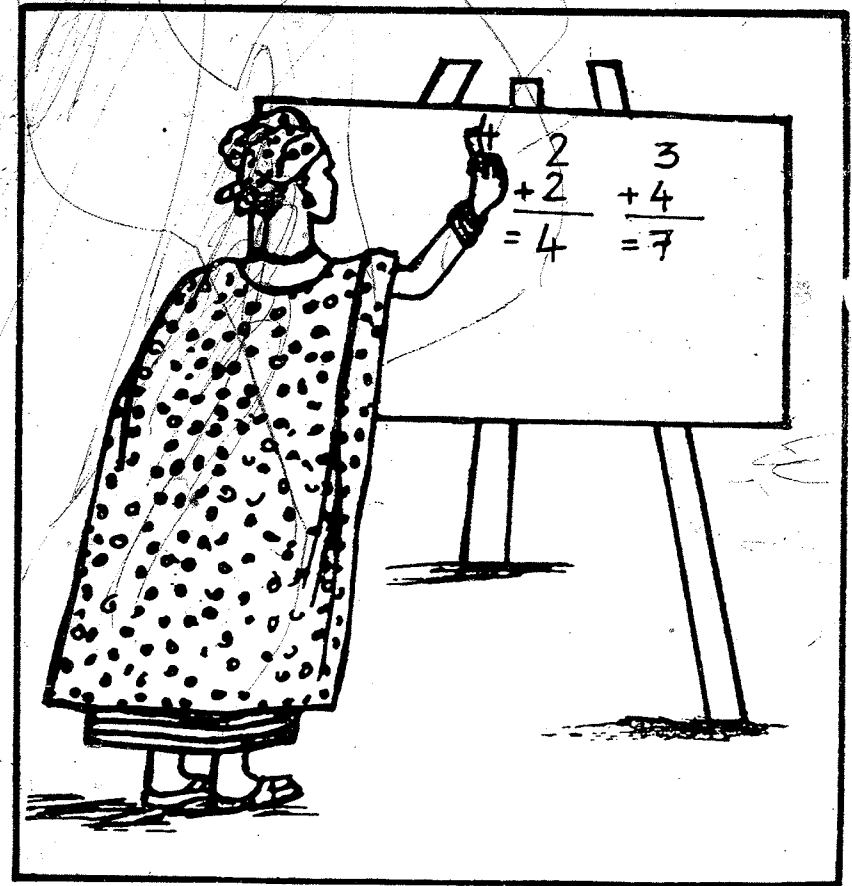
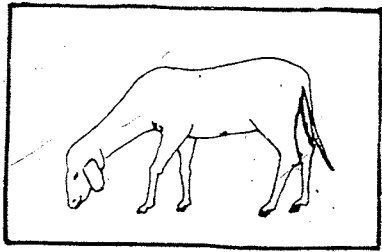


bonfeeray kabu

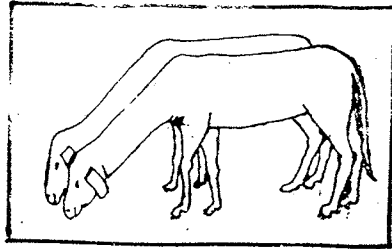


bonfeeray kabu





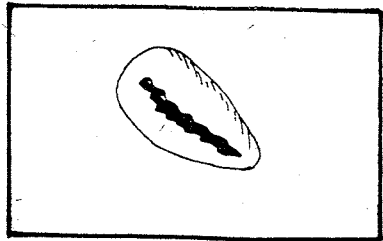
feeji 1



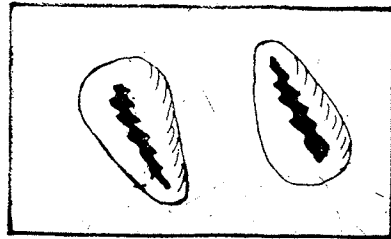
feeji 2



hansi 3



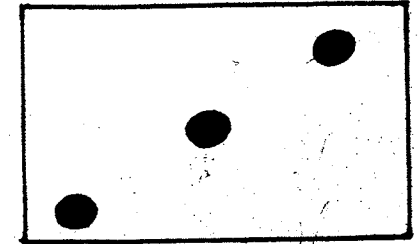
wali 1



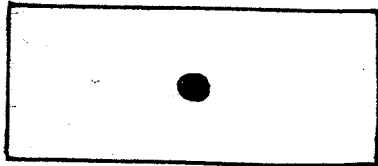
wali 2



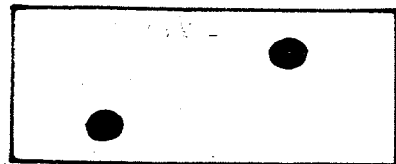
wali 3



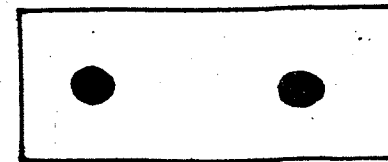
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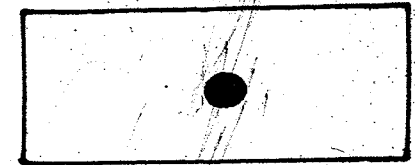
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2



2



1

hantum

12

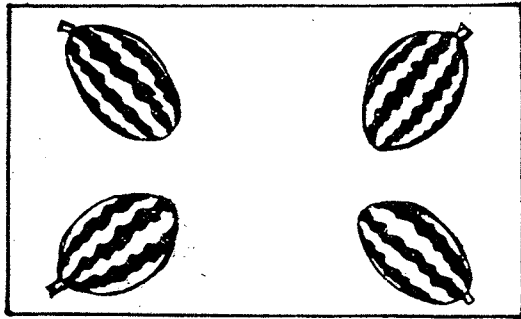
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hantum

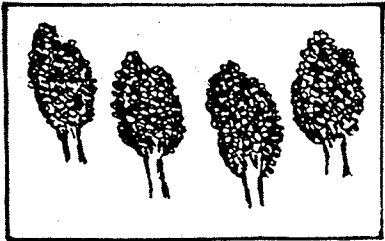
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12

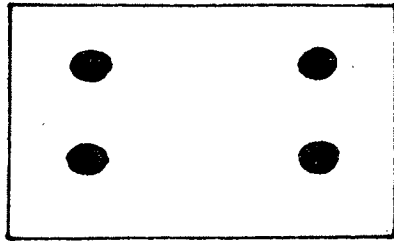
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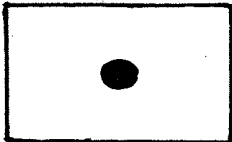
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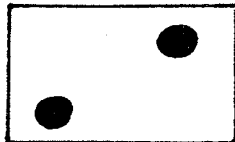
jeeni 4



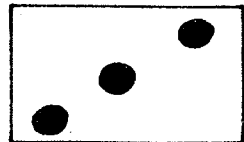
4



1



2



3

hantum

4

3 4

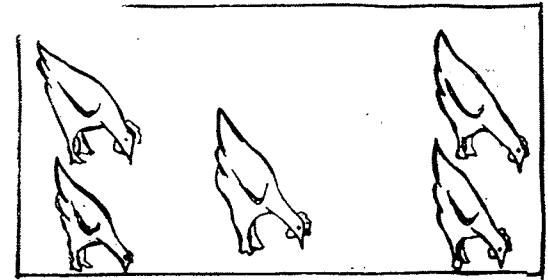
1 4 2 3



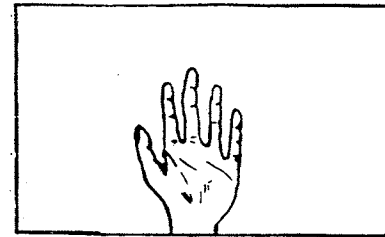
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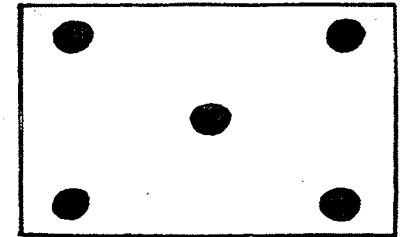
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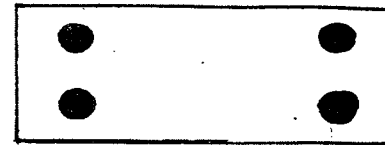
gorgo 5



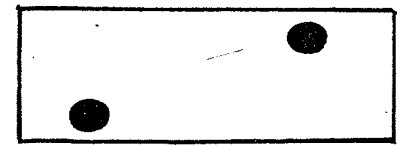
kabe-ize 5



5



4



2



3



1

hantum

5

4 5

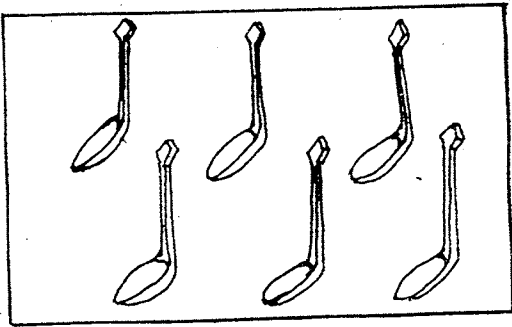
1 2 5 3 4



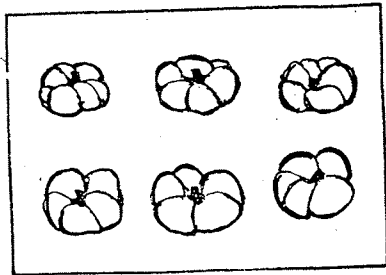
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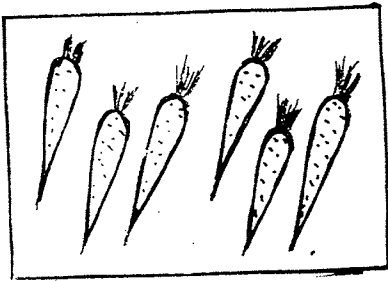
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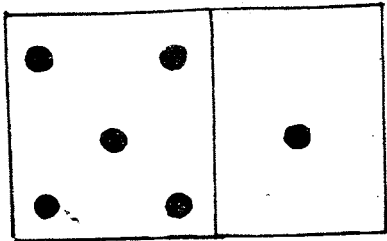
sokol 6



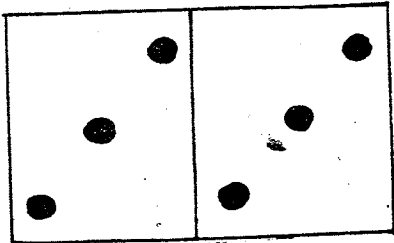
tamaati 6



karooti 6



6



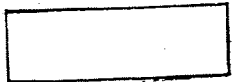
6

hantum

6

4 5 6

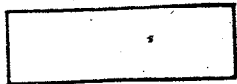
3 5 1 4 6 2



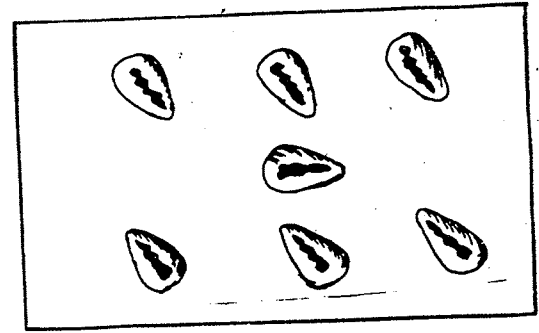
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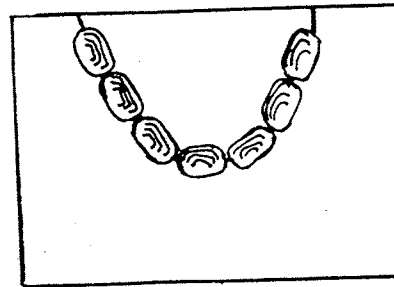
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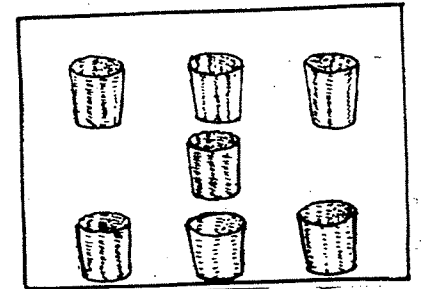
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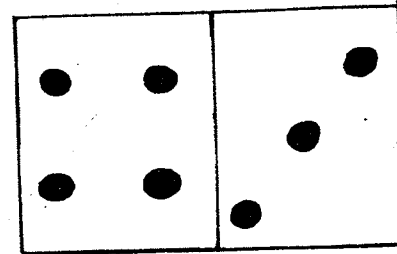
wali 7



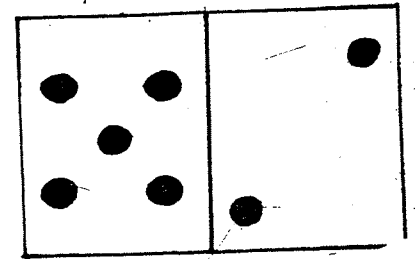
hiiri 7



woyra 7



7



7

hantum

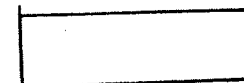
7

5 6

1 2 3 4 5 6 7



4

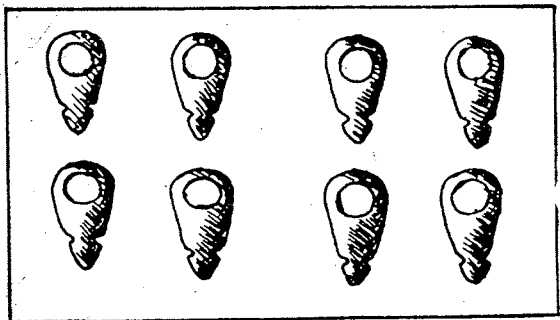


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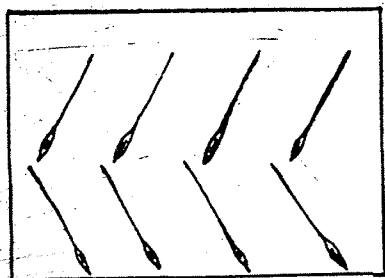


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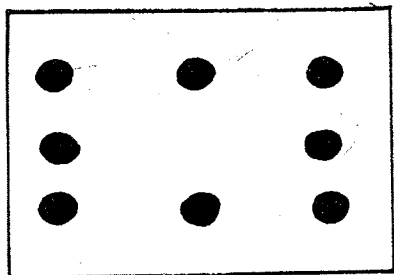
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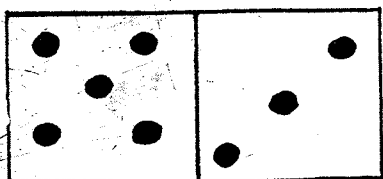
kawla 8



sulba 8

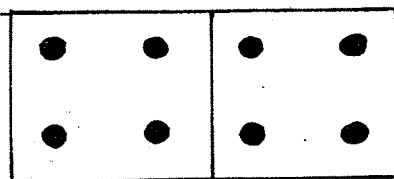


8



8

hantum



8

8

6 7

caw

3 2 4 7 8 5 1



4

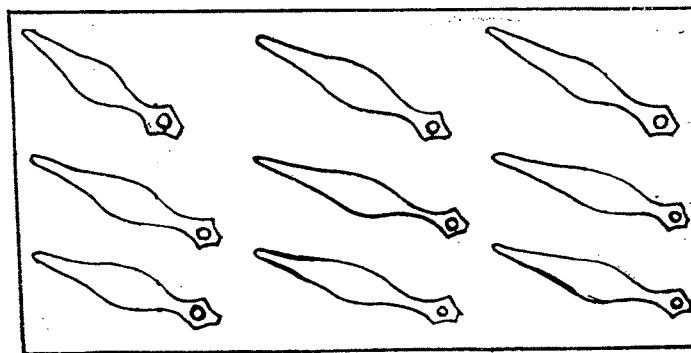


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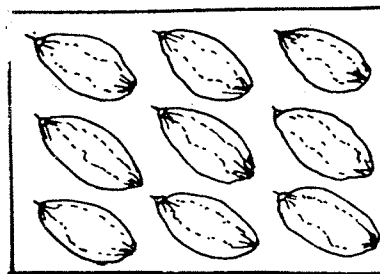


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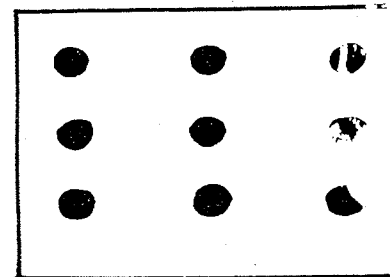
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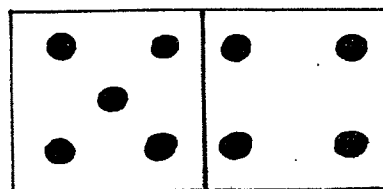
šaj huryaw 9



teenay
9

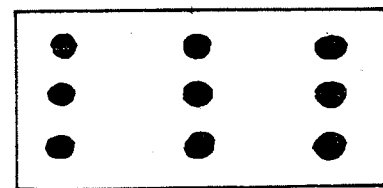


9



9

hantum



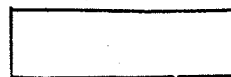
9

9

7 8

caw

0 1 2 3 4 5 6 7 8 9



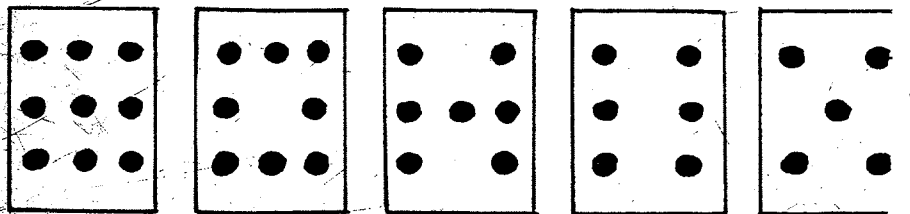
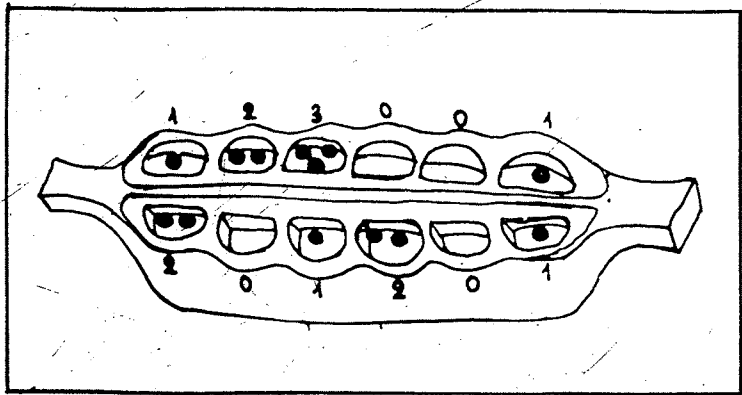
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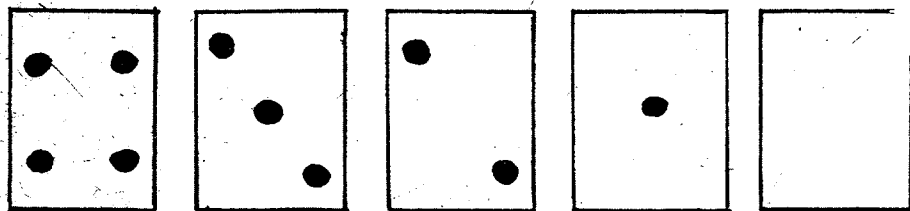
6



9



9 8 7 6 5



4 3 2 1 0

hantum

0
7 8 9

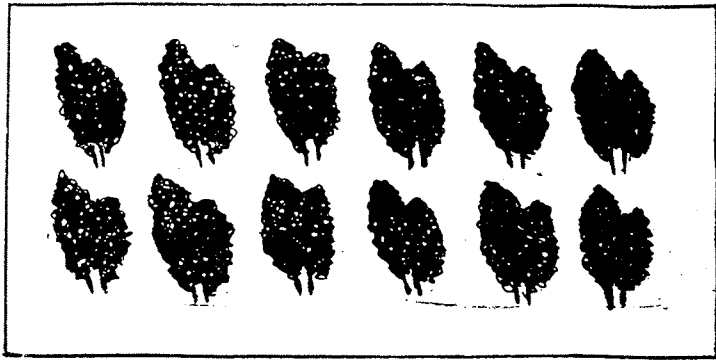
0 1 2 3 4 5 6 7 8 9

filla

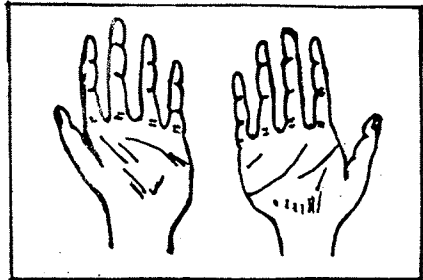
0 1 2
3 4 5 6
7 8 9

0 1 2 3 4 5 6 7 8 9

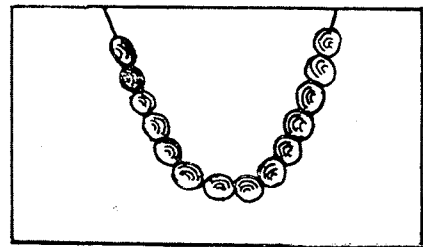
1 2 3 4 5 6 7 8 9 0



jeeni 12



kabe-ize 10



hiiri woy cindi taaci (14)

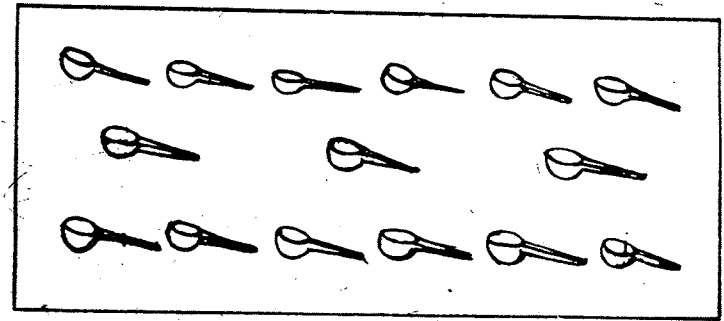
iwoy	cindi
1	0

iwoy	cindi
1	4

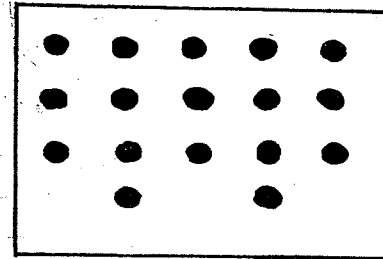
iwoy	affawey
------	---------

caw 0 1 3 9 6 10 12 14

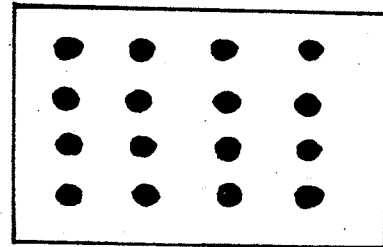
hantum 12 10 11 13



zooto 15



tonbi woy cindi 7

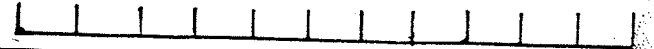


tondi woy cindi 6

iwoy	affawey
1	7

iwoy	affawey
1	6

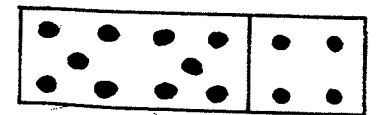
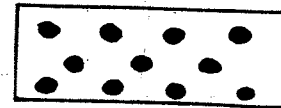
9 10 11 12 13 14 15 16 17 18 19 20

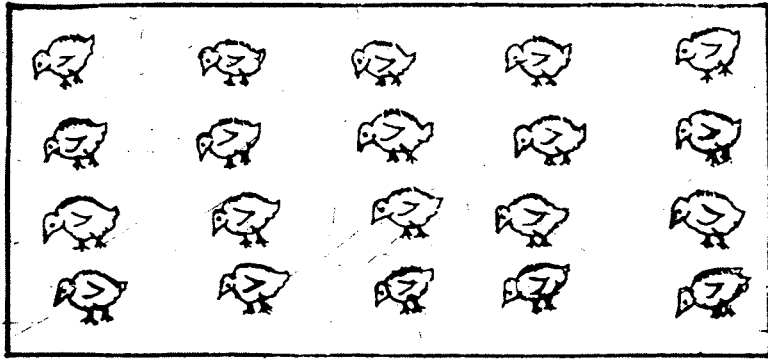


hantum

11 13 17 19 18

tonbey hinnaa daɗ





gorgo - i ze 20

guuri waranka



<u>iwoy</u>	<u>cindi</u>
2	0

guuri waranka cindi 5



<u>iwoy</u>	<u>cindi</u>
2	5

guuri waranza cindi 7

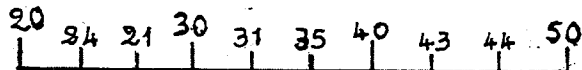


<u>iwoy</u>	<u>cindi</u>
3	7

guuri woy 6 cindi 9



<u>iwoy</u>	<u>cindi</u>
6	9



caw

63 81 70 73 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

caw

52 - 83 - 11 - 77 - 30 - 87 - 18 - 64

33 - 50 - 14 - 82 - 57 - 16 - 39 - 90

42 - 80 - 96 - 72 - 20 - 23 - 61 - 40

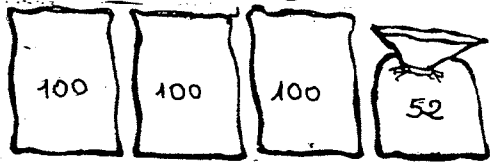
gaari kilo zangu nda kilo 45



gaari kilo 145

nda		
zangu	woy	cindi
1	4	5

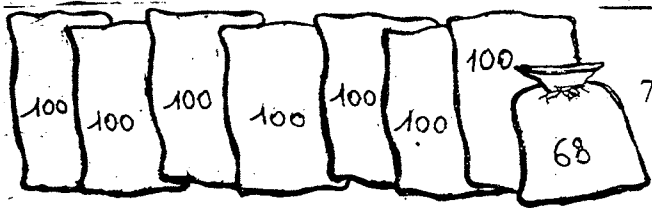
hommo kilozangu 3 nda kilo woy 5 cindi 2



hommo kilo 352

nda		
zangu	woy	cindi
3	5	2

hayni kilo zangu 7 nda kilo woy 6 cindi 8



hayni kilo 100

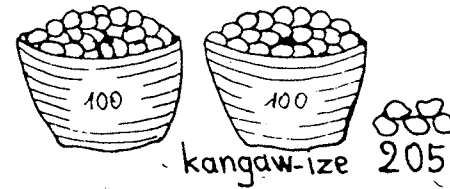
nda		
zangu	woy	cindi
7	6	8

zangey	iwoyey	affawey
1	4	5
3	5	2
1	3	5

hantum

120	136	149	452	5
<u>caw</u>				
142	560	691	237	84
444	618	915	519	860
			392	210
			730	178

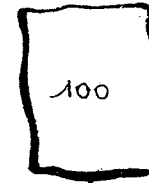
kangaw-ize zangu 2 nda ize 5



kangaw-ize 205

nda		
zangu	woy	cindi
2	0	5

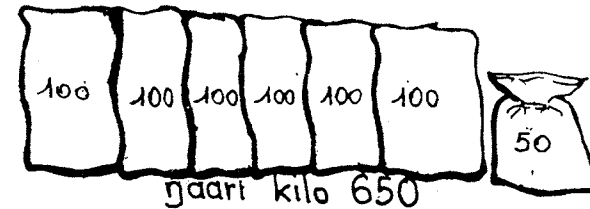
hayni kilo zangu 1



hayni kilo 100

nda		
zangu	woy	cindi
1	0	0

gaari kilo zangu 6 nda kilo woy 5



gaari kilo 650

nda		
zangu	woy	cindi
6	5	0

zangey	iwoyey	affawey
1	0	0
2	0	5
6	5	0
8	0	9
9	9	0

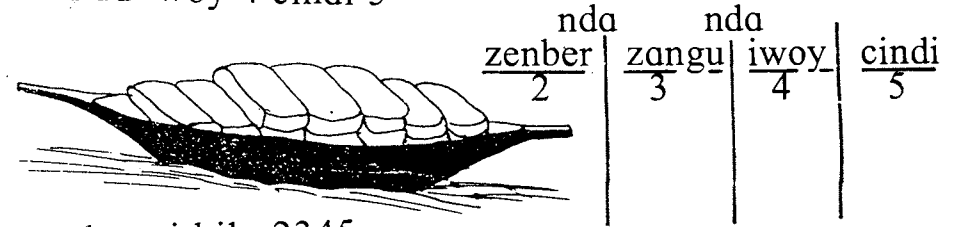
hantum

106	207	309	990	801
<u>caw</u>				
405	500	690	707	310
120	805	307	580	770
			209	420

zangey

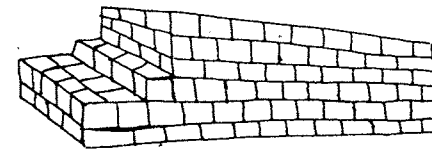
120	141	112	307	400	240
100	101	109	110	250	325
130	142	113	203	215	230
310	401	460	504	222	162
150	290	440	590	453	340
540	720	111	618	941	888
200	581	240	597	818	149
999	317	468	102	333	701
460	730	178	219	986	581
153	391	420	758	214	696
359	942	666	289	430	150

hayni kilo zenber 2 nda zangu
3 nda woy 4 cindi 5



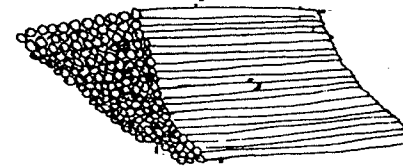
hayni kilo 2345

feraw zenber 1 nda zangu
2 nda woy 6 cindi 3



feraw 1263

bundu zenber 5 nda zangu
6 nda iwoy cindi 1

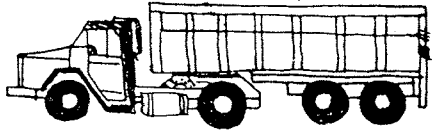


garu bundi 5611

zenberey	zangey	iwoyey	affawey
9	2	5	3
1	2	6	3
2	3	4	5

caw
1124 - 6699 - 4321-7296 - 8895 - 1539 - 4713
3941 -5869- 6969 -2696 7532 - 8794 - 7389
9999 - 4275 -6699 -3137 -5256 - 7232 - 8744

ɲaari kilo zenber 3 nda
woy 4 cindi 5



	nda zenber	nda zangu	nda iwoy	cindi
	3	0	4	5

ɲaari kilo 3045

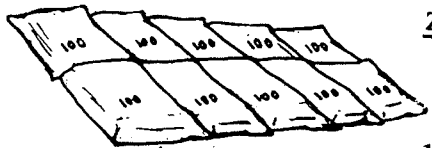
hayni kilo zenber 1 nda
woy 5 cindi 7.



	nda zenber	nda zangu	nda iwoy	cindi
	1	0	5	7

hayni kilo 1057

hommo kilo zenber 1



	nda zenber	nda zangu	nda iwoy	cindi
	1	0	0	0

hommo kilo 1000

zenberey	zangey	iwoyey	affawey
1	0	0	1
4	8	1	0
9	9	0	9

hantum

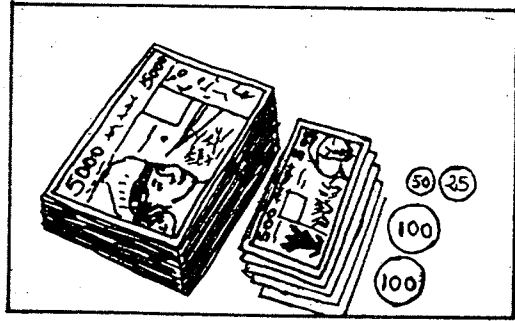
1234 - 2904 - 9700 - 6804 - 7012 - 3002

caw

2945 - 3690 - 1201 - 2120 - 4798 - 6090

3700 - 8205 - 5030 - 2794 - 1001 - 1010 - 1100 -

7694 - 7094 - 4444 - 9969 - 2009 - 3090 - 7800 -



kaatibi zenber waranka cindi 4 nda zangu 5
nada woy 5

cindi 5
nda nda nda

zenber woyey	zen- ber	zan- gu	woy	cindi
2	4	5	5	5

kaatibi 24555

kaatibi zenber woy 4 nda zangu 1 nda woy 9
cindi 2

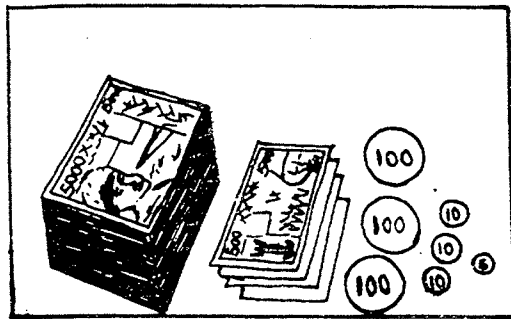
zenber woyey	zenbe- rey	zan- gey	iwo- yey	affa- wey
4	0	1	9	2

kaatibi 40 192.

zenber woyey	zenbe- rey	zangu	iwoyey	affa- wey
2 3	4 6 8	5 0 5 1	5 6 2 0	5 7 3 9

caw

12454 - 35050 - 46500 - 70153 - 85025
27340 - 76906 - 50259 - 90042 - 81004 -
6000



kaatibi zenber zangu 2 nda zenber woy 5 cindi
3 nda zangu 4 nda woy 6 cindi 7.

caw

zenber zangu	zenber woy	zenber		woy	cindi
2 4	5	3		6	7

kaatibi 253 467

kaatibi zenber zangu 4 nda zenber woy 9 nda
zangu 1 nda woy 5.

caw

zenber zangu	zenber woy	zenber	zangu	woy	cindi
4	9	0	1	5	0

kaatibi 490 150.

zenber zangey	zenber woyey	zenbererey	zangey	iwoyey	affa wey
2	5	3	4	6	7
8	3	0	1	5	0
1	0	5	0	9	8

caw

253467- 241 350-672 900 -320 504 -907- 806.

120 200- 400 521-824 000 -500 000 -300 205.

zenber zangey	zenber woyey	zenberrey	zangey	iwoyey	affawey
				1	8
				3	0
			1	0	9
		3	8	8	1
	1	9	6	2	0
	5	5	0	4	5
2	0	1	8	4	3
3			1	0	9
					5

hantum

8 - 412 - 32 - 4 - 69 - 1030 - 0 - 109.

caw

2463- 42 720 - 9697 - 123465 - 4005 -

72 700 - 30296 - 508 142 - 9000 - 82049 - 239000.

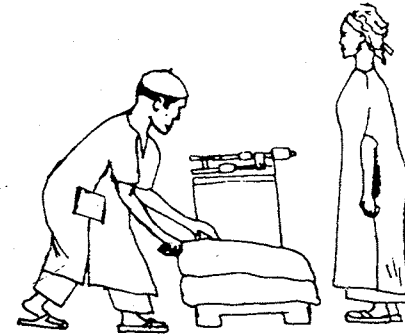
80 000 - 400504 - 3002 - 51072 - 60000 - 4344.

29609 - 700509 - 840260 - 700505 - 8000.

500 - 296 - 13 - 403 - 2806 - 144400 - 999 909.

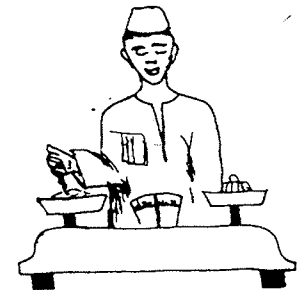
kilo

nda ni ga baa ka ni moowaa neere basikiloo boŋ ni ga a jisi hala ma duu ka nga kilowey hinnaa bay. hinnaa din ti nga tiŋaa. ni moowaa tiŋaa ga hin ka ti kilo 154.



garam

nda boro ga attay neere garam nda ni ga a neesi ka nga tiŋaa bay. attayoo tiŋaa ga hin ka ti garam 200.



ton

kunjikoyra borey koy taasu day ngey sekiteroo se. opam na taasu neere i se kaŋ nga tiŋaa ti ton 10.



ir ma bay kaŋ :

ir ma bay kaɗ :

- ton 1 sawa nda kilo zenber foo

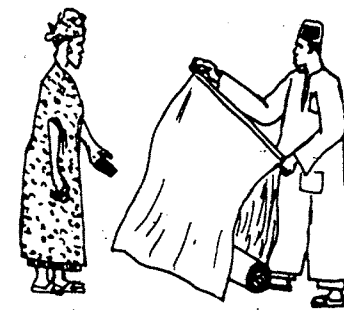
ton 1 = kilo 1000

- kilo foo ga sawa nda garam zenber foo

kilo 1 = garam 1000

meetar

nda ni ga darbay day meetar nda i ga a neesi bitijoo ra. meetar 1 ga hima ka sawa nda kabe hinka



santimeetar

meetaroo zemma zangu ti santimeetar 1.

ma bay kaɗ :

meetar 1 ga sawa nda santimeetar 100.

meetar 1 = santimeetar 100.

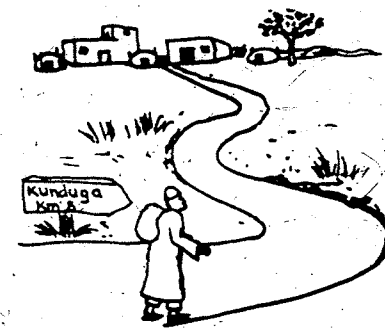
santimeetar 100 = meetar 1.

nda war na meetar 1 nda santimeetar 50 daɗ cere ga, woo ti santimeetar 150.



kilomeetar

nda boro hun buram ka koy kundaga, kilomeetar 5 no ni ga a dira. nda ni hun wataguna ka koy fafa kilomeetar 16 no ni ga a dira.



ma bay kan

kilomeetar 1 = meetar 100

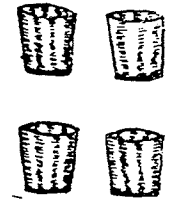
wala binde

meetar 1000 = kilomeetar 1

tontonyan

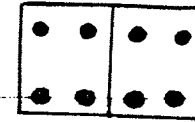


$$\begin{array}{r}
 4 \\
 + \\
 4 \\
 \hline
 = 8
 \end{array}$$

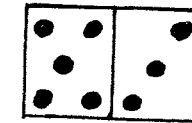


woyra 4

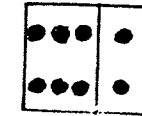
woyra 4



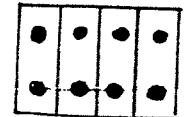
4 + 4 = 8



5 + 3 = 8



6 + 2 = 8



2 + 2 + 2 + 2 = 8

fati koy yooboo ga. a na kaatibi 26 ciiri

day, a yee ka kaatibi 31 faku day. marje ka hun fati ga ?

$$\begin{array}{r}
 26 \\
 + 31 \\
 \hline
 =
 \end{array}$$

nda ni baa ma hinnaa bay tontonyan no ni ga tee :

ma nee : kaatibi 26 kan tonton kaatibi 31 ga.

woo ti

marje.

wala binde kaatibi 24 + 32 = marje ?

laasaabu :

6 kan tonton 1 ga sawa nda 7 , iwoy_ | cindi

ma 7 hantum 1 cire.

2 kan tonton 3 ga sawa nda 5, + 3 | 6

ma 5 hantum 3 cire.

$$\begin{array}{r|l}
 2 & 6 \\
 + 3 & 1 \\
 \hline
 = 5 & 7
 \end{array}$$

timmandi

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array} \quad \begin{array}{r} 22 \\ + 14 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ + 2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ + 5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ + 14 \\ \hline \end{array} \quad \begin{array}{r} 62 \\ + 24 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

tontonyan

furari : adizatu na soonda beeri guuru day nga saddiɗa se. Soowahayooti kaatibi 450, guuroo hayooti kaatibi 302. maaje no adizatu na a daɗ jinawey ra !

tontonyon no war ga tee ka duu hinnaa kan

hun adizatu ga.	$\frac{zangu}{4}$	$\frac{nda}{5}$	$\frac{cindi}{0}$
war ma nee			
o kan tonton 2			
ga ga sawa			
nda 2, war ma			
2 hantum 2cire.	+ 3	0	2
5 kan tonton o ga, woo ti 5			
war ma 5 hantum 0 cire. =	7	5	2

4 kan tonton 3, woo ti 7,
war ma 7 hantum 3 cire.
zaaboo ti : $450 + 302 = 752$.

furari : arcikoyra woyey kondaa na ngey tamaati kogaa nda ngey albasaroo neere. I duu albasaroo ra kaatibi 3254, i duu tamaatoo ra kaatibi 2310. marje ti ngey nooroo kul ?

$$\begin{array}{r} 3254 \\ + 2310 \\ \hline \end{array}$$

=

wa tontonyan tee :

4 kaɗ tonton o
ga ti 4, a ma huru
o cire,
5 kaɗ tonton 1
ga ti 6, a ma
huru 1 ciré,
2 kaɗ tonton
3 ga ti 5,
a ma huru
3 cire,
3 kaɗ tonton 2
ga ti 5, a ma huru
2 cire.

zaaboo ti : 3254
+ 2310 = 556 =

	nda			
	zenber	zangu	iwoy	cindi
	3	2	5	4
+ 2		3	1	0
= 5	5	6	4	

timmandi :

314	2633	640	4260
+ 520	+ 1046	+ 325	+ 315
=	=	=	=

tontonyan

furari : fati na kaatibi 67 tuuri day.
a yee ka kaatibi 28 denji day.
marje ti tuuroo nda denjoo kul hayey cere ra ?

$$\begin{array}{r} 67 \\ + 28 \\ \hline \end{array}$$

tontonyan no ma tee :

laasaabu

affawey sorraa:

7 nda 8 ga sawa nda 15.
15 kabu-ize hinka no; kabu-ize hinka 1 :
binde si hin ka kuru sorro follokaa ra.
adisi 5 no ma hantumandi 8 cire, zama
affawey se a goo, 1 si kala iwoyey se.

iwoy	cindi
6	7
+ 2	8
= 9	5

woo se a ga huru iwoyey sorraa beene boɗoo ga.

iwoyey sorraa : 1 kaɗ tonton 6 nda 2 ga.
ga sawa nda 9. 9 ga hantumandi 2 cire.
zaaboo. 67 + 28 = 95.

timmandi

56	42	17	36
+ 25	+ 38	+ 74	+ 45
=	=	=	=

furari : zali cere woyey n'a sanba a ma koy moo dumi day ngey se.
 zali na kaatibi 2467 ka koso day, a na kaatibi 3628 ka mala day, marje no zali n'a daɗ moo dumi hinkaa ra ?

$$\begin{array}{r} 2467 \\ + 3628 \\ \hline \end{array}$$

timmandi :

$$\begin{array}{r} 435 \\ + 372 \\ \hline \end{array} \quad \begin{array}{r} 1532 \\ + 818 \\ \hline \end{array} \quad \begin{array}{r} 745 \\ + 287 \\ \hline \end{array} \quad \begin{array}{r} 4715 \\ + 7026 \\ \hline \end{array}$$

tontonyan no ma tee :

laasaabu

affawey sorraa: 7
 nda 8 ga sawa
 nda 15. kabu-ize
 hinka no. kabu-ize
 hinka si hin ka
 huru sorro follokaa
 ra. adisi 5 no ma
 hantumandi 8
 cire, zama affawey
 se a goo. Iga
 koy huru iwoyey
 sorraa se beene.

iwoyey sorraa :
 1 kaɗ tonton 6 nda
 2 ga, ga sawa nda 9.
 a ga huru 2 cire

zangey sorraa 4 nda 6 ga sawa
 nda 10. i kul si hin ka huru sorro
 follokaa ra. kala o ma huru 6 cire,
 zama zangey se a goo. 1 ga ziji
 zenberey se beene.

zenberey sorraa : 1 kaɗ tonton 2
 nda 3 ga, ga sawa nda 6. a ga
 huru 3 cire.

zaaboo : 2467 + 3628 = 6095.

	zenber	zangu	iwoy	cindi
	2	4	6	7
+ 3	3	6	2	8
= 6	(1) 0	9	(1) 5	

tontonyan

$$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1 \quad 9 \\ + \quad 6 \\ \hline = 1(1) \quad 5 \end{array}$$

$$\begin{array}{r} 22 \\ + 31 \\ + 16 \\ \hline = 69 \end{array}$$

$$\begin{array}{r} \overset{2}{|} \quad \overset{1}{|} \quad \overset{1}{|} \quad 5 \\ 8 \quad 4 \quad 5 \\ + \quad \overset{1}{|} \quad \overset{1}{|} \quad 6 \\ 6 \quad 1 \quad 6 \\ + \quad \overset{1}{|} \quad \overset{1}{|} \quad 9 \\ 9 \quad 5 \quad 8 \\ \hline = 2(2) \quad 4 \quad (1) \quad 1 \quad (1) \quad 9 \end{array}$$

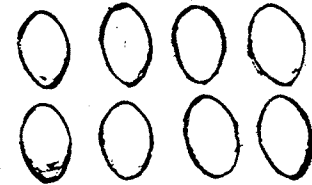
$$\begin{array}{r} \overset{1}{|} \quad 4 \quad 0 \\ + \quad \overset{1}{|} \quad 3 \quad 3 \\ + \quad \overset{1}{|} \quad 1 \quad 7 \\ \hline = 9(1) \quad 0 \end{array}$$

$$\begin{array}{r} 5124 \\ + 1002 \\ + 423 \\ \hline = 6549 \end{array}$$

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

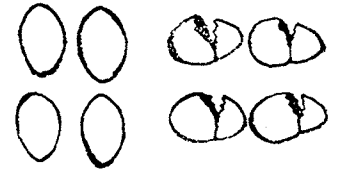
$$\begin{array}{r} 422 \\ + 524 \\ + 30 \\ \hline = \end{array} \quad \begin{array}{r} 1202 \\ + 1030 \\ + 1125 \\ \hline = \end{array} \quad \begin{array}{r} 8791 \\ + 849 \\ + 1433 \\ \hline = \end{array}$$

kaayan



guuri 8

8
- 4
<hr/>
= 4



furari : adizatu na salaatiyaṅ neere, a duu i ra kaatibi 48. a na kaatibi 23 kaa a ra ka sukar day. marje ka cindi adizatu se.

$$4 \quad 8$$

$$\begin{array}{r} - 2 \quad 3 \\ \hline = \end{array}$$

kaayan no ir ga tee ka duu hinnaa kaṅ cindi adizatu se.
ir ma nee : kaatibi 23 kaṅ hun kaatibi 48 ra. marje no ma cindi ?
laasaabu

affawey sorraa: 3 kaṅ hun 8 ra; a ga cindi 5.5 ga hantumandi 3 cire.

iwoyey sorraa: 2 kaṅ hun 4 ra ; a ga cindi 2.2 ga huru 2 cire.
zaaboo : 48 - 23 = 25

<u>woy</u>	<u>cindi</u>
4	8
- 2	3
<hr/>	<hr/>
= 2	5

timmandi

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

kaayan

furari : sorko woy foo na nga hamiisa tayaa neere. a duu i ra kaatibi 485. a na kaatibi 342 kaa a ra ka taas day. marje ka cindi a se ?

$$\begin{array}{r} 485 \\ -342 \\ \hline \end{array}$$

kaayan no ma tee.

	nda zangu	woy	cindi
	4	8	5
-	3	4	
=	1	4	3

laasaabu : 485 - 342 = marje ?

affawey sorraa: 2 kan hun 5 ra;

a ga cindi 3. 3ga huru 2 cire

iwoyey sorraa: 4 kan hun 8 ra; a ga 2cindi 4; a ga huru 4 cire.

zangey sorraa: 3 kan hun 4 ra; a ga cindi 1. a ga huru 3 cire.

zaaboo 485 - 342 = 143.

furari : tasakan woyey goo nda feraw 8564. i na feraw 6342 kaa i ra ka caw hugu cin. feraw marje ka cindi i se ?

$$\begin{array}{r} 8564 \\ -6342 \\ \hline \end{array}$$

laassabu
affawey sorraa:

2 kan hun 4 ra; a ga cindi 2

2 ga huru 2 cire.
iwoyey sorraa: 4

kan hun 6 ra;

a ga cindi 2.2 ga huru 4 cire.

zangey sorraa: 3 kan hun 5 ra; a ga cindi 2. -

a ga huru 3 cire.

zenber	zangu	iwoy	cindi
8	5	6	4
- 6	3	4	2
= 2	2	2	2

zenberer sorraa: 6 kan hun 8 ra; a ga cindi 2. 2 ga huru 6 cire.

kaayan

furari : gaafirzi sekiteroo woyey hinnaa ti woy 2683. woy 1246 ka bana ka huru kondaa ra. woy marje ka cindi kaɗ mana huru kondaa ra ?

$$\begin{array}{r} 2\ 6\ 8\ 3 \\ -1\ 2\ 4\ 6 \\ \hline \end{array}$$

kaayan no ma tee :

nda
laasabu: 2683 - 1246 = marje ?
6 si hin ka hun 3 ra; kala a ma hun 13 ra. 9 ma cindi. 9 ga huru.
1 ga tonton
4 ka a ti 5.
5 ga hun 8 ra,
3 ga cindi.
2 ga hun 6 ra,
4 ga cindi.
1 ga hun 2 ra,
1 ga cindi.

zenber	zangu	iwoy	cindi
2	6	8 (1)	3
- 1	2	4 (+1)	6
1	4	3	9

zaaboo : 2683 - 1246 = 1439

timmandi :

$$\begin{array}{r} 854 \\ - 637 \\ \hline \end{array} \quad \begin{array}{r} 2460 \\ - 740 \\ \hline \end{array} \quad \begin{array}{r} 509 \\ - 145 \\ \hline \end{array} \quad \begin{array}{r} 4267 \\ - 1345 \\ \hline \end{array}$$

kaayan

aasaabu

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

caw

$$\begin{array}{r} 42 \\ - 33 \\ \hline 9 \end{array}$$

caw

laasabu

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

$$\begin{array}{r} 432 \\ - 276 \\ \hline 156 \end{array}$$

laasabu

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

$$\begin{array}{r} 2402 \\ - 573 \\ \hline 1829 \end{array}$$

timmandi

$$\begin{array}{r} 54 \\ - 26 \\ \hline \end{array} \quad \begin{array}{r} 257 \\ - 88 \\ \hline \end{array} \quad \begin{array}{r} 6875 \\ - 1977 \\ \hline \end{array} \quad \begin{array}{r} 6485 \\ - 3846 \\ \hline \end{array}$$

filla

furari : maazu alaayanoo na jii bata foo nda haabu fadda foo ka huru yoofoo ra. jiyoo day kaatibi 645, haaboo day kaatibi 285.

maazu alaayanoo na kaatibi 150 kaa nooroo ra ka hayni day, a yee ka kaatibi 236 ka naari day, a yee ka kaatibi 85 ka potoro day. marje ka cindi maazu alaayanoo se ?

hala ir ga duu nooroo cindoo kala ir ma kabu kabila hinza tee. ijinaa ti tontonyan kan ga ir noo nooroo hinnaa kan duwandi, ihinkaatoo ti tontonyan kan ga ir noo nooroo hinnaa kan fatta, ihinzantoo ti kaayan kan ga nooroo kan fatta kaa woo kan huru ra.

kabu kabila jinaa : nooroo kan duwandi dimmaa mana ti kala kaatibi 645 + 285 =
kaatibi 645 + 285 =
kaatibi 930

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

kabu kabila hinkantoo : nooroo kan fatta hinnaa mana ti kala :
kaatibi 150 + 236 + 85 =
kaatibi 471

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

kabu kabila hinzantoo : nooroo kan cindi hinnaa mana ti kala :
kaatibi 630 - 471 = 459

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

Zaaboo : kaatibi 459 ka cindi maazu alaayanoo se.
timmandi :

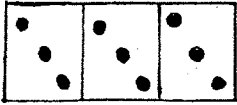
358	974	1353	490 - 345 =
- 209	+ 624	+ 6255	1730 - 695 =
=	= 406	= 406	1425 + 3200 + 56 =

taabuyan



molo 4

$$3 + 3 + 3 = 9$$



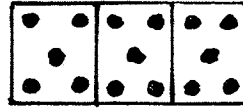
$$3 \times 3 = 9$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline = 8 \end{array}$$



molo 4

$$5 + 5 + 5 = 15$$



$$5 \times 3 = 15$$

furari : azizi na zanka 2 haaya hala i ma fangal tee nga se. zanka foo kul na fangal 34 tee. fangal marje ka tee azizi janboo ra .

nda boro baa ni ga zanka foo fangaley hinnaa tonton affaa waney ga ka duu fangaley kul hinnaa. amma boro ga hin ka zanka foo fangaley taabu nda zankey hinnaa. woo din ti taabuyan. sanda : 2 kan 34 na taabu = marje no ? wala $34 \times 2 =$ marje ?

$$\begin{array}{r} 34 \\ \times 2 \\ \hline = \end{array}$$

Laasaabu :

affawey sorraa: 2 taabari
4 ga sawa nda 8
8 ga huru 4 cire.
iwoyey sorraa: 2 taabari
3 ga sawa nda 6
6 ga huru 3 cire.

<u>woy</u>	<u>cindi</u>
3	4
x	2
= 6	8

zaaboo : $34 \times 2 = 68$. fangal 68 ka tee

azizi se.
caw 3 5 4 29 timmandi 49 23 29

taabuyan

furari : haalidu na feraw 213
kar.a na affoo kul neere kaatibi
2.kaatibi marje no a duu a nga
ferawey ra ?

$$\begin{array}{r} 213 \\ \times 2 \\ \hline \end{array}$$

ir si hin ka kaatibi 2 tonton cere ga
hala cee 213. taabuyan no ma tee.
sanda: 2 kan 213 na taabu = marje ?
wala 213 x 2 marje ?

laasaabu :
affawey sorraa 2 taabari 3
ga sawa : :
nda 6. 6 ga huru
3 cire
iwoyey sorraa: 2 taabari
1 ga sawa

<u>zangu</u>	<u>woy</u>	<u>cindi</u>
2	1	3
x		2
= 4	2	6

nda 2. 2 ga huru 1 cire.
zangey sorraa: 2 taabari
2 ga sawa
nda 4. 4 ga huru 2 cire.
zaaboo : 213 x 2 = 426. kaatibi 426
no haalidu duu nga ferawey ra.

furari : boro 1032 bara gaaboy
ra.boro foo kul na kaatibi 3 bana
potoro hay cawoo se. kaatibi
marje ka duwandi ?

$$\begin{array}{r} 1032 \\ \times 3 \\ \hline \end{array}$$

taabuyan no ma tee.
laasaabu
affawey sorraa: 3
taabari 2 ti 6.
6 ga huru 2 cire

iwoyey sorraa: 3 taabari 3 ti 9.
9 ga huru 3 cire.
zangey sorraa: 3 taabari 0 ti 0.
0 ga huru 0 cire.

zenberey sorraa: 3 taabari 1 ti 3
3 ga huru 1 cire.
zaaboo: 1032 x 3 = 3096. nooroo kan
duwandi hinnaa ti
kaatibi 3096.

<u>zenber</u>	<u>zangu</u>	<u>iwoy</u>	<u>cindi</u>
1	0	3	2
x			3
= 3	0	9	6

timmandi :

$$\begin{array}{r} 432 \\ \times 2 \\ \hline \end{array} = \begin{array}{r} 2310 \\ \times 3 \\ \hline \end{array} = \begin{array}{r} 1202 \\ \times 4 \\ \hline \end{array} = \begin{array}{r} 2100 \\ \times 4 \\ \hline \end{array}$$

taabuyan

furari : iwoyey kondaa na goykaw-ize 7 zaa kan affoo kul i na fangal-ize 7 tee a ra. fangal-ize foo kul i na tamaati kore 7 duma a ra.

- 1- marje ti fangaley hinnaa ?
- 2- marje ti fangal-izey hinnaa ?
- 3- marje ti tamaati korey hinnaa ?

taabuyan no ma tee hala cee 3.

laasaabu
ijinaa ga kate fangaley hinnaa.
fangal 7 x 7 = marje (kabu-izey taaburoo guna banda 50 ga) 7x7 = marje ?

$$\begin{array}{r} 7 \\ \times 7 \\ \hline = 49 \end{array}$$

ihinkantoo ga kate fangal-ize hinnaa fangal 49 x 7 = fangal-ize marje ?
7 taabari 9 ti 63. kabu-ize hinka no kan si hin ka huru sorro follokaa ra. 3 ga huru affawey

sorraa ra 6 ga lanbandi jina a ga ti tonton -iwoyey taabandoo ga.

$$\begin{array}{r} \times 7 \\ \hline = +6 \\ 3 \text{ () } 4 \text{ (6) } 3 \end{array}$$

iwoyey sorraa : 7 taabari 4 ti 28. 6 ga tonton

28ka a ti 34. 4ga huru 4 cire; jina 3 ma huru a jine zangey sorraa ra.

zaaboo : 49x7 = 343. fangal-izey hinnaa ti 343 3 4 3

$$\begin{array}{r} \times 7 \\ \hline +2+3+2 \\ 2 \text{ (2) } 4 \text{ (3) } 0 \text{ (2) } 1 \end{array}$$

ihinzantoo ga kate tamaati korey hinnaa. fangal-izey 343x7 = tamaati kore marje?
affawey sorraa : 7 taabari 3 ti 21. 1 ga huru, 2 ga lanba.

iwoyey sorraa : 7 taabari 4 ti 28. lanbareo ga huru a ga ka a ti 30. 0 ga huru, 3 ga lanba
zangey sorraa : 7 taabari 3 ti 21. lanbareo ga huru a ga ka a ti 24. 4 ga huru, jina 2 ma huru a jine zenberey sorraa ra.

zaaboo : 343 x 7 = 2401. tamaati korey hinnaa ti : 2401.

timmandi :

	5	63	456	812
	x 4	x 6	x 5	x 3
	-----	-----	-----	-----
=	=	=	=	=

taabuyan

furari : boosu na ɗari poti 124 neere kan affoo kul hayoo ti kaatibi 32. kaatibi marje ma hima ka duwandi ɗaroo ra ?

taabuyan no ma kate ɗaroo hayoo.

poti $124 \times 32 =$ marje ?

laasaabu : kabu-ize

2 bara taabukaa rakala affoo kul taabantaa kabu-ize taabu

affawey sorraa:

2 taabari 4 ti 8.

8 ga huru 4 cire.

iwoyey sorraa: 2 taabari 2 ti 4.

4 ga huru 3 cire.

zangey sorraa: 2 taabari

1 ti 2, 2 ga huru 1 cire.

	zenber	zangu	iwoy	cindi
		1	2	4
x			3	2
		2	4	8
+ 3		7	2	
3		9	6	8

sojo ni ga zaa woo kan goo iwoyey se taabukaa ra.

3 taabari 4 ti 12. 2 ga huru iwoyey sorraa ra 4 cire; 1 ga lanba.

3 taabari 1 ti 3. 3 ga huru zenberey sorraa ra. a cindi taabandey kan duwandi tontonyanoo cere ga.

8 kan cire haya kul sii ga zunbu affawey sorraa ra.

iwoyey sorraa: 4 nda 2 ga sawa nda 6. 6 ga huru 2 cire.

zangey sorraa: 2 nda 7 ga sawa nda 9. 9 ga huru 7 cire.

zenberey sorraa: 3 kan haya kul mana huru 1 ga ga zunbu 3 cire.

zaaboo: $124 \times 32 = 3968$. kaatibi 3968 ka duwandi ɗaroo ra.

timmandi :

$$\begin{array}{r}
 432 \\
 \times 12 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 5304 \\
 \times 23 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 3210 \\
 \times 41 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 863 \\
 \times 32 \\
 \hline
 \end{array}$$

fiisa na albasar kilo 114 day
yooboo ra .kilo foo kul hayoo ti
kaatibi 90. marje no fiisa

na bana albasaroo kul se ?

a yee ka albasaroo neere kaatibi
105. marje ti neere hayoo kul ?

kilo foo day hayoo no ma kilo 114 taabu ka
kate day hay timmantaa kilo 114 x 90 =
marje ?

laasaabu :

o taabari 4 ti 0. 0 ga huru 4 cire	1 1 4
<u>affawey sorraa ra.</u>	x 9 0
o taabari 1 ti 0. 0 ga huru 1 cire	0 0 0
woyey sorraa ra.	+ 1 0 2 6
o taabari 1 ti 0. 0 ga huru 1 cire	= 1 0 2 6 0
zangey sorraa ra.	

ma 9 zaa kan goo taabukaa ra iwoyey
sorraa ra.

9 taabari 4 ti 36. 6 ga huru 9 cire iwoyey
sorraa ra.

9 taabari 1 ti 9. 3 ga tonton a ga ka a ti 12.
2ga huru 1 cire,

zangey sorraa ra, 1 ga lanba.

9 taabari 1 ti 9. 1 ga tonton a ga ka a ti 10. 0
ga huru zenberey

sorraa ra ; 1 ga huru a jine zenber woyey
sorraa ra.

zaaboo : day hayoo ti : 114 x 90 =
kaatibi 10260.

kilo foo neere hayoo no ma kilo 114 taabu ka
kate neere hay
timmantaa kilo 114 x 105 = marje ?

laasaabu :

5 taabari 4 ti 20. 0 ga huru 4 cire	1 1 4
2 ga lanba	
5 taabari 1 ti 5. lanbaroo ga tonton	x 1 0 5
a ga ka a ti 7.	
5 taabari 1 ti 5. a ma huru	
zangey sorraa ra.	= 5 7 0

ma 0 zaa kan goo taabukaa ra iwoyey
sorraa ra.

o taabari 4 ti 0. 0 ga huru iwoyey
sorraa ra.

o taabari 1 ti 0. 0 ga huru zangey

sorraa ra. 0 taabari 1 ti 0. 0 ga huru
zenberey sorraa ra.

ma 1 zaa kan goo taabukaa ra
zangey sorraa ra.

1 taabari 4 ti 4. 4 ga huru zangey sorraa ra.

1 taabari 1 ti 1. 1 ga huru zenberey sorraa ra.

1 taabari 1 ti 1. 1 ga huru zenber woyey sorraa
ra.

taabantey ma tonton cere ga.

zaaboo : neere hayoo ti : 114 x 90 = kaatibi
11970.

taabuyan

furari : hoolugungu borey ga baa ngey ma hugu boobo cin kan koyraa kul ga i mayray.woo se i na kangaw bundu 1032 day. kangaw bundu foo kul hayoo ti kaatibi 574. marje ti kangawey kul hayoo ?

taabuyan no ma tee.
 kaatibi 57 4 x 1032 = marje ?

$$\begin{array}{r} 1032 \\ \times 574 \\ \hline \end{array}$$

wala : 1032 x 574 = marje ?

laasaabu :

1 0 3 2

4taabari 2 ti 8
 4 taabari 3 ti 12. 2 ga huru,
 1ga lanba
 4taabari 0 ti 0 . 1
 ga tonton a ga ka a ti 1.
 4 taabari 1 ti 4 .

x 5 7 4

$$\begin{array}{r} 4 \quad 1(1)2 \quad 8 \\ 7 \quad 2(2)2(1)4 \\ \hline \end{array}$$

ma kaa 7 ga kan goo i
 woyey se taabukaa ra.
 7 taabari 2 ti 14. 4 ga huru
 iwoyey sorraa ra;
 1 ga lanba.

51(1)6(1)0

59 2 3 6 8

7 taabari 3 ti 21. 1 ga tonton a ga ka a ti 22.
 2 ga huru zangey sorraa. 2 ga lanba.
 7 taabari 0 ti 0. 2 ga tonton a ga ka a ti 2.
 a ga huru zenberoy sorraa ra.
 7 taabari 1 ti 7. a ga huru zenber woyey sorraa ra

ma kaa 5 ga kan goo zangey se taabukaa ra.
 5 taabari 2 ti 10. 0 ga huru zangey sorraa 1 ga lanba.

5 taabari 0 ti 15. 1 ga tonton a ga ka a ti 16. 6 ga huru zenberoy sorraa ra ; 1 ga lanba.

5 taabari 0 ti 0. 1 ga tonton a ga ka a ti 16. 6 ga huru zenber woyey sorraa ra.

5 taabari 1 ti 5. 5 ga huru zenber zangey sorraa ra.

ma taabandey tonton cere ga duu dimmaa.

zaaboo : 1032x 574 = 592 368. kangawey kul hayoo ti kaatibi 592 368.

taabuyan

furari : saafiyatu goo nda kaatibi 2500 kan, a duu cy nga tarmawey ra. a yee ka konbitar kilo 124 neere kan kilo foo kul hayoo ti kaatibi 62.
marje ti nga nooroo kul?
saafiyatu na kaatibi 4750 kaa nooroo ra ka hunay day. marje ma cindi a se ?

$$\begin{array}{r} 124 \\ \times 62 \\ \hline 248 \\ + 7(1)4(2)4 \\ \hline = 7688 \end{array}$$

kabu kabila hinza no ma tee hala saafiyatu nooroo cindoo ga duwandi. ijinaa ti taabuyan kan ga kate konbitaroo kul hayoo.

laasaabu :

kaatibi 62 x 124 = marje ? =

wala : 124 x 62 = marje ?

zaaboo : 124 x 62 = kaatibi 7688

$$\begin{array}{r} +1 \\ 2500 \end{array}$$

ihinkantoo ti tontonyan kan ga kate nooroo kul hinnaa kan saafiyatu ga a may.

$$+ 7688$$

laasaabu :

kaatibi 2500 + 7688 = marje ?

$$= 10(1)188$$

zaaboo : kaatibi 2500 + 7688 = 10188.

ihinzantoo ti kaayan kan ga hinnaa cebe kan cindi saafiyatu se hunaa daymaa banda ga.

$$10(1)188$$

laasaabu :

kaatibi 10188 - 4750 = marje ?

$$- (1)4+1750$$

$$= 05438$$

zaaboo : kaatibi 10188 - 4750 = 5438

saafiyatu nooroo cindoo mana ti kala kaatibi 5438

furari : zayna na nga duuri poti 105 neere.

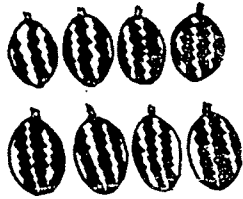
poti foo kul neere hayoo ti kaatibi 40. izoo na kaatibi 3780 sanba a se.

marje ti zayna nooroo kul cere ra

a na kaatibi 4635 kaa nooroo ra ka alkaasi bana.

marje ka cindi zayna se ?

zemnayan



moli 8

8	2
0	= 4



$8 : 2 = 4$

furari : yuuni woyey duu soo 7 kan i na i zemna ngey saddiṅa hinkaa se boṅay-boṅay. soo marje no saddiṅa foo kul ga duu ; marje ma cindi ?

zemnayan no ni ga tee ka duu saddiṅa foo kul bagaa

7	2
- 6	3
1	

laasaabu :

7 kan ti zernantaa no ni ga a zemna nda 2 kan zernakaa

7 zemnanta 2 ti 3. 3 ga huru 2 cire. 3 ga 2 taabu ka kate 6.

6 ga hun 7 ra, 1 ga cindi.

zaaboo : $7 : 2 = 3,1$ ga cindi. saddiṅa foo kul ga duu soo 3,1 ga cindi.

feraw 45 ga hima ka zemna tuuri guusu 3 game ra. marje no ma kay tuuri guusu foo kul se ?

laasaabu :

4 kan goo iwoyey sorraa ra kabe wawaa here no ma zemna 3 game ra. ni ga duu 1. cindoo ga huru 3 cire.

45	3
- 3	15
15	
- 15	
00	

5 kan goo affawey sorraa ra ga zunbu 1 duma ga ka a ti 15.

15 ga zemna nda 3. 15 zemnari 3 ti 5.

5 taabari 3 ti 15. 15 woo ga hun 15 ra kan goo 3 cire.

a ga cindi 00.

zaaboo : $45 : 3 = 15$. guusu foo kul ga duu feraw 15,0 ga cindi.

timmandi :

9	3	20	2	63	3	87	4
=		=		=		=	

zamnayan

furari : arwasu 3 na maazu ferawey ganandi a se hala i ben. maazu na i noo kaatibi 695 kan a nee i ma i zemna cere game ra. marje no arwasu foo kul ga duu ?

zamnayan no ir ga a tee ka duu arwasu foo kul bagaa kaatibi 695 zemnari 3 ga sawa nda marje ?

wala : $695 : 3 = \text{marje ?}$

laasaabu :

zamnaka kabu-izoo kan goo

kabe wawaa

here no ni ga a zaa.

6 no.

6 zemnari 3 ti 2. 2 ga huru 3 se ganda

-kabe gumaa here. 2 ga

3 taabu ka ti 6.

6 ga hun 6 ra kabe wawaa

here. a ga

cindi 0. 0 ga huru 6 cire.

ma 9 zaa ka a zumandi 0

se kabe gumaa here.

9 ma zemna 3 game ra. woo ti 3. 3 ga huru

-2 dumaa ga, jina a ma beene 3 taabu. woo ti

9.9 ga hun 9 ra. 0 no ma cindi. 0 ma huru 9

cire.

ma 5 zaa ka a zumandi 0 dumaa ga.

5 zemnari 3 ti 1. 1 ga beene 3 taabu ka kate 3.

3 ga hun 5 ra. 2 ga cindi. 2 ga huru 3 cire.

zaaboo : kaatibi $695 : 3 = 231$; 2 ga cindi.

arwasu foo kul ga duu kaatibi 231, kaatibi 2

ga cindi.

timmandi :

$$\begin{array}{r|l} 556 & 5 \\ \hline & = \end{array} \quad \begin{array}{r|l} 482 & 2 \\ \hline & = \end{array} \quad \begin{array}{r|l} 397 & 3 \\ \hline & = \end{array} \quad \begin{array}{r|l} 97 & 7 \\ \hline & = \end{array}$$

$$\begin{array}{r|l} 695 & 3 \\ \hline -6 & = 231 \\ \hline 09 & \\ \hline -9 & \\ \hline 05 & \\ \hline -3 & \\ \hline 2 & \end{array}$$

zamnayan

furari : konday foo sekiter 6 duu hayni ton 276. sekiterey kul bagaa ga hima ka sawa.

marje no affoo kul ga hima ka duu ?

zamnayan $276 : 6 = \text{marje ?}$

laasaabu :

2 ti kabu-ize jinnaa kan goo

kabe wawaa

here. 2 si hin ka zemna

6 game ra.

adisi kabu-ize hinka no

ni ga i zaa.

woo ti 27.

27 kan zemna halA ce 6 ga kate 4

4 taabari 6 ti 24.

24 kan hun 27 ra, a ga cindi 3.

3 ga huru 4 cire kabe wawaa here

6 ga zunbu 3 dumaa ga ka a ti 36.

36 ga hun 36 ra ; 00 ga cindi.

00 ga huru 36 cire.

$$\begin{array}{r|l} 276 & 6 \\ \hline -24 & = 46 \\ \hline 36 & \\ \hline -36 & \\ \hline 00 & \end{array}$$

zaaboo : ton $276 : 6 = 46$.

ton 46 no sekiter foo kul ga duu a.

timmandi :

$$\begin{array}{r|l} 132 & 4 \\ \hline & = \end{array} \quad \begin{array}{r|l} 688 & 8 \\ \hline & = \end{array} \quad \begin{array}{r|l} 425 & 5 \\ \hline & = \end{array} \quad 337 : 4 =$$

zemnayan

furari : arbonkaana goo nda moo mudu 468 kanj goo fadda 13 ra.
moo mudu marje bara fadda foo kul ra?

zemnayan : $468:13 = ?$

laasaabu
 kabu-ize hinka ti 13, kanj ti zemnakaa adisi kadi-ize hinka no ma zandi
 zemnanta ra.woo ti 46.
 46 kanj zemna 13 game ra ga sawa
 nda marje?
 nda ni na 4 zaa ka a taabu
 nda 13
 ni ga duu 52. a si hin ka hun 46 ra.
 adisi ma 3 zaa . $3 \times 13 = 39$ ga
 huru 46 cire ka hun a ra. a ga cindi 7
 7 ga huru 9 cire ; jina ni ga 8 zumandi dumaa ga.
 ni ga duu 78.78 ga zemna 13 game ra.
 nda ni na 5 zaa ka a taabu nda 13 ni ga duu 65.
 65 ga hun 78 ra hala 13 ga cindi . 13 binde ga hin ka zemna 13 game ra.
 adisi ma 6 zaa ka a taabu nda 13. $6 \times 13 = 78$.
 78 ga hun 78 ra, 0 ga cindi.

$$\begin{array}{r} 468 \quad | \quad 13 \\ -39 \quad | \quad 36 \\ \hline 78 \\ -78 \\ \hline 00 \end{array}$$

zaaboo: $468:13 = 36$.

fadda foo kul mudu 36 bara a ra.

timmandi:

$$\begin{array}{r} 453 \quad | \quad 15 \\ \hline \end{array} \quad \begin{array}{r} 932 \quad | \quad 22 \\ \hline \end{array} \quad \begin{array}{r} 874 \quad | \quad 17 \\ \hline \end{array}$$

boro 12 waafaku ka gaaru foo day kaatibi 2500.
marje no boro foo kul na bana?

zamnayan: $2500:12 = \text{marje?}$
laasaabu:

12 : kabu- ize hinka no
 adisi kabu-ize hinka ma zandi kabe wawaa here . woo ti 25.
 25 zemnari 12 ti 2.
 $2 \times 12 = 24$.
 24 kanj hun 4 cire . ma o jinaa zaa ka a zumandi 1 dumaa here ga.
 a ga ti 10. 10 si hin ka zemna 12 game ra.
o ga huru 2 dumaa ga kabe gumaa here.
 ma 0 hinkantoo zaa ka zumandi 10 dumaa ga.
 a ga ti 100.
 100 zemnari 12 ti marje.
 nda ni na 7 zaa ka a taabu nda 12, ni ga duu 84.
 $100 - 84 = 16$. 16 boobo nda 12. adisi 7 ga kacca.
 9 da ga boobo zama $9 \times 12 = 108$. 108 bisa 100.
 8 no ma huru 0 dumaa ga kabe gumaa here.
 $8 \times 12 = 96$ ga. 96 ga hun 100 ra, ga cindi 4.
 4 ga huru 6 cire.

$$\begin{array}{r} 2500 \quad | \quad 12 \\ -24 \quad | \quad = 208 \\ \hline 100 \\ -96 \\ \hline 004 \end{array}$$

zaaboo : $2500 : 12 = 208 ; 4$ ga cindi.
 boro foo kul ga kaatibi 208 bana gaaroo se!
 kaatibi 4 a cindi kanj ga hima ka banandi.

timmandi : $4530 \quad | \quad 15 \quad 9366 \quad | \quad 23 \quad 6900 \quad | \quad 14$

$$\begin{array}{r} 4530 \quad | \quad 15 \\ \hline \end{array} \quad \begin{array}{r} 9366 \quad | \quad 23 \\ \hline \end{array} \quad \begin{array}{r} 6900 \quad | \quad 14 \\ \hline \end{array}$$

$8124 : 16 =$ $7425 : 22 =$

zemnayan

zali duu nga tamaati kogo poti 22
ra kaatibi 1660.
marje ti tamaati kogo poti foo ?

zemnayan : kaatibi 1660 : 22 = marje ?

laasaabu :

kabu-ize hinka bara zemnaka se. woo din se
kabu-ize hinka

no ni ga a zaa zemnanta mo ra. woo ti 16.

amma 16 si

hin ka zemna 22 game ra.

adisi ma kabu-ize hinza zaa

zamnanta ra

woo ti 166.

$$\begin{array}{r|l} 1660 & 22 \\ -154 & \hline \hline & =75 \end{array}$$

166 kan zemna 22 game ra

ga sawa nda marje ?

nda ni na 6 zaa ka a taabu

- nda 22 ni ga duu

132. 132 kan

hun 166 ra a ga cindi 34. adisi

6 ga kacca.

7 zaa. $7 \times 22 = 154$ kan

hun 166 ra a ga cindi 12. 12 ga huru 154 cire.

ma 0 zumandi 12 dumaa ga ka a ti 120.

120 zemnari 22 ga hin ka kate $5 \times 22 =$

110.

110 kan hun 120 ra a ga cindi 10.

10 ga huru 110 cire.

zaaboo : $1660 : 22 = 75$. tamaati kogo poti

foo hayoo ti

kaatibi 75. a ga cindi kaatibi 10 kan duwandi

tamaati buuna-buunayan ra.

lakkal dan : waati kul kan ni dii kan

zamnaka kabu-ize

hinka bisa zamnanta kabu-ize hinka kan

ni na i zaa

kul ma zamnanta kabu-izey ti ihinka.

timmandi :

$$\begin{array}{r|l} 216 & 23 \\ \hline & = \end{array} \quad \begin{array}{r|l} 4562 & 36 \\ \hline & = \end{array} \quad \begin{array}{r|l} 1040 & 15 \\ \hline & = \end{array} \quad \begin{array}{r|l} 3244 & 34 \\ \hline & = \end{array}$$

waafakayгаа kondaа duu ɲaari kilo 92000 kaɲ goo saakuyan ra. saaku foo kul tiɲaa ti kilo 100. saaku marje ka kaa waafakayгаа kondaа se ?

kilo 100 marje bara kilo 92000 ra
 kilo 92000 : 100 = marje ?

laasaabu :

100 kaɲ ti taabukaa kabu-ize hinza bara a ra. adisi kabu-ize hinza no ma zandi kabe wawaa here. woo ti 920.

920 zemnari 100 ga kate 9.

9 x 100 = 900. 900 kaɲ hun 920 ra. a ga cindi 20.

20 ga huru 900 cire kabe wawaa here

0 ga zunbu dumaa ga ka a ti 200.

200 : 100 = 2. 2 ga huru

9 dumaa ga.

2 x 100 = 200.

200 ga hun 200 ra kabe wawaa here.

0 ga cindi.

ma 0 koraa zaa kaɲ goo beene kabe wawaa

here ka a zumandi 0 dumaa ga.

0 si hin ka zemna cee 100. adisi 0 no ma huru 2 dumaa ga kabe guma here.

zaaboo : kilo 9200 : 100 = saaku 920.

saaku 920 bara kilo 92000 ra.

92000	100	
- 900		= 920
200		
- 200		
000		

lakkal dan : nda ni na 0 hinkaa wii kaɲ goo 1 dumaa ga zemnakaa

ra, ni yee ka 0 hinkaa wii kaɲ goo zemnantaa ra kabe wawaa

her kul ni ga duu 920.

woo din ra nda 10 ti zemnakaa, wala 100, wala 1000...

yaadawey de no ni ga i wii jina ma ngey hinnaa wii kaɲ

goo zemnantaa ra. sika sii kaɲ ni ga duu zaaboo.

timmandi :

437	10	
	=	

7349	100	
	=	

64000	100	
	=	

furari : harikaaray cindi nda konbitar kilo 54. a na kilo foo kul neere kaatibi 73. a yee ka nga gaaru foo neere kaatibi 4730. harikaaray na kaatibi 5850 kaa nooroo kul kaɗ a duu a ra muraadu se. woo kaɗ cindi a na zemna woyma hinzaa game ra. marje no woyma foo kul ga duu a ?

hala ni ga duu woyma foo kul bagaa kala ma kabu kabila taacaa kul tee.
 ijinaa ti taabuyan
 kaɗ ga ni noo
 konbitarey hayoo.
 kaatibi 73 x 54 =
 kaatibi 3942.
 konbitar kilo 54 hayoo
 ti kaatibi 3942.

$$\begin{array}{r} 73 \\ \times 54 \\ \hline 292 \\ + 365 \\ \hline = 3942 \end{array}$$

ihinkantoo ti tantonyan
 kaɗ ga ni noo
 nooroo kul kaɗ
 harikaaray duu a
 konbitaroo
 nda gaaroo ra.
 kaatibi 3942 + 4730 =
 kaatibi 8672.

$$\begin{array}{r} 3942 \\ + 4730 \\ \hline = 8672 \end{array}$$

ihinzantoo ti kaayan kaɗ ga
 ni noo nooroo
 kaɗ cindi harikaaray se
 muraadoo banda ga.
 kaatibi 8672 - 5850 =
 kaatibi 2822.

$$\begin{array}{r} 8672 \\ - 5850 \\ \hline = 2822 \end{array}$$

itaacantoo ti zemnayan kaɗ ga ni
 noo nooroo
 kaɗ wayma foo kul
 duu a.

$$\begin{array}{r} 2822 \overline{) 3} \\ - 27 \\ \hline = 940 \end{array}$$

kaatibi 2822 : 3 =
 kaatibi 940 .

$$12$$

harikaaray woyma
 foo kul duu
 kaatibi 940,
 a cindi kaatibi 2.

$$\begin{array}{r} -12 \\ \hline 02 \\ - 0 \\ \hline 02 \end{array}$$

furari: woy 12 na kaatibi zangu- zangu bana ka i dan cere ra i yee ka duu kaatibi 780 kabezaamay.
 marje ti noorey wey kul cere ra ?
 i na kaatibi 865 kaa nooroo ra ka gorgoyan day. woo kaɗ cindi i n'a noo woy talka 5 se i ma a zemna.
 marje no woy talka foo kul ga duu a ?

kabu - izey taabu daaroo

$1 \times 1 = 1$	$2 \times 1 = 2$	$3 \times 1 = 3$	$4 \times 1 = 4$
$1 \times 2 = 2$	$2 \times 2 = 4$	$3 \times 2 = 6$	$4 \times 2 = 8$
$1 \times 3 = 3$	$2 \times 3 = 6$	$3 \times 3 = 9$	$4 \times 3 = 12$
$1 \times 4 = 4$	$2 \times 4 = 8$	$3 \times 4 = 12$	$4 \times 4 = 16$
$1 \times 5 = 5$	$2 \times 5 = 10$	$3 \times 5 = 15$	$4 \times 5 = 20$
$1 \times 6 = 6$	$2 \times 6 = 12$	$3 \times 6 = 18$	$4 \times 6 = 24$
$1 \times 7 = 7$	$2 \times 7 = 14$	$3 \times 7 = 21$	$4 \times 7 = 28$
$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$	$4 \times 8 = 32$
$1 \times 9 = 9$	$2 \times 9 = 18$	$3 \times 9 = 27$	$4 \times 9 = 36$
$1 \times 10 = 10$	$2 \times 10 = 20$	$3 \times 10 = 30$	$4 \times 10 = 40$

$5 \times 5 = 5$	$6 \times 1 = 6$	$7 \times 1 = 7$	$8 \times 1 = 8$
$5 \times 2 = 10$	$6 \times 2 = 12$	$7 \times 2 = 14$	$8 \times 2 = 16$
$5 \times 3 = 15$	$6 \times 3 = 18$	$7 \times 3 = 21$	$8 \times 3 = 24$
$5 \times 4 = 20$	$6 \times 4 = 24$	$7 \times 4 = 28$	$8 \times 4 = 32$
$5 \times 5 = 25$	$6 \times 5 = 30$	$7 \times 5 = 35$	$8 \times 5 = 40$
$5 \times 6 = 30$	$6 \times 6 = 36$	$7 \times 6 = 42$	$8 \times 6 = 48$
$5 \times 7 = 35$	$6 \times 7 = 42$	$7 \times 7 = 49$	$8 \times 7 = 56$
$5 \times 8 = 40$	$6 \times 8 = 48$	$7 \times 8 = 56$	$8 \times 8 = 64$
$5 \times 9 = 45$	$6 \times 9 = 54$	$7 \times 9 = 63$	$8 \times 9 = 72$
$5 \times 10 = 50$	$6 \times 10 = 60$	$7 \times 10 = 70$	$8 \times 10 = 90$

$9 \times 1 = 9$	$0 \times 1 = 0$
$9 \times 2 = 18$	$0 \times 2 = 0$
$9 \times 3 = 27$	$0 \times 3 = 0$
$9 \times 4 = 36$	$0 \times 4 = 0$
$9 \times 5 = 45$	$0 \times 5 = 0$
$9 \times 6 = 54$	$0 \times 6 = 0$
$9 \times 7 = 63$	$0 \times 7 = 0$
$9 \times 8 = 72$	$0 \times 8 = 0$
$9 \times 9 = 81$	$0 \times 9 = 0$
$9 \times 10 = 90$	$0 \times 10 = 0$