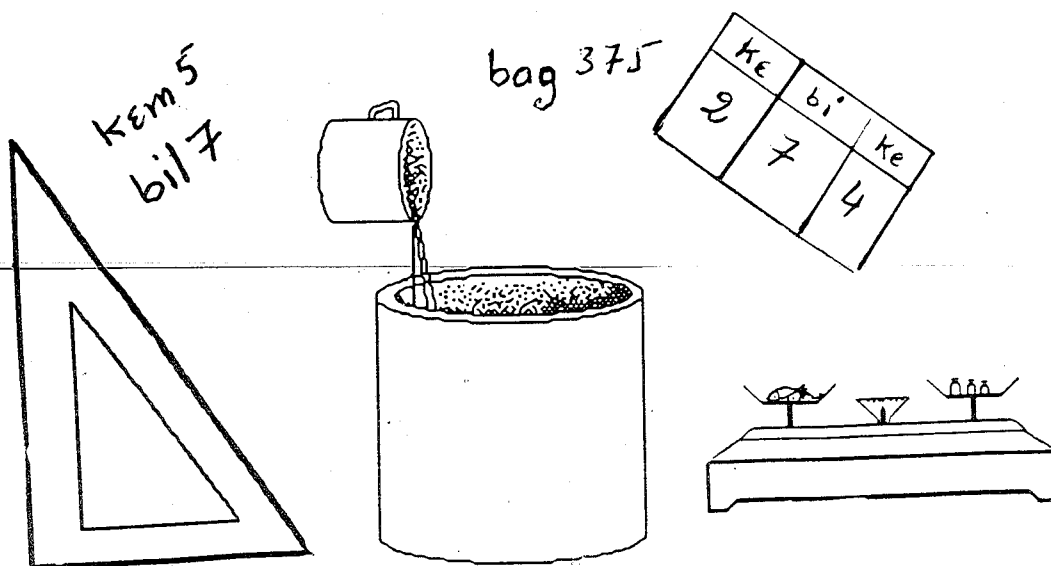


Mali Dugumakalanko Minisiriso
Kalan jɛpinini jɛmɔgɔso
Fasokanw jɛpininibulon

Jama kelen-Kuntilenna kelen-Ijaniya kelen

JATE San 3 nan



Balikukalan Baarada gafedilanyɔɔ

Bamako
1993

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Mamadu Bubu jakate
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Baba Jakite

Jate
San Sabanan

Kalanni jɛpinini jɛmɔgɔso
(IPN)
Fasokanw jɛninibulon

Bamako
1993

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Jate San Sabanan ɲɛbila

Nin gafe in dilanna ka ɲɛsin jate kalanni ma kalanso sabanan kɔɔ. A bɛ kalanden dɛmɛ:

- ka jatesigiw nafaw an' u kɛcogow dɔn.
- ka sigiyɔɔmali faamu.
- ka ɲɛgenw sawura dɔn.

Gafe in kɔɔ, sinsin kɛra kunnajate, degelifɔta, degelisɛbɛnta ani jateɲini ka b'a to, karamɔɔ ka kalankɛtaw bɛ sinsin kosɛbɛ.

Tɲɛ don, kalanden bɛ se kunnajate la dɔɔnin a ka kan na, o n'a ta, a ɲininen karamɔɔ fɛ, a k'a ka kalan daminɛ ni kunnajate ye, k'i sinsin a kan kosɛbɛ.

Daw ni sumanikɛlanw (m, mtt...g, bag...l, ...bil...) kalan labɛnnen bɛ cogoyɛ min b'a to sumanikɛlanw falenni kalan bɛ ɲɔɔya kalandenw ma.

Walasa kalandenw ka faamuyali teliman sɔɔ, nataliyew ni jateɲiniw misali tara ka ɲɛsin denmisɛnw ka don o don kokɛtaw ma.

Jateɲini cayara gafe in kɔɔ walasa karamɔɔ ka se k'a caman kɛ kalandenw kalanso kɔɔ ani kalandenw yɛrɛ ka se ka dɔw kɛ so.

Kalansen 70 de labɛnna nin gafe kɔɔ. u sigisigilen bɛ ɲɔɔɔn kɔ walasa ka kalandenw ka faamuyali kuraw sinsin kɔɔɔlenw kan.

Min ye tilali kalanni ye, a ɲininen bɛ kɛrɛnkɛrɛnɛnya la karamɔɔ fɛ a k'a kɛcogo cun k'a sumaya walasa k'a ɲɔɔya kalandenw ma.

Baarakɛɲekulu min ye nin gafe in dilan, o dalen b'a la ko nin tɛ se ka kɛ fɛn dafalen ye fɔɔ. O la sa, a b'a ɲini aw fɛ, a k'aw hakililataw kɛ bataki ye k'a c I.P.N. baarada la, B.P. 1583 - Bamako.

A ka foli b'aw ye

Baarakɛɲekulu

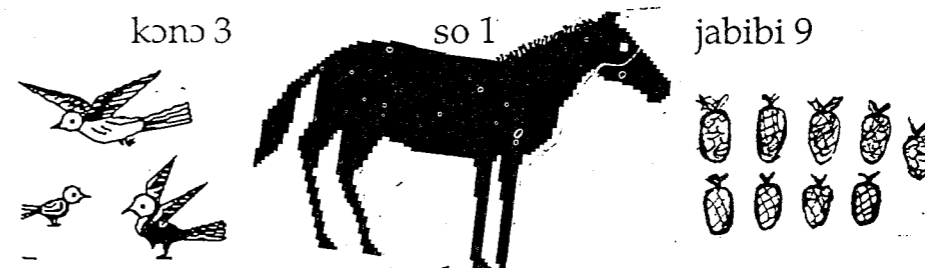
Abu Jara

Mamadu Bubu ɲakate

Nbarisa Asa B. Tarawele

Baba Jakite

Ka bɔ 0 la ka taa 9 na



Kalanden joli bɛ sigilan fɔɔ kan? Kalanden joli ɲɛn bɛ? U dan.

Da fɔɔlenw bɛ sɛbɛn walanninw kan:

3; 8; 0; 4; 1; 9; 7; 5; 6.

Jumɛn ka ca 3 ni 9 cɛ? 7 ni 1 cɛ dun? 2 ni 8 cɛ dun?

Da yakaw : 1 - 3 - 5 - 7 - 9

Da falenw : 2 - 4 - 6 - 8

Degelisɛbɛntaw:

1. A' ye daw sɛbɛn ɲɔɔɔn kɔ ka bɔ 0 la ka taa 9 na.

2. A' ye daw sɛbɛn k'a daminɛ da dɔɔɔmanin na k'a laban ni da min ka ca u bɛɛ ye.

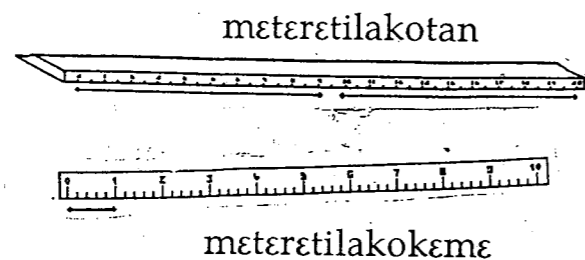
4; 8; 1; 3; 9; 2.

3. Mangoro 7 bɛ Gejuma bolo, mangoro 4 tolilen don u la. Mangoro ɲuman joli bɛ Gejuma bolo?

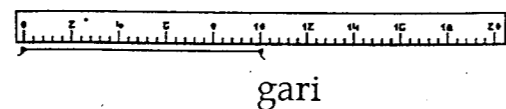
4. A' ye da dɔ sɛbɛn ni siginiden 4 ye, ni siginiden 7 ye, ni siginiden 3 ye.

5. N bɛ mɔɔɔ 3 kɔ, mɔɔɔ 3 bɛ ɲɛ. An ye mɔɔɔ joli ye?

Meteretilakotan, meteretilakokeme



Tiiricilannin tilalen don yoro kunba 20 ye. Ka bo o la ka taa 10 na o ya tilance falo ye. Ka bo 10 na ka taa 20 na o ya tilance filanan ye.



Gari in sigiyoroma 10 de be meterε la, walima gari in ye meterε tila ko tan ya.

Tiiricilannin na, ka bo 0 la ka taa 10 na, o ye meterε tilalen ye 10 ye, ka bo 10 na ka taa 20 na, o fana ye meterε tilalen 10 ye. Tiiricilan janya ye meterε tila ko tan 10 fila ye.

Meterε kelen ye meteretilakotan 10 ye

$$m1 = mtt10 \begin{array}{c|c} m & mtt \\ \hline 1 & 0 \end{array}$$

Tiiricilannin fila ye mtt joli ye?

Mtt 8 ye tiiricilan joli ye?

Tiiricilannin tilalen don yoro 20 ye, o yoro kunba kelen o kelen ye meterε tilalen ye keme ye.

Tiiricilannin janya ye meteretilakokeme mugan ye.

$$mtt 1 = mtk 10 \begin{array}{c|c} m & mtk \\ \hline 1 & 0 \end{array}$$

Marata

Meteretilakotan (mtt) ni meteretilakokeme (mtk) ye janya sumanikelanw dow ye.

1. Degelifotaw

mtt 2 ye mtk joli ye?

mtt 3 ye mtk joli ye?

mtk 3 + mtt 2 ye mtt joli ye?

mtt 9 + mtt 6 ye mtt joli ye?

2. Degelisεbentaw

a - A' ye tiiri ci min janya ye mtk 15 ye.

b - A' ye nin jatesigi jinnu korε sεben:

mtt 8 + mtt 3 = mtt # ye

mtk 10 + mtk 4 = mtk # ye

mtt + 6 mtt 3 = mtt # ye

mtk 7 + mtk # = mtk 13 ye

mtt # + mtt 5 = mtt 9 ye

mtk 1 + mtk 7 = mtk # ye

mtt 1 + mtk 3 = mtk # ye

mtt 1 = mtk 4 + mtk # la ye

mtt 1 = mtk 7 + mtk # la ye

mtt 1 = mtk # mtk 5 ye

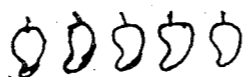
mtt 2 = mtk 16 + mtk # la ye

mtt 2 = mtk # + mtk 9 ye

Ka bɔ 10 na ka taa 20 na: bi



gafe 5



mangoro 10

Kala 9 bɛ ta ka kala 1 kafo o la, ka jininkali kɛ:

Kala 9, ni kala 1 kafora o la, o bɛ kɛ kala joli ye?

Kala 1 kafo kala 9 na, o ye kala 10 ye.

Tan bɛ sɛbɛn cogo di?

Kalandenw bɛ 10 sɛbɛn walanninw kan.

Tan sigiyɔroma kelen bɛ wele cogo di?

Kala 10 ye bi joli ye?



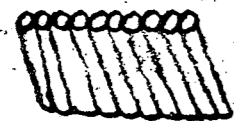
kala 10 bi 1

Kalasinin kelen ye bi 1 ye

bi	ke
1	0

Kalasinin 1 bɛ ta ka kala 2, 3, 6 walima 8 kafo o la, ka jaabi fo, k'a sɛbɛn walanninw ni walanba kan.

Ni danni sera 19 ma, kala 1 bɛ kafo o la ka jininkali kɛ: kala 1 kafo kala 19 na o ye kala joli ye? Tan sigiyɔroma joli bɛ mugan na? Mugan ye bi joli ye? Mugan bɛ sɛbɛn cogo di?



10



10

20

bi	ke
2	0

Segesegeli: 1 - Kalandenw bɛ danni kɛ ka bɔ o la ka taa 20 na. Walima ka bɔ 10 na ka taa 20 na.

Marata: Ka bɔ 10 na ka taa 20 na, o ye :

10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20.

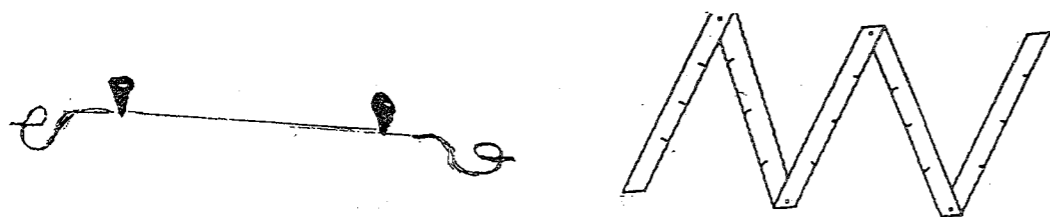
Degelifota: A' ye fila - fila danni kɛ ka bɔ 0 la ka taa 20 na.

Degelisɛbentaw: Tomi bɛ jateden minnu nɔ na, a' ye olu sɛbɛn:

0, #, 2, #, 4, #, #, 7, 8, #, 10, #, #, #, 14, #, 16, #, #, 19, #.

Ciw

Kunnajate



Gari samanen no be bo walanba kan ni farasu bilenman ye. No in be wele ci. Ci min don, a tilennen don. A be wele ci telennen. Ci tilennen misali be jira kalanso konso.

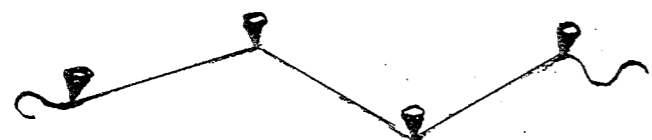


Gari no be bo walanba kan ni farasu bilenman ye.

Ci in ye ci telennen ye wa? A be cogo di?

Ci in be wele ci karilen.

Ci karilen misali be jira kalanso konso.



Gari no be bo walanba kan ni farasu bilenman ye.

Ci in ye ci telennen ye wa? Ci karilen don wa?

A be cogo di?

Ci in be wele ci kurulen.

Ci kurulen misali be jira kalanso konso.

Segesegeli: Karamoɓo mana ci min fo kalandenw bo ke walanninw kan.

Marata: Ciw ye suguya saba ye: ci telennen, ci karilen ani ci kurulen.

Kafoli a nafaw

Kunnajate

Kafoli



Npiye ni jele taara mangoro kari. Npiye ye mangoro 12 kari, jele ye mangoro 5 kari.

Npiye ni jele ye mangoro joli kari?

Mun jininkali kera an na?

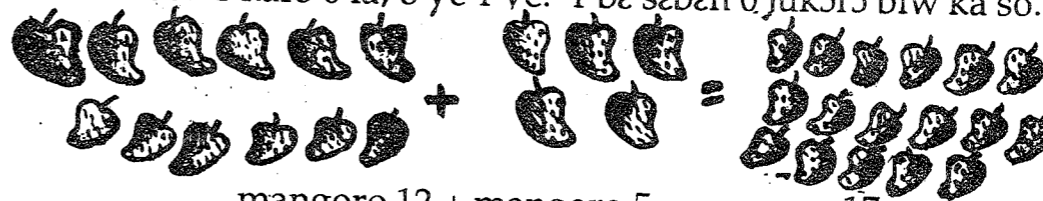
Jatesigi suguya jumen ba to an bo soro?

Jateminε kecogo :

12 be seben folo, ka tila ka 5 seben 2 jukoro kelenw ka so. Kafoli be damine kinin fe ka bo sanfe ka jigin:

Kelenw ka so: 2 kafo 5 la, o ye 7 ye. 7 be seben 5 jukoro kelenw ka so.

Biw ka so: 1 kafo 0 la, o ye 1 ye. 1 be seben 0 jukoro biw ka so.



mangoro 12 + mangoro 5 = mangoro 17

ƙafoli	sɔɔlen	jatesigi
Npiye ni jele ka mangoro karilen hake ye:		12
mangoro 12 + mangoro 5 =	mangoro	+ 5
	17	=17

Jaabi: mangoro 17

Gejuma fa ye dorome 11 da ma, a ba ye dorome 3 da ma, a koroke ye dorome 5 da ma.

Dorome joli be Gejuma bolo?

Mun jininkali kera an na? Jatesigi suguya jumen ba to an bo soro?

$d\bar{a}r\bar{a}m\bar{e} 11 + d\bar{a}r\bar{a}m\bar{e} 3 + d\bar{a}r\bar{a}m\bar{e} 5 = d\bar{a}r\bar{a}m\bar{e} 19$

Marata: Kafoli b' a to an be wari, jiridenw, kayew, m\bar{a}g\bar{a}w, walanninw walima fen werew hake d\bar{a}n .

Dalajatew:

- 1 - Mangoro 4 be Nci bolo. Ngolo ye mangoro 3 d' a ma. Mangoro joli be Nci bolo?
- 2 - jele ye kamifan 5 t\bar{a}m\bar{a} kunun. Bi a ye kamifan 4 t\bar{a}m\bar{a}. jele ye kamifan joli t\bar{a}m\bar{a}?

Jatesebentaw: A' ye jatesigiw jaabi jini.

- $12 + 5 = \#$ ye $d\bar{a}r\bar{a}m\bar{e} 13 + d\bar{a}r\bar{a}m\bar{e} 5 = \#$ ye
- $14 + 4 = \#$ ye $m\bar{a}g\bar{a} 14 + m\bar{a}g\bar{a} 3 = \#$ ye
- $15 + 2 + 1 = \#$ ye $misi 6 + misi 2 = \#$ ye
- $16 + 3 = \#$ ye $manje 12 + manje 6 = \#$ ye

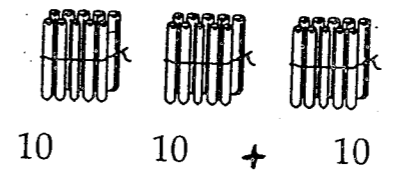
Jatejiniw

- 1. Lenburu 14 be Nci bolo. A k\bar{a}r\bar{a}ke ye lenburu 5 d' a ma. Lenburu joli be Nci bolo?
- 2. j\bar{a}g\bar{o}silaw ye j\bar{a}b\bar{a}re 10 bila jigine k\bar{o}n\bar{a} kunun. Bi u ye j\bar{a}b\bar{a}re 7 bila a k\bar{o}n\bar{a}. B\bar{a}re joli bilala jigine k\bar{o}n\bar{a}?
- 3. Zan ye walannin 11 bila Karam\bar{a}g\bar{a} ka tabali kan. Ngolo fana ye walannin 5 bila a kan. Walannin joli be Karam\bar{a}g\bar{a} ka tabali kan?
- 4. Sidi ye tiiricilan san d\bar{a}r\bar{a}m\bar{e} 10, ka j\bar{a}silan san d\bar{a}r\bar{a}m\bar{e} 5, ka gaalanin san d\bar{a}r\bar{a}m\bar{e} 3. Sidi ka fen sannenw benna d\bar{a}r\bar{a}m\bar{e} joli ma?
- 5. D\bar{a}r\bar{a}m\bar{e} 7 be Madu bolo. Sitan ka wari ka ca ni Madu ta ye ni d\bar{a}r\bar{a}m\bar{e} 2 ye. Sitan ka wari ye joli ye? Sitan ni Madu ka wari lajelen ye d\bar{a}r\bar{a}m\bar{e} joli ye?
- 6. Musa si ye san 8 ye. Fanta ka k\bar{a}r\bar{a} ni Musa ye ni san 3 ye. Ngolo fana ka k\bar{a}r\bar{a} ni Musa ye ni san 6 ye. Fanta si ye san joli ye? Ngolo si ye san joli ye?
- 7. M\bar{a}ngoro 9 be Abu bolo . Lamini ka mangoro ka ca ni Abu ta ye ni 5 ye. Lamini ka mangoro ye joli ye? Lamini ni Abu ka mangoro lajelen ye joli ye?

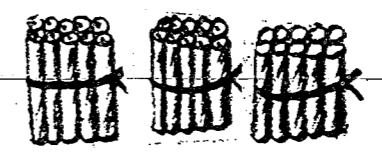
Ka b\bar{o} 20 na ka taa 40 na

Kunnajate: $6 + 2 = \#$ $3 + 2 = \#$ $10 + 2 = \#$ $12 + 2 = \#$
 $3 + \# = 5$ $9 + \# = 11$ $\# + 15 = 17$ $\# + 8 = 10$.

Ka b\bar{o} 20 na ka taa 30 la



Kalasinin fila be ta, ka jininkali ke: nin ye kalasinin joli ye? O ye bi joli ye? O be ben kala joli ma?
 O ye bi joli ye? O be ben kala joli ma?
 Kalasinin kelen were be ta: nin ye kala joli ye?
 O kala 10 be kafo kala 20 na. Kalasinin joli be n bolo? O ye bi joli ye? O be ben kala joli ma?



bi saba

Katimu cilen k\bar{o} walanba kan, kalasinin saba (bi saba) in be jira. Kalanden kelen be biw ta, k' u hake f\bar{o}, k' o seben katimu k\bar{o}n\bar{a}. Kalanden were be kelenw ta, k' u hake f\bar{o}, k' o seben katimu k\bar{o}n\bar{a}. Bi saba sebenscogo
 Bi saba be seben: 3 ka 0 seben, ka 0 seben o kinin fa.

biw	kelenw
3	0

Ka b\bar{o} 20 na ka taa 30 la: daw sebenscogo

Kala 30 (kalasinin 3) be jira, ka kala 1 b\bar{o} sirinin kelen na. Kalaw ye 30 ye wa? Biw ye joli ye? Kelenw dun? Bi fila ye kala joli ye? O ni kala 9 ye kala joli ye?
 Mugan ni k\bar{o}n\bar{a}n be seben: 2 ka 9 seben o kinin fa.
Ka b\bar{o} 30 la ka taa 40 na
 Daw be juni ka tila k' u seben i n' a f\bar{o} 30 ni 29 ta kera cogo min na.

Bi saba ni duuru

biw	kelenw
3	5

Bi saba ni wolonwula

biw	kelenw
3	7

Segesegeli

1. Kalandenw be da sebennenw kalan: 36; 27; 32; 23...
2. Daw be fo, kalandenw b'u seben walanninw kan.
3. Fila-fila walima duuru-duuru danni be ke ka bo 20 na ka taa 40 na.

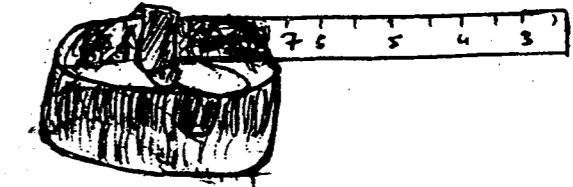
Meterε

Kunnajate: $16 + 2 = \#$ $23 + 2 = \#$ $11 + 2 = \#$ $28 + 2 = \#$
 $21 + \# = 23$ $\# + 28 = 30$

Meterε



meterε karikarita



meterε meleketa

Meterε siya saba be jira kalandenw na.

Marata: Meterε jeci ye janya sumani ye.

Walanba jjan, ani kalanso jjan be suma.

Walanba jjan janya ye meterε 2 (m 2) ye.

Kalanso jjan janya ye meterε 4 (m 4) ye.

Meterε kelen ye meterε tilakotan joli ye?

$m 1 = mtt 10$ ye

Degelifataw:

A' ye janya sumanikelan ninnu falen:

$m 2 = mtt \#$ ye $m 3 = mtt \#$ ye $m 4 = mtt \#$ ye.

Degelisbentaw:

1. Kalanden do kundama be suma k'a seben.

2. A' ye janya sumanikelan ninnu falen k'u seben.

$m 7 = mtt \#$ ye $m 5 = mtt \#$ ye $m 8 = mtt \#$ ye.

3. A' ye jatesigi jaabi pini.

$m 8 + m 2 = m \#$ ye $m 2 + mtt 5 = mtt \#$ ye

$m 12 + m 24 = m \#$ ye $m 3 + mtt 4 = mtt \#$ ye

$m 17 + m 2 = m \#$ ye $m 1 + mtt 7 = mtt \#$ ye

$m \# + m 5 = m 9$ ye $mtt 7 + mtt \# = m 1$ ye

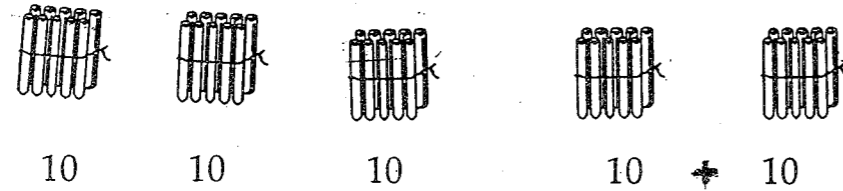
$m 1 + mtt 6 = mtt \#$ ye $mtt \# + mtt 4 = m 1$ ye

Ka bo 40 na ka taa 60 la

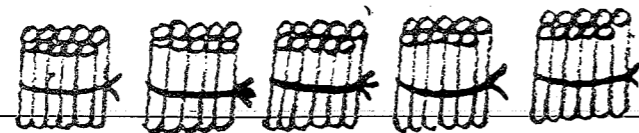
Kunnajate:

8-2=# 10-2=# 24-2=# 7-2=# 19-2=#.

Ka bo 40 na ka taa 50 la



Kalasinin naani be ta, ka pininkali ke: nin ye kalasinin joli ye?
 ye bi joli ye? be ben kala joli ma?
 Kalasinin kelen were be ta: nin ye kala joli ye?
 kala 10 be kafo kala 40 na. Kalasinin joli be n bolo? ye bi joli ye? be ben kala joli ma?



bi duuru

Katimu cilen ko walanba kan, kalasinin duuru (bi duuru) in be jira. Kalanden kelen be biw ta, k'u hake fo, k'o seben katimu konn. Kalanden were be kelenw ta, k'u hake fo, k'o seben katimu konn.

Bi duuru sebencogo:

Bi duuru be seben: 5, ka 0 seben o kinin fe

biw	kelenw
5	0

Ka bo 40 na ka taa 50 la: daw sebencogo

Kala 50 (kalasinin 5) be ta. Kala 1 be bo siri kelen na, ka pininkali ke: yala kala 50 de be n bolo wa? Biw ye joli ye? Kelenw ye joli ye?

biw	kelenw
4	9

Bi naani ni konnton be seben: 4, ka 9 seben o kinin fe.

Ka bo 50 la ka taa 60 la.

Daw be pini ka tila k'u seben i n'a fo 50 ni 49 ta kera cogo min na.

biw	kelew	biw	kelew	biw	kelew
6	0	5	9	5	7

Segesegeli:

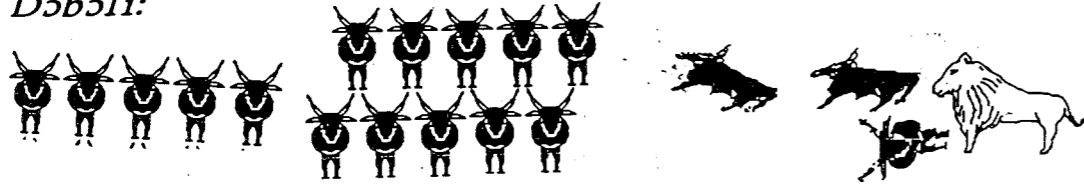
1. Kalandenw be da sebennenw kalan: 43; 51; 45; 54 ...
2. Daw be fo, kalandenw b'u seben walanninw kan.
3. Fila-fila, duuru-duuru walima tan-tan danni be ke ka bo 0 la ka taa 60 la.

Dɔ̀bɔ̀li: a nafaw

Kunnajate:

$12 + 3 = \#$ $16 + 3 = \#$ $26 + 3 = \#$ $32 + 3 = \#$ $6 + \# = 9$
 $15 + \# = 18$ $\# + 21 = 24$ $\# + 14 = 17$

Dɔ̀bɔ̀li:



Misi 18 tun be Npiye bolo. Waraba ye misi 3 faga u la. Npiye ka misiw to tora joli ye?

Mun jininkali kera an na? Jatesigi suguya jumen b'a to an b'o sɔ̀rɔ̀?

Jateminkecogo

Daw sigicogo be ke k'a je.

Dɔ̀bɔ̀li be damine kinin fe ka bo duguma ka taa sanfe.

Kelenw ka so: 3 bolen 9 na, o to ye 6 ye.

6 be seben kelenw ka so 3 jukɔ̀rɔ̀.

Biw ka so: O bolen 1 na, o to ye 1 ye. 1 be seben biw ka so 0 jukɔ̀rɔ̀.

$$\begin{array}{r} 18 \\ - 3 \\ \hline = 15 \end{array}$$

Jaabi: Misiw to ye 15 ye.

Kɔ̀lɔ̀sili: 18 - 3 be kalan 18 deselen ni 3 ye.

- Nci taara ni dɔ̀rɔ̀mɛ 15 ye sugu la k'a be filen san. Filentigi ko filen songo ye dɔ̀rɔ̀mɛ 17 ye. Dɔ̀rɔ̀mɛ joli be Nci ka wari je?

$$\begin{array}{r} 17 \\ - 15 \\ \hline = 2 \end{array}$$

Jaabi: Dɔ̀rɔ̀mɛ 2 be Nci ka wari je.

Marata: Dɔ̀bɔ̀li b'a to fen do to hake be don walima a b'a to an b'a don da deselen be ni hake min ye.

Degelifotaw:

1. njomikun 8 tun be Fanta bolo, a ye 3 dun. njomikun to tora joli ye?

2. Sebennikelan songo ye dɔ̀rɔ̀mɛ 7 ye, dɔ̀rɔ̀mɛ 4 de be Ali bolo. Joli be Ali ka wari je?

Jatesebentaw: A' ye jatesigiw jaabi jini.

$43 - 23 = \#$ $49 - 24 = \#$ $57 - 42 = \#$ $48 - 35 = \#$
 $57 - 42 = \#$

$mtt 48 - mtt 28 = \#$ $m 35 - m 21 = \#$ $mtk 56 - mtk 32 = \#$
 $dɔ̀rɔ̀mɛ 45 - dɔ̀rɔ̀mɛ 13 = \#$ $mɔ̀gɔ 39 - mɔ̀gɔ 8 = \#$

Jatepiniw:

1. Dɔ̀rɔ̀mɛ 56 tun be Nci bolo, a ye kaye san dɔ̀rɔ̀mɛ 24. Nci ka wari to tora joli ye?

2. Kamifan 39 tun be Sitan bolo, kamifan 14 cira. Sitan ka kamifan to ye joli ye?

3. Karamogɔ ko kalanden kelen o kelen ka na ni belekise 28 ye. jele ye belekise 17 de sɔ̀rɔ̀. Belekise joli be jele ta je?

4. Kalanden 45 tun be kalanso naaninan kɔ̀nɔ̀ salon. jinan, kalanden 45 de bora olu la ka taa kalanso duurunan na. Kalanden joli tora ko?

5. Dɔ̀rɔ̀mɛ 49 tun be Kalifa bolo. A ye dɔ̀rɔ̀mɛ 25 di Kotine ma, ka dɔ̀rɔ̀mɛ 12 di Kariba ma.

Kalifa ye dɔ̀rɔ̀mɛ joli di? A ka wari to ye joli ye?

6. Sira min be kalanyoro ni siraba ce o janya ye metere 59 ye. Kunun kalandenw ye metere 36 dilan sira in na. Metere joli tora dilanbali ye?

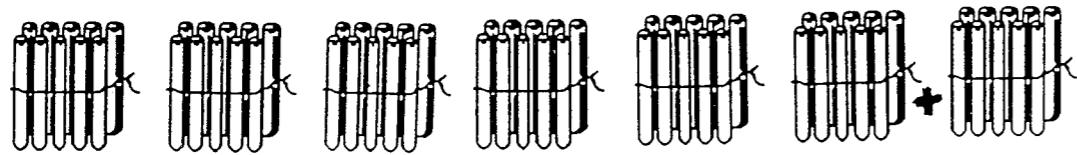
7. Bajalan min be Gejuma ka maloforo kɔ̀nɔ̀, o janya ye metere 57 ye. Kunun, Gejuma n'a ka denbaya ye metere 21 kɔ̀nɔ̀ dilan bajalan in na. Bi, u ye metere 23 kɔ̀nɔ̀ dilan. Metere joli dilanna? Metere joli tora dilanbali ye?

Ka bo 60 la ka taa 80 na

Kunnajate: 20 + 3 = # 42 + 3 = # 35 + 3 = # 23 + 3 = #

+ 15 = 18 20 + # = 23 # + 35 = 38 43 + # = 46

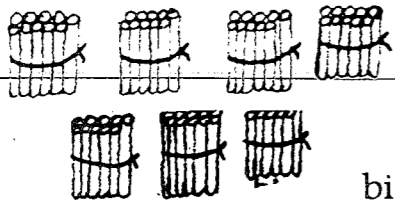
Ka bo 60 la ka taa 70 la



Kalasinin wɔɔɔ be ta, ka pininkali ke: nin ye kalasinin joli ye? ye bi joli ye? be ben kala joli ma?

Kalasinin kelen wɛɛ be ta: nin ye kala joli ye? kala 10 be kafo kala 60 la.

Kalasinin joli be n bolo? ye bi joli ye? be ben kala joli ma?



bi wolonwula

Katimu cilen ko walanba kan, kalasinin wolonwula (bi wolonwula) in be jira. Kalanden kelen be biw ta, k'u hake fo, k'o sɛben katimu kɔɔ. Kalanden wɛɛ be kelenw ta, k'u hake fo k'o sɛben katimu kɔɔ.

biw	kelenw
7	0

Bi wolonwula sɛbencogo:

Bi wolonwula be sɛben: 7 ka 0 sɛben o kinin fe.

Ka bo 60 ka taa 70 la: daw sɛbencogo

Kala 70 (kalasinin 7) be jira, ka kala 1 bo sirinin kelen na. Kalaw ye 70 ye wa? Biw ye joli ye? Kelenw dun? Bi wɔɔɔ ye kala joli ye? ni kala 9 ye kala joli ye?

biw	kelenw
6	9

Bi wɔɔɔ ni kɔɔɔɔɔ be sɛben: 6 ka 9 sɛben o kinin fe

Ka bo 70 la ka taa 80 na:

Daw be jini ka tila k'u sɛben i n'a fo 70 ni 69 ta kɛra cogo min na.

biw	kelen	biw	kelen	biw	kelen
	w		w		w
8	0	7	9	7	3

Sɛgesɛgeli:

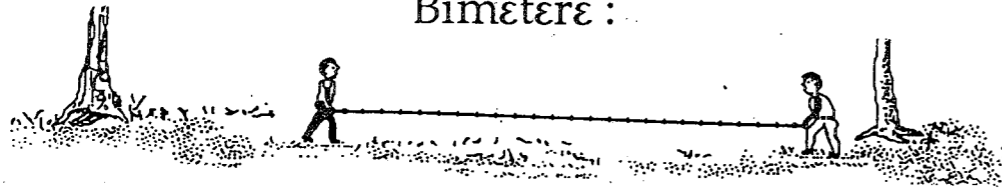
1. Kalandenw be da sɛbennɛnw kalan: 68; 74; 61; 78; 67; 76...
2. Daw be fo, kalandenw b'u sɛben walanninw kan.
3. Fila-fila, duuru-duuru, tan-tan danni ke ka bo 0 la ka taa 80 na.

Bimeterɛ : sumanijɔɔkɔ

Kunnajate:

21+2=# 13+3=# 24+2=# 45+3=# 64+3=#
 76+2=# 56+3=# 34+#=36 45+#=47 #+35=38

Bimeterɛ :



Bɔɔ fɔɔ bɛ turu. Tiiri jan tilennen bɛ ci ka bɔ bɔɔ in na. Tiiri in janya bɛ suma ni meterɛ ye. Meterɛ suma ko tan mana sɔɔ, bɔɔ wɛrɛ bɛ turu.

Bɔɔ filaw furance janya ye meterɛ joli ye?

Bɔɔ filaw furance ni sumanijɔɔkɔ janya bɛ sanga jɔɔɔn ma.

Sumanijɔɔkɔ janya ye meterɛ joli ye?

Marata: Sumanijɔɔkɔ janya ye meterɛ 10 ye.

Meterɛ 10 bɛ wele bi meterɛ.

Bimeterɛ bɛ seben ka surunya: bim.

bim 1 =m 10 ye

bim	m
1	0

Degelifɔtaw: A' y' u bayɛɛma.

bim 3 =m # ye m 40 =bim # ye bim 6 =m # ye
 bim 8 =m # ye m 70 =bim # ye m 50 =bim # ye
 m 56 =bim # ni m # ye m 84 =bim # ni m # ye
 m 27 =bim # ni m # ye

Jatesɛbentaw : A' ye jatesigiw jaabi jini

bim 38 + bim 21 =bim # ye bim 25 + bim # =bim 40 ye
 bim 75 - bim 24 =bim # ye bim 16 - bim # =bim 10 ye
 bim 1 + m 3 =m # ye bim # + bim 12 =bim 36 ye
 m 69 - bim 4 =m # ye bim 2 + m # =m 27 ye
 m 23 + bim 5 =m # ye m 75 - bim 3 =m # ye
 m 35 - bim 5 =m # ye bim 69 - bim 45 =bim # ye
 m 26 =bim # + m # la ye m 37 =bim # + m # la ye
 m 54 =bim # + m # la ye.

Jateɛnini:

1. Fini bim 69 tun bɛ jele bolo. A ye bim 37 di a dɔɔkɛ ma. jele ka fini to ye bimeterɛ joli ye?
2. Kunun, neɛejuru bim 37 kɛra ka kalanyɔɔɔ nako lamini. Bi, neɛejuru bim 42 kɛra k'a sinsana to lase. Neɛejuru bimeterɛ joli kɛra ka kalanyɔɔɔ nako lamini?
3. Karamɔɔ ye farikolojɛnajeɔɔɔ lamini suma. A benna sumanijɔɔkɔ jɛ 8 ma. Farikolojɛnajeɔɔɔ lamini janya ye meterɛ joli ye?
4. Ka bɔ Ngolo ka so ka taa sugu la, o janya ye bim 3 ni m 5 ye; ka bɔ sugu la ka taa kalanyɔɔɔ, o janya ye bim 4 ni m 3 ye. Ngolo ka so ni kalanyɔɔɔ furance janya ye meterɛ joli ye?
5. Yɔɔ ye juru bim 2 ni m 3 san, a dɔɔkɛ fana ye juru bim 1 ni m 4 san. Yɔɔ n'a dɔɔkɛ ye juru meterɛ joli san?
6. Jarakɛ ye fini bim 4 ni m 7 san. A ye fini in bim 1 ni m 4 d'a musow ma, k'a bim 2 ni m 3 d'a denw ma. Jarakɛ ye fini meterɛ joli d'a ka denbaya ma? Fini to tora meterɛ joli ye Jarakɛ bolo?

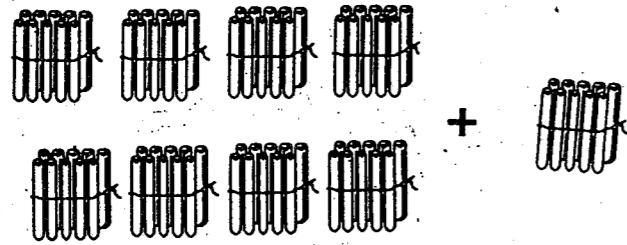
Ka bo 80 na ka taa 99 na

Kunnajate:

$$8 - 3 = \# \quad 7 - 2 = \# \quad 9 - 3 = \# \quad 5 - 2 = \#$$

$$9 - \# = 7 \quad 5 - \# = 2 \quad \# - 3 = 5 \quad \# - 2 = 3.$$

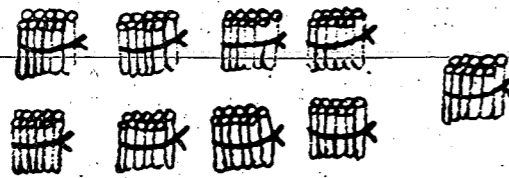
Ka bo 80 na ka taa 90 na



Kalasinin seegin be ta, ka jininkali ke: nin ye kalasinin joli ye? O ye bi joli ye? O be ben kala joli ma?

Kalasinin kelen wera be ta: nin ye kala joli ye? O kala 10 be kafo kala 80 na.

Kalasinin joli be n bolo? O ye bi joli ye? O be ben kala joli ma?



Katimu cilen ko walanba kan, kalasinin konoton (bi konoton) in be jira. Kalanden kelen be biw ta, k u hake fo, k o seben katimu konon. Kalanden wera be kelenw ta, k u hake fo k o seben katimu konon.

biw	kelenw
9	0

Bi konontan sebencogo

Bi konontan be seben: 9, ka 0 seben o kinin fe.

Ka bo 80 na ka taa 90 na: daw sebencogo

Kala 90 (kalasinin 9) be ta, ka kala 1 bo sirinin kelen na. Kalaw ye 90 ye wa? Biw ye joli ye? Kelenw dun? Bi seegin ye kala joli ye? O ni kala 9 ye kala joli ye?

biw	kelenw
8	9

Bi seegin ni konontan be seben: 8, ka 9 seben o kinin fe.

Ka bo 90 na ka taa 99 na:

Kala 1, 2, 3 walima 9 be kafo 90 na, ka daw fo, ka tila k'u seben.

biw	kelen	biw	kelen	biw	kelen
	w		w		w
9	1	9	3	9	9

Segesegeli:

1. Kalandenw be da sebennonw kalan: 86; 94
2. Daw be fo, kalandenw b u seben walanninw kan.

Kafoli: marata te min na.

Kunnajate: $25 + 4 = \#$ $17 + 3 = \#$ $37 + 2 = \#$ $15 + 3 = \#$

Kafoli



Filen fila be Fanta bolo. Mangoro 45 be filen folo kono, mangoro 23 be filen filanan kono.

Mangoro joli be Fanta bolo?

Mun pininkali kera an na?

Jate suguya jumen b'a to an b'o soro?

Joli be kafo joli la?

$$\begin{array}{r} 45 \\ + 23 \\ \hline = 68 \end{array}$$

Jaabi: mangoro 68 be Fanta bolo:

Zan ye baara ke kosobe jogondan senfe. A fa ye dorome 40 d'a ma, a ba ye dorome 12 d'a ma, a koroke ye dorome 6 d'a ma.

Dorome joli be Zan bolo?

Mun pininkali kera an na?

Jate suguya jumen b'a to an b'o soro?

$$\begin{array}{r} 40 \\ + 12 \\ + 6 \\ \hline = 58 \end{array}$$

Jaabi: Dorome 58 be Zan bolo.

Degelifotaw:

1. Zan ye jerge 10 min. Ngolo fana ye 7 min. Zan ni Ngolo ye jerge joli min?

2. Kalanso kono, kalanden saman ye 12 ye, musoman ye 7 ye. Kalanden joli be kalanso kono?

Jatesebentaw: A' ye jatesigiw jaabi jini.

dorome 86 + dorome 13 = dorome # ye

mangoro 41 + mangoro 23 + mangoro 5 = mangoro # ye

mogo 54 + mogo 11 + mogo 22 = mogo # ye

kala 32 + kala 46 = kala # ye

43 + 32 = # ye

71 + 6 + 11 = # ye

Jatepiniw:

1. Kalanden 36 be kalanso folo kono, kalanden 22 be kalanso filanan kono, kalanden 20 be kalanso sabanan kono.

Kalanden joli be kalanyoro in na?

2. Dorome 21 tun be jele bolo, a fa ye dorome 16 d'a ma. Dorome joli be jele bolo sisan?

3. Kalanso folo kalandenw ye jiri 12 turu, filanan taw ye jiri 21 turu, sabanan taw ye jiri 25 turu, naaninan taw ye jiri 31 turu. Jiri joli turula?

4. Dorome 31 be Zan bolo. Zan koroke ka wari ka ca ni Zan ta ye ni dorome 14 ye. Zan koroke ka wari ye joli ye? U mogo fila ka wari ye joli ye?

5. Nci ye tigabore 24 ni jobore 12 bila mangasan kono. A dogoke fana ye tigabore 21 ni jobore 11 bila o mangasan kelen kono.

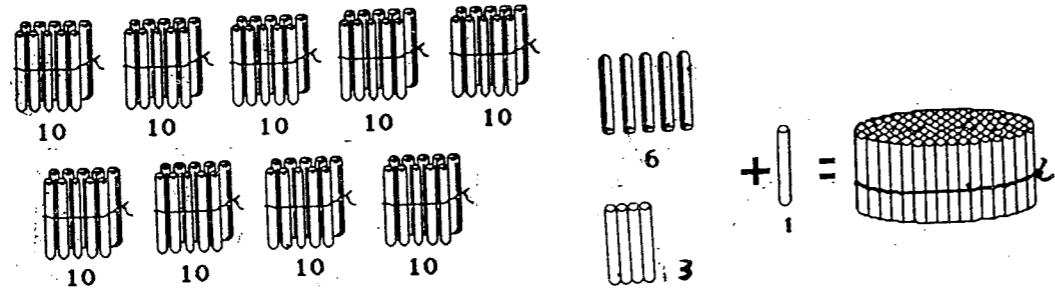
Tigabore joli bilala mangasan kono? jobore joli bilala a kono? Bore be lajelen ye joli ye?

6. Setigi ye fini m 21 san a musow ye, ka a m 34 san a denw ye. Setigi ka fini sannan benna metere joli ma?

Ƙεmε: 100

Kunnajate : 8 - 4 = # 14 - 4 = # 10 - 4 = # 6 - 4 = #
 16 - 4 = # 37 - 4 = # 28 - 4 = # 4 - 4 = #

Ƙεmε: 100



Ƙala 99 (ƙalasinirin 9 ni ƙala 9) bε ta: biw ye joli ye? Ƙelenw dun? O ye ƙala joli ye?

Ƙala 1 bε ƙafo ƙala 99 in na: biw ye joli ye? Ƙelenw dun?

Ƙala 10 ninnu bε siri k'u ƙε bi ƙelen ye.

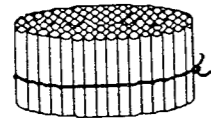
Sisan, biw ye joli ye?

Bi 10 bε wele ƙεmε.

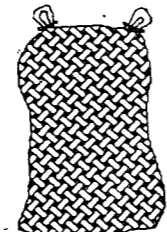
Ƙala 1 ƙafo ƙala 99 na o ye ƙala ƙεmε ye.

Ƙala ƙεmε bε siri: nin siriba ye ƙala joli ye?

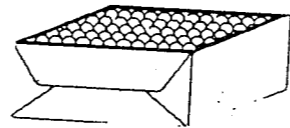
Marata: Siriba 1 ye ƙala ƙεmε ye.



ƙala 100



malo kilo 100



gaala 100

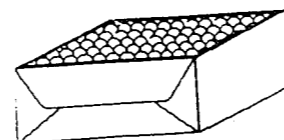
Ƙatimu cilen ƙo walanba ƙan, ƙaramoƙo bε ƙala siriba (ƙala ƙεmε) in jira: nin ye ƙala joli ye?

Ƙalanden bε ƙεmεw ta, k'u hake fo, k'o seben ƙatimu ƙoƙo.

Ƙalanden filanan bε biw ta, k'u hake fo, k'o seben ƙatimu ƙoƙo.

Ƙalanden sabanan bε ƙelenw ta, k'u hake fo, k'o seben ƙatimu ƙoƙo.

ƙε	bi	ƙε
1	0	0



gaala 100

Ƙεmε sebensogo:

Ƙεmε bε seben: 1, ƙa 0 fila seben o ƙinin fe.

Segegegeli:

1. Ƙalandenw bε daw sebensen ƙalan.

2. Ƙaramoƙo bε daw fo, ƙalandenw b'u seben.

3. Tan-tan walima duuru-duuru danni bε ƙε ƙa bo 0 la ƙa taa 100 la.

Dɔbɔli: marata tɛ min na.

Kunnajate: 7-4=# 14-4=# 8-4=# 10-4=#
15-3=# 20-2=# 18-3 # 26-4=#

Dɔbɔli



Kɔɔmuso ni lenburu 65 taara sugu la. Lenburu 42 sanna o la. Kɔɔmuso ka lenburu tɔ tora joli ye?

Mun pininkali kɛra an na?

Jate suguya jumɛn b'a to an b'o sɔrɔ?

Joli bɛ bɔ joli la? 65
 - 42
 = 23

Jaabi: Lenburu tɔ tora 23 ye.

Degelifɔtaw:

1. Dɔrɔmɛ 17 tun bɛ Musa bolo, dɔrɔmɛ 6 binna a kɔ. Musa ka wari tɔ tora joli ye?

2. ɛmɔmikun 9 dira jele ma, a ye 5 dun. ɛmɔmikun tɔ tora joli ye?

3. Mangoro 7 bɛ Zan bolo, mangoro 10 bɛ Nci bolo. Nci ka mangoro ca ni Zan ta ye ni joli ye?

Jatesɛbɛntaw: A' ye jatesigiw jaabi jini.

58 - 38=# 35 - 12=# 59 - 7=# 96 - 24=# 46 - 46=#
m 98 - m 73 =m # ye bim 85 - bim 64 =bim # ye
mtt 68 - mtt 9 =mtt # ye dɔrɔmɛ 52 - dɔrɔmɛ 32 =dɔrɔmɛ # ye
mtk 79 - mtk 56 =mtk # ye

Jatepiniw:

1. jele taara ni tulukun 58 ye sugu la. Tulukun 35 sanna. jele ka tulukun tɔ tora joli ye?

2. Zan si ye san 79 ye, a dɔgɔkɛ si ye san 68 ye. San joli bɛ Zan n'a dɔgɔkɛ cɛ?

3. Gafe sɔngɔ ye dɔrɔmɛ 98 ye. Dɔrɔmɛ 82 de bɛ Bakari bolo. Dɔrɔmɛ joli bɛ Bakari ka wari jɛ?

4. Kalanden 59 bɛ kalanso dɔ kɔnɔ. Kalanden cɛman ye 32 ye. Kalanden musoman ye joli ye?

5. ɛmɔmikun 48 tun bɛ Npiye bolo. A ye kun 23 d'a dɔgɔkɛw ma, ka kun 15 d'a dɔgɔmusow ma. Npiye ye ɛmɔmikun joli d'a dɔgɔw ma? ɛmɔmikun tɔ tora joli ye?

6. Dɔrɔmɛ 52 bɛ Araba bolo, a b'a fɛ ka musɔrɔ san min sɔngɔ ye dɔrɔmɛ 65 ye. Dɔrɔmɛ joli bɛ Araba ka wari jɛ?

7. Dɔgɔtɔrɔso ni siraba furancɛ janya ye m 99 ye. Kunun, sirabaaralaw ye m 21 labɛn, ka m 34 labɛn bi. Sirabaaralaw ye mɛtɛrɛ joli labɛn? U tɔ ye mɛtɛrɛ joli ye?

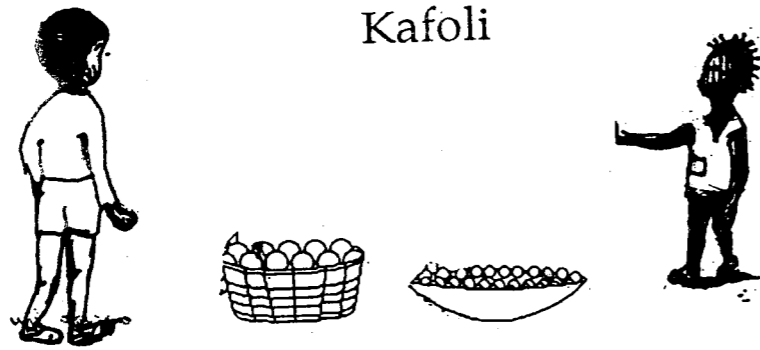
8. Sɛ 78 tun bɛ sɛfeerela Madu bolo. A ye sɛ 35 feere. Sɛ joli tora a bolo?

9. Dɔrɔmɛ 47 bɛ Ali bolo. A ye dɔrɔmɛ 22 dun. Dɔrɔmɛ joli tora a bolo?

Kafoli: marata be min na.

Kunnajate: $4 + 5 = \#$ $6 + 5 = \#$ $12 + 5 = \#$ $34 + 5 = \#$
 $12 + 4 = \#$ $23 + 2 = \#$ $12 + 3 = \#$ $32 + 5 = \#$

Kafoli



Sata ye kamifan 49 tamo kungo koro, a dogoke fana ye kamifan 37 tamo. Kamifan joli be Sata n'a dogoke bolo?

Mun pininkali kera an na?

Jatesigi suguya jumen b'a to an b'o soro? Joli be kafo joli la?

Jatesigi kecogo:

Daw sigicogo be ke k'a je.

Kelenw ka so: 9 kafo 7 la, o ye 16. 16 ye jateden fila ye. Jateden fila te seben-so kelen koro.

6 min ye kelen ye, o be seben kelenw ka so, 7 jukoro 49
 1 min ye bi ye, o be mara. $\begin{array}{r} +37 \\ =86 \end{array}$

Biw ka so: 1 maralen kafo 4 na o ye 5 ye. 5 kafo 3 la, o ye 8 ye. 8 be seben biw ka so 3 jukoro.

Jaabi: Kamifan 86 be Sata n'a dogoke bolo.

Focogo surun: 9 kafo 7 la o ye 16 ye, N be 6 seben kelenw ka so ka 1 mara. 1 maralen kafo 4 na o ye 5 ye, 5 kafo 3 la o ye 8 ye. N be 8 seben biw ka so.

Jatesebentaw: A' ye jatesigiw jaabi jini.

$46 + 28 = \#$ $37 + 54 = \#$ $45 + 29 + 18 = \#$ $27 + 51 + 9 = \#$
 $m 27 + m 35 = m \#$ ye bim 59 + bim 24 = bim # ye m 45 +
 $m 32 + 16 = \#$ ye bim 28 + bim 45 + bim 7 = bim # ye

Jatejiniw:

1. Selidon Madu moke ye dorome 37 d'a ma, a benke ye dorome 25 d'a ma, a tenenmuso ye dorome 18 d'a ma. Dorome joli be Madu bolo?

2. jele ye kaye san dorome 56, ka walannin san dorome 38. jele k' a minenw benna dorome joli ma?

3. Nci ye kamifan 34 tamo. Nco ye kamifan 28 tamo. Kamifan joli be Nci ni Nco bolo?

4. Gejuma ka kulusi sanna dorome 38. A ka duloki songo ka ca ni kulusi songo ye ni dorome 17 ye. Duloki songo ye joli ye? Kulusi ni duloki songo ye joli ye?

5. Umu ye musoro san dorome 37, a ka wari to tora dorome 29 ye. Dorome joli tun be Umu bolo?

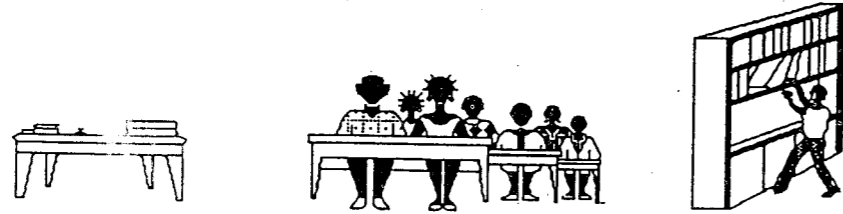
6. Babilen ye bim 59 boli k'i jo Ngolo koro. Ngolo ye bim 38 boli k'i jo Nco koro. Nco fana ye bim 27 boli. Babilen ni Ngolo ni Nco ye bim joli boli?

7. Kalanso folo kalandenw ye jiri 17 turu, filanan taw ye jiri 35 turu, sabanan taw ye jiri 38 turu. O y'a soro jiri 8 turulen don ka koro. Jiri joli be kalanso kene kan?

Dɔ̀bɔ̀li: marata bɛ min na.

Kunnajate: 7-3=# 8-5=# 19-4=# 25-5=#

Dɔ̀bɔ̀li



Gafe 52 tun bɛ Karamɔ̀gɔ̀ bolo, a ye gafe 35 di kalɔ̀ndenw ma. Gafe tɔ̀ tora joli ye Karamɔ̀gɔ̀ bolo?

Mun pininkali kɛra an na?

Jate suguya jumɛn b'a to an b'o sɔ̀rɔ̀?

Joli bɛ bɔ̀ joli la?

Jateminɛ kɛcogo:

Daw bɛ sigi k'a jɛ.

Kelenw ka so: 5 bɔ̀ 2 la, o tɛ se ka kɛ, n bɛ bi kelen kafo 2 la, o ye

12 ye	52
5 bɔ̀lɛn 12 la, o tɔ̀ ye 7 ye. N bɛ 7 sɛbɛn	-35
Kelenw ka so 5 jukɔ̀rɔ̀, ka tila ka 1 mara	=17

Biw ka so: 1 maralen, kafo 3 la, o ye 4 ye. 4 bɔ̀lɛn 5 la, o tɔ̀ ye 1 ye.

1 bɛ sɛbɛn biw ka so 3 jukɔ̀rɔ̀.

Jaabi: gafe tɔ̀ tora 17 ye.

Jatesɛbɛntaw: A' ye jatesigiw jaabi jini.

52 - 44 =# ye m 40 - m 14 =m # ye

35 - 7 = # ye bim 53 - bim 6 =bim # ye

97 - 39 =# ye mtk 74 - mtk 36 =mtk # ye

55 - 8 =# ye dɔ̀rɔ̀mɛ 75 - dɔ̀rɔ̀mɛ 58 =dɔ̀rɔ̀mɛ # ye

90 - 18 =# ye mtk 32 - mtt 9 =mtt # ye

Jatejiniw :

1. Umu taara ni kamifan 84 ye sugu la, a ye kamifan 46 feere, Umu ka kamifan tɔ̀ tora joli ye?

2. Dɔ̀rɔ̀mɛ 75 tun bɛ Zan bolo, a ye walannin san dɔ̀rɔ̀mɛ 36. Dɔ̀rɔ̀mɛ joli tora Zan bolo?

3. Gejuma b'a fɛ ka duloki dɔ̀ san min songɔ̀ ye dɔ̀rɔ̀mɛ 72 ye, nka dɔ̀rɔ̀mɛ 52 de b'a bolo. Dɔ̀rɔ̀mɛ joli bɛ Gejuma ka wari jɛ?

4. jele ye musɔ̀rɔ̀ san dɔ̀rɔ̀mɛ 65, a ye dɔ̀rɔ̀mɛ 80 di feerekɛla ma. Feerekɛla ka kan ka joli segin jele ma?

5. Ngolo si ye san 35 ye. A si ka ca n'a muso ta ye ni san 7 ye. Ngolo muso si ye san joli ye?

6. Kalanden 100 bolo ka kan ka ci. Kalanden 45 bolo cira sɔ̀gɔ̀ma, ka 38 bolo ci wula fɛ. Kalanden joli bolo cira? Kalanden joli bolo ma ci?

7. Selidon, Fanta fa ye dɔ̀rɔ̀mɛ 27 d'a ma, a mɔ̀kɛ ye dɔ̀rɔ̀mɛ 24 d'a ma, a bɛnkɛ ye dɔ̀rɔ̀mɛ 35 d'a ma. Fanta ye kɔ̀nɔ̀n san dɔ̀rɔ̀mɛ 22, ka bololanɛgɛ san dɔ̀rɔ̀mɛ 17. Dɔ̀rɔ̀mɛ joli dira Fanta ma? Fanta ka fɛn santaw bɛnna dɔ̀rɔ̀mɛ joli ma? Fanta ka wari tɔ̀ tora joli ye?

8. Kalanden 34 bɛ kalanso folɔ̀ kɔ̀nɔ̀, 32 bɛ filanan kɔ̀nɔ̀, 30 bɛ sabanan kɔ̀nɔ̀. Bi, kalanden 9 ma na kalanso folo kalandenw na, 5 ma na filanan taw la, 4 ma na sabanan taw la. Kalanden joli ma na kalanyɔ̀rɔ̀ la bi? Joli nana?

Litiri

Kunnajate: $3 + 5 = \#$ $14 + 5 = \#$ $7 + 5 = \#$ $32 + 5 = \#$
 $5 + \# = 8$ $9 + \# = 14$ $\# + 8 = 13$

Litiri



Litiri dundelama be fa ji la k'o yeɓema litiri nɛgelama kɔnɔ. Mun be kɔɓsi?

Litiri nɛgelama be fa cɛncɛn na k'o yeɓema litiri jirilama kɔnɔ. Mun be kɔɓsi?

Kɔɓsi: Litiri sabaw fa hake ye kelen ye. U kelen o kelen fa ye litiri kelen ye.

Litiri kelen be sɛben ka surunya: 11

Litiri fa ji jɛ damado be yeɓema palan kɔnɔ: ji litiri joli kɛra palan kɔnɔ?

Degelisɛbɛntaw: $125 + 134 = 1 \#$ ye $156 - 118 = 1 \#$ ye
 $184 + 119 = 1 \#$ ye $186 - 17 = 1 \#$ ye $165 = 117 = 1 \#$ ye
 $154 - 128 = \#$ ye

Jatejiniw:

1. Nɔnɔ 125 tun be fuɓamuso ka filen kɔnɔ. ɔ sen talonnen, nɔnɔ 17 bɔnna. Nɔnɔ litiri joli tora filen kɔnɔ?

2. Sanba ka barigon fa ji ka kan ka ben 198 ma. Denmisɛnw sera ka ji 178 de ke barigon in kɔnɔ. Litiri joli be barigon jɛ fali la?

3. Dugu denmisɛnw ye jinjinbere 153 dilan u ka jɛnaje kama. Dugutigi ye jinjinbere 128 d u ma, musokuntigi fana ye jinjinbere 115 d u ma. Jinjinbere litiri joli be denmisɛnw bolo?

4. Ka bo Bamako ka taa Segu Musa ka mobili ye taji 125 jeni. Ka bo Segu ka taa Motti mobili kelen in ye taji 132 jeni. Musa ka mobili ye taji litiri joli jeni Bamako ni Motti ce?

5. Pulɔ ka misiw nɔnɔ bɛnna 12 ma. A ye litiri 2 ke dumuni na, ka 15 d a musow ma. A tilala ka nɔnɔ to feere, litiri kelen o kelen dɔrɔmɛ 20.

Pulɔ ye nɔnɔ litiri joli bo nɔnɔ sɔrɔlen na? A ye litiri joli feere? O bɛnna dɔrɔmɛ joli ma?

6. Ji litiri 18 be gongon kɔnɔ. Litiri 10 ani litiri 4 bɔra a la. Ji litiri joli tora gongon kɔnɔ?

7. Nɔnɔ litiri 75 be Madu bolo. A ye 122 feere. Nɔnɔ litiri joli tora a bolo?

Ci cogoyaw: ci dalen, ci jɔlen, ci jɛngelen

Kunnajate: $9 + 5 = \#$ $7 + 5 = \#$ $12 + 5 = \#$ $23 + 5 = \#$ $52 + 5 = \#$

Ci cogoyaw



ci dalen

ci jɔlen

ci jɛngelen

Ci sabaw cogoya ye kelen wa?

Ci fɔɔ dalen don: a bɛ wele ci dalen

Ci filanan ye ci dalen ye wa? A bɛ cogo di?

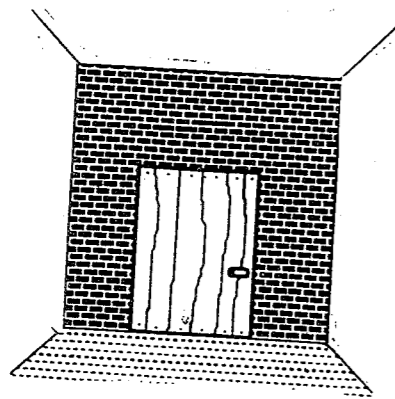
Ci filanan jɔlen don: a bɛ wele ci jɔlen.

Ci sabanan ye ci dalen ye wa? Ci jɔlen don wa? A bɛ cogo di?

Ci sabanan jɛngelen don: a bɛ wele ci jɛngelen.

Ci saba ninnu kelen o kelen misali dɔw bɛ jira kalanso kɔnɔ.

Degeli: Ci min tɔgɔ mana fɔ, kalandenw b'o ci kɛ u ka walanninw kan.

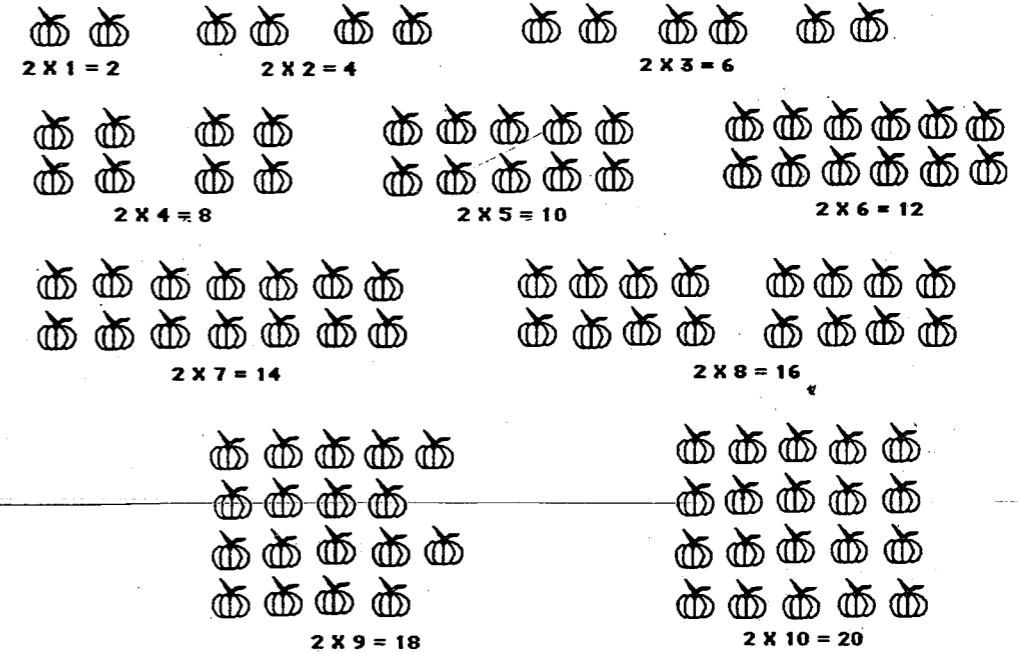


2 Sigiyaɔmakatimu

Kunnajate: $9 + 2 = \#$ $3 + 2 = \#$ $7 - 4 =$ $8 + 2 =$ $5 + 3 = \#$

2 Sigiyaɔmali

Kala, walannin, tiiricilan walima fen wɛrɛ 2 sigiyaɔɔma 1, 2, 3...4 bɛ di kalanden ma: kala 2 sigiyaɔɔma joli bɛ kalanden bolo? O ye kala joli ye?



$2 \times 1 = 2$
 $2 \times 2 = 4$
 $2 \times 3 = 6$
 $2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$
 $2 \times 10 = 20$

5 Sigiyaɗamakati

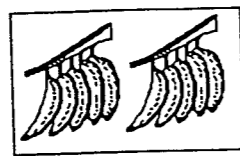
Kunnajate: 7-5=# 8-5=# 15-5=# 25-5=#
30-5=# 45-5=# 40-5=# 60-5=# 65-5=#

5 Sigiyaɗamali

Kala, walannin, tiiricilan walima fen wɛɛ 5 sigiyaɗama 1, 2, 3.....10 bɛ di kalanden ma: kala 5 sigiyaɗama joli bɛ kalanden bolo? O ye kala joli ye?



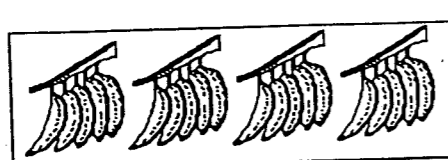
$$5 \times 1 = 5$$



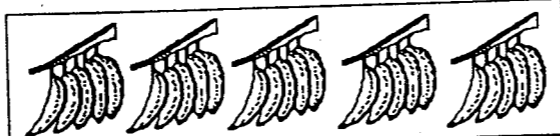
$$5 \times 2 = 10$$



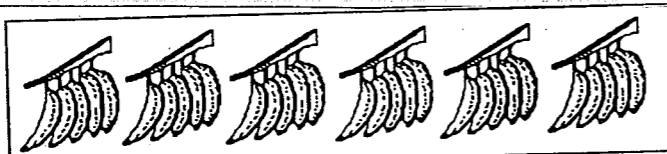
$$5 \times 3 = 15$$



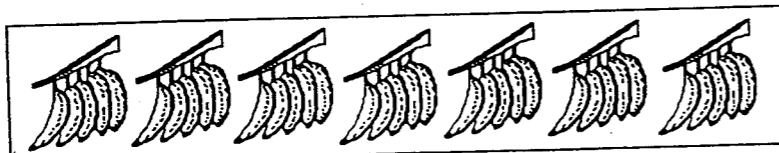
$$5 \times 4 = 20$$



$$5 \times 5 = 25$$

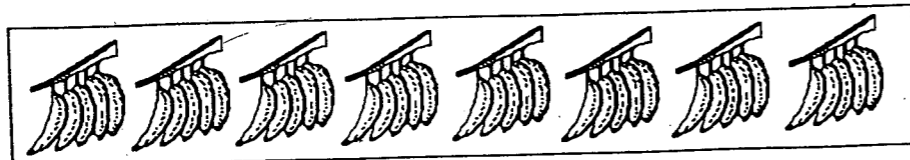


$$5 \times 6 = 30$$



$$5 \times 7 = 35$$

$$5 \times 10 = 50$$



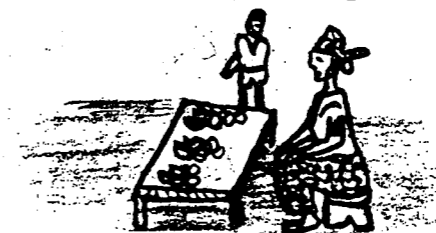
$$5 \times 8 = 40$$

$$\begin{aligned} 5 \times 1 &= 5 \\ 5 \times 2 &= 10 \\ 5 \times 3 &= 15 \\ 5 \times 4 &= 20 \\ 5 \times 5 &= 25 \\ 5 \times 6 &= 30 \\ 5 \times 7 &= 35 \\ 5 \times 8 &= 40 \\ 5 \times 9 &= 45 \\ 5 \times 10 &= 50 \end{aligned}$$

Sigiyaɗamali: a nafaw

Kunnajate: 5x4=# 5x3=# 5x2=# 5x5=# 5x6=#
5x7=# 5x9=# 5x8=# 5x10=# 5x1=#

Sigiyaɗamali nafaw



Koninba ye mangoro sara 3 san. Sara o sara, mangoro 5 b'o kɔɔ. Koninba ye mangoro joli san?

Mun pininkali kɛra an na?

Jate suguya jumen b'a to an b'o sɔɔ?

Kafoli b'a to an bɛ Koninba ka mangoro sannen hake dɔɔ. mangoro 5 + mangoro 5 + mangoro 5 = mangoro 15 ye

$$\begin{array}{r} 5 \\ + 5 \\ + 5 \\ \hline = 15 \end{array}$$

Sigiyaɗamali fana b'a to an bɛ Koninba ka mangoro sannen hake dɔɔ,

mangoro 5 x 3 = mangoro 15 ye

$$\begin{array}{r} 5 \\ \times 3 \\ \hline = 15 \end{array}$$

Kɔɔsi: Jaabi sɔɔ ka teli ni sigiyaɗamali ye.

Sibiri fa ye gafe 2 san. Gafe kelen o kelen sɔɔgo ye dɔɔmɛ 31 ye. Gafew sɔɔgo benna joli ma?

Mun pininkali kɛra an na?

Jate suguya jumen b'a to an b'o sɔɔ?

Joli sigiyaɗama joli?

Dɔɔmɛ 31 x 2 = # ye

Jateminɛ kɛcogo:

Sigiyaɗamali bɛ daminɛ kinin fɛ ka bɔ duguma ka taa san fɛ.

Kelenw-ka so: 2 sigiyaɗama 1 o ye 2 ye

$$31$$

2 bɛ sɛben kelenw ka so

$$\times 2$$

Biw ka so: 2 sigiyaɗama 3 o ye 6 ye

$$= 62$$

6 bɛ sɛben biw ka so

Dɔɔmɛ 31 x 2 = dɔɔmɛ 62 ye.

Degelifɔtaw:

1. Bɛlɛkise 4 bɛ Adama tɛgɛ kelen o kelen kɔnɔ. Bɛlɛkise joli bɛ Adama bolo?
2. nele ye lenburu sara 5 da, sara o sara lenburu kuru 6 b'o kɔnɔ. nele ye lenburu joli sarada?
3. Karamɔgɔ ye tagalagomi di kalanden 2 ma. Kalanden kelen o kelen ye tagalagomi 6 sɔrɔ. Karamɔgɔ ye tagalagomi joli di kalandenw ma?

Jatesɛbɛntaw: A' ye jatesigiw jaabi jini.

11 x 5 = # ; 43 x 2 = # ; 12 x 1 = # ; 20 x 5 = # ; 32 x 2 = #
 m 34 x 2 = m # ye ; mtt 50 x 2 = mtt # ye ; bim 11 x 5 = bim # ye
 dɔrɔmɛ 10 x 5 = dɔrɔmɛ # ye saga 21 x 2 = saga # ye

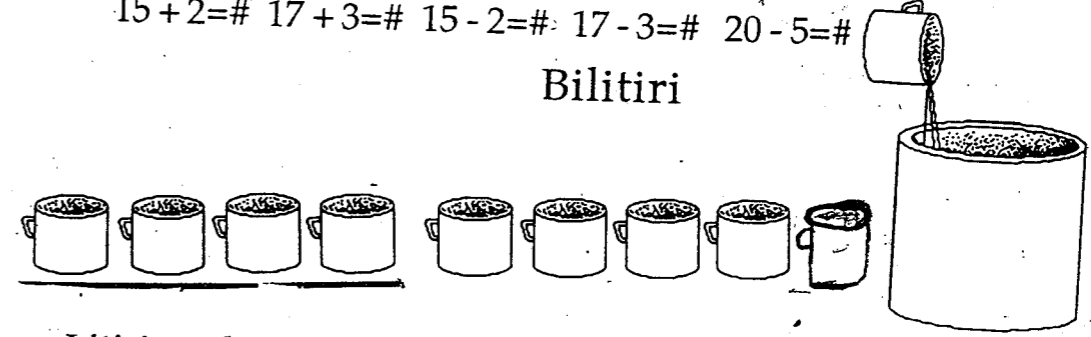
Jatepiniw:

1. Zan ye fini mɛtɛrɛ 5 san, mɛtɛrɛ kelen o kelen sɔngɔ ye dɔrɔmɛ 10 ye. Zan ka fini sɔngɔ bɛnna joli ma?
2. Sanba ye kaye 2 san, kaye kelen o kelen sɔngɔ ye dɔrɔmɛ 13 ye. Sanba ka kayew sɔngɔ bɛnna joli ma?
3. Bolo 5 bɛ jiri dɔ la. Bolo kelen o kelen, kɔnɔ 11 sigilen b'o kan. Kɔnɔ joli sigilen bɛ jiri in kan?
4. Sanba ye bisikiti 12 san, bisikiti kelen o kelen sɔngɔ ye dɔrɔmɛ 2 ye. A ye bɔnbɔn 11 san, min kelen o kelen sɔngɔ ye dɔrɔmɛ 5 ye. Sanba ka fɛn santaw bɛnna dɔrɔmɛ joli ma?
5. Nci ye mangoro 11 kari, a fa ye min kari o ye ale ta sigiyɔrɔma 5 ye. Nci fa ye mangoro joli kari? Nci n'a fa ye mangoro joli kari?

Bilitiri

Kunnajate: 8 - 5 = # 12 - 5 = # 35 - 5 = # 25 - 5 = #
 15 + 2 = # 17 + 3 = # 15 - 2 = # 17 - 3 = # 20 - 5 = #

Bilitiri



Litirinɛgelama fa ji jɛ tan bɛ kɛ palan kɔnɔ. Ji litiri joli bɛ palan kɔnɔ? 10 bɛ wele cogo di?
 Mɛtɛrɛ 10 welela cogo di? O la, an bɛ se ka litiri 10 wele cogo di?
 Bilitiri ye litiri joli ye?

Marata: Bilitiri 1 ye litiri 10 ye.

bil 1 = 10 ye

bil	1
1	0

Degelifɔtaw: A' ye fa sumanikelan ninnu falen

bil 4 = 1 # ye bil 7 = 1 # ye bil 2 = 1 # ye
 bil 5 = 1 # ye 140 = bil # ye 180 = bil # ye
 160 = bil # ye 110 = bil # ye 153 = bil # ni 1 # ye
 184 = bil # ni 1 # ye 136 = bil # ni 1 # ye

Jatesɛbɛntaw: A' ye jatesigiw kɔrɔ jini.

bil 24 + bil 72 = bil # ye bil # + bil 32 = bil 50 ye
 bil 67 - bil 49 = bil # ye bil # - bil 7 = bil ye
 bil 4 + 146 = 1 # ye bil 3 + 1 # = 154 ye
 bil 47 - 117 = 1 # = bil # ye bil 4 - 1 # = 124 ye
 bil 65 + bil # = bil 70 ye 145 = bil # + 1 # la ye
 bil 27 - bil # = bil 13 ye 193 = bil # + 1 # la ye
 185 - 18 = 1 # ye 178 - bil # = 123 ye.

Jatepiniw:

1. Zan ye bara 2 fa nɔnɔ na. Litiri 17 kɛra fɔlɔ kɔnɔ, litiri 18 kɛra filanan kɔnɔ. Nɔnɔ litiri joli kɛra baraw kɔnɔ? O ye bilitiri joli ni litiri joli ye?

2. Bamako ni Segu ce, mobilin da ya taji l' 30 jeni. Segu ni San ce a ye l' 26 jeni. Ka ba Bamako ka taa San, mobilin ya taji litiri joli jeni? O ye bilitiri ni litiri joli ye?

3. Tulu l' 87 tun be barigon da kono. Madu ye tulu bil 3 ba o la, Fanta fana ye tulu l' 29 ba o la. Tulu litiri joli bora barigon kono? A to ye litiri joli ye?

4. Pulb ye kono bil 2 ni l' 7 soro a ka wera folo la, k'a bil 3 ni l' 5 soro wera filanan na. A muso ye kono bil 4 ni l' 6 falenjo la. Pulb ka misiw kono banna litiri joli ma? A to tora litiri joli ye?

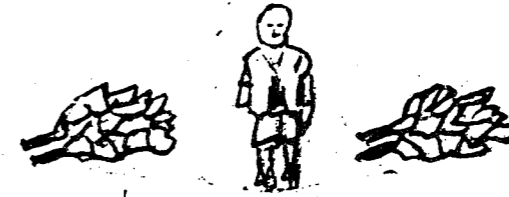
5. Gejuma ye taji l' 3 san. A dogoke Nci y'a l' 12 san. U ye taji in litiri kelen o kelen san drome 20. U ye drome joli sara?

6. Tigatulu l' 98 tun be bitigitigi ka barigon kono. Kunun a ye l' 25 feere tulu in na, bi a ye l' 36 feere a la. Bitigitigi ye tulu litiri joli feere tile fila in kono? Tulu to ye litiri joli ye?

Sigiyarwali: sigiyarwa 2 (mafila), sigiyarwa 5

Kunnajate: $5 \times 6 = \#$ $2 \times 7 = \#$ $2 \times 4 = \#$ $5 \times 10 = \#$ $2 \times 9 = \#$

Sigiyarwa 2: mafila



Nci y'a ka foronin kaba kari. A ye sara 2 soro. Sara o sara, kaba 43 ba o la. Nci ye kaba joli soro?

Mun jininkali kera an na?

Jate suguya jumen ba to an ba o soro? 43

$$\begin{array}{r} 43 \\ \times 2 \\ \hline = 86 \end{array}$$

kaba $43 \times 2 =$ kaba 86 ye

86 ye 43 sigiyarwa 2 ye. O la, a be fo ko 86 ye 43 mafila ye.

Misali: 6 ye 3 mafila ye bawo $3 \times 2 = 6$

10 ye 5 mafila ye bawo $5 \times 2 = 10$

100 ye 50 mafila ye bawo $50 \times 2 = 100$

Degeli: A ye nin da ninnu mafila jini: 12; 24; 3; 7; 30.

Sigiyarwa 5

-Karamo ye walannin 5 san. Walannin kelen o kelen soro ye drome 11 ye. Karamo ye drome joli sara?

$$\begin{array}{r} 11 \\ \times 5 \\ \hline = 55 \end{array}$$

drome $11 \times 5 =$ drome 55 ye

Jatesbentaw: A ye jatesigiw jaabi jini.

m $32 \times 2 = m \#$ ye bim $14 \times 2 = bim \#$ ye mtk $20 \times 5 = mtk \#$ ye

bil $6 \times 5 = bil \#$ ye mogo $43 \times 2 = mogo \#$ ye 3 $1 \times 2 = l \#$ ye

Jatejiniw:

1. Sitan ye jage 5 san dankan na. Jage kelen o kelen soro ye drome 10 ye. Sitan ye joli sara?

2. Karamɔgɔ ye kalandenw tila kulu 2 ye. Kulu kelen o kelen, kalanden 23 b' o la. Kalandenw ye joli ye?
3. Duloki 5 bɛ Madu bolo. Duloki kelen o kelen jufa 2 b' o la. Jufa kelen o kelen dɔrɔmɛ 5 b' o kɔnɔ. Madu ka duloki jufaw ye joli ye? Jufaw kɔnɔ wari bɛɛ lajelen ye joli ye?
4. Kalanso kɔnɔ sigilan kulu 14 bɛ yen. Kalanden 2 bɛ a kelen o kelen kan. Kalanden joli bɛ kalanso nin kɔnɔ?
5. Fatu ye kɔlɔnjuru mɛtɛrɛ 5 san. A ye mɛtɛrɛ kelen o kelen san dɔrɔmɛ 11. Fatu ye kɔlɔnjuru in san joli?
6. Buba ye dɔrɔmɛ 20 di a den kelen - kelen bɛɛ ma. Buba denw ye 5 ye. A ye dɔrɔmɛ joli di a denw ma?
7. Nbuuru 2 sɔngɔ ye joli ye ni nbuuru kelen o kelen sanda ye dɔrɔmɛ 14 ye?

Ci minw bɛ jɔgɔn cɛtigɛ : seleke

Kunnajate: $9+2=\#$ $8+3=\#$ $7+5=\#$ $6-5=\#$
 $8-3=\#$ $15-5=\#$ $9-3=\#$ $10+2=\#$ $7-5=\#$
 $8-5=\#$ $9+5=\#$ $6-5=\#$

Seleke

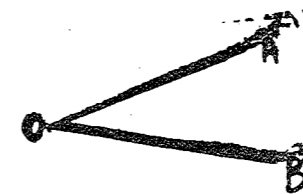


Kɛmɛsu da bɛ waga, k' o tigina kɛ walanba kan. Kɛmɛsu daw furancɛ bɛ wele seleke.

Seleke tigina bɛ sɔrɔ ni ci fila ye minw bɛ jɔgɔn cɛtigɛ.

O ye seleke nun ye

OA ni OB ye seleke kɛrɛw ye



Marata : Seleke bɛ dilan ci tilennen fila ye minw bɛ bɔ tomi kelen na .

Kɛmɛsu daw bɛ magɛrɛ jɔgɔn na, ka tila k' u waga kɔsɛbɛ: selekew bonya ye kelen ye wa?

Ni kɛmɛsu da bɛ waga ka taa a fɛ, seleke fana bɛ bonya.

Seleke misali dɔw bɛ jira kalanso kɔnɔ.

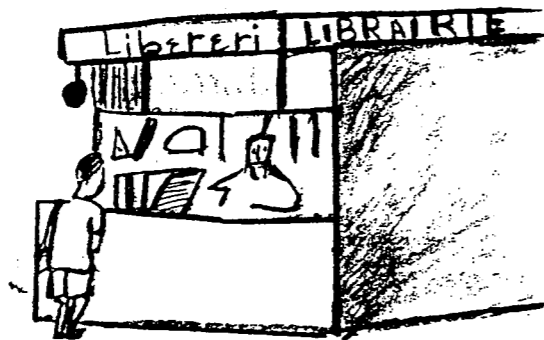
Degeli :

Kalandenw bɛ seleke tigina k' u ka walanninw kan?

Sigiyarwamali: marata be min na

Kunnajate: $2 \times 8 = \#$ $5 \times 7 = \#$ $2 \times 6 = \#$ $5 \times 4 = \#$
 $2 \times 5 = \#$ $5 \times 9 = \#$

Sigiyarwamali



Kalanden da ye tiiricilan 2 san. Tiiricilan kelen o kelen songo ye dorum 18 ye. Kalanden in ye dorum joli sara?

Mun pininkali kera an na?

Jate suguya jumen b'a to an b'o soro?

Joli sigiyarwama joli?

Jateminε ke cogo: Daw sigicogo be ke ka ne.

Kelenw ka so:

2 sigiyarwama 8 o ye 16 ye. 16 ye jateden fila ye
 jateden fila te sɛben so kelen kono. 6 min ye
 kelen ye, o be sɛben kelenw ka so. 1 ye bi ye,
 o be mara

$$\begin{array}{r} 28 \\ \times 2 \\ \hline = 56 \end{array}$$

Biw ka so:

2 sigiyarwama 2 o ye 4 ye. 4 kafo 1 maralen na o ye 5 ye.

5 be sɛben biw ka so.

Focogo surun:

2 sigiyarwama 8 ye 16 ye. 6 be sɛben ka 1 mara. 2 sigiyarwama 2 o ye 4 ye, 4 kafo 1 na o ye 5 ye. 5 be sɛben.

dorum $28 \times 2 = \text{dorum } 56$.

Jatesɛbentaw: A' ye jatesigiw jaabi jini:

$36 \times 2 = \#$; $12 \times 5 = \#$; $25 \times 2 = \#$; $27 \times 2 = \#$; $15 \times 5 = \#$

m $46 \times 2 = m \#$ bim $19 \times 5 = bim \#$ $127 \times 2 = 1 \#$

bil $29 \times 2 = \text{bil } \#$ mtt $165 = \text{mtt. } \#$ dorum $16 \times 2 = \text{dorum } \#$

Jatejiniw:

1. Zan ye jεge 5 san sugu la. Jεge kelen o kelen songo ye dorum 15 ye. Zan ka wari bota ye dorum joli ye?

2. nele ye tiiricilan 2 san. Tiiricilan kelen songo ye dorum 17 ye. nele ye joli sara?

3. Ka bo kalanso la ka taa dugu kono, jirisun turulen be sira fan fila fe. Jirisun 49 be fan kelenkelenna be kan. Jirisun joli be kalanso sira kan?

4. Negejuru lamini ko 5 kera ka kalanso nako sinsan. Negejuru sira kelen o kelen janya ye m 20 ye. Negejuru metere joli kera ka nako sinsan?

5. Kalandenw ye tamati sara 5 bo nako kono. Sara o sara, tamati 17 bo la. Karamogo ye sara 2 san. Kalandenw ye tamati joli kari? Karamogo ye tamati joli san? Tamati to tora joli ye?

6. Kalanso fila de b'an ka kalanyoro la. Kalanden 46 be kalanso kelen o kelen kono. Kalanden joli be kalanyoro in na? Kalanden musoman ye 38 ye. Kalanden ceman ye joli ye?

7: Bagi m 100 tun be Ngolo bolo. A ye m 12 ke doloki ni kulusi ye a den 5 kelen o kelen ye., ka m 13 ke dulokiba ye a muso 2 kelen o kelen ye. Bagi metere joli kalala denw ye? Joli kalala musow ye? Joli tora Ngolo bolo?

8. Dogtoroso ni siraba furance janya ye m 59 ye. Kunun sirabaarakelaw ye metere 23 laben, ka metere 34 laben bi. Sirabaarakelaw ye metere joli laben? U to tora metere joli ye?

4 Sigiyoꝛmakatimu

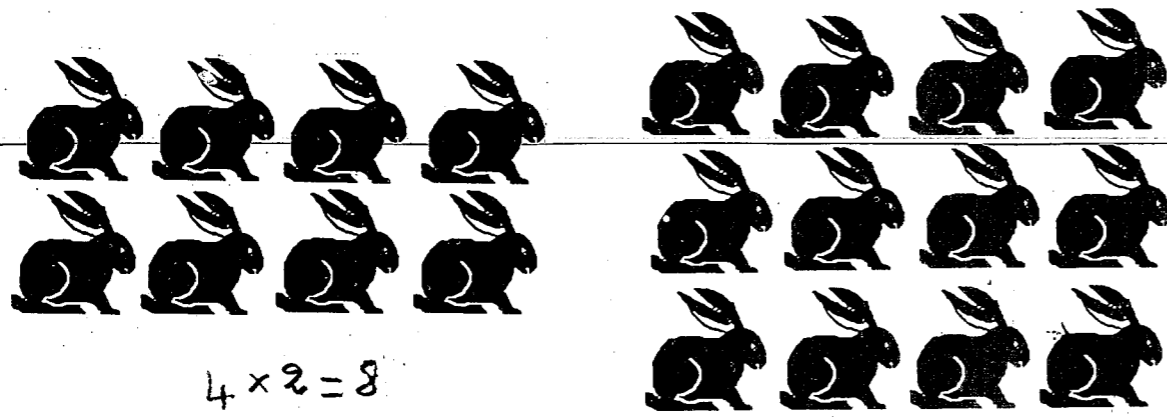
Kunnajate: $5 \times 3 = \#$ $2 \times 6 = \#$ $2 \times 8 = \#$ $5 \times 5 = \#$
 $5 \times 7 = \#$ $2 \times 5 = \#$

4 Sigiyoꝛmali

Kala, walannin, tiiricilan walima fen wɛɛ 4 sigiyoꝛma 1, 2, 3...10 bɛ di kalanden ma: kala 4 sigiyoꝛma joli bɛ di kalanden ma? O ye kala joli ye?



$4 \times 1 = 4$



$4 \times 2 = 8$

$4 \times 3 = 12$

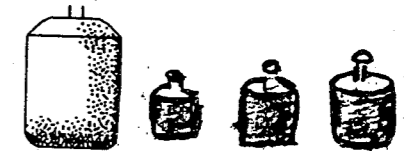
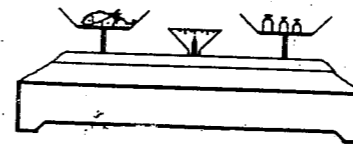
4 Sigiyoꝛmakatimu

- | | |
|-------------------|--------------------|
| $4 \times 1 = 4$ | $4 \times 6 = 24$ |
| $4 \times 2 = 8$ | $4 \times 7 = 28$ |
| $4 \times 3 = 12$ | $4 \times 8 = 32$ |
| $4 \times 4 = 16$ | $4 \times 9 = 36$ |
| $4 \times 5 = 20$ | $4 \times 10 = 40$ |

Garamu

Kunnajate: $4 + 6 = \#$ $7 + 6 = \#$ $12 + 6 = \#$ $25 + 6 = \#$
 $30 + 6 = \#$ $1 + 6 = \#$ $8 + 6 = \#$ $15 + 6 = \#$ $12 + 6 = \#$

Garamu



Sukaro walima kɔgɔ hake dɔ bɛ kɔɔta. Girinya sumanikelaɓ min kɛra ka kɔɔtali kɛ, girinya hake min sebennen b'o kan, kalanden dɔ bɛ o kalan.

Sukaro hake wɛɛw bɛ kɔɔta, k'u girinya fo: garamu 5,; garamu 20; garamu 25...

Garamu bɛ seben ka surunya: g.

Misali: g 5; g 20; g 25...

Girinya sumanikeminenw ye: ja, basikili (jaba) ani muruja.

Jatesɛbɛntaw : A ye jatesigiw jaabi jini.

- | | | |
|--------------------------------|-------------------------------|---------------------------|
| $g 30 + g 15 = g \# ye$ | $g 78 - g 45 = g \# ye$ | $g 64 + g 29 = g \# ye$ |
| $g 87 + g 6 = g \# ye$ | $g 76 - g 39 = g \# ye$ | $g 65 - g 28 = g \# ye$ |
| $g 12 + g 26 + g 39 = g \# ye$ | $g 31 + g 52 + g 7 = g \# ye$ | |
| $g 32 \times 2 = g \# ye$ | $g 46 \times 2 = g \# ye$ | $g 16 \times 5 = g \# ye$ |
| $g 45 \times 2 = g \# ye$ | $g 12 \times 5 = g \# ye$ | $g 37 \times 2 = g \# ye$ |

Jatejiniw

1. Madu ye karadasi 4 san. Karadasi kelen girinya ye g 12 ye. Karadasi 4 ninnu girinya ye garamu joli ye?
2. Zan ye jiriden 4 kɛ bɔɛ kɔɔ. Jiridenw girinya ye g 27; g 28; g 19 ni g 25 ye. Jiriden bɛɛ girinya ye garamu joli ye?
3. Basimugu garamu 98 tun bɛ Nci bolo, a ye g 39 dun o la. Basimugu tɔ ye garamu joli ye?
4. Musa ye siramugu bɔɛnin 4 san. Siramugu garamu 21 bɛ bɔɛnin kelen o kelen kɔɔ. A ye siramugu bɔɛnin 2 ani g 16 di a kɔɔw ma. Musa ye siramugu garamu joli san? A ye garamu joli d'a kɔɔw ma? Garamu joli tɔra a yɛɛ bolo?

8 Sigiyoɔmakatimu

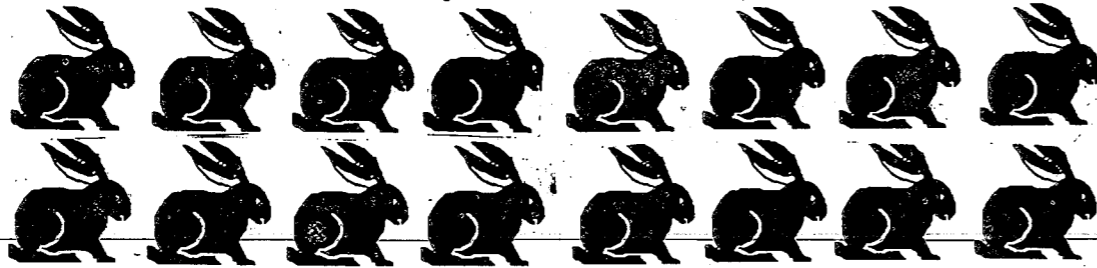
Kunnajate: $4 \times 5 = \#$ $2 \times 3 = \#$ $5 \times 6 = \#$ $4 \times 3 = \#$
 $4 \times 7 = \#$ $5 \times 4 = \#$ $2 \times 8 = \#$ $5 \times 7 = \#$ $4 \times 6 = \#$
 $4 \times 2 = \#$ $2 \times 4 = \#$ $4 \times 4 = \#$

8 Sigiyoɔmali

Kala walima fen were 8 sigiyoɔma 1, 2, 3, 4, 5,10 be di kalanden ma, kala 8 sigiyoɔma joli be kalanden bolo? O ye kala joli ye?



$$8 \times 1 = 8$$



$$8 \times 2 = 16$$

8 Sigiyoɔmakatimu

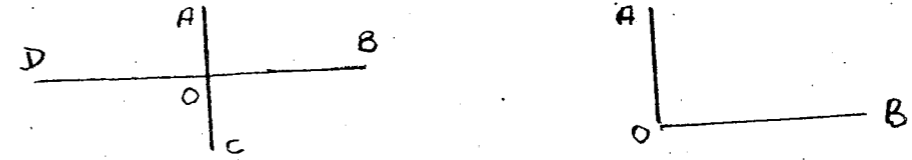
$8 \times 1 = 8$	$8 \times 6 = 48$
$8 \times 2 = 16$	$8 \times 7 = 56$
$8 \times 3 = 24$	$8 \times 8 = 64$
$8 \times 4 = 32$	$8 \times 9 = 72$
$8 \times 5 = 40$	$8 \times 10 = 80$

Selekew: selekemankan, selekenin, selekeba

Kunnajate; $3 + 6 = \#$ $6 + 6 = \#$ $63 + 6 = \#$ $19 - 5 = \#$
 $28 - 6 = \#$ $15 - 3 = \#$ $14 - 2 = \#$

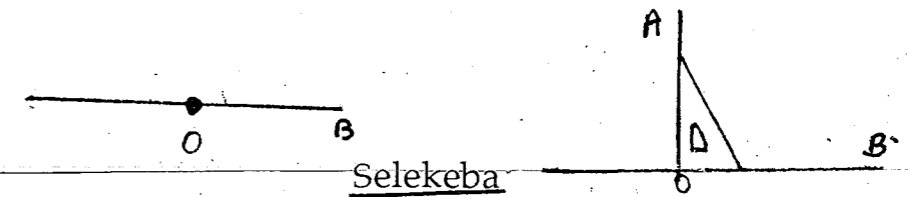
Selekemankan

Kayiti be kuru ko naani. Kurudaw na be bo ni sebennikelan ve



Ci dalen ni ci jlen min be kayiti kan, olu be ngon cetiɛ ka seleke naani dilan. O seleke kelen o kelen, ye selekemankan ye. Selekemankan misaliw be jira kalanso kono.

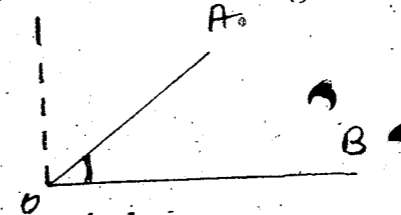
Selekemankan dilancogo be jira ni selekemankandilannan ye.



Selekeba ye seleke ye min kono ka bon ni selekemankan kono ye.



Selekenin ye seleke ye min kono ka ngon ni selekemankan kono ye.

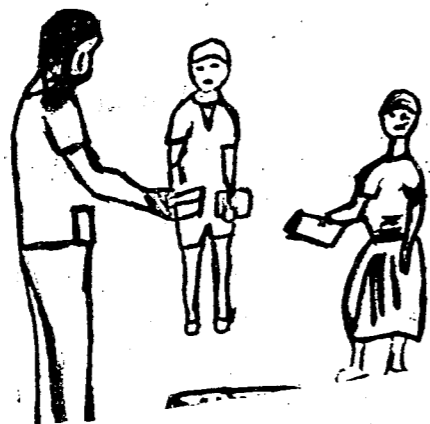


Degeli: Seleke min togo mana fo, kalandenw b'o tigina k'u ka walanninw kan.

Tilali: a nafaw

Kunnajate: 10-6=# 7-6=# 8-6=# 12-6=#
20-6=# 30-6=# 40-6=# 50-6=#

Tilali:



Karamɔɔ ye gafe 8 tila kalanden 2 cɛ. Kalanden kelen o kelen ye gafe joli sɔɔ?

Mun pininkali kɛra an na?

Jate suguya jumen b'a to an b'o sɔɔ?

Joli bɛ tila joli ye?

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

Gafe 8: 2 = gafe 4 ye

Dɔɔɔmɛ 84 tilala mɔɔɔ 4 cɛ. U kelen o kelen ye dɔɔɔmɛ joli sɔɔ?

Mun pininkali kɛra an na?

Jate suguya jumen b'a to an b'o sɔɔ?

Joli bɛ tila joli ye?

Jateminɛ kɛcogo:

Jateminɛ bɛ daminɛ numan fɛ ka taa kinin fɛ. Jateden kelen bɛ ta numan fɛ tilata la, o ye 8 ye. * tilalen 4 ye, o ye 2 ye (walima 4 sigiyɔɔɔmali bɛ durusi: 4 x 1 = 4; 4 x 2 = 8). 4 bɛ sɛben jaabi yɔɔ la. 2 sigiyɔɔɔma 4 o ye 8 ye. 8 bɔlen 8 na, o to ye 0 ye.

Jateden min bɛ 8 kinin fɛ n'o ye 4 ye, o bɛ lajigin 0 kinin fɛ.

$$\begin{array}{r|l} 84 & 4 \\ -8 & 21 \\ 04 & \\ -4 & \\ \hline =0 & \end{array}$$

4 tilalen 4 ye, o ye 1 ye. 1 bɛ sɛben 2 kinin fɛ. 1 sigiyɔɔɔma 4, o ye 4 ye. 4 bɔlen 4 na, a to ye 0 ye

Dɔɔɔmɛ 84: 4 = Dɔɔɔmɛ 31

Marata : Tilali b'a to niyɔɔɔ hake bɛ dɔn.

Karamɔɔ ye tagalagomi 15 tila kalandenw cɛ. Kalanden kelen o kelen ye tagalagomi 5 sɔɔ. Tagalagomi tilala kalanden joli cɛ?

$$\begin{array}{r|l} 15 & 5 \\ -15 & =3 \\ \hline 00 & \end{array}$$

Kalanden 1 x 15: 5 = kalanden 3.

Marata : Tilali b'a to tilada (tilayɔɔɔ) hake bɛ dɔn.

Jatesɛbɛntaw : A' ye jatesigiw jaabi jini.

84 : 2 = # 56 : 4 = # 45 : 5 = # 96 : 8 = # 32 : 4 = #

m 72: 4 = m # ye l 60: 5 = l # ye mtt 86: 2 = mttt # ye

bil 54: 2 = bil # ye g 35: 5 = g # ye g 48: 4 = g # ye.

Jatepiniw :

1. Sibiri ye bagi m 48 tila a den 4 cɛ. Den kelen o kelen ye matɛɛ joli sɔɔ?

2. Fulakɛ ye nɔɔɔ l 60 tila minɛn 5 cɛ. Litiri joli kɛra minɛn kelen kɔɔ?

3. Dɔɔɔmɛ 96 tilala mɔɔɔ damadɔ cɛ. U kelen o kelen ye dɔɔɔmɛ 8 sɔɔ. Wari in tilala mɔɔɔ joli cɛ?

4. Baba ye dɔɔɔmɛ 85 tila mɔɔɔ damadɔ cɛ. U kelen o kelen ye dɔɔɔmɛ 5 sɔɔ. Wari in tilala mɔɔɔ joli cɛ?

5. Karamɔɔ Madu ye karadasi 45 tila kalanden 5 cɛ. Kalanden kelen o kelen ye karadasi joli sɔɔ?

Tilali 2 ye tilance, tilali 5 ye

Kunnajate: $2 \times 9 = \#$ $5 \times 6 = \#$ $4 \times 6 = \#$ $2 \times 7 = \#$

Tilali 2 ye (tilance)



Misali: Denmisɛn 2 ye kamifan 46 tɔmɔ kungo kɔnɔ. U kelen o kelen bɛ kamifan joli sɔrɔ?

Mun jininkali kɛra?

Jate suguya jumen b'a to n'an b'o sɔrɔ?

Joli bɛ tila joli ye?

<u>ɲɛɓli</u>	<u>sɔrɔlen</u>	<u>jatesigi</u>
U kelen o kelen bɛ min sɔrɔ oye:		46 2
kamifan $46 \times 2 =$	kamifan 23ye	6 = 23
jaabi : kamifan 23		0

Tilayɔrɔ kɛra 2 ye, a bɛ fɔ ko 46 tilala 2 ye.

Jaabi min sɔrɔla, n'o ye. 23 ye, o bɛ wele 46 tilance, 23 ye 46 tilance ye.

Marata: Da tilance bɛ sɔrɔ n'i y'a tila 2 ye.

Tilali 5 ye

Misali: Karamɔgɔ ye tagalagomi 75 tila kalanden 5 cɛ.

Kalanden kelen o kelen ye tagalagomi joli sɔrɔ?

Mun jininkali kɛra?

Jate suguya jumen b'a to n'an b'o sɔrɔ?

Joli bɛ tila joli ye?

ɲɛɓli

sɔrɔlen

jatesigi

kalanden kelen o kelen ye
min sɔrɔ o ye:
tagalagomi $75 : 5 =$

tagalagomi
15ye

75	5
25	= 15
0	

jaabi: tagalagomi 15

Degelifɔta:

1) 4 tilance ye joli ye? 6 dun? 8 dun? 10 dun?

2) 10 tilalen 5 ye, 0 ye joli ye? 15 dun?

Jatesɛbenta:

1) A' y' a tilance jini: 78; 14; 80; 70; 100.

2) A' y' u jaabi jini:

$35 : 5 = \#$ ye bim $85 : 5 = \text{bim } \#$ ye

$80 : 2 = \#, \#$ ye l $47 : 2 = l \#$ ye

$62 : 2 = \#$ ye m $39 : 5 = m \#$ ye

$24 : 2 = \text{ye}$ bil $90 : 2 = \text{bil } \#$ ye

Jateɲiniw:

1) Dutigi ye nɔnɔ litiri 25 tila a den 5 cɛ.

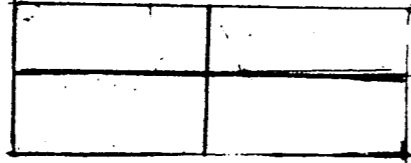
Den kelen o kelen ye litiri joli sɔrɔ?

2) Dɔrɔmɛ 64 tila kalanden 2 cɛ. Kalanden kelen o kelen ye joli sɔrɔ?

Selekemankanciw

Kunnajate: $4 + 6 = \#$ $6 + 6 = \#$ $10 - 6 = \#$ $9 - 6 = \#$

Kaye kayiti kelen be ta. A jajanw be keje jagon ma k'a kuru, ka jsurunw keje jagon ma k'a kuru. Now be bo ni sebennikelan ye.

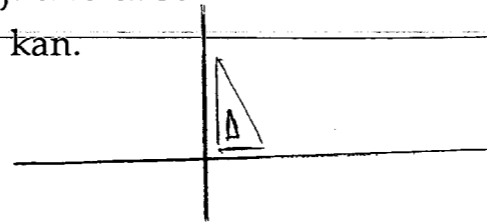


Ci joli be kayiti kan? U cogoyaw ye kelen ye wa? U be jagon cetige wa? U be seleke joli dilan? O selekew ye seleke suguya jumɛn ye?

Marata: Ni ci fila be jagon cetige ka selekemankan dilan, a be fo ciw ma ko selekemankanciw.

Selekemankanciw misali daw be jira kalanso konɔ.

Selekemankanciw be ke walanba kan.

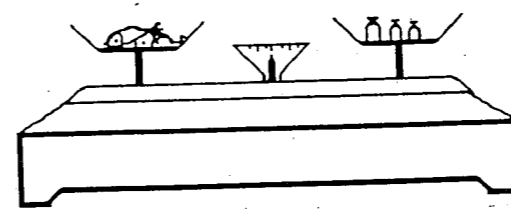


Segesegeli: Kalandenw be selekemankanciw k'u ka walanninw kan.

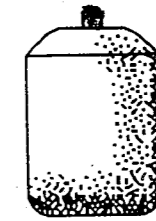
Bigaramu

Kunnajate: $8 : 2 = \#$ $4 : 2 = \#$ $6 : 2 = \#$ $10 : 2 = \#$

$30 : 2 = \#$ $20 : 2 = \#$ $40 : 2 = \#$ $50 : 2 = \#$ $60 : 2 = \#$



Bigaramu



Fɛn do be korɔta, fɛn min girinya ye g 10 ye (g 5, g 3, g 2, g 1). Girinya sumanikeminɛn minw kelen girinya ye g 10 ye, o be bila girinya sumanikeminɛn naani ninnu no na. Da min sebennen b'o kan, kalanden do b'o kalan.

Mɛtɛrɛ 10 welela cogo di?

Litiri 10 welela cogɔ di?

An be garamu 10 fana wele cogo di?

Marata: Bigaramu (big) 1 ye garamu 10 ye.

big 1 = g 10 ye

Degelisɛbɛntaw: A'ye girinya sumanikelan ninnu falɛn.

big 4 = # ye big 9 = g # ye big 3 = g # ye big 7 = g # ye

g 70 = big # ye g 80 = big # ye g 40 = big # ye g 60 = big # ye

g 45 = big # ni g # ye g 86 = big # ni g # ye g 20 = big # ni g # ye

Jatesɛbɛntaw:

big 3 + big 5 = big # ye

big 68 : 2 = big # ye

big 82 + big 17 = big # ye

big 84 : 4 = big # ye

big 52 + big 38 = big # ye

g 8 + g # = big 1 ye

big 25 - big 12 = big # ye

g # + g # = big 1 ye.

big 74 - big 29 = big # ye

big 25 - big # = big 1 ye

big 92 - big 86 = big # ye

big 5 - g 20 = big # ye

big 23 x 3 = big # ye

g 80 - big 3 = big # ye

big 38 x 2 = big # ye

big 6 - big 4 = g # ye

Jatepiniw:

1. Tiga big 35 tun be Ngolo bolo, Sibiri ye tiga big 28 d'a ma. Tiga bigaramu joli be Ngolo bolo?

2. Sitan ka foro jo benna big 72 ma. A ye jo big 45 di a ce ma. Sitan ka jo to ye bigaramu joli ye?

3. Gejuma ye kaba big 84 tila a dɔgɔkɛ 4 cɛ. Dɔgɔkɛ kelen o kelen ye kaba bigaramu joli sɔɔ?

4. Madu ye letɛɛ sɔɔ min girinya benna: big 1, g 5, g 3 ani g 1 ma. Letɛɛ girinya ye joli ye?

5. Baba ye letɛɛ foroko 5 san. Letɛɛ foroko kelen o kelen ye garamu 15 ye. U girinya ye garamu joli ye?

Tilali: tilali 4 ye

Kunnajate: $8:2=\#$ $20:5=\#$ $16:2=\#$ $35:5=\#$
 $10:1=\#$ $4 \times 3=\#$ $4 \times 7=\#$ $4 \times 2=\#$ $4 \times 1=\#$

Misali: Zan ye dɔɔɔmɛ 95 tila a den 4 cɛ.

Den kelen o kelen ye joli sɔɔ?

Mun jininkali kɛra an na?

Jate suguya jumen b'a to an b'o sɔɔ?

Joli bɛ tila joli ye?



<u>ɲɛfɔli</u>	sɔɔɔlen	<u>jatesigi</u>
Den kelen o kelen ye min sɔɔ oye: dɔɔɔmɛ 96:4	=	dɔɔɔmɛ 24
<u>jaabi:</u> dɔɔɔmɛ 24		$\begin{array}{r} 96 \quad \quad 4 \\ 16 \quad \quad = 24 \\ 0 \end{array}$

Misali: Karamɔgɔ ye namasa 35 tila kalanden 4 cɛ. Kalanden kelen o kelen ye joli sɔɔ?

Mun jininkali kɛra an na?

Jate suguya jumen b'a to an b'o sɔɔ?

Joli bɛ tila joli ye?

<u>ɲɛfɔli</u>	sɔɔɔlen	<u>jatesigi</u>
kalanden kelen o kelen ye min sɔɔ oye: namasa 35:4	=	namasa
<u>jaabi:</u> namasa 8, a tɔye 3 ye.		$\begin{array}{r} 35 \quad \quad 4 \\ 3 \quad \quad = 8 \end{array}$

Jatesɛbɛntaw:

mtt 84:4 = mtt # bil 92:4 = bil # ye

big 68:4 = big # ye mtk 76:4 = mtk # ye

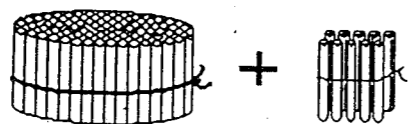
m 100:4 = m # ye l 28:4 = l # ye

Daw: ka bɔ 100 la ka taa 199 na

Kunnajate : $4 \times 3 = \#$ $8 \times 5 = \#$ $2 \times 7 = \#$ $5 \times 6 = \#$

$1 + 9 = \#$ $2 + 9 = \#$ $5 + 9 = \#$ $11 + 9 = \#$

Ka bɔ 100 la ka taa 199 na



100

10

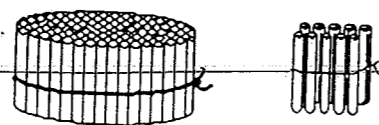
Kalasiriba kelen bɛ ta: nin ye kala joli ye?

Kalasiirin kelen bɛ ta: nin ye kala joli ye?

An k'o kala tan kafo kala kɛmɛ la. Kala joli kafo kala joli la? O bɛ ben kala joli ma? An k'u dan jirali senfɛ.

- Kɛmɛ, kɛmɛ ni tan.

Sinsin bɛ kɛ kɛmɛ ni tan fɔcogo kan.



100

ni

10

kɛ	bi	ke
1	1	0

Kɛmɛ ni tan sɛbɛncogo

Kɛmɛ ni tan bɛ sɛben: 1 ka 1 sɛben o kinin fɛ, ka 0 sɛben o fana kinin fɛ.

Kalandenw bɛ 110 sɛben u ka walannin kan.

Karamɔgɔ bɛ tila ka kalasiriba kelen ta, ka kalasiirin 2, 3, 4 walima 9 kafo o la. Ani kalandenw bɛ daw sɛben katimu kɔnɔ

kɛ	bi	ke
1	9	0

Ka bɔ 100 la ka taa 199 na: Da tɔw sɛbɛncogo

Kalasiriba kelen, kalasiirin wɔɔɔɔ ani kala saba bɛ ta.

Kalandenw bɛ da fɔ: (jirali senfɛ) kɛmɛ ni bi wɔɔɔɔ ni saba.

Sinsin bɛ kɛ o fɔcogo kan.

Da bɛ sɛben katimu kɔnɔ kalandenw fɛ.

kɛ	bi	ke
1	6	3

Da wɛrɛw sɛbɛncogo bɛ jira, i n' a fɔ: 199

kɛ	bi	ke
1	9	9

Sɛgɛsɛgɛli

1. Kalandenw bɛ daw kalan: 127, 108, 178...

2. Karamɔgɔ bɛ daw fɔ kalandenw b'u sɛben walannin kan.

3. Kalanden bɛ tan-tan danni kɛ ka bɔ 100 na ka taa 190 na.

Jatesɛbɛnta: $64 : 4 = \#$ $m 36 : 4 = \#$

$29 : 4 = \#$

bil $84 : 4 = \#$

$75 : 4 = \#$

big $28 : 4 = \#$

$18 : 4 = \#$

g $72 : 4 = \#$

$92 : 4 = \#$

bim $16 : 4 = \#$

Jatejiniw

1. Denmisɛn 4 ye dɔrɔmɛ 62 sɔrɔ seli don. U kelen o kelen ka kan ka joli sɔrɔ?

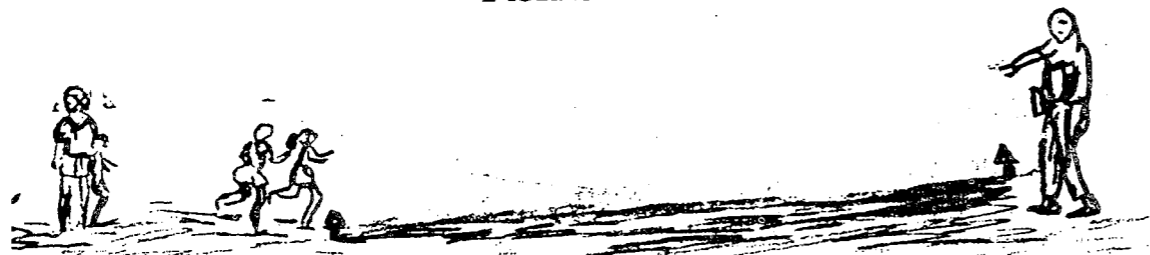
2. Madu ye fini mɛtɛrɛ 76 tila a den 4 cɛ. Den kelen o kelen ye mɛtɛrɛ joli sɔrɔ?

3. Mangoroden 20 tilara mɔgɔ damadɔ cɛ. U kelen o kelen ye mangoroden 4 sɔrɔ. Mangoroden tilala mɔgɔ joli cɛ?

Kememeterɛ

Kunnajate: $10 - 6 = \#$ $8 - 6 = \#$ $9 - 6 = \#$ $7 - 6 = \#$ $6 - 6 = \#$
 $4 \times 5 = \#$ $10 : 2 = \#$ $2 \times 6 = \#$ $20 : 5 = \#$ $5 \times 7 = \#$

Kememeterɛ



meterɛ 100

Farikolonajeyoro kene kan, meterɛ keme be suma ni sumanijlɔko ye.

Meterɛ 10 be wele cogo di?

Meterɛ 100 be wele kememeterɛ. Kememeterɛ be seben ka surunya kem.

Marata: Kememeterɛ ye meterɛ 100 ye.

$kem\ 1 = m\ 100\ ye$

- Kememeterɛ 1 ye bimeterɛ 10

$kem\ 1 = bim\ 10\ ye.$

Degelisɛbenta: A' ye janya sumanikela ninnu falen
 $kem\ 5 = bim\ \# ye$ $kem\ 7 = bim\ \# ye$ $kem\ 3 = bim\ \# ye$
 $bim\ 20 = kem\ \# ye$ $bim\ 40 = kem\ \# ye$ $bim\ 60 = kem\ \# ye$
 $m\ 134 = kem\ \# ni bim\ \# ni m\ \# ye$
 $m\ 192 = kem\ \# ni bim\ \# ni m\ \# ye.$

Jatesɛbentaw: A' ye jatesigiw jaabi pini

$kem\ 4 + kem\ 5 = kem\ \# ye$

$kem\ 32 + 3 = kem\ \# ye$

$kem\ 18 + kem\ 24 = kem\ \# ye$

$kem\ 23 \times 4 = kem\ \# ye$

$kem\ 27 + kem\ 54 = kem\ \# ye$

$m\ 20 + m\ \# = kem\ 1 ye$

$kem\ 58 - kem\ 35 = kem\ \# ye$

$m\ 70 + m\ \# = kem\ 1 ye$

$kem\ 75 - kem\ 49 = kem\ \# ye$

$bim\ 6 + bim\ \# = kem\ 1 ye$

$kem\ 64 - kem\ 56 = kem\ \# ye$

$bim\ 2 + bim\ \# = kem\ 1 ye$

$m\ 130 - m\ \# = kem\ 1 ye$

$m\ 160 - m\ \# = kem\ 1 ye$

$m\ \# - m\ 20 = kem\ 1 ye$

$m\ 195 - m\ 80 = m\ \# ye = kem\ \# + bim\ \# + m\ \# la$

$m\ 95 + m\ 78 = m\ \# ye = kem\ \# + bim\ \# + m\ \# la$

Jatepiniw:

1. Dugu fila furance janya ye kem 98 ye. Seriba ye kem 74 taama o la. Seriba to ye kememeterɛ joli ye?

2. Kunun, Araba ye kem 85 taama. Bi, a ye kem 78 taama. Araba ye kememeterɛ joli taama?

3. Dugu fila furance janya ye kem 68 ye. U furance tilance janya ye kememeterɛ joli ye?

4. Bajalan min be Mamari ka maloforo la, o janya ye kem 67 ye. Kunun, Mamari n'a ka denbaya ye kem 31 kono dilan bajalan in na, bi u ye kem 24 kono dilan. Kememeterɛ joli dilanna? Kememeterɛ joli dilanbali tora?

Daw: ka bo 200 la ka taa 300 la.

Kunnajate: Sigiyoromali. $5 \times 9 = \#$ $6 \times 7 = \#$ $5 \times 8 = \#$

Ka bo 200 la ka taa 300 la

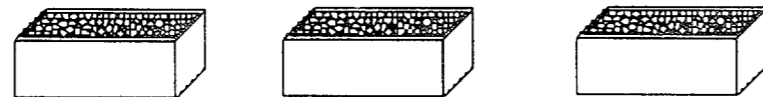


gaala 100

gaala 100

gaala 100

Gaala pagati fila be ta: nin ye gaala joli ye? Gaala pagati kelen be ta: Gaala joli be nin kono? An k'o kafo gaala keme fila la. Gaala joli kafora gaala joli la? O ye gaala joli ye?



Keme saba

Keme saba sebencogo

kε	bi	ke
3	0	0

Keme saba be seben 3 ka 0 fila seben o kinin fe.

300 sarocogo werew

$$200 + 100 = 300$$

$$100 + 200 = 300$$

$$100 + 100 + 100 = 300$$

Ka bo 200 la ka taa 300 la: daw sebencogo

Gaala 253 be ta (gaala pagati fila, gaala sirinin duuru ani gaala saba). Kalandenw be da fo jirali senfe. Keme w ye joli ye? Biw ye joli ye? Kelenw ye joli ye?

kε	bi	ke
2	5	3

Da werew sebencogo be jira, i n'a fo 207.

kε	bi	ke
2	0	7

Degeleli:

1. Da kalantaw: 247 - 207 - 279 - 251 - 197 - 300.

2. Da fotaw ni sebentaw: 140 - 132 - 273 - 244 - 169 - 299.

3. Ka fila-fila, duuru-duuru, tan-tan dan ka bo 200 la ka taa 300 la.

Tilali: ka bɔ 100 la ka taa 300 la.

Kunnajate: $8:2=\#$ $10:5=\#$ $6:2=\#$ $8:4=\#$ $10:2=\#$

Tilali

Dɔrɔmɛ 197 tilala kalanden 5 cɛ. Kalanden kelen o kelen ye joli sɔrɔ?

Mun jininkali kɛra an na?

Jate suguya jumɛn b'a to an b'o sɔrɔ?

Joli bɛ tila joli ye?

Jateminɛ kɛcogo:

Jateden kelen bɛ ta numan fɛ n'o ye 1 ye, 1 tilalen 5 ye, o ye joli ye? O tɛ se ka kɛ.

Jateden fila bɛ ta n'o ye 19 ye, 19 tilalen 5 ye, o ye joli ye? 5 sigiyɔrɔmali bɛ durusi:

$$5 \times 1 = 5 \quad 5 \times 3 = 15 \quad 5 \times 4 = 20$$

5×4 ka ca, o la 19 tilalen 5 ye, o ye 3 ye, 3 bɛ sɛbɛn jaabi yɔrɔ la.

$$3 \times 5 = 15, 15 \text{ bɔlɛn } 19 \text{ na o tɔ ye } 4 \text{ ye.}$$

7 bɛ lajigin 4 kinin fɛ, 47 tilalen 5 ye, o ye joli ye? 5 sigiyɔrɔmali bɛ durusi:

$$5 \times 1 = 5 \quad 5 \times 9 = 45 \quad 5 \times 10 = 50.$$

5×10 ka ca, o la 47 tilalen 5 ye, o ye 9 ye.

9 bɛ sɛbɛn 3 kinin fɛ. $9 \times 5 = 45$ 45 bɔlɛn 47 la o tɔ ye 2 ye.

Jaabi: Kalanden kelen o kelen bɛ dɔrɔmɛ 9 sɔrɔ, a tɔ bɛ to dɔrɔmɛ 2 ye.

Jatesɛbɛnta

$$238 : 4 = \# \text{ ye} \quad m \ 158 : 4 = m \ # \ \text{ye} \quad \text{bil } 105 : 5 = \text{bil} \ # \ \text{ye}$$

$$139 : 8 = \# \ \text{ye} \quad \text{bim } 216 : 8 = \text{bim} \ # \ \text{ye} \quad g \ 288 : 8 = g \ # \ \text{ye}$$

$$205 : 5 = \# \ \text{ye} \quad \text{mtt } 108 : 5 = \text{mtt} \ # \ \text{ye} \quad \text{mtk } 134 : 2 = \text{mtk} \ # \ \text{ye}$$

$$238 : 2 = \# \ \text{ye} \quad \text{big } 246 : 2 = \text{big} \ # \ \text{ye} \quad m \ 199 : 4 = m \ # \ \text{ye}$$

Jatejiniiw

1. Tamatiden 248 tilala segi 8 cɛ. Tamatiden joli bɛ segi kelen o kelen kɔrɔ?

2. Selimayaala la, denmisɛn 5 ye dɔrɔmɛ 135 sɔrɔ. U kelen o kelen ka kan ka joli sɔrɔ?

3. Madu n'a dɔgɔnin 2 taara selimayaala la. U bɛnkɛ ye dɔrɔmɛ 93 d'u ma, u tɛnɛnmuso fana ye dɔrɔmɛ 89 d'u ma. Madu ye dɔrɔmɛ 50 ta, k'a tɔ tila a dɔgɔw cɛ. Dɔgɔnin kelen o kelen ye joli sɔrɔ?

4. Musa ye mangoro 165 kari. A y'u tila segi 5 cɛ. Mangoro joli bɛ segi kelen o kelen kɔrɔ?

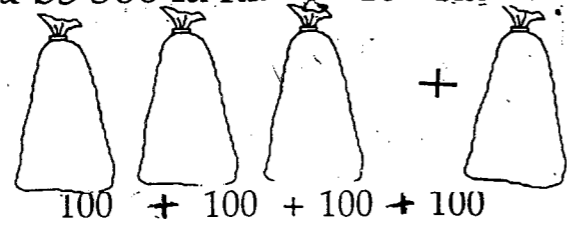
5. Ji kɛl 1 ni bil 3 ani l 5 bɛ gongon kɔrɔ. Madu ye l 98 bɔn. Ji litiri joli tora gongon kɔrɔ?

6. Tulu kɛl 1 ni bil 4 ani l 5 bɛ gongon kɔrɔ. Karajagofeerela Madu ye l 128 bɔ a la. Tulu litiri joli tora gongon kɔrɔ?

Daw: ka bɔ 300 ka taa 500 la.

Kunnajate: $8 \times 2 = \#$ $5 \times 4 = \#$ $2 \times 5 = \#$ $4 \times 8 = \#$

Ka bɔ 300 la ka taa 400 na: daw sɔɔcogo



Bɔrɛ saba fa nɔ girinya ye kilo joli ye? Bɔrɛ kelen fa nɔ girinya dun? Kilo 100 mana kafo kilo 300 la, o bɛ bɛn kilo joli ma?



kɛmɛ naani

Kɛmɛ naani sɛbɛncogo

kɛ	bi	ke
4	0	0

Kɛmɛ naani bɛ sɛbɛn: 4 ka 0 fila sɛbɛn o kinin fɛ.

Kɛmɛ duuru (500) sɔɔcogo

Kɛmɛ duuru sɔɔcogo n'a sɛbɛncogo bɛ kɛ i n'a fɔ kɛmɛ naani ta kɛra cogoya min na.

400 ni 500 sɔɔcogo wɛrɛw

$$\begin{aligned}
 300 + 100 &= 400 & 400 + 100 &= 500 \\
 200 + 200 &= 400 & 200 + 300 &= 500 \\
 100 + 300 &= 400 & 300 + 200 &= 500 \\
 100 + 100 + 100 + 100 &= 400 & 100 + 400 &= 500 \\
 & & 200 + 100 + 200 &= 500.
 \end{aligned}$$

Ka bɔ 300 la ka taa 500 la: daw sɛbɛncogo

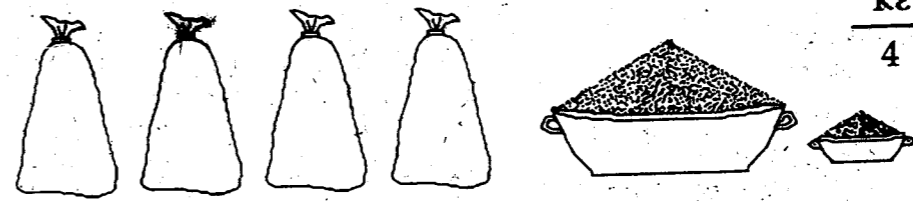


Kilo 300

Kilo 50

Kilo 2

kɛ	bi	ke
3	5	2



Kilo 400

Kilo 70

Kilo 3

kɛ	bi	ke
4	7	3

Degeliw

1. Da kalantaw: 324 - 405 - 366 - 492.
2. Da fɔtaw ni sɛbɛntaw: 300 - 305 - 475 - 499 - 500.
3. Da fila-fila, duuru-duuru, tan-tan dan ka bɔ 300 la ka taa 500 la.

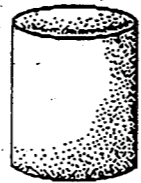
Kemelitiri

Annajate: $2 \times 5; 5 \times 3; 5 \times 9; 5 \times 4$.

Kemelitiri



bil 1



kel 1

Bilitiri fa ko tan be ke barigon konɔ. Bilitiri joli kera barigon konɔ? O ye litiri joli ye?

Litiri 100 be wele kemelitiri (Kel).

Kemelitiri 1 ye litiri 100 ye walima bil 10.

Marata: Kemelitiri 1 ye litiri 100 ye.

kel 1 = 100 ye

kel 1 ye bilitiri 10 ye

kel 1 = bil 10 ye

ke	bi	ke
1	0	0
1	0	

Degelisbentaw: A ye fa sumanikelanw falenw

kel 3 = 1 # ye

kel 5 = bil # ye

1 400 = kel # ye

bil 30 = kel # ye

kel 300 = bil # ye

kel 2 = 1 # ye

kel 2 = bil # ye

Jatesbenta. A ye jatesigiw jaabi pini.

kel 21 + kel 76 = kel #

kel 2 + 17 = #

kel 45 + kel 29 = kel # ye

kel 3 + bil 4 = 1 # ye = bil # ye

kel 4 - 1 17 = 1 # ye

kel 2 + bil 3 + 1 1 = 1 # ye

kel 2 + bil 3 + 1 5 = 1 # ye

1 463 = kel # ni bil # ni 1 # ye

kel 4 + bil 7 + 1 2 = 1 # ye

1 240 = kel # ni bil # ni 1 # ye

kel 3 + 1 200 = kel # ye

1 307 = kel # ni bil # ni 1 # ye

kel 2 - 1 34 = 1 # ye

bil 35 = 1 # ye

kel 3 - 1 135 = 1 # ye

bil 35 = kel # ni bil # ni 1 # ye

kel 2 - bil 4 = 1 # ye

kel 14 x 5 = kel # ye

kel 36 x 3 = kel # ye

Jatepiniw

1. Barigon 3 be wotoro konɔ, ji kel 2 b'a kelen o kelen konɔ. Ji kemelitiri joli be wotoro konɔ?

2. Mɔbili do tajibara falen ka kan ka ben kel 1 ma, nka taji 1 48 de b'a konɔ. Taji litiri joli be tajibara in je fali la?

3. Ngolo ka mɔbili ye taji kel 9 jeni kalo temenen. Nin kalo, a ye taji kel 8 jeni. Mɔbili in ye taji hake joli jeni?

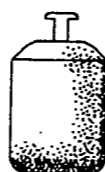
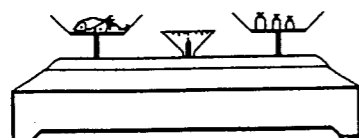
4. Fulake do be konɔ bil 2 ani 1 5 sɔɔ don o don. Fulake in n'a ka denbaya be konɔ litiri 9 min don beɛ. Fulake nin be se ka litiri joli feere don o don?

Kemegaramu

Minew: Ja ani girinya sumanikeminenw

Kunnajate: $4 + 3 + 5 = \#$ $2 + 6 + 3 = \#$ $5 - 2 + 7 = \#$ $3 + 5 - 4 = \#$

Kemegaramu



Fen do be korota min girinya ye garamu 100 ye. Girinya samanikeminenw minw kera ka korotali ke olu girinyaw be kafo.

$$g 50 + g 20 + g 20 + g 10 = g 100$$

Girinya sumanikeminen min kelen girinya ye g 100 ye, o be bila girinya sumanikeminen naani ninnu no na.

Nin gabakuru in girinya ye garamu joli ye?

Metere 100 be wele cogo di?

An be garamu 100 fana wele cogo di?

Kemegaramu 1 ye garamu joli ye?

Marata: Kemegaramu (keg) 1 ye garamu 100 ye.

keg 1	=	g 100 ye
keg 1	=	big 10 ye

ke	bi	ke
1	0	0

$$Keg 1 = g 100$$

ke	bi	ke
1	0	

$$Keg 1 = big 10$$

Degelisbentaw: A ye girinya sumanikela ninnu falen.

$$keg 3 = g \# \text{ ye}$$

$$keg 5 = g \# \text{ ye}$$

$$keg 2 = g \# \text{ ye}$$

$$keg 4 = big \# \text{ ye}$$

$$keg 5 = big \# \text{ ye}$$

$$keg 3 = big \# \text{ ye}$$

$$g 400 = \# \text{ keg}$$

$$g 300 = \# \text{ keg}$$

$$g 500 = \# \text{ keg}$$

$$big 50 = \# \text{ keg}$$

$$big 30 = \# \text{ keg}$$

$$big 40 = \# \text{ keg}$$

Jatesbentaw: A ye jatesigiw jaabi jini

$$g \# + g 25 = keg 1$$

$$g 184 + g \# = keg 2$$

$$g \# + g 325 = keg 4$$

$$g 423 - g 23 = \# \text{ keg}$$

$$keg 7 + keg 5 = \# \text{ keg}$$

$$keg 25 + keg 18 = \# \text{ keg} \quad keg 75 - keg 28 = \# \text{ keg}$$

$$keg 38 \times 5 = \# \text{ keg}$$

$$keg 48 : 4 = \# \text{ keg}$$

$$keg 42 \times 2 = \# \text{ keg}$$

Jatejiniw

1. Nci taara ni tamati keg 56 ye sugu la. A ye keg 37 feere. Nci ka tamati to girinya ye joli ye?

2. Nfali ye tigakise keg 284 tila a muso 4 ce. Muso kelen o kelen be tiga kemegaramu joli soro?

3. jele ye tagalagomi borenin 2 soro min girinya ye g 274 ni g 226 ye. Tagalagomi girinya ye joli ye? O be ben bigaramu joli ma?

4. Madu ye mangoro keg 75 san dogo la. A ye keg 34 feere. Mangoro keg joli tora a bolo?

Ci benbaliw

Kunnajate: 4:2=# 10:2=# 20:2=# 30:2=#

walanba kere fila be jira

Walanba kere fila ninnu be seleke suguya jumen dilan? U be wele cogo di?

Walanba kere werew be jira.

Nin kere fila ciw ye selekemankanciw ye wa? U be jagon cetige wa? U mana lajanya, u be jagon cetige wa?

Marata: Ni ci fila te se ka jagon cetige hali n'u lajanya, u be wele ci benbaliw.

Ci benbaliw misali be jira kalanso konɔ.

Ci benbaliw be ke walanba kan.

Segesegeli: Kalandenw be ci benbaliw k'u ka walanninw kan.

Sanda - Feereda - Tɔnɔ



Ngolo ye kulusi do san Bamako dorome 41. A taalen u ka dugu la, a y'a feere dorome 49.

Ngolo ye kulusi soro cogo di? A y'a san joli?

Dorome 41 in be wele cogo di? Dorome 41 be wele sanda.

Ngolo ye kulusi in ke cogo di? A y'a feere joli? Dorome 49 in be wele cogo di? Dorome 49 in be wele feereda.

Tɔnɔ

Kulusi feerelen ko joli farala Ngolo ka wari kan?

Kulusi in sanda n'a feereda ye kelen ye wa? Jumen ka ca? Feereda ka ca ni sanda ye ni joli ye? Dorome 8 in be wele cogo di?

Dorome 8 be wele tɔnɔ.

Jate suguya jumen b'a to tɔnɔ be soro?

Marata: tɔnɔ = feereda - sanda ye.

Kɔlɔsi: Tɔnɔ be soro ni feereda ka ca ni sanda ye

Jatejiniw

1. Zan ye saga san dorome 374 Ncibugu dogo la, a y'a feere dorome 430 Ngolobugu dogo la.

Zan ye joli soro tɔnɔ ye?

2. Nele ye konon caman san dorome 245 ka tila k'u feere dorome 319. Nele ye joli soro tɔnɔ ye?

3. Nci ye gaalanin caman san dorome 245 ka farasuw fana san dorome 209. A y'u feere a ka dugu kalanden somogow ka ton ma dorome 498.

Nci ye joli soro tɔnɔ ye?

4. Jagokela ye duloki 8 san dorome 46 a kelen o kelen. A tilala k'u feere dorome 54 a kelen o kelen.

Dorome joli ye jagokela in tɔnɔ ye?

5. Karajagofeerela ye kulusi 9 san dorome 42 a kelen o kelen. A tilala k'u feere dorome 47 a kelen o kelen. A ye dorome joli soro tɔnɔ ye?

3 Sigiyoꝛmakatimu

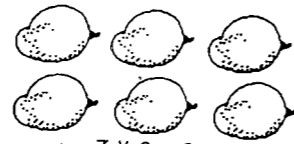
Kunnajate: $4 \times 3 = \#$ $4 \times 7 = \#$ $4 \times 5 = \#$ $4 \times 2 = \#$ $4 \times 9 = \#$

3 Sigiyoꝛmali

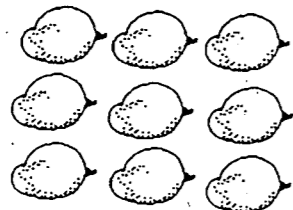
Kala, walannin, tiiricilan, mangoro walima fen wɛrɛ sigiyoꝛma 1, 2, 3, ...10 bɛ di kalanden ma: mangoro sigiyoꝛma joli bɛ kalanden bolo? O ye mangoro joli ye?



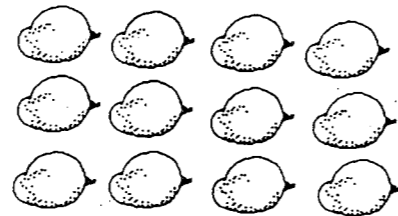
$$3 \times 1 = 3$$



$$3 \times 2 = 6$$



$$3 \times 3 = 9$$



$$3 \times 4 = 12$$

3 Sigiyoꝛmakatimu

$$3 \times 1 = 3$$

$$3 \times 6 = 18$$

$$3 \times 2 = 6$$

$$3 \times 7 = 21$$

$$3 \times 3 = 9$$

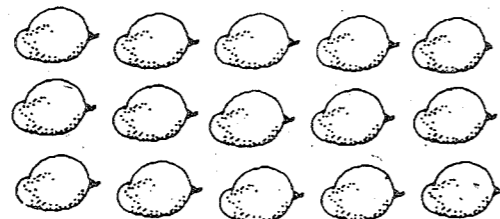
$$3 \times 8 = 24$$

$$3 \times 4 = 12$$

$$3 \times 9 = 27$$

$$3 \times 5 = 15$$

$$3 \times 10 = 30$$



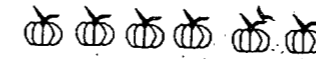
$$3 \times 5 = 15$$

6 Sigiyoꝛmakatimu

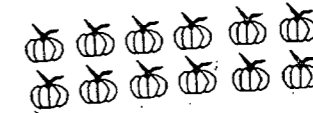
Kunnajate: $3 \times 2 = \#$ $3 \times 4 = \#$ $3 \times 6 = \#$ $3 \times 5 = \#$ $3 \times 8 = \#$

6 Sigiyoꝛmali

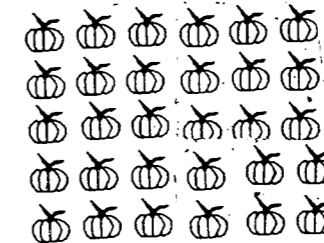
Kala, walannin, tamati walima fen wɛrɛ 6 sigiyoꝛma 1, 2, 3...10 bɛ di kalanden ma: tamati sigiyoꝛma joli bɛ kalanden bolo? O ye tamati joli ye?



$$6 \times 1 = 6$$



$$6 \times 3 = 18$$



$$6 \times 5 = 30$$

6 Sigiyoꝛmakatimu

$$6 \times 1 = 6$$

$$6 \times 6 = 36$$

$$6 \times 2 = 12$$

$$6 \times 7 = 42$$

$$6 \times 3 = 18$$

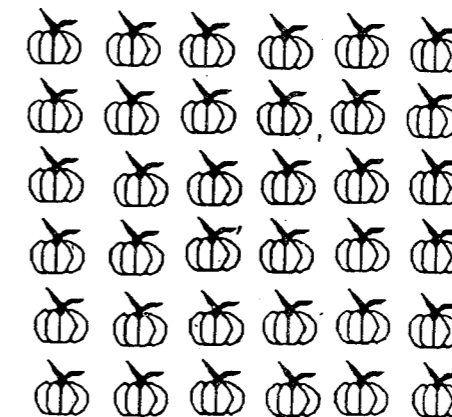
$$6 \times 8 = 48$$

$$6 \times 4 = 24$$

$$6 \times 9 = 54$$

$$6 \times 5 = 30$$

$$6 \times 10 = 60$$



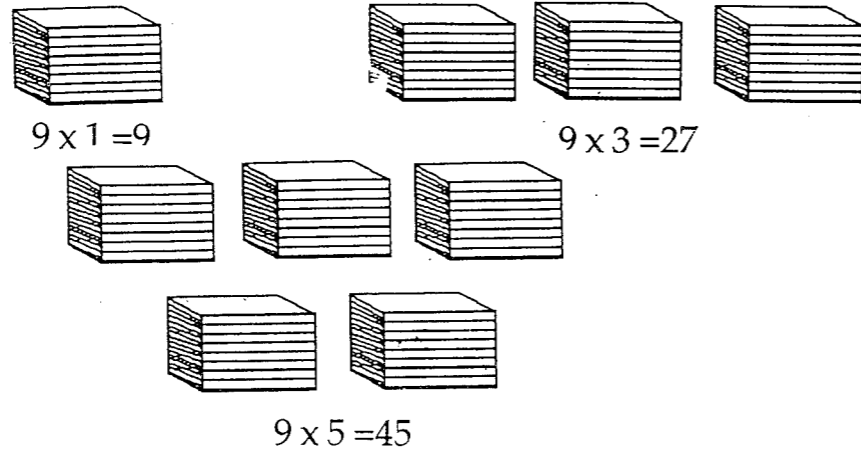
$$6 \times 6 = 36$$

9 sigiyɔɔmakatimu

Kunnajate: $6 \times 3 = \#$ $6 \times 7 = \#$ $6 \times 2 = \#$ $6 \times 6 = \#$ $6 \times 5 = 6 \times 10 = \#$

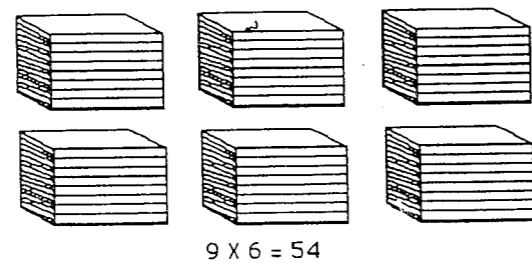
9 Sigiyɔɔmali

Kalanden, walannin, tiiricilan walima fen wɛɛ 9 sigiyɔɔma 1, 2, 3...10 bɛ di kalanden ma : gafe sigiyɔɔma joli bɛ kalanden bolo? O ye gafe joli ye?



9. Sigiyɔɔmakatimu

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



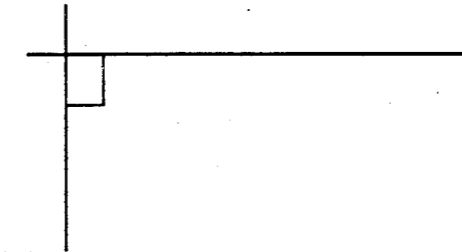
Tangili

Kunnajate: $4 \times 5 = \#$ $6 \times 4 = \#$ $9 \times 2 = \#$ $3 \times 6 = \#$
 $6 \times 4 = \#$ $9 \times 7 = \#$

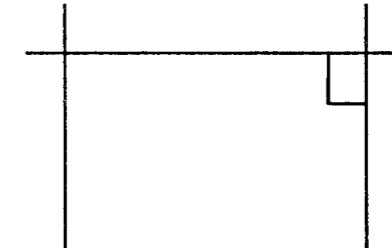
Ci dalen kelen bɛ kɛ walanba kan.

Nin ye mun ye? A bɛ cogo di?

Tomi kelen bɛ kɛ ci in kan, ka selekemankan kelen dilan ni selekemankan dilannan ye



Seleke in bɛ jira ka jininkali kɛ: nin ye mun ye?



Seleke siya jumɛn don?

Ci filaw bɛ cogo di?

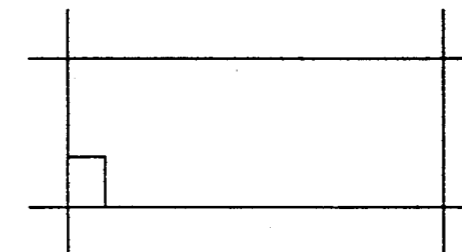
Tomi wɛɛ bɛ kɛ ci dalen kan, ka selekemankan filanan dilan.

Nin seleke in ye seleke siya jumɛn ye?

Nin ci filaw bɛ cogo di?

Tomi kelen bɛ kɛ ci filanan kan (o tomi ni tomi folɔ furancɛ janya ka kan ka surunya walima ka janya ni tomi filanan furancɛ ta ye).

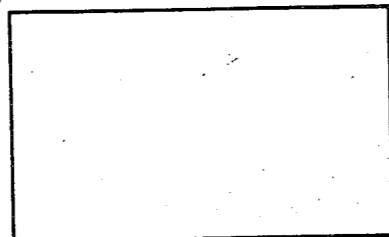
Selekemankan wɛɛ bɛ dilan.



Nin seleke in ye seleke siya jumen ye?

Nin ci filaw be cogo di?

Ci naaninan be janya walasa ani ci sabanan be jagon cetige.



Seleke joli be sawura in na?

Seleke siya jumen don?

Selekekun joli be sawura in na?

Kere joli be sawura in na?

Sawura in kerew janya be suma.

Kere ninnu janya ye kelen ye wa?

Kere minw ka jan olu be wele jjan, minw ka surun olu be wele jjsurun.

Jjan ye joli ye? U janya be cogo di?

Jjsurun ye joli ye? U janya be cogo di?

Jjanw be jagon cetige wa? Jjsurunw dun?

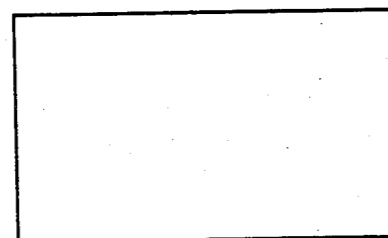
(jjan fila ni jjsurun fila)

Sawura in be wele *Tangili*

Marata :Tangili ye sawura ye selekemankan naani ni kere naani be min na. Kere minnu jnsinnen be jagon ma olu ye benbaliw ye, u kenenen don.

Tangili dilanni: Jjan =mtk 7, jjsurun =mtk 4

mtk 7



Segesegeli

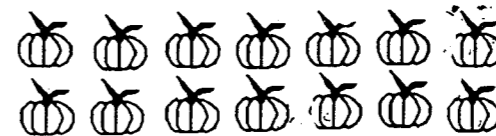
1. Tangili be dilan walanba ni walanninw kan.
2. Tangili be dilan min jjan janya ye mtk 9 n'a jjsurun janya ye mtk 5 ye.

7 Sigiyaɗmakatimu

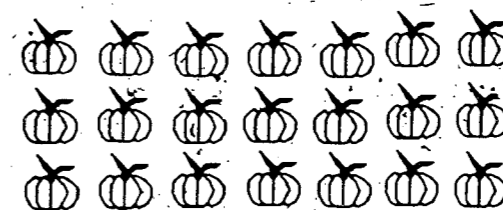
Kunnajate: $4 \times 3 = \#$ $6 \times 5 = \#$ $3 \times 7 = \#$ $9 \times 4 = \#$ $2 \times 6 = \#$

3 Sigiyaɗmali

Kala, walannin, tiiricilan walima fen were 7 sigiyaɗma 1, 2, 3...10 be di kalanden ma: lenburu sigiyaɗma joli be kalanden bolo? O ye lenburu joli ye?



$$7 \times 2 = 14$$



$$7 \times 3 = 21$$

7 Sigiyaɗmakatimu

$$7 \times 1 = 7$$

$$7 \times 6 = 42$$

$$7 \times 2 = 14$$

$$7 \times 7 = 49$$

$$7 \times 3 = 21$$

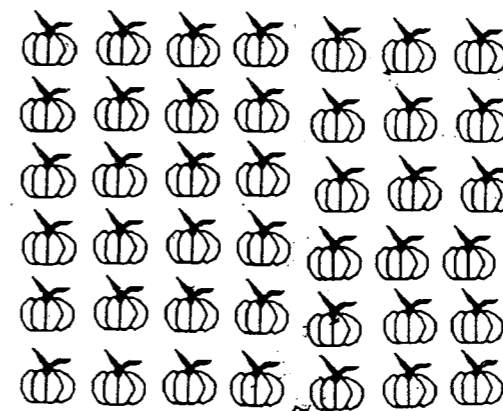
$$7 \times 8 = 56$$

$$7 \times 4 = 28$$

$$7 \times 9 = 63$$

$$7 \times 5 = 35$$

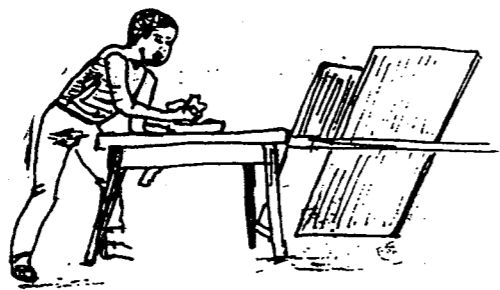
$$7 \times 10 = 70$$



$$7 \times 6 = 42$$

Donda

Kunnajate: $7 \times 8 = \#$ $40 : 4 = \#$ $7 \times 5 = \#$ $7 \times 2 = \#$



Zan ye tabali dɔ san dɔrɔmɛ 250. A y'a senw dilan dɔrɔmɛ 48.
Baarajini y'a ta dɔrɔmɛ 10 ka taa bila a ka so.

Dɔrɔmɛ 250 bɛ wele cogo di?

Dɔrɔmɛ 48 bɛ wele cogo di?

Dɔrɔmɛ 10 fana bɛ wele cogo di?

Zan ka tabali musakaw bɛnna joli ma?

Tabali musakaw bɛnna: $dɔrɔmɛ 48 + dɔrɔmɛ 10 = dɔrɔmɛ 58$.

Zan ka wari bɔta bɛɛ bɛnna joli ma?

Zan ka wari bɔta bɛnna :

$dɔrɔmɛ 250 + dɔrɔmɛ 58 = dɔrɔmɛ 308$.

Dɔrɔmɛ 308 bɛ wele tabali donda.

Donda bɛ sɔrɔ cogo di?

Marata : $Donda = sanda + musaka$

$Musaka = donda - sanda$

$Sanda = donda - musaka$

Jatejiniw

1. Nci ye fini san dɔrɔmɛ 250, k'a kala dɔrɔmɛ 57.

Nci ka fini donda bɛnna joli ma?

2. Gejuma ye neɓeso kɔrɔ dɔ san dɔrɔmɛ 678. Neɓeso dilannen kɔ,
Gejuma y'a kɔlɔsi k'a donda bɛnna dɔrɔmɛ 826 ma. Neɓeso dilanni
musaka bɛnna joli ma?

3. Kɔtine ye fini san dɔrɔmɛ 217, k'a kala 48, k'a don gala la
dɔrɔmɛ 35.

Fini donda bɛnna joli ma?

4. A' ye katimu dafa.

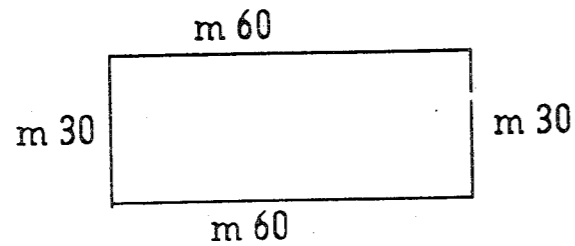
sanda	dɔrɔmɛ 634	dɔrɔmɛ 775	#
musaka	dɔrɔmɛ 127	#	dɔrɔmɛ 89
donda	#	dɔrɔmɛ 893	dɔrɔmɛ 934

Tangili lamini

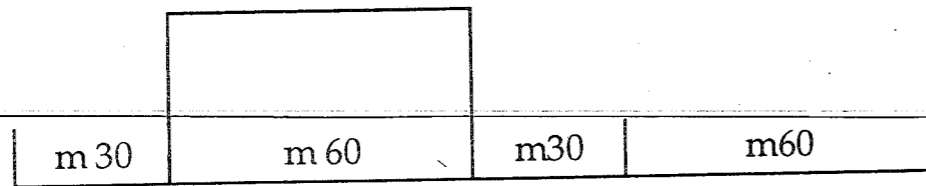
Kunnajate: $9 \times 5 = \#$; $6 \times 3 = \#$, $9 \times 3 = \#$, $6 \times 3 = \#$, $9 \times 3 = \#$

Tangili lamini

Kalanso nako tangililama don . A jɔjan janya ye m60 ye, a jɔsurun ta ye m30 ye .



Nako in lamini janya ye metere joli ye?



Keraw lajelen janya ye :

$$m 60 + m 30 + m 60 + m 30 = m 180 .$$

m 180 be wele tangili lamini. Tangili lamini be sara cogo di?

Marata : Tangili lamini = Jɔjan + jɔsurun + Jɔjan + jɔsurun.

$$L = J + j + J + j \text{ walima } L = (J + j) \times 2$$

$$L = m 60 + m 30 + m 60 + m 30 = m 180 .$$

$$L = (m 60 + m 30) \times 2 = m 90 \times 2 = m 180 . J$$

Jatejiniw :

1. An ka kalanso jɔjan janya ye m 8, a jɔsurun ta ye m 6 ye. Kalanso lamini janya ye joli ye?
2. Zan ka du jɔjan janya ye m 35, a jɔsurun ta ye m 20 ye. Zan ka du lamini tilance ye joli ye? A lamini dun?
3. Gafe tangililama do jɔjan janya ye mtk 28 ye, a jɔsurun ta ye mtk 19 ye, Gafe in lamini ye mtk joli ye?

4. A 'ye folo tangililama do lamini hake jini. A jɔjan janya ye mtk 57 ye, a jɔsurun ta ye mtk 48 ye.

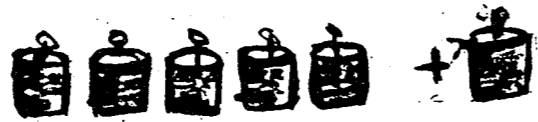
5. A 'ye katimu dafa.

jɔjan	jɔsurun	lamini tilance	lamini
m 15	m 7	#	#
m 185	m 97	#	#
m 245	m 127	#	#
#	mtk 24	#	mtk 194
mtk 138	#	#	mtk 468

Daw : ka bɔ 500 la ka taa 700 la

Kunnajate: $9 \times 3 = \#$, $6 \times 3 = \#$

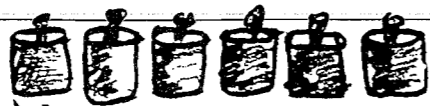
Ka bɔ kɛmɛ duuru la ka taa kɛmɛ wɔɔɔ la



Garamu 100 duuru girinya ye joli ye ? Kelen dun ? Garamu 500 mana kafo g 100 na o bɛ bɛn garamu joli ma?

Kɛmɛ wɔɔɔ sɛbɛncogo

kɛ	bi	ke
6	0	0



garamu kɛmɛ wɔɔɔ

Kɛmɛ wɔɔɔ bɛ sɛbɛn: 6 ka 0 fila k' o kinin fɛ.

Kɛmɛ wolonwula (700) sɔɔɔcogo

Kɛmɛ wolonwula sɔɔɔcogo n' a sɛbɛncogo bɛ kɛ i n' a fo kɛmɛ wɔɔɔ kɛra cogo min.

500 ni 600 sɔɔɔcogo wɛrɛw:

$$500 + 100 = 600 \quad 200 + 100 + 200 + 100 = 600$$

$$300 + 300 = 600 \quad 300 + 200 + 100 = 600$$

$$400 + 200 = 600 \quad 400 + 100 + 100 = 600$$

$$100 + 100 + 100 + 100 + 100 + 100 = 600 \quad 200 + 200 + 200 = 600$$

Ka bɔ 600 la ka taa 700 la: daw sɔɔɔcogo

Garamu 435

400	30	5
kɛ	bi	ke
4	3	5

Garamu 697

600	90	7
kɛ	bi	ke
6	9	7

Degeliw:

1. Da kalantaw: 324 405 690 635 700

2. Da fɔtaw ni sɛbɛntaw: 400 529 697 572 699

3. Da fila-fila, duuru-duuru, tan-tan dan ka bɔ 500 la ka taa 700 la.

Tile, don, dɔgɔkun, kalo, san

SAN 1960					
JANUARI	FEBRUARI	MARISI	APRILI	MAY	JUNWANI
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12

An be don jumen na bi?
 Sini ye don jumen ye? Sinikene dun? Sinikene ko dun?
 Kunun dun? Kunasini dun? Kunasini ko dun?
 Donw tɔgɔ ye: ntanen, tarata, araba, alamisa, juma, sibiri, kari.
 O ye don (tile) joli?
 O don (tile) wolonwula be lajelen be wele cogo di?
 Don (tile) joli be dɔgɔkun kelen kɔnɔ?
 Marata: Dɔgɔkun kelen = tile 7 ye.
 Marata: Kalo kelen ye tile 30 ye
 Kalo 1 =tile 30 ye.

Marata: San kelen ye kalo tan ni fila ye
 San 1 =kalo 12 ye.
 San kelen ye tile keme saba ni bi wɔɔɔ ni duuru ye.
 San 1 =tile 365 ye.
 Degeli sebenta: A' ye daw falen
 kalo 2 =tile # ye kalo 6 =tile # ye kalo 5 =tile # ye
 kalo 4 =tile # ye dɔgɔkun 4 =tile # ye dɔgɔkun 6 =tile # ye
 tile 60 =kalo # ye tile 450 =kalo # ye tile 24 =dɔgɔkun # ye
 tile 175 =dɔgɔkun # ye tile 210 =dɔgɔkun # ye
 tile 686 =dɔgɔkun # ye

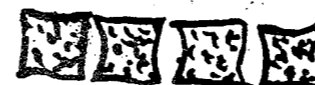
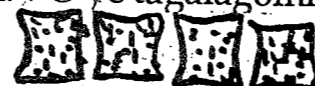
Daw : ka bo 700 la ka taa 800 na.

Kunnajate

Ka bo 700 la ka taa 800 na:



Tagalagomi pagati wolonwula be ta: nin ye tagalagomi joli ye?
 Tagalagomi pagati kelen be ta: tagalagomi joli be nin kɔnɔ? An k'o kafa tagalagomi keme wolonwula la. Tagalagomi joli kafora joli la? O ye tagalagomi pagati joli ye?



tagalagomi keme seegin

Keme seegin sebencogo

ke	bi	ke
8	0	0

Keme seegin be sɛben: 8 ka 0 fila ke o kinin fe.

800 sɔɔɔcogo werew

- 400 + 400 = 800
- 600 + 200 = 800
- 500 + 300 = 800
- 400 + 300 + 100 = 800
- 700 + 100 = 800

Daw sebencogo: ka bo 700 la ka taa 800 na.

784 Keme wolonwula ni bi seegin ni naani. Sinsibe ke fɔcogo kan.

Da sebencogo be ke katimu kɔnɔ.

ke	bi	ke
7	8	4

Degeli:

1. Da kalantaw be kalan: 701 793 748
1. Da fɔtaw ni sɛbentaw: 743 757 789 800
3. Ka duuru-duuru; tan-tan dan ka bo 700 la ka taa 800 na.

Sanda - Feereda - Bɔnɛ



Umu ye tulufilen san dɔrɔmɛ 85 ka taa n'a ye dɔgɔ la. A y'a kolɔsi ko tulu yeelenna, o la, a ye tulufilen feere dɔrɔmɛ 75.

Umu ye tulufilen san joli? A y'a feere joli?

Umu ye tɔnɔ sɔrɔ wa?

Umu bɔnɔna dɔrɔmɛ joli la? Dɔrɔmɛ 10 bɛ wele cogo di?

Dɔrɔmɛ 10 bɛ wele bɔnɔ.

Bɔnɔ bɛ sɔrɔ cogo di?

Marata : Bɔnɔ = Sanda - Feereda ye

Kolɔsi : Ni feereda ka dɔgɔn ni sanda ye feerekɛla bɛ bɔnɔ.

Jatepiniw :

1. Npiyɛ ye tigakisɛ san dɔrɔmɛ 674. Tigakisɛ caman tolila, o la a y'a tɔ feere dɔrɔmɛ 526. Npiyɛ bɔnɔna dɔrɔmɛ joli la?

2. Zan ye woson bɔrɛ 5 san. Bɔrɛ kelen o kelen sɔngɔ ye dɔrɔmɛ 154. A y'u bɛɛ feere dɔrɔmɛ 625.

Zan tɔnɔna de wa, tari a bɔnɔna de? Ni joli ye?

3. Madu ye bagi san dɔrɔmɛ 126, k'a kala dɔrɔmɛ 47 ka tila k'a kalalen feere dɔrɔmɛ 156.

Madu tɔnɔna wa, tari a bɔnɔna de? Ni joli ye?

4. Musa ye saga dɔ feere 675. Musa tɔnɔna ni dɔrɔmɛ 98 ye. Musa tun ye saga in san joli?

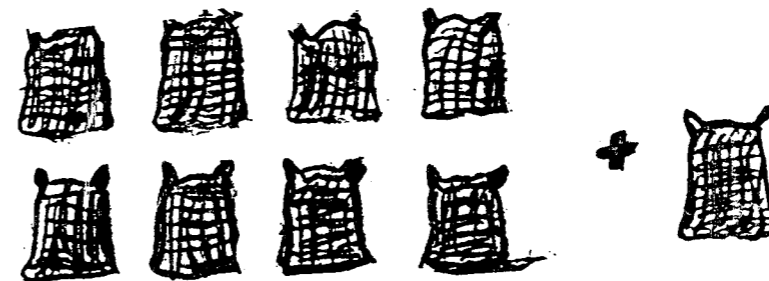
5. Alimami ye saga dɔ san dɔrɔmɛ 586. Seliba fɛ a ye saga nin feere 675. Alimami ka tɔnɔ kɛra dɔrɔmɛ joli ye?

6. Karajagofeerɛla ye fini san dɔrɔmɛ 685. Tile ye finin in jɛ tɛjɛ. A ye a feere 500. Bɔnɔ kɛra joli ye?

Daw: ka bɔ 800 na ka taa 999 na.

Kunnajate : 10:2 ; 15:3 ; 9:3 ; 8:2

Ka bɔ 800 na ka taa 900 na



ƙɔbɔrɛ 1 falen bɛ jira : nin girinya ye bagaramu joli ye ?

ƙɔbɔrɛ 8 falen girinya ye bagaramu joli ye?

ƙɔbɔrɛ 1 falen bɛ kafo bɔrɛ 8 in na: ƙɔbɔrɛ ye joli ye sisan?

Bagaramu joli kafora bagaramu joli la? O bɛ bɛn bagaramu joli ma?



bagaramu kɛmɛ kɔnɔntɔn

Kɛmɛ kɔnɔntɔn sɛbɛncogo

kɛ	bi	ke
9	0	0

Kɛmɛ kɔnɔntɔn bɛ sɛbɛn; 9 ka 0 fila k'o kinin fɛ.

900 sɔrɔcogo wɛrɛw

500 + 400 = 900 400 + 500 = 900 300 + 600 = 900

600 + 300 = 900 700 + 200 = 900

ka bɔ 800 na ka taa 900 na: Daw sɛbɛncogo

Kɛmɛ wolonwula ni bi seegin ni naani sɛbɛncogo

kɛ	bi	ke
7	8	4

Kemε wolonwula ni wɔɔɔ sɛbɛncogo

kε	bi	ke
7	0	6

Daw sɛbɛncogo ka bɔ 900 na ka taa 999 na

Kemε kɔnɔtɔn ni bi duuru ni saba

kε	bi	ke
9	5	3

Kemε kɔnɔtɔn ni kelen

kε	bi	ke
9	0	1

Degeli:

1. Daw bε kalan: 837 806 935 907

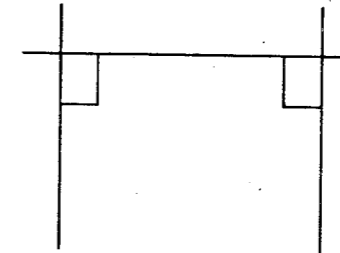
2. Daw bε sɛbɛn walanninw kan: 875 916 807 913

Kare

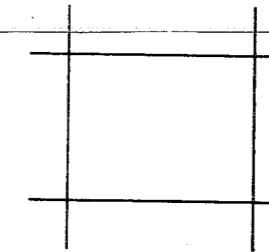
Seginkanni: $8 \times 7 = \#$ $6 \times 5 = \#$ $4 \times 6 = \#$ $8 \times 5 = \#$

$19 - 7 = \#$ $38 - 6 = \#$ $25 - 5 = \#$ $30 - 6 = \#$

Ci dalen kelen bε kε walanba kan. Tomi fila bε kε ci in kan, ka selekemankan fila dilan.

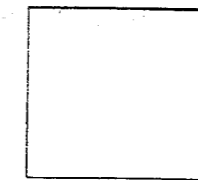


Tomi filaw furancε janya bε suma. O janya hake bε suma; ci jɔlen kelen o kelen ka kan ka bɔ ci dalen tomiw la. Ci dalen wεrε bε ci ka tamε tomi fila sɔɔɔlenw fε.



Nin seleke naaniw ye seleke suguya jumɛn ye? Nin ci filaw bε wele cogo di? Kεrε joli bε sawura in na? U janyaw ye kelen ye wa?

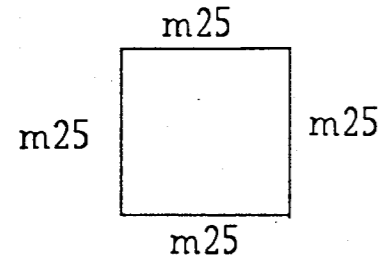
Marata: Kare ye sawura ye selekemankan naani ni kεrε naani kεɔlen bε min na.



Segεsegeli: Kare bε dilan walanninw kan.

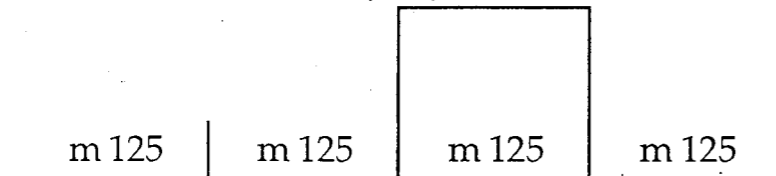
Kare lamini

Kunajate : $9 \times 6 = \#$ $7 \times 8 =$



Nci ka foro karelama don ,a kerε kelen o kelen janya ye m 12 ye.

Nci ka foro lamini ye mεterε joli ye?



Foro lamini ye : $m 125 + m 125 + m 125 + m 125 = m 500$

walima $m 125 \times 4 = m 500$

Kare lamini bε soro cogo di ?

Marata: $L = K + K + K + K$

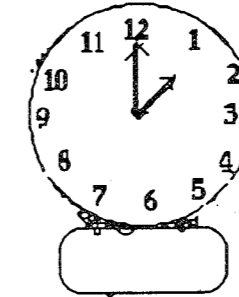
walima : $L = K \times 4$

$L = m 125 \times 4 = m 500$

Jatejiniw:

1. Folo karelama do kerε kelen o kelen janya ye mtk 48 ye. Folo in lamini ye mεterεtilakokεmε joli ye?
2. Ngolo ka du karelama kerε kelen o kelen janya ye m 42 ye. Ngolo ka du lamini ye mεterε joli ye?
3. Foro karelama do kerε kelen o kelen janya ye m 118 ye. Foro in lamini ye mεterε joli ye?
4. Kalanyoro dukεε karelama kerε kelen o kelen janya ye m 125 ye. Kalanyoro lamini ye mεterε joli ye?
5. Nin kare lamini ye joli ye? Na kerε janya ye m 8 ye?
6. Foro karelama do kerε kelen o kelen janya ye bim 13, a laminina ni negejuru dako 3 ye. Negejuru bim joli kera ka kare in lamini?

Waati - Sanga

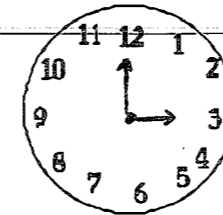


Waaitan bε jira kalandenw na: aw jε bε mun na waaitan kono?

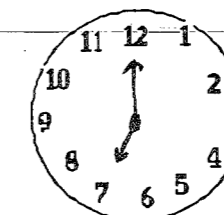
Waati joli sεbennen don waaitan kono?

Waati folb ye jumen ye? Laban dun? Duurunan dun?

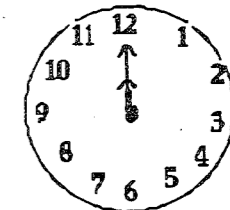
Kolosi: Jiralan surun bε waati jira.



waati 3



waati 7



waati 12

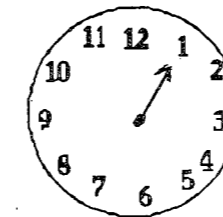
Jiralan surun munumunuko fila bε ben don kelen ma.

A munumunu ko fila ye waati 24 ye. Don kelen ye waati 24 ye.

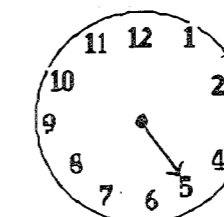
Don 1 = waati 24 ye

Tiirinin joli bε sεbenni fila cε? Tiirinin kelen o kelen ye sanga ye. Sanga joli bε sεbenni fila cε?

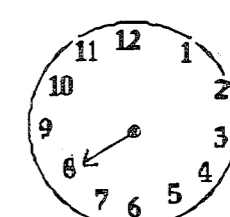
Kolosi: Waaitan kono, jiralan jan bε sanga jira



sanga 5



sanga 25



sanga 40

Jiralan jan mana munumunuko kelen kε o bε ben sanga 60 ma, o fana bε ben waati 1 ma.

Waati 1 =Sanga 60 ye

Jatesebenta

waati 8 =sanga # ye

waati 9 - sanga # ye

don 6 =waati # ye

waati 192 =don # ye

sanga 300 =waari # ye

sanga 40 + sanga # =waati 1 ye ; sanga # + sanga 35 =waati 1 ye

sanga 70 - sanga # =waati 1 ye ; waati 17 + waati # =don 1 ye

waati # + waati 8 =don 1 ye ; waati # + waati # =don 1 ye

waati # =don 2 ye ; waati # - don 5 ye

waati 30 - waati # =don 1 ye ; waati # - waati 5 =don 1 ye

waati 8 + waati 7 =waati # ye

waati 17 + waati 28 =waati # ye

waati 20 + sanga 120 =waati # ye

sanga 300 + sanga 30 =waati # ye

sanga 8 + sanga 12 =sanga # ye

sanga 35 + sanga 19 =sanga # ye

sanga 18 + sanga 27 =sanga # ye

Jatepiniw

1. Zan bora u ka dugu la waati 6 tuma. A sera a benke ka dugu la waati 9 tuma.

Zan ye waati joli ke dugu filaw ce?

2. Negesotigi ye bam 15 boli waati 1 konɔ. A be bam joli boli waati 3 konɔ?

3. Nci ye sanga 45 ke so ni sugu ce, ka sanga 25 ke sanni na. A seginto ye sanga 50 ke sira fe. Sanga joli donna Nci boli n'a seginni ce a ka so? O be ben waati joli ma?

waati 5 =sanga # ye

don 3 =waati # ye

waati 96 =don # ye

sanga 180 =waati # ye

sanga 120 =waati # ye

sanga # + sanga 35 =waati 1 ye

waati 17 + waati # =don 1 ye

waati # + waati # =don 1 ye

waati # - don 5 ye

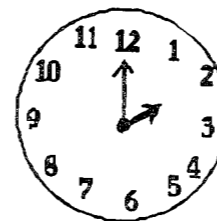
waati # - waati 5 =don 1 ye

Waati kalanni

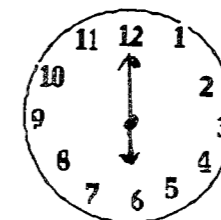
Kunnajate: $9 \times 5 = \#$ $6 \times 7 = \#$ $9 \times 2 = \#$ $6 \times 5 = \#$

Waati dafalen

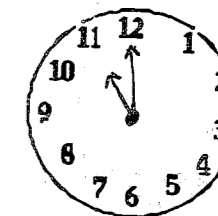
Jiralan surun be waati sebennen jira. Jiralan jan be da 12 kan.



waati 2

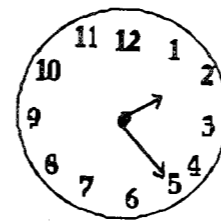


waati 6

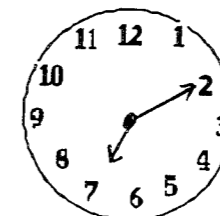


waati 11

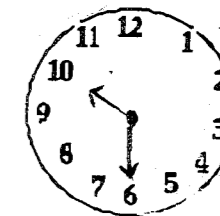
Waati..... tamena ni sanga.....ye:



waati 2 ni sanga 25

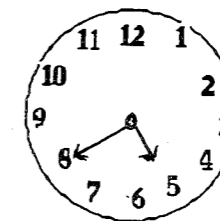


waati 7 ni sanga 10

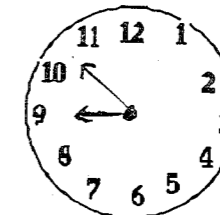


waati 10 ni sanga 30

Waati ni sanga... walima waati....to ye sanga....ye



Waati 5 ni sanga 40 walima waati 6 to ye sanga 20 ye.



Waati 9 ni sanga 53 walima waati 10 to ye sanga 17 ye.

segesegele: Waatilan ja be walanba kan, kalandenw be waati fo.

Daw : 1000

Kunnajate : $5 \times 3 = \#$ $4 \times 7 = \#$ $6 \times 3 = \#$ $9 \times 5 = \#$

Ba kelen : 1000



ጋጋጋጋጋ kelen falen be jira: nin girinya ye bagaramu joli ye?

ጋጋጋጋጋ kənəntən falen girinya ye bagaramu joli ye?

ጋጋጋጋጋ 1 falen be kafo ጋጋጋጋጋ 9 in na: ጋጋጋጋጋ ye joli ye sisan?

Bagaramu joli kafora bagaramu joli la? O be ben bagaramu joli ma?



bagaramu ba kelen

Ba kelen sɛbɛncogo

ba	kɛ	bi	ke
1	0	0	0

Ba kelen be sɛben 1 ka 0 saba k'o kinin fe

1000 sɔɔɔcogo werɛw

$900 + 100 = 1000$ $200 + 800 = 1000$

$700 + 300 = 1000$ $600 + 400 = 1000$

$400 + 600 = 1000$ $500 + 500 = 1000$

Sara, sɔɔɔ

Kunnajate : $7 \times 8 = \#$ $9 \times 3 = \#$



Nci ye minɛbara ye sirabadilanyɔɔ la. Kalosa o kalosa, dɔɔɔmɛ 578 be d'a ma. Kalosa in na, Nci ka nako kənɔfɛnw feerelen benna dɔɔɔmɛ 236 ma.

Nci ka baarakɛyɔɔ mɔgɔw be joli d'a ma kalosa o kalosa? Dɔɔɔmɛ 578 be wele cogo di?

Dɔɔɔmɛ 578 be wele Nci sara.

Nci ka wari sɔɔɔɔɔɔɔɔ be ye joli ye nin kalosa in na? Dɔɔɔmɛ 824 be wele cogo di?

Dɔɔɔmɛ 824 be wele Nci sɔɔɔ.

Jateɲiniw :

1. Donitala dɔ sara ye dɔɔɔmɛ 45 ye tile o tile. Nin kalo in na, a ye tile 20 de baara. Donitala in sara ye joli ye kalo in na?

2. Nco sara ye dɔɔɔmɛ 25 ye lɛɛɛ o lɛɛɛ. A be lɛɛɛ 5 baara tile o tile, ka tile 6 baara dɔgɔkun kɔɔɔ. Nco sara ye joli ye tile kɔɔɔ? A sara ye joli ye dɔgɔkun kɔɔɔ?

3. Ngolo fa sara ye dɔɔɔmɛ 514 ye, Ngolo yɛɛ sara ye dɔɔɔmɛ 435 ye. Ngolo n'a fa sɔɔɔ ye joli ye?

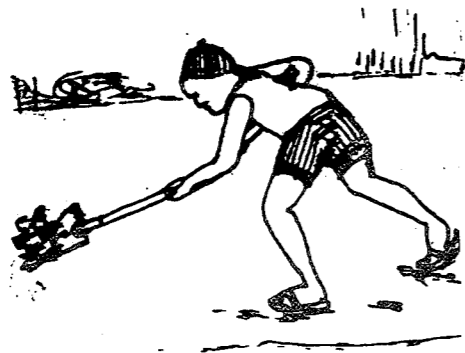
4. Sanba sara ye dɔɔɔmɛ 152 ye kalo o kalo. A ye kalo 6 de baara san kɔɔɔ. Fanta sara ye dɔɔɔmɛ joli ye san kɔɔɔ?

5. Musa sara benna dɔɔɔmɛ 972 ma tile 9 kɔɔɔ. A sara ye dɔɔɔmɛ joli ye tile kɔɔɔ?

6. Amadu sara ye dɔɔɔmɛ 50 ye tile kɔɔɔ. A ye tile 5 baara dɔgɔkun kɔɔɔ, ka dɔgɔkun 4 baara kalo kɔɔɔ. Amadou sara ye joli ye dɔgɔkun kɔɔɔ? Kalo kɔɔɔ?

Musaka

Kunnajate : $6 \times 8 = \#$ $9 \times 4 = \#$



Zanwuyekalo temenen, Nci sara benna dɔrɔmɛ 924 ma. A ye dɔrɔmɛ 316 di dumunisɔngɔ ye, ka duloki san a yerɛ ye dɔrɔmɛ 125.

Dɔrɔmɛ 924 bɛ wele cogo di ? Nci ye dɔrɔmɛ 316 bɔ wari jumɛn na?

Dɔrɔmɛ 316 dɔrɔn de bɔra Nci sara la? Joli bɔra Nci sɔrɔ la?

Min bɔra Nci sara la o ye: $dɔrɔmɛ 316 + dɔrɔmɛ 125 = dɔrɔmɛ 441$

Dɔrɔmɛ 441 bɛ wele cogo di? Musaka bɛ sɔrɔ cogo di?

Jatepiniw :

1. Fante taara sugu la, a ye musɔrɔ san dɔrɔmɛ 117, ka taafe san dɔrɔmɛ 348. Fanta ye joli musaka?

2. Seliba selen, Amadu fa ye bagi san dɔrɔmɛ 456 k'a kala dɔrɔmɛ 158. A tilala ka sanbara san dɔrɔmɛ 118. Amadu fa ye joli musaka?

3. Tile ɔ tile Umaru bɛ dɔrɔmɛ 435 sɔrɔ. Umaru ka musaka bannen kɔ, a ye dɔrɔmɛ 136 mara. Umaru ye joli musaka?

Bameterɛ

Kunnajate : $9 \times 3 = \#$ $3 \times 6 = \#$



Sumani bɛ kɛ dugukolɔ dalakɛnɛnɛn kan ni juru ye min janya ye kɛm 1 ye. Juru in da ko 10 bɛ bɛn mɛtɛrɛ 1000 ma.

Mɛtɛrɛ 1000 bɛ wele bamɛtɛrɛ (bam).

Marata : Bamɛtɛrɛ 1 ye mɛtɛrɛ 1000 ye

bam 1 =m 1000

bam 1 =bim 100

bam 1 =kɛm 10

Degɛlisɛbɛntaw : A' ye janya sumanikelanw falɛn.

bam 2 =kɛm # ye	bam 8 =kɛm # ye	bam 5 =kɛm # ye
bam 4 =bim # ye	bam 7 =bim...ye	bam 3 =bim # ye
kɛm 30 =bam # ye	kɛm 70 =bam...ye	kɛm 90 =bam # ye
bim 300 =bam # ye	bim 800 =bam..ye	bim 60 =bam # ye
bam 5 ni kɛm 5 =kɛm # ye	bam 3 ni kɛm 2 =kɛm # ye	
bam 1 ni kɛm 17 =kɛm # ye	bam 4 ni bi 2 =bim # ye	
bam 6 ni bim 25 =bim # ye	bam 10 ni bim 345 =bim # ye	

Jatesɛbɛntaw : A' ye jatesigiw jaabi jini.

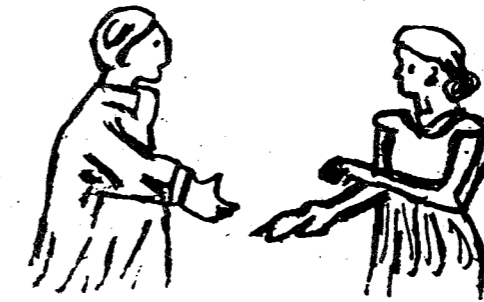
bam 375 + bam 189 =bam # ye	bam 745 + bam 96 =bam # ye
bam 87 - bam 19 =bam # ye	bam 854 - bam 628 =bam # ye
bam 3 + kɛm 32 =kɛm # ye	bam 5 - bim 89 =bim # ye
bam 7 + bim 285 =bim # ye	bam 5 - bim 189 =bim # ye
bam 4 - kɛm 23 =kɛm # ye	bam 1 - bim 72 =bim # ye

Jatesigiw :

1. Dugu fila furance janya ye bam 324 ye. Mɔbilitigi dɔ ye bam 217 boli o furance in na. A tɔ ye bamɛtɛrɛ joli ye?
2. Ncibugu ni Ngolobugu furance janya ye bam 87 ye. Ngolobugu fana ni Sokuranin furance janya ye bam 59 ye. Ncibugu ni Sokuranin furance janya ye bamɛtɛrɛ joli ye?
3. Numubugu ni Ncibugu furance janya ye bam 27 ye. Gejuma y'o furance boli negeso la sijnɛ 4. Gejuma ye bamɛtɛrɛ joli boli?
4. Mɔbili dɔ bɛ bam 60 boli waati 1 kenɛ. O mɔbili in bɛ bamɛtɛrɛ joli boli waati 5 kɔnɔ?
5. Bamako ni Moti furance janya ye bam 375 ye. Bamako ni Segu furance janya ye bam 286 ye. Moti ni Segu furance janya ye bamɛtɛrɛ joli ye?

Marata

Kunnajate: 30 : 2 = # 20 : 2 = #



Ngolo sɔrɔ ye dɔrɔmɛ 897 ye. A ka musakaw benna dɔrɔmɛ 649 ma. Ngolo ka wari tɔ ye joli ye?

Dɔrɔmɛ 897 bɛ wele cogo di?

Dɔrɔmɛ 649 bɛ wele cogo di?

Ngolo ka wari tɔ ye joli ye?

Ngolo ka wari tɔ ye: dɔrɔmɛ 897 - dɔrɔmɛ 649 = dɔrɔmɛ 248.

Ni Ngolo mago tɛ se dɔrɔmɛ 248 in ma, a bɛ mun k'a la? Dɔrɔmɛ 248 bɛ wele cogo di? Marata bɛ sɔrɔ cogo di?

Marata = Sɔrɔ - Musaka

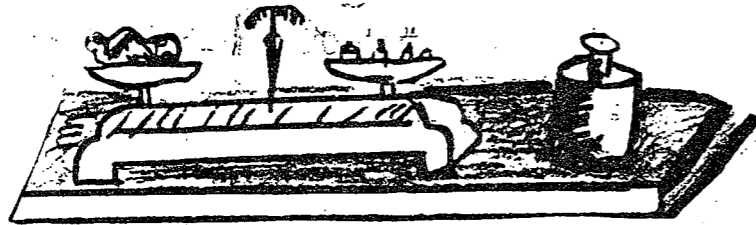
Jatepiniw:

1. Musa ye dɔrɔmɛ 718 sɔrɔ kalo tɛmɛnɛn. A ye dɔrɔmɛ 479 k'a ka musakaw ye. Musa ka wari marata kɛra joli ye?
2. Nci ye dɔrɔmɛ 989 ci a fa ma. Fa in ye dɔrɔmɛ 582 k'a mago ye k'a tɔ mara. Fa ye wari min mara o ye joli ye ?
3. Sibiri bɛ baara la Bamako. A sɔrɔ kɛra dɔrɔmɛ 895 ye nin kalo in na. A ye dɔrɔmɛ 250 ci a fa ma, ka dɔrɔmɛ 470 k'a yɛrɛ musaka ye? Sibiri ka wari marata ye joli ye?
4. A' ye katimu dafa

Sɔrɔ	dɔrɔmɛ 714	dɔrɔmɛ 478	dɔrɔmɛ 812
musaka	dɔrɔmɛ 278	dɔrɔmɛ 197	dɔrɔmɛ 587
marata	#	#	#

Bagaramu

Kunnajate: $9 \times 5 = \#$ $20 : 4 = \#$



Fen da be korota, fen min girinya ye g 1000 ye.

Girinya sumanikeminen minw kera ka korotali ke, olu girinyaw be kafo:

$$g 500 + g 200 + g 200 + g 100 = g 1000$$

Kabakuru in girinya ye garamu joli ye?

Metere 1000 be wele cogo di?

Garamu 1000 be wele cogo di?

Bagaramu 1 ye garamu joli ye?

Marata: Bagaramu 1 ye garamu 1000 ye.

	bag	keg	big	g
bag 1 = g 1000 ye	1	0	0	0
bag 1 = big 100 ye	1	0	0	
bag 1 = keg 10 ye	1	0		

Degelis bentaw: A' ye girinya sumanikelanw falen.

bag 3 = big # ye	bag 5 = big # ye	bag 4 = keg # ye
bag 9 = keg # ye	bag 25 = keg # ye	bag 76 = keg # ye
keg 50 = bag # ye	keg 90 = bag # ye	keg 900 = bag # ye
keg 730 = bag # ye	keg 970 = bag # ye	big 600 = bag # ye
big 800 = bag # ye	big 900 = bag # ye	bag 124x5 = bag # ye
bag 38x9 = bag # ye	bag 432 + bag 396 = bag # ye	
bag 842 - bag 572 = bag # ye	bag 756 : 9 = bag # ye	

bag 845:5 = bag # ye

bag 956 - bag 497 = bag # ye

Jatepin iw:

1. Jɔgosi bannen Seriba ye jɔ bag 825 k'a ka jiginɛba kɔnɔ, ka bag 547 ke jiginɛnin kɔnɔ. jɔ bagaramu joli be Seriba ka jiginɛw kɔnɔ?

2. Binta ye bore 4 fa malokise la. Bore kelen o kelen falen girinya ye bag 100 ye. Binta ka malokise girinya ye bagaramu joli ye?

3. Sibiri girinya ye bag 78 ye. A y' a dogonin ni doni ta negeso la. Dogonin girinya ye bag 49 ye, doni ta ye bag 28 ye. Bagaramu joli be negeso in kan?

4. Ngolo ye tigakise bag 196 tila a muso 4 ce. Muso kelen o kelen ye tigakise bagaramu joli sɔrɔ?

Kere saba

Kunnajate: $8 \times 6 = \#$ $60 : 2 = \#$ $90 : 3 = \#$ $43 + 7 = \#$

Kere saba

Ci jengennen do be ke walanba kan.

Nin ye ci siya jumen ye?

Tomi kelen be ke ci in kan, ka selekeba walima selekenin do dilan.

Nin ye seleke siya jumen ye?

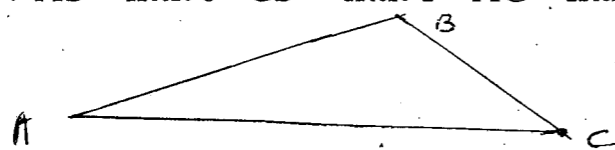
Ci sabanan be ke ka ci filaw cetige. Kere joli be sawura in na?

Seleke joli b'a la? Selekekun joli b'a la?

Sawura in be wele kere saba

Marata: Kere saba ye sawura ye ni kere saba ni seleke saba be min na.

Kere saba dilanni: $AB = \text{mtk } 6$ $CB = \text{mtk } 4$ $AC = \text{mtk } 3$



Segesegeli:

1. Kere saba dilanni walanba ni walannin kan.
2. Ka kere saba dilan min kerew janya ye mtk 7, mtk 5 ni mtk4 ye.

Sigiyaroma 10 walima 100

Kunnajate: $5 \times 9 = \#$



Kalanyaro do kalanso ye 10 ye. Kalanden 37 be kalanso kelen o kelen kono. Kalanden joli b'o kalanyaro kono?

Mun jininkali kera an na?

Jate suguya jumen b'a to an b'a sara?

Joli sigiyaroma joli?

Joli sigiyaroma joli?

Kalanden hake min be kalanyaro in kono o ye: $\begin{array}{r} 37 \\ \times 10 \\ \hline = 370 \end{array}$

Kalanden joli be kalanso kono? Joli be kalanyaro kono?

Danfara jumen be da ninnu sebencogo ce? Danfara jumen be 37 ni 37×10 jaabi ce? 37 sigiyaroma 10 jaabi be soro cogo jumen teliya la?

Marata: Da sigiyaroma 10 be ben da 0 sebennen ma ni o kelen sebennen y'a kini fe.

Misali: $19 \times 10 = 190$

$5 \times 10 = 50$

$90 \times 10 = 900$

Walanbila hukumu kono, kalanden 100 ye wari fara jagon kan. U kelen o kelen ye dorome 7 sara. O kalandenw ka wari benna joli ma?

Kalanden kelen ye dorome joli sara? U ka wari lajelen benna dorome joli ma? Danfara jumen be da ninnu sebencogo ce? Danfara jumen be 7 ni 7×100 jaabi ce? 7 sigiyaroma 100 jaabi be soro cogo jumen teliya la?

$\begin{array}{r} 7 \\ \times 100 \\ \hline = 700 \end{array}$

Marata: Da sigiyaroma 100 be ben da o sebennen ma ni 0 fila sebennen y'a kinin fe?

Misali: $3 \times 10 = 300$ $5 \times 300 = 1500$ $9 \times 100 = 900$

Degelisɛbɛntaw: A' ye jatesigiw jaabi jini.

$$27 \times 10 = \# \quad 8 \times 100 = \# \quad 94 \times 10 = \# \quad 6 \times 100 = \#$$

$$9 \times 100 = \# \quad 72 \times 10 = \#$$

$$m \ 35 \times 10 = m \# \text{ye} \quad \text{bag } 5 \times 100 = \text{bag} \# \text{ye}$$

$$l \ 85 \times 10 = l \# \text{ye} \quad \text{kɛg } 7 \times 100 = \text{kɛg} \# \text{ye}$$

$$\text{mtt } 93 \times 10 = \text{mtt} \# \text{ye} \quad \text{bim } 9 \times 100 = \text{bim} \# \text{ye}$$

Jatɛpiniw:

1. Fulakɛ ye minɛn 10 fa nɔnɔ na. Nɔnɔ litiri 12 bɛ minɛn kelen o kelen kɔnɔ. Nɔnɔ litiri joli bɛ minɛnw bɛɛ lajɛlen kɔnɔ?

2. Bɔrɛmin 10 bɛ Nci bolo. Tagalagomi kuru 29 b'a kelen o kelen kɔnɔ. Tagalagomi joli bɛ Nci bolo?

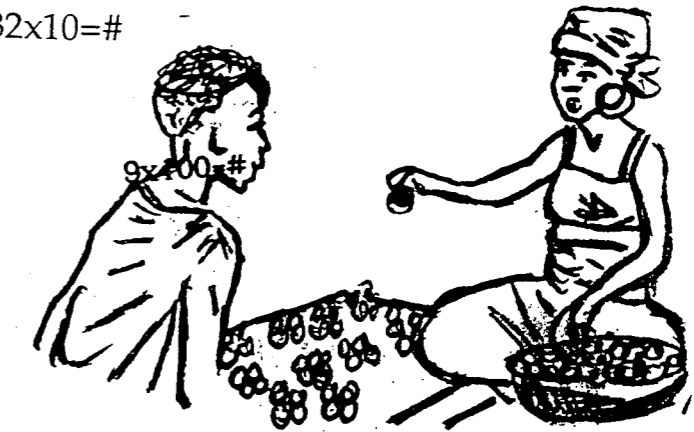
3. Sɔrɔdasicɛta kɛra dugu 100 la. Dugu kelen o kelen ye cɛ 5 di. Mɔgɔ joli tara?

4. Gesedala dɔ bɛ finikɔnɔ m 7 da don o don. Tile 10 kɔnɔ a ka finikɔnɔ dalɛn janya ye mɛtɛrɛ yoli ye?

5. Zan bɛ dɔrɔmɛ 8 mara don o don. A ka wari maralɛn ye joli ye tile 10 kɔnɔ? Tile 100 kɔnɔ?

Tilali 10 ye, walima 100 ye

Kunnajate: $2 \times 10 = \#$ $32 \times 10 = \#$



Tilali 10 ye

Karamɔgɔ ye tagalagomi 150 tila kalanden 10 cɛ. Kalanden kelen ye tagalagomi joli sɔrɔ?

Kalanden kelen ye tagalagomi hake min sɔrɔ o ye:

$$\begin{array}{r|l} \text{tagalagomi } 150 : 10 = & 150 \quad 10 \\ \text{tagalagomi } 15 \text{ ye} & 50 \quad = 15 \\ \hline & 0 \end{array}$$

Dɔrɔmɛ 452 tilala kalanden 10 cɛ. Kalanden kelen ye dɔrɔmɛ joli sɔrɔ?

Kalanden kelen ye min sɔrɔ o ye:

Dɔrɔmɛ 452 : 10 = dɔrɔmɛ 45 ye, a tɔ ye dɔrɔmɛ 2 ye.

$$\begin{array}{r|l} 452 & 10 \\ 52 & = 45 \\ \hline 2 & \end{array}$$

Marata: Da tilalɛn 10 ye o jaabi bɛ bɛn da o sɛbɛnnɛn ma ka 0 kelen walima jatɛdɛn kelen jɔsi a kinin fɛ. Jatɛdɛn jɔsilɛn ye tilali tɔ ye.

Misali: $90 : 10 = 9$; $250 : 10 = 25$; $92 : 10 = 9$, tɔ ye 2 ye.

$876 : 10 = 87$, tɔ ye 6 ye.

Tilali 100 ye:

- Tigakisɛ bag 700 ka kan ka tila sɛnɛkɛla 100 cɛ. Sɛnɛkɛla kelen bɛ bagaramu joli sɔrɔ?

Sɛnɛkɛla kelen ka kan ka min sɔrɔ o ye:

$$\begin{array}{r|l} 700 & 100 \\ 000 & = 7 \end{array}$$

bag 700 : 100 = bag 7.

- Dɔrɔmɛ 534 tila mɔgɔ 100 cɛ. Mɔgɔ kelen ye dɔrɔmɛ joli sɔrɔ?

Mɔgɔ kelen ye min sɔrɔ o ye:

$$\begin{array}{r|l} 534 & 100 \\ 034 & =5 \end{array}$$

Dɔrɔmɛ 534 : 100 = dɔrɔmɛ 5 a tɔ ye dɔrɔmɛ 34 ye

Marata : Da tilalen 100 ye o jaabi bɛ bɛn da o sɛbɛnnen ma ka 0 fila walima jateden fila jɔsi a kinin fɛ. O jateden fila ye tilali tɔ ye.

Misali : 900 : 100 = 9; 379 : 100 = 3, tɔ ye 79 ye.

Degelisɛbɛntaw : A' ye jatesigiw jaabi jini.

$$150 : 10 = \# \quad 70 : 10 = \# \quad 600 : 100 = \# \quad 1000 : 100 = \#$$

$$207 : 10 = \# \quad 62 : 10 = \# \quad 437 : 100 = \# \quad 207 : 100 = \#$$

Jatejiniw :

1. jɔsi bag 120 tilala sɛnɛkela 10 cɛ. Sɛnɛkela kelen o kelen ye bagaramu joli sɔrɔ?

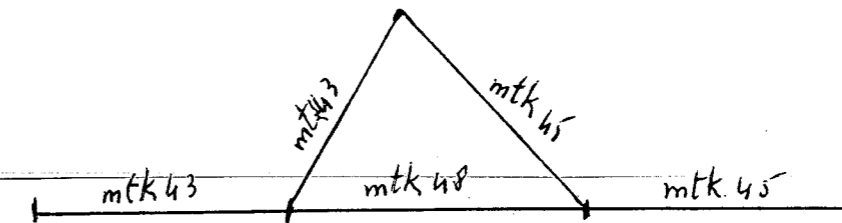
2. Taji 1 1000 ka kan ka tila balikukalanso 100 cɛ. U kelen o kelen bɛ litiri joli sɔrɔ?

Kɛrɛ saba lamini

Kunnajate : $80 : 10 = \#$ $200 : 100 = \#$



Zan ye folo kɛrɛ sabalama dɔ dilan a ka so la. Folo min kɛrɛw janya ye mtk 43, mtk 48 ani mtk 45 ye. Folo in lamini janya ye mtk joli ye



Folo in lamini janya ye : $mtk 43 + mtk 48 + mtk 45 = mtk 136$ ye
Kɛrɛ saba lamini bɛ sɔrɔ cogo di?

Marata : Kɛrɛ saba lamini bɛ bɛn a kɛrɛ sabaw janya hakɛw kafolen ma.

Jatejiniw :

1. A' ye kɛrɛ saba dɔ lamini janya hake jini, kɛrɛw janya ye mtt 27, mtt 35 ani mtt 25 ye.

2. Madu ka du kɛrɛ sabalama don. A kɛrɛw janya ye m 21, m 27 ani m 38 ye. Du in lamini ye mɛtɛrɛ joli ye?

3. Kalanyɔrɔ nako kɛrɛw janya ye m 27, m 28 ani m 36 ye. Nako in lamini ye mɛtɛrɛ joli ye?