

# MATHEMATICS IN XITSONGA

Buku ya 2  
Tikotara ta  
3 na 4



MATHEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 2

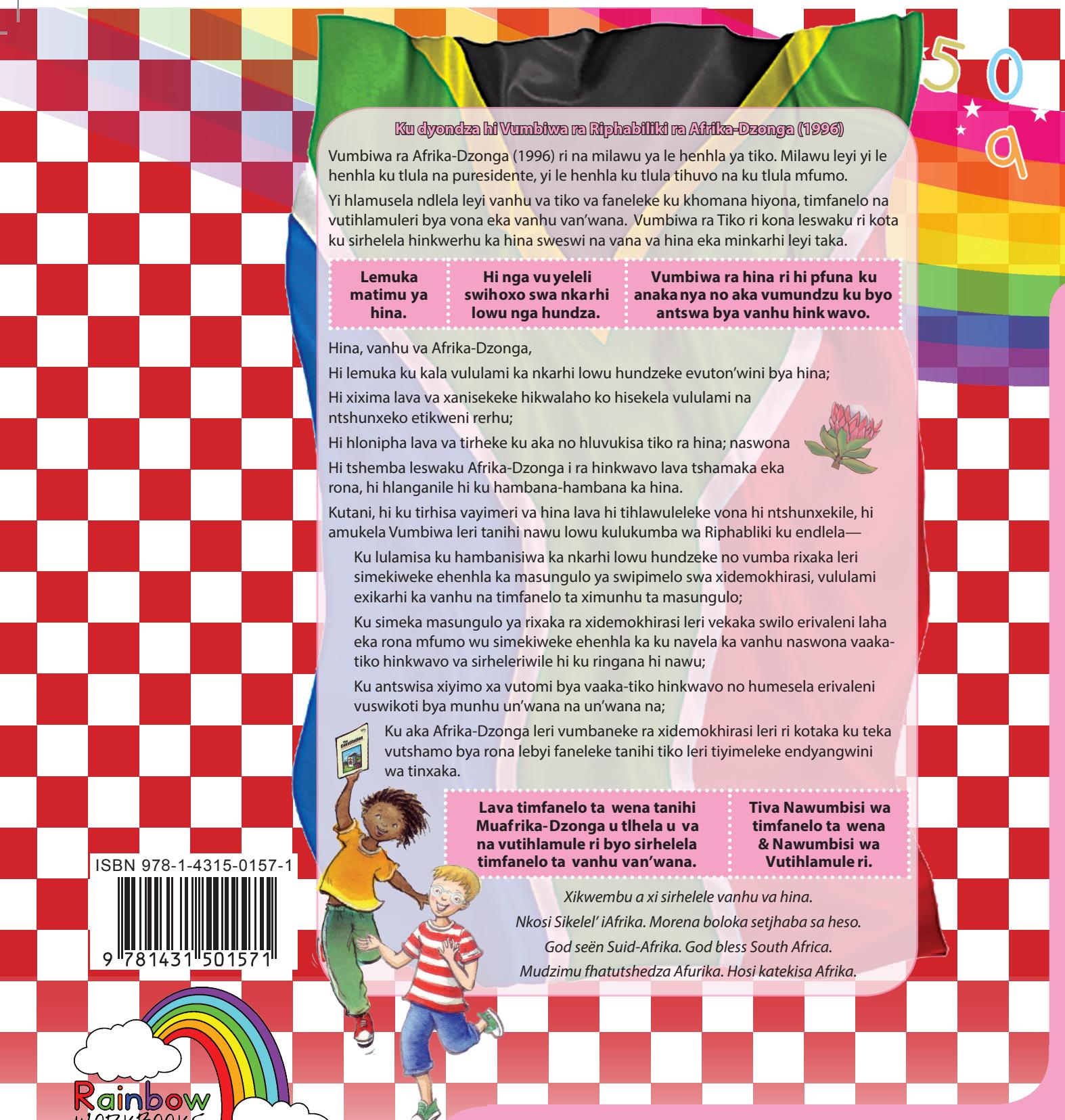
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MATHEMATICS IN XITSONGA  
GRADE 3 – BOOK 2  
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8th Edition

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Manana Angie  
Motshekga, Holobye wa  
Dyondzo ya Masungulo



Nkulukumba Enver Surty,  
Xandla xa Holobye wa  
Dyondzo ya Masungulo

Tibuku leti to tirhela ti endleriwe vana va Afrika-Dzonga ehansi ka vurhangeri bya Holobye wa Dyondzo ya Masungulo. Manana Angie Motshekga na Xandla xa Holobye wa Dyondzo ya Masungulo. Nkulukumba Enver Surty.

Tibuku to tirhela ta Rainbow ti vumba xiyenge xin'wana xa ntlawa wa micingiriko ya Ndzwawulo ya Dyondzo ya Masungulo leyi kongomisiweke eka ku antswisa matirhelo ya vadyondzi va Vaafrika-Dzonga eka tigiredi ta ntsevu to sungula. Tanihi xin'wana xa swilo leswi nga swirhangana eka nkunguhato wa matirhelo ya mfumo, phurojeke leyi yi humelerile hi ku seketeriwa hi timali hi Nkwama wa Timali ta Tiko. Leswi swi endlile leswaku Ndzwawulo yi swi kota ku endla leswaku tibuku leti to tirhela, ti kumeka hi tindzimi hinkwato ta ximfumo handle ko hakeleriwa.

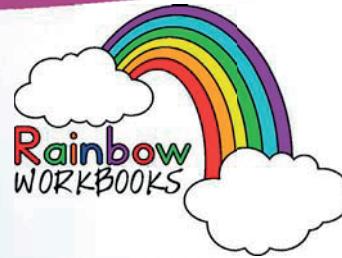
Hi tshemba leswaku tibuku leti ti ta pfuna vadyondzisi eka micingiriko ya vona yo dyondzisa ya masiku hinkwawo no tiyisisa leswaku vadyondzi va vona va kota ku heta kharikhulamu. Hi tiyisise leswaku hi letela mudyondzisi eka nghingiriko wun'wana na wun'wana hi ku katsa mifungho leyi kombisaka leswi mudyondzi a faneleke ku endla swona.

Hi ni ntshembo wa leswaku vana va ta tiphina no tsakela ku tirha micingiriko leyi nga ebukwini loko va ri karhi va ya emahlweni no dyondza, na leswaku wena, mudyondzisi, u ta tsaka swin'we na vona.

Hi mi navelela ku humelela, wena na vadyondzi va wena eku tirhiseni tibuku leti to tirhela.



Giredi ya 3



M a t e m a t i k i

A decorative title consisting of the word "Matematik" in a stylized font. Each letter is on a separate colored rectangular tag: M (orange), a (red), t (blue), e (yellow), m (green), a (purple), t (orange), i (pink), k (blue), and i (yellow).

Buku leyti ya:



XITSONGA

Buku ya

2

**65**

# Tinomboro ta 500 ku fika eka 600

Siku:

Kotara ya 3



Hlayela u tlhela u tsala.

- a. Tirhisa chati leyi landzelaka ku ku pfuna ku hlayela ku suka eka 500 ku fika eka 600.

Vulela tinomboro ehenhla loko u ri karhi u hlayela.

500



501			504					510
						518		
	522							
				536				
541							549	
						558		
		573						
						588		590
592			595					600

- b. Tsala tinomboro leti siyiweke eka giridi laha henhla.

- c. Tsala 10 wa tinomboro leti landzelaka 500.

500; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- d. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-2.

510; 512; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- e. Tsala tinomboro hinkwato hi patironi ya vu-2 ku suka eka 548 ku fika eka 570.

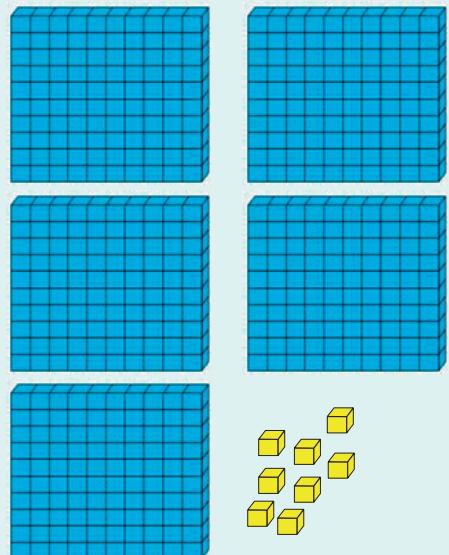
548; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; 570

- f. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

515; 520; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



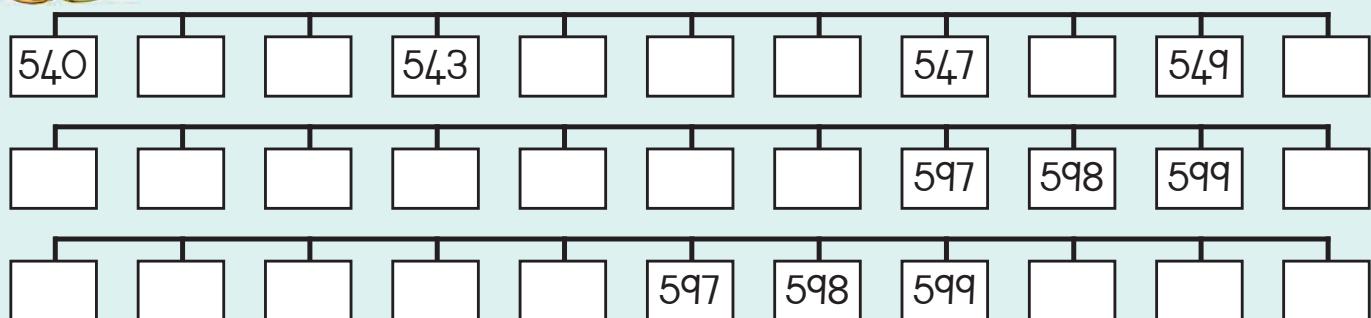
Xana u hlayele tibuloko tingani?



Xana u hlayele tibuloko hi ndlela yihi?



Hetisa mindzhati ya mintsengo.



Hetisa tafula.

Tsala ku suka eka nomboro leyitsongo ku ya eka leyikulu.

Tsala ku suka eka nomboro leyikulu ku ya eka leyitsongo.

582, 586, 584, 581, 585		
566, 506, 560, 516, 506		



Tsala nomboro leyi landzelaka hi marito.

520

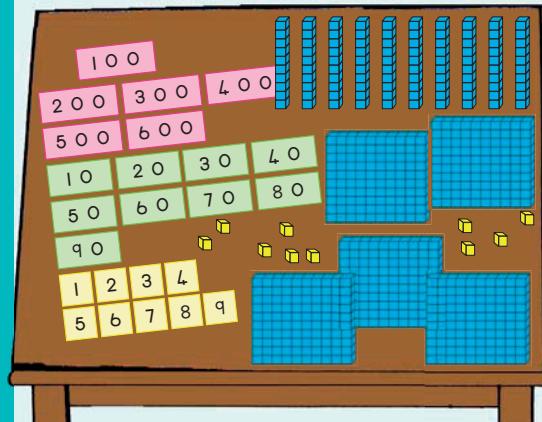


# 66

## Tinomboro tin'wana ta 500 ku fika eka 600

Siku:

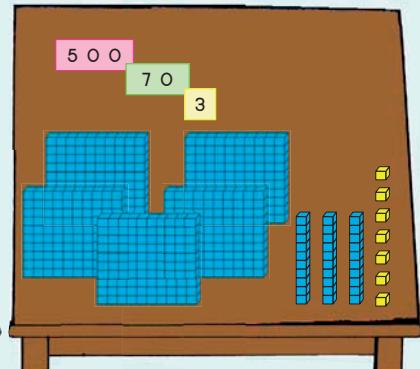
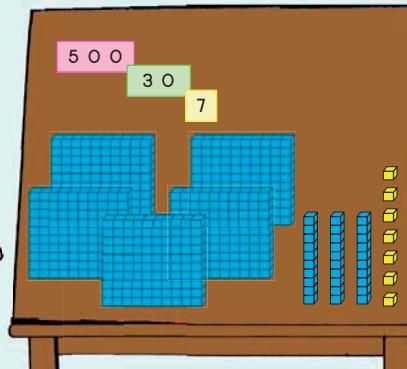
Kotara ya 3



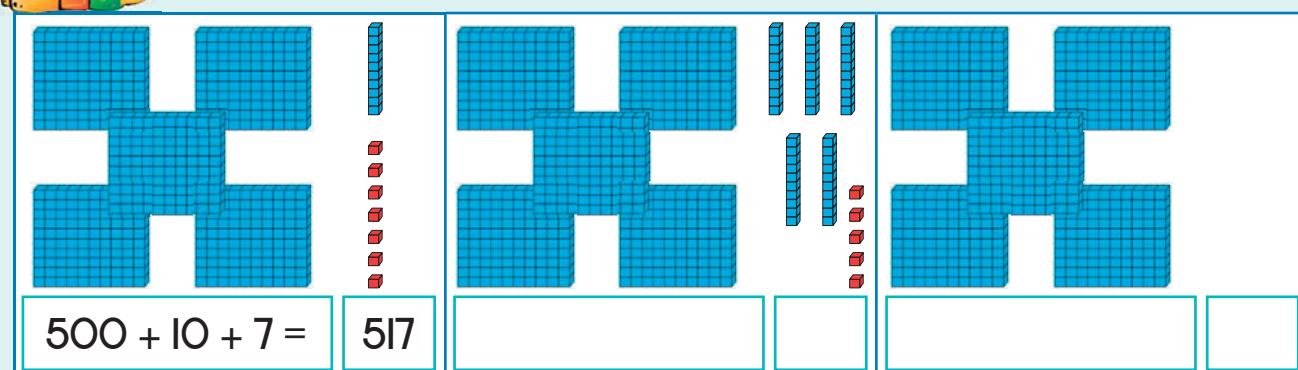
Peter u na makhadi ya xiyimela-nkoka  
lama landzelaka na tibuloko ta beyisi  
ya khume.

Mudyondzisi u kombela Peter  
ku kombisa 537 hi makhadi  
ya yena na tibuloko.

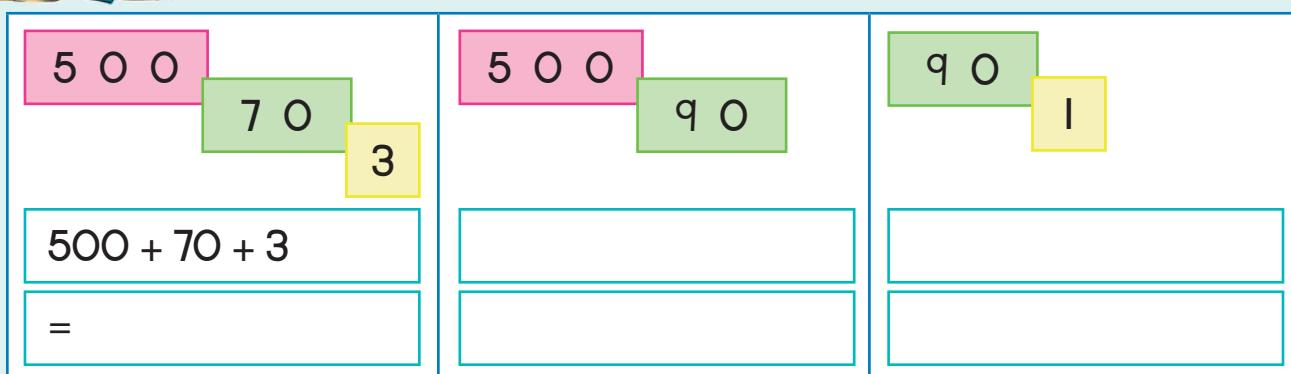
Leswi hi swona leswi Aakar  
a swi kombiseke. Hi xihi xihoxo  
lexi a xi endleke?



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





Hetisa ndzhati wa mintsengo.

550    551    552                            560

Tsala tinomboro hinkwato letitsongo eka 556. \_\_\_\_\_

Tsala tinomboro hinkwato letikulu eka 556. \_\_\_\_\_

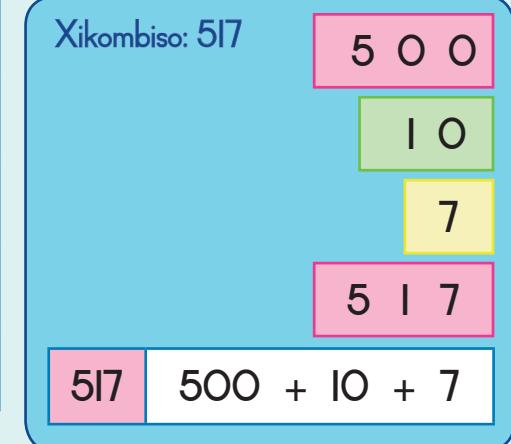


Tlhantlha nomboro ya wena.

- Aka nomboro yin'wana na yin'wana hi makhadi ya wena.
- Tsala nkoka wa dijiti yin'wana na yin'wana.

495	
508	
594	
549	
602	

Ku na tidijiti ta khume.  
0 1 2 3 4 5 6 7 8 9  
Hi ti veka kun'we ku vumba tinomboro.



Tsala mavito ya tinomboro.

221	
486	
369	
419	
491	



11    12    13    14    15    16    17    18    19    20

67

## Tinomboro ta

# 600 ku fika eka 700

Siku:

Kotara ya 3



Hlayela u tlhela u tsala.

- a. Tirhisa chati leyi landzelaka ku ku pfuna ku hlayela ku suka eka 600 ku fika eka 700.

Vulela tinomboro ehenhla loko u ri karhi u hlayela.

600



601			604					610
						618		
	622							
				636				
641							649	
						658		
		673						
					688		690	
692			695					700

b. Tsala tinomboro leti siyiweke eka giridi laha henhla.

c. Tsala 10 wa tinomboro leti landzelaka 600.

600; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

d. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-2.

622; 624; 626; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

e. Tsala tinomboro hinkwato hi patironi ya vu-2 ku suka eka 611 ku fika eka 633.

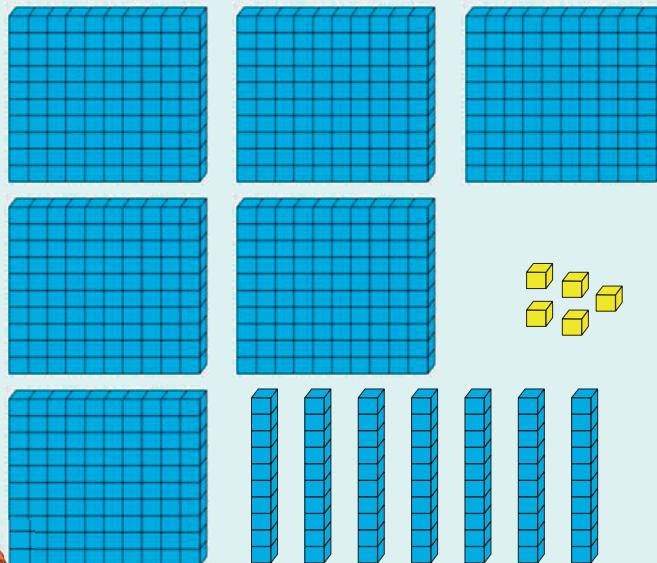
611; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; 633

f. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

645; 650; 655; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



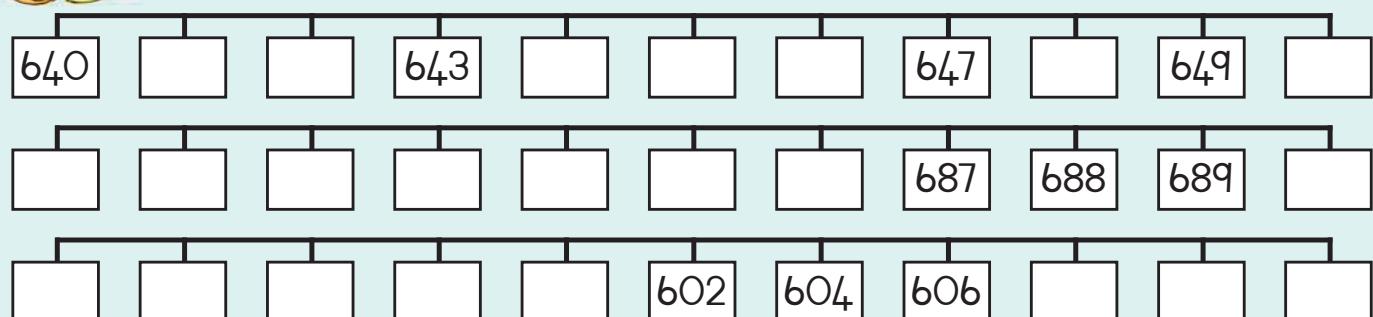
Xana u hlayele tibuloko tingani?



Xana u hlayele tibuloko hi ndlela yihi?



Hetisa mindzhati ya mintsengo.



Hetisa tafula.

Tsala ku suka eka nomboro leyitsongo ku ya eka leyikulu.

Tsala ku suka eka nomboro leyikulu ku ya eka leyitsongo.

672, 676, 674, 671, 675

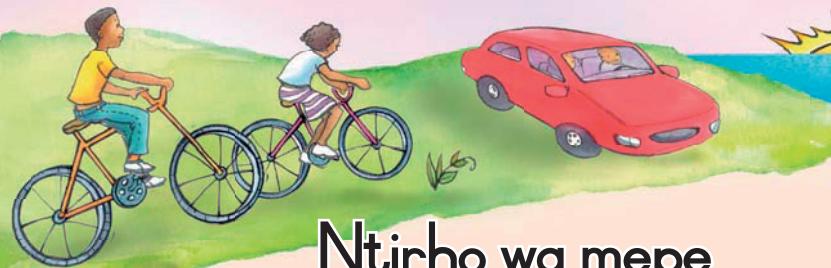
656, 605, 650, 615, 605



Tsala nomboro leyi landzelaka hi marito.

631

11 12 13 14 15 16 17 18 19 20

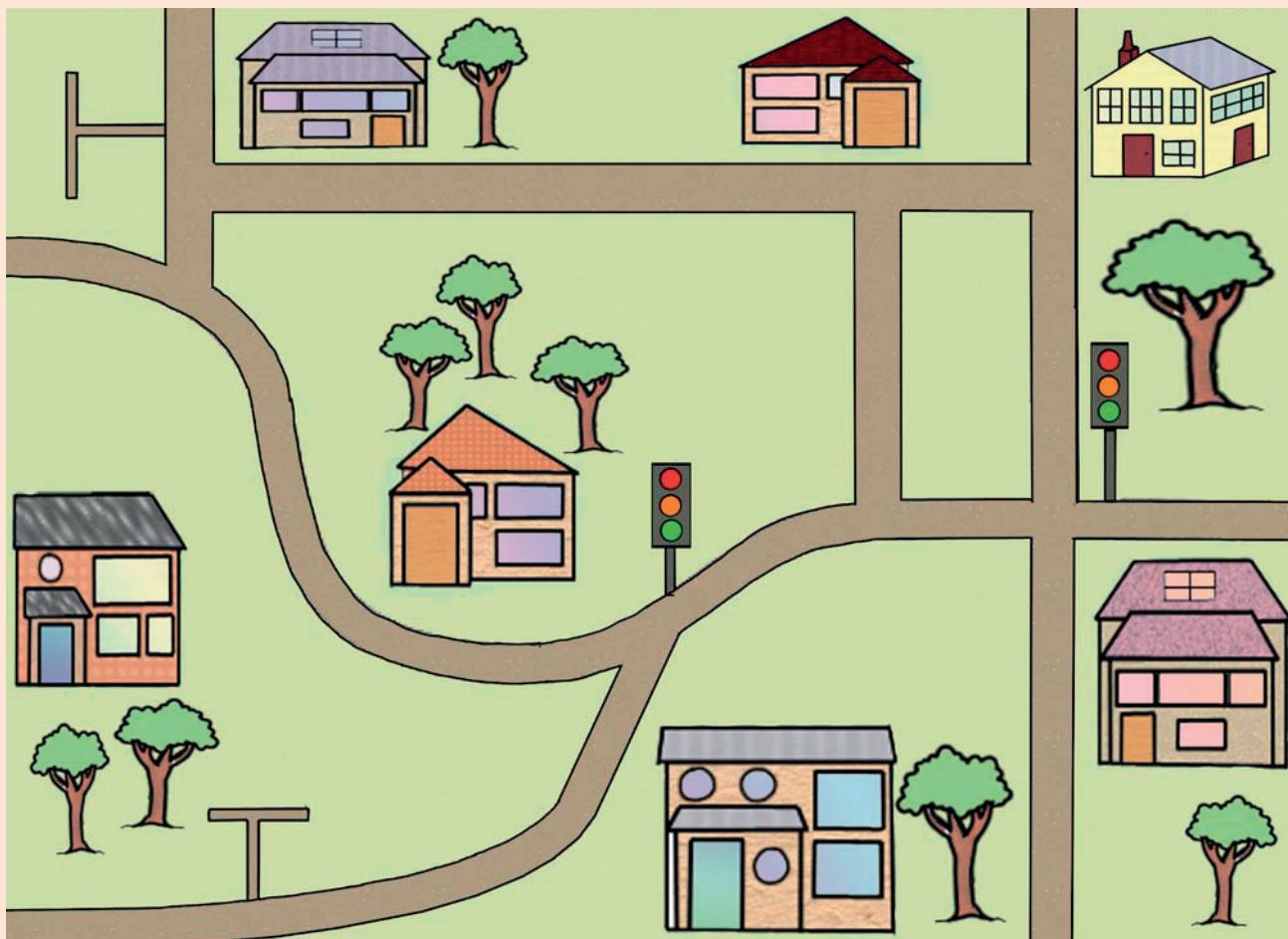


Siku:

## Ntirho wa mepe

**Languta xifaniso.**

- Xana i yini lexi?
- Hi wu tirhisela yini?
- Xana hi nga kuma yini eka mepe?



**Dirowa leswi landzelaka emepeni:**

Layiburari, xikolo, tliniki, xibedhlele, xitichi xa maphorisa, mavhengele.  
U nga engetela switarata swin'wana.



Tirhisa mepe eka phepha ra le ndzhaku ku nyika vanghana va wena swiletelo swa ndlela swo suka:

- a. etliniki ku ya exitichini xa maphorisa.


- b. exikolweni ku ya etliniki.


- c. exikolweni ku ya emavhengeleni.


- d. emavhengeleni ku ya elayiburari.


- e. elayiburari ku ya exikolweni.


- f. exibedhlele ku ya exikolweni.

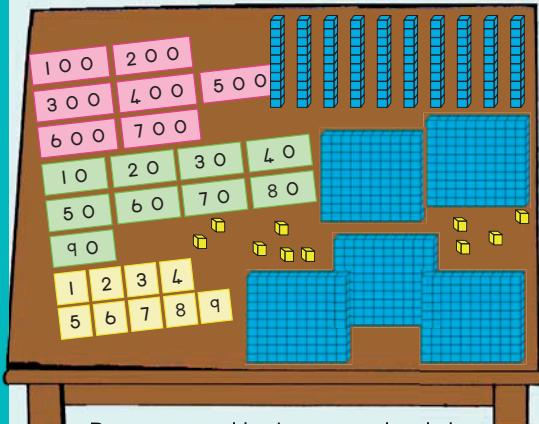



69

# Tinomboro tin'wana ta 600 ku fika eka 700

Siku:

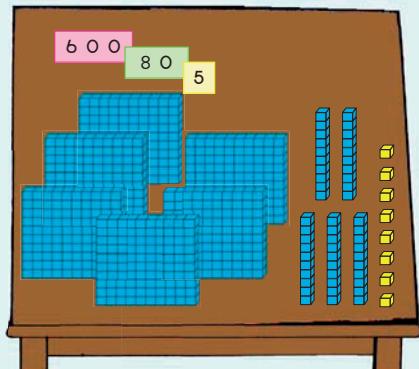
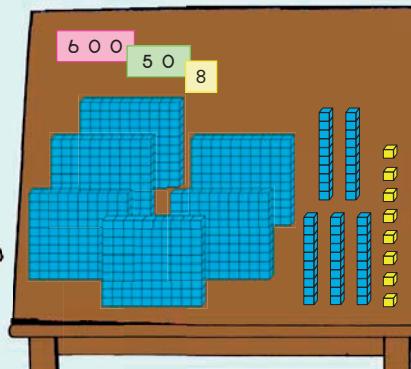
Kotara ya 3



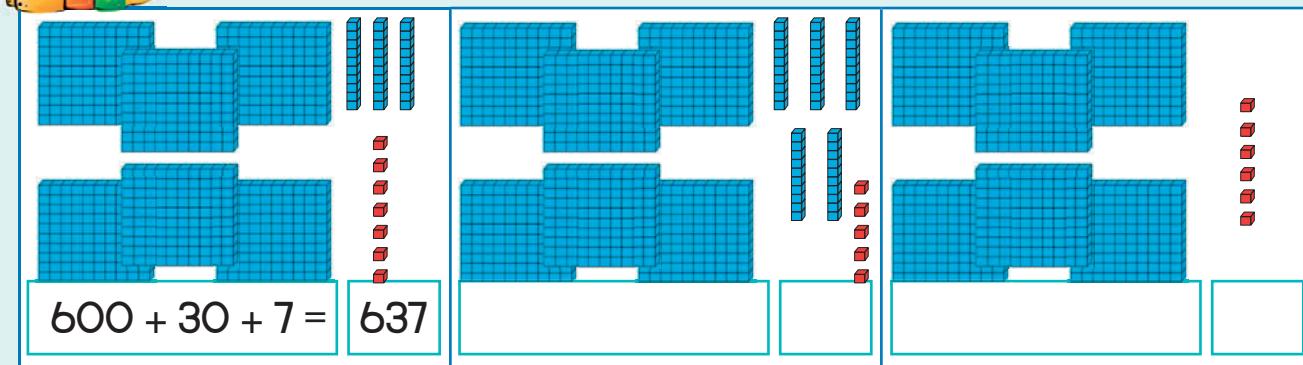
Peter u na makhadi ya xiyimela-nkoka  
lama landzelaka na tibuloko ta beyisi  
ya khume.

Mudyondzisi u kombela Peter  
ku kombisa 658 hi makhadi  
ya yena na tibuloko.

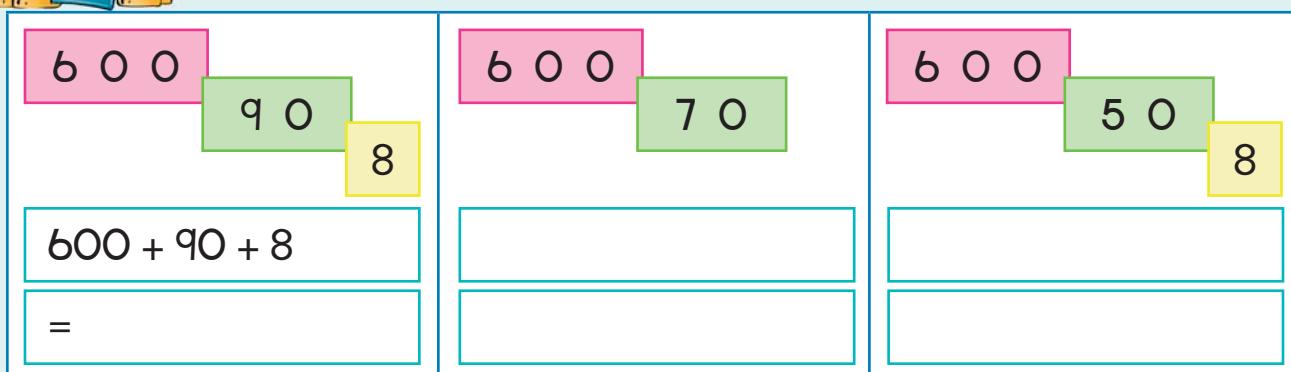
Leswi hi swona leswi Aakar  
a swi kombiseke. Hi xihi xihoxo  
lexi a xi endleke?



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





Hetisa ndzhati wa mintsengo.

670	671	672								680
-----	-----	-----	--	--	--	--	--	--	--	-----

Ndzi tsalele tinomboro hinkwato letitsongo eka 675. \_\_\_\_\_

Ndzi tsalele tinomboro hinkwato letikulu eka 675. \_\_\_\_\_



Siva hi < kumbe > =

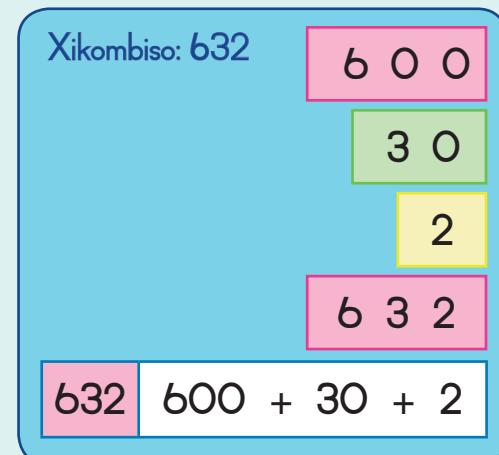
- a) 670 \_\_\_\_\_ 607      b) 688 \_\_\_\_\_ 699  
 c)  $600 + 50 + 5$  \_\_\_\_\_ 655



Tlhantlha nomboro ya wena.

- a. Aka nomboro yin'wana na yin'wana hi makhadi ya wena.  
 b. Tsala nkoka wa dijiti yin'wana na yin'wana.

686	
690	
699	
673	
665	



Tsala mavito ya tinomboro.

672	
693	
607	
697	
660	



70

## Tinomboro ta

650 ku fika eka 750

Siku:

Kotara ya 3



Hlayela u tlhela u tsala.

- a. Tirhisa chati leyi landzelaka ku ku pfuna ku hlayela ku suka eka 650 ku fika eka 750.

Vulela tinomboro ehenhla loko u ri karhi u hlayela.

650



						657			
661							669		
	683		685						
		703							
			714						
		723				727			
741		743					749	750	

- b. Tsala tinomboro leti siyiweke eka giridi laha henhlá.

- c. Tsala 10 wa tinomboro leti landzelaka 650.

650; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- d. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-2.

705; 707; 709; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- e. Tsala tinomboro hinkwato hi patironi ya vu-3 ku suka eka 719 ku fika eka 749.

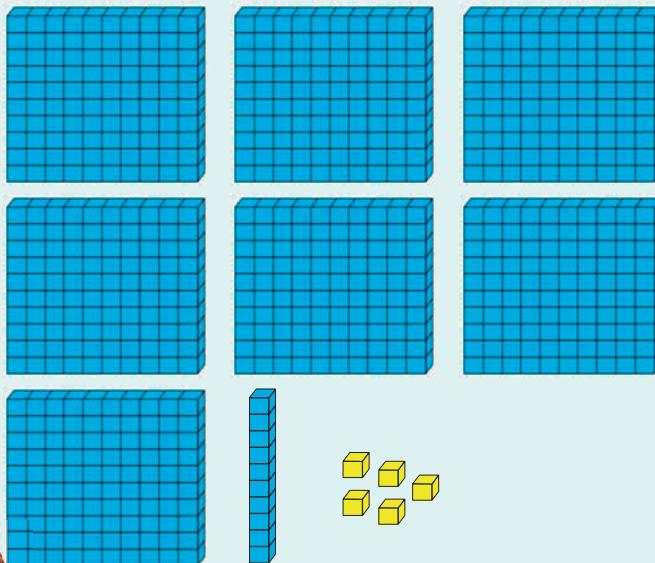
719; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; 749

- f. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

705; 710; 715; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



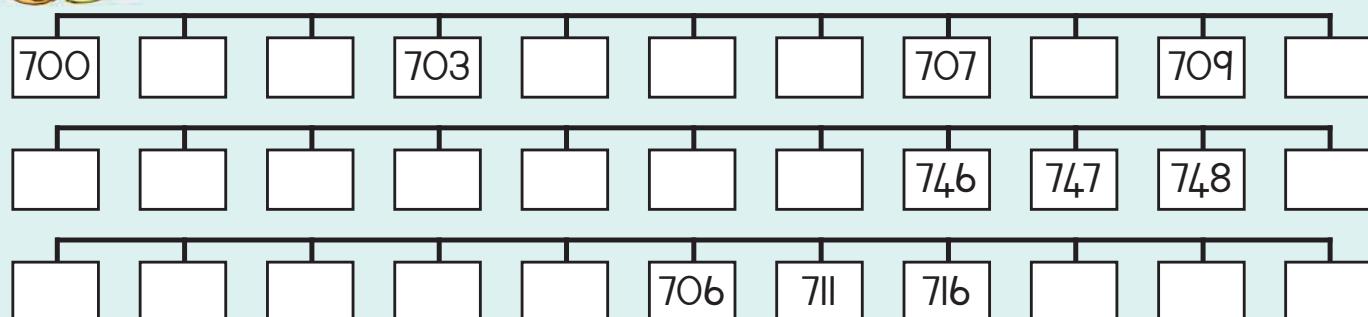
Xana u hlayele tibuloko tingani?



Xana u hlayele tibuloko hi ndlela yihi?



Hetisa mindzhati ya mintsengo.



Hetisa tafula.

Tsala ku suka eka nomboro leyitsongo ku ya eka leyikulu.

Tsala ku suka eka nomboro leyikulu ku ya eka leyitsongo.

729, 720, 728, 721, 725		
659, 705, 607, 701, 706		



Tsala nomboro leyi landzelaka hi marito.

706



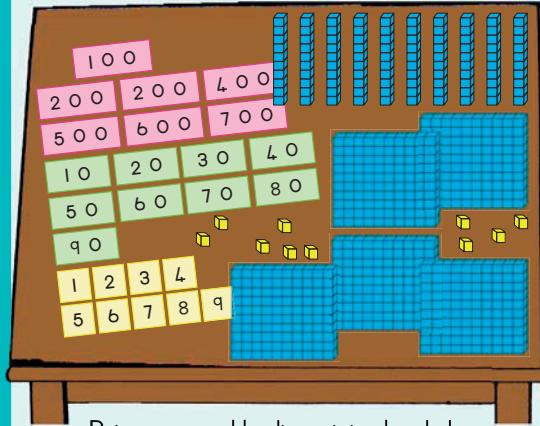
71

## Tinomboro ta

700 ku fika eka 750

Siku:

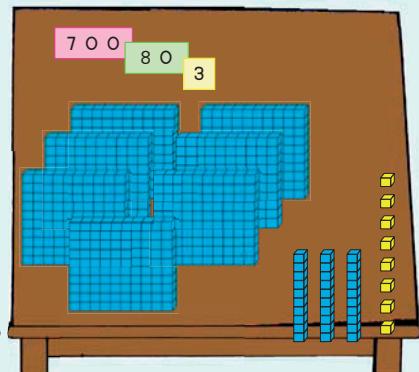
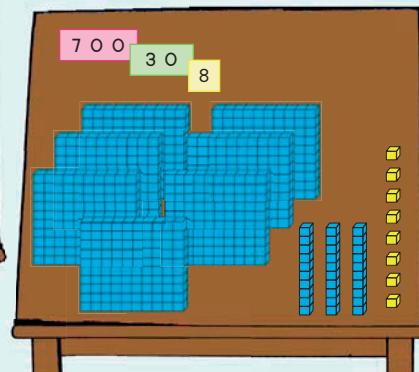
Kotara ya 3



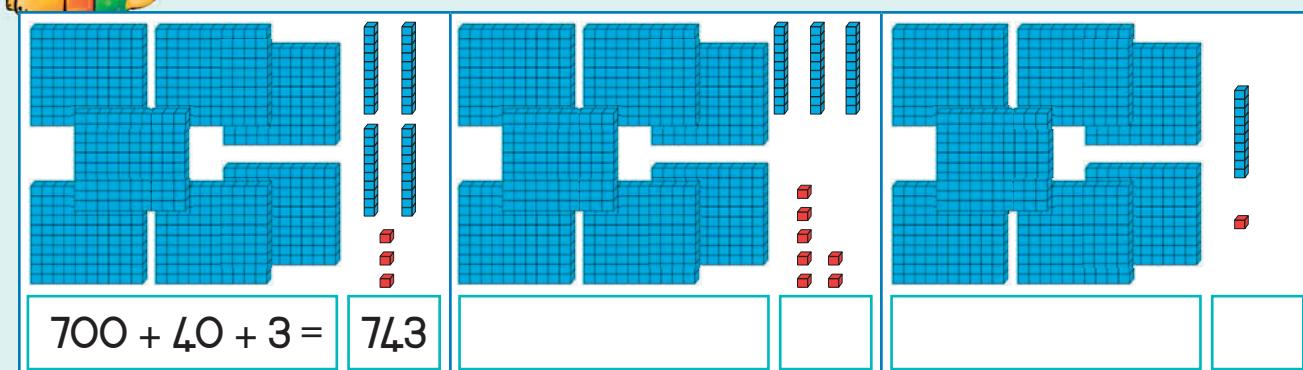
Peter u na makhadi ya xiyimela-nkoka  
lama landzelaka na tibuloko ta beyisi  
ya khume.

Mudyondzisi u kombela Peter  
ku kombisa 738 hi makhadi  
ya yena na tibuloko.

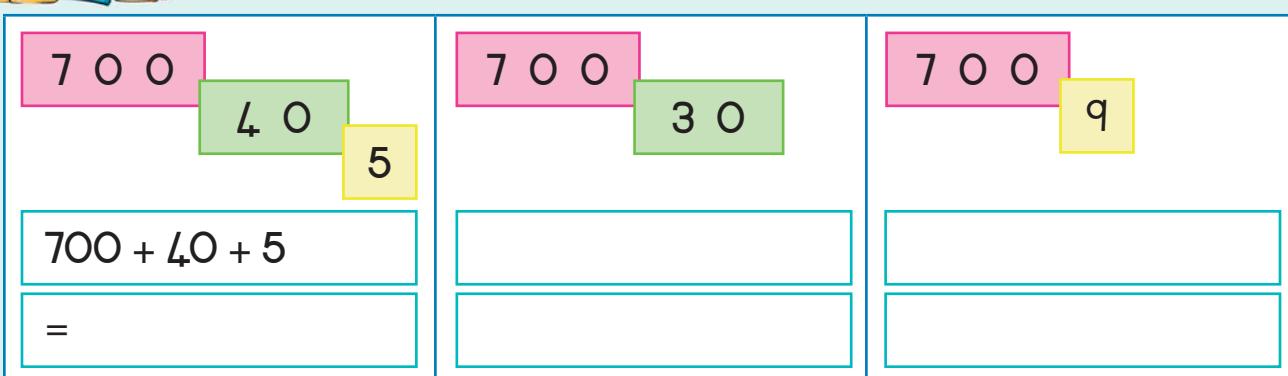
Leswi hi swona leswi Jabu  
a swi kombiseke.  
Hi xihi xihoxo lexi a xi endleke?



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





Hetisa ndzhati wa mintsengo.

699	700	701	<input type="text"/>	709						
-----	-----	-----	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	-----

Ndzi nyike tinomboro hinkwato letitsongo eka 704. \_\_\_\_\_

Ndzi nyike tinomboro hinkwato letikulu eka 704. \_\_\_\_\_



Tata <, > kumbe =

- a. 750        749      b. 732        723  
 c.  $700 + 40 + 9$         749

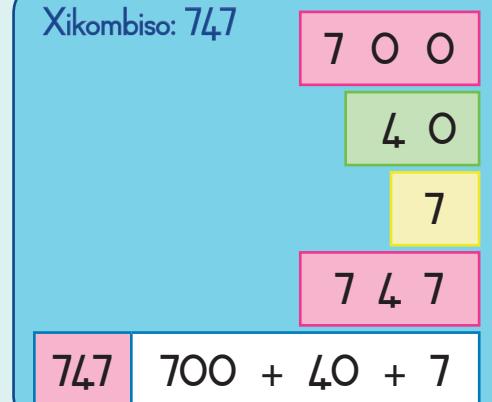


Tlhantlha nomboro ya wena.

- a. Aka nomboro yin'wana na yin'wana hi makhadi ya wena.  
 b. Tsala nkoka wa dijiti yin'wana na yin'wana. Sweswi endla leswi: Tlhantlha nomboro ya wena.

750	
728	
703	
730	
749	

Xikombiso: 747



Tsala mavito ya tinomboro.

714	
750	
742	
738	
704	



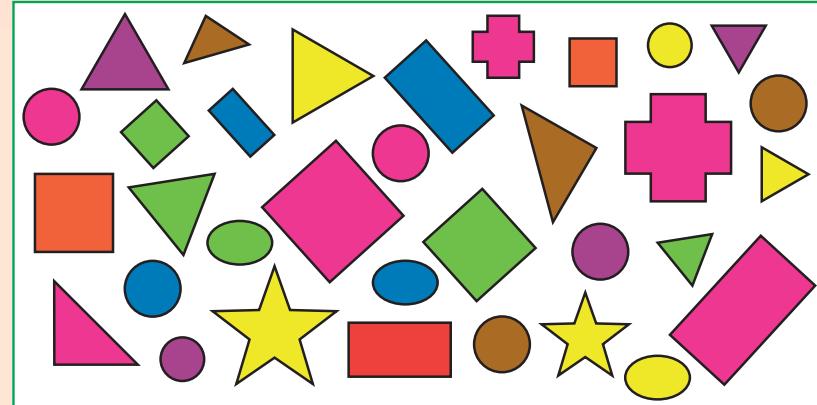
72



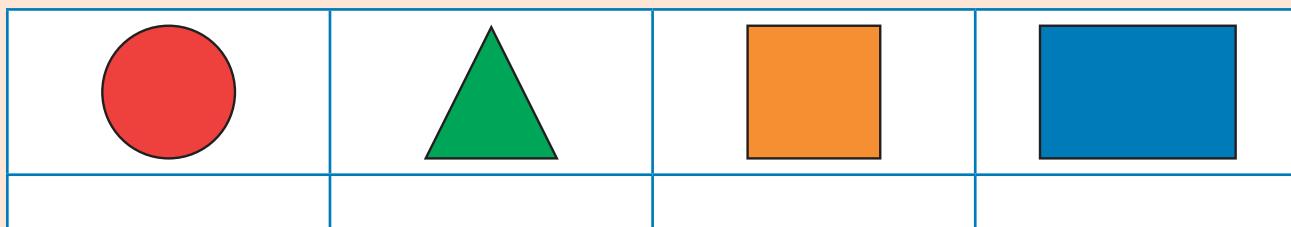
Siku:

Kotara ya 3

Vula loko xivumbeko  
xi ri na tlhelo ro  
thwixi kumbe ra  
xirhendzevutana.



Vula loko xivumbeko xi ri na makumu yo kongoma thwixi  
kumbe ya xirhendzevutana.



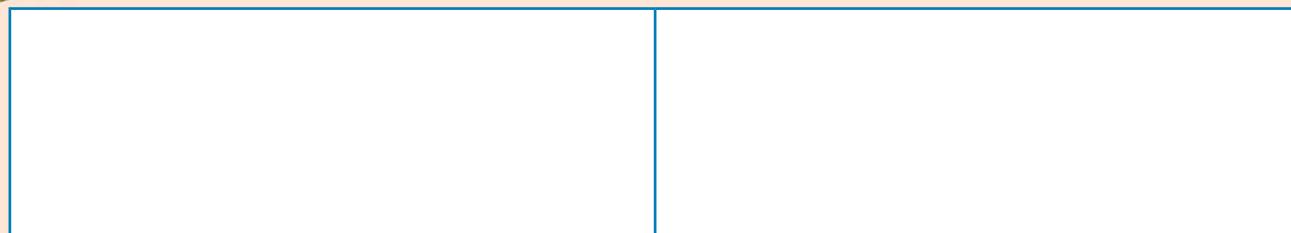
I swivumbeko swingani  
leswi u nga swi dirowaka  
hi makumu yo kongoma  
thwixi?



Lava swifaniso.

Lava swivumbeko leswi nga na makumu yo  
thwixama kutani u swi namarheta laha.

Lava swivumbeko leswi nga na makumu ya  
xirhendzevutana kutani u swi namarheta laha.





## Hetisa leswi landzelaka:

Dirowa	Dirowa xivumbeko hi swijimo swo hambana.
yinhlanharhu	
yinhlamune	
xikwere	



## Hetisa tafula:

Vula vito ra xivumbeko.	Dirowa xivumbeko lexi nga xitsongo.	Dirowa xivumbeko lexi nga xikulu.



Lava swikwere, tiyinhlanharhu, tiyinhlamune na swirhendzevutana swa tisayizi to hambana eka timagazini kumbe tinyuziphepha.

Swi namarhete laha.



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Siku:

## Ku hlanganisa no susa eka 800

Kotara ya 3



Xana ndzi nga xava yini hi R500?

Hi swihi swilo leswi ndzi  
nga swi xavaka hi mali  
yo ringanelo R500?

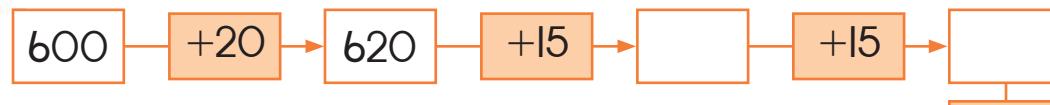


Hlanganisa ku suka eka 600.

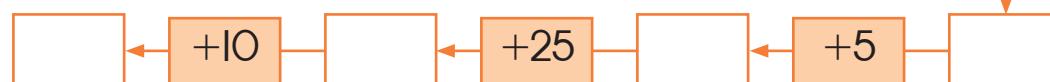


Tsala tinomboro leti siyeweke.

Sungula



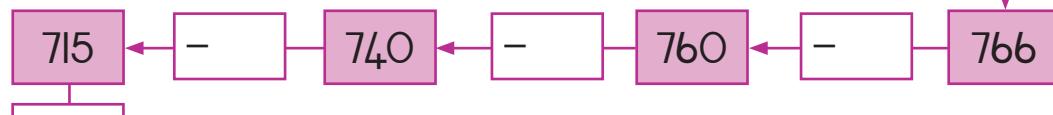
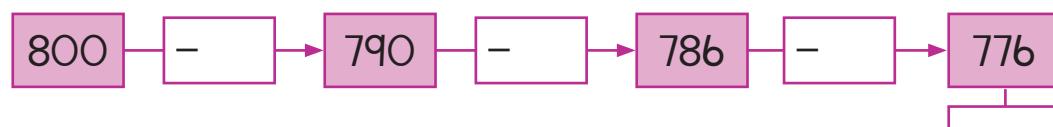
Heta



Hlayela hi xindzhaku ku suka eka 800.

Tsala ku "cinca" nkarhi wun'wana na wun'wana.

Sungula



Heta



Ololoxa leswi landzelaka:

$725 + 53 =$

$664 + 87 =$

$564 + 132 =$

$75 + 717 =$



Ololoxa leswi landzelaka:

James u hlengeletile 525 wa timabulu.

Loko Sipho a n'wi nyikile timabulu tin'wana ta 205,

James u ta va na nhlayo leyi ringanaka na ya Sipho.

- a. Xana hinkwavo va ta va na timabulu tingani?
- b. Xana Sipho a ri na timabulu tingani eku sunguleni?

- a.
- b.



Teacher:  
Sign:

Date:

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## Ku hlanganisa na

# ku susa kun'wana eka 800

Siku:

Kotara ya 3

### Mindyangu ya tinomboro

Hi nga kota ku endla mindyangu ya tinomboro. Ndyangu wun'wana na wun'wana wu na tinomboro timbirhi letikulu na yin'we leyitsongo.  
Teka 4, 8 na 12 tanihi xikombiso.

$$4 + 8 = 12 \quad 8 + 4 = 12$$

$$12 - 8 = 4 \quad 12 - 4 = 8$$



### Lava mindyangu.

Tsala 4 wa swivulwa swa tinomboro eka nt lava wun'wana na wun'wana wa tinomboro.

6 8 14				
17 17 34				
25 45 70				
65 335 400				
240 260 500				



### Kuma mikhakhuleto.

Eka nghingiriko lowu hi ta boxa patironi.

$360 - 50 =$ <input type="text"/>	$50 +$ <input type="text"/> $= 360$	<input type="text"/> $+ 50 = 360$
$570 - 480 =$ <input type="text"/>	$480 +$ <input type="text"/> $= 570$	<input type="text"/> $+ 480 = 570$
$430 - 31 =$ <input type="text"/>	$31 +$ <input type="text"/> $= 430$	<input type="text"/> $+ 31 = 430$
$676 - 70 =$ <input type="text"/>	$70 +$ <input type="text"/> $= 676$	<input type="text"/> $+ 70 = 676$
$799 - 701 =$ <input type="text"/>	$701 +$ <input type="text"/> $= 799$	<input type="text"/> $+ 701 = 799$



## Ku chayela mpfhuka wo leha.

Tatana Mkhize u famba hi movha ku ya endzela manana wa yena loyi a tshamaka endhawini ya vukule bya 352 km.

U yima a wisa endzhaku ka 166 km. Xana wa ha fanele ku famba mpfhuka wo tanahi kwih?

Kumi u endla leswi:	Pumla u tsala leswi:
$352 - 166$ $\begin{array}{ccccccc} & +4 & +30 & +100 & +52 \\ \hline 166 & \downarrow & \downarrow & \downarrow & \downarrow \\ 170 & 200 & 300 & 352 \end{array}$ $30 + 4 + 100 + 52$ $= 134 + 52 = 186 \text{ km}$	$352 - 166$ $\begin{array}{r} 300 + 50 + 2 \\ - 100 + 60 + 6 \\ \hline \end{array}$ $= 300 + 40 + 12$ $\begin{array}{r} 300 + 40 + 12 \\ - 100 + 60 + 6 \\ \hline \end{array}$ $= 200 + 140 + 12$ $\begin{array}{r} 200 + 140 + 12 \\ - 100 + 60 + 6 \\ \hline \end{array}$ $= 100 + 80 + 6$ $= 186 \text{ km}$
Mbali u endla leswi:	Peter u endla leswi:
$352 - 166$ $166 + 100 \rightarrow 266 + 34 \rightarrow 300 + 52 \rightarrow 352$ $100 + 34 + 52 = 134 + 52 = 186 \text{ km}$	$352 - 166$ $= 352 - 100 - 66$ $= 252 - 66$ $= 252 - 52 - 14$ $= 200 - 14$ $= 186 \text{ km}$
Veronica u endla leswi:	Lebo u ehleketa hi ku andzisa kambirhi na tihafu.
$352 - 166$ $352 - 152 = 200$ $200 - 14 = 200 - 10 - 4$ $= 190 - 4$ $= 186 \text{ km}$	Hafu ya 352 i 176 Kambe ndzi fanele ku teka ntsena 166, Kutani ndzi engetela 10. $176 + 10 = 186 \text{ km}$
Vulavula hi tindlela to hambana ta matirhele. Hi yihi leyi u yi tsakelaka swinene? Hikwalaho ka yini?	



Ololoxa leswi landzelaka eka xiphephana xin'wana:

Tirhisa rin'wana na rin'wana ra maendlele lama nga laha henhla.

$746 - 328$

$800 - 499$



11 12 13 14 15 16 17 18 19 20

75

# Ku hlanganisa no susa ku fika eka 800 nakambe

Siku:

Kotara ya 3



Aka mindyangu ya wena ya tinomboro.

Nghingiriko wo tilulamisa.

8 q 17

5 12 17



Xikombiso: Endla 17

$$\begin{aligned}5 + 12 &= 17 \\12 + 5 &= 17 \\17 - 12 &= 5 \\17 - 5 &= 12\end{aligned}$$

$$\begin{aligned}8 + 9 &= 17 \\9 + 8 &= 17 \\17 - 9 &= 8 \\17 - 8 &= 9\end{aligned}$$



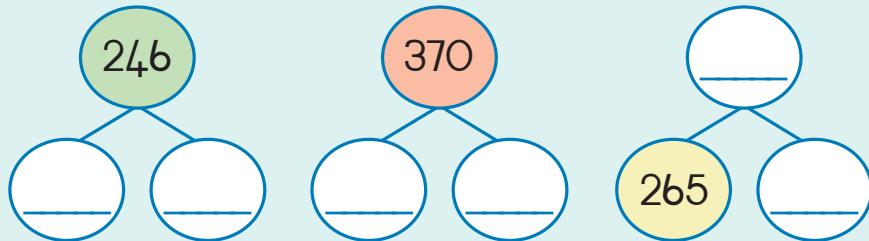
Eka nomboro yin'wana na yin'wana laha hansi, hlawula tin'wana ti2 ku endla ndyangu. Tsala swivulwa swa tinomboro swa mune (swimbirhi swa + na swimbirhi swa -) eka ndyangu wun'wana na wun'wana wa tinomboro.

Kambisia!  
Ringanisa!  
Lulamisa!

			+	+	-	-
16	7	9	$7 + 9 = 16$	$9 + 7 = 16$	$16 - 9 = 7$	$16 - 7 = 9$
20						
200						
75						
50						
500						
190						



Kuma ku andzisa  
kambirhi kumbe  
tihafu leti siyiweke.





## Ku hafula ko susa

Loko u tiva ti hafu ta wena na ku andzisa kambirhi, u nga swi tirhisa eka ku hlanganisa kumbe ku susa.

**Swikombiso:**

$$\begin{aligned} 34 - 18 &= 16 \\ 34 - 17 &= 17 \\ 17 - 1 &= 16 \end{aligned}$$

$$\begin{aligned} 190 - 97 &= 93 \\ 190 - 95 &= 95 \\ 95 - 2 &= 93 \end{aligned}$$

$$\begin{aligned} 65 + 69 &= 134 \\ 65 + 65 &= 130 \\ 130 + 4 &= 134 \end{aligned}$$

$$\begin{aligned} 242 + 249 &= 491 \\ 242 + 242 + 7 &= 484 + 7 \\ 484 + 7 &= 491 \end{aligned}$$

Sweswi ringeta leswi:

$$340 - 176$$

$$145 + 148$$

$$900 - 452$$



## Dyondza tindlela ta maendlele.

Un'wana na un'wana wa **256** wa vana u amukela nyiko ya **Khisimusi**. Hafu yi amukela swipopana kasi hafu yi amukela swimovhana. Xana i vangani lava amukelaka swimovhana?

Ndlela ya 1	Ndlela ya 2
$\begin{aligned} 256 &= 200 + 50 + 6 \\ \rightarrow \text{Hafu ya } 200 &+ 100 \\ \rightarrow \text{Hafu ya } 50 &+ 25 \\ \rightarrow \text{Hafu ya } 6 &+ 3 \\ 100 + 25 + 3 &= 128 \\ \rightarrow \text{Hafu ya } 256 &+ 128 \\ \text{Kutani } 128 &\text{ va amukela swimovhana.} \end{aligned}$	$\begin{aligned} \rightarrow \text{Hafu ya } 250 &= 125 \\ \rightarrow \text{Hafu ya } 6 &+ 3 \\ 125 + 3 &= 128 \\ \rightarrow \text{Hafu ya } 256 &+ 128, \\ \text{Kutani } 128 &\text{ va amukela swimovhana.} \end{aligned}$



## Ololoxa leswi landzelaka eka xiphephana xin'wana:

Tirhisa rin'wana na rin'wana ra maendlele lama nga laha henhla.

Un'wana na un'wana wa **728** wa vana u amukela nyiko erhesiturente.  
Hafu yi amukela tibuloko to aka.  
Xana i vangani lava amukeleke tibuloko to aka?

Un'wana na un'wana wa **624** wa vana u amukela mafini.  
Hafu yi amukela timafini ta chokoleti.  
Xana i vangani lava amukeleke timafini ta chokoleti?



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# Tipatironi ta tinomboro: vukhume ku fika eka 800

Siku:

Kotara ya 3



Xana u nga vula yini hi tinomboro leti nga  
eka tibuloko leti swahatiweke?

Hlayela vukhume ku suka eka 710 ku fika eka  
800. Ku landzela yini endzhaku ka 720 loko  
u hlayela hi vukhume?

Hlayela hi xindzhaku hi vukhume ku suka eka  
800 ku fika eka 710. Ku rhanga yini  
emahlweni ka 760 loko u hlayela hi xindzhaku?

701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800



Hetisa ndzandzelelano wa tinomboro.

720; 730; 740; _____ ; _____ ; _____	800; 790; 780; _____ ; _____ ; _____
--------------------------------------	--------------------------------------



Hlanganisa kumbe u susa khume.

- I. Hlanganisa na khume eka nomboro leyji nyikiweke.  
Hi ku endlele yo sungula.

a.  $767 + 10 = 777$

b. 762 _____	c. 783 _____	d. 756 _____	e. 714 _____	f. 799 _____
--------------	--------------	--------------	--------------	--------------

1      2      3      4      5      6      7      8      9      10



2. Susa khume eka nomboro leyi nyikiweke. Hi ku endlele yo sungula.

a.  $767 - 10 = 757$

b.  $762$  \_\_\_\_\_

c.  $783$  \_\_\_\_\_

d.  $756$  \_\_\_\_\_

e.  $714$  \_\_\_\_\_

f.  $799$  \_\_\_\_\_

3. Xana ku humelela yini loko u hlanganisa kumbe loko u susa khume eka tinomboro leti nga laha henhla?



**Languta swirhendzevutana swo tshwuka eka bodo ya tinomboro.**

a. Xana u lemuka yini hi swirhendzevutana leswi? \_\_\_\_\_

b. Kurisa ku landzelelana ka tinomboro leti landzelaka:

$704; 714; 724;$  \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

$715; 725; 735;$  \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

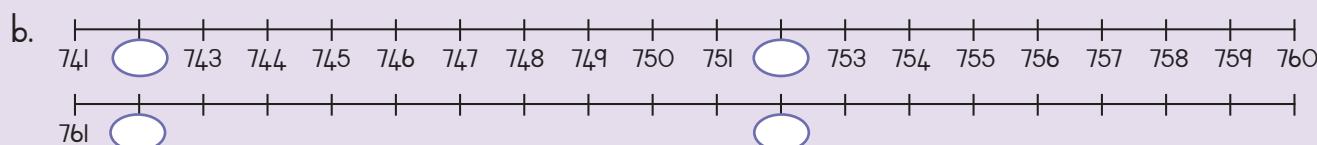
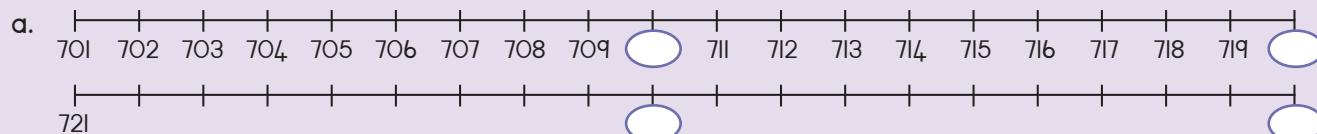
$799; 789; 779;$  \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

$782; 772; 762;$  \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

$737; 747; 757;$  \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



**Tatisa nomboro leyi faneleke eka xirhendzevutana xin'wana na xin'wana eka mindzhati leyi ya mintsengo.**



**Ndzi na nomboro ya 3 wa tidjiti.**

Dijiti yo sungula i 7, dijiti leyi landzelaka yi tlula 7 hi n'we kasi dijiti yo hetelela yi le hansi hi n'we eka nkombo.



Hlayela emahlweni hi vukhume ku suka eka nomboro leyi. Xana u kuma yini?



Teacher:

Sign:

Date:

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## Ku yisa eka khume ra le kusuhi

Siku:

Kotara ya 3

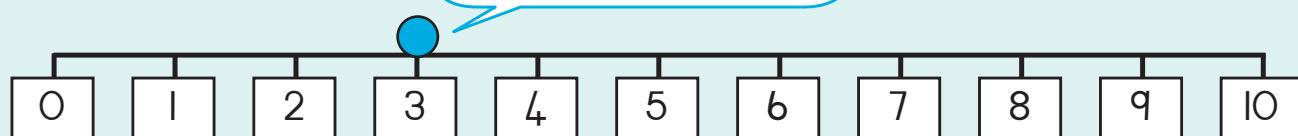
Tinomboro hinkwato ku suka eka 4  
ku ya endzhaku ti ta yisiwa eka 0.

Tinomboro hinkwato ku suka eka 5  
ku ya emahlweni ti ta yisiwa eka 10.

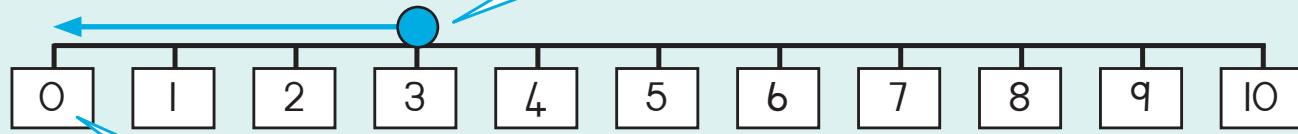


A hi vulavuleni.

Languta 3 eka ndzhati wa mintsengo.



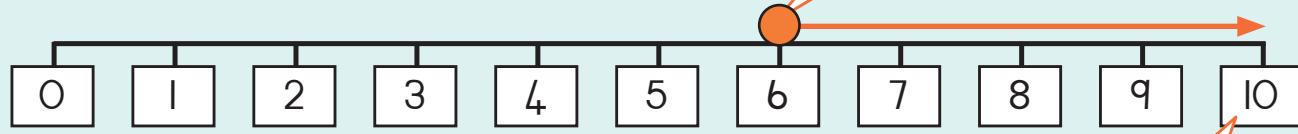
Xana 3 yi ta va yini loko yi yisiwa eka 10 ya le kusuhi??



3 loko yi yisiwile eka khume ra le kusuhi yi ta va ziro.

Endla leswi fanaka hi:

Xana 6 yi ta va yini loko yi yisiwa eka 10 ya le kusuhi?



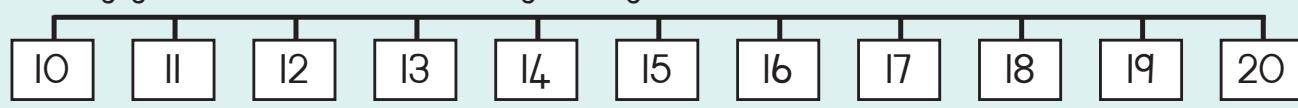
Nhlamulo yi ta va 10.



Yisa eka 10 ya le kusuhi.

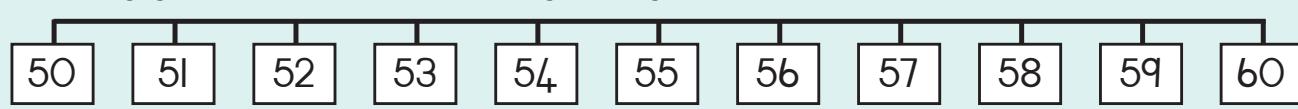
12 loko yi yisiwa eka khume ra le kusuhi yi ta va yini? \_\_\_\_\_

19 loko yi yisiwa eka khume ra le kusuhi yi ta va yini? \_\_\_\_\_



53 loko yi yisiwa eka khume ra le kusuhi yi ta va yini? \_\_\_\_\_

58 loko yi yisiwa eka khume ra le kusuhi yi ta va yini? \_\_\_\_\_





Yisa eka 10 ya le kusuhi, u tirhisa  
mindzhati ya mintsengo ku ku pfuna.

a. 46

**46**

**50**

Xana 46 yi ta va yini eka khume ra le kusuhi?



b. 63

Xana 63 yi ta va yini eka khume ra le kusuhi?



c. 73

Xana 73 yi ta va yini eka khume ra le kusuhi?



d. 99

Xana 99 yi ta va yini eka khume ra le kusuhi?



Tom u na R48,00.



Phakete ra makhadi leri a ri kumeke ri vitana R5,00.

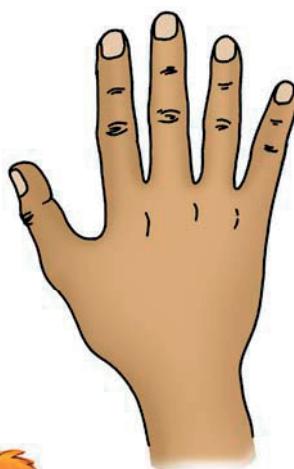
Xana u ta xava maphakete ya makhadi mangani hi R48,00? \_\_\_\_\_



## Ku andzisa: vuntlhanu ku fika eka 75

Kotara ya 3

I yini swi taka hi vuntlhanu?  
Tintiho ta voko rin'we.



Hetisa tafula.

Ku na tintiho tingani eka:

- 2 wa mavoko?
- 3 wa mavoko?
- 4 wa mavoko?
- 5 wa mavoko?
- 6 wa mavoko?
- 7 wa mavoko?
- 8 wa mavoko?
- 9 wa mavoko?
- 10 wa mavoko?

Yelanisa nhlayo na  
xivutiso lexi nga eximatsini:

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

Mintlawa	Andzisa	Ku avela	Avanyisa
2 wa mintlawa ya 5	$2 \times 5 = 10$	Ava 10 exikarhi ka 5	$10 \div 5 = 2$
7 wa mintlawa ya 5		Ava 35 exikarhi ka 5	
12 wa mintlawa ya 5		Ava 60 exikarhi ka 5	
15 wa mintlawa ya 5		Ava 75 exikarhi ka 5	



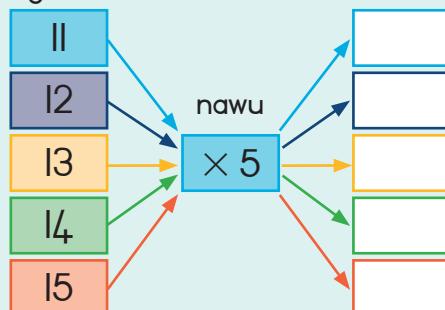
Hetisa tafula.

Ku avela	Avanyisa
Ava 12 exikarhi ka 5	$12 \div 5 = 2$ nsalo i 2
Ava 64 exikarhi ka 5	
Ava 39 exikarhi ka 5	
Ava 73 exikarhi ka 5	



## Hetisa tidayigiramu ta nkhuluko.

Lexi nghenisiwaka

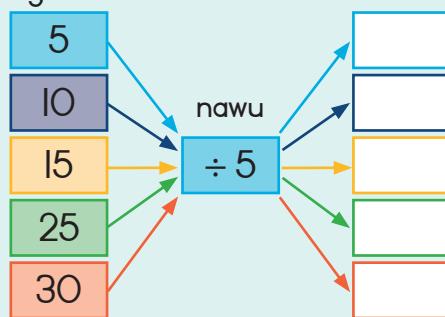


Lexi kumekaka

Lexi nghenisiwaka

Lexi kumekaka

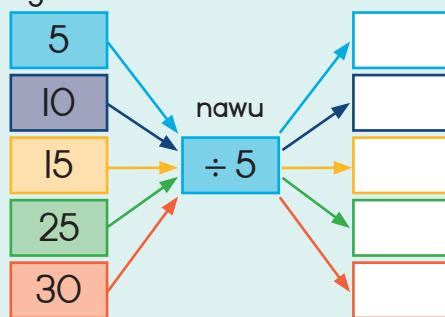
Lexi nghenisiwaka



Lexi kumekaka

Lexi nghenisiwaka

Lexi kumekaka



## Hetisa matafula lama nga laha hansi:

$\times$	1	2	3	4	5	6	7	8	9	10
5										
$\times$	11	12	13	14	15	16	17	18	19	20
5										

Xana u ti kume njhani tinhlamulo leti faneleke ku tsariwa eka tibuloko ta wasi?



## Ololoxa leswi landzelaka:

Manana u xavile maphekete ya swiwitsi leswi durhaka R70. U hakelele phakete hi R5.

Xana u xavile maphakete mangani ya swiwitsi?



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

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## Tipatironi ta tinomboro: vunlhanu ku fika eka 800

Siku:

Kotara ya 3



Xana u nga vula yini hi tinomboro leti nga  
eka tibuloko ta xilamula?

Hlayela hi vunlhanu ku suka eka 705 ku fika  
eka 800. Xana ku landzela yini endzhaku ka  
720 loko u hlayela hi vunlhanu?

Hlayela hi xindzhaku hi vunlhanu ku suka  
eka 800 ku fika eka 705.

Xana ku ta yini emahlweni ka 730 loko u  
hlayela hi xindzhaku?

701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800



Hetisa ndzandzelelano wa tinomboro.

725; 730; 735; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_      800; 795; 790; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Hlanganisa kumbe u susa ntłhanu.

a.  $760 + 5 = 765$

I. Hlanganisa na ntłhanu eka nomboro leyi nyikiweke. Hi ku endlele yo sungula.

b. 725 \_\_\_\_\_ c. 780 \_\_\_\_\_ d. 755 \_\_\_\_\_ e. 715 \_\_\_\_\_ f. 790 \_\_\_\_\_



2. Susa ntłhanu eka nomboro leyi nyikiweke. Hi ku endlele yo sungula.

a.  $765 - 5 = 760$

- |        |        |        |        |        |
|--------|--------|--------|--------|--------|
| b. 760 | c. 785 | d. 750 | e. 715 | f. 790 |
|--------|--------|--------|--------|--------|

3. Xana ku humelela yini loko u hlanganisa kumbe u susa ntłhanu eka tinomboro leti nga laha henhla?



Languta swirhendzevutana swo tshwuka eka bodo ya tinomboro.

- a. Xana u lemuka yini hi swirhendzevutana leswi? \_\_\_\_\_
- b. Kurisa ku landzelelana ka tinomboro leti landzelaka:
- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| 703; 708; 713; _____ ; _____ ; _____ | 722; 727; 732; _____ ; _____ ; _____ |
| 753; 758; 763; _____ ; _____ ; _____ | 714; 719; 724; _____ ; _____ ; _____ |
| 701; 706; 711; _____ ; _____ ; _____ |                                      |



Tatisa nomboro leyi faneleke eka xirhendzevutana xin'wana na xin'wana eka mindzhati leyi ya mintsengo.

- a.
- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 701 | 702 | 703 | 704 | ( ) | 706 | 707 | 708 | 709 | ( ) | 711 | 712 | 713 | 714 | ( ) | 716 | 717 | 718 | 719 | ( ) |
| 721 |     |     |     | ( ) |     |     |     |     | ( ) |     |     |     |     | ( ) |     |     |     |     | ( ) |
- 
- b.
- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 741 | ( ) | 743 | 744 | 745 | 746 | ( ) | 748 | 749 | 750 | ( ) | 751 | 753 | 754 | 755 | 756 | ( ) | 758 | 759 | 760 |
| 761 | ( ) |     |     |     |     | ( ) |     |     |     | ( ) |     |     |     |     |     | ( ) |     |     |     |



Ndzi na nomboro ya 3 wa tidijiti.

Dijiti yo sungula i 7, dijiti leyi landzelaka yi tlula 7 hi n'we kasi dijiti yo hetelela yi le hansi hi ntłhanu eka nkombo.

Sweswi hlayela emahlweni hi vuntłhanu ku suka eka nomboro leyi. Xana u kuma yini?



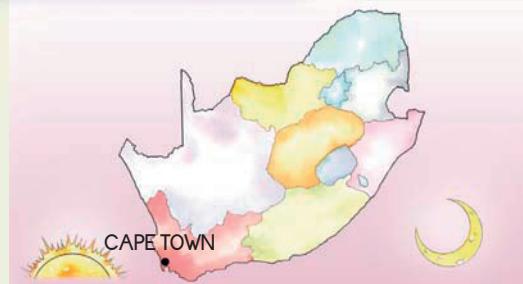
## Nhlekanhi na vusiku

Kotara ya 3



## Cape Town

Tafula leri nga laha hansi ri kombisa nkarhi wa ku xa na ku pela ka dyambu hi minkarhi yo hambana ya lembe eCape Town. Hlaya minkarhi etafuleni kutani u tatisa tafula hinkwaro u nga si hlamula swivutiso leswi nga laha hansi.



Cape Town	Ku xa ka dyambu	Ku pela ka dyambu	Ku leha ka nhlekanhi	Ku leha ka vusiku
Nyenankulu 23	6:53 nimixo	6:53 nimadyambu		
Khotavuxika 21	7:51 nimixo	5:44 nimadyambu		
Ndzati 19	6:41 nimixo	6:41 nimadyambu		
N'wendzamhala 22	5:32 nimixo	7:58 nimadyambu		

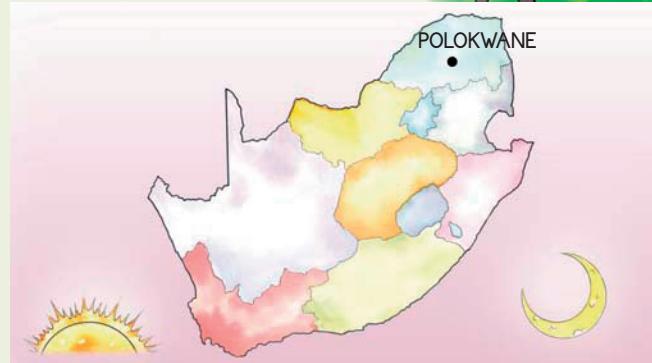
- I tin'hweti tihî leti nhlekanhi na vusiku swi ringanaka hi ku leha? \_\_\_\_\_
  - Hi yihî n'hweti leyî nga na masiku yo leha swinene? \_\_\_\_\_
  - Hi yihî n'hweti leyî nga na masiku yo koma swinene? \_\_\_\_\_
  - Kuma ku hambana ka tiawara na timinete exikarhi ka siku ro leha swinene na siku ro koma swinene.
  - Kuma ku leha ka nhlekanhi na vusiku ka siku rin'wana na rin'wana eka tafula leri nga laha henbla.
- \_\_\_\_\_
- \_\_\_\_\_



## ePolokwane

Tafula leri nga laha hansi ri kombisa nkarhi wa ku xa na ku pela ka dyambu hi minkarhi yo hambana ya lembe ePolokwane.

Hlaya minkarhi etafuleni kutani u tatisa tafula hinkwaro u nga si hlamlala swivutiso leswi nga laha hansi.

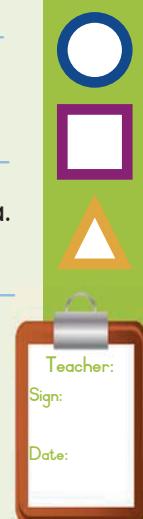


Polokwane	Ku xa ka dyambu	Ku pela ka dyambu	Ku leha ka nhlekanhi	Ku leha ka vusiku
Nyenankulu 25	6:08 nimixo	6:08 nimadyambu		
Khotavuxika 21	6:44 nimixo	5:24 nimadyambu		
Ndzati 17	5:57 nimixo	5:57 nimadyambu		
N'wendzamhala 22	5:13 nimixo	6:50 nimadyambu		

- I tin'hweti tih i leti nhlekanhi na vusiku swi ringanaka hi ku leha?  
\_\_\_\_\_
- Hi le ka tin'hweti tih i laha ku leha ka nhlekanhi ku ringanaka eCape Town na le Polokwane?  
\_\_\_\_\_
- Hi le ka tin'hweti tih i laha ku hambanaka?  
\_\_\_\_\_
- Kuma ku hambana ka tiawara na timinete exikarhi ka siku ro leha swinene na siku ro koma  
swinene.  
\_\_\_\_\_
- Kuma **ku leha ka nhlekanhi na vusiku** ka siku rin'wana na rin'wana eka tafula leri nga laha henhla.  
\_\_\_\_\_



Kombela un'wana leswaku a ku pfuna ku kuma minkarhi ya ku xa ka dyambu na ku pela ka dyambu endhawini ya ka n'wina. Tsala minkarhi ya vhiki rin'we. Xana masiku ya va yo leha kumbe ya va yo koma?



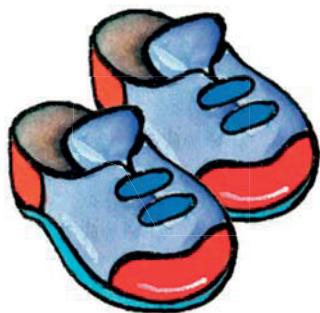
81

# Ku andzisa: vumbirhi ku fika eka 75

Siku:

Kotara ya 3

I yini swi fambaka hi vu-2? Phere yin'we ya tintanghu



Hetisa tafula.

Xana ku na tintanghu tingani?

I phere ya tintanghu?

- 2 wa tiphere ta tintanghu?
- 3 wa tiphere ta tintanghu?
- 4 wa tiphere ta tintanghu?
- 5 wa tiphere ta tintanghu?
- 6 wa tiphere ta tintanghu?
- 7 wa tiphere ta tintanghu?
- 8 wa tiphere ta tintanghu?
- 9 wa tiphere ta tintanghu?
- 10 wa tiphere ta tintanghu?

Yelanisa nhlayo na xivutiso lexi nga eximatsini:

$$1 \times 2 = 2$$

$$9 \times 2 = 18$$

$$7 \times 2 = 14$$

$$2 \times 2 = 4$$

$$4 \times 2 = 8$$

$$3 \times 2 = 6$$

$$5 \times 2 = 10$$

$$10 \times 2 = 20$$

$$6 \times 2 = 12$$

$$8 \times 2 = 16$$

Ku ntlawahata

Andzisa

Ku avela

Avanyisa

10 wa mintlawa ya 2

$$10 \times 2 = 20$$

Ava 20 exikarhi ka 2

$$20 \div 2 = 10$$

15 wa mintlawa ya 2

Ava 30 exikarhi ka 2

20 wa mintlawa ya 2

Ava 40 exikarhi ka 2

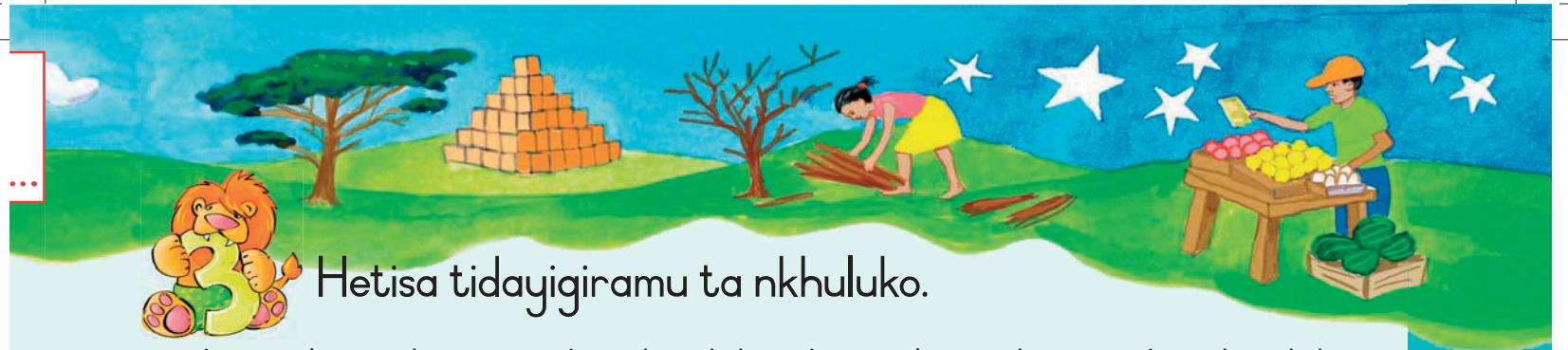
35 wa mintlawa ya 2

Ava 70 exikarhi ka 2



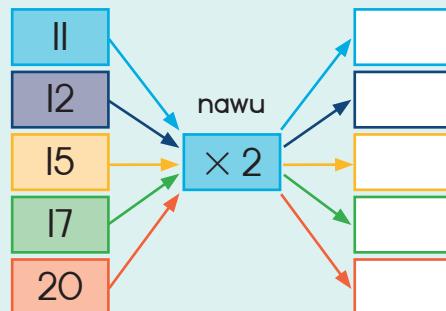
Hetisa tafula.

Ku avela	Avanyisa
Ava 21 exikarhi ka 2	$21 \div 2 = 10$ nsalo i 1
Ava 33 exikarhi ka 2	
Ava 67 exikarhi ka 2	
Ava 75 exikarhi ka 2	

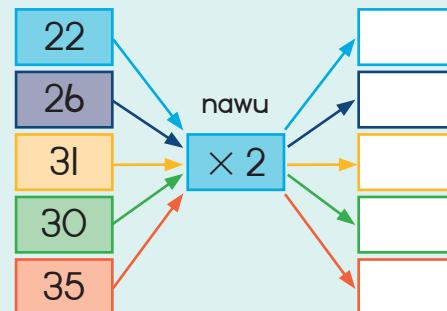


## Hetisa tidayigiramu ta nkhuluko.

Leswi nghenisiwaka

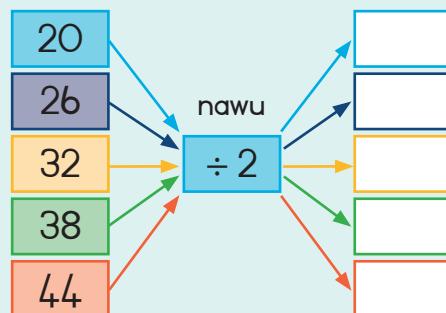


Leswi kumekaka

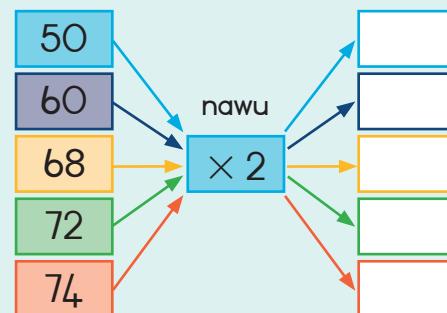


Leswi kumekaka

Leswi nghenisiwaka



Leswi nghenisiwaka



Leswi kumekaka



## Hetisa matafula lama nga laha hansi:

$\times$	1	2	3	4	5	6	7	8	9	10	II	I2	I3	I4	I5	I6	I7	I8	I9	I20
2																				

$\times$	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
2																	



## Ololoxa leswi landzelaka:

Ndzi xavile 36 wa tilolipopo hi R2.

Ndzi hakerile hi R50, R20 na khoyini ya R5.

Cinci ya mina a yi ri yini?



II    I2    I3    I4    I5    I6    I7    I8    I9    I20

82

## Tipatironi ta tinomboro: vumbirhi ku fika eka 800

Siku:

Kotara ya 3



Xana u nga vula yini hi tinomboro leti nga eka tibuloko leti swahatiweke ta xilamula?

Hlayela hi vu-2 ku suka eka 700 ku fika eka 800. Xana ku landzela yini endzhaku ka 700 loko u hlayela hi vumbirhi?

Hlayela hi xindzhaku hi vuntlhanu ku suka eka 800 ku fika eka 710. Xana 750 yi rhangela hi yini loko u hlayela hi xindzhaku?

701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800



Hetisa ndzandzelano wa tinomboro.

720; 722; 724; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

800; 798; 796; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Hlanganisa kumbe u susa mbirhi.

- I. Hlanganisa na mbirhi eka nomboro leyi nyikiweke.  
Hi ku endlele yo sungula.

a.  $764 + 2 = 766$

b. 762	c. 783	d. 756	e. 714	f. 799
--------	--------	--------	--------	--------



2. Susa mbirhi eka nomboro leyi nyikiweke. Hi ku endlele yo sungula.

$$a. 764 - 2 = 762$$

- |        |        |        |        |        |
|--------|--------|--------|--------|--------|
| b. 762 | c. 783 | d. 756 | e. 714 | f. 799 |
|--------|--------|--------|--------|--------|

3. Xana ku humelela yini loko u hlanganisa kumbe u susa mbirhi eka tinomboro leti nga laha henhla?



**Languta swirhendzevutana swa wasi eka bodo  
ya tinomboro.**

- a. Xana u lemuka yini hi swirhendzevutana leswi? \_\_\_\_\_  
b. Kurisa ku landzeliana ka tinomboro leti:

701; 703; 705; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

783; 785; 787; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

725; 727; 729; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

779; 781; 783; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

799; 797; 795; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



**Tatasa nomboro leyji faneleke eka xirhendzevutana  
xin'wana na xin'wana eka mindzhati leyji ya mintsengo.**

- a.
- b.



**Ndzi na nomboro ya 3 wa tidijiti.**

Dijiti yo sungula i 7, dijiti leyji landzelaka yi tlula nkombo hi mbirhi kasi dijiti yo hetelela yi le hansi ka nkombo hi mune.



Sweswi hlayela emahlweni hi vumbirhi ku suka eka nomboro leyji. Xana u kuma yini?



11 12 13 14 15 16 17 18 19 20

83

Siku:

## Ku andzisa:

vu-2 na vu-5 ku fika eka 75

Kotara ya 3



Xana u nga hlamula leswi landzelaka hi xihatla  
xo tanihi kwihi?

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



Languta leswi munghana wa  
mina a swi endleke.

$$4 \times 2 = 8$$

Bulani hi swona.

Munghana u kombisile  $4 \times 2$  hi ndlela leyji:

Ku hlayela hi ku tlulatlula	Mintlawa leyji ringanaka	Ku hlanganisa loku vuyeleriweke	Malongoloxelo	Leswi tivekaka
2, 4, 6, 8	● ● ● ● ● ● ● ●	$2 + 2 + 2 + 2$	xx xx xx xx	$2 \times 4 = 8$ $4 \times 2 = 8$ $8 \div 4 = 2$ $8 \div 2 = 4$

Sweswi endla leswi fanaka hi  $4 \times 5 = 20$ .

Ku hlayela hi ku tlulatlula	Mintlawa leyji ringanaka	Ku hlanganisa loku vuyeleriweke	Malongoloxelo	Leswi tivekaka



## Ololoxa leswi landzelaka:

$$24 \times 3$$

$$= (20 + 4) \times 3$$

$$= (20 \times 3) + (4 \times 3)$$

$$= 60 + 12$$

$$= 72$$

a.  $13 \times 3$

b.  $18 \times 3$

c.  $12 \times 5$

d.  $21 \times 3$

e.  $14 \times 3$

f.  $25 \times 3$

g.  $12 \times 3$

h.  $15 \times 5$



## Ololoxa leswi landzelaka:

Ndzi xavile 14 wa malekere hi R3 rin'we.

Munghana wa mina u xavile 12 wa malekere hi R5 rin'we.

Xana hi hakerile mali muni loko yi hlanganile hinkwayo?



# Ku andzisa: vunharhu ku fika eka 75

Siku:

Kotara ya 3

I yini swi fambaka  
hi vunharhu?  
Mavhilwa ya thirayisekele.



Hetisa tafula.

Ku na mavhilwa mangani eka:

- I thirayisekele?  
**2 wa tithirayisekele?**  
 3 wa tithirayisekele?  
 4 wa tithirayisekele?  
 5 wa tithirayisekele?  
 6 wa tithirayisekele?  
 7 wa tithirayisekele?  
 8 wa tithirayisekele?  
 9 wa tithirayisekele?  
 10 wa tithirayisekele?

Yelanisa nhlayo na  
xivutiso lexi nga eximatsini:

$$\begin{aligned}9 \times 3 &= 27 \\7 \times 3 &= 21 \\2 \times 3 &= 6 \\4 \times 3 &= 12 \\3 \times 3 &= 9 \\5 \times 3 &= 15 \\1 \times 3 &= 3 \\10 \times 3 &= 30 \\6 \times 3 &= 18 \\8 \times 3 &= 24\end{aligned}$$

Ku ntlawahata

Andzisa

Ku avela

Avanyisa

11 wa mintlawa ya 3

$11 \times 3 = 33$

Ava 33 exikarhi ka 3

$33 \div 3 = 11$

15 wa mintlawa ya 3

Ava 45 exikarhi ka 3

25 wa mintlawa ya 3

Ava 60 exikarhi ka 3

1 wa mintlawa ya 3

Ava 36 exikarhi ka 3



Hetisa tafula.

Ku avela

Avanyisa

Ava 37 exikarhi ka 3

$37 \div 3 = 12 \text{ nsalo i } 1$

Ava 74 exikarhi ka 3

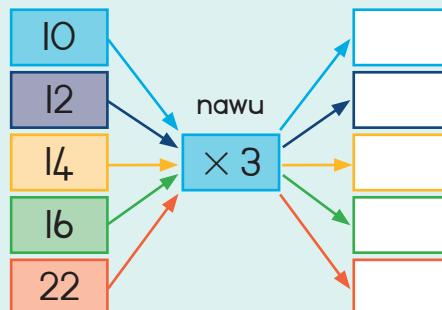
Ava 49 exikarhi ka 3

Ava 68 exikarhi ka 3



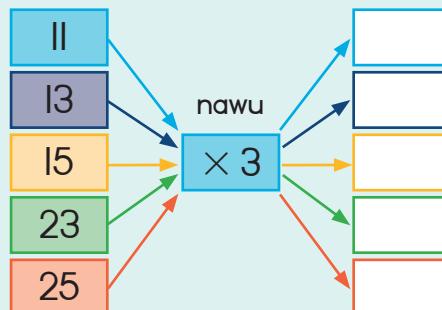
## Hetisa tidayigiramu ta nkhuluko.

Leswi nghanisiwaka



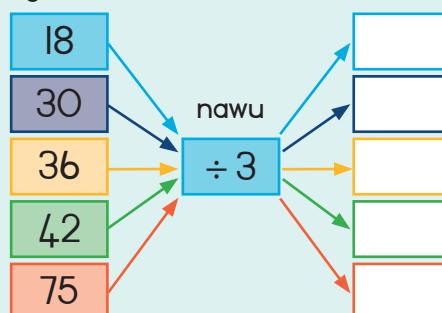
Leswi kumekaka

Leswi nghanisiwaka



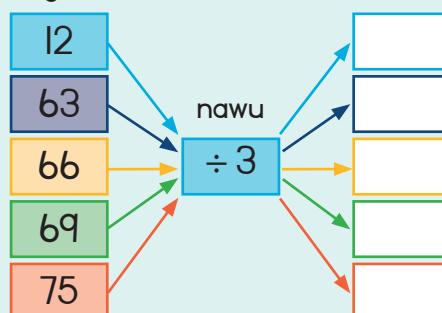
Leswi kumekaka

Leswi nghanisiwaka



Leswi kumekaka

Leswi nghanisiwaka



Leswi kumekaka



## Hetisa matafula lama nga laha hansi:

$\times$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4	3	6													

$\times$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
4															

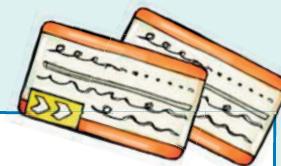
Xana u ti kume njhani tinhlamulo ta tibuloko leti khalariweke hi muhlovo wa wasi?



## Ololoxa leswi landzelaka:

Mali yo nghena a yi ri R3 eka n'wana un'wana na un'wana kasi i 23 wa vana lava ngheneke ephakeni.

Xana va hakerile mali muni hinkwayo ka yona?



85

Ku andzisa: vu-2,

vu-3 na vu-4 ku fika eka 75

Siku:

Kotara ya 3



Xana u nga hlamula leswi landzelaka hi xihatla xo  
tanihi kwihi?

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



Languta leswi munghana wa mina a swi endleke.

Bulani hi swona.

$$5 \times 2 = 10$$

Ndzi rhange hi ku kombisa  $5 \times 2$  hi ndlela leyi:

Ku hlayela hi ku tlulatlula	Mintlawa leyji ringanaka	Ku hlanganisa loku vuyeleriweke	Malongoloxelo	Leswi tivekaka
2, 4, - - -	• • - - -	2 + - - -	wa tinxaxa ta 2 xx	$2 \times - = -$ $4 \times - = -$ $- \div - = -$ $- \div - = -$

Endla leswi fanaka hi  $8 \times 3 = 24$ .

Ku hlayela hi ku tlulatlula	Mintlawa leyji ringanaka	Ku hlanganisa loku vuyeleriweke	Malongoloxelo	Leswi tivekaka

$6 \times 4 = 24$

Ku hlayela hi ku tlulatlula	Mintlawa leyji ringanaka	Ku hlanganisa loku vuyeleriweke	Malongoloxelo	Leswi tivekaka



Avanyisa u tlhela u kambela nhlamulo ya wena.

$$63 \div 3$$

$$= 21$$

$\times = 20 + 1$

$$21 \times 3$$

$$\begin{aligned} &= (20 + 1) \times 3 \\ &= (20 \times 3) + (1 \times 3) \\ &= 60 + 3 \\ &= 63 \end{aligned}$$

a.  $48 \div 5$

b.  $64 \div 5$



Ololoxa leswi landzelaka:

Mina na vanghana va mina hi na R63.

Hi lava ku yi ava hi ku ringana exikarhi ka vunharhu bya hina.

Un'wana na un'wana wa hina u ta kuma mali muni?



## Tipatironi ta tinomboro: vunharhu ku fika eka 800

Siku:

Kotara ya 3



Languta tinomboro leti nga eka tibuloko ta xilamula. Xana u vona patironi yihi?

Hlayela hi vunharhu ku suka eka 703  
ku fika eka 799.

Ku landzela yini endzhaku ka 745 loko  
u hlayela hi vunharhu?

Hlayela hi xindzhaku hi vunlhhanu ku suka  
eka 799 ku fika eka 703.

Ku rhanga yini emahlweni ka 766 loko u  
hlayela hi xindzhaku?

701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800



Hetisa ndzandzelelano wa tinomboro.

703; 706; 709; _____ ; _____ ; _____	799; 796; 793; _____ ; _____ ; _____
--------------------------------------	--------------------------------------



Hlanganisa kumbe u susa nharhu.

I. Engetela nharhu eka nomboro leyi nyikiweke.

Hi ku endlele yo sungula.

a.  $766 + 3 = 769$

b. 766 _____	c. 783 _____	d. 756 _____	e. 713 _____	f. 790 _____
--------------	--------------	--------------	--------------	--------------



2. Susa nharhu eka nomboro leyi nyikiweke. Hi ku endlele yo sungula.

$$a. 766 - 3 = 763$$

b. 763 \_\_\_\_\_

c. 789 \_\_\_\_\_

d. 756 \_\_\_\_\_

e. 713 \_\_\_\_\_

f. 799 \_\_\_\_\_

3. Xana ku humelela yini loko u hlanganisa kumbe u susa nharhu eka tinomboro leti nga laha henhla?



**Languta swirhendzevutana swa wasi eka bodo  
ya tinomboro.**

a. Xana u lemuka yini hi swirhendzevutana leswi? \_\_\_\_\_

b. Kurisa ku landzeliana ka tinomboro leti:

704; 707; 710; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

779; 776; 773; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

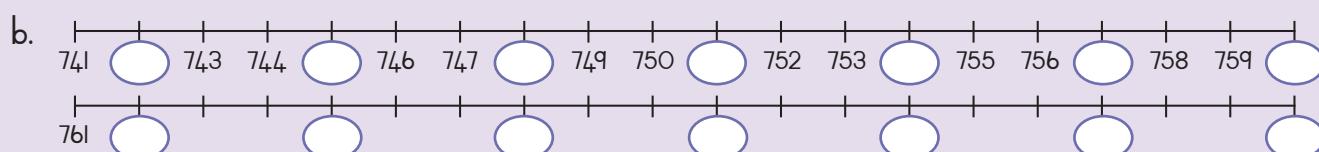
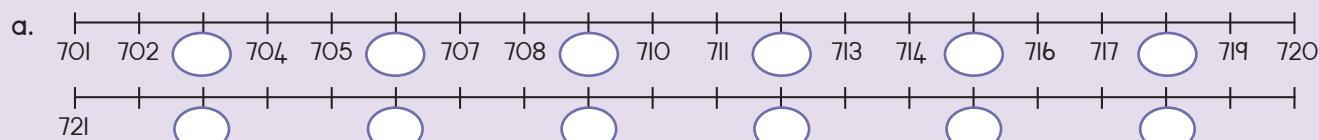
773; 776; 779; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

782; 785; 788; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

779; 782; 785; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



**Tatisa nomboro leyi faneleke eka xirhendzevutana  
xin'wana na xin'wana eka mindzhati leyi ya mintsengo.**



**Ndzi na nomboro ya 3 wa tidijiti:**

Dijiti yo sungula i 7, leyi landzelaka yi tlula nkombo hi mbirhi kasi yo hetelela yi le hansi ka nkombo hi nkombo.



Hlayela emahlweni hi vunharhu ku suka eka nomboro leyi. Xana u kuma nomboro yihi?



## Ku andzisa:

vumune ku fika eka 75

Siku:

Kotara ya 3

I yini xi taka hi vumune?  
Mavhilwa ya movha.



Xana ku na mavhilwa  
mangani eka

1 movha?

2 wa mimovha?

3 wa mimovha?

4 wa mimovha?

5 wa mimovha?

6 wa mimovha?

7 wa mimovha?

8 wa mimovha?

9 wa mimovha?

10 wa mimovha?

Yelanisa nhlayo na  
xivutiso lexi nga eximatsini:

$9 \times 4 = 36$

$7 \times 4 = 28$

$2 \times 4 = 8$

$4 \times 4 = 16$

$3 \times 4 = 12$

$5 \times 4 = 20$

$1 \times 4 = 4$

$10 \times 4 = 40$

$6 \times 4 = 24$

$8 \times 4 = 32$



Hetisa tafula.

Ku ntlawahata	Andzisa	Ku avela	Avanyisa
12 wa mintlawa ya 4	$12 \times 4 = 48$	Ava 48 exikarhi ka 4	$48 \div 4 = 12$
16 wa mintlawa ya 4		Ava 64 exikarhi ka 4	
18 wa mintlawa ya 4		Ava 72 exikarhi ka 4	
15 wa mintlawa ya 4		Ava 60 exikarhi ka 4	



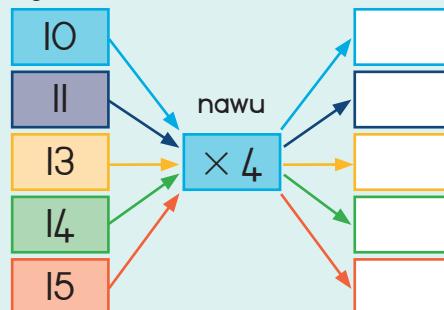
Hetisa tafula.

Ku avela	Avanyisa
Ava 35 exikarhi ka 4	$35 \div 4 = 8$ nsalo i 3
Ava 55 exikarhi ka 4	
Ava 70 exikarhi ka 4	
Ava 75 exikarhi ka 4	



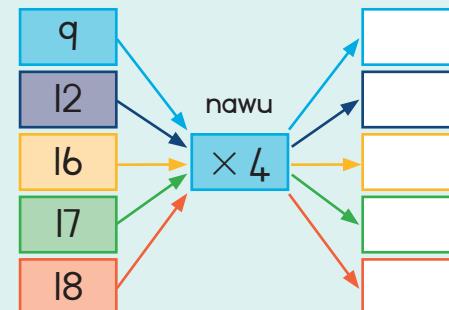
## Hetisa tidayigiramu ta nkhuluko.

Leswi nghenisiwaka



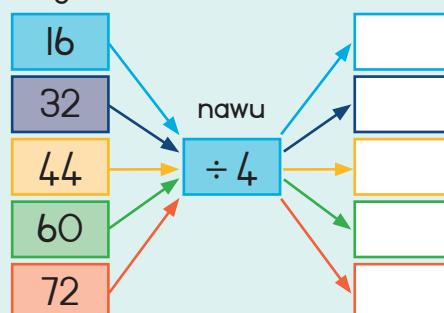
Leswi kumekaka

Leswi nghenisiwaka



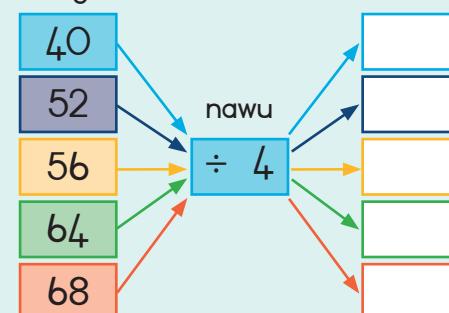
Leswi kumekaka

Leswi nghenisiwaka



Leswi kumekaka

Leswi nghenisiwaka



Leswi kumekaka



## Hetisa matafula lama nga laha hansi:

$\times$	1	2	3	4	5	6	7	8	q	10	11	12	13	14	15
4															

$\times$	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
4															

Xana u ti kume njhani tinhlamulo ta tibuloko leti khalariveke hi muhlovo wa wasi?



## Ololoxa leswi landzelaka:

Ndzi na R75.

I swingani swiphaketana swa tinyiko ta phati leswi ndzi nga swi xavaka hi R4?



11 12 13 14 15 16 17 18 19 20

## Tipatironi ta tinomboro: vumune ku fika eka 800

Siku:

Kotara ya 3



Languta tinomboro leti nga eka tibuloko ta xilamula. Xana u vona patironi yihi?

Hlayela hi vumune ku suka eka 704 ku fika eka 800. Ku landzela yini endzhaku ka 736 loko u hlayela hi vumune?

Hlayela hi xindzhaku hi vumune ku suka eka 800 ku fika eka 704.

Xana ku rhanga yini emahlweni ka 776 loko u hlayela hi xindzhaku?

701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800



Hetisa ndzandzelelano wa tinomboro.

704; 708; 712; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

724; 728; 732; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Hlanganisa kumbe u susa mune

- I. Hlanganisa na mune eka nomboro leyji nyikiweke.  
Hi ku endlele yo sungula.

a.  $764 + 4 = 768$

b.  $764$  \_\_\_\_\_

c.  $788$  \_\_\_\_\_

d.  $754$  \_\_\_\_\_

e.  $718$  \_\_\_\_\_

f.  $794$  \_\_\_\_\_



2. Susa mune eka nomboro leyti nyikiweke. Hi ku endalele yo sungula.

$$a. 764 - 4 = 760$$

- b. 768      c. 784      d. 752      e. 714      f. 798

3. Xana ku humelela yini loko u hlanganisa kumbe u susa mune eka tinomboro leti nga laha henbla?

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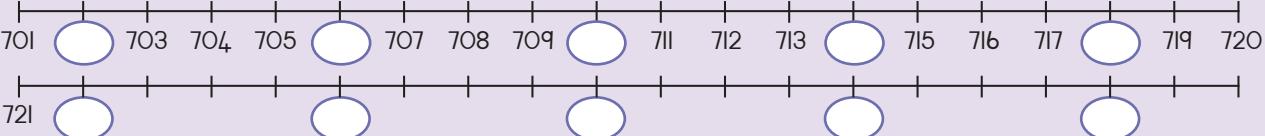
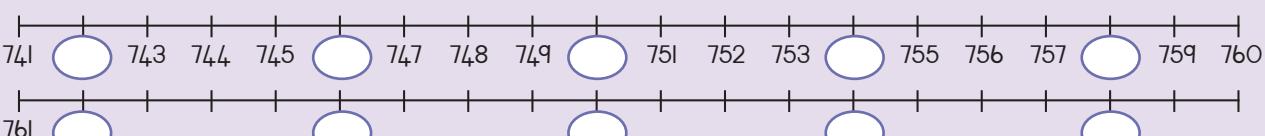
**Languta swirhendzevutana swa wasi eka bodo ya tinomboro.**

a. Xana u lemuka yini hi swirhendzevutana leswi? \_\_\_\_\_

- b. Kurisa ku landzeliana ka tinomboro  
leti landzelaka:  
703; 707; 711; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_  
799; 795; 791; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_  
773; 777; 781; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



**Tatisa nomboro leyti faneleke eka xirhendzevutana  
xin'wana na xin'wana eka mindzhati leyti ya mintsengo.**

- a. 
- b. 



**Ndzi na nomboro ya 3 wa tidijiti.**

Dijiti yo sungula i 7, dijiti leyti landzelaka yi tlula nkombo hi n'we, kasi dijiti yo hetelela yi le hansi ka nkombo hi nharhu.

Sweswi hlayela emahlweni hi vumune ku suka eka nomboro leyti.

Xana u kuma yini?

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Ku andzisa no avanyisa:

vu-2, vu-3, vu-4 na vu-5 ku fika eka 75

Siku:

Kotara ya 3



Xana u nga hlamula leswi landzelaka hi xihatla  
xo tanihi kwihi?

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



Khalara tibuloko laha nhlayo yi ku nyikaka nsalo.

$12 \div 2 = 6$	$13 \div 3 = 4$ nsalo i 1	$15 \div 5 =$ _____	$18 \div 5 =$ _____
$20 \div 4 =$ _____	$23 \div 4 =$ _____	$16 \div 3 =$ _____	$18 \div 3 =$ _____
$25 \div 2 =$ _____	$24 \div 2 =$ _____	$30 \div 2 =$ _____	$29 \div 2 =$ _____
$19 \div 3 =$ _____	$17 \div 3 =$ _____	$31 \div 5 =$ _____	$30 \div 5 =$ _____
$55 \div 5 =$ _____	$52 \div 5 =$ _____	$57 \div 3 =$ _____	$60 \div 3 =$ _____



Xana u swi tiva njhani leswaku nomboro yi nga  
avanyisiwa hi:

- 3? Loko u hlanganisa tidjiti, xik. 72 yi na tidjiti ta,  $7 + 2 = 9$  naswona u nga avanyisa nomboro leyintshwa hi 3, (xik. 9 ya avanyiseka hi 3).
- 2? \_\_\_\_\_
- 5? \_\_\_\_\_



Avanyisa u tlhela u kambela nhlamulo ya wena.

$$65 \div 3$$

$$= (60 + 5) \div 3$$

$$= (60 \div 3) + (5 \div 3)$$

$$= 20 + 1 \text{ nsalo i 2}$$

$$= 21 \text{ nsalo i 2}$$

$$21 \times 3 + 2$$

$$= (20 + 1) \times 3 + 2$$

$$= (20 \times 3) + (1 \times 3) + 2$$

$$= 60 + 3 + 2$$

$$= 65$$

a.  $49 \div 5$

b.  $65 \div 5$



Ololoxa leswi landzelaka:

U fanele ku famba u ya endla ndzavisiso.

Xana u swi tiva njhani leswaku nomboro ya avanyiseka hi 4?



Teacher:  
Sign:

Date:

11 12 13 14 15 16 17 18 19 20  
 bmmmmmmmmmmmmmmmmmmmmmmmmmmmm

90



Siku:

## Swihlawulekisi

### swa swilo swa 3 wa matlhelō

Kotara ya 3



Languta swifaniso.

Vulavula hi vuandlalo bya minchumu leyi u tirhisa marito yo fana na xiphepherhele na xirhendzevutana.



Languta swifaniso kutani u hetisa swivulwa u tlhela u hlamula swivutiso.



a. Bolo ya

\_\_\_\_\_.



b. Hikwalaho ka yini  
bolo yi nga rheti?

\_\_\_\_\_.



c. Silindara ya

\_\_\_\_\_.



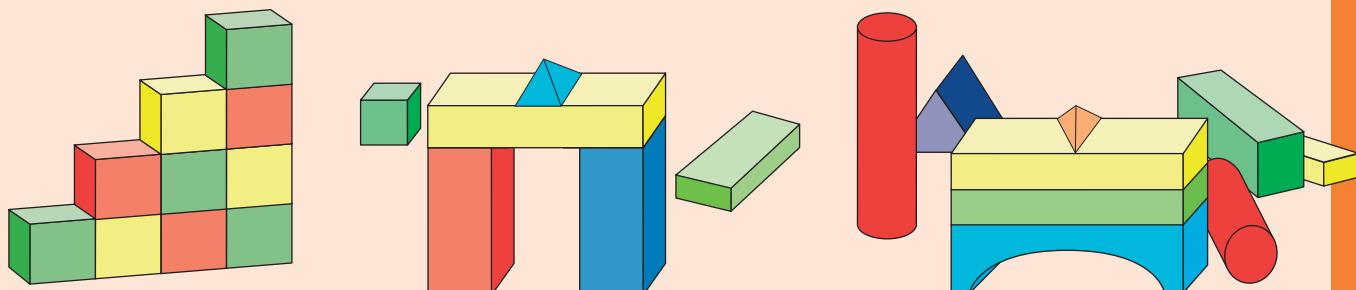
d. Xana silindara yi  
nga rheta?

\_\_\_\_\_.



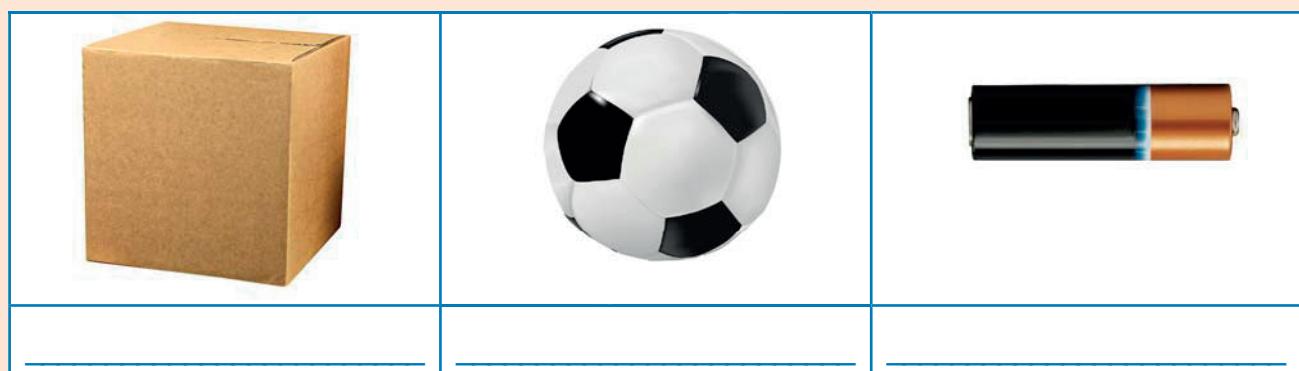
Nyika mavito ya swilo leswi tirhisiweke  
eka xifaniso xin'wana na xin'wana.

U fanele ku vula vito ra nchumu wun'wana na wun'wana kan'we ntsena.  
Vula loko nchumu wolowo wu nga khunguluka kumbe wu rheta.






Vula loko swilo swa 3 wa matlhelo swi ri na vuandlalo bya  
xiphepherhele kumbe byo khotseka.



Dirowa leswi landzelaka:

Bokisi leri balansaka eka silindara	Bolo leyi balansaka ehenhla ka silindara	Silindara leyi balansaka ehenhla ka bokisi.
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q|

## Switirho swa swipandzu swa swiphemu

Siku:

Kotara ya 3



### Endla switirho

Phepha ra Xitsemiwa xa 5

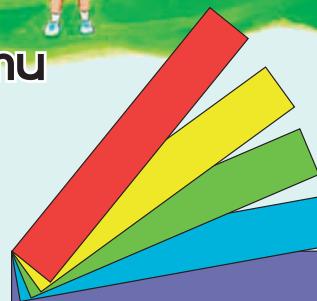
Eka xipandzu xin'we tsala marito ya: "Xiheri xin'we."

Teka xipandzu xin'wana kutani u xi petsa hi hafu hi vukheta.

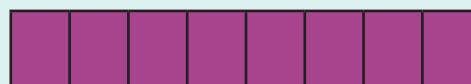
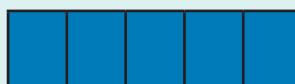
Kutani xi pfule. Xana u na swiphemu leswi ringanaka swingani?

Tsala  $\frac{1}{2}$  eka hafu yin'wana na yin'wana kutani u tsema laha ku petsiweke kona.

Teka xipandzu xa vunharhu kutani u xi petsa hi hafu, u tlhela u xi petsa hi hafu. Xi pfule. Xana u na swiphemu swingani leswi ringanaka? Tsala  $\frac{1}{4}$  eka xa-mune xin'wana na xin'wana kutani u tsema laha ku petsiweke kona. Ringeta ku endla swipandzu swin'wana swimbirhi, xin'we lexi kombisaka swa-ntlhanu



### Tirhisa swiphemu swa switirho swa swiphemu ku ku pfuna ku hlamula swivutiso leswi.



I xa-ntlhanu swingani leswi  
ringanaka na xiheri xin'we?

I xa-nhungu swingani leswi  
ringanaka na hafu yin'we?

### Swiphemu eka ndzhati wa mintsengo

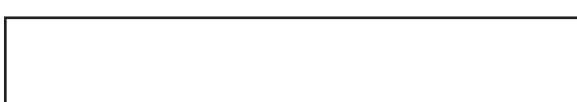
Xipandzu lexi xi kombisa xiheri xin'we.



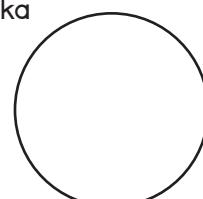
Xirhendzevutana lexi xi kombisa xiheri xin'we.



Avanyisa xipandzu eka swiphemu swa xa-nharhu.



Avanyisa xirhendzevutana eka  
xa-nharhu.



Khalara nwe-xa-nharhu.

Khalara nwe-xa-nharhu.



## Khalara leswi landzelaka:

Hafu yin'we 	Nharhu-xa mune 	Mbirhi-xa-nharhu 
Mune xa ntłhanu 	Hafu yin'we 	Nharhu-xa mune 



## Dirowa leswi landzelaka:

Nharhu-xa-mune u tirhisa xikwere.	Hafu yin'we u tirhisa xirhendzevutana.	Mbirhi-xa-nharhu u tirhisa yinhlanharhu.
Mune-xa-ntłhanu u tirhisa xirhendzevutana.	Xa-nhungu swa mune u tirhisa xikwere.	Mbirhi-xa-nharhu u tirhisa yinhlamune.



## Lulamisa switirho swa wena

- Tsema xin'wana na xin'wana xa **b** wa swirhendzevutana eka Xitsemiwa xa **b**.
- Tsema ntłhanu wa swirhendzevutana eka tilayini swi va swiphemu.
- Lebula xiphemu xin'wana na xin'wana:
  - Eka tlhelo rin'we tsala xiphemu xa awara ya xiheri.
  - Eka tlhelo lerin'wana tsala nhlayo ya timinete eka xiphemu xolexo.



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Siku:

## Swiphemu swin'wana

Kotara ya 3



### Tsala Ina kumbe E-e.

- Hafu i hafu yin'we ya xiheri
- Hafu ya hafu i kotara
- Kotara i hafu ya hafu
- Hafu na tikotara swi endla xiheri
- Hafu na kotara swi endla nharhu-xa-mune

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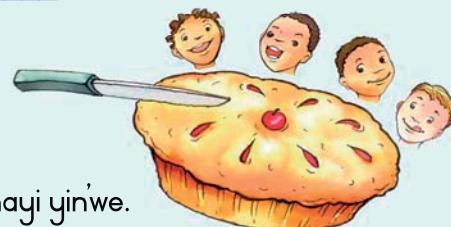
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### Ava phayi

Sipho, Gavaza, Andzani na Lisa va avelana phayi yin'we.



Sipho



a. Ndzi twa ndlala!  
Ndzi lava hafu!



Dirowa xiphemu xa Sipho.

b. Hi swona! Ndzi ta teka kota.

Gavaza



Dirowa swiphemu swa Sipho na Gavaza.

Andzani



c. Ndzi ta kuma hafu  
ya leswi saleke.



Lisa



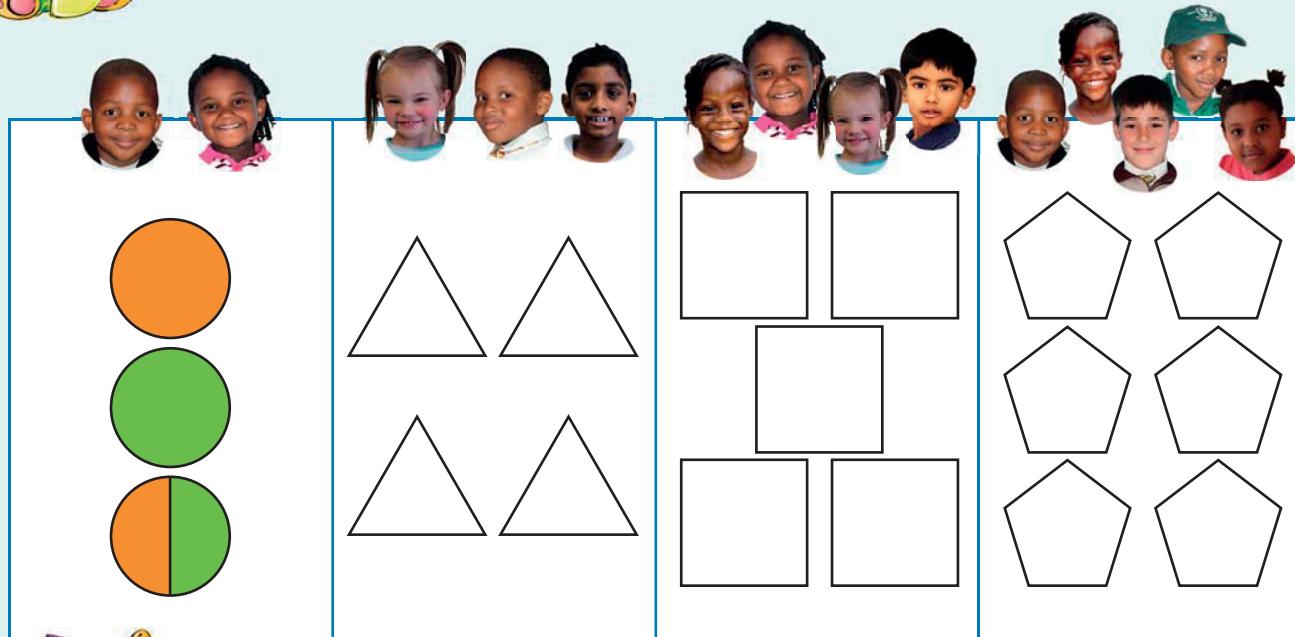
d. Ndzi salele hi phayi yo  
tanihi kwihi?



Dirowa swiphemu swa Sipho, Gavaza na Andzani. Dirowa hinkwaswo swiphemu swa vona swa phayi.



Ava swivumbeko exikarhi ka vana hi ku  
dirowa ntila kutani u swi khalara.



Vanghana va mune va avelana 5 wa swiwitsi  
swa liquorice hi ku ringana.

Xana un'wana na un'wana u ta amukela  
swingani?

Hi xihi xivutiso?

Hi tihi tinomboro?

Dirowa xifaniso.

Vanghana va ntsevu va avelana 9 wa swiwitsi  
swa liquorice hi ku ringana.

Xana un'wana na un'wana u ta amukela  
swingani?

Hi xihi xivutiso?

Hi tihi tinomboro?

Dirowa xifaniso.



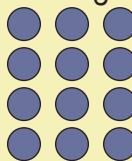
q3

Siku:

## Ku avela loku letelaka eka swiphemu

Kotara ya 3

Ku na 12 wa swihlayelo



Hi vanghana vambirhi. Hi na xibye xin'we lexi avanyisiweke hi hafu.

Hi vula leswaku ley i hafu yin'we.

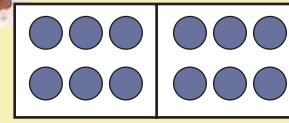
Hi vula leswaku ley i hafu yin'we.



Hi ava swihlayelo swa khumembirhi exikarhi ka hina vambirhi.

Ndzi kumile swihlayelo swa ntsevu.

Ndzi kumile swihlayelo swa ntsevu.



Endla xifaniso xa leswi landzelaka kutani u hlamula xivutiso.

Tibolo ta kaye ti aviwa exikarhi ka vanghana vanharhu.



- Nhwanyana un'wana na un'wana u ta amukela tibolo tingani?
- Nhwanyana un'wana na un'wana u ta amukela xiphemu muni?

Tibolo ta khumembirhi ti aviwa exikarhi ka vanghana va mune. Vanharhu va vanghana lava i vafana.



- Nhwanyana un'wana na un'wana u ta amukela tibolo tingani?
- Mufana un'we u ta amukela xiphemu muni?



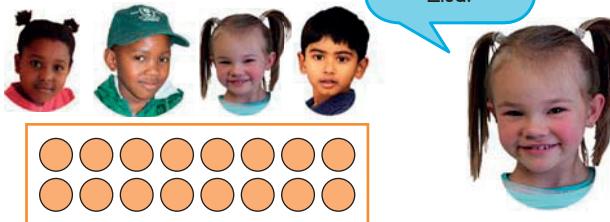
Xana Mandla u ta amukela xiphemu muni?  
Xana Lisa u ta amukela xiphemu muni?

Vito ra mina i Mandla.



- Xana Mandla na Lisa va ta amukela tibolo tingani?

Vito ra mina i Lisa.



- Xana Mandla na Lisa va ta amukela tibolo tingani?



## Ku avelana swiwitsi.



Vanghana van'wana va avelana swiwitsi. Un'wana na un'wana u amukela  $\frac{1}{2}$  (hafu) ya phekete.

- a. I maphakete mangani lama va faneleke ku ya ava exikarhi ka:

4 wa vanghana? \_\_\_\_\_ 6 wa vanghana? \_\_\_\_\_ 9 wa vanghana? \_\_\_\_\_



- b. I vanghana vangani lava nga avelanaka:

4 wa maphakete? \_\_\_\_\_ 10 wa maphakete? \_\_\_\_\_  $3\frac{1}{2}$  wa maphakete? \_\_\_\_\_



## Swikete swa dansi.

Vamanana na vakokwana va rhunga swikete swa dansi.

Ku kuma I xikete va fanele ku kuma  $2\frac{1}{2}$  wa timitara (m) ta lapi.

Lapi ri durha R6 hi mitara.



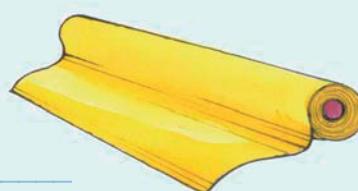
- a. Xana va nga endla swikete swingani hi:

5 m? \_\_\_\_\_ 10 m? \_\_\_\_\_

20 m? \_\_\_\_\_ 25 m? \_\_\_\_\_

- b. I lapi ro tanihi kwihi leri lavekaka ku endla:

2 wa swikete? \_\_\_\_\_ 3 wa swikete? \_\_\_\_\_ 4 wa swikete? \_\_\_\_\_

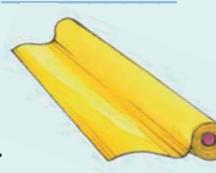


- c. Xana lapi ri durha mali muni ku kota ku endla:

I xikete? \_\_\_\_\_ 2 wa swikete? \_\_\_\_\_ 3 wa swikete? \_\_\_\_\_

- d. Xana va nga endla swikete swingani hi:

R450? \_\_\_\_\_ R825? \_\_\_\_\_ RI80? \_\_\_\_\_



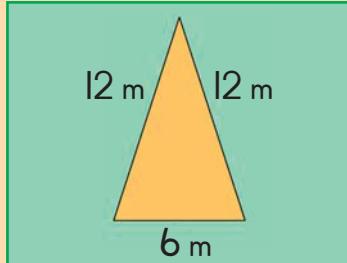
94

Siku:

Kotara ya 3

## Mpfhuka lowu nga kona

Rito ra ndzhendzeleko ri vula ku leha kumbe mpfhuka lowu rhendzelaka xilo.



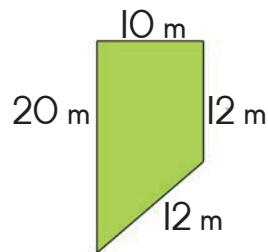
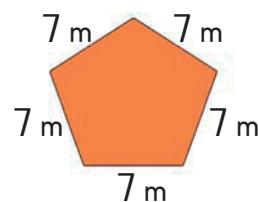
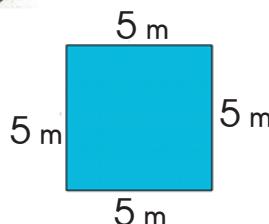
N'wapurasi u na nsimu ya xivumbeko xa yinhlanharhu.

Hi nga kuma ndzhendzeleko wa puloto hi ku hlanganisa vulehi bya matlhelo.

$$\text{Ndzhendzeleko} = 12 \text{ m} + 12 \text{ m} + 6 \text{ m} = 30 \text{ m}$$



## Kuma mirhendzeleko leyi.



## Xirhapa xa Veronica

Veronica u dirowa dayigiramu ya xirhapa lexi a lavaka ku byala eka xona.

a. I yini ndzhendzeleko wa ndhawu ya laha a lavaka ku byala mitsembyani? \_\_\_\_\_

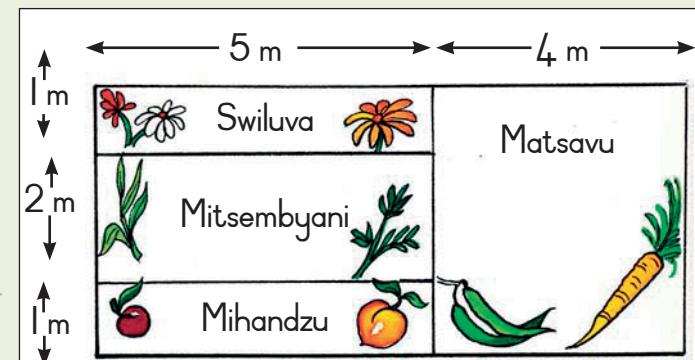
b. Hi swihi swiyenge swimbirhi leswi nga na ndzhendzeleko lowu fanaka?

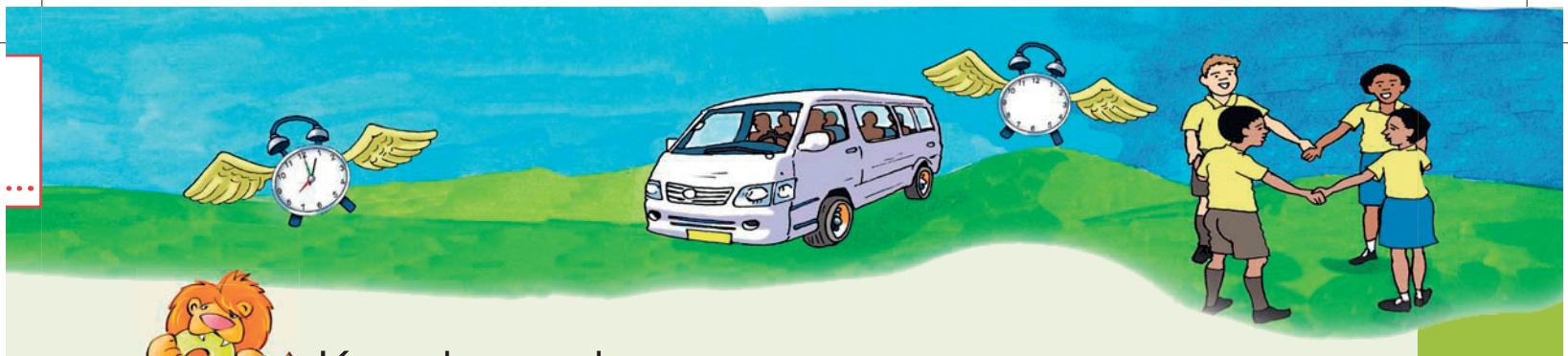
Ndzhendzeleko wa swona i yini?

\_\_\_\_\_ na \_\_\_\_\_ swi na ndzhendzeleko wa \_\_\_\_\_ m.

c. U fanele ku kuma darata leyi nga ta rhendzela xirhapa hinkwaxo. Darata yi durha R50 hi mitara.

Xana darata yi ta vitana mali muni? \_\_\_\_\_





## Kunguhata xirhapa xa wena.

Tirhis phepha ra giridi ro huma eka Xitsemiwa xa 7 ku kunguhata xirhapa xa wena.  
Kombisa mipimo hinkwayo na swimilana leswi u tsakelaka ku swi byala.



## Ku pima swirhendzevutana.

Tirha na munghana wa wena.

**Switirhisiwa:** IO wa minchumu ya swirhendzevutana swa tisayizi  
to hambana ku fana na puleti, nglazi, thepe yo namarheta,  
xipfalo xa bodhlela, ngoti na xikero.

1. Hlawula xin'we xa swilo swa xirhendzevutana lexi u nga ta xi pima hi ngoti.
2. Tsema xiphemu xa ngoti lexi ringanaka ku leha loku rhendzelaka xilo.
3. Sweswi teka ngoti yoleyo u yi ololoxa yi hingakanya xirhendzevutana. Hlayela leswaku yi ringanelia kangani.
4. Endla sweswo hi swilo swin'wana swa xirhendzevutana.
5. Tsala leswi u swi lemukaka.



<p>Mpfhuka lowu rhendzelaka xirhendzevutana wu vitaniwa mpfhuka wa xirhendzevutana.</p>	
<p>Mpfhuka lowu tsemakanyaka xirhendzevutana wu vitaniwa mpandzo-xikarhi.</p>	



95a

Siku:

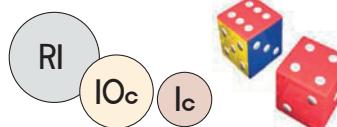
## Ku cincelana mali

Kotara ya 3

Tlanga mintlangu leyi na munghana wa wena.

Switirhisiwa:

RIOO      RIO



RIOO	RIO	RI	IOc	Ic
------	-----	----	-----	----

Bodo ya mali (Xitsemiwa xa 8), phepha na penisele, madayisi mambirhi, mali yo tlangisa (yo huma eka Xitsemiwa xa 9): mali ya phepha ya RIOO na RIO; tikhoyini ta RI, IOc na Ic.

Veka bodo ya mali etafuleni.

Bodo yi na 5 wa swiyenge swo suka eximatsini ku ya exineneni, swi ri na, RIOO, RIO, RI, IO wa tisente na I sente. Eka ntlangu lowu hi tirhisa 3 wa tikholumu.



## Hlanganisa ku fika eka 100 wa tirhandi.

- Mutlangi un'wana na un'wana u kuma nkarhi wa ku hoxa dayisi. Hlanganisa tinomboro timbirhi swin'we.
- Teka nomboro yoleyo ya tikhoyini ta RI u yi veka eka xiyenge xa RI xa bodo ya wena.
- Loko u tikuma u ri na IO wa tikhoyini ta RI u fanele u ti cinca leswaku u kuma mali ya phepha ya RIO.

- Loyi a rhangaka a hlengeleta khume ra ti-RIO ta mali ya phepha leswaku a kota ku kuma RIOO ya mali ya phepha, hi yena muhluri.

- Mixupulo:** Loko mutlangi a heta ku tlanga ka yena ivi a rivala ku cinca khume ra tikhoyini ta RI leswaku a kuma mali ya phepha ya RIO yin'we, kutani a lemukiwa hi mutlangi un'wana, u ta xupuriwa hi ku hakerisiwa RI. Loko mutlangi a rivala ku cinca khume ra ti-RIO ta mali ya phepha leswaku a kuma mali ya phepha ya RIOO, u fanele ku hakela RIO eka mutlangi lon'wana.



## Susa ku suka eka RIOO ku fika eka RO.

Tlangani ntlangu lowu fanaka kambe mi sungula hi khume ra ti-RIO ta mali ya phepha kutani mi susa ntsengo wa tinomboro ta dayisi.

Mutlangi loyi a rhangaka a kuma RO hi yena muhluri.

RIOO	RIO	RI	IOc	Ic



## Ku hlanganisa no susa ku fika eka RI OOO.

Hlanganisa ntsengo wa dayisi eka ku hoxa kun'wana na kun'wana kutani u teka nhlayo yoleyo ya mali ya phepha ya RIO. Loyi a rhangaka a fikelela RI OOO hi yena muhluri. Kumbe sungulani hi RI OOO kutani eka ku hoxa ka dayisi kun'wana na kun'wana, mi susa. Loyi a rhangaka a fika eka RO hi yena loyi a hlulaka.



## Ku hlanganisa ku fika eka RI.

Tlangani tanihi le ka ntlangu wo sungula, handle ka leswaku eka nkarhi lowu loko mi hoxa dayisi mi kuma ntsengo, tekani ntsengo wa dayisi hi tikhoyini ta I sente. Loko mi ri na khume ra tikhoyini ta Ic, ti cinceni mi kuma khoyini ya IOc. Loyi a rhangaka a cinca khume ra tikhoyini ta IOc leswaku a kuma RI hi yena muhluri.



## Susani tisente.

Sungulani hi RI kutani mi susa eka ku tlanga kun'wana na kun'wana. Loyi a rhangaka a kuma O wa tisente hi yena muhluri.



95b

Siku:

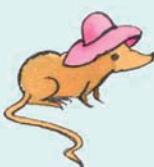
## À hi yeni emavhengeleni!

Kotara ya 3



Ku xavisiwa swigqhoko.

Vhengele ri xavisa swigqhoko hi 5 wa minxavo yo hambana.



							Mintsengo
Xigqhoko xa a 	R20 	R20	R20	R20	R20	R20	R120
Xigqhoko xa b 	R25 	R25	R25	R25	R25	R25	
Xigqhoko xa c 	R50 	R50	R50	R50	R50	R50	
Xigqhoko xa d 	R75 	R75	R75	R75	R75	R75	
Xigqhoko xa e 	R100 	R100	R100	R100	R100	R100	

a. Kuma nxavo wa swigqhoko swa rixaxa rin'wana na rin'wana.

b. Mazondo u xava l xigqhoko xa rixaka rin'wana na rin'wana.

Xana u hakela mali muni hinkwayo? \_\_\_\_\_

Kambisia!  
Ringanisa!  
Lulamisa!

c. Buti u tirhisa R450 loko yi hlanganile hinkwayo. U xava l xigqhoko hi R100.

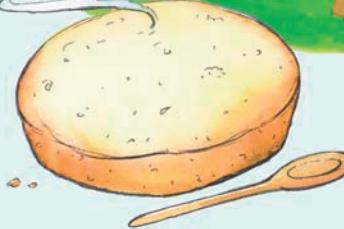
Hi swihi swigqhoko swin'wana leswi a swi xaveke? Kombisa 2 wa tinhlamulo leti nga kumekaka.

Nhlamulo ya 1	Nhlamulo ya 2



## Ebekari.

Musa u tirhisa rhesipi leyi ku baka khekhe ra xiponji.



### Rhesipi ya khekhe ra xiponji

Swa khekhe: 40 g ya fulawuri ya self raising; 3 wa matandza; 50 g ya chukela ro ayisa

Leswi cheriwaka endzeni: 140 ml ya khirimi

a. Kuma leswi Musa a faneleke ku va na swona leswaku a ta kota ku baka 6 wa makhekhe.

Khekhe	Fulawuri	Matandza	Chukela	Khirimi
1	40 g	3	50 g	140 ml
2				
3				
4				
5				
6				

b. Gwajula (✓) nhlamulo leyi faneleke.

Xithinana xa l litara ya khirimi xi nga cheriwa eka: 10 wa makhekhe;

7 wa makhekhe; 8 wa makhekhe



## Tinhlayo ta xihatla.

Kambisia!  
Ringanisa!  
Lulamisa!

$10 \times 7 =$	$10 \times 70 =$	$5 \times 7 =$	$5 \times 70 =$	$70 \times 2 =$
$12 \times 4 =$	$12 \times 8 =$	$6 \times 16 =$	$5 \times 9 =$	$50 \times 9 =$
$15 \times 3 =$	$15 \times 6 =$	$10 \times 4 =$	$8 \times 4 =$	$18 \times 4 =$



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

qb

Siku:

## Swinwana hi switiviwa

Kotara ya 3



Exitichini xa maphorisa.

Maphorisa ya ntłhanu va tirha mintirho yo hambana. Xana va le kwihi sweswi?

	Edesikeni	Eku patiroleni	Ekhoto
Serufe			x
Maria	x		
Sam	x		
Amos		x	
Dudu			x

Tsala vito ra loyi a nga: Edesikeni. \_\_\_\_\_

Eku patiroleni. \_\_\_\_\_

Ekhoto. \_\_\_\_\_



## Siku ra mirhi.



Swikolo swa ntłhanu swa phikizana ku kuma lexi nga ta byala mirhi yo tala hi Siku ro Byala Mirhi.



= 10 wa Mirhi

Klipspruit	10
Mthonjeni	7
Hitekani	8
Thuthong	5
Mosiba	6

Xana xikolo xinwana na xinwana xi byarile mirhi yingani?

Klipspruit	Mthonjeni	Hitekani	Thuthong	Mosiba

Xana swikolo swi byarile mirhi yingani loko yi hanganile hinkwayo? \_\_\_\_\_



## I lwangu ra njhani?

Tiliasi ya Giredi ya 3 yi endla ndzaviso emugangeni wa yona.

Vadyondzi va lava ku tiva hi tinxaka ta malwangu etindlwini to hambana.

Va kombisa mbuyelo wa vona eka girafu leyi ya tibuloko.



Va dirowa l mfungho wa (✓) eka yindlu yin'wana na yin'wana leyi va yi vonaka.



Tithayele	✓	✓	✓	✓	✓	✓					
Byanyi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Timhandze	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Mazingi	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Xana va vona malwangu mangani ya rixaka rin'wana na rin'wana?

Tithayele \_\_\_\_\_ Byanyi \_\_\_\_\_ Timhandze \_\_\_\_\_ Mazingi \_\_\_\_\_

Hi rihi rixaka ra lwangu leri tsakeriwaka swinene? \_\_\_\_\_

Xana va hlayele malwangu mangani hinkwawo ka wona? \_\_\_\_\_



## Tisayizi ta swigqhoko.

Vafana va xikolo xa Juma va ambala tikepisi ta xikolo.

Tikepisi ti ta hi tisayizi ta 2, 3 na 4.

2	2	3	2	3	4	4	3	2	3	2	3
4	2	2	3	3	3	2	2	2	3	4	4
2	3	2	3	4	2	4	4	3	4	2	2
2	2	3	3	3	4	2	2	2	3	3	4
4	2	2	2	3	4	2	4	4	3	2	



Hlayela leswaku i vadyondzi vangani lava ambalaka sayizi yo karhi ya kepisi.

2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_

Hi yihi sayizi leyi ambariwaka hi vana vo tala? \_\_\_\_\_

Kambisia!  
Ringanisa!  
Lulamisa



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

97

Siku:



Kotara ya 4



Ku tirha hi tisentimitara

Ntila lowu khaliariweke wu lehile ku fika kwih?



Rhanga hi ku pimanyeta kutani u pima mintila.  
Hetisa tafula.

Ntila	Mpimanyeto	Mpimo	Ku hambana exikarhi ka mpimanyeto na mpimo.
	—		
	—		
	—		
	—		



Tirhisira rhula ku dirowa mintila leyi landzelaka.

a. 10 cm

b. 7 cm

c. 15 cm



Vula loko u ta pima leswi landzelaka hi timitara kumbe hi tisentimitara.

a. Ku leha ka buku \_\_\_\_\_

b. Ku leha ka nyangwa \_\_\_\_\_

c. Ku leha ka penisele \_\_\_\_\_

d. Ku leha ka wena \_\_\_\_\_

e. Ku leha ka rintiho ra wena \_\_\_\_\_

Tsundzuka minkomiso leyi hi yi tirhisaka ku tsala sentimitara (cm) na mitara (m).



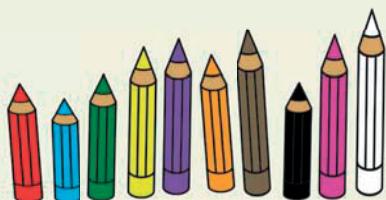
Exikarhi ka lembe u tirhisile khume ra tipenisele ta wena to khalara. Ku leha ka tipenisele ta wena a ku ri 15 cm u nga si ti tirhisa.

Endzhaku ko yi tirhisa penisele yo tshwuka yi sala yi ri 7 cm, ya xivunguvungu i 12 cm, ya xilamula i 9 cm, ya buraweni i 14 cm, ya ntima i 8 cm, ya pinki i 13 cm kasi yo basa i 15 cm.

a. Hi yihi penisele leyi u yi tirhiseke swinene ngopfu? \_\_\_\_\_

b. Hi yihi penisele leyi u nga yi tirhisa switsongo ku tlula hinkwato? \_\_\_\_\_

c. Tsala ku leha ka tipenisele ta wena ku suka eka yo koma swinene ku ya eka leyi nga leha swinene. \_\_\_\_\_



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| ||||| |||||

98

# Tinomboro ta 700 ku fika eka 800

Siku:

.....

Kotara ya 4



Hlayela u tlhela u tsala.

- a. Tirhisa chati leyi landzelaka ku ku pfuna ku hlayela ku suka eka 700 ku fika eka 800.

Vulela tinomboro ehenhla loko u ri karhi u hlayela.

700



701			704					710
						718		
	722							
				736				
741							749	
						758		
		773						
						788		790
792			795					800

- b. Tsala tinomboro leti siyiweke eka giridi leyi nga laha henhla.

- c. Tsala 10 wa tinomboro leti landzelaka 750.

750; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- d. Tsala 8 tinomboro hinkwato hi patironi ya vu-2.

762; 764; 766; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- e. Tsala tinomboro hinkwato hi patironi ya vu-2 ku suka eka 751 ku fika eka 773.

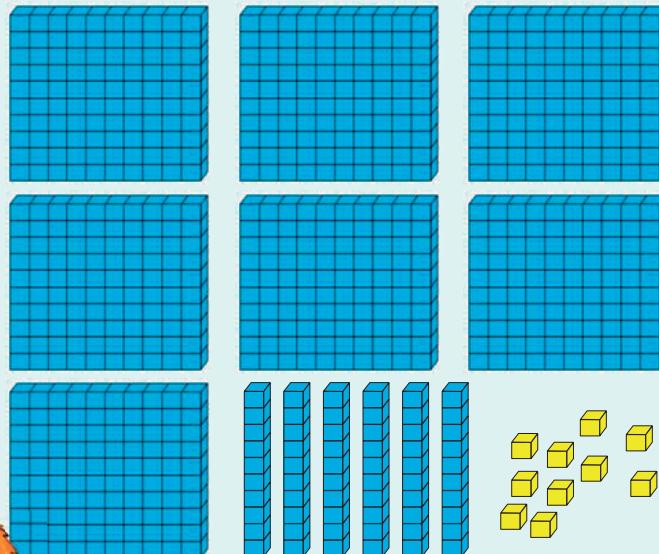
751; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; 773

- f. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

751; 756; 761; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Xana u hlayele tibuloko tingani?

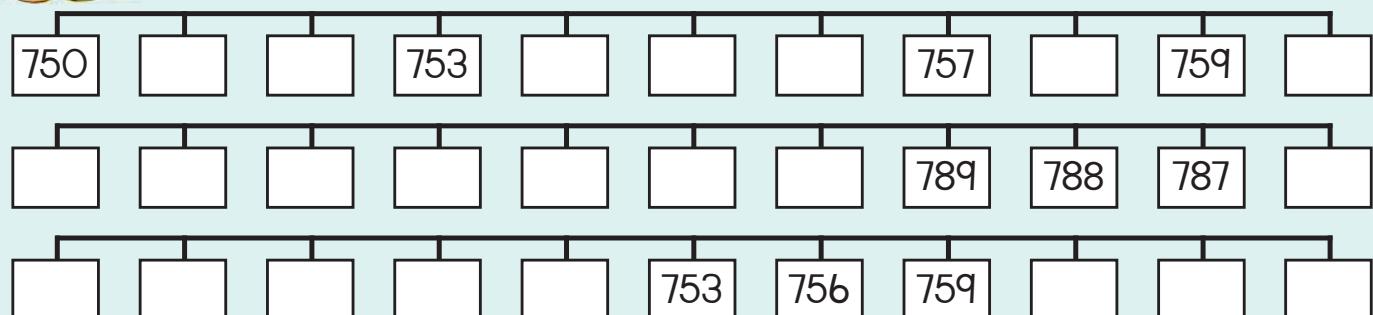


Xana u hlayele tibuloko hi ndlela yih?

--	--	--	--	--	--	--	--	--	--	--	--



Hetisa mindzhati ya mintsengo.



Hetisa  
tafula.

Tsala ku suka eka nomboro  
leyitsongo ku ya eka leyikulu.

Tsala ku suka eka nomboro  
leyikulu ku ya eka leyitsongo.

776, 772, 779, 770, 778

736, 703, 730, 713, 703



Tsala nomboro leyi landzelaka hi marito.

788

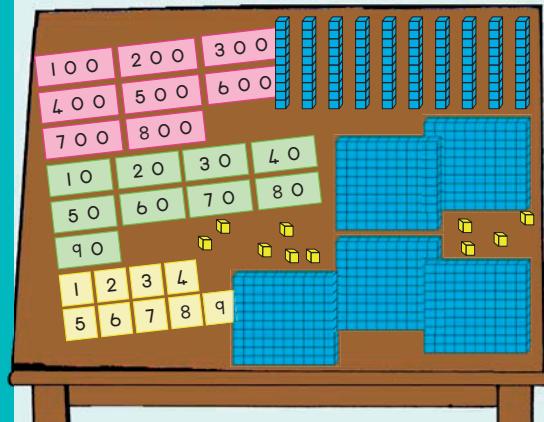
11 12 13 14 15 16 17 18 19 20

qq

# Tinomboro tin'wana ta 700 ku fika eka 800

Siku:

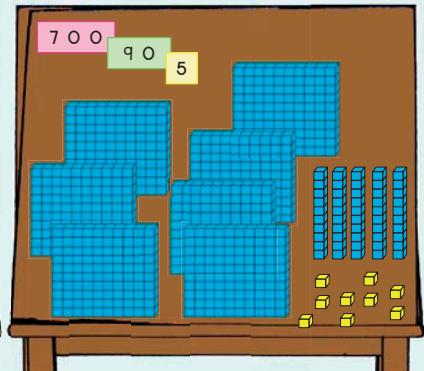
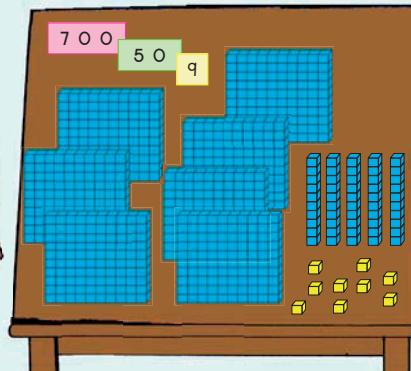
Kotara ya 4



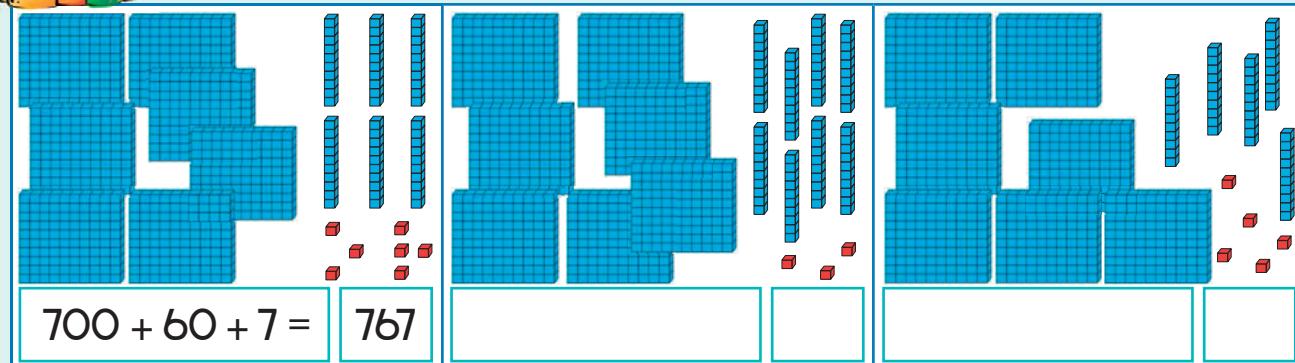
Peter a ri na makhadi ya xijimela-nkoka  
lama landzelaka na tibuloko ta beyisi  
ya khume.

Mudyondzisi u kombela Peter ku  
kombisa 759 hi makhadi ya yena  
na tibuloko.

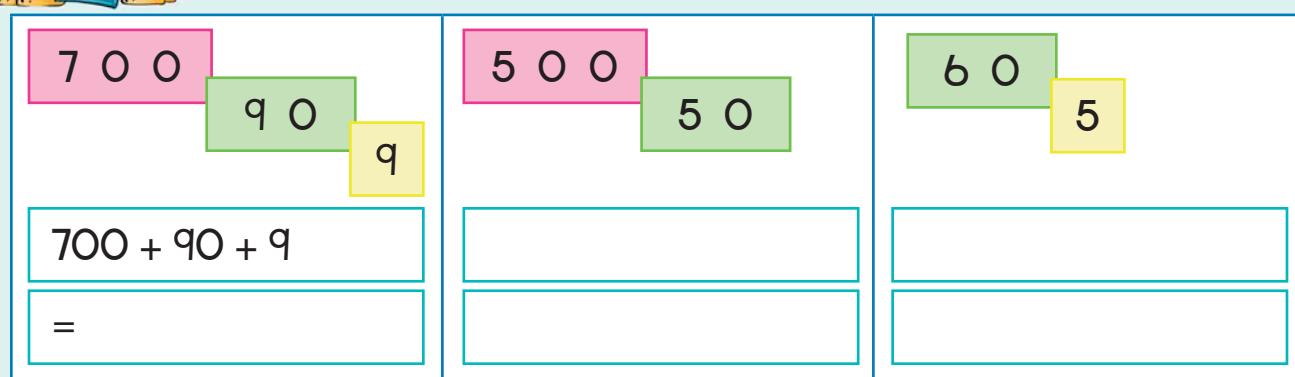
Leswi hi swona leswi  
kombisiweke hi Ben.  
U endlile yini xo hoxeka?



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





## Hetisa ndzhati wa mintsengo.

789    790    791                                799

Ndzi nyike tinomboro hinkwato letitsongo eka 795. \_\_\_\_\_

Ndzi nyike tinomboro hinkwato letikulu eka 795. \_\_\_\_\_



Tatisa <, > kumbe =.

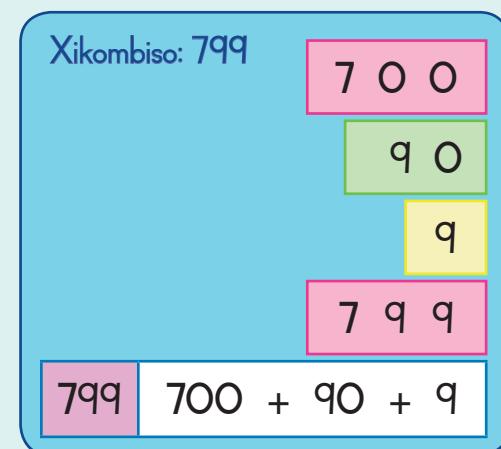
- a. 799  766      b. 745  750  
c.  $700 + 90 + 7$   767



Tlhantlha nomboro ya wena.

- a. Aka nomboro yin'wana na yin'wana hi makhadi ya wena.  
b. Tsala nkoka wa **dijiti** yin'wana na yin'wana. Sweswi endla leswi: Tlhantlha nomboro ya wena.

790	
689	
699	
755	
690	



Tsala mavito ya tinomboro.

668	
757	
799	
742	
691	



100

# Tinomboro tin'wana ta 800 ku fika eka 900

Siku:

.....

Kotara ya 4



Hlayela u tlhela u tsala.

- a. Tirhisa chati leyi landzelaka ku ku pfuna ku hlayela ku suka eka 800 ku fika eka 900.

Vulela tinomboro ehenhla loko u ri karhi u hlayela.

800



801			804					810
						818		
	822							
				836				
841							849	
						858		
			873					
					888		890	
892			895					900

- b. Tsala tinomboro leti siyiweke eka giridi laha henhla.

- c. Tsala 10 wa tinomboro leti landzelaka 800.

800; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- d. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-2.

852; 854; 856; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- e. Tsala tinomboro hinkwato hi patironi ya vu-2 ku suka eka 807 ku fika eka 829

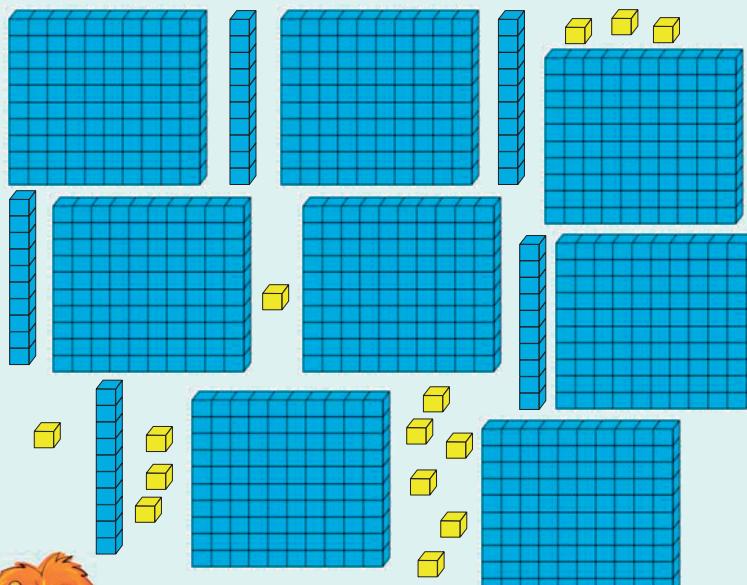
807; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; 829

- f. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

834; 839; 844; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



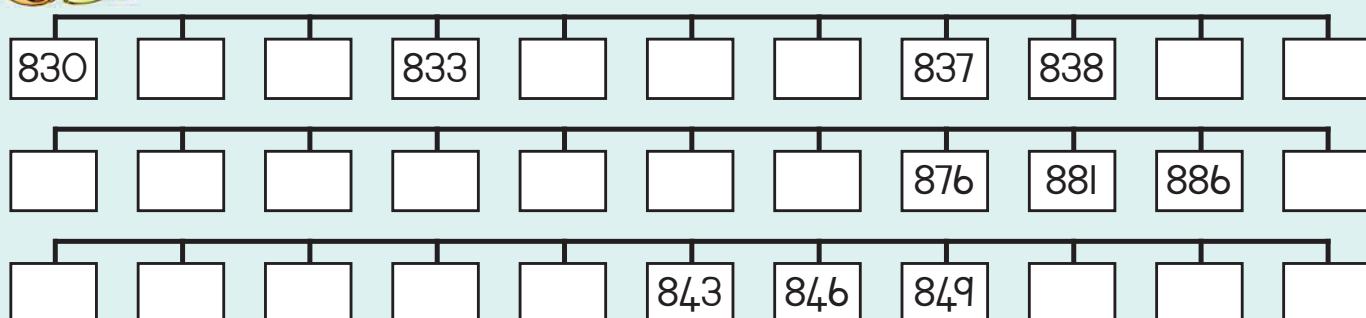
Xana u hlayele tibuloko tingani?



Xana u hlayele tibuloko hi ndlela yihi?



Hetisa mindzhati ya mintsengo.



Hetisa  
tafula.

Tsala ku suka eka nomboro  
leyitsongo ku ya eka leyikulu.

Tsala ku suka eka nomboro  
leyikulu ku ya eka leyitsongo.

856, 853, 855, 851, 857

898, 801, 810, 819, 891



Tsala nomboro leyi landzelaka hi marito.

845

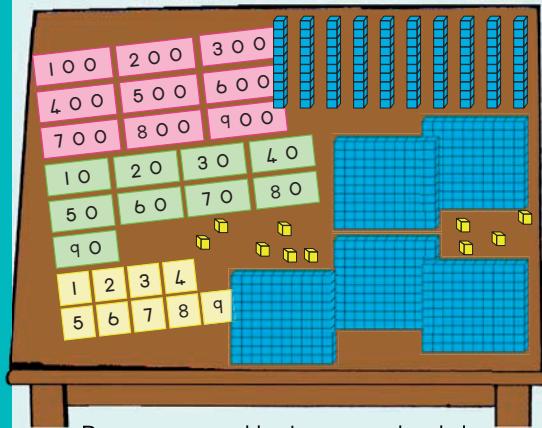
11 12 13 14 15 16 17 18 19 20

101

# Tinomboro ta 800 ku fika eka 900

Siku:

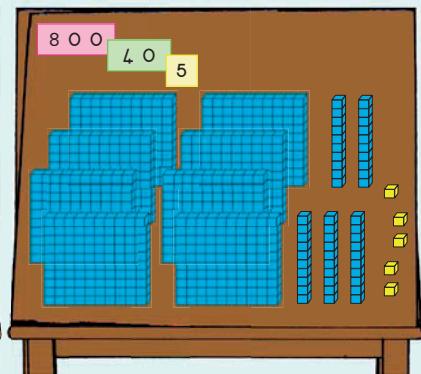
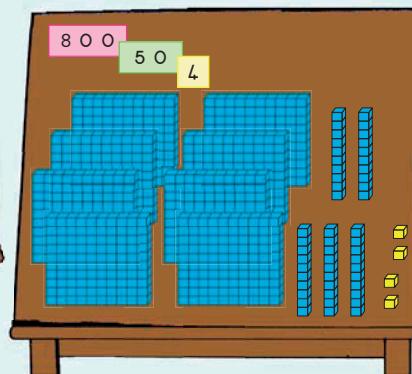
Kotara ya 4



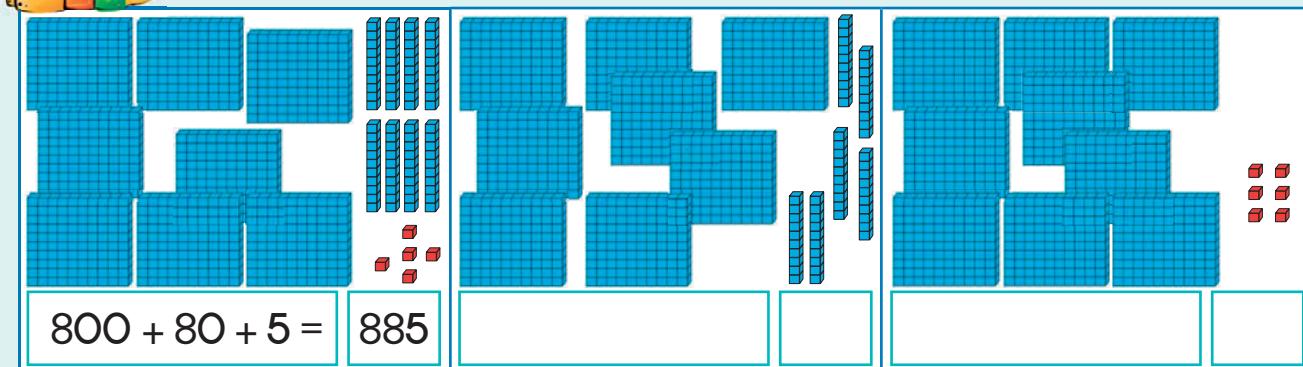
Peter a ri na makhadi ya xiyimela-nkoka na tibuloko ta beyisi ya khume.

Mudyondzisi u kombela Peter ku kombisa 854 hi makhadi ya yena na tibuloko.

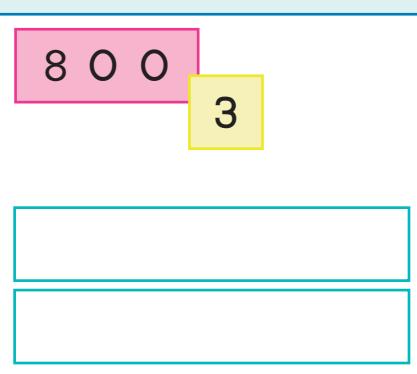
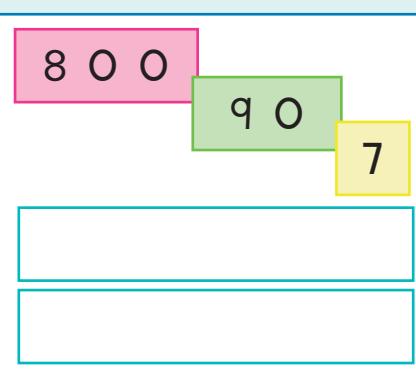
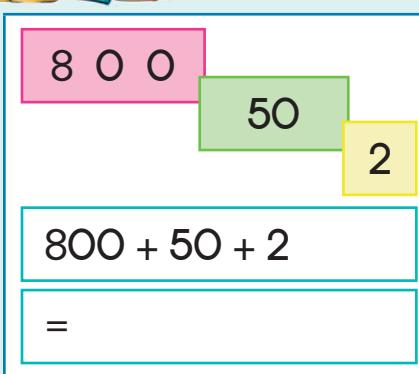
Leswi hi swona leswi kombisiweke hi Ben. Xana i yini lexi a xi endleke hi ndlela yo hoxeka?



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





## Hetisa ndzhati wa mintsengo.

889    890    891                                900

Ndzi nyike tinomboro hinkwato letitsongo eka 894.

Ndzi nyike tinomboro hinkwato letikulu eka 894.



Tatisa <, > kumbe =.

- a. 899  898                  b. 802  820  
c.  $900 + 70 + 5$   785

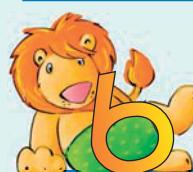
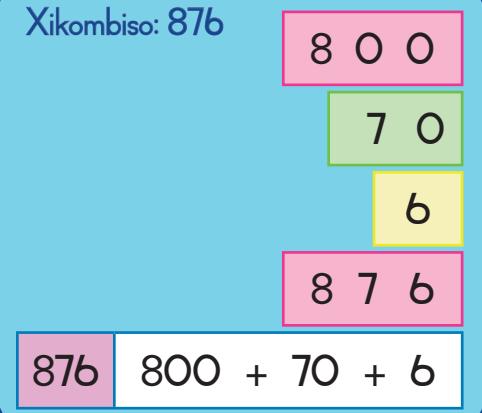


## Tlhantlha nomboro ya wena.

- a. Aka nomboro yin'wana na yin'wana hi makhadi ya wena.  
b. Tsala nkoka wa **dijiti** yin'wana na yin'wana. Sweswi endla leswi: Tlhantlha nomboro ya wena.

890	
889	
802	
855	
840	

Xikombiso: 876

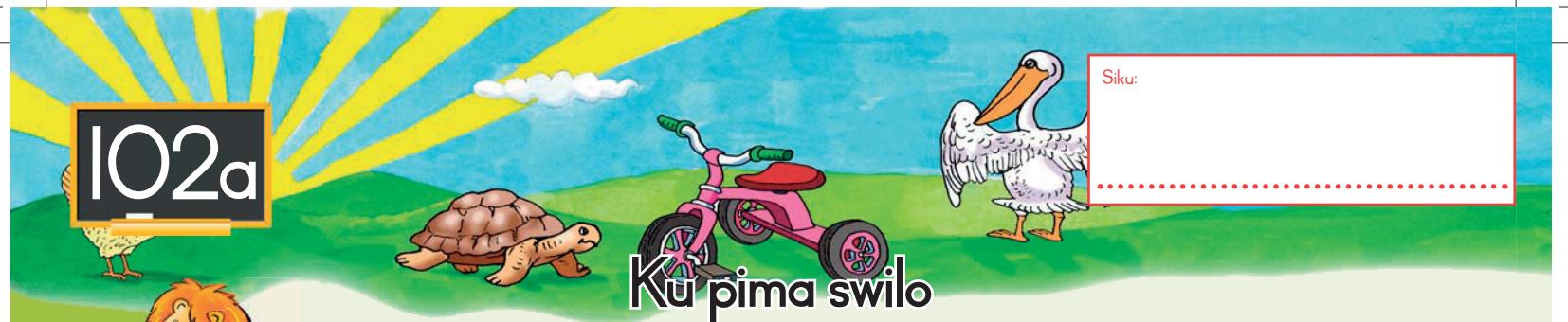


## Tsala mavito ya tinomboro.

889	
825	
803	
830	
899	



102a



Kotara ya 4

## Ku pima swilo

Languta swifaniso leswi landzelaka kutani u hlamula swivutiso.



a. Xana 1 kg ya xisibi xo hlantswa, yi vevukile kumbe yi tika ku tlula 2 kg ya xisibi xo hlantswa?

b. Hi xihi lexi vevukaka: 500 g ya tisirili kumbe 200 g ya mabisikiti?

c. I yini lexi tikaka: 100 g ya khirimi yo tota xikandza kumbe 1 kg ya phakete ra xitampa?



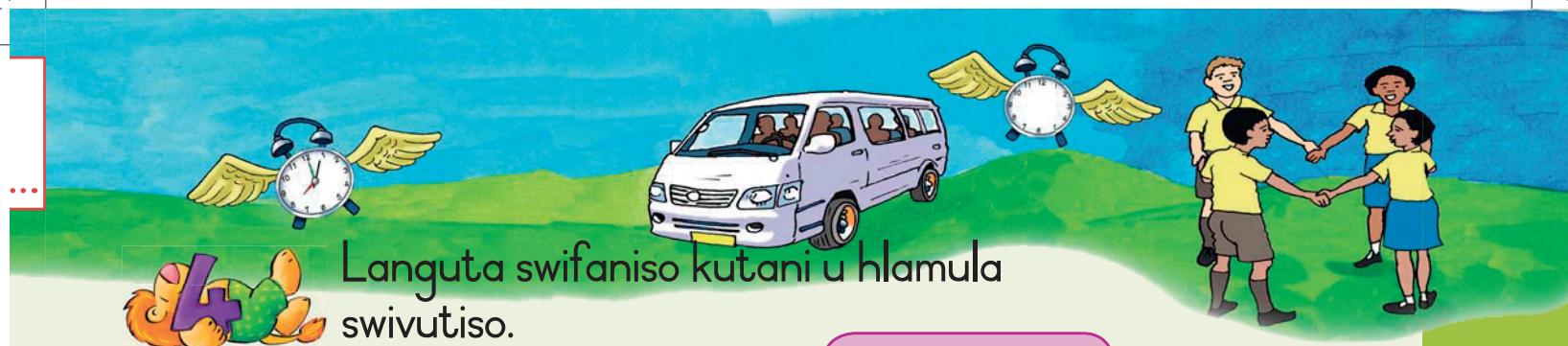
Hinkwerhu loko hi ri swin'we hi na ntiko muni?

Ndzi tika 25 kg, munghana wa mina u tika 29 kg kasi buti wa mina u tika 45 kg.



Xana swendliwa swi na ntiko muni?

Xendliwa xo sungula xi tika 1 kg 500 g, xendliwa xa vumbirhi xi tika 3 kg 500 g kasi xendliwa xo hetelela xi tika 2 kg 500 g.



Languta swifaniso kutani u hlamula  
swivutiso.



Xana ndzi nga tsala njhani  
3,5 kg tanihu tikilogiramu na  
tigiramu?



### Hetisa tafula.

Mudyondzisi wa wena u ta ku nyika swilo swa ntlhanu leswi u nga swi languta.  
Pimanyeta ntiko wa swona kutani u swi pima.

Xanchumu	Mpimanyeto	Mpimo	Ku hambana exikarhi ka mpimanyeto na mpimo



### Xana swendliwa hinkwaswo swi na ntiko muni?

Xendliwa xo sungula xi tika 2 kg 500 g, xendliwa xa vumbirhi xi tika  
1 kg 500 g kasi xendliwa xo hetelela xi tika 3 kg 500 g.



# 102b

## A hi pimeni swinwana

Siku:

Kotara ya 4

Masa i mpimo wo kombisa leswaku ku na nchumu wo tanihi kwihi endzeni ka xanchumu. Loko wu tele, nchumu wolowo wu ta tika ku wu fambisa.

Ntiko i mpimo wa nkoko lowu kokaka xanchumu. Nkoko i wutsongo en'wetini hikwalaho swilo swi na ntiko wa le hansi swinene.

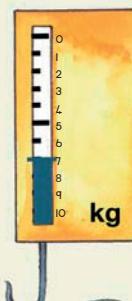
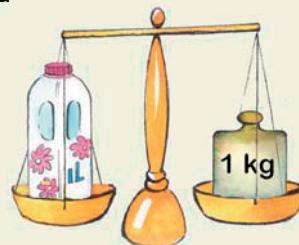
Eka swikongomelo swa masiku hinkwawo laha misaveni, hi tirhisa mipimo yin'we ya masa na ntiko. Hi pima masa hi tikilogiramu na tigiramu.

Swikalu swo hambana.

Hi tirhisa tinxaka to hambana ta swikalu ku pima masa na ntiko.

Hi pima masa hi balansi kasi ntiko wona wu pimiwa hi xikalu xa xipiringi.

Litara ya mati yi na masa wa 1 kg.

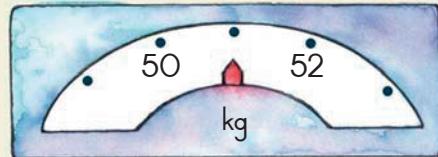
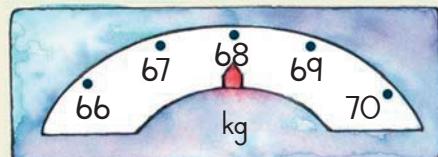
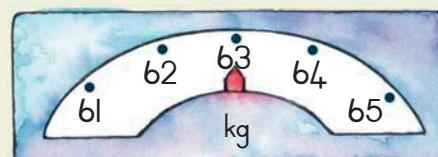
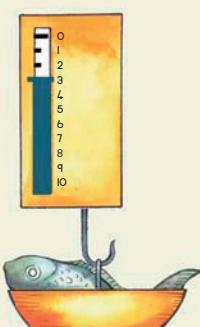


Nhlampfi leyi yi na ntiko wa 3 kg.



### Kuma ntiko wa tona.

Tsala ntiko hi kg leyi kombisiweke eka swikalu leswi swa swipiringi.

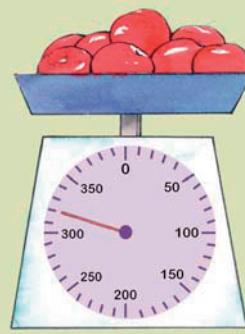




Hi tirhisa tigiramu ku pima masa wa swilo  
leswitsongo kumbe swilo swo vevuka na ku pima  
swiphemu swa kilogiramu.

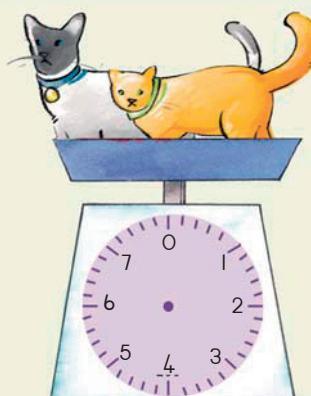
$$1000 \text{ g} = 1 \text{ kg}$$

Eka xikalu lexi xa xipiringi, layini yin'wana na  
yin'wana leyitsongo i **10** wa tigiramu ta ntiko.  
Matamatisi ya tika 320 wa tigiramu.



## Xana swi na ntiko muni?

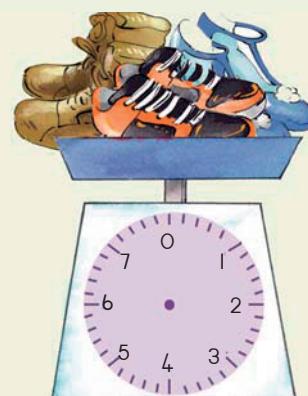
Dirowa exikalwini laha nseve wu faneleke ku ya kona nkarhi wun'wana na wun'wana.



**7 kg**



**4 kg**



**6 kg**



## Endla kilogiramu

Engetela ku endla 1 kg (1 000 g).

- $125 \text{ g} + 250 \text{ g} + 125 \text{ g} + \underline{\hspace{2cm}} \text{ g} = 1000 \text{ g} (1 \text{ kg})$
- $50 \text{ g} + 30 \text{ g} + 240 \text{ g} + 60 \text{ g} + 100 \text{ g} + \underline{\hspace{2cm}} = 1 \text{ kg}$
- $57 \text{ g} + 46 \text{ g} + 243 \text{ g} + 334 \text{ g} = \underline{\hspace{2cm}} = 1000 \text{ g} (1 \text{ kg})$
- $50 \text{ g} + 90 \text{ g} + 160 \text{ g} + \underline{\hspace{2cm}} = 1000 \text{ g} (1 \text{ kg})$



103

# Tinomboro ta 900 ku fika eka 1000

Siku:

Kotara ya 4



Hlayela u tlhela u tsala.

- a. Tirhisa chati leyi landzelaka ku ku pfuna ku hlayela ku suka eka 900 ku fika eka 1000.

Vulela tinomboro ehenhla loko u ri karhi u hlayela.

900



901		903						910
							919	
943							948	
981								
991							999	

- b. Tsala tinomboro leti siyiweke eka giridi laha henhla.

- c. Tsala 10 wa tinomboro leti landzelaka 900.

900; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- d. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-2.

946; 948; 950; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

- e. Tsala tinomboro hinkwato hi patironi ya vu-2 ku suka eka 945 ku fika eka 967.

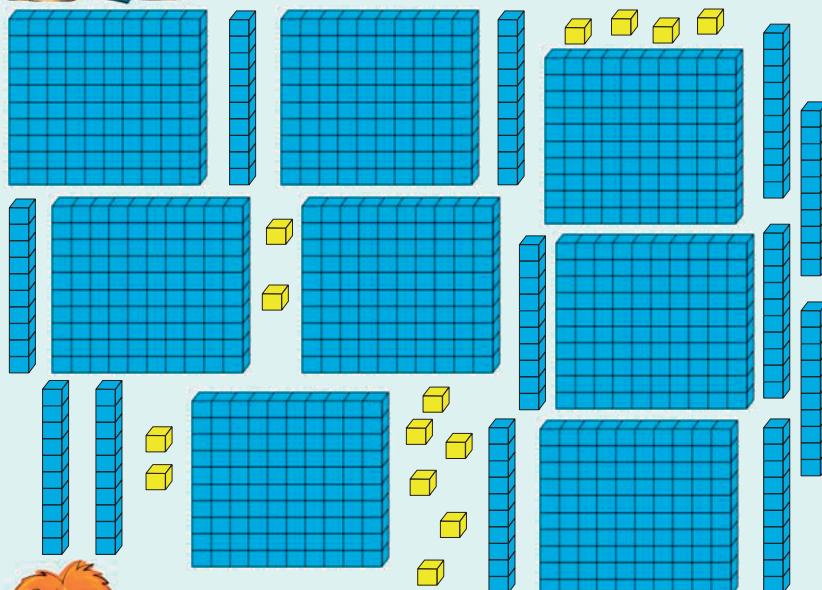
945; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; 967

- f. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

936; 941; 946; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



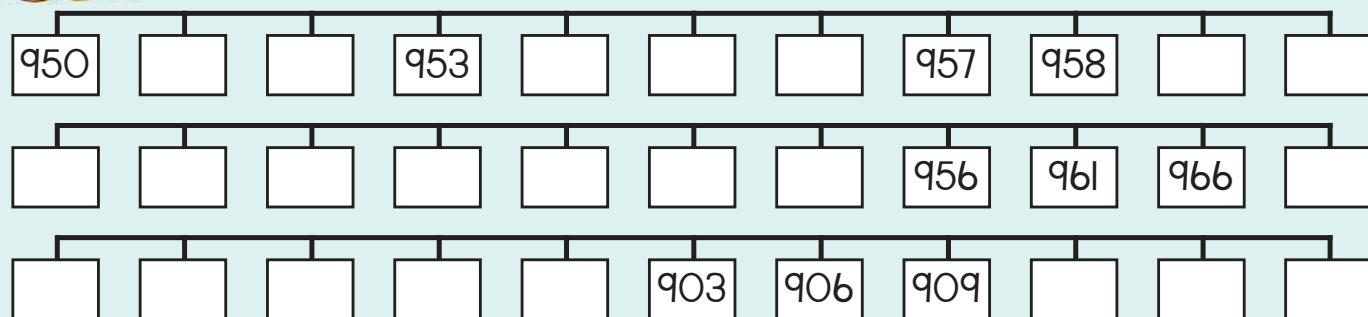
Xana u hlayele tibuloko tingani?



Xana u hlayele tibuloko hi ndlela yihi?



Hetisa mindzhati ya mintsengo.



Hetisa tafula.

Tsala ku suka eka nomboro leyitsongo ku ya eka leyikulu.

Tsala ku suka eka nomboro leyikulu ku ya eka leyitsongo.

q36, q33, q35, q31, q37		
q78, q07, q70, q17, q71		



Tsala nomboro leyi landzelaka hi marito.

695

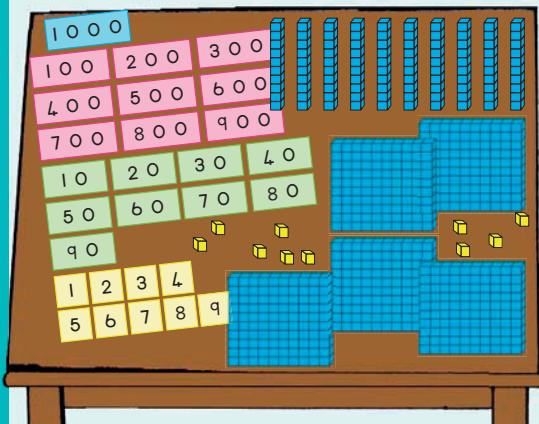


104

## Tinomboro tin'wana ta 900 ku fika eka 1 000

Siku:

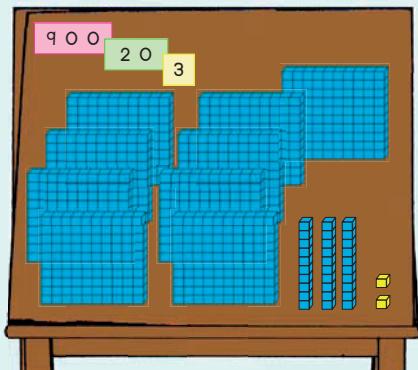
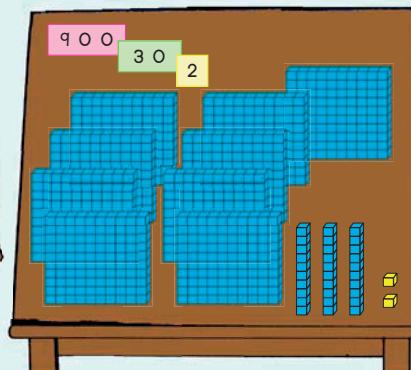
Kotara ya 4



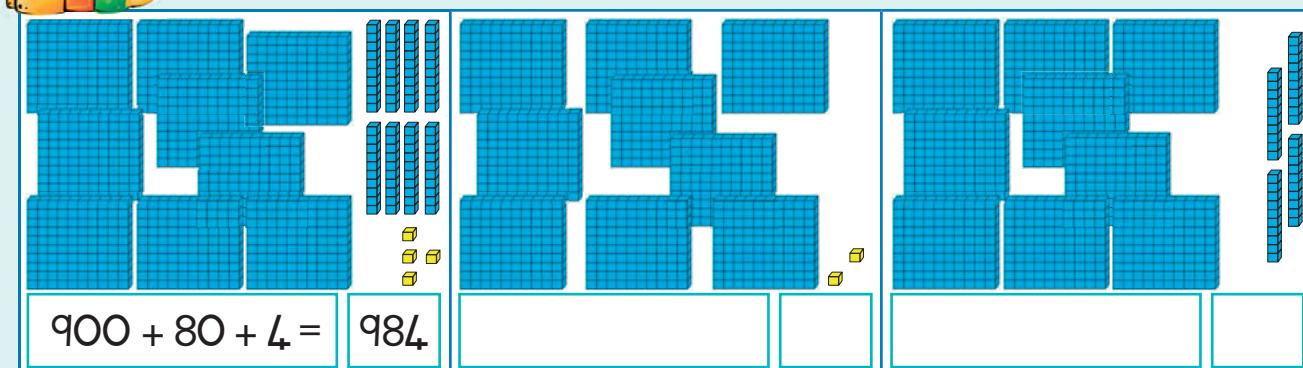
Andile a ri na makhadi ya xiyimela-nkoka na tibuloko ta beyisi ya khume.

Mudyondzisi u kombela Andile ku kombisa 932 hi makhadi ya yena na tibuloko.

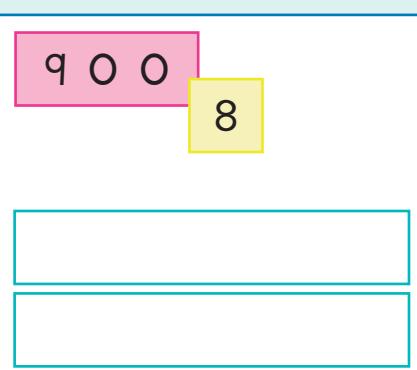
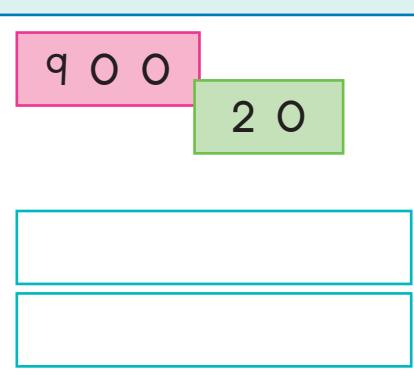
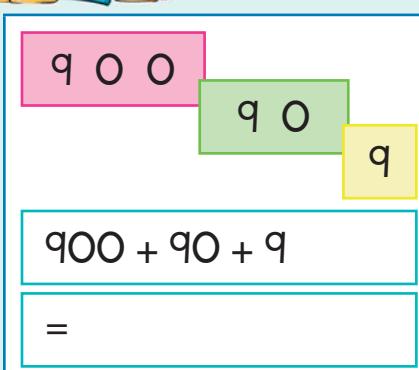
Leswi hi swona leswi kombisiweke hi Gugu. Xana i yini lexi a xi endleke hi ndlela yo hoxeka.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





## Hetisa ndzhati wa mintsengo.

989    990    991                                999

Ndzi nyike tinomboro hinkwato letitsongo eka 995

Ndzi nyike tinomboro hinkwato letikulu eka 995.



Tatisa <, > kumbe =

- a. 999  998      b. 957  975  
c.  $900 + 60 + 1$   961

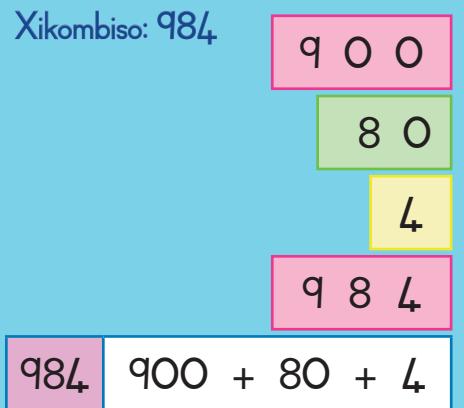


Tlhantlha nomboro ya wena.

- a. Aka nomboro yin'wana na yin'wana hi makhadi ya wena.  
b. Tsala nkoka wa dijiti yin'wana na yin'wana. Sweswi endla leswi: Tlhantlha nomboro ya wena.

922	
959	
980	
907	
931	

Xikombiso: 984



Tsala mavito ya tinomboro.

976	
905	
950	
821	
909	



105

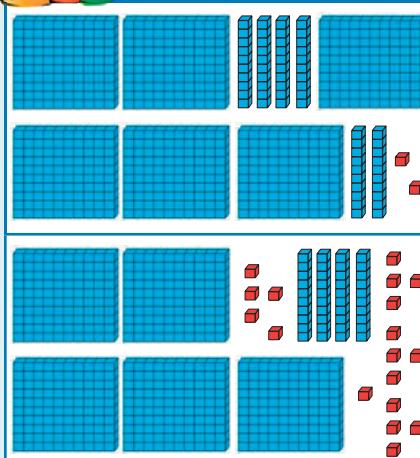
Siku:

## Ku hlanganisa no susa ku fika eka 999

Kotara ya 4



Tsala xivulwa xa tinomboro eka yin'wana na yin'wana.



Hlamusela leswaku u hlayele tibuloko hi ndlela yihi.

Hlamusela leswaku u hlayele tibuloko hi ndlela yihi.



Tirhisa xikombiso ku ku letela.

5 0

5 0

50 kambirhi i 100

3 0 0

3 0 0

2 0 0

2 0 0



Tirhisa kwalomu ka kambirhi ku lulamisa leswi landzelaka.  
Tirhisa xikombiso ku ku letela.

a.  $43 + 44 =$

43 kambirhi + 1

$43 + 43 + 1 = 87$

b.  $81 + 41 =$

c.  $40 + 41 =$

d.  $66 + 67 =$



Tirhisa kambirhi kumbe kwalomu ka  
kambirhi ku ololoxa leswi landzelaka.  
Tirhisa xikombiso ku ku letela.

a.  $340$  kambirhi

$$= 340 + 340$$

$$= 340 \text{ kambirhi}$$

$$= 300 + 300 + 40 + 40$$

$$= 600 + 80$$

$$= 680$$

b.  $340 + 341$

$$= 340 \text{ kambirhi} + 1$$

$$= 300 + 300 + 40 + 40 + 1$$

$$= 600 + 80 + 1$$

$$= 681$$

c.  $470 + 470$

d.  $461 + 462$



Ololoxa leswi landzelaka:



Vadyondzi va Giredi ya 2 va na nhlengeleto wa  $360$  wa timabulu.

Va Giredi ya 3 va na leti nga ehansi hi  $216$  eka leti va Giredi ya 2 va nga na tona.

Xana vadyondzi va Giredi ya 3 va na timabulu tingani?





## Mayelana na yindlu

Kotara ya 4



### Siku ro baka

Hahani Phindi u baka xinkwa eka ovhene ya yena.

Kombisa nkarhi eka tiwachi leti.

U nghanisa xinkwa hi **kotara ku bile awara ya 4**.

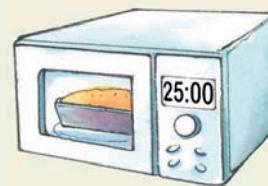
U humesa xinkwa hi **ntlhanu wa timinete ku bile awara ya ntlhanu**.

Xana xinkwa xi tekile nkarhi wo tanahi kwihi ku vupfa?



Manana wa Ann u tirhisa ovhene ya mayikhirowevhi. Ya hatlisa swinene.

Sweswi i 16:30. Languta nkarhi wo sweka lowu vekiweke eka xirhendzelekisi xa ovhene ya mayikhirowevhi.



Xana xinkwa xi ta va xi vupfile hi nkarhi muni?

Xana mayikhirowevhi yi hatlisa ku tlula ovhene hi nkarhi wo tanahi kwihi? \_\_\_\_\_ wa timinete.



### Mintirho ya nimixo



Hi Mugqivela nimixo Musa na Palesa va pfunu mana wa vona hi mintirho ya le ndlwini. Xana ntirho wun'wana na wun'wana wu teka nkarhi wo tanahi kwihi?

	Sungula	Heta	Swi teka nkarhi wo tanahi kwihi?
Ku lulamisa swifahlulo	6:15	6:40	
Ku hlantswa swibye	7:20	8:05	
Ku basisa khixi	8:20	9:15	
Ku basisa bavhurhumu	10:00	10:25	
Ku basisa makamara	11:30	12:15	



## Ku cheleta xirhana

Hoziphayiphi yi nga tirhisa 30 wa tilitara ta mati hi minete!

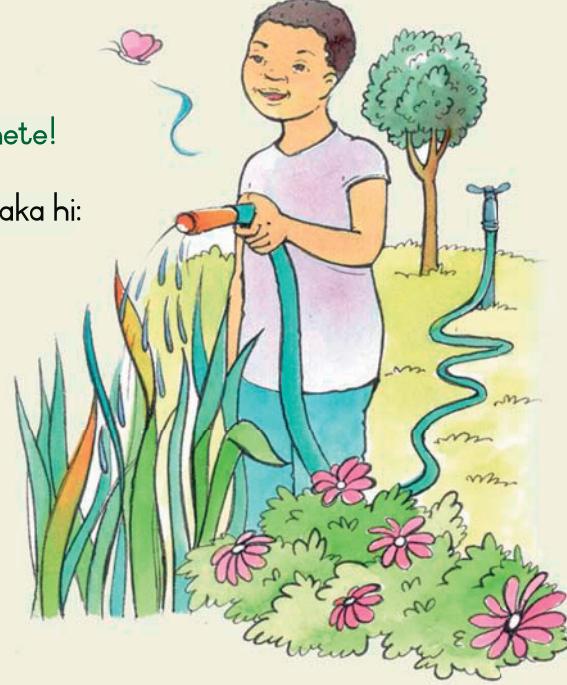
I tilitara ta mati tingani leti hoziphayiphi yi nga ti tirhisaka hi:

2 wa timinete? \_\_\_\_\_ wa tilitara.

$2\frac{1}{2}$  wa timinete? \_\_\_\_\_ wa tilitara.

5 wa timinete? \_\_\_\_\_ wa tilitara.

10 wa timinete? \_\_\_\_\_ wa tilitara.



## Ku sweka xiculu xa kheri

Tata wa Babu u sweka no xavisa xiculu xa kheri. Hi vhiki rin'we, u tirhisa 750 ml ya oyili.

U tsala ehansi leswaku u tirhisa oyili yo tanahi kwihi siku na siku.

Mus	Rmb	Rnh	Rmn	Rntl	Mug	Son
98 ml	122 ml	108 ml	117 ml	109 ml	135 ml	?

a. Xana u tirhisa timililitara (ml) ta oyili tingani ku suka hi Musumbhunuku ku fika hi Mugqivela?  
\_\_\_\_\_ ml

b. Xana u tirhisa timililitara (ml) ta oyili tingani hi Sonto? \_\_\_\_\_ ml

c. Bodhela rin'we ra oyili ya 750 wa timililitara (ml) ri durha RI8,50.

Xana 4 wa mabodhlela ya durha mali muni? \_\_\_\_\_ .



107

Siku:

Kotara ya 4

## Ku tirha hi mali



Hlayela tikhoyini na mali ya phepha.

$10 \times \text{10c} = \text{R } \underline{\quad}$	$20 \times \text{10c} = \text{R } \underline{\quad}$	$50 \times \text{10c} = \text{R } \underline{\quad}$
$10 \times \text{20c} = \text{R } \underline{\quad}$	$20 \times \text{20c} = \text{R } \underline{\quad}$	$50 \times \text{20c} = \text{R } \underline{\quad}$
$10 \times \text{50c} = \text{R } \underline{\quad}$	$20 \times \text{50c} = \text{R } \underline{\quad}$	$50 \times \text{50c} = \text{R } \underline{\quad}$
$10 \times \text{1 Rand} = \text{R } \underline{\quad}$	$20 \times \text{1 Rand} = \text{R } \underline{\quad}$	$50 \times \text{1 Rand} = \text{R } \underline{\quad}$
$10 \times \text{10 Rand} = \text{R } \underline{\quad}$	$20 \times \text{10 Rand} = \text{R } \underline{\quad}$	$50 \times \text{10 Rand} = \text{R } \underline{\quad}$
$100 \times \text{10c} = \text{R } \underline{\quad}$	$100 \times \text{50c} = \text{R } \underline{\quad}$	$100 \times \text{10 Rand} = \text{R } \underline{\quad}$
$100 \times \text{20c} = \text{R } \underline{\quad}$	$100 \times \text{1 Rand} = \text{R } \underline{\quad}$	

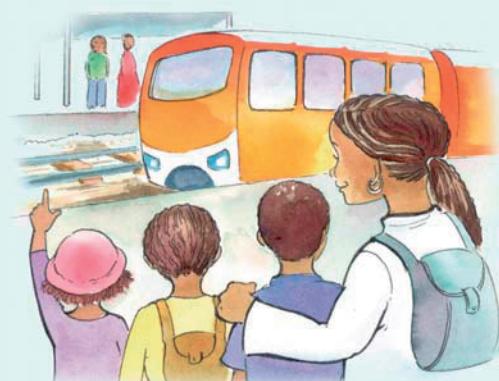


## Rendzo ra xitimela.

Kgethi na 3 wa vana va yena va famba hi xitimela.

Vanhu lavakulu na vana va hakela mali leyi ringanaka.

Kgethi u hakela hi mali leyi ya phepha.

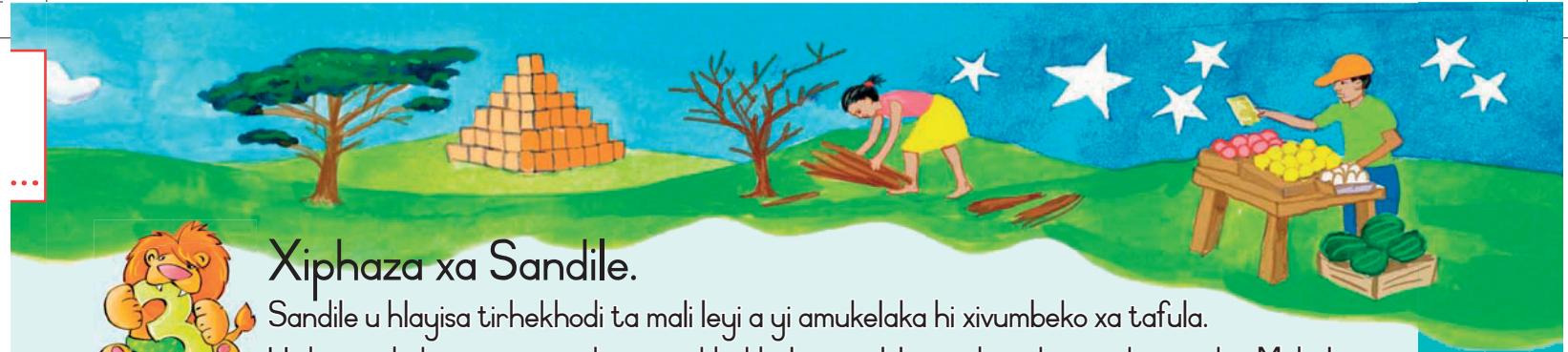


U kuma cinci ya R30.

Xana nxavo wa l thikithi i yini? Gwajula (✓) nhlamulo leyi faneleke:

- a. R90  b. R32  c. R80  d. R45,50

Kambisisa!  
Ringanisa!  
Lulamisa!



## Xiphaza xa Sandile.

Sandile u hlayisa tirhekhodi ta mali leyti a yi amukelaka hi xivumbeko xa tafula.

Ur rhanga hi ku pimanyeta kutani a khakhuleta mali leyti nghenaka ya siku na siku. Muholo i mali leyti tirheriwaka kumbe leyti amukeriwaka. Pfuna Sandile ku hetisa mikhakhuleto ya yena.

	Pimanyeta	Ntsengo
Musumbhunuku	R50 + R75 + R200 + R350 + R25	
Ravumbirhi	R25 + R175 + R50 + R320 + R90	
Ravunharhu	R50 + R75 + R200 + R350 + R25	
Ravumune	R120 + R55 + R180 + R245 + R25	
Ravuntlhanu	R60 + R150 + R140 + R200 + R125	
Mugqivela	R50 + R75 + R200 + R350 + R25	
Sonto		

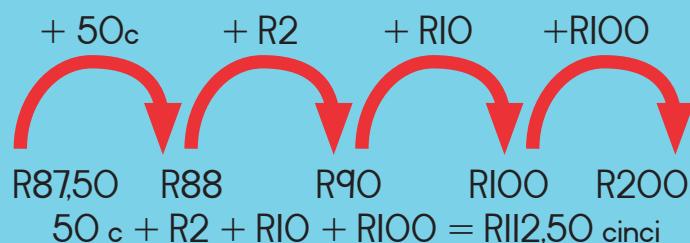


## Kuma leswaku cinci yi ta va yini.

Ku kuma cinci ya wena u nga hlanganisa mali ya nxavo wa swilo kutani u susa ntsengo eka mali ya phepha leyti u hakelaka hi yona.

Xikombiso:

Palesa u xava swakudya swa R87,50.  
U hakela hi mali ya phepha ya R200.  
Xana cinci ya yena i mali muni?



Tirhisa mindzhati ya mintsengo ku ku pfuna ku kuma cinci.

Nxavo: R229,40

Hakela hi:

Nxavo: R305,60

Hakela hi:



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## Ku hlanganisa na ku susa kun'wana ku fika eka qqq

Siku:

Kotara ya 4



A hi ololoxeni xiphiqo.

Gavaza u hlengaletile 234 wa switikara.

Mandla u n'wi nyikile 501 wa switikara swin'wana.

Xana u na switikara swingani sweswi?

Hi xihi xivutiso?

Xana u na switikara swingani sweswi?

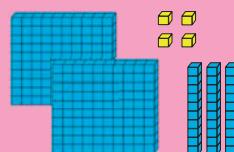
Rito ra nkoka hi rihi? Swin'wana

Hi tihii tinomboro? 234 na 501

A hi kombiseni leswi hi tibuloko ta beyisi ya khume.

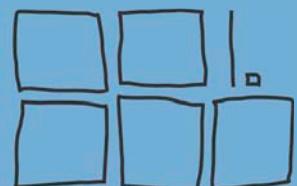


Leswi Lisa a swi endleke ku ololoxa xiphiqo xa Gavaza.



Leswi endleke hi Aakar hi leswi.

U dirowile xifaniso.



Leswi mavekele ya Lisa ya tibuloko ta beyisi ya khume ya fanisaka xiswona na xifaniso xa Aakar.

Tirhisa nomboro leyi nga eka xiphiqo ku kota ku xi ololoxa laha hansi u tirhisa maendlele mambirhi lawa u ya dyondzeke.

Maendlele ya 1

Maendlele ya 2



## Mintirho ya nimixo.

Thembi u hlengeleta swilo swa phurojeke ya xikolo yo rhisayikila.

U hlengeletile 624 wa mabodhlela ya tipulasitiki na 268 wa swikotela. Xana u hlengeletile swilo swingani loko swi hlanganile hinkwaswo?

Hi xahi xivutiso?

Hi tihi tinomboro?	Hi rihi rito ra nkoka? Gwajula nhlamulo leyi faneleke. Rito ra nkoka ri hi byela leswaku hi:
Dirowa xifaniso	Tirhisa maendlele ya wena yo ololoxa xiphiqo

Vhengele ri na 900 wa maphakete ya chukela. Endzhaku ko xavisa maphakete man'wana, ku sale 659 wa maphakete ya chukela. Xana va xavisile maphakete mangani?

Hi xahi xivutiso?

Hi tihi tinomboro?	Hi rihi rito ra nkoka? Gwajula nhlamulo leyi faneleke. Rito ra nkoka ri hi byela leswaku hi:
Dirowa xifaniso	Tirhisa maendlele ya wena yo ololoxa xiphiqo



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# Ku hlanganisa no susa ku fika eka qqq nakambe

Siku:

Kotara ya 4

Languta tidayigiramu kutani u ti hlamusela.



Hetisa leswi landzelaka:

- a.  $223 + 223 =$  \_\_\_\_\_.
- b.  $160 + 160 =$  \_\_\_\_\_.
- c.  $115 + 115 =$  \_\_\_\_\_.
- d.  $315 + 315 =$  \_\_\_\_\_.

- e.  $117 + 117 =$  \_\_\_\_\_.
- f.  $450 + 450 =$  \_\_\_\_\_.
- g.  $112 +$  \_\_\_\_\_  $= 224.$
- h.  $116 +$  \_\_\_\_\_  $= 232.$

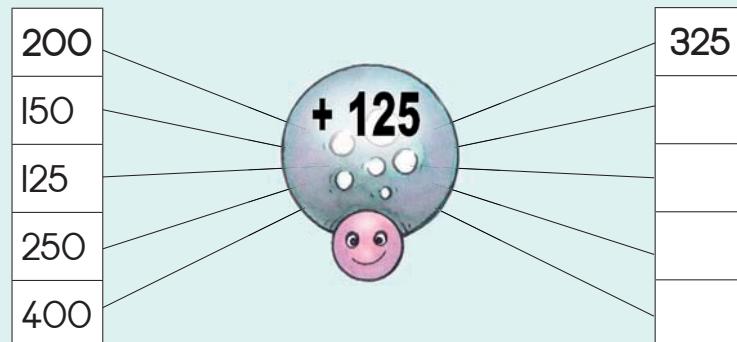
Tsala tinomboro:

- a.  $12$  yi engetela eka  $523$  i \_\_\_\_\_.
- b.  $540$  yi va ehansi hi  $15$  i \_\_\_\_\_.
- c.  $20$  yi engetela eka  $576$  i \_\_\_\_\_.
- d.  $590$  yi va ehansi hi  $60$  i \_\_\_\_\_.

- e.  $537$  yi va ehansi hi  $29$  i \_\_\_\_\_.
- f. Hafu ya  $300$  i \_\_\_\_\_.
- g.  $420$  kambirhi i \_\_\_\_\_.
- h. Hafu ya  $600$  i \_\_\_\_\_.



Hlanganisa  
na 125.





I yini xi endlaka 1000?

a.	$200 + 150 + 50 + \boxed{\phantom{00}} = 1000$	e.	$25 + \boxed{\phantom{00}} + 900 = 1000$
b.	$1000 = 560 + \boxed{\phantom{00}} + 400$	f.	$\boxed{\phantom{00}} + 700 + 50 = 1000$
c.	$670 + \boxed{\phantom{00}} = 1000$	g.	$1000 = 420 + \boxed{\phantom{00}} + 500$
d.	$910 + 40 + \boxed{\phantom{00}} = 1000$	h.	$\boxed{\phantom{00}} + 30 + 900 = 1000$

Lava mindyangu ya tinomboro ta + na -

Xikombiso:  $125 + 600 = 725$     $725 - 125 = 600$     $725 - 600 = 125$



Kambisisa!  
Ringanisa!  
Lulamisa!

$123 + 77 = \boxed{\phantom{00}}$	$\boxed{\phantom{00}} - 77 = 123$	$\boxed{\phantom{00}} - 123 = 77$
$650 + \boxed{\phantom{00}} = 800$	$800 - 650 = \boxed{\phantom{00}}$	$\boxed{\phantom{00}} + 650 = 800$
$1000 - 250 = \boxed{\phantom{00}}$	$1000 - \boxed{\phantom{00}} = 250$	$250 + \boxed{\phantom{00}} = 1000$
$56 + \boxed{\phantom{00}} = 300$	$300 - \boxed{\phantom{00}} = 56$	$\boxed{\phantom{00}} + 56 = \boxed{\phantom{00}}$
$820 + \boxed{\phantom{00}} = 1000$	$1000 - \boxed{\phantom{00}} = 820$	$1000 - 820 = \boxed{\phantom{00}}$

Hlanganisa u tlhela u susa vukhume na vudzana.



a. Vukhume na vudzana

$78 + 10 =$	$149 + 10 =$	$456 + 100 =$	$987 + 10 =$
$636 + 100 =$	$801 + 100 =$	$727 + 100 =$	$612 + 10 =$
$456 - 10 =$	$749 - 100 =$	$829 - 100 =$	$987 - 10 =$
$875 + 10 =$	$709 - 100 =$	$815 + 10 =$	$903 - 100 =$

b. Makume ya xiheri (Minyandzisiwa ya 10)

$150 - 30 =$	$190 - 60 =$	$175 - 50 =$	$990 - 80 =$
$210 + 90 =$	$335 + 60 =$	$660 + 50 =$	$812 + 60 =$
$256 - 50 =$	$320 - 30 =$	$785 - 60 =$	$999 - 90 =$
$567 + 37 =$	$671 + 90 =$	$832 + 80 =$	$928 + 80 =$

Ololoxa leswi landzelaka:

$$925 + 53 = \boxed{\phantom{00}} \quad 571 + 202 = \boxed{\phantom{00}} \quad 786 + 75 = \boxed{\phantom{00}} \quad 903 + 95 = \boxed{\phantom{00}}$$



11 12 13 14 15 16 17 18 19 20

110

## Swiphazamiso swa mpimo

Siku:

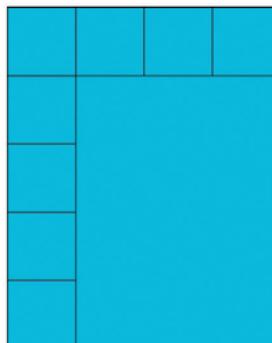
Kotara ya 4



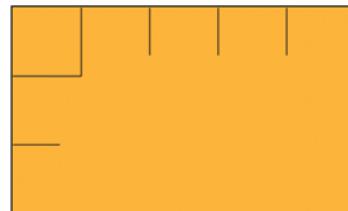
### Kuma vuandlalo

I swikwere swingani swa sayizi  leyji leswi u faneleke ku swi kuma ku hetisa xivumbeko xin'wana na xin'wana? Tirhisa maendlele ya wena ku swi tirha. U nga dirowa swikwere eswifanisweni ku ku pfuna ku swi tirha.

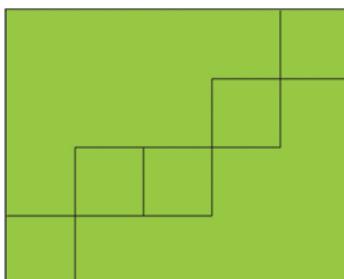
a.



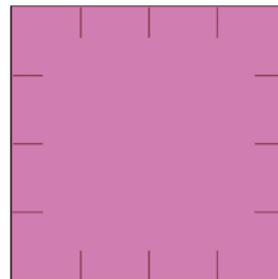
b.



c.



d.



### Tshunxa xitekatekisani.



U faneleku pima 4 wa tilitara ta mati. U na swibye swimbirhi ntsena. Xin'we xi khoma 3 wa tilitara kasi lexin'wana xi khoma 5 wa tilitara. Xana u ta swi endla njhani?

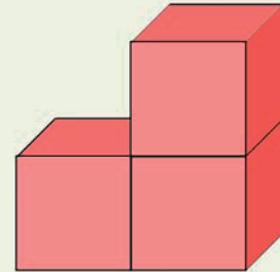
Vuthala: Ku na tindlela timbirhi ta maendlele.



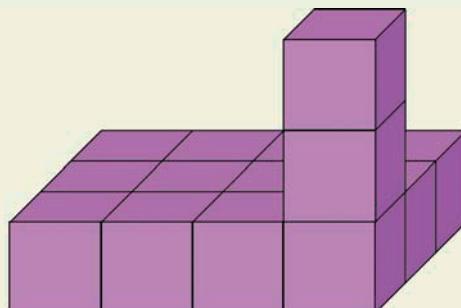
## Xana u vona yini?

Tibuloko tinharu ti namarhetiwe swin'we tanihu le ka xifaniso lexi.

Loko u tlakula tibuloko leti hlanganisiweke, xana u nga hlayela swikwere swingani leswi nga ehandle?



## Hlayela tikhulu.



I tikhulu tingani leti vumbaka xivumbeko lexi?



## Ntlhontlho: Xitekatekisani xa nkarhi.

Una swikombankarhi swa sava swimbirhi.

Xin'we xi pima 7 wa timinete kasi lexin'wana xi pima 11 wa timinete.

Xana u nga tirhisa swikombankarhi hi ndlela yihi ku kumisia loko 15 wa timinete ti hundzile?

Kambisia!  
Ringanisa!  
Lulamisa!



11 12 13 14 15 16 17 18 19 20

III

## Tipatironi ta tinomboro: vukhume ku fika eka 900

Siku:

Kotara ya 4

A hi hlayeleni hi vukhume ku suka eka 810 ku fika eka 900.

801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900



Tinomboro leti nga endzeni ka swirhendzevutana ti hi kombisa tipatironi ta njhani?

Leti tsondzeriweke hi xirhendzevutana xo  
**tshwuka**: Ku hlayela hi \_\_\_\_\_.

Tsala patironi: \_\_\_\_\_

Leti tsondzeriweke hi xirhendzevutana xa **nihlaza**:  
Ku hlayela hi \_\_\_\_\_.

Tsala patironi: \_\_\_\_\_



Khakhuleta.

a. $874 + 10 + 10 + 10 =$ _____	b. $858 - 10 - 10 - 10 - 10 =$ _____
c. $845 + 10 + 10 =$ _____	d. $858 - 10 - 10 - 10 =$ _____
e. $836 + 10 =$ _____	f. $866 - 10 - 10 =$ _____
g. $892 + 10 + 10 + 10 =$ _____	h. $87 - 10 - 10 - 10 =$ _____
i. $880 + 10 + 10 =$ _____	j. $855 - 10 =$ _____



## Tihunyi tingani?

Ku na 10 wa tihunyi



eka nyandza yin'we.



1		=	wa tihunyi
2		=	wa tihunyi
3		=	wa tihunyi
4		=	wa tihunyi
5		=	wa tihunyi
6		=	wa tihunyi
7		=	wa tihunyi
8		=	wa tihunyi
9		=	wa tihunyi
10		=	wa tihunyi

10		=	wa tihunyi
20		=	wa tihunyi
30		=	wa tihunyi
40		=	wa tihunyi
50		=	wa tihunyi
60		=	wa tihunyi
70		=	wa tihunyi
80		=	wa tihunyi
90		=	wa tihunyi
100		=	wa tihunyi



## Tinxaxa ta tihunyi.



Ku na khume ra tinyandza ta tihunyi erixaxeni = 100 wa tihunyi

Irixaxa ra 10 wa tinyandza = 100 wa tihunyi

$$10 \times 10 = 100$$

2 wa tinxaxa ta 10 wa tinyandza = \_\_\_\_\_ wa tihunyi

$$20 \times 10 = _____$$

4 wa tinxaxa ta 10 wa tinyandza = \_\_\_\_\_ wa tihunyi

$$40 \times 10 = _____$$

10 wa tinxaxa 10 wa tinyandza = \_\_\_\_\_ wa tihunyi

$$100 \times 10 = _____$$



## Tinyandza tingani?



700 wa tihunyi ti endla \_\_\_\_\_ wa tinyandza.

900 wa tihunyi ti endla \_\_\_\_\_ wa tinyandza.

1 000 wa tihunyi ti endla \_\_\_\_\_ wa tinyandza.



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Kotara ya 4

Hi yisile tinomboro eka khume ra le kusuhi eka phepha ro tirhela leri nga hundza. Languta ndzhati lowu wa mintsengo kutani u hlamusela munghana wa wena leswi u nga ta yisisa xiswona eka khume ra le kusuhi.



Tsundzuka leswaku u fanele  
ku xiya vun'we loko u yisa  
eka 10 ya le kusuhi.

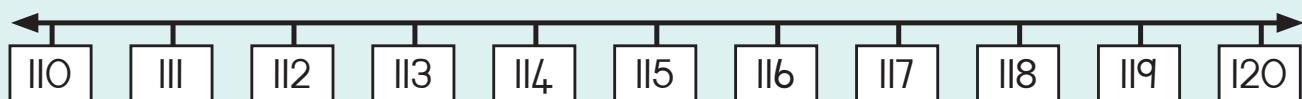


Yisa eka 10 ya le kusuhi.



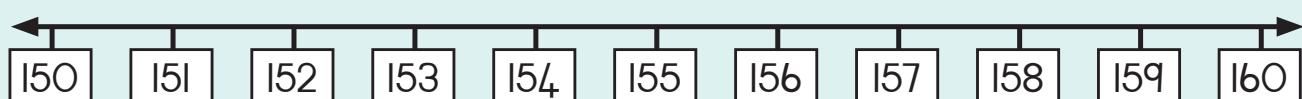
114 yi ta va yini? \_\_\_\_\_

117 yi ta va yini? \_\_\_\_\_



159 yi ta va yini? \_\_\_\_\_

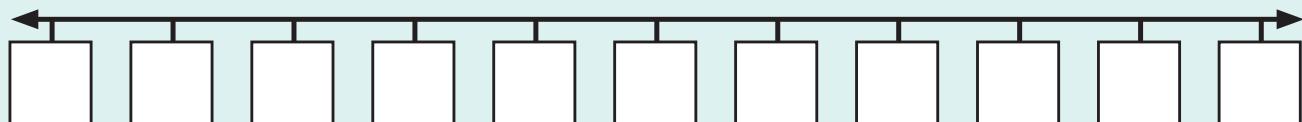
151 yi ta va yini? \_\_\_\_\_



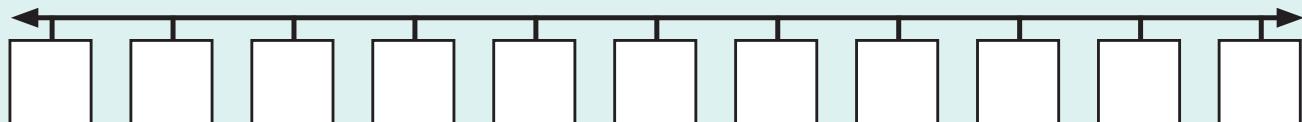
Yisa eka 10 ya le kusuhi.

Dirowa ndzhati wa mintsengo wa wena.

195

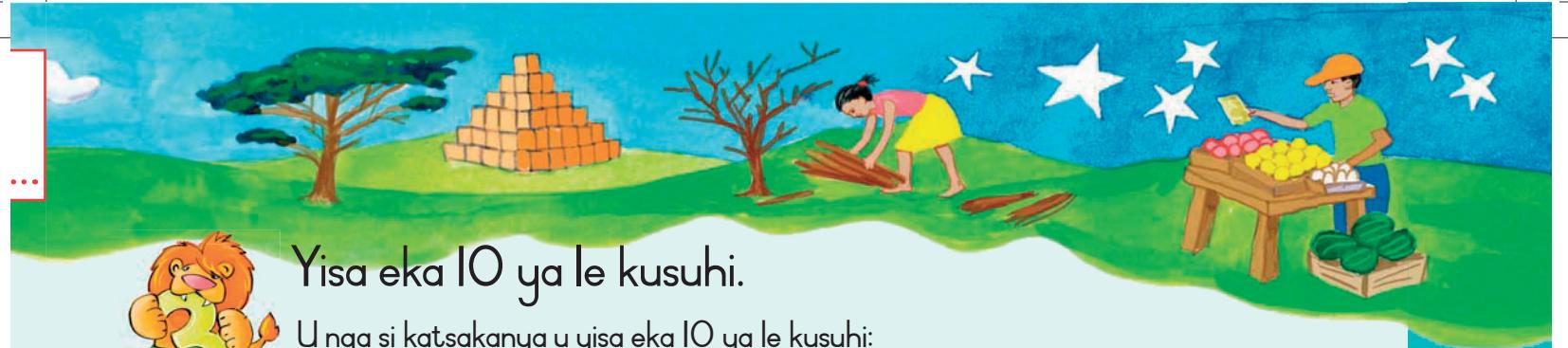


945



100

1 2 3 4 5 6 7 8 9 10



## Yisa eka 10 ya le kusuhi.

U nga si katsakanya u yisa eka 10 ya le kusuhi:

- Tsala leswaku nomboro leyi faneleke ku katsakanyiwa yi le xikarhi ka vukhume byihī byimbirhi.
- Kombeta hi nseve laha nomboro leyi katsakanyiwaka yi nga ta va kona eka ndzhati wa mintsengo.

a. 128 loko yi yisiwa eka khume ra le kusuhi yi ta va 130.



b. 877



c. 901



d. 566



e. 999



## Yisa tinomboro leti landzelaka eka 10 ya le kusuhi.

a. 161  b. 583  c. 415  d. 848  e. 612

f. 230  g. 327  h. 989  i. 534  j. 748



## Xana ndzi fanele ku va na mali ya phepha ya ti RIO tingani?

Mbali na 8 wa vanghana va yena va ya eka siku ra vona ro tiphina exikolweni. Siku leri ri va koxa R4 hi munhu. Mbali u hlayisile mali a tlhela a hakelela vanghana va yena.

U yile eka muchini wa ATM a ya humesa mali. ATM yi nyika ntsena

mali ya phepha. Xana u fanele ku kuma mali ya phepha ya ti-RIO tingani?



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## Ku andzisa no avanyisa: vunlhhanu ku fika eka 100

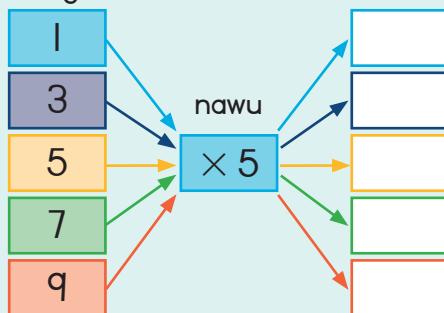
Siku:

Kotara ya 4



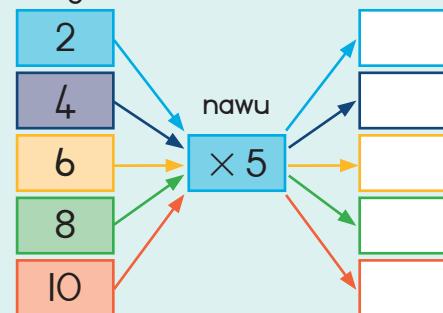
Hetisa dayigiramu ya nkhuluko.

Leswi nghenisiwaka



Leswi kumekaka

Leswi nghenisiwaka



Leswi kumekaka



Hetisa tafula leri nga laha hansi:

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



Khakhuleta:

$$12 \times 5$$

$$= (10 + 2) \times 5$$

$$= 50 + 10$$

$$= 60$$

$$11 \times 5$$

$$13 \times 5$$

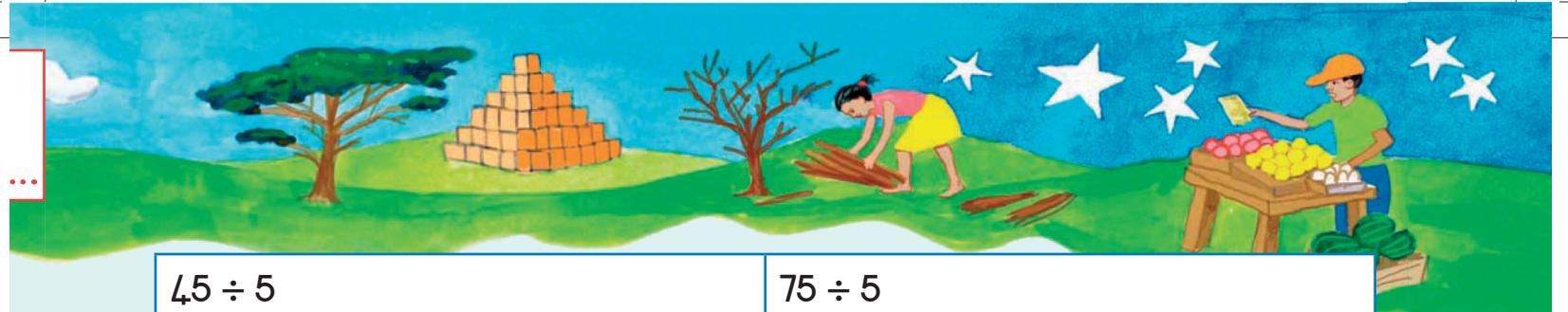
$$= (10 + 3) \times 5$$

$$= 50 + 15$$

$$= 50 + 10 + 5$$

$$= 65$$

$$13 \times 5$$



$$45 \div 5$$

$$= (40 + 5) \div 5$$

$$= (45 \div 5) + (5 \div 5)$$

$$= 8 + 1$$

$$= 9$$

$$75 \div 5$$

$$48 \div 5$$

$$= (40 + 8) \div 5$$

$$= (40 \div 5) + (8 \div 5)$$

$$= 8 + 1 \text{ rem } 3$$

$$= 9 \text{ rem } 3$$

$$13 \div 5$$

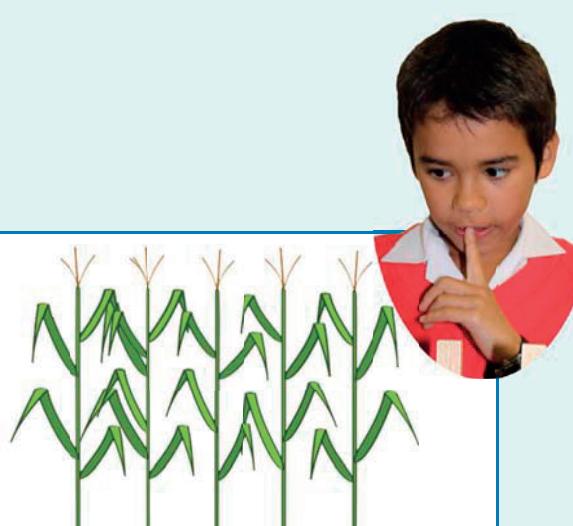


## Ololoxa swiphiqo leswi landzelaka:

Xirhapa xa matsavu xi na 14 wa tinxaxa ta swimilana.

Rixaxa rin'wana na rin'wana ri na nhlayo leyi fanaka ya swimilana.

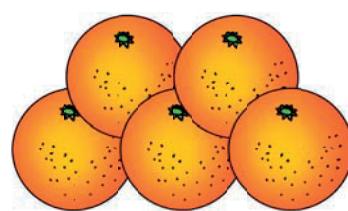
Loko ku ri na ntsengo wa 70 wa swimilana, xana ku na swimilana swingani eka rixaxa rin'wana na rin'wana?



David u xavisa swisakana leswi nga na malamula ya ntihhanu eka xin'wana na xin'wana.

Una 85 wa malamula.

Xana a nga tata swisakana swingani?



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## Tipatironi ta

## tinomboro: vuntlhanu ku fika eka 900

Siku:

Kotara ya 4

A hi hlayeleni hi vuntlhanu ku suka eka 805 ku fika eka 900.

801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900



Xana tinomboro leti nga endzeni ka swirhendzevutana  
ti hi kombisa tipatironi ta njhani?

Leti tsondzeriweke hi xirhendzevutana xa wasi:	Ku hlayela hi _____.
Tsala patironi:	
Leti tsondzeriweke hi xirhendzevutana xa xivunguvungu	Ku hlayela hi _____.
Tsala patironi:	



Khakhuleta.

a. $875 + 5 + 5 + 5 =$ _____	b. $850 - 5 - 5 - 5 =$ _____	c. $845 + 5 + 5 =$ _____
d. $830 - 5 - 5 - 5 =$ _____	e. $886 + 5 =$ _____	f. $846 - 5 - 5 =$ _____
g. $802 + 5 + 5 + 5 =$ _____	h. $801 - 5 =$ _____	i. $853 - 5 - 5 - 5 =$ _____



Bodo ya tinomboro ta 901 ku fika eka 1 000.

901		903	904	905	906		908	909	910
911		913	914	915	916		918	919	920
921		923	924	925	926		928	929	930
931		933	934	935	936		938	939	940
941		943	944	945	946		948	949	950
951		953	954	955	956		958	959	960
961		963	964	965	966		968	969	990
971		973	974	975	976		978	979	990
981		983	984	985	986		988	989	990
991		993	994	995	996		998	999	1 000



Tatisa tinomboro leti siyiweke.

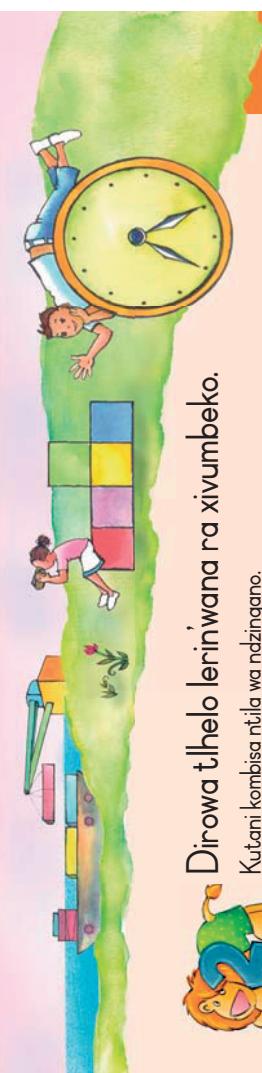
Hi kwihi ku hambana exikarhi ka tinomboro ta rihlaza na ta xivunguvungu eka rixaxa rin'we?



Hetisa tipatironi.

Xana u lemuka patironi?	Yi hlamusel.
963, 968, 973, 978, 983, _____	
944, 949, 954, 959, 964, _____	
921, 926, 931, 936, 941, _____	
956, 951, 946, 941, 936, _____	
982, 987, 992, 997, _____	
927, 922, 917, 912, 907, _____	



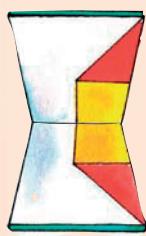


## Swin'wana hi ndzingano

**15**



Xivoni, xivoni



Tlanga na munghana wa wena mi tirhisay yinwe ya  
tisetē ta swiphazamiso swo thayila (leswi ngana  $\frac{1}{4}$  wa swiphemu) ku suka eka Xitsemiwa xa 10.

Mutlangi uniwana na uniwana u na hafu ya swiphemu ( $\frac{7}{8}$  wa swiphemu) swa swivumbeko swa  
xiphazamiso xo thayila. Ku hava xiphemu lexi anaka na xinwana.

Dinowa ntīla exikarhi ka xiphephana. Lowu wu ta va "ntīla wa ntīherieso."

Mutlangi wo sungula u veka xinwe xa swiphemu swa yena ekusahi na ntīla.  
Khumba ntīla kumbe xinwana xa swivumbeko leswi vekiweke.

Mutlangi wa vumbirhi u veka ntīherieso wa xona eka tħeloh lerinwana ra ntīla. Wu faneleku

Yanani emahlweni ku fikela loko swiphemu hinkwaswo swi tirhiswilie.

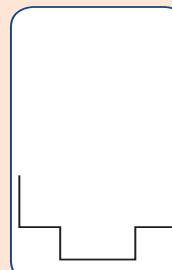
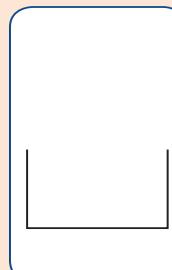
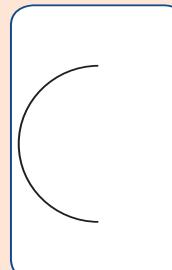
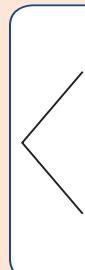
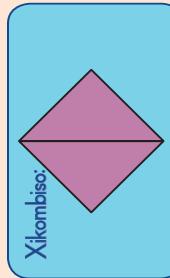
Kotara ja 4

Dirowa tħeloh lerinwana ra xivumbeko.

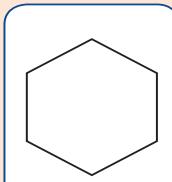
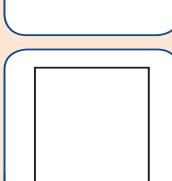
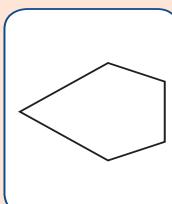
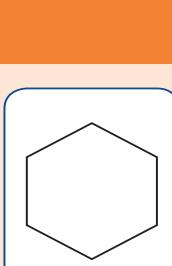
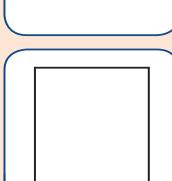
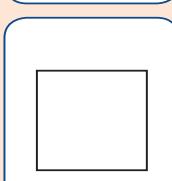
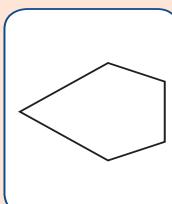
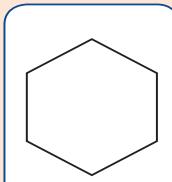
Kutani kombiha ntīla wa ndzingano.



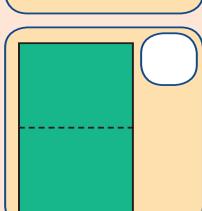
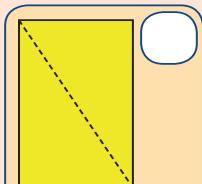
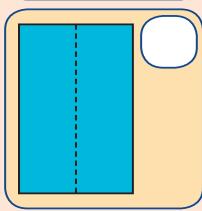
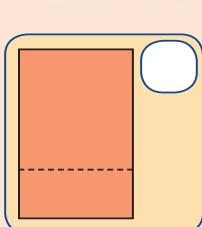
Xikombiso:



Dirowa mintīla ya ndzingano eka leswi landzelaka:



Gwajula swiphemu leswi nga na mintīla ya  
ndzingano leji faneleke.



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

11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

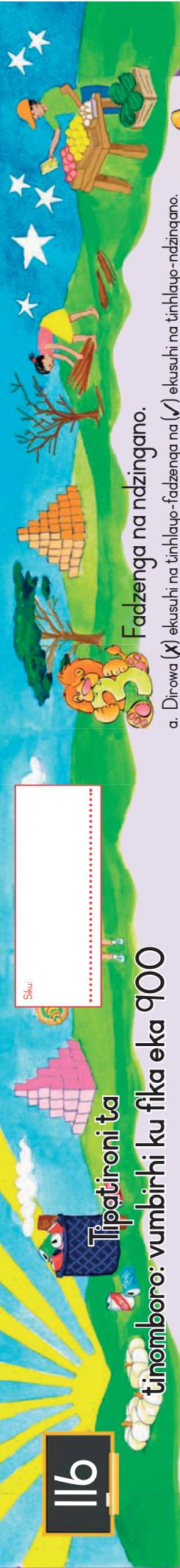
116

## Tipatironi ta tinomboro: vumbirhi ku fika eka 900.

A hi hlayeleni hi vuntħanu ku suka eka 802 ku fika eka 900.

801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900

Kotara ja 4



## Fadzenga na ndzingano.

a. Dirowa (X) ekusuhu na tinhlayo-fadzenga na (✓) ekusuhu na tinhlayo-ndzingano.

908    917    923    916    907    929    912    910    909    922    915  
 908    917    925    931    930    910    909    922    933

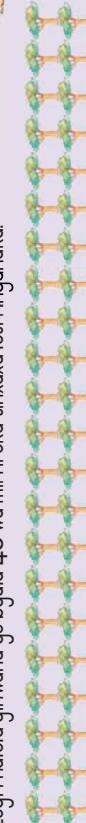
b. Hlalam u ndzingano kumbe fadzenga.

Hlanganisa tinhlayo-fadzenga timbirhi. U kuma nhlayo \_\_\_\_\_.  
 Hlanganisa tinhlayo-fadzenga timbirhi. U kuma nhlayo \_\_\_\_\_.  
 U hlanganisa tinhlayo-fadzenga tinhharhu. U kuma nhlayo \_\_\_\_\_.



## Ku byala mirhi.

Leyin iddella jinwana yo byala 48 wa mirhi eka tinxaxa leti ringanaka.



Hi ngea tsala:  $2 \times 24 = 48$  (2 wa tinxaxa ta 24 wa mirhi = 48) kumbé.  
 $48 \div 2 = 24$  (48 wa mirhi eka 2 wa tinxaxa leti ringanaka swi hi nyika 24 wa mirhi eka rixax).  
 Hlayelha tinxaxana mirhi eka xifaniso xinwana na xinwana lexi ngalaha hansi.  
 Tsala xivulwa xa tinomboro X na ÷ ku yeleranisa.

Xana tinomboro leti nga endzeni ka swirhendzevutana  
ti hi kombisa tipatironi ta njhani?

Leti tsondzeriweke hi xirhendzevutana xa wasi:

Ku hlagħela hi \_\_\_\_\_.

Tsala patironi:

Ku hlagħela hi \_\_\_\_\_.

Tsala patironi:

Ku hlagħela hi \_\_\_\_\_.



Leti tsondzeriweke hi xirhendzevutana xa riħla:

Ku hlagħela hi \_\_\_\_\_.

Tsala patironi:

Ku hlagħela hi \_\_\_\_\_.



a. \_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

b. \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

c. \_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

d. \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

e. \_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

f. \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

g. \_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

h. \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

## Khakhuletā.

a. 872 + 2 + 2 + 2 = \_\_\_\_\_ b. 820 - 2 - 2 - 2 = \_\_\_\_\_ c. 844 + 2 + 2 = \_\_\_\_\_

d. 832 - 2 - 2 - 2 - 2 = \_\_\_\_\_ e. 883 + 2 = \_\_\_\_\_ f. 842 - 2 - 2 = \_\_\_\_\_

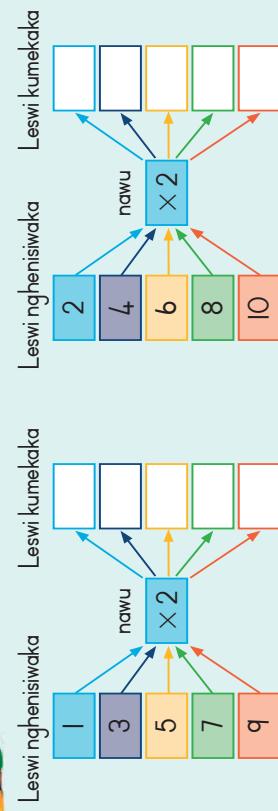
g. 801 + 2 + 2 + 2 + 2 = \_\_\_\_\_ h. 815 - 2 = \_\_\_\_\_ i. 846 - 2 - 2 - 2 = \_\_\_\_\_

Teacher:	Sign:
Date:	

11 12 13 14 15 16 17 18 19 20

## Ku ondizsa no avanyisa: yumbirhi ku fika eka 100

Hetisa dayigirimu ya nkhluklo.



Hetisa tafula leri nga laha hansi:

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

Kotara ja 4

$46 \div 2$ $= (40 + 6) \div 2$ $= (40 \div 2) + (6 \div 2)$ $= 20 + 3$ $= 23$	$74 \div 2$
--	-------------

$47 \div 2$ $= (40 + 7) \div 2$ $= (40 \div 2) + (7 \div 2)$ $= 20 + 3$ $= 23$	$75 \div 2$
--	-------------

**Olooxa swiphiqo leswi landzelaka:**

Xirhapa xa matsavu xi na 32 wa tinxaxata swimilana.  
Rixaxa rin'wana na rin'wana ri na 2 wa swimilana.  
Xana ku na swimilana swingani exirhapani?  
Xirhapa xa matsavu xi na 40 wa tinxaxata swimilana.  
Rixaxa rin'wana na rin'wana ri na nhlajgo lejji fanaka ya swimilana.  
Loko ku ri na 80 wa swimilana, xana ku na swimilana swingani eka rixaxa rin'wana na rin'wana?



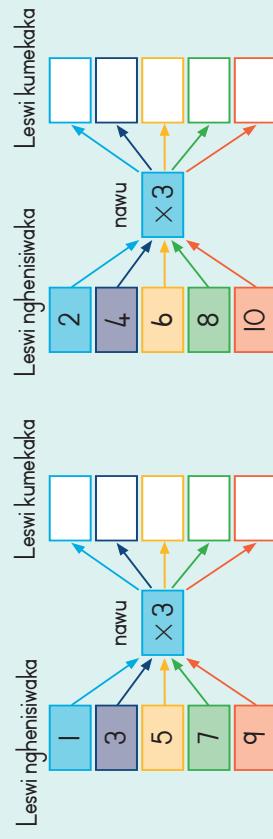
### Khakhuleta:

$12 \times 2$ $= (10 + 2) \times 2$ $= 20 + 4$ $= 24$	$11 \times 2$
$18 \times 2$ $= (10 + 8) \times 2$ $= 20 + 16$ $= 20 + 10 + 6$ $= 36$	$22 \times 2$

<b>11 12 13 14 15 16 17 18 19 20</b>
--------------------------------------

## Ku andzisa no avanyisa: vunharhu ku fika eka 100

Hetisa dayigiramu ya nkulu.



Hetisa tafula leringa ldha hansi:

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

$$63 \div 3$$

$$= (60 + 3) \div 3$$

$$= (60 \div 3) + (3 \div 3)$$

$$= 20 + 1$$

$$= 21$$

$$65 \div 3$$

$$= (60 + 5) \div 3$$

$$= (60 \div 3) + (5 \div 3)$$

$$= 20 + 1$$

$$= 21 \text{ nsalo i2}$$

$$96 \div 3$$

$$= (90 + 6) \div 3$$

$$= (90 \div 3) + (6 \div 3)$$

$$= 30 + 2$$

$$= 32$$



### Khakhuleta:

$$12 \times 3$$

$$= (10 + 2) \times 3$$

$$= 30 + 6$$

$$= 36$$

$$17 \times 3$$

$$= (10 + 7) \times 3$$

$$= 30 + 21$$

$$= 30 + 20 + 1$$

$$= 51$$



### Olooxa swiphiqo leswi landzelaka:

Marlene u na 30 wa swiwi.

Swi andzisa ka khume eka leswi Jacob a ngana swona.

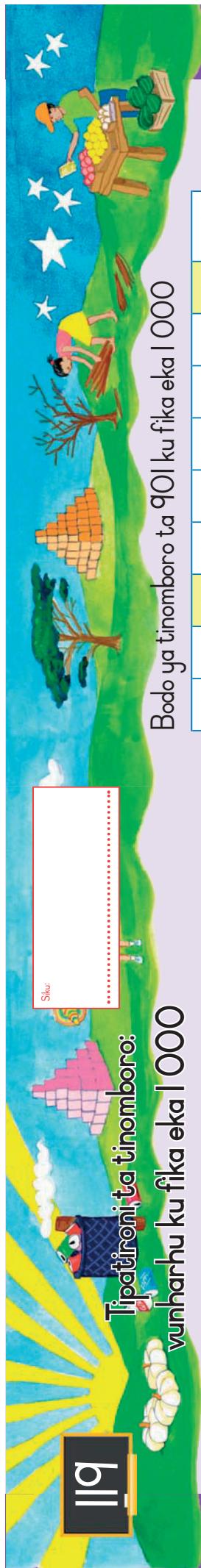
Xana Jacob u na swiwi ts'i swingani?

Xinhapa xa matsavu xi na 29 wa tinxaxa ta swimilana.

Rixaxa rinwana na rinwana rina 3 wa swimilana.

Xana ku na swimilana swingani exirhapani?





## Tipatironi ta tinomboro: vunharhu ku fika eka 1 000

A hi hlayeleni hi vunharhu suka eka 803 ku fika eka 899

801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900

Kotara ya 4



Xana tinomboro leti nga endzeni ka swirhendzevutana  
ti hi kombisa tipatironi ta njhani?

Leti tsondzeriweke hi xirhendzevutana xa xilamula: Ku hlayahela hi \_\_\_\_\_

Tsala patironi: \_\_\_\_\_

Leti tsondzeriweke hi xirhendzevutana xa riħlaza: Ku hlayahela hi \_\_\_\_\_

Tsala patironi: \_\_\_\_\_



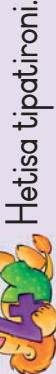
- a.  $873 + 3 + 3 =$  \_\_\_\_\_ b.  $824 - 3 - 3 - 3 =$  \_\_\_\_\_ c.  $84 + 3 + 3 =$  \_\_\_\_\_  
 d.  $837 - 3 - 3 - 3 =$  \_\_\_\_\_ e.  $889 + 3 =$  \_\_\_\_\_ f.  $846 - 3 - 3 =$  \_\_\_\_\_  
 g.  $822 + 3 + 3 + 2 =$  \_\_\_\_\_ h.  $89 - 3 =$  \_\_\_\_\_ i.  $880 - 3 - 3 - 3 =$  \_\_\_\_\_

Bodo ya tinomboro ta 901 ku fika eka 1 000

901	902	903	904	905	906	907	908	909	910
921	922	923	924	925	926	927	928	929	930
931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970
971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	999
901	902	903	904	905	906	907	908	909	1000

Tatisa tinomboro leti sijiweke.

Xalara tibuloko ta tinomboro leti sijiweke hi riħlaza. Xalara tibuloko to basa leti inga na tinomboro hi muhlevo wo tħawwku. Xanu vona patironi ya njhani?



a. Hlanganisa 4 wa vanharhu eka 981.

b. Hlanganisa 5 wa vanharhu eka 973.

c. Susa 4 wa vanharhu eka 975.

d. Susa 3 wa vanharhu eka 947.

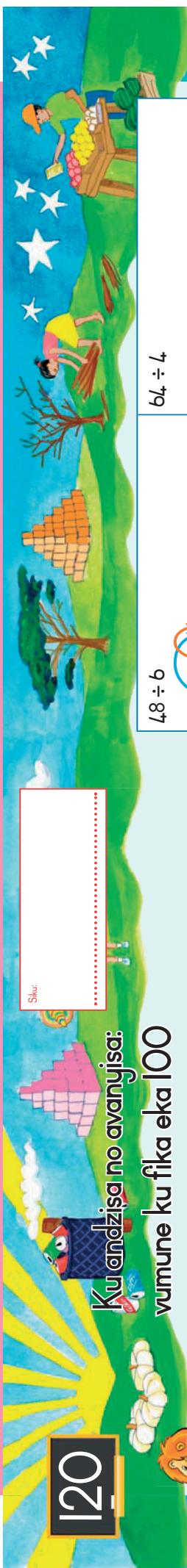
e. Hlanganisa 2 wa vanharhu eka 932.

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

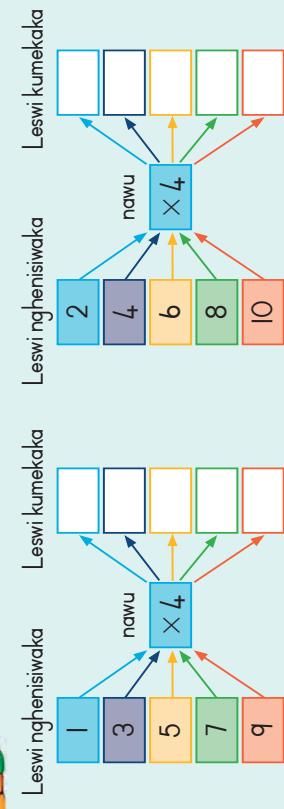
Siku:





## Ku anodziša no avanyisa: vumune ku fika eka 100

Hetisa dayigiramu ya nkuluuko.



Hetisa tafula leru nga laha hansi:

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

Kotara ja 4

$$48 \div 6$$

$$(40 + 8) \div 4$$

$$= 10 + 2$$

$$= 12$$

$$64 \div 4$$

$$(40 \div 4) + (8 \div 4)$$

$$= 10 + 2$$

$$= 12$$

$$45 \div 4$$

$$(40 + 5) \div 4$$

$$= 10 + 1$$

$$= 11$$

$$64 \div 4$$

$$(40 \div 4) + (8 \div 4)$$

$$= 10 + 2$$

$$= 12$$



Olooxa swiphiqo leswi landzelaka:

Tony una 36 wa swiwiši.

U dyo 4 wa swiwiši sikru rinwana na rinwana.

Xana u ta dyo swiwiši eka masiku mangani?

David u xavisa mapifikete lama nga na 4 wa malamula endzeni ka phakete rinwana na rinwana.

Una 88 wa malamula.

Xana u ta tata mapifikete mangani?



$12 \times 4$	$11 \times 4$
$(10 + 2) \times 4$ $= 40 + 8$ $= 48$	$15 \times 4$ $(10 + 3) \times 4$ $= 30 + 12$ $= 30 + 10 + 2$ $= 52$

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

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## Tipatironi ta tinomboro: vumune ku fika eka 1 000

A hi hlayeleni hi vumune ku suka eka 804 ku fika eka 900.

801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900

Kotara ja 4

Xana tinomboro leti nga endzeni ka swirhendzevutana tu  
hi kombisa tipatironi ta njhani?

Leti tsonderiweke hi xirhendzevutana xa rihlaza:

Ku hlayela hi \_\_\_\_\_

Tsala patironi:

Leti tsonderiweke hi xirhendzevutana xa xivunguvungu:

Ku hlayela hi \_\_\_\_\_

Tsala patironi:

Tatisa tinomboro leti sijiweke.

Khalara tibuloko ta tinomboro leti sijiweke hi rihlaza. Khalara tibuloko to basa leti naga na tinomboro hi muhlovo wo tshwuka.

Xana u vona patironi ya njhani?



Hetisa tipatironi.

a. Hlanganisa 4 wa vamune eka 980.

b. Hlanganisa 5 wa vamune eka 971.

c. Susa 4 wa vamune eka 963.

d. Susa 3 wa vamune eka 927.

e. Hlanganisa 2 wa vamune eka 938.

a. $872 + 4 + 4 + 4 =$	b. $821 - 4 - 4 - 4 =$	c. $840 + 4 + 4 =$
d. $836 - 4 - 4 - 4 - 4 =$	e. $885 + 4 =$	f. $845 - 4 - 4 =$
g. $803 + 4 + 4 + 4 =$	h. $813 - 4 =$	i. $847 - 3 - 3 - 3 =$

11 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Bodo ya timomboro ta q01 ku fika eka 1 000.

q01	q02	q03	q04	q05	q06	q07	q08	q09	q10
q11	q12	q13	q14	q15	q16	q17	q18	q19	q20
q21	q22	q23	q24	q25	q26	q27	q28	q29	q30
q31	q32	q33	q34	q35	q36	q37	q38	q39	q40
q41	q42	q43	q44	q45	q46	q47	q48	q49	q50
q51	q52	q53	q54	q55	q56	q57	q58	q59	q60
q61	q62	q63	q64	q65	q66	q67	q68	q69	q70
q71	q72	q73	q74	q75	q76	q77	q78	q79	q80
q81	q82	q83	q84	q85	q86	q87	q88	q89	q90
q91	q92	q93	q94	q95	q96	q97	q98	q99	q100



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## Swiphemu leswi ringanaka swa xihéri

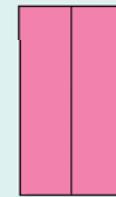
Hafu yin'we, hi ndlëla yini na yihî leju u yi  
tsemaka hayona.

Tsema tijinhlamune eka phepha  
ra mihihohlovo (ku suka  
Xitsemawa xi ||).



Kambisisa tindlëla to hambanan to endla hafu yin'we.

1. Petsa phepha ra yinhamune hi hafu eka thelo ro leha. Tsema phepha hi hafu lha ku petsiweke kona. Xinwana na xinwana xa swiphemu leswi swa ringana hi sayizi. Xiphemu xinwana na xinwana i hafu ( $\frac{1}{2}$ ) ya yinhamune yo sungula.



2. Petsa phepha rinwana ra yinhamune hi hafu ri hingakanya. Tsema phepha hi hafu lha ku petsiweke kona. Xinwana na xinwana xa swiphemu leswi swa ringana hi sayizi. Xiphemu xinwana na xinwana i hafu ya xiphephama xo sungula.



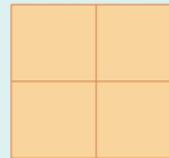
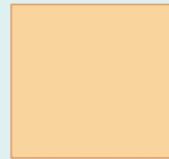
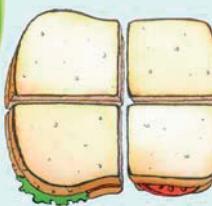
3. Hi yihî ndlëla yinwana yo avanyisa phepha eka swiphemu swimbirhi leswi ringanaka? Lavisisa hi phepha na xikero, kutani u pfampfarhuta ntila waldaunga ta pëtsa no tsema kona.



## Tisangwejjî ta lanci.

Thabo na 3 wa vanghana va yëna va endla tisangwejjî to tolâ ta lanci.  
Va ti tsema hi xa-mune kumbe hi tikotara.

Leswi swi vula leswaku vat ti tsema ti va 4 wa swiphemu leswi ringanaka.  
Yinwana ya tindlëla leti hi ley. Kombisa 3 wa tindlëla tinvana to endla leswi.



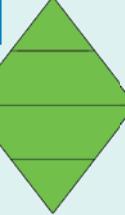
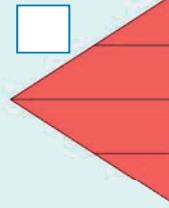
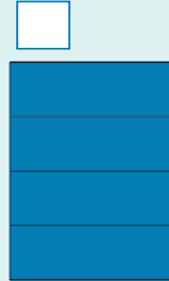
## Ku avanyisa eka tikotara

Kambisisa!  
Ringanisa!  
Lulamisa!

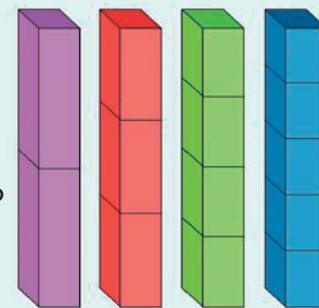


Loko hi tsema xilo eka tikotara ( $\frac{1}{4}$ ), hi xi avanyisa eka 4 wa swiphemu leswi ringanaka.

Gwajula (✓) swifariso leswi kombisaka tikotara.



## Swinwana swiphemu swa xihéri leswi ringanaka.



Loko hi avanyisa xilo eka 2 wa swiphemu leswi ringanaka,  
hi vitana swiphemu leswi tihafu.

Loko hi avanyisa xilo eka 3 wa swiphemu leswi ringanaka,  
hi vitana swiphemu leswi xa-nharhu.

Loko hi avanyisa xilo eka 4 wa swiphemu leswi ringanaka,  
hi vitana swiphemu leswi xa-mune.

Loko hi avanyisa xilo eka 5 wa swiphemu leswi ringanaka,  
hi vitana swiphemu leswi xa-ntihau.

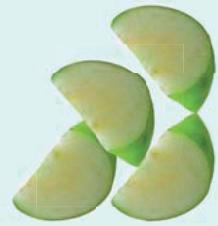
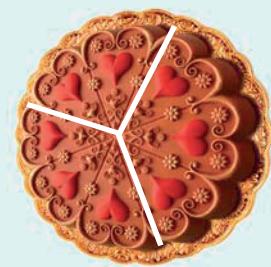
Kotara ja 4



Teacher:  
Signature:  
Date:

## Swiphiqo swa swiphemu

Bula na vanghana va wena hi swiphemu.



Kotara ja 4

Sku:

b. Manana u nyikile unwana na unwana wa vanghana va mina valhumenwe na mina kotara ya apula.

Xana manana u fanele ku kuma maapula mangani?  
Hi thi tinomboro kumbe swiphemu swa xiphiqo lexi?

Rito ra nkoka hi rifi?

Dirowa xifaniso.



Olooxa swiphiqo leswi landzelaka hi ku hlamula  
swivutiso no dirowa swifaniso.

a. Mudzaberi wa netibolo unyika mutlangi unwana na unwana hafu ya lamula. Kuna 14 wa vatlangi.  
Xana u fanele ku kuma malamula mangani?

Xivutiso hi xih?

Xana tinomboro kumbe swiphemu eka xiphiqo hi swih?

Rito ra nkoka hi rifi?

Dirowa xifaniso.

Rito ra nkoka i intoleringga  
ta ndzi pifano ku hlawa la  
murieli lama faneleke.



Nhlamulo hi yih?

Nhlamulo hi yih?

0 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 11 12 13 14 15 16 17 18 19 20

123 12 13 14 15 16 17 18 19 20



123 12 13 14 15 16 17 18 19 20



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Kotara ja 4

## Swilo swa 3 wa matthelo

Languta swifaniso.  
Hi wihintlawa lowu kombisaka tibolo, tisilindara na mabokisi?



Kuma swifaniso swimbirhi swa xin'wana na xin'wana kutani u swi  
namanheta laha hansi.



\_\_\_\_\_

\_\_\_\_\_

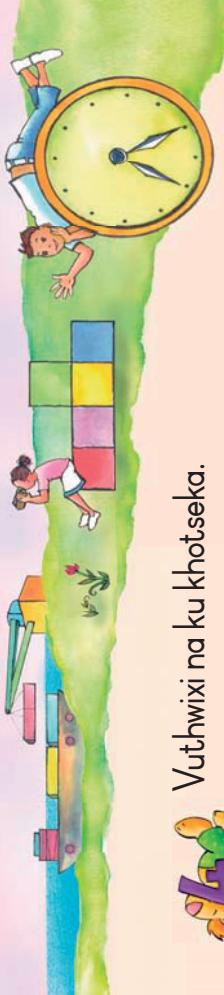
Nkhwatihata nhlamulo leyi faneleke.

- Tamatisi ri na xivumbeko xa bolo/bokisi/silindara.
- Nghilazi yo nwa hi yona yi na xivumbeko xa bolo/bokisi/silindara.
- Buku yi na xivumbeko xa bolo/bokisi/silindara.



Sku:

Vuthwixi na ku khotsuka.  
Swilo swin'wana swo tiya swi na vuandalo buya xiphopherhele.  
Swin'wana swi na vuandalo bujo khotsuka.




Silindara yi na tinghohe timbirhi ta xiphopherhele na ngoho yin'we ya njikwa.

Khoni yi ma ngaho yin'we ya xiphopherhele na ngoho yin'we ya njikwa.

Xirhendzevutana xi na ku khotsuka ematthelo hinkwawo.

## Ku khunguluka



Ehleketa hi ndlela leyi silindara, khoni kumbe xirhendzevutana swi nga khungulukaka hayona.

Eka 3 wa swilo lesvi, hi xhi lex:

- nga swi kotiki ku khunguluka xi fika ekule?
- nga khungulukaka ntsema hi ntla wo thwixama?
- nga khungulukelaka eka tlhelo rin'wana na rin'wana?

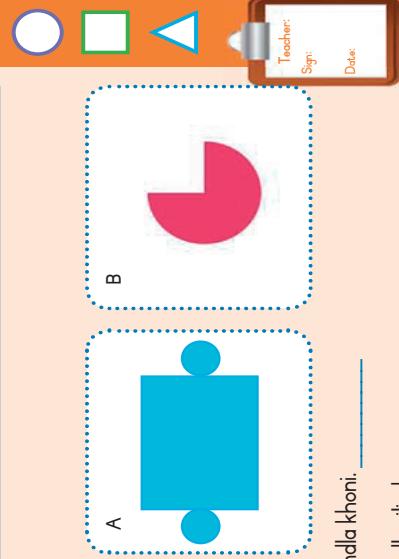
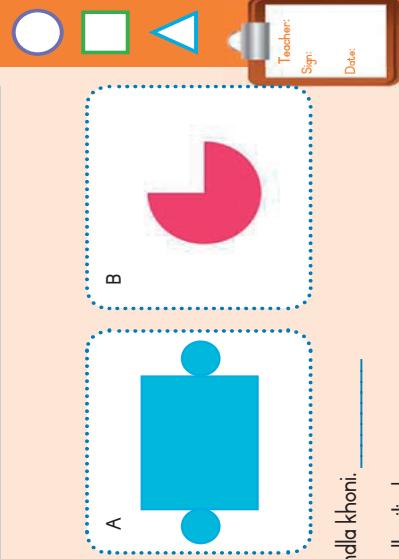
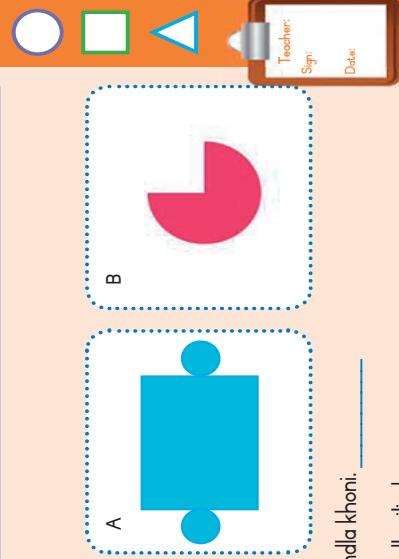


## Nete i yini?

Xivumbeko xa xiphopherhele lexi  
petsekaka ku kotaku endla xivumbeko  
xo tiya xi vitaniwa nete.

Tsala letere ra nete leyi nga petsekaka ku endla khoni.

Tsala letere ra nete leyi nga petsekaka ku endla silindara.



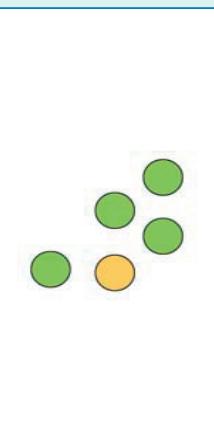
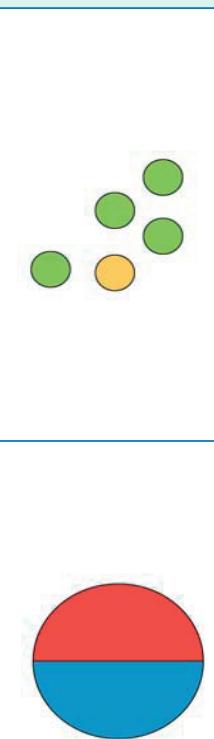
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

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## Swiphemu swin'wana

Vula mavito ya swiphemu.

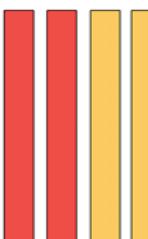
Tsala xiphemu xa swifaniso leswi nga laha hansi.



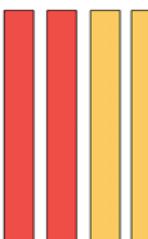
a. I xiphemu muni lexi nga xo ts'hwuka? \_\_\_\_\_



b. I xiphemu muni lexi nga xa riħlaza? \_\_\_\_\_



c. I xiphemu muni lexi nga xa wasi? \_\_\_\_\_



d. I xiphemu muni lexi nga xa xi'shopana? \_\_\_\_\_



### Hlamula swivutiso.

a. Siżwie u na swiphemu swa chokleti swa mune. U nyika munghana wa yena xiħwe.

Xana i xiphemu muni xa chokleti lexi a salkek na xona? \_\_\_\_\_

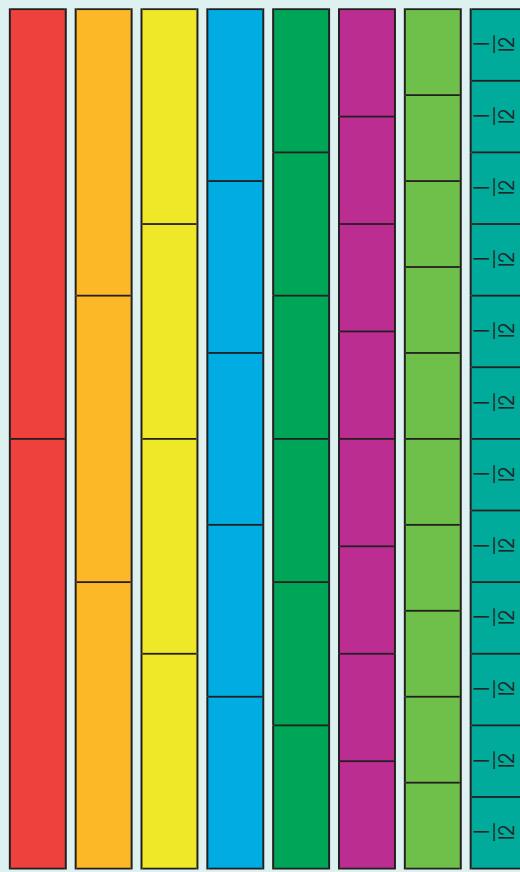
b. Yasmin u na malamula mambirhi. U avelana na Ann.

Xana u salen na xiphemu muni? \_\_\_\_\_

c. Maria u xava 5 wa switina swa chokleti. Utivekela l-xitina, u nyika Mahomed 2 wa switina a tħelha a nyika buti wa yena 2 wa swona. Xana Maria u tiverkele xiphemu muni?

Kotara ja 4

Khumbi ra swiphemu.



Rixaxa riħwana na riħwana ri avanjiwise eka swiphemu leswi ringandka. Rixaxa ra leħansri avanjiwise eka xa-khumembirhi ( $\frac{1}{12}$ ). Lebula tinxaxa letinwana hi xiphemu lexi faneleke. Tidhera rhula ya wena kumbe makumu yo thixxama ja phepha ku kuma leswaku hi swihi swiphemu leswi ringandka, no ku pfunu ku hlamlu swivutiso leswi.

Ku suka eka khumbi ra swiphemu, kuma tindla hinkwadto to endla:

a. hafu yinwe $\frac{1}{2}$	_____
b. xheri ()	_____
c. nharhu-xa-mune $\frac{3}{4}$	_____

**Kambisais!**  
Ringonisa!  
Lulamsa!

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

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Kotara ja 4

Lava mihanganiso.



## Ku endla mitlawa na ku avela kunwana

Siku

- a. Ephatuni 25 wa swiwiitsi swa chukela swi aviva exikarhi ka 10 wa vana.  
Ava hi infanelol Dirowa swifaniso kuku pfuna.



$30 \div 3 =$ _____	$15 \div 3 =$ _____	$60 \div 3 =$ _____	$600 \div 3 =$ _____
$150 \div 3 =$ _____	$24 \div 4 =$ _____	$24 \div 8 =$ _____	$240 \div 4 =$ _____
$120 \div 4 =$ _____	$12 \div 4 =$ _____	$40 \div 10 =$ _____	$40 \div 5 =$ _____
$400 \div 10 =$ _____	$400 \div 5 =$ _____	$200 \div 5 =$ _____	$18 \div 2 =$ _____
$36 \div 2 =$ _____	$72 \div 2 =$ _____	$72 \div 4 =$ _____	$72 \div 8 =$ _____

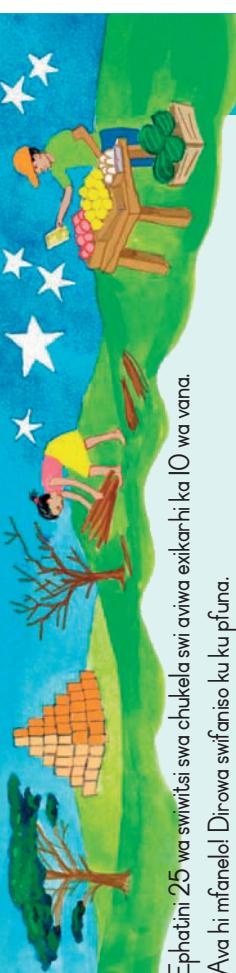


Avani leswi saleke.

Jabuna Lebo va lava ku avelana 13 wa swiphemu swa chokoleti. Xana unwe u ta kuma swiphemu swa swingari?



Va naga koto ku avelana ntseua 12 wa swikwere swa xheri. Uliwana na uniwana u kuma swiphemu swa ntsevu. Xiphemu lexi ngasala xi pheemiwa hi hafu, kutani unwana na uniwana una  $6\frac{1}{2}$  ya swiphemu.



Uliwana na uniwana u kuma \_\_\_\_\_ wa swiwiitsi.

Uliwana na uniwana u kuma _____ wa swiwiitsi.
Uliwana na uniwana u kuma _____ wa swiwiitsi.
Uliwana na uniwana u kuma _____ wa swiwiitsi.
Uliwana na uniwana u kuma _____ wa swiwiitsi.

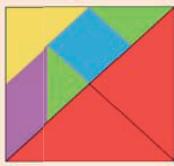
11 12 13 14 15 16 17 18 19 20

## Swiphemu swa tanigiramu



Tanigiramu xi phazamiso xo khale xa machajina lexi endiliwa hi 7 ya swivumbeko swa xiphetherhele, leswi vitaniwaka titani, leswi hlanganiswaka hinkwaso ku vumba swivumbeko swo hambara.

### Swiphemu eka tanigiramu.



Langu ta xiphazamiso xo tanigiramu. Yín'wana na yín'wana ya tinhlanharhu timbirhi letikulu i xiphemu muni xa xheri xa xikwere? (Pinki exfanisweni lexi.)	Loko u pëtsa yín'we ya tinhlanharhu letikulu eka swiphemu swimbinhi leswi ringanaka, xiphemu xinwana na xinwana xi ringana na tinhlanharhu timbirhi letitsongo (rhizaza exfanisweni lexi). Xana yinhlanharhu lejitsono i xiphemu muni xa xikwere xo xheri?	Unga hlanganisa tinhlanharhu timbirhi letitsongo ku endia xikwere lexitsono. Xana xikwere lexitsono i xiphemu muni xa xikwere xa xheri (wasi exfanisweni)?

Kotara ja 4

Ntlangu wa swiphemu swa min'wavelo leji  
nga tekiki tlheloo.



Unwana na unwana u fanel  
ku hoxa kota ja sete ja  
tanigiramu enkwameni.



Tlangu na 4–8 wa vatlangi ni tirhisa swiphemu  
swa nwina swa tanigiramu.

1. Vatlangi va nyketanaku va muaveri.
2. Muaveri u teka xiboho xo xiphemu lexi fanelleke ku ngħenisiwa hi mutlangi unwana na unwana eka switħrisiwa

$\frac{1}{4}$



3. Mutlangi unwana na unwana u vhumbba loko khoyini yi ta wa hi nhlekko kumbe hi nċila kutari muaveri u hoxa khoyini.
4. Muaveri u ava switħrisiwa hi mfanelo exikarhi ka lava vhumbekse swona. (A ngā fanelku xavisa xiphemu xinwe kumbe swo ta'la ku kota ku kuma swiñwana swa nkoka lowu ringanak).

Nazi ta hoxa  
yinhlanharhu yinwe  
leykul.



5. Leswi salaka swi ngā kotelekku ku aviva swi tħasha enkwameni swi yimela ku tkalga loka landzelħaka.
6. Vatlangi hinkwavo va kambissa loko ku ava ku endliwe hi ndella lej fanelleke.



7. Loko mutlangi a kuma xihoxo, muaveri u hakelandzihha wa  $\frac{1}{8}$  wa xikwere xa xheri eka mutlangi loji a ngarhanga a kuma xihoxo.
8. Mutlangi loji a ngariki na swiphemu a ngat teka swiñwana na swiñwana swa leswi sealek enkwameni.

Miħri-xa nhungu xi ringanana  
nwexxa mune. Nazi ngā hoxa  
xikwere na phardellogħi ramu.



9. Ntlangu wu ja emahħeni ku fikela loko mutlangi unwana na unwana a vle muaveri.



### Ku tirhisa tanigiramu.

Tsema titanigiramu timbirhi eka Xitsemini xa 12 kutanu u tsala vito ra xiphemu xinwana na xinwana xa xikwere xa xheri. (Leswi swiphemu swa Tanigiramu ya riżiżo). Tsala vito ra wena endħażukku ka xiphemu xinwana na xinwana leswaku u ta'kota ku kuma swiphemu swa wena loko ntlangu wu herile.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

11 12 13 14 15 16 17 18 19 20

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Kotara ja 4

Tirhisxa xibye xo  
chela xa bodhlela ra  
pulasitiki na khapu.



A wubohekku vula  
tillara kumbu timilitara.

Hiku eheleketka wena xana  
ti khapu tingani leu nga  
tatdaka xibye lek?



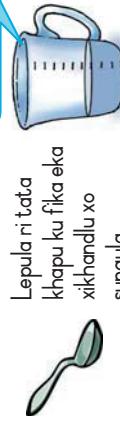
## Ku pima vundzeni

Vundzeni bya khapu 10

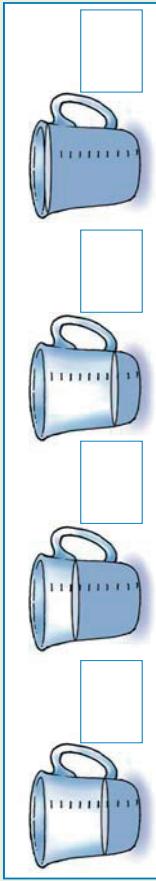
kasi vundzeni bya khapu  
ley taleke 1.



I yini vundzeni bya khapu  
yinwana na yinwana leyj  
taleke?

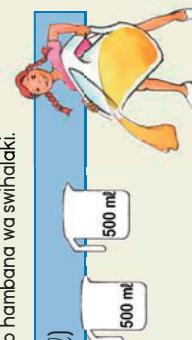


Lepula ri tata  
khapu ku fika eka  
xikhandu xo  
sungula.



## Endla litara.

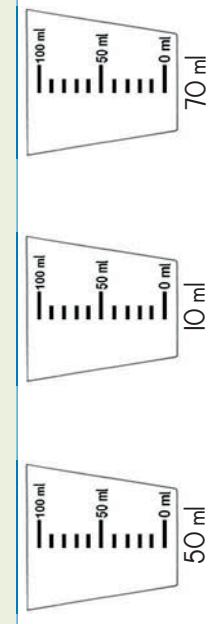
Kuma andlala yo endla litara hi ku turhisanta lo hambaran wa swihalaki.



Xivulwa xa tinomboro:  $500 \text{ ml} + 500 \text{ ml} = 1000 \text{ ml (l)}$



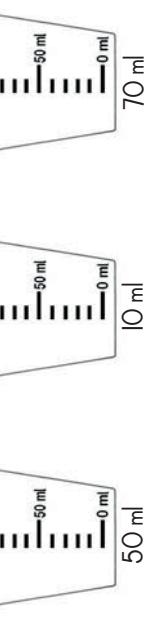
Xivulwa xa tinomboro  
= 1000 ml (l)



## Swihalaki swo tanhi kwhi?

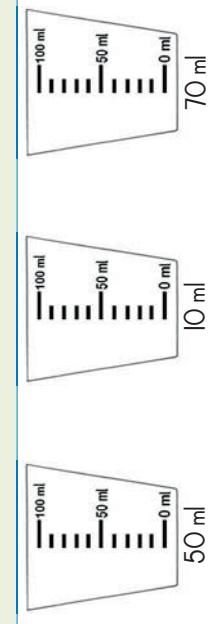
Loko hi tsala mifungho ya metniki, hi siyanndhawu lejutsongo exikantki ka dijtii yo hetelela na  
mfungho. Xikombiso, hi tsala 3 l kungari 3l; 299 g ku ngarri 299g; 15 km kunga ri 15km.

Swahata ti khapu  
ta mirhi ku kombiso  
ntalo ekayinwana  
na yinwana.



## Swihalaki swo tanhi kwhi?

Xivulwa xa tinomboro  
= 1000 ml (l)



## Swihalaki swo tanhi kwhi?



Teacher:  
\_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

## Entlangjari Hinkarhi wa kum



Hinkarhi wa kum. Hinkarhi wa kum. Entlangjari hinkarhi wa kum. Entlangjari hinkarhi wa kum. Entlangjari hinkarhi wa kum.

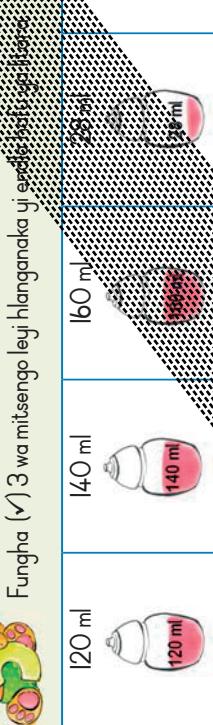
- a. I vatlangi vangani lavanga avelandaka?  
1 litera \_\_\_\_\_ 4 wa tilitara \_\_\_\_\_  
b. Xana ku laveka ja juzi yo tanihii kwih! eka:  
8 wa vatlangi \_\_\_\_\_ 9 wa vatlangi \_\_\_\_\_ 12 wa vatlangi \_\_\_\_\_

## Tilitara na militara (ml)

$$\begin{aligned} 1 \text{ litera} &= 1000 \text{ ml} & \frac{1}{2} \text{ ya litara} &= \text{ ml} & \frac{1}{4} \text{ ya litara} &= \text{ ml} \\ 25 \text{ ml} &= \text{ ya litara} & 50 \text{ ml} &= \text{ ya litara} & \end{aligned}$$



## Endla hafu ya litara



## Masi hafu ya militara

- Ku salé hafu ya militara? Kusale hafu ya militara? Kusale hafu ya militara? Kusale hafu ya militara?
- a. 8 wa vangani hafu ya militara? \_\_\_\_\_ wa militara  
b. 16 wa vangani hafu ya militara? \_\_\_\_\_ wa militara  
c. 12 wa vangani hafu ya militara? \_\_\_\_\_ wa militara

2

3

4

5

6

7

8

9

10

## Bara ja juzi ja Bongi

Eka jeke, Bongi u tirthisa juzi ja juzi. Eka jeke, Bongi u tirthisa juzi ja juzi. Kuma leswaku Bongi u tirthisa juzi ja juzi. Kuma leswaku Bongi u tirthisa juzi ja juzi.

Tijeke	Tikhapu ta juzi	Kotara ja juzi	Tikhapu ta juzi	Tikhapu ta juzi	Tikhapu ta juzi
1					
2					
3					
4					
5					

## Endla litara

500 ml	250 ml	200 ml	100 ml	50 ml
500 ml	250 ml	200 ml	100 ml	50 ml
500 ml	250 ml	200 ml	100 ml	50 ml

Endla litara. Endla litara. Endla litara. Endla litara. Endla litara.

- a. \_\_\_\_\_ × 200 ml c. \_\_\_\_\_ × 250 ml  
e. \_\_\_\_\_ × 50 ml

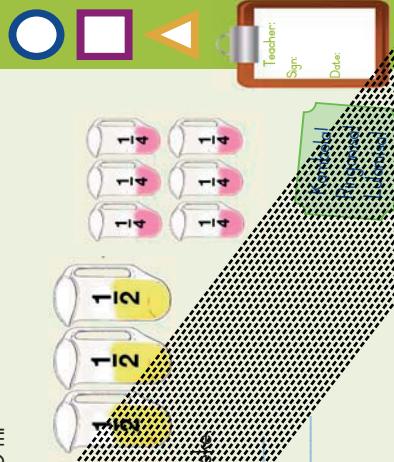


## Loko xinkhubuya ja hene

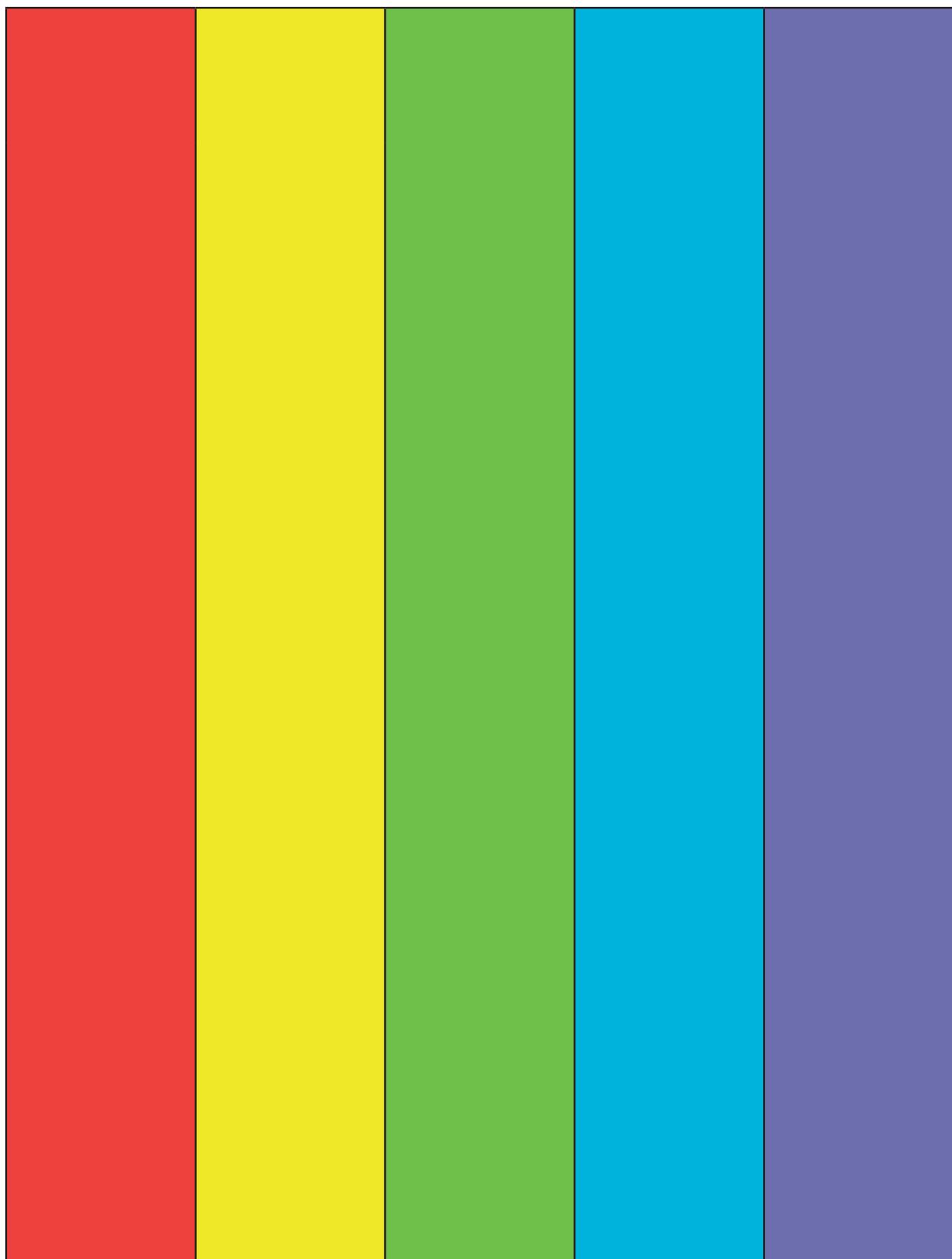


Xinkhubuya xa Thandi xi hene. Ku na swo mabu. Ku salé juzi ja hafu. Thandi u Hanganisa tijuzi letimbirhi. Xana a ngatata tijeket tingan?

11 12 13 14 15 16 17 18 19 20

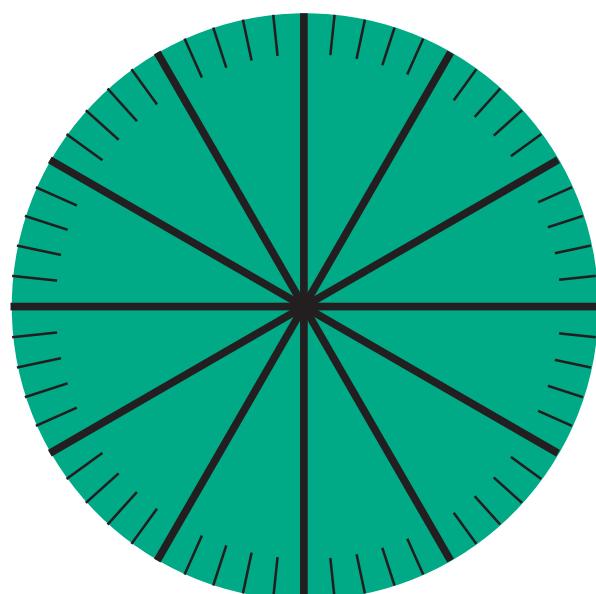
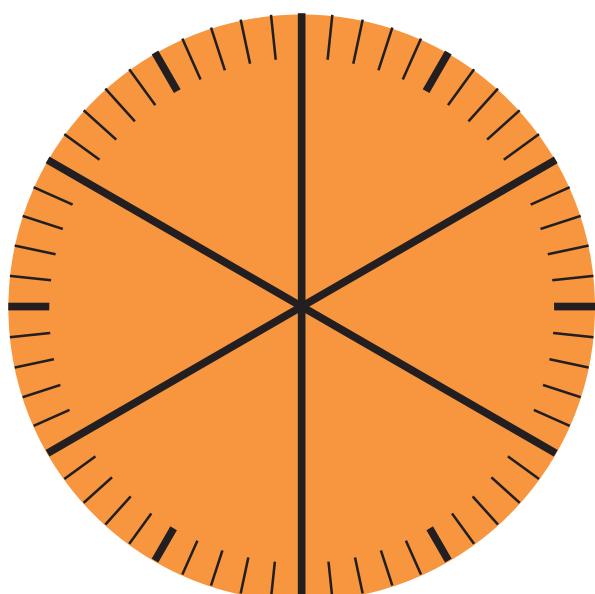
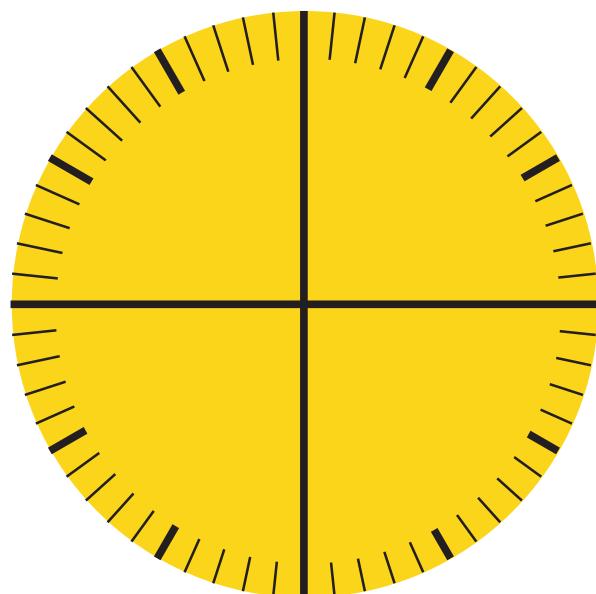
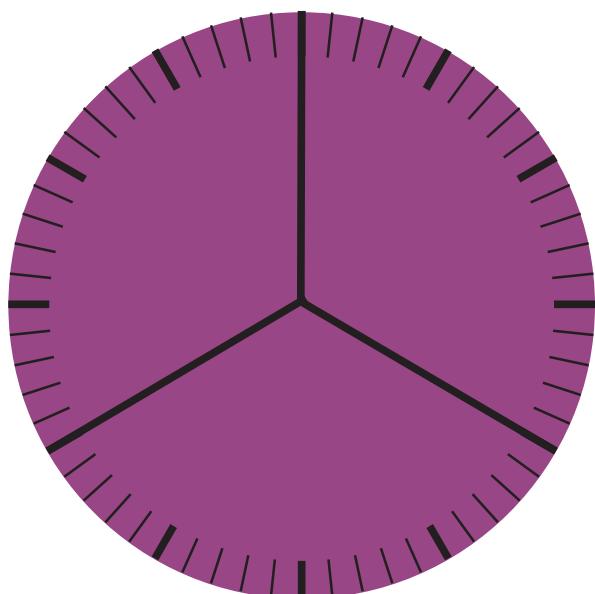
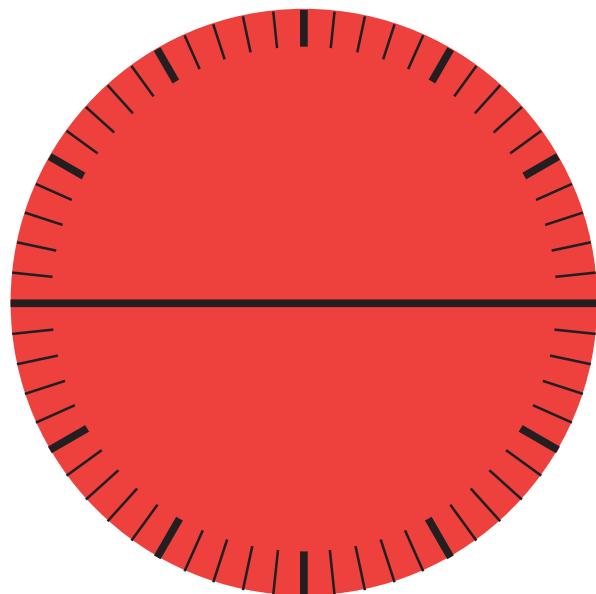
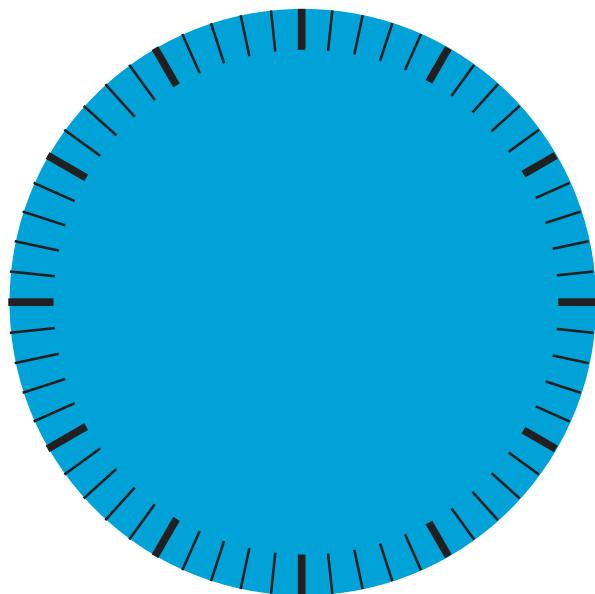


## Xitsemiwa xa 5



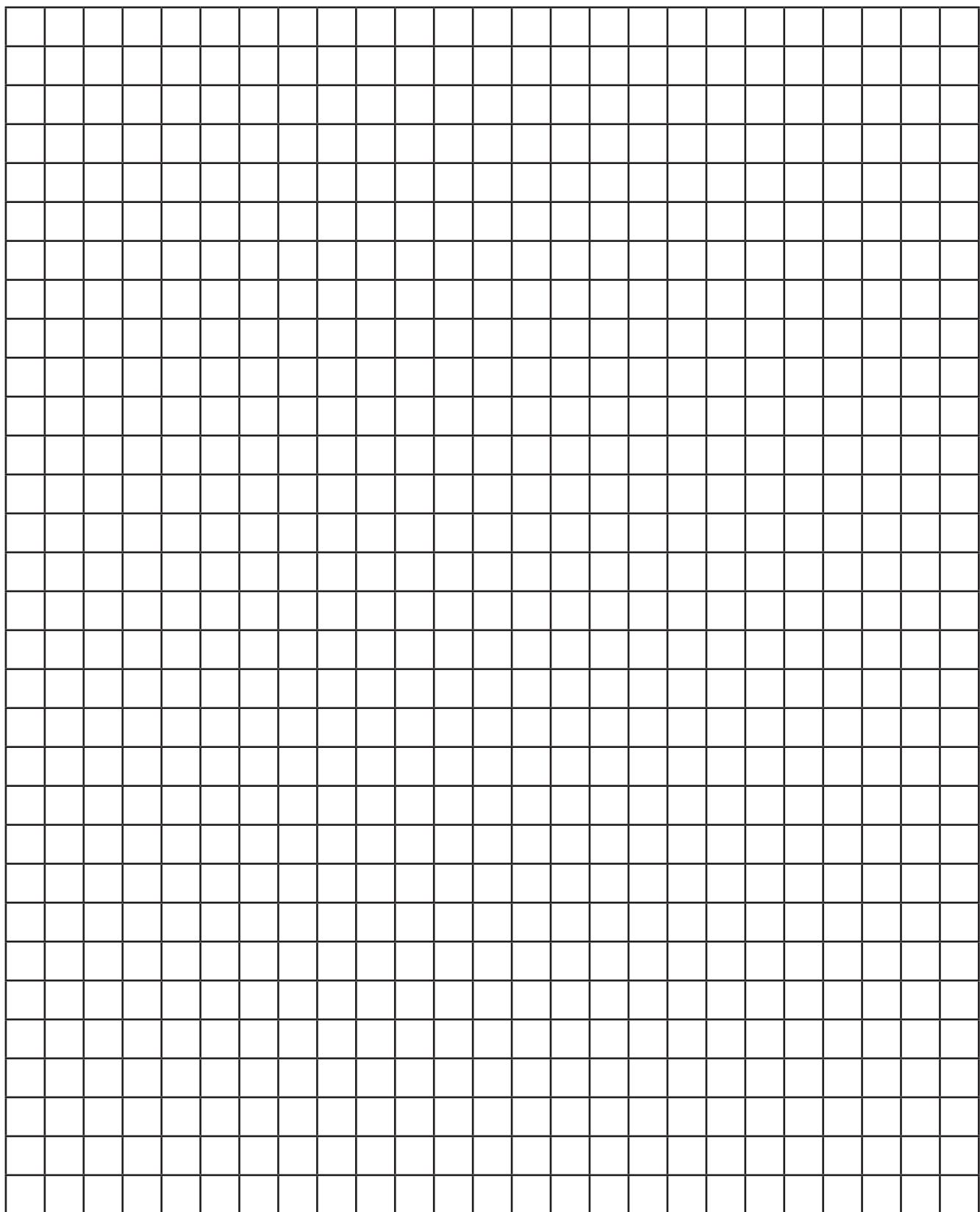


## Xitsemiwa xa 6





# Xitsemiwa xa 7





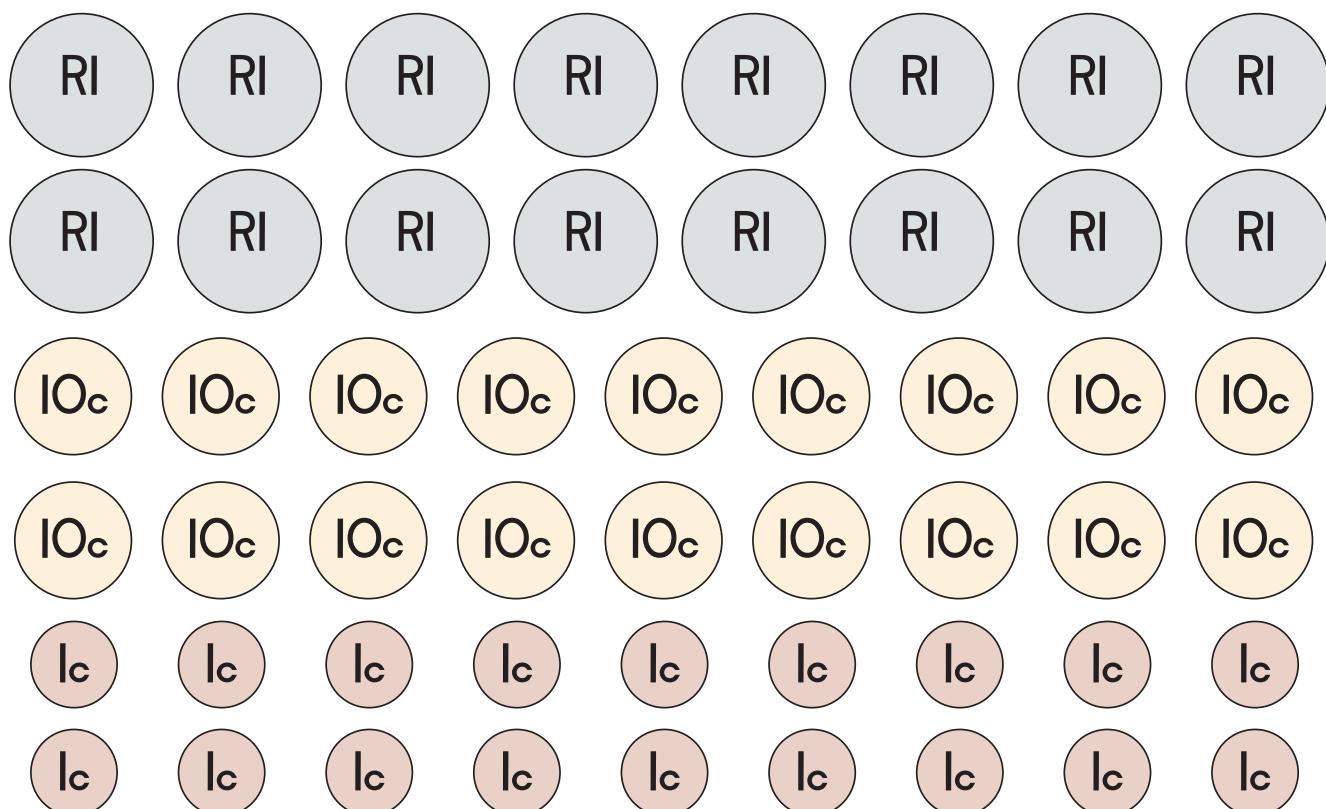
## Xitsemiwa xa 8

Ic	
IOc	
Ri	
RIO	
RIOO	



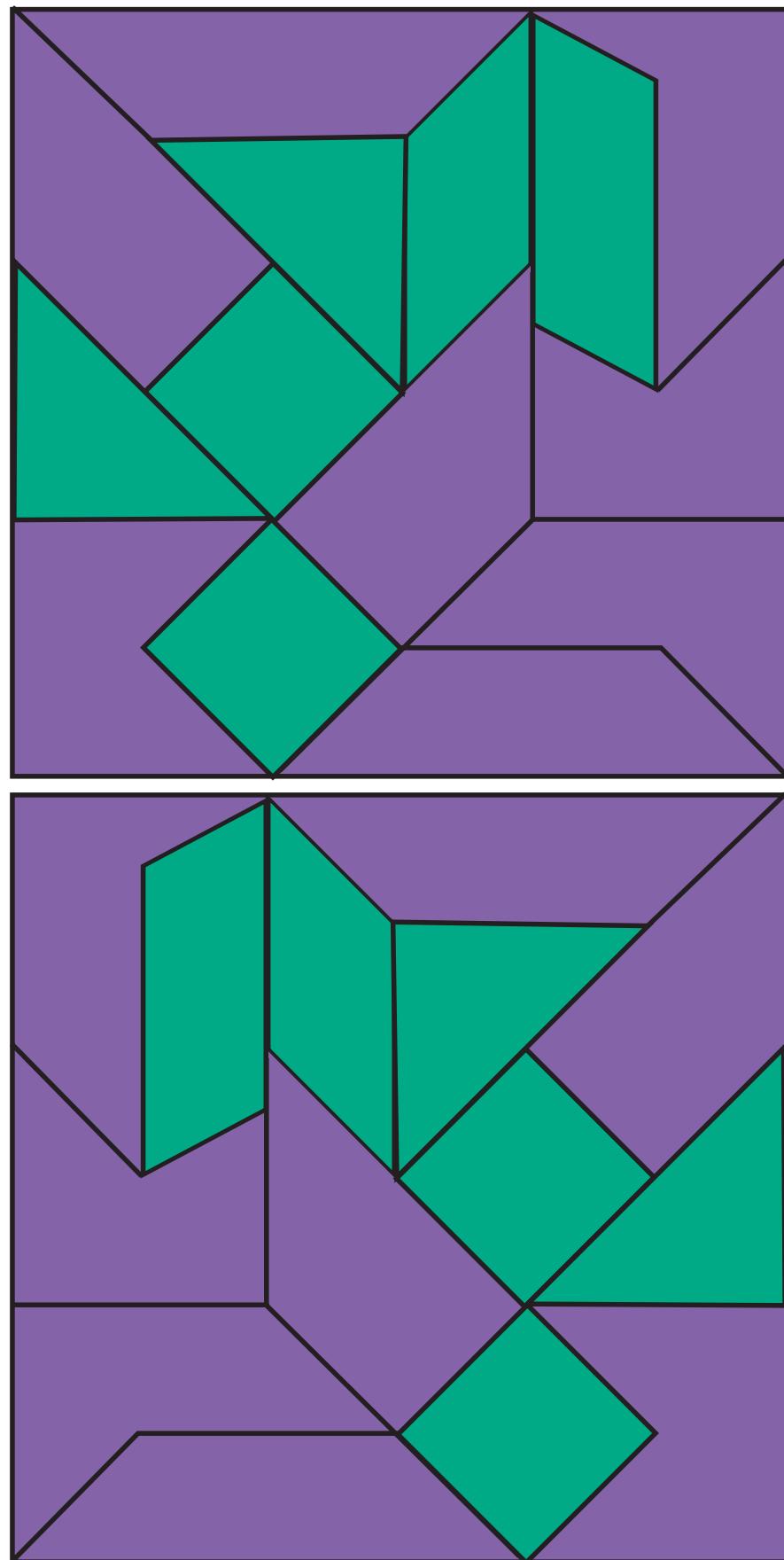
# Xitsemiwa xa 9

RIOO	RIOO	RIOO	RIOO
RIOO	RIOO	RIOO	RIOO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO



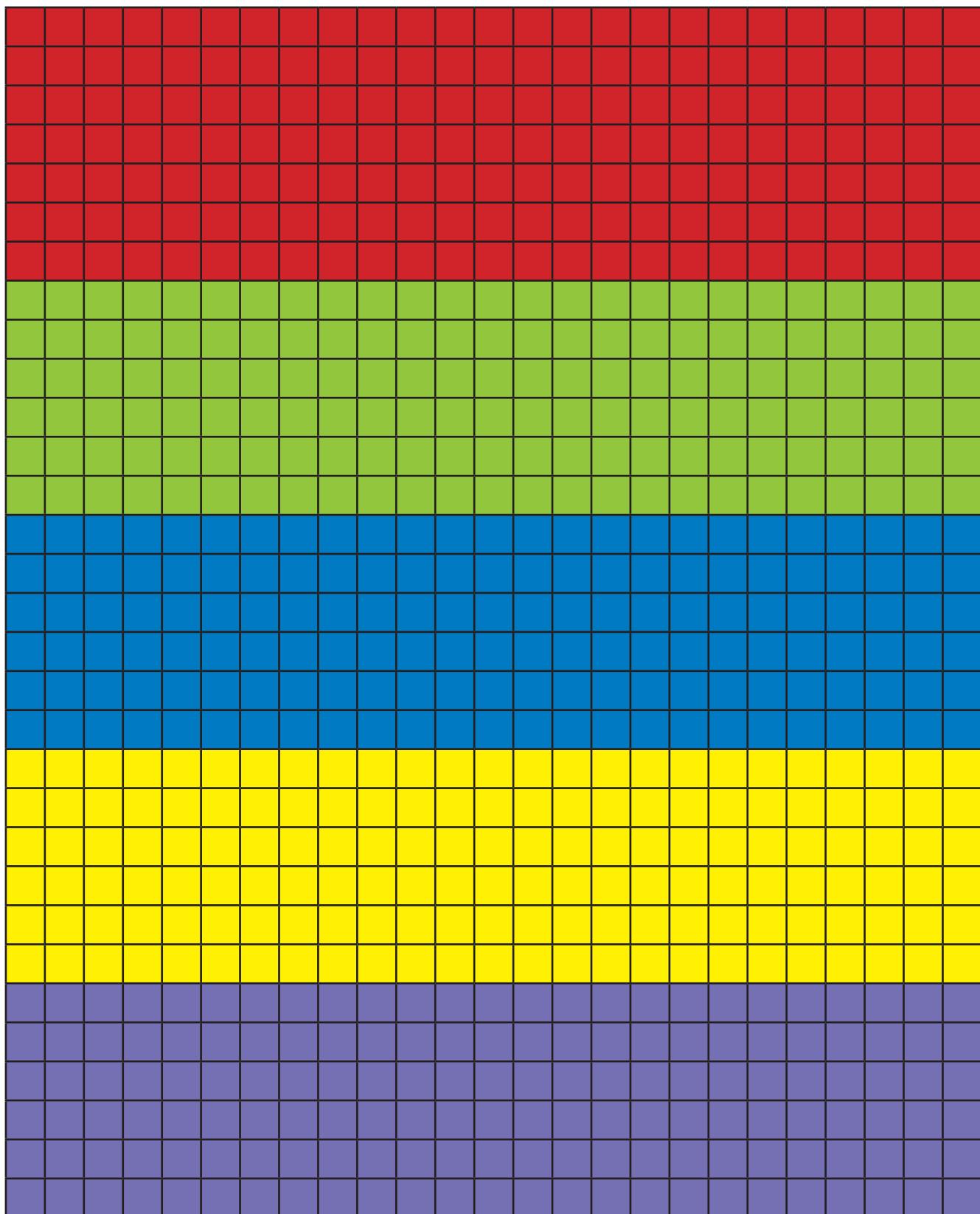


# Xitsemiwa xa 10





## Cut-out II





## Cut-out I2

