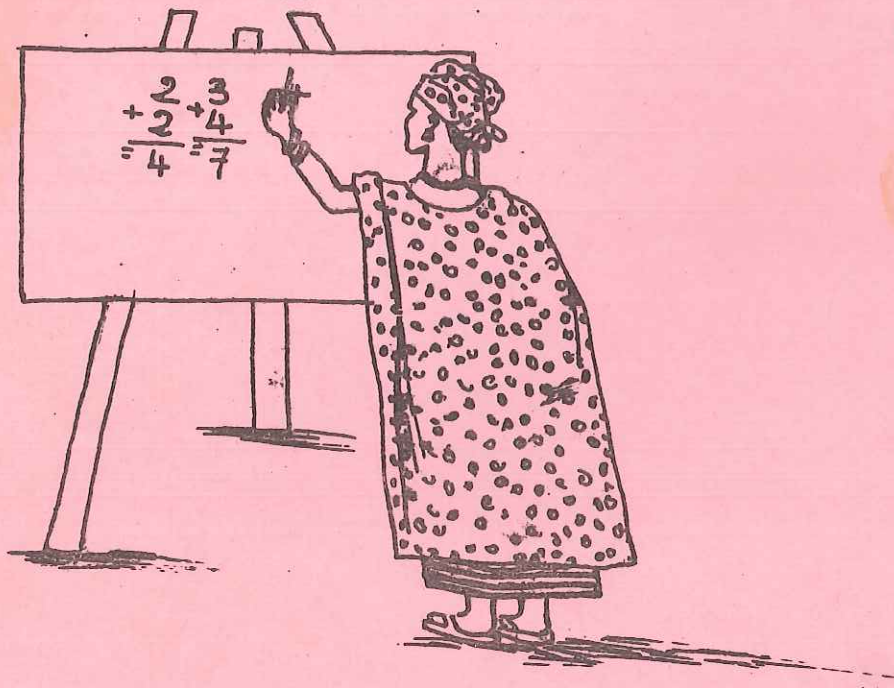


27

# bonfeeray



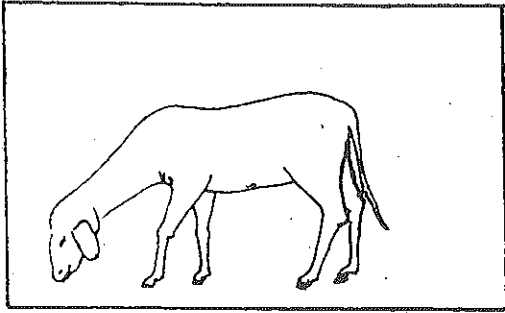
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# kabu

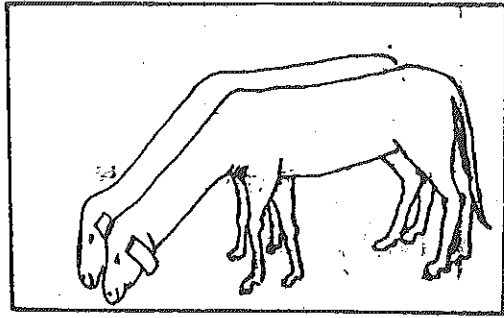
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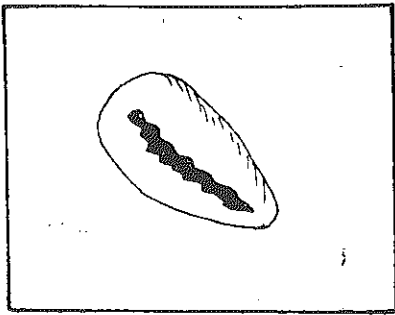
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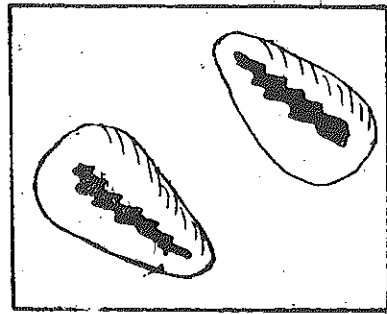
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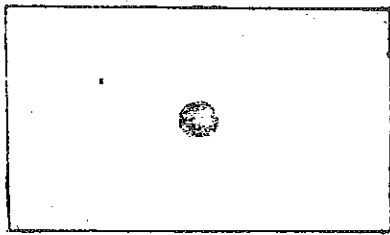
feeji 2



wali 1



wali 2

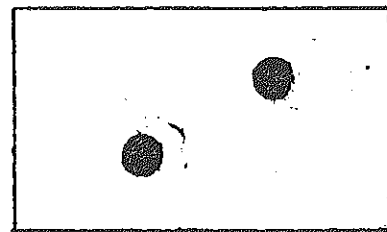


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hantum

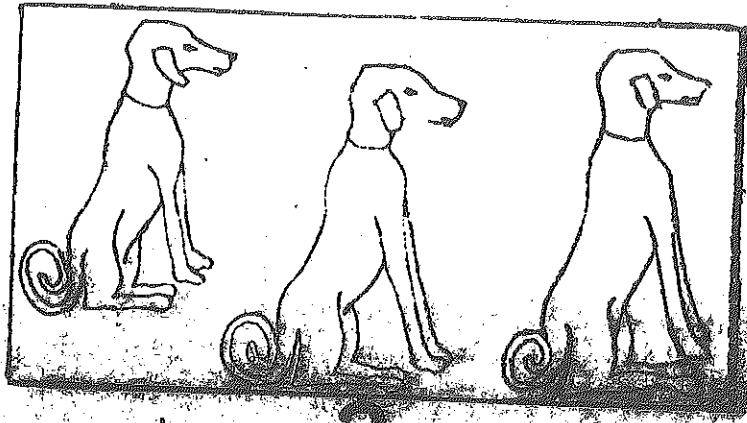
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1 2



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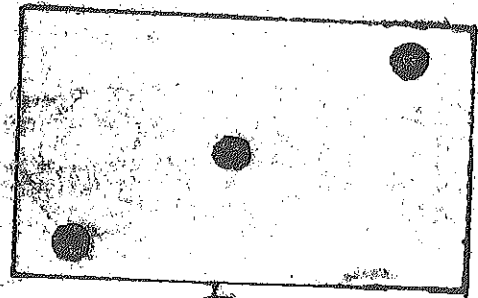
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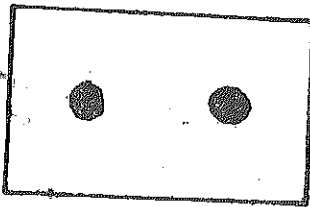
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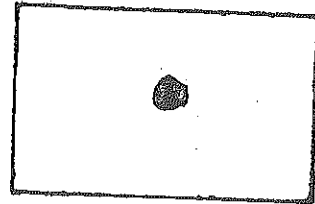
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3



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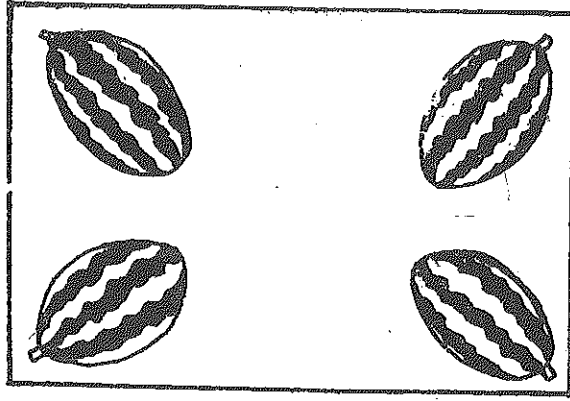
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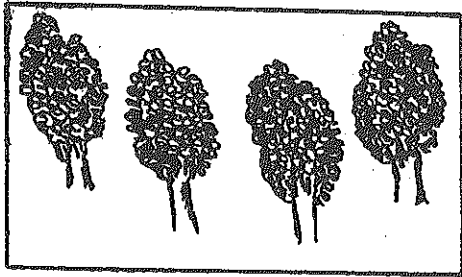
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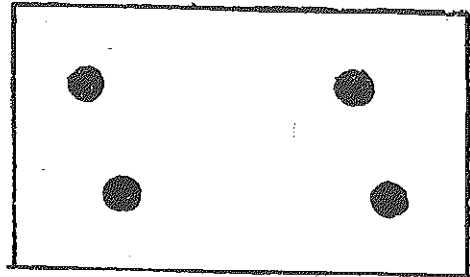
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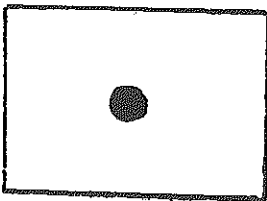
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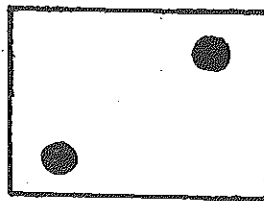
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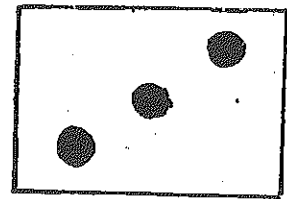
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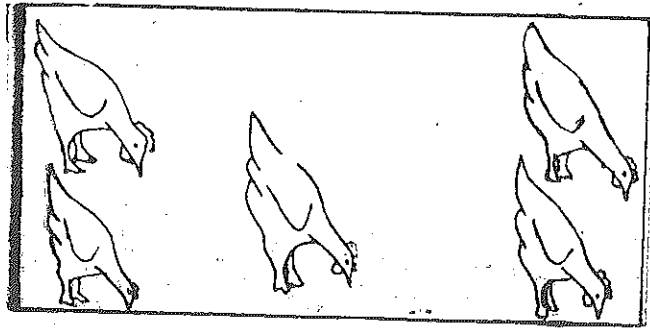
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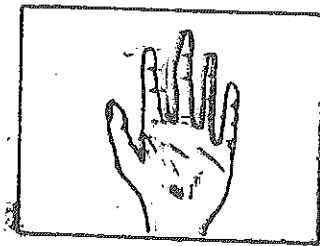
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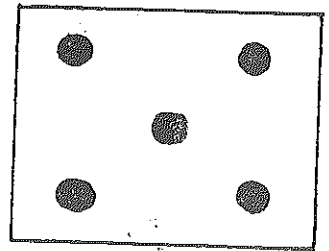
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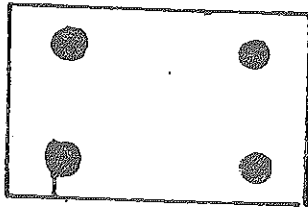
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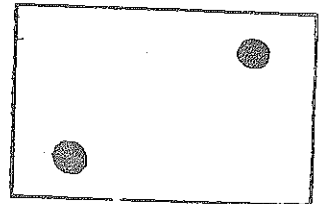
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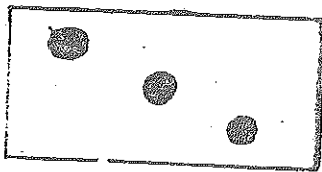
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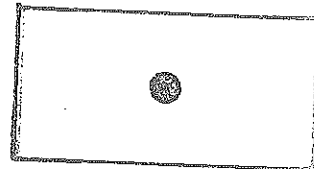
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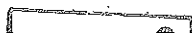
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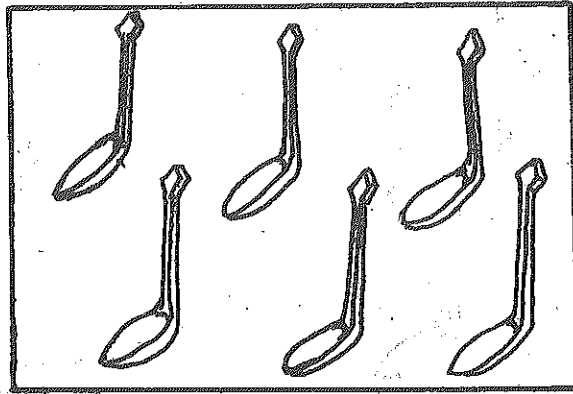
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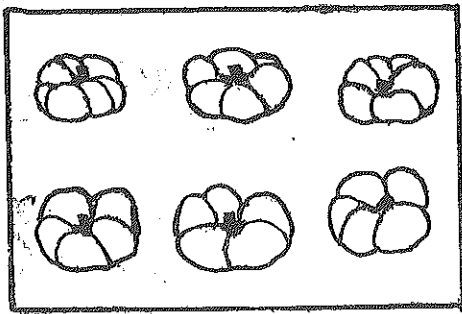
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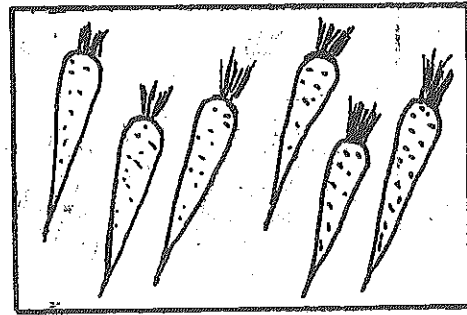
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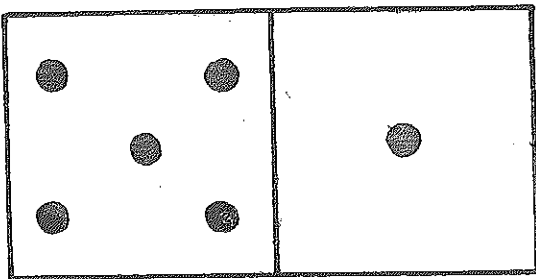
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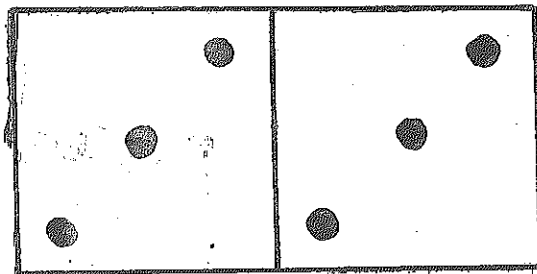
tamaati 6



karooti 6



6



6

hantum

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4 5 6

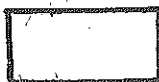
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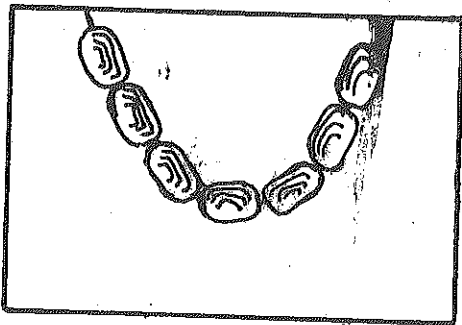


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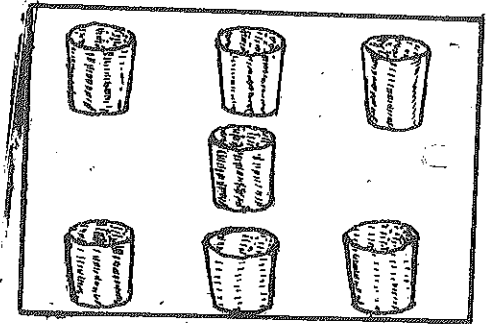
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7



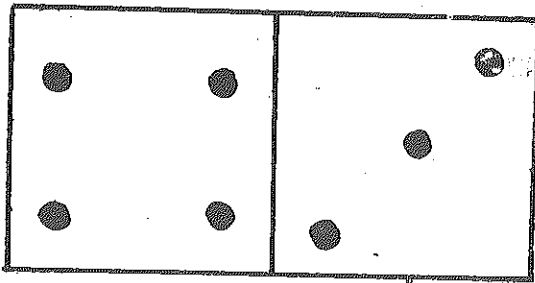
hiiri

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weyra

7



7

hantum

7

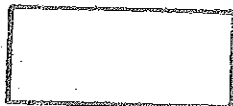
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1 2 3 4 5 6 7



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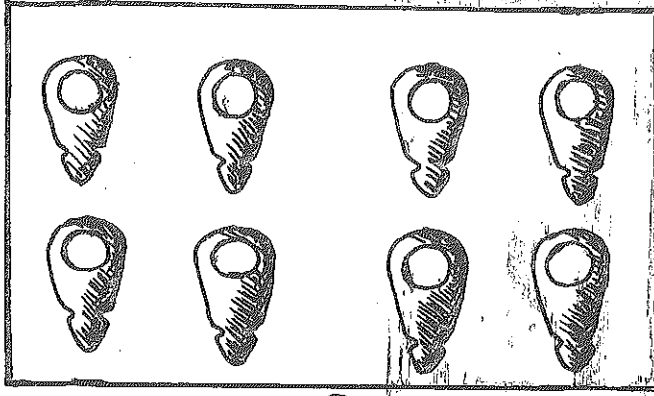


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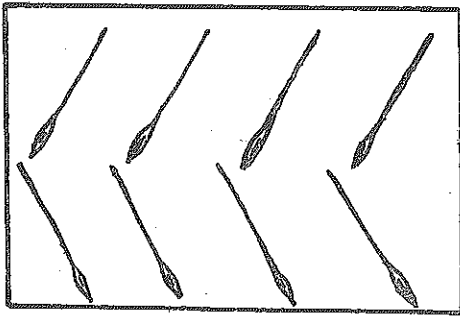


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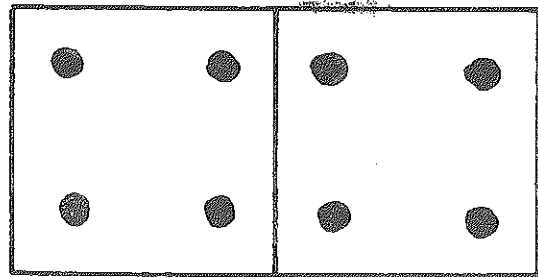
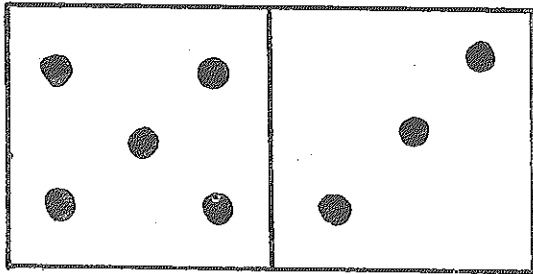
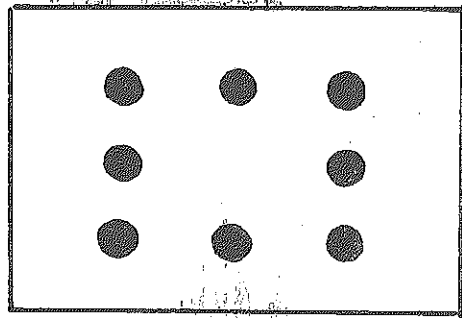
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kawla



sulba



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8

6 7

cew

3 2 4 7 8 5 1



4



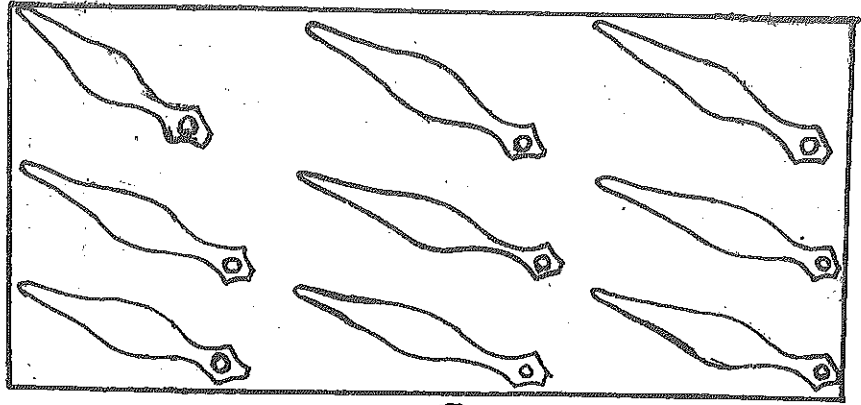
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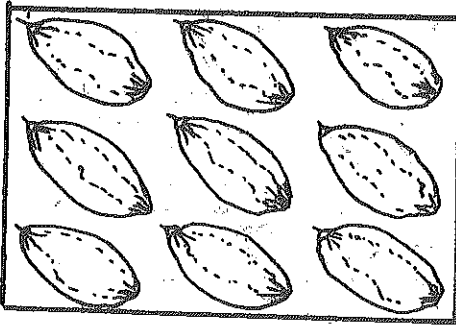


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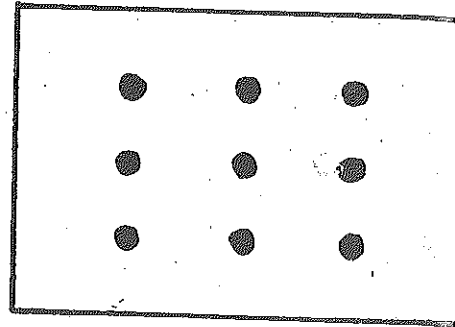
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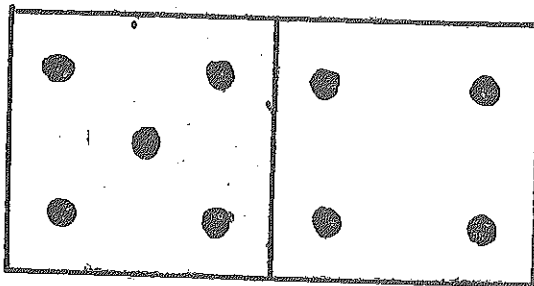


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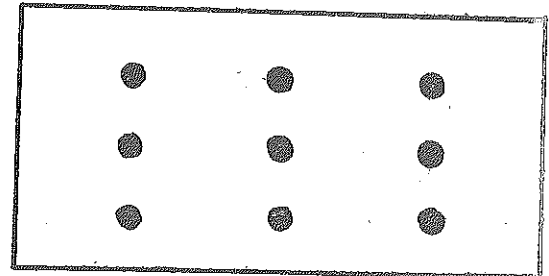
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9



9



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hantum

9

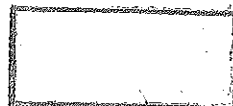
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cew

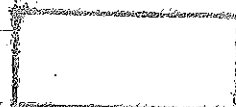
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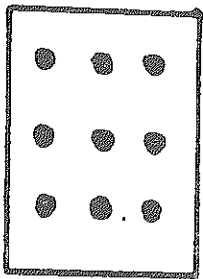
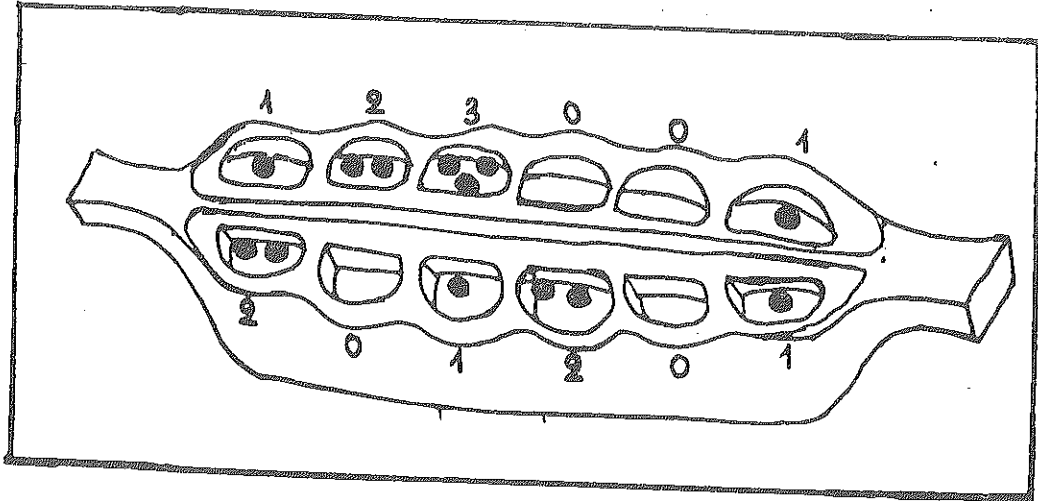


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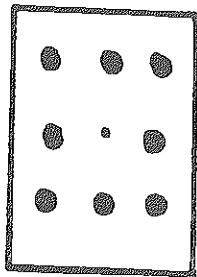


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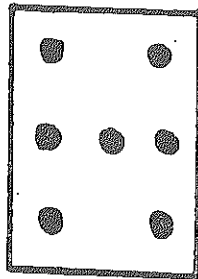
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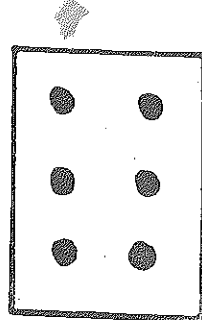
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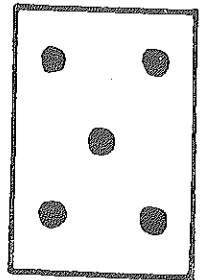
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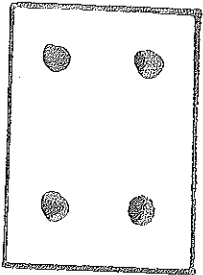
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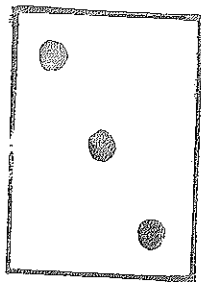
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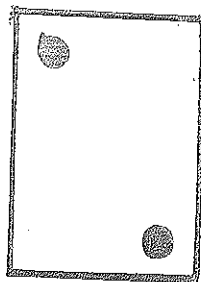
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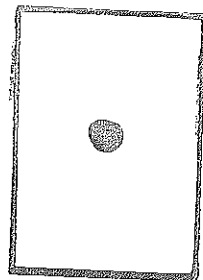
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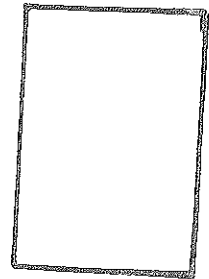
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7 8 9

0 1 2 3 4 5 6 7 8 9

filla

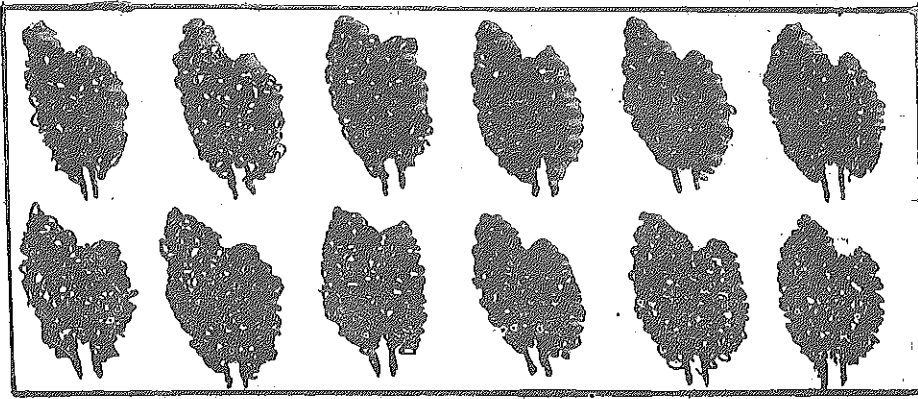
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3 4 5 6

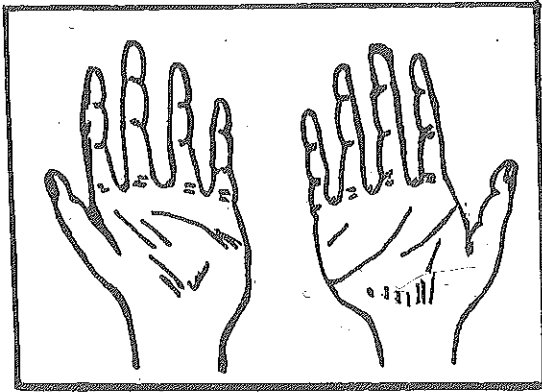
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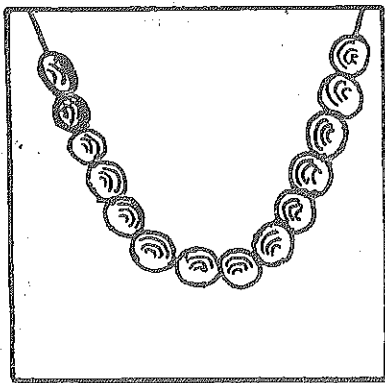
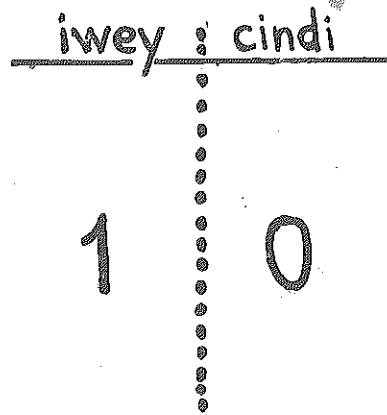
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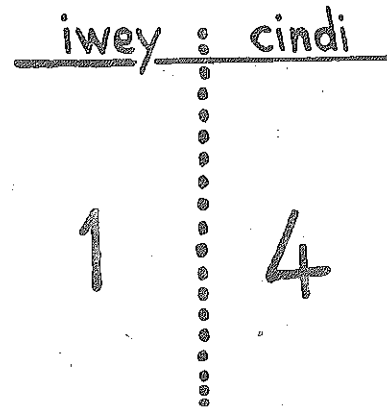
jeeni 12



kabe ize 10



hiiri wey cindi taaci (14)



iwey	afowey

cew

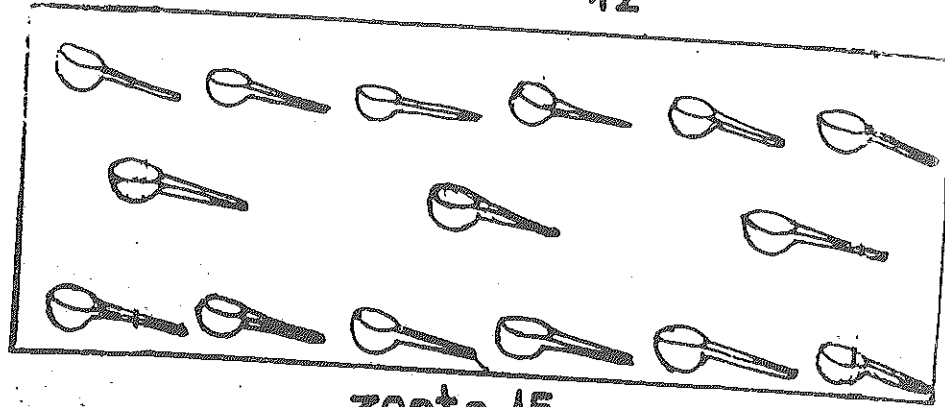
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hantum

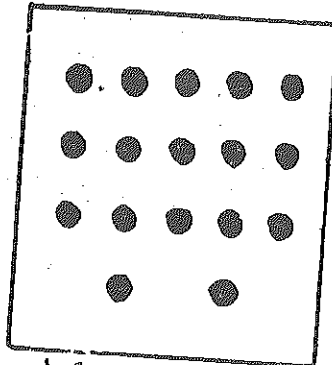
12 10 11 13



12



zooto 15

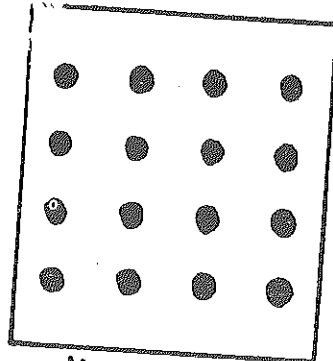


tonbi wey cindi 7

iwey : afowey

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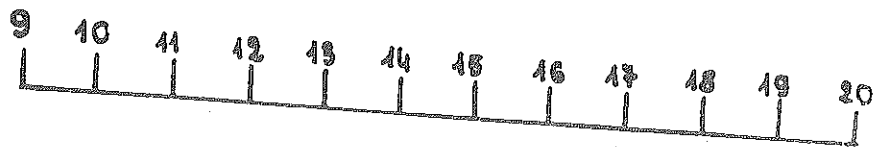


tondi wey cindi 6

iwey : afowey

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nantum

11

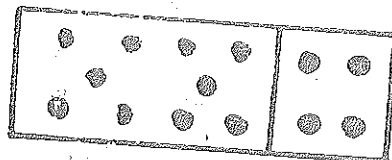
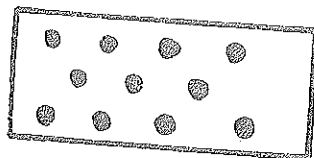
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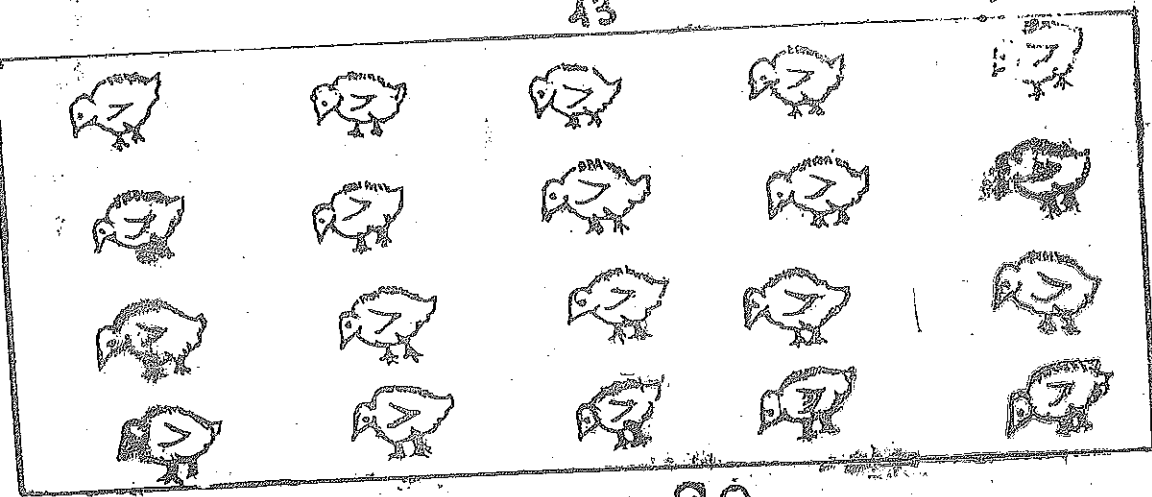
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18

tonbey hinnaa day

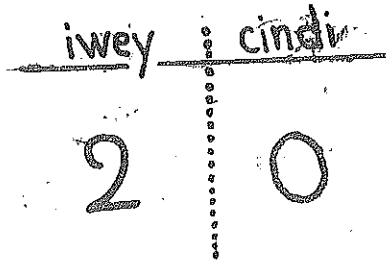


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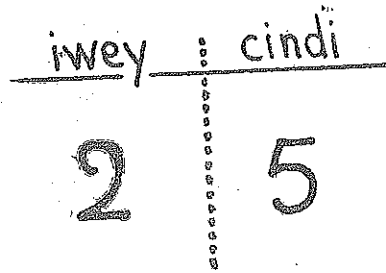
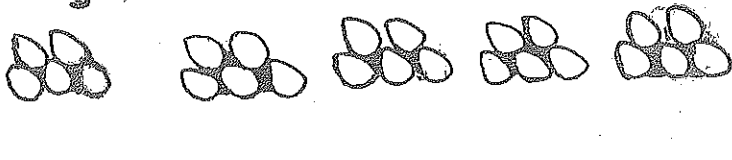


gorgoyze 20

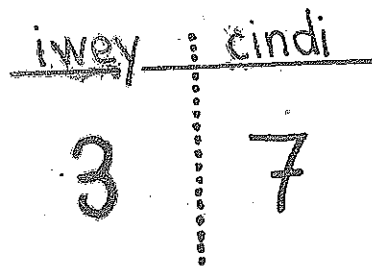
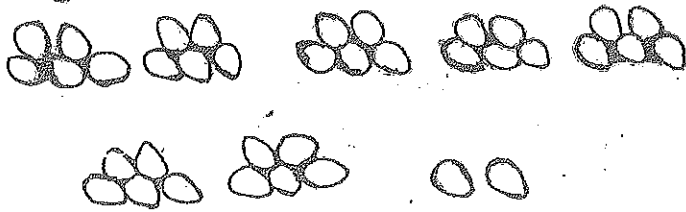
guuri waranka



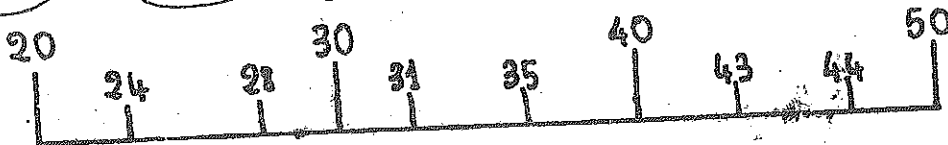
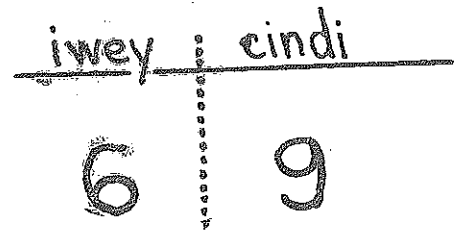
guuri waranka cindi 5



guuri waranza cindi 7



guuri wey 6 cindi 9



cew

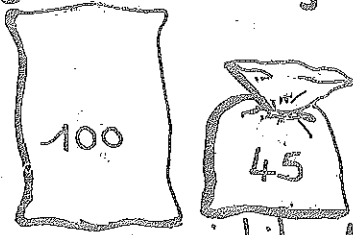
63 81 70 73 99

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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

CEW

52 - 83 - 11 - 77 - 30 - 87 - 18 - 64  
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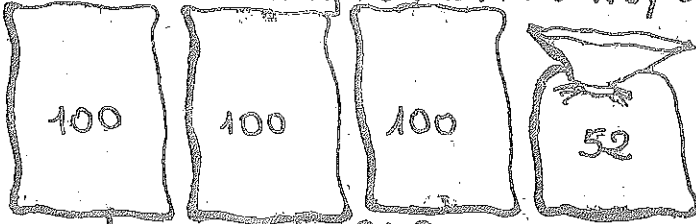
gaari kilo zangu nda kilo 45



gaari kilo 145

	nda	
<u>zangu</u>	<u>wey</u>	<u>cindi</u>
1	4	5

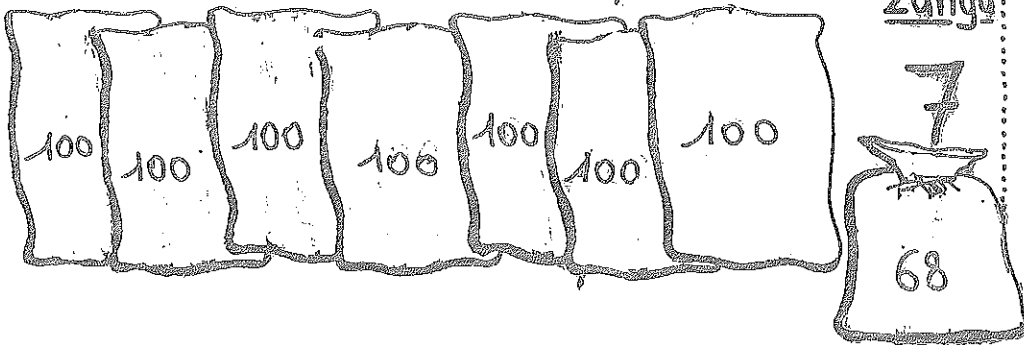
hommo kilo zangu 3 nda kilo wey 5 cindi 2



hommo kilo 352

	nda	
<u>zangu</u>	<u>wey</u>	<u>cindi</u>
3	5	2

hayni kilo zangu 7 nda kilo wey 6 cindi 8



	nda	
<u>zangu</u>	<u>wey</u>	<u>cindi</u>
7	6	8

zangey	iweyey	afowey
1	4	5
3	5	2
1	3	5

hantum

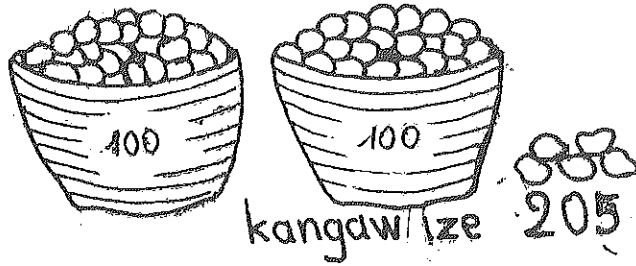
120    136    149    452    511

cew

142    560    691    237    844    392    730  
 444    618    915    519    860    910    178



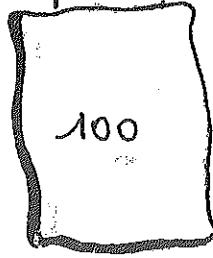
kangaw ize zangu 2 nda ize 5



zangu    wey    cindi

2    0    5

hayni kilo zangu 1

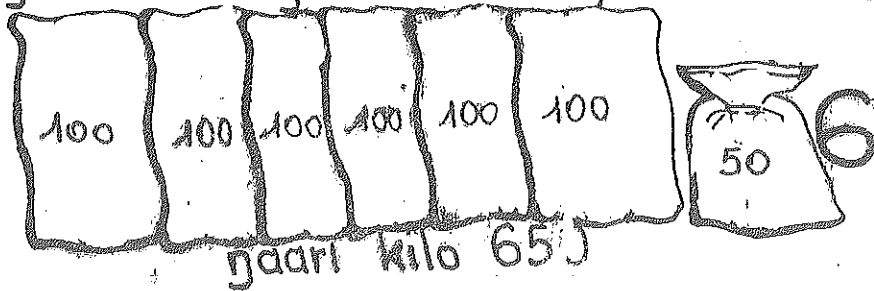


hayni kilo 100

zangu    wey    cindi

1    0    0

naari kilo zangu 6 nda kilo wey 5



naari kilo 650

zangu    wey    cindi

6    5    0

zangey	iweyey	afowey
1	0	0
2	0	5
6	5	0
8	0	9
9	9	0

100

100

207

309

990

801

100

407

500

690

707

310

209

120

809

307

580

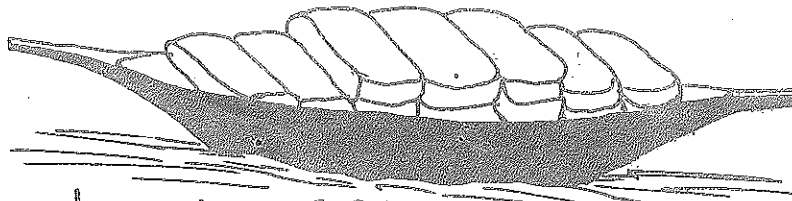
770

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  
wey 4 cindi 5

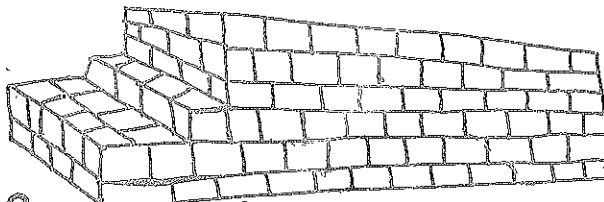


hayni kilo 2345

zenber<sup>nda</sup> zangu<sup>nda</sup> wey : cindi

2 3 4 5

feraw zenber 1 nda zangu 2 nda  
wey 6 cindi 3

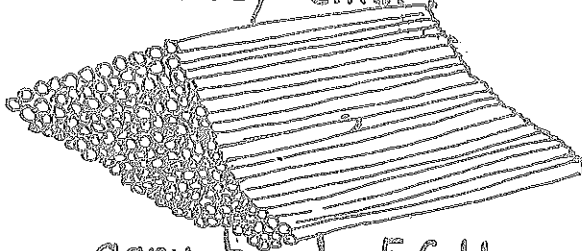


feraw 1263

zenber<sup>nda</sup> zangu<sup>nda</sup> wey : cindi

1 2 6 3

bundu zenber 5 nda zangu 6 nda  
iwey cindi 1



garu bundu 5611

zenber<sup>nda</sup> zangu<sup>nda</sup> wey : cindi

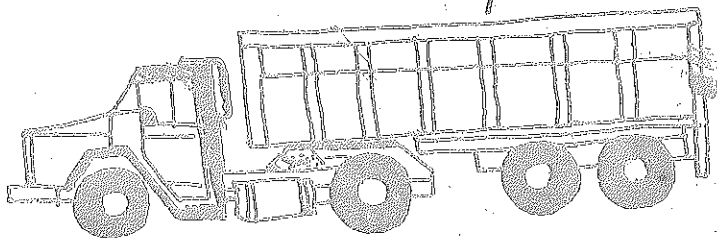
5 6 1 1

zenber	zangey	iweyey	afowey
9	2	5	3
1	2	6	3
2	3	4	5

cew

1124 . 6699 . 4321 . 7296 . 8895 . 1539 . 4713  
 3941 . 5869 . 6969 . 2696 . 7532 . 8794 . 7389  
 9999 . 4215 . 6699 . 3137 . 5256 . 7232 . 8744

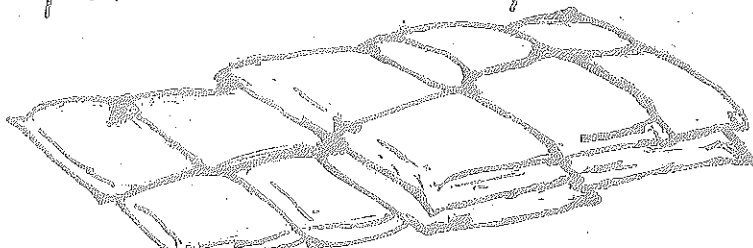
gaari kilo zenber 3 nda wey 4 cindi 5



gaari kilo 3045

zenber	<sup>nda</sup> zangu	<sup>nda</sup> wey	cindi
3	0	4	5

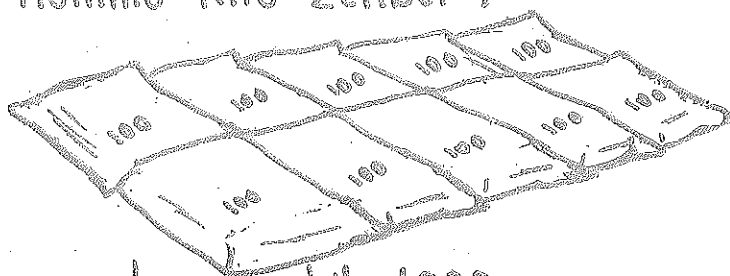
hayni kilo zenber 1 nda wey 5 cindi 7



hayni kilo 1057

zenber	<sup>nda</sup> zangu	<sup>nda</sup> wey	cindi
1	0	5	7

hommo kilo zenber 1



hommo kilo 1000

zenber	<sup>nda</sup> zangu	<sup>nda</sup> wey	cindi
1	0	0	0

zenber	zangey	iweyey	afowey
1	0	0	1
4	8	1	0
9	9	0	9

hantum

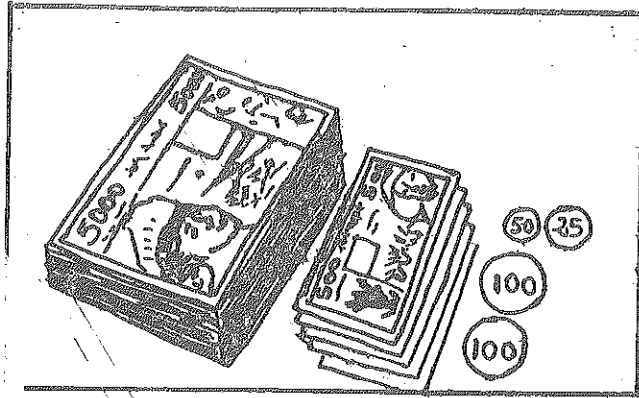
1234 . 2904 . 9700 . 6804 . 7012 . 3002

cew

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 nda wey 5  
cindi 5

zenber wey	zenber	zangu	wey	cindi
2	4	5	5	5

kaatibi 24555

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

zenber weyey	zenberoy	zangoy	iweyey	afowey
4	0	1	9	2

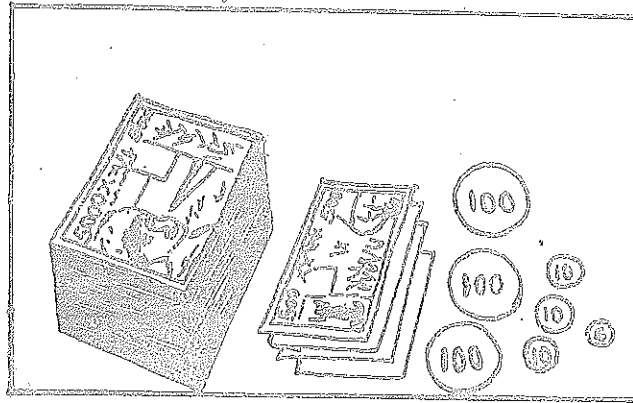
kaatibi 40192

zenber weyey	zenberoy	zangoy	iweyey	afowey
2	4	5	5	5
3	6	0	6	4
	8	5	2	3
		1	0	9

CEW

12 454 . 35050 . 46500 . 70153 . 85025

27340 . 46906 . 50259 . 90042 . 81004 . 6000



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

cew

	nda	cindi	nda	nda	
zenber zangu	zenber wey	zenber	zangu	wey	cindi
2	5	3	4	6	7

kaatibi 253 467

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

cew

	nda	cindi	nda	nda	
zenber zangu	zenber wey	zenber	zangu	wey	cindi
4	9	0	1	5	0

kaatibi 490 150.

zenber zangey	zenber lwayey	zenberwey	zangey	lweyey	afowey
2	5	3	4	6	7
8	3	0	1	5	0
1	0	5	0	9	8

cew

253 467 . 241 350 . 672 900 . 320 504 . 907 806.

490 200 . 400 521 . 824 000 . 500 000 . 300 205.

filla

zenber zangey	zenber weyey	zenberrey	zangey	iweyey	afowey
				1	8
				3	0
			1	0	9
			8	8	1
		3	6	2	0
	1	9	0	4	5
2	5	5	8	4	3
3	0	1	4	0	9
					5

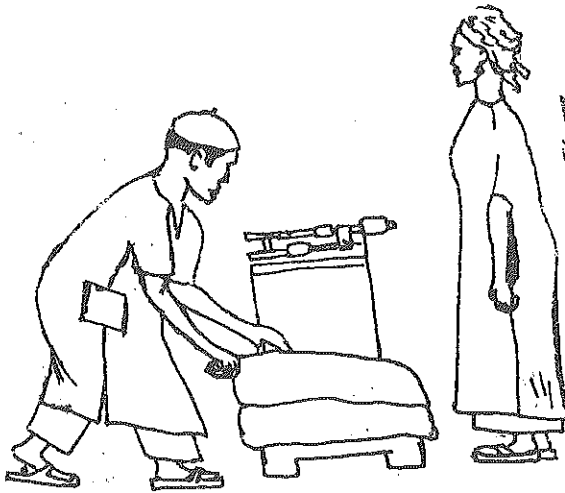
hantum

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

cew

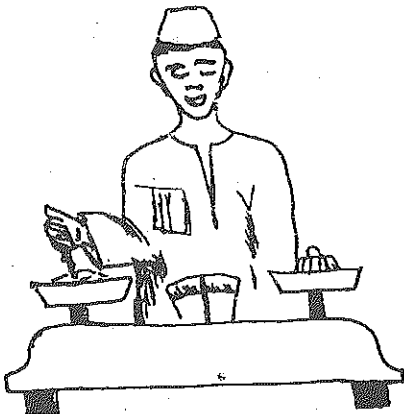
2463 . 42 720 . 9697 . 123 465 . 4005 .  
 72 700 . 30296 . 508 142 . 9000 . 82049 . 239000 .  
 80 000 . 400504 . 3002 . 51072 . 60 000 . 4344 .  
 29609 . 700 509 . 840 260 . 700 505 . 8 000 .  
 500 . 296 . 13 . 403 . 2806 . 144400 . 999 909 .

kilo



nda ni baa ka ni moowa neere basikilo bog ni ga a jisi hala ma duu ka nga kilowey hinnaa bay. hinnaa din ti nga tingaa, ni moowa tingaa ga hin ka ti kilo 154.

garam



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

ton



kunjikoyra borey koy taasu day ngey sekitero se. opam na taasu neere i se kan nga tingaa ti ton 10.

ir ma bay kan:

-ton 1 ga sawa nda kilo zenber fo.

ton 1 = kilo 1000

kilo fo ga sawa nda garam zenber fo.

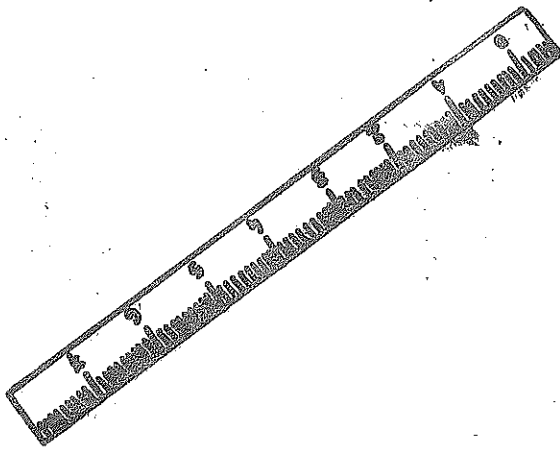
kilo 1 = garam 1000





### meetar

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



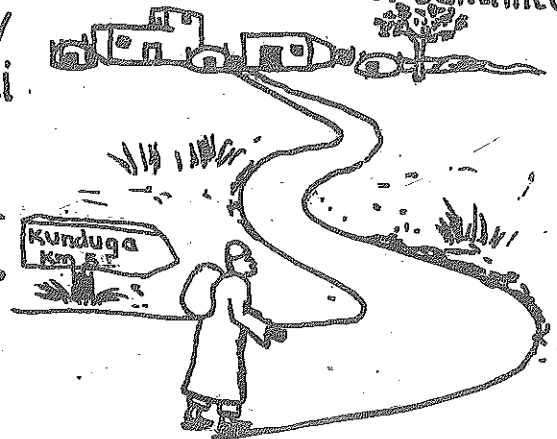
### santimeetar

meetaro zemma zangu ti  
santimeetar 1,  
ma bay kan:  
meetar 1 ga sawa nda santi-  
meetar 100.

meetar 1 = santimeetar 100.  
santimeetar 100 = meetar 1.  
nda war maa meetar 1 nda san-  
timeetar 50, woo ti santimeetar 150.

### kilomeetar

nda boro hun buram ka koy  
kunduga, kilomeetar 5 no ni  
ga a dira. nda ni hun  
wataguna ka koy fafa kilo-  
meetar 16 no ni ga a dira.



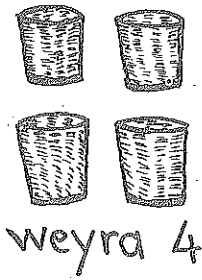
### ma bay kan

kilomeetar 1 = meetar 1000

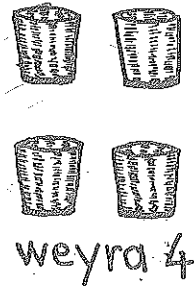
wala binde

meetar 1000 = kilomeetar 1

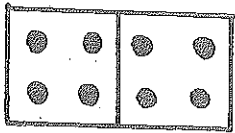
# tontonyan



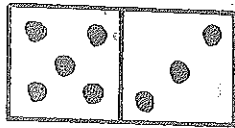
$$\begin{array}{r} 4 \\ + 4 \\ \hline = 8 \end{array}$$



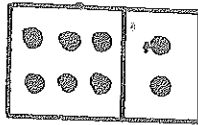
$$4 + 4 = 8$$



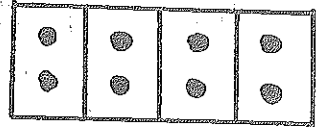
$$4 + 4 = 8$$



$$5 + 3 = 8$$



$$6 + 2 = 8$$



$$2 + 2 + 2 + 2 = 8$$

fati koy yoobo ga. a na kaatibi 26 ciiri day,  
a yee ka kaatibi 31 faku day. marje ka hun  
fati ga ?

$$\begin{array}{r} 26 \\ + 31 \\ \hline = 57 \end{array}$$

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,  
ma 7 hantum 1 cire.

2 kan tonton 3 ga sawa nda 5,  
ma 5 hantum 3 cire.

zaabo :  $26 + 31 = 57$

<u>iwey</u>	<u>cindi</u>
2	6
+ 3	1
= 5	7

timmandi :

$\begin{array}{r} 5 \\ + 3 \\ \hline = 8 \end{array}$	$\begin{array}{r} 22 \\ + 14 \\ \hline = 36 \end{array}$	$\begin{array}{r} 6 \\ + 2 \\ \hline = 8 \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline = 7 \end{array}$	$\begin{array}{r} 2 \\ + 2 \\ + 2 \\ \hline = 6 \end{array}$
---	--	---	---	--

$\begin{array}{r} 6 \\ + 3 \\ \hline = 9 \end{array}$	$\begin{array}{r} 12 \\ + 14 \\ \hline = 26 \end{array}$	$\begin{array}{r} 62 \\ + 24 \\ \hline = 86 \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline = 7 \end{array}$
---	--	--	---

# tontonyan

furari: adizatu na so nda beeri guuru day nga saddigaa se. soowa hayo ti kaatibi 450, guuro hayo ti kaatibi 302. marje no adizatu na a dag jinawey ra!

$$\begin{array}{r} 450 \\ + 302 \\ \hline \end{array}$$

tontonyan no war ga tee ka duu hinnaa kang hun adizatu ga. war ma nee:

- 0 kang tonton 2 ga ga sawa nda 2, war ma 2 hantum 2 cire.
- 5 kang tonton 0 ga, woo ti 5 war ma 5 hantum 0 cire.
- 4 kang tonton 3, woo ti 7, war ma 7 hantum 3 cire.

	zangu	<sup>nda</sup> iwey	cindi
	4	5	0
+	3	0	2
=	7	5	2

zaabo ti :  $450 + 302 = 752$ .

furari: arcikoyra woyey kondaa na ngey tamaati koga nda ngey albasaro neere. i duu albasaro ra kaatibi 3254, i duu tamaato ra kaatibi 2310. marje ti ngey nooro kul?

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

wa tontonyan tee:  
 4 kang tonton 0 ga ti 4, a ma huru 0 cire,  
 5 kang tonton 1 ga ti 6, a ma huru 1 cire,  
 2 kang tonton 3 ga ti 5, a ma huru 3 cire,  
 3 kang tonton 2 ga ti 5, a ma huru 2 cire.

	zenber	zangu	<sup>nda</sup> iwey	cindi
	3	2	5	4
+	2	3	1	0
=	5	5	6	4

zaabo ti :  $3254 + 2310 = 5564$ .

timmandi:

$\begin{array}{r} 314 \\ + 520 \\ \hline \end{array}$	$\begin{array}{r} 2633 \\ + 1046 \\ \hline \end{array}$	$\begin{array}{r} 640 \\ + 325 \\ \hline \end{array}$	$\begin{array}{r} 4260 \\ + 315 \\ \hline \end{array}$
---	---	---	--

# tontonyan

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

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

tontonyan no ma tee:  
laqsaabu.

afowey sorra: 7 nda 8 ga sawa nda 15.  
15 kabize hinka no; kabize hinka  
binde si hin ka huru sorro folloka ra.  
adisi 5 no ma hantumandi 8 cire, zama  
afowey se a goo, 1 si kala iweyey se.  
woo se a ga huru iweyey sorra beene  
bogo ga.

iweyey sorra: 1 kan tonton 6 nda 2 ga,  
ga sawa nda 9. 9 ga hantumandi 2 cire.  
zaabo:  $67 + 28 = 95$ .

<u>iwey</u>	<u>cindi</u>
1	
6	7
+ 2	8
=	
9	5

timmandi

$$\begin{array}{r} 56 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ + 38 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 74 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 45 \\ \hline \end{array}$$

# tontonyan

furari: adizatu na so nda beeri guuru day nga saddigaa se. soowa hayo ti kaatibi 450, guuro hayo ti kaatibi 302. marje no adizatu na a dang jinawey ra!

$$\begin{array}{r} 450 \\ + 302 \\ \hline \end{array}$$

tontonyan no war ga tee ka duu hinnaa kag hun adizatu ga. war ma nee:

- 0 kag tonton 2 ga ga sawa nda 2, war ma 2 hantum 2 cire.
- 5 kag tonton 0 ga, woo ti 5 war ma 5 hantum 0 cire.
- 4 kag tonton 3, woo ti 7, war ma 7 hantum 3 cire.

	zangu	<sup>nda</sup> iwey	cindi
	4	5	0
+	3	0	2
=	7	5	2

zaabo ti :  $450 + 302 = 752$ .

furari: arcikoyra woyey kondaa na ngey tamaati koga nda ngey albasaro neere. i duu albasaro ra kaatibi 3254, i duu tamaato ra kaatibi 2310. marje ti ngey nooro kul?

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

wa tontonyan tee:

- 4 kag tonton 0 ga ti 4, a ma huru 0 cire,
- 5 kag tonton 1 ga ti 6, a ma huru 1 cire,
- 2 kag tonton 3 ga ti 5, a ma huru 3 cire,
- 3 kag tonton 2 ga ti 5, a ma huru 2 cire.

	zenber	zangu	<sup>nda</sup> iwey	cindi
	3	2	5	4
+	2	3	1	0
=	5	5	6	4

zaabo ti :  $3254 + 2310 = 5564$ .

timmandi:

$\begin{array}{r} 314 \\ + 520 \\ \hline \end{array}$	$\begin{array}{r} 2633 \\ + 1046 \\ \hline \end{array}$	$\begin{array}{r} 640 \\ + 325 \\ \hline \end{array}$	$\begin{array}{r} 4260 \\ + 315 \\ \hline \end{array}$
---	---	---	--

tontonyan

furari: Fati na kaatibi 67 tuuri day.  
a yee ka kaatibi 28 denji day.  
marje ti tuuro nda denjo kul hayey  
cere ra ?

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

tontonyan no ma tee:  
laasaabu.

afowey sorra: 7 nda 8 ga sawa nda 15.  
15 kabize hinka no; kabize hinka  
binde si hin ka huru sorro folloka ra.  
adisi 5 no ma hantumandi 8 cire, zama  
afowey se a goo, 1 si kala iweyey se.  
woo se a ga huru iweyey sorra beene  
bogo ga.

iweyey sorra: 1 kan tonton 6 nda 2 ga,  
ga sawa nda 9. 9 ga hantumandi 2 cire.  
zaabo:  $67 + 28 = 95$ .

<u>iwey</u>	<u>cindi</u>
1	
6	7
+ 2	8
= 9	
	5

timmandi

$$\begin{array}{r} 56 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ + 38 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 74 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 45 \\ \hline \end{array}$$

# tontonyan

furari: adizatu na so nda beeri guuru day nga saddingaa se. soowa hayo ti kaatibi 450, guuro hayo ti kaatibi 302. marje no adizatu na a dag jinawey ra!

$$\begin{array}{r} 450 \\ + 302 \\ \hline \end{array}$$

tontonyan no war ga tee ka duu hinnaa kan hun adizatu ga. war ma nee:

- 0 kag tonton 2 ga ga sawa nda 2, war ma 2 hantum 2 cire.
- 5 kag tonton 0 ga, woo ti 5 war ma 5 hantum 0 cire.
- 4 kag tonton 3, woo ti 7, war ma 7 hantum 3 cire.

<u>zangu</u> <sup>nda</sup>	<u>iwey</u>	<u>cindi</u>
4	5	0
+ 3	0	2
= 7	5	2

zaabo ti :  $450 + 302 = 752$ .

furari: arcikoyra woyey kondaa na ngey tamaati koga nda ngey albasaro neere. i duu albasaro ra kaatibi 3254, i duu tamaato ra kaatibi 2310. marje ti ngey nooro kul?

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

wa tontonyan tee:

- 4 kag tonton 0 ga ti 4, a ma huru 0 cire,
  - 5 kag tonton 1 ga ti 6, a ma huru 1 cire,
  - 2 kag tonton 3 ga ti 5, a ma huru 3 cire,
  - 3 kag tonton 2 ga ti 5, a ma huru 2 cire.
- zaabo ti :  $3254 + 2310 = 5564$ .

<u>zenben</u>	<u>zangu</u> <sup>nda</sup>	<u>iwey</u>	<u>cindi</u>
3	2	5	4
+ 2	3	1	0
= 5	5	6	4

timmandi:

$\begin{array}{r} 314 \\ + 520 \\ \hline \end{array}$	$\begin{array}{r} 2633 \\ + 1046 \\ \hline \end{array}$	$\begin{array}{r} 640 \\ + 325 \\ \hline \end{array}$	$\begin{array}{r} 4260 \\ + 315 \\ \hline \end{array}$
---	---	---	--

tontonyan

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

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

tontonyan no ma tee:  
laqsaabu.

afowey sorra: 7 nda 8 ga sawa nda 15.  
15 kabize hinka no; kabize hinka  
binde si hin ka huru sorro folloka ra.  
adisi 5 no ma hantumandi 8 cire, zama  
afowey se a goo, 1 si kala iweyey se.  
woo se a ga huru iweyey sorra beene  
bogo ga.

iweyey sorra: 1 kan tonton 6 nda 2 ga,  
ga sawa nda 9. 9 ga hantumandi 2 cire.  
zaabo :  $67 + 28 = 95$ .

$$\begin{array}{r} \text{iwey} \quad \text{cindi} \\ \begin{array}{r} 1 \\ 6 \end{array} \quad \begin{array}{r} 7 \\ 8 \\ 5 \end{array} \\ + \quad \begin{array}{r} 2 \\ 8 \\ 5 \end{array} \\ \hline = \quad \begin{array}{r} 9 \\ 5 \end{array} \end{array}$$

timmandi

$$\begin{array}{r} 56 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ + 38 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 74 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 45 \\ \hline \end{array}$$



# tontonyan

furari: adizatu na so nda beeri guuru day nga saddinaa se. soowa hayo ti kaatibi 450, guuro hayo ti kaatibi 302. marje no adizatu na a dag jinawey ra!

$$\begin{array}{r} 450 \\ + 302 \\ \hline \end{array}$$

tontonyan no war ga tee ka duu hinnaa kaj hun adizatu ga. war ma nee:

0 kaj tonton 2 ga ga sawa nda 2, war ma 2 hantum 2 cire.

5 kaj tonton 0 ga, woo ti 5 war ma 5 hantum 0 cire.

4 kaj tonton 3, woo ti 7, war ma 7 hantum 3 cire.

zaabo ti :  $450 + 302 = 752$ .

<u>zangu</u>	<sup>nda</sup> <u>iwey</u>	<u>cindi</u>
4	5	0
+ 3	0	2
<hr/>		
= 7	5	2

furari: arcikoyra woyey kondaa na ngey tamaati koga nda ngey albasaro neere. i duu albasaro ra kaatibi 3254, i duu tamaato ra kaatibi 2310. marje ti ngey nooro kul?

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

wa tontonyan tee:

4 kaj tonton 0 ga ti 4, a ma huru 0 cire,

5 kaj tonton 1 ga ti 6, a ma huru 1 cire,

2 kaj tonton 3 ga ti 5, a ma huru 3 cire,

3 kaj tonton 2 ga ti 5, a ma huru 2 cire.

zaabo ti :  $3254 + 2310 = 5564$ .

<u>zenber</u>	<sup>nda</sup> <u>zangu</u>	<u>iwey</u>	<u>cindi</u>
3	2	5	4
+ 2	3	1	0
<hr/>			
= 5	5	6	4

timmandi:

$$\begin{array}{r} 314 \\ + 520 \\ \hline \end{array}$$

$$\begin{array}{r} 2633 \\ + 1046 \\ \hline \end{array}$$

$$\begin{array}{r} 640 \\ + 325 \\ \hline \end{array}$$

$$\begin{array}{r} 4260 \\ + 315 \\ \hline \end{array}$$

tontonyan

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

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

tontonyan no ma tee:

laasaabu.

afowey sorra: 7 nda 8 ga sawa nda 15.  
15 kabize hinka no; kabize hinka  
binde si hin ka huru sorro folloka ra.  
adisi 5 no ma hantumandi 8 cire, zama  
afowey se a goo, 1 si kala iweyey se.  
woo se a ga huru iweyey sorra beene  
bogo ga.

iweyey sorra: 1 kan tonton 6 nda 2 ga,  
ga sawa nda 9. 9 ga hantumandi 2 cire.  
zaabo :  $67 + 28 = 95$ .

<u>iwey</u>		<u>cindi</u>
6		7
+ 2		8
=		
9		5

timmandi

$$\begin{array}{r} 56 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ + 38 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 74 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 45 \\ \hline \end{array}$$

furari: zali cere woyey na 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 na day moo dumi hinkaa ra?

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

tontonyan no ma tee:

laasaabu

afowey sorra: 7 nda 8 ga sawa nda 15. kabize hinka no. kabize hinka si hin ka huru sorro folloka ra. adisi 5 no ma hantumandi 8

cire, zama afowey se a goo. 1 ga koy huru iweyey sorra se beene.

iweyey sorra: 1 kan tonton 6 nda 2 ga, ga sawa nda 9. a ga huru 2 cire.

zangey sorra: 4 nda 6 ga sawa nda 10. i kul si hin ka huru sorro folloka ra. kala 0 ma huru 6 cire, zama zangey se a goo. 1 ga ziji zenberey se beene.

zenberey sorra: 1 kan tonton 2 nda 3 ga, ga sawa nda 6. a ga huru 3 cire.

zaabo =  $2467 + 3628 = 6095$ .

zenber	zangu	iwey	cindi
2	4	6	7
+ 3	6	2	8
<hr/>			
= 6	(1) 0	9	(1) 5

timmandi:

$$\begin{array}{r} 435 \\ + 379 \\ \hline = \end{array}$$

$$\begin{array}{r} 1532 \\ + 818 \\ \hline = \end{array}$$

$$\begin{array}{r} 745 \\ + 287 \\ \hline = \end{array}$$

$$\begin{array}{r} 4715 \\ + 7026 \\ \hline = \end{array}$$

tontonyan

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

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

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

$$\begin{array}{r} 40 \\ + 33 \\ + 17 \\ \hline = 9 \text{ (1) } 0 \end{array}$$

$$\begin{array}{r} 422 \\ + 524 \\ + 30 \\ \hline = \end{array}$$

$$\begin{array}{r} 4202 \\ + 1030 \\ + 1125 \\ \hline = \end{array}$$

$$\begin{array}{r} 8791 \\ + 849 \\ + 1433 \\ \hline = \end{array}$$

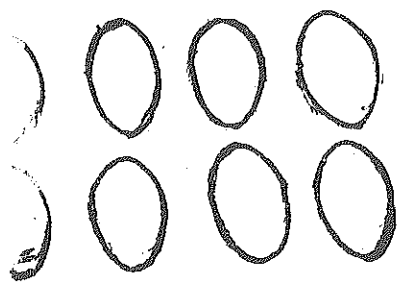
$$\begin{array}{r} 404 \\ + 23 \\ + 351 \\ \hline = 778 \end{array}$$

$$\begin{array}{r} 845 \\ + 616 \\ + 958 \\ \hline = 2 \text{ (1) } 4 \text{ (1) } 1 \text{ (1) } 9 \end{array}$$

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

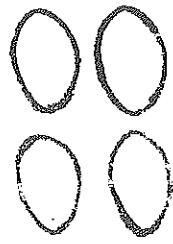
$$\begin{array}{r} 402 \\ + 389 \\ + 573 \\ \hline = 8 \text{ (1) } 9 \text{ (1) } 6 \text{ (1) } 4 \end{array}$$

kaayan



guuri 8

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



furari: adizatu na salaatiyan neere kan ra a duu kaatibi 48. a na kaatibi 23 kaa a ra ka sukar day. marje ka cindi adizatu se.

$$\begin{array}{r} 48 \\ - 23 \\ \hline 25 \end{array}$$

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

laasaabu

afowey sorra: 3 kan hun 8 ra; a ga cindi 5. 5 ga hantumandi 3 cire.

iweyey sorra: 2 kan hun 4 ra; a ga cindi 2. 2 ga huru 2 cire.

zaabo:  $48 - 23 = 25$

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

timmandi

$$\begin{array}{r} 54 \\ - 32 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 28 \\ - 14 \\ \hline 14 \end{array}$$

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

$$\begin{array}{r} 9 \\ - 7 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 97 \\ - 53 \\ \hline 44 \end{array}$$

## kaayan

furari: sorko woy fo na nga hamiisa taya neere kan ra a duu kaatibi 485. a na kaatibi 342 kaa a ra ka taasu day. marje ka cindi a se?

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

kaayan no ma tee.

laasaabu:  $485 - 342 = \text{marje?}$

afowey sorra: 2 kan hun 5 ra; a ga cindi 3. 3 ga huru 2 cire.

iweyey sorra: 4 kan hun 8 ra; a ga cindi 4. a ga huru 4 cire.

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

zaabo:  $485 - 342 = 143$ .

nda  
zangu iwey : and

4	8	5
- 3	4	2
<hr/>		
= 1	4	3

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

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

laasaabu.

afowey sorra: 2 kan hun 4 ra; a ga cindi 2. 2 ga huru 2 cire.

iweyey sorra: 4 kan hun 6 ra; a ga cindi 2. 2 ga huru 4 cire.

zangey sorra: 3 kan hun 5 ra; a ga cindi 2. a ga huru 3 cire.

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

zenben zangu iwey : c

8	5	6	4
- 6	3	4	2
<hr/>			
= 2	2	2	2

kaayan

Furari: gaafirzi sekitero woyey  
hinnaa ti woy 2683. woy 1246  
ka bana ka huru kondaa ra.  
woy marje ka cindi kanj mana  
huru kondaa ra?

$$\begin{array}{r} 2683 \\ - 1246 \\ \hline \hline \end{array}$$

kaayan no ma tee:

laasaabu:  $2683 - 1246 = \text{marje?}$

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.

zaabo =  $2683 - 1246 = 1439$

zenbe	zang	ndas	woy	cindi
2	6	8	3	
- 1	2	4	6	
1	4	3	9	

timmandi:

$$\begin{array}{r} 854 \\ - 637 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 2460 \\ - 740 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 509 \\ - 145 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 4267 \\ - 1345 \\ \hline \hline \end{array}$$

kaayan

$$\begin{array}{r}
 \text{laasaabu} \\
 4 \quad \overset{(1)}{2} \\
 - \underset{+(1)}{3} \quad 3 \\
 \hline
 = 0 \quad 9
 \end{array}$$

$$\begin{array}{r}
 \text{cew} \\
 4 \quad 2 \\
 - \quad 3 \quad 3 \\
 \hline
 = \quad 9
 \end{array}$$

$$\begin{array}{r}
 \text{laasaabu} \\
 4 \quad \overset{(1)}{3} \quad \overset{(1)}{2} \\
 - \underset{+(1)}{2} \quad \underset{+(1)}{7} \quad 6 \\
 \hline
 = 1 \quad 5 \quad 6
 \end{array}$$

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

$$\begin{array}{r}
 \text{laasaabu} \\
 2 \quad \overset{(1)}{4} \quad \overset{(1)}{0} \quad \overset{(1)}{2} \\
 - \underset{+(1)}{5} \quad \underset{+(1)}{7} \quad \underset{+(1)}{3} \\
 \hline
 = 1 \quad 8 \quad 2 \quad 9
 \end{array}$$

$$\begin{array}{r}
 \text{cew} \\
 2 \quad 4 \quad 0 \quad 2 \\
 - \quad 5 \quad 7 \quad 3 \\
 \hline
 = 1 \quad 8 \quad 2 \quad 9
 \end{array}$$

timmandi:

$$\begin{array}{r}
 54 \\
 - 26 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 257 \\
 - 88 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 6875 \\
 - 1977 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 6485 \\
 - 3846 \\
 \hline
 =
 \end{array}$$



## filla

furari: maazu alaayano na ji bata fo nda haabu fadda fo ka huru yoobo ra. jiyo day kaatibi 645, haabo day kaatibi 285.

maazu alaayano na kaatibi 150 kad nooro ra ka hayni day, a yee ka kaatibi 236 ka gaari day, a yee ka kaatibi 85 ka potooro day.  
marje ka cindi maazu alaayano se?

hala ir ga duu nooro cindo kala ir ma kabu kabila hinza tee. ijinaa ti tontonyan kan ga ir noo nooro hinnaa kan duwandi, ihinkanto ti tontonyan kan ga ir noo nooro hinnaa kan fatta, ihinzanto ti kaayan kan ga nooro kan fatta kaa woo kan huru ra.

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

$$\begin{array}{r} \text{(1)} \\ 645 \\ + 285 \\ \hline 930 \end{array}$$

kabu kabila hinkanto: nooro kan fatta  
innaa mana ti kala:  
kaatibi  $150 + 236 + 85 =$  kaatibi 471

$$\begin{array}{r} 150 \\ + 236 \\ + 85 \\ \hline 471 \end{array}$$

kabu kabila hinzanto: nooro kan cindi  
hinnaa mana ti kala:  
kaatibi  $930 - 471 = 459$

$$\begin{array}{r} 930 \\ - 471 \\ \hline 459 \end{array}$$

zaabo: kaatibi 459 ka cindi maazu alaayano se.

$$\begin{array}{r} \text{timmundi: } 358 \\ - 209 \\ \hline \end{array}$$

$$\begin{array}{r} 974 \\ + 624 \\ + 406 \\ \hline \end{array}$$

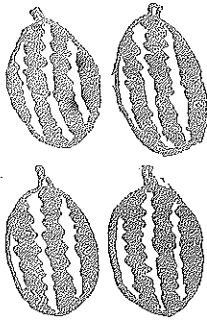
$$\begin{array}{r} 1253 \\ + 6255 \\ \hline \end{array}$$

$$490 - 845 =$$

$$1730 - 695 =$$

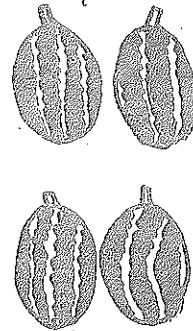
$$1425 + 3200 + 56 =$$

taabuyan

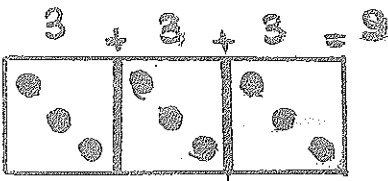


moli 4

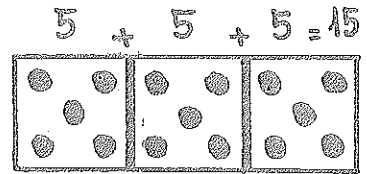
$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$



moli 4



3 x 3 = 9



5 x 3 = 15

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

nda boro baa ni ga zanka fo fangaley hinnaa tonton afa waney' ga ka duu fangaley kul hinnaa.

amma boro ga hin ka zanka fo fangaley taabu nda zankey hinnaa. woo din ti taabuyan.

sanda: 2 kan 34 na taabu = marje no? wala 34 x 2 = marje?

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

laasaabu

afowey sorra = 2 taabari 4 ga sawa nda 8  
8 ga huru 4 cire.

iweyey sorra: 2 taabari 3 ga sawa nda 6  
6 ga huru 3 cire.

zaabo: 34 x 2 = 68, fangal 68 ka tee azizi se.

iwey: cindi

$$\begin{array}{r} 34 \\ \times 2 \\ \hline 68 \end{array}$$

cew 2 5 1 29 timmandi 4 9 22 29

furari haalidu na feraw 213 kan  
kan a nacafo kul neere kaatibi 2.  
kaatibi marje no a duu a nga  
ferawey ra ?

ir si hin ka kaatibi 2 tonton cere ga  
hala ce 213. taabuyan no ma tar.  
sanda : 2 kan 213 na taabu = marje ?  
wala :  $213 \times 2 =$  marje ?

laasaabu :

afowey sorra : 2 taabari 3 ga sawa  
nda 6. 6 ga huru 3 cire

iweyey sorra : 2 taabari 1 ga sawa  
nda 2. 2 ga huru 1 cire.

zangey sorra : 2 taabari 2 ga sawa  
nda 4. 4 ga huru 2 cire.

zaabo  $213 \times 2 = 426$ . kaatibi 426  
no haalidu duu nga ferawey ra.

taabuyan

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

zangu	iwey	cindi
2	1	3
$\times$		2
<hr/>		
4	2	6

furari: boro 1032 bara gaaboy ra.  
boro fo kul na kaatibi 3 bana poto  
hay cewo se. kaatibi marje ka duwandi?

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

taabuyan no ma tee.

laasaabu :

afowey sorra : 3 taabari 2 ti 6.  
6 ga huru 2 cire.

iweyey sorra : 3 taabari 3 ti 9.  
9 ga huru 3 cire.

zangey sorra : 3 taabari 0 ti 0.  
0 ga huru 0 cire.

zenberay sorra : 3 taabari 1 ti 3.  
3 ga huru 1 cire.

zaabo :  $1032 \times 3 = 3096$ . nooro kan duwandi hinnaati  
kaatibi 3096.

zenber	zangu	iwey	cindi
1	0	3	2
$\times$			3
<hr/>			
3	0	9	6

timmandi :

$$\begin{array}{r} 432 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2310 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1202 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2100 \\ \times \quad 4 \\ \hline \end{array}$$

taabuyan

Furari: woyey kondaa na goykawize 7 zaa kan afo kul na fangal 7 tee. fangal fo kul i na fangal ize 7 tee a ra. fangal ize fo kul i na tamaati koro 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 hata ce 3.

lagaabu

hinnaa ga kate fangaley hinnaa.  
fangal  $7 \times 7 =$  marje (kabizey taaburo guna banda 50 ga)  $7 \times 7 =$  marje?

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

ihinkanto ga kate fangal izey hinnaa.  
fangal  $49 \times 7 =$  fangal ize marje?

7 taabari 8 ti 63. kabize hinka no kan si hin ka huru gorro folloka ra. 3 ga huru afowey gorra ra, 6 ga lanbandi jina a ga ti tonton iweyey taabando ga.

$$\begin{array}{r} 49 \\ \times 7 \\ \hline 343 \end{array}$$

iweyey sorra: 7 taabari 4 ti 28. 6 ga tonton 28 ka a ti 24. 4 ga huru 4 cire, jina 3 ma huru a jine zangey sorra ra.  
zaabo:  $49 \times 7 = 343$ . fangal izey hinnaa ti 343

ihinzanto ga kate tamaati korey hinnaa.  
fangal ize  $343 \times 7 =$  tamaati koro marje?

afowey sorra: 7 taabari 3 ti 21. 1 ga huru, 2 ga lanba.

iweyey sorra: 7 taabari 4 ti 28. lanbaro ga huru a ga ka a ti 30. 0 ga huru, 3 ga lanba.

zangey sorra: 7 taabari 3 ti 21. lanbaro ga huru a ga ka a ti 24. 4 ga huru, jina 2 ma huru a jine zenber sorra ra.

zaabo =  $343 \times 7 = 2401$ . tamaati korey hinnaa ti: 2401.

$$\begin{array}{r} 343 \\ \times 7 \\ \hline 2401 \end{array}$$

timmandi:

$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 456 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 819 \\ \times 3 \\ \hline \end{array}$
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taabuyan

furari: boosu na gaari poti 124 neere kan afo kul hayo ti kaatibi 32. kaatibi marje ma hima ka duwandi gaaro ra?

taabuyan no ma kate gaaro hayo.

poti  $124 \times 32 =$  marje ?

laasaabu: kabize 2 bara taabuka ra.

kala afo kul ma taabanta kabizey taabu.

afowey sorra: 2 taabari 4 ti 8.  
8 ga huru 4 cire.

iweyey sorra: 2 taabari 2 ti 4.  
4 ga huru 3 cire.

zangey sorra: 2 taabari 1 ti 2.  
2 ga huru 1 cire.

	zenber	zangu	iwey	cindi
		1	2	4
X			3	2
		2	4	8
+ 3	7	2		
	3	9	6	8

sogo ni ga 3 zaa kan goo iweyey se taabukaa ra.

3 taabari 4 ti 12. 2 ga huru iweyey sorra ra 4 cire; 1 ga lanba.

3 taabari 2 ti 6. 1 ga tonton a ga ka a ti 7. 7 ga huru zangey sorro ra 2 cire.

3 taabari 1 ti 3. 3 ga huru zenberey sorra ra.

a cindi taabandey kan duwandi tontonyano cere ga.

8 kan cire haya kul sii ga zunbu afowey sorra ra.

iweyey sorra: 4 nda 2 ga sawa nda 6. 6 ga huru 2 cire.

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

zenberey sorra: 3 kan haya kul mana huru a ga ga zunbu 3 cire.

zaabo:  $124 \times 32 = 3968$ . kaatibi 3968 ka duwandi gaaro ra.

timmandi:

$$\begin{array}{r} 432 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 5304 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 3210 \\ \times 41 \\ \hline \end{array}$$

$$\begin{array}{r} 863 \\ \times 32 \\ \hline \end{array}$$

fiisa na albasar kilo 114 day yoobo ra kan  
 kilo fo kul hayo ti kaatibi 90. marje no fiisa  
 na bana albasaro kul se ?  
 a yee ka albasaro neere kaatibi 105. marje  
 ti neere hayo kul ?

kilo fo day hayo no ma kilo 114 taabu ka kate day hay  
 timmanta. kilo  $114 \times 90 =$  marje ?

laasaabu:

0 taabari 4 ti 0. 0 ga huru 4 cire  
 afowey sorra ra.

0 taabari 1 ti 0. 0 ga huru 1 cire  
 iweyey sorra ra.

0 taabari 1 ti 0. 0 ga huru 1 cire  
 zangey sorra ra.

ma 9 zaa kan goo taabukaa ra iweyey sorra ra.

9 taabari 4 ti 36. 6 ga huru 9 cire iweyey sorra ra, 3 ga lanba.

9 taabari 1 ti 9. 3 ga tonton a ga ka a ti 12. 2 ga huru 1 cire,  
zangey sorra ra, 1 ga lanba.

9 taabari 1 ti 9. 1 ga tonton a ga ka a ti 10. 0 ga huru zenberey  
sorra ra; 1 ga huru a jine zenber weyey sorra ra.

zaabo: day hayo ti:  $114 \times 90 =$  kaatibi 10260.

$$\begin{array}{r}
 114 \\
 \times 90 \\
 \hline
 000 \\
 + 1026 \\
 \hline
 = 10260
 \end{array}$$

kilo fo neere hayo no ma kilo 114 taabu ka kate neere hay  
 timmanta. kilo  $114 \times 105 =$  marje ?

laasaabu:

5 taabari 4 ti 20. 0 ga huru 4 cire, 2 ga lanba.

5 taabari 1 ti 5. lanbaro ga tonton a ga ka a ti 7.

5 taabari 1 ti 5. a ma huru zangey sorra ra.

ma 0 zaa kan goo taabukaa ra iweyey sorra ra.

0 taabari 4 ti 0. 0 ga huru iweyey sorra ra.

0 taabari 1 ti 0. 0 ga huru zangey sorra ra.

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

ma 1 zaa kan goo taabukaa ra zangey sorra ra.

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

1 taabari 1 ti 1. 4 ga huru zenberey sorra ra.

1 taabari 1 ti 1. 1 ga huru zenber weyey sorra ra.

taabantey ma tonton cere ga.

zaabo: neere hayo ti:  $114 \times 105 =$  kaatibi 11970.

$$\begin{array}{r}
 114 \\
 \times 105 \\
 \hline
 570 \\
 000 \\
 + 114 \\
 \hline
 11970
 \end{array}$$

taabuyan

furari: hoolugungu borey ga baanngey ma  
 hugu bobbo ein kan koyraa kul ga i mayray.  
 woo se i na kangaw bundu 1032 day. kangaw  
 bundu fo kul hayoti kaatibi 574.  
 marje ti kangawey kuhhayo ?

taabuyan no ma tee.  
 kaatibi 574 x 1032 = marje ?  
 wala: 1032 x 574 = marje ?

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

laasaabu:

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

$$\begin{array}{r} 1032 \\ \times 574 \\ \hline 4128 \\ 7224 \\ 5160 \\ \hline 592368 \end{array}$$

ma kaa 7 ga kan goo iweyey se taabukaa ra.  
 7 taabari 2 ti 14. 4 ga huru iweyey sorra ra;  
 1 ga lanba.

- 7 taabari 3 ti 21. 1 ga tonton a ga ka a ti 22.
- 2 ga huru zangey sorra ra. 2 ga lanba.
- 7 taabari 0 ti 0. 2 ga tonton a ga ka a ti 2.
- a ga huru zenberey sorra ra.
- 7 taabari 1 ti 7. a ga huru zenbereweyey sorra ra.

ma kaa 5 ga kan goo zangey se taabukaa ra.  
 5 taabari 2 ti 10. 0 ga huru zangey sorra; 1 ga lanba.  
 5 taabari 3 ti 15. 1 ga tonton a ga ka a ti 16. 6 ga huru zenberey  
 sorra ra; 1 ga lanba.  
 5 taabari 0 ti 0. 1 ga tonton a ga ka a ti 1. a ga huru zenber  
 weyey sorra ra.  
 5 taabari 1 ti 5. 5 ga huru zenber zangey sorra ra.

ma taabandey tonton cere ga duu dimmaa.  
zaabo: 1032 x 574 = 592 368. kangawey kul hayo ti  
 kaatibi 592 368.

# taabuyan

furari: saafiyatu goo nda kaatibi 2500 kan a duu ey nga tarmawey ra. a yee ka konbiter kilo 124 neere kan kilo fo kul hayo ti kaatibi 62. marje ti nga nooro kul?  
 saafiyatu na kaatibi 4750 kaa nooro ra ka hunay day. marje ma cindi a se ?

kabu kabila hinza no ma tee hala saafiyatu nooro cindo ga duwandi.

ijinaa ti taabuyan kan ga kate konbitero kul hayo.

laasaabu:

kaatibi  $62 \times 124 =$  marje ?

wala :  $124 \times 62 =$  marje ?

zaabo:  $124 \times 62 =$  kaatibi 7688

$$\begin{array}{r} 124 \\ \times 62 \\ \hline = 248 \end{array}$$

$$\begin{array}{r} + 7^{(1)}4^{(2)}4 \\ \hline = 7688 \end{array}$$

ihinkanto ti tontonyan kan ga kate nooro kul hinnaa kan saafiyatu ga a may.

laasaabu:

kaatibi  $2500 + 7688 =$  marje ?

zaabo: kaatibi  $2500 + 7688 = 10188$ .

$$\begin{array}{r} 2500 \\ + 7688 \\ \hline = 10188 \end{array}$$

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

laasaabu:

kaatibi  $10188 - 4750 =$  marje ?

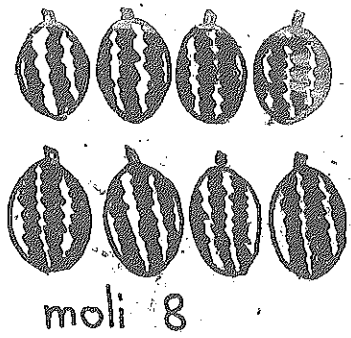
zaabo: kaatibi  $10188 - 4750 = 5438$ .

saafiyatu nooro cindo mana ti kala kaatibi 5438

$$\begin{array}{r} 10188 \\ - 4750 \\ \hline = 05438 \end{array}$$

furari: zayna na nga duuri poti 105 neere. poti fo kul neere hayo ti kaatibi 40. izo na kaatibi 3780 sanba a se. marje ti zayna nooro kul cere ra?  
 a na kaatibi 4635 kaa nooro ra ka alkaasi bana. marje ka cindi zayna se ?





moli 8

Zemnayan

$$\begin{array}{r|l} 8 & 2 \\ \hline 0 & 4 \end{array}$$



8 : 2 = 4

futari: yuni woyey duu so 7 kan i na i-zemna ngey saddinay hinkaa se bogay-bogay. so marje no saddinay fo kul ga duu; marje ma cindi?

zemnayan no ni ga tee ka duu saddinay fo kul baga.

zemnayan nda kabu kabilawey kan ni doona ka i tee mana ti afo.

laasaabu:

7 kan ti zernanta no ni ga a zemna nda 2 kan ti zernaka. 7 zemnari 2 ti 3. 3 ga huru 2 cire. 3 ga 2 taabu ka kate 6. 6 ga hun 7 ra, 1 ga cindi.

zaabo: 7 : 2 = 3, 1 ga cindi. saddinay fo kul ga duu so 3, 1 ga cindi.

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

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

laasaabu:

4 kan goo iweyey sorra ra kabe wawa here no ma zemna 3 game ra. ni ga duu 1.

1 taabari 3 ti 3. 3 kan hun 4 ra a ga cindit. cindo ga huru 3 cire.

5 kan goo afowey sorra ra ga zunbu 1duma ga ka a ti 15.

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

5 taabari 3 ti 15. 15 wo ga hun 15 ra kan goo 3 cire. a ga cindi 00.

zaabo: 45 : 3 = 15. guusu fo kul ga duu feraw 15, 0 ga cindi.

timmandi:  $9 \overline{)3}$      $20 \overline{)2}$      $63 \overline{)3}$      $87 \overline{)4}$

$$45 \overline{)3}$$

$$\begin{array}{r|l} 45 & 3 \\ -3 & \\ \hline 15 & \\ -15 & \\ \hline 00 & \end{array}$$

zennayan

furqari: 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 fo kul ga duu?

zennayan no irga a tee ka duu arwasu fo kul baga.  
kaatibi 695 zennari 3 ga sawa nda marje?  
wala:  $695 : 3 = \text{marje?}$

laasaabu:

zennaka kabizo kan goo kabe wawa  
here no ni ga a zaa. 6 no.

6 zennari 3 ti 2. 2 ga huru 3 se ganda  
kabe guma here. 2 ga 3 taabu ka ti 6.

6 ga hun 6 ra kabe wawa here. a ga  
cindi 0. 0 ga huru 6 cire.

ma 9 zaa ka a zumandi 0 se kabe guma here.

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

2 duma 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 duma ga.

5 zennari 3 ti 1. 1 ga beene 3 taabu karkate 3.

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

zaabo: kaatibi  $695 : 3 = 231$ , 2 ga cindi.

arwasu fo kul ga duu kaatibi 231, kaatibi 2 ga cindi.

$$\begin{array}{r} 695 \overline{) 3} \\ \underline{-6} \phantom{0} \\ 09 \phantom{0} \\ \underline{-6} \phantom{0} \\ 030 \\ \underline{-21} \\ 090 \\ \underline{-63} \\ 270 \\ \underline{-210} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

timmandi:

$$\begin{array}{r} 556 \overline{) 5} \\ \underline{-5} \\ 0 \end{array}$$

$$\begin{array}{r} 482 \overline{) 2} \\ \underline{-2} \\ 0 \end{array}$$

$$\begin{array}{r} 397 \overline{) 3} \\ \underline{-3} \\ 0 \end{array}$$

$$\begin{array}{r} 97 \overline{) 7} \\ \underline{-7} \\ 0 \end{array}$$

zemnayan

furari: konday fo sekiter 6 duu hayni ton 276.  
 sekiterey kul baga ga hima ka sawa.  
 marje no afo kul ga hima ka duu ?

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

laasaabu:

2 ti kabize jinaa kan goo kabe wawa,  
 here. 2 si hin ka zemna 6 game ra.  
 adisi kabize 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 wawa here.

6 ga zunbu 3 duma ga ka a ti 36.

36 ga hun 36 ra; 00 ga cindi.

00 ga huru 36 cire.

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

zaabo: ton  $276 : 6 = 46$ .

ton 46 no sekiter fo kul ga duu a.

timmandi:

$$\begin{array}{r|l} 132 & 4 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 688 & 8 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 425 & 5 \\ \hline & \end{array}$$

$$337 : 4$$

zamnayan

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

zamnayan:  $468 : 13 = \text{marje?}$

laasaabu

kabize hinka ti 13 kan ti zamnaka  
 adisi kabize hinka no ma zandi  
 zamnanta ra. woo ti 46.

46 kan 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.  $3 \times 13 = 39$ . 39 ga  
 huru 46 cire ka hun a ra. a ga cindi 7.

7 ga huru 9 cire, jina ni ga 8 zumandi duma 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.

zaabo:  $468 : 13 = 36$ .

fadda fo kul mudu 36 bara a ra.

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

timmandi:

$$\begin{array}{r|l} 453 & 15 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 932 & 22 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 874 & 17 \\ \hline & \end{array}$$

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

zemnayan:  $2500 : 12 = \text{marje?}$

laasaabu:

12: kabize hinka no.

adisi kabize hinka ma zandi kabe  
wawa here. woo ti 25.

25 zemnari 12 ti 2.

$2 \times 12 = 24$ .

24 kan hun 25 ra, a ga cindi 1.

1 ga huru 4 cire.

ma 0 jinaa zaa ka a zumandi 1 duma ga.

a ga ti 10. 10 si hin ka zemna 12 game ra.

0 ga huru 2 duma ga kabe guma here.

ma 0 hinkanto zaa ka zumandi 10 duma ga. a gati 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 duma ga kabe guma here.

$8 \times 12 = 96$ . 96 ga hun 100 ra, a ga cindi 4.

4 ga huru 6 cire.

$$\begin{array}{r} 2500 \overline{) 12} \\ \underline{24} \phantom{00} \\ 100 \\ \underline{96} \\ 004 \end{array}$$

zaabo:  $2500 : 12 = 208 ; 4$  ga cindi.

boro fo kul ga kaatibi 208 bana gaaro se.  
kaatibi 4 a cindi kan ga hima ka banandi.

timmandi:

$$4530 \overline{) 15}$$

$$8124 : 16 =$$

$$9366 \overline{) 23}$$

$$7425 : 22 =$$

$$6900 \overline{) 14}$$

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

zernayan: kaatibi 1660 : 22 = marje ?

laasaabu:

kaabize hinka bara zernakaa se, woo din se kabize hinka no ni ga a zaa zernanta mo ra. woo ti 16. amma 16 si hin ka zemna 22 game ra.

adisi ma kabize hinza zaa zernanta ra. woo ti 166.

166 kan zemna 22 game ra ga sawa nga 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,  $7 \times 22 = 154$ , 154 kan hun 166 ra a ga cindi 12. 12 ga huru 154 cire.

amma 0 zumandi 12 duma ga ka a ti 120.

120 zemnari 22 ga hin ka kate 5.  $5 \times 22 = 110$ .

110 kan hun 120 ra a ga cindi 10.

10 ga huru 110 cire.

zaabo:  $1660 : 22 = 75$ . tamaati kogo poti fo hayo ti kaatibi 75. a ga cindi kaatibi 10 kan duwandi tamaati buuna-buunayan ra.

$$\begin{array}{r|l} 1660 & 22 \\ - 154 & \\ \hline 120 & 75 \\ - 110 & \\ \hline 10 & \end{array}$$

lakkal dag: waati kul kan ni dii kan zernakaa kabize hinka bisa zernanta kabize hinkaa kan ni nai zaa kul ma zernanta kabizey ti ihinka.

timmandi:

$$\begin{array}{r|l} 216 & 23 \\ \hline & \\ \hline & \end{array} \quad \begin{array}{r|l} 4562 & 36 \\ \hline & \\ \hline & \end{array} \quad \begin{array}{r|l} 1040 & 15 \\ \hline & \\ \hline & \end{array} \quad \begin{array}{r|l} 3244 & 84 \\ \hline & \\ \hline & \end{array}$$

waafakaygaa kondaa duu gaari kilo 92000  
 kan goo saakuyan ra. saaku fo kul tina  
 ti kilo 100. saaku marje ka kaa waafakaygaa  
 kondaa se?

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

laasqabu:

100 kan ti taabukaa kabize hinza bara a ra.  
 adisi kabize hinza no ma zandi kabe wawa here. woo ti 920  
 920 zemnari 100 ga kate 9.

$9 \times 100 = 900$ . 900 kan hun 920 ra, a ga cindi 20.

20 ga huru 900 cire kabe wawa here

0 ga zunbu duma ga ka a ti 200.

$200 : 100 = 2$ . 2 ga huru 9 duma ga.

$2 \times 100 = 200$ .

200 ga hun 200 ra kabe wawa here.

0 ga cindi.

ma 0 kora zaa kan goo beene kabe wawa  
 here ka a zumandi 0 guma ga.

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

zaabo: kilo 92000 : 100 = saaku 920.

saaku 920 bara kilo 92000 ra.

$$\begin{array}{r|l} 92000 & 100 \\ - 900 & \\ \hline 200 & \\ - 200 & \\ \hline 000 & \end{array}$$

lakkal dan: nda ni na 0 hinkaa wi kan goo 1 duma ga zemnaka  
 ra, ni yee ka 0 hinkaa wi kan goo zemnantag rakabe wawa  
 here kul ni ga duu 920.

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

yaadawey de no ni ga i wi, jina ma ngey hinnaa wi kan  
 goo zemnantaa ra. sika sii kan ni ga duu zaabo.

timmandi:

$$\begin{array}{r|l} 4372 & 10 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 7349 & 100 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 64000 & 100 \\ \hline & \end{array}$$

furari: harikaaray cindi nda konbiter kilo 54. a a kilo fo kul neere kaatibi 73. a yee ka nga gaaru : neere kaatibi 4730.

harikaaray na kaatibi 5850 kaa nooro kul kan duu a ra muraadu se. woo kan cindi a na zemna wayma hinza game ra.

marje no wayma fo kul ga duu a?

hala ni ga duu wayma fo kul baga kala ma kabu kabila taaca kul tee.

ijinaa ti taabuyan kan ga ni noo konbiterey hayo.

kaatibi  $73 \times 54 =$  kaatibi 3942.  
konbiter kilo 54 hayo ti kaatibi 3942.

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

ihinkanto ti tontonyan kan ga ni noo nooro kul kan harikaaray duu a konbitero nda gaaro ra.

kaatibi  $3942 + 4730 =$  kaatibi 8672.

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

ihinzanto ti kaayan kan ga ni noo nooro kan cindi harikaaray se muraado banda ga.  
kaatibi  $8672 - 5850 =$  kaatibi 2822.

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

itaacanto ti zemnayan kan ga ni noo nooro kan wayma fo kul duu a.

kaatibi  $2822 : 3 =$  kaatibi 940.

harikaaray wayma fo kul duu kaatibi 940, a cindi kaatibi 2.

$$\begin{array}{r} 2822 \quad | \quad 3 \\ - 27 \\ \hline 12 \\ - 12 \\ \hline 02 \\ - 0 \\ \hline 02 \end{array}$$

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 nooro ra ka gorgoyan day. ~~marje~~ kan cindi i na noo woy talka 5 se i ma a zemna.

marje no woy talka fo kul ga duu a?



## kabizey taaburo

$1 \times 1 = 1$	$2 \times 1 = 2$	$3 \times 1 = 3$	$4 \times 1 = 4$	$5 \times 1 = 5$
$1 \times 2 = 2$	$2 \times 2 = 4$	$3 \times 2 = 6$	$4 \times 2 = 8$	$5 \times 2 = 10$
$1 \times 3 = 3$	$2 \times 3 = 6$	$3 \times 3 = 9$	$4 \times 3 = 12$	$5 \times 3 = 15$
$1 \times 4 = 4$	$2 \times 4 = 8$	$3 \times 4 = 12$	$4 \times 4 = 16$	$5 \times 4 = 20$
$1 \times 5 = 5$	$2 \times 5 = 10$	$3 \times 5 = 15$	$4 \times 5 = 20$	$5 \times 5 = 25$
$1 \times 6 = 6$	$2 \times 6 = 12$	$3 \times 6 = 18$	$4 \times 6 = 24$	$5 \times 6 = 30$
$1 \times 7 = 7$	$2 \times 7 = 14$	$3 \times 7 = 21$	$4 \times 7 = 28$	$5 \times 7 = 35$
$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$	$4 \times 8 = 32$	$5 \times 8 = 40$
$1 \times 9 = 9$	$2 \times 9 = 18$	$3 \times 9 = 27$	$4 \times 9 = 36$	$5 \times 9 = 45$
$1 \times 10 = 10$	$2 \times 10 = 20$	$3 \times 10 = 30$	$4 \times 10 = 40$	$5 \times 10 = 50$

$6 \times 1 = 6$	$7 \times 1 = 7$	$8 \times 1 = 8$	$9 \times 1 = 9$	$0 \times 1 = 0$
$6 \times 2 = 12$	$7 \times 2 = 14$	$8 \times 2 = 16$	$9 \times 2 = 18$	$0 \times 2 = 0$
$6 \times 3 = 18$	$7 \times 3 = 21$	$8 \times 3 = 24$	$9 \times 3 = 27$	$0 \times 3 = 0$
$6 \times 4 = 24$	$7 \times 4 = 28$	$8 \times 4 = 32$	$9 \times 4 = 36$	$0 \times 4 = 0$
$6 \times 5 = 30$	$7 \times 5 = 35$	$8 \times 5 = 40$	$9 \times 5 = 45$	$0 \times 5 = 0$
$6 \times 6 = 36$	$7 \times 6 = 42$	$8 \times 6 = 48$	$9 \times 6 = 54$	$0 \times 6 = 0$
$6 \times 7 = 42$	$7 \times 7 = 49$	$8 \times 7 = 56$	$9 \times 7 = 63$	$0 \times 7 = 0$
$6 \times 8 = 48$	$7 \times 8 = 56$	$8 \times 8 = 64$	$9 \times 8 = 72$	$0 \times 8 = 0$
$6 \times 9 = 54$	$7 \times 9 = 63$	$8 \times 9 = 72$	$9 \times 9 = 81$	$0 \times 9 = 0$
$6 \times 10 = 60$	$7 \times 10 = 70$	$8 \times 10 = 80$	$9 \times 10 = 90$	$0 \times 10 = 0$