

MATHEMATICS IN XITSONGA

Buku ya 2
Tikotara ta
3 & 4



Vito:	Tlilasi:
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basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

MATHEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 2

ISBN 978-1-4315-0157-1

Ku dyondza hi Vumbiwa ra Riphabiliki ra Afrika-Dzonga (1996)

Vumbiwa ra Afrika-Dzonga (1996) ri na milawu ya le henbla ya tiko. Milawu leyi yi le henbla ku tlula na puresidente, yi le henbla ku tlula tihuvo na ku tlula mfumo.

Yi hlamusela ndlela leyi vanhu va tiko va faneleke ku khomana hiyona, timfanelo na vutihlamuleri bya vona eka vanhu van'wana. Vumbiwa ra Tiko ri kona leswaku ri kota ku sirhelela hinkwerhu ka hina sweswi na vana va hina eka minkarhi leyi taka.

Lemuka matimu ya hina.	Hi nga vuyelei swihoxo swa nkarhi lowu nga hundza.	Vumbiwa ra hina ri hi pfuna ku anakanya no aka vumundzuku byo antswa bya vanhu hinkwavo.
------------------------	--	--

Hina, vanhu va Afrika-Dzonga,
Hi lemuka ku kala vululami ka nkarhi lowu hundzeke evuton'wini bya hina;
Hi xixima lava va xanisekeke hikwalaho ko hisekela vululami na ntshunxeko etikweni rerhu;

Hi hlonipha lava va tirheku aka no hluvukisa tiko ra hina; naswona
Hi tsheomba leswaku Afrika-Dzonga i ra hinkwavo lava tshamaka eka rona, hi hlanganile hi ku hambana-hambana ka hina.

Kutani, hi ku tirhisa vayimeri va hina lava hi tihlawuleleke vona hi ntshunxekile, hi amukela Vumbiwa leri tanihu nawu lowu kulukumba wa Riphabiliki ku endlela—

Ku lulamisa ku hambanisiwa ka nkarhi lowu hundzeke no vumba rixaka leri simekiweke ehenbla ka masungulo ya swipimelo swa xidemokhirasi, vululami exikarhi ka vanhu na timfanelo ta ximunhu ta masungulo;

Ku simeka masungulo ya rixaka ra xidemokhirasi leri vekaka swilo erivaleni laha eka rona mfumo wu simekiweke ehenbla ka ku navela ka vanhu naswona vaatiko hinkwavo va sirheleriwile hi ku ringana hi nawu;

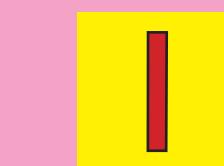
Ku antswisa xiymo xa vutomi bya vaaka-tiko hinkwavo no humesela erivaleni vuswikoti bya munhu un'wana na un'wana na;

Ku aka Afrika-Dzonga leri vumbaneke ra xidemokhirasi leri ri kotaka ku teka vutshamo bya rona lebyi faneleke tanihu tiko leri tiyimeleke endyangwini wa tinjaka.

Lava timfanelo ta wena tanihu Muafrika-Dzonga u tlhela u va na vutihlamuleri byo sirhelela timfanelo ta vanhu van'wana.	Tiva Nawumbisi wa timfanelo ta wena & Nawumbisi wa Vutihlamuleri.
---	---

Xikwembu a xi sirhelele vanhu va hina.
Nkosi Sikele' iAfrika. Morena boloka setjhaba sa heso.
God seën Suid-Afrika. God bless South Africa.
Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.

1



2

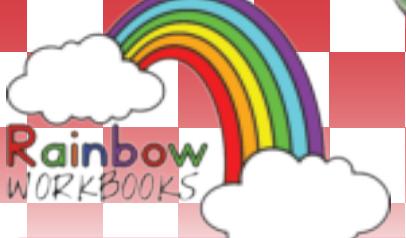


4

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MATHEMATICS IN XITSONGA

GRADE 3 – BOOK 2

TERMS 3 & 4

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THIS BOOK MAY NOT BE SOLD.

7th Edition

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*Manana Angie
Motshikga, Holobye wa
Dyondzo ya Masungulo*



*Nkulukumba Enver Suryt,
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 Motshikga na Xandla xa Holobye wa Dyondzo ya Masungulo. Nkulukumba Enver Suryt.

Tibuku to tirhela ta Rainbow ti vumba xiyenge xin'wana xa nt lava wa migingiriko ya Ndzwalo ya Dyondzo ya Masungulo leyi kongomisiweke eka ku antswisa matirhelo ya vadyondzi va Vaafrida-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 Ndzwalo 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 migingiriko ya vona yo dyondzisa ya masiku hinkwawo no tiyisisa leswaku vadyondzi va vona va kota ku hetu kharikhulamu. Hi tiyisise leswaku hi letela mudyondzisi eka nghingiriko wun'wana na wun'wana hi ku katsa mifungho leyi kombisaka leswi mudyondzisi a faneleke ku endla swona.

Hi ni ntshembo wa leswaku vana va ta tiphina no tsakela ku tirha migingiriko 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

Buku leyi i 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.

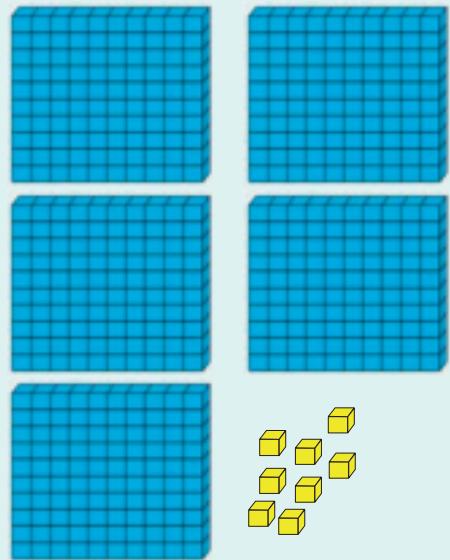
548; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 570

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

515; 520; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____



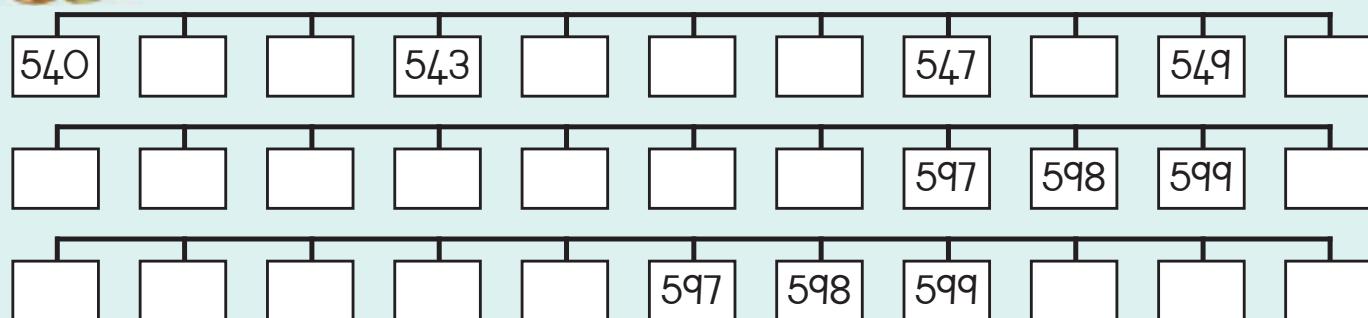
Xana u hlayele tibuloko tingani?



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



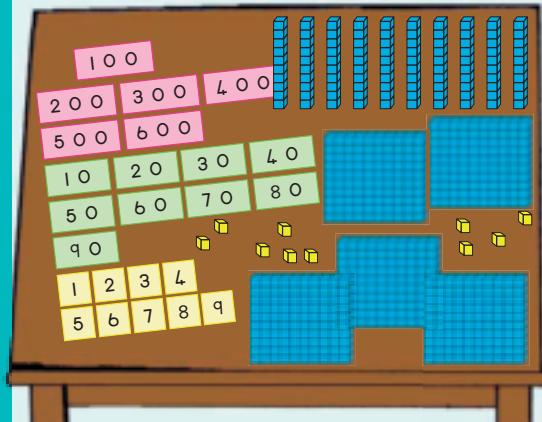
Teacher:
Sign:
Date:

66

Tinomboro tin'wana ta 500 ku fika eka 600

Siku:

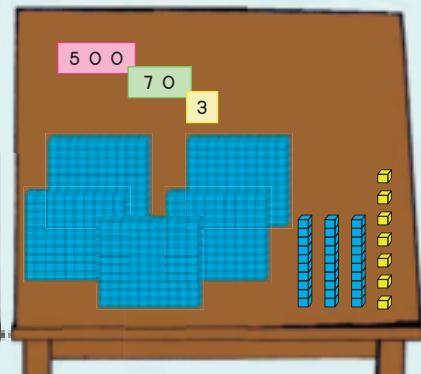
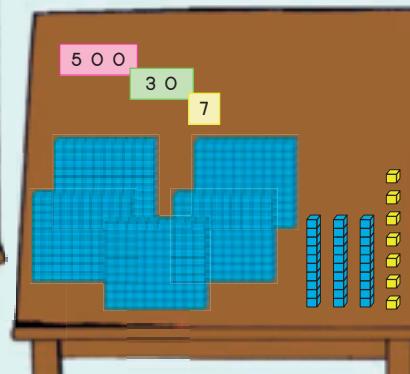
Kotara ya 3



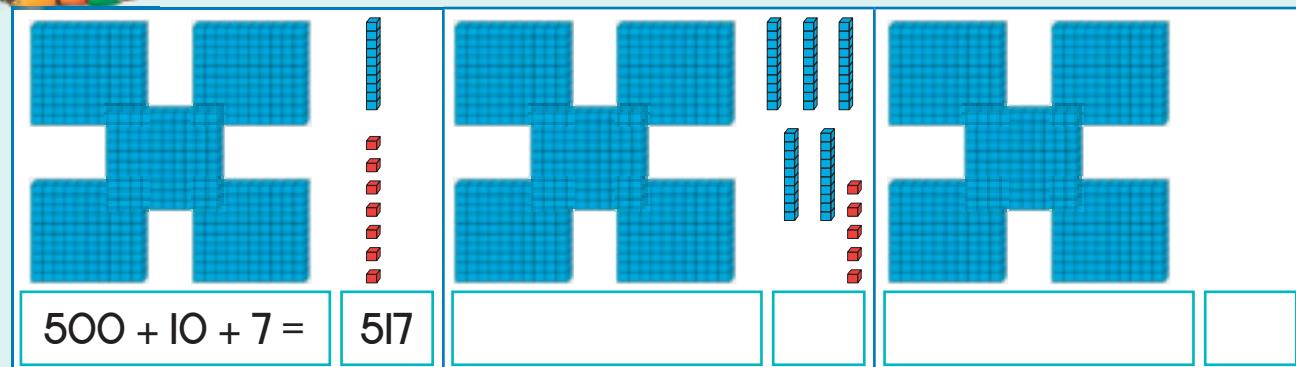
Peter u na makhadi ya xiyimela-nkoka
lama landzelaka na tibuloko ta beyisi
ya khume.

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

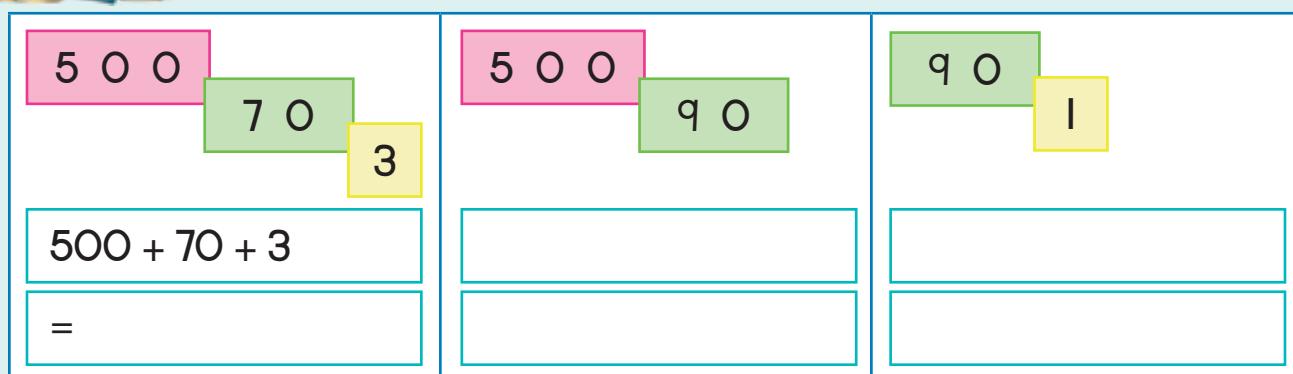
Leswi hi swona leswi Aakar
a swi kombiseke. Hi xihi xihoxo
lexi a xi endleke?



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.

Ku na tidijiti ta khume.

0 1 2 3 4 5 6 7 8 9

Hi ti veka kun'we ku vumba tinomboro.

495	
508	
594	
549	
602	

Xikombiso: 517

5 0 0

1 0

7

5 1 7

517 500 + 10 + 7



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; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

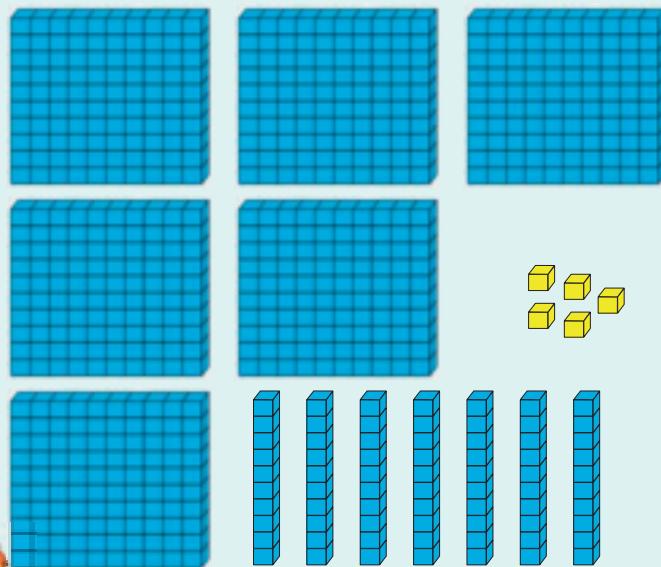
e. Tsala tinomboro hinkwato hi patironi ya vu-2 ku suka eka 611 ku fika eka 633.

611; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 633

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

645; 650; 655; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

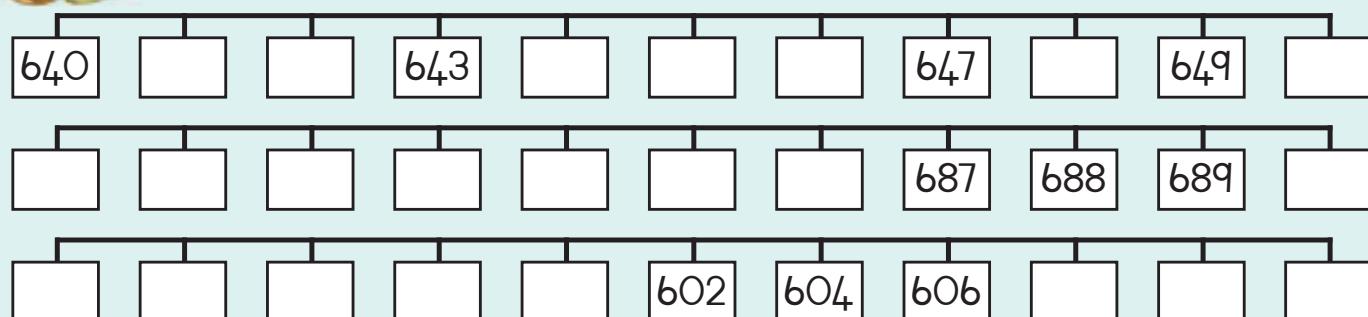
Xana u hlayele tibuloko tingani?



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

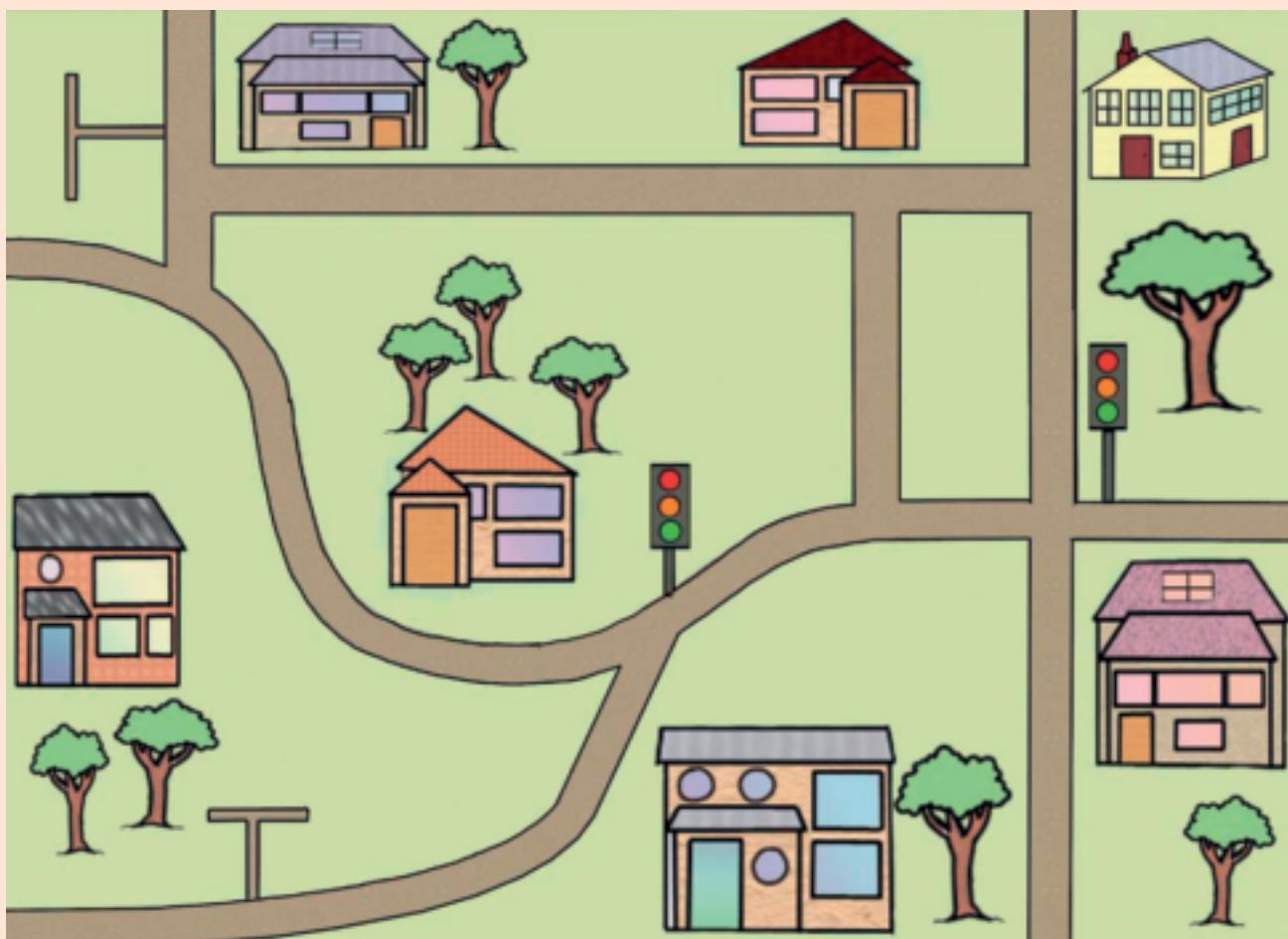


Siku:

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.

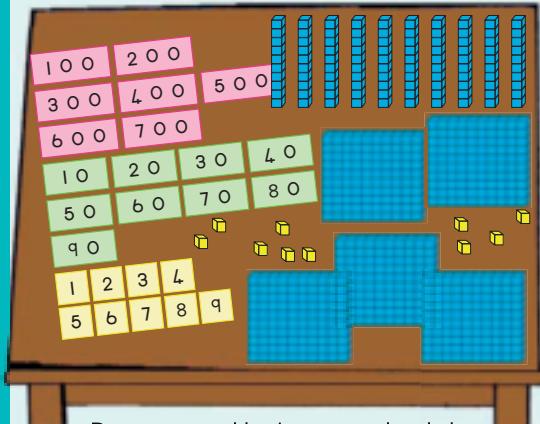


69

Tinomboro tin'wana ta 600 ku fika eka 700

Siku:

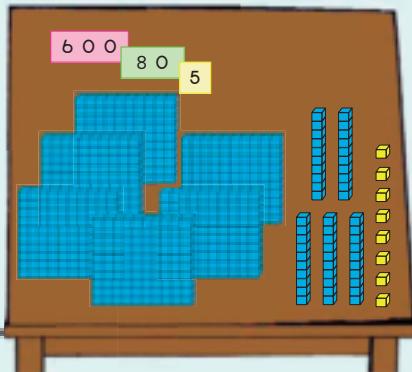
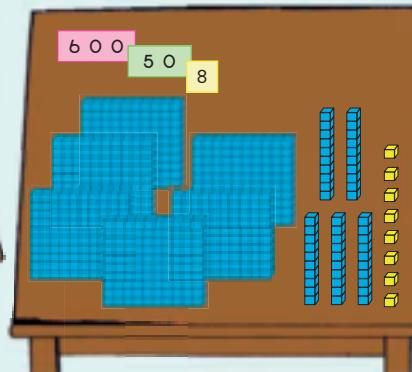
Kotara ya 3



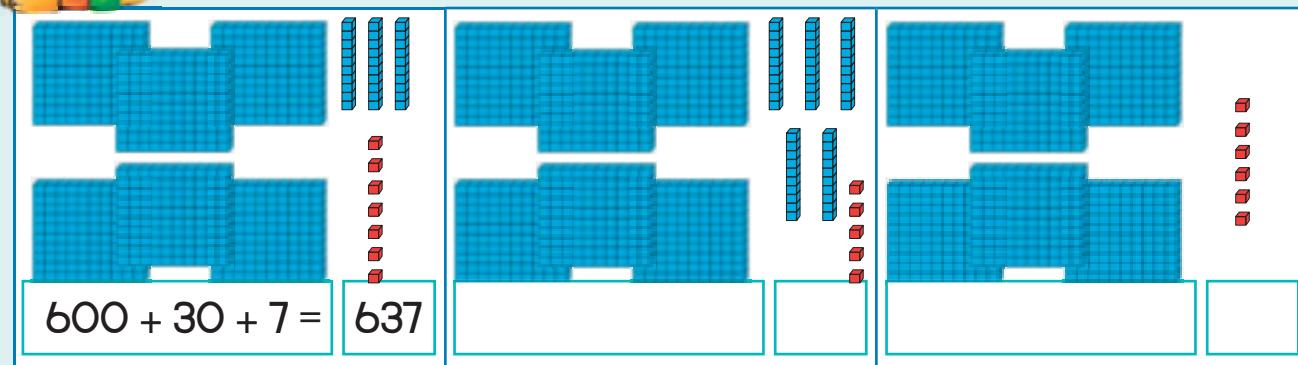
Peter u na makhadi ya xiyimela-nkoka
lama landzelaka na tibuloko ta beyisi
ya khume.

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

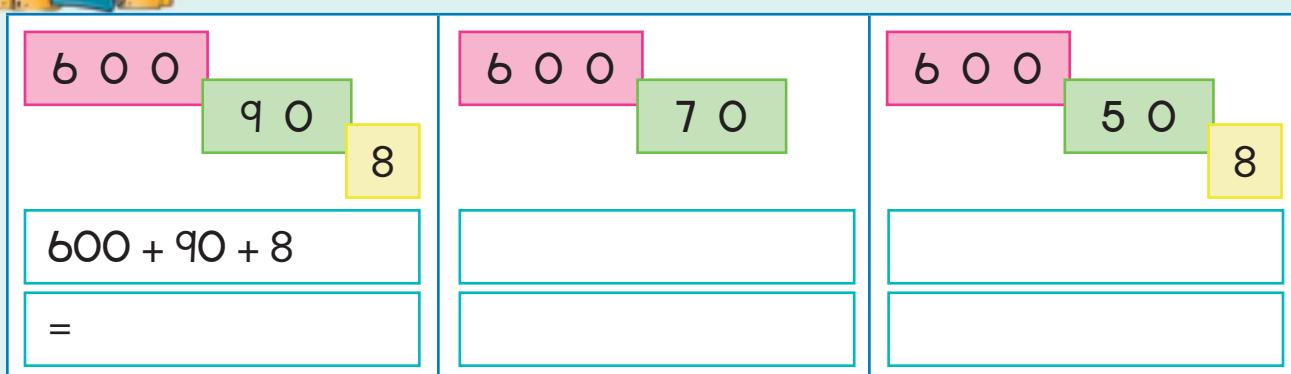
Leswi hi swona leswi Aakar
a swi kombiseke. Hi xihi xihoxo
lexi a xi endleke?



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 > =

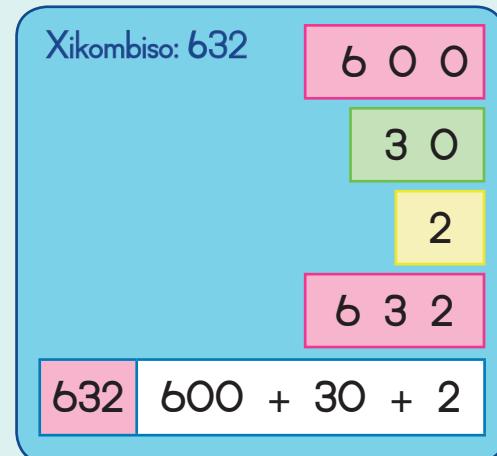
- a) 670 _____ 607
- b) 688 _____ 699
- c) $600 + 50 + 5$ _____ 655



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; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

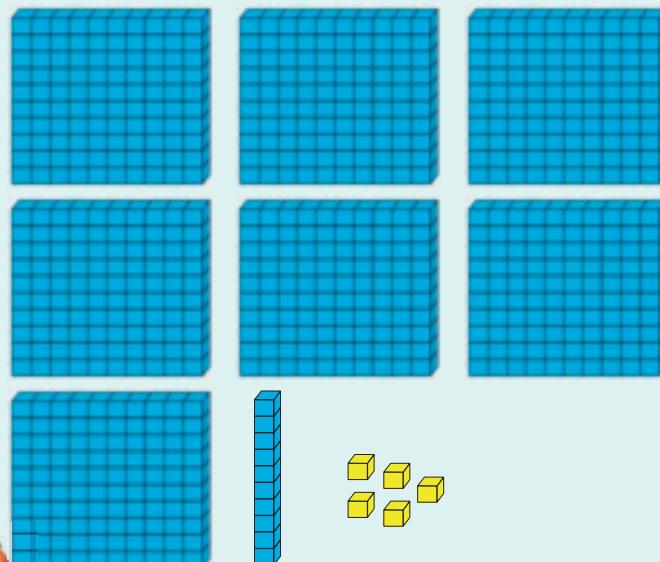
- e. Tsala tinomboro hinkwato hi patironi ya vu-3 ku suka eka 719 ku fika eka 749.

719; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 749

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

705; 710; 715; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

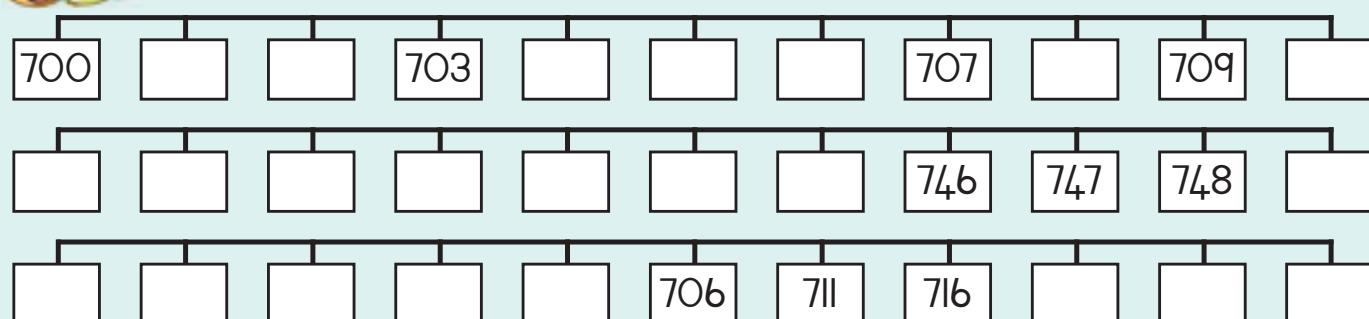
Xana u hlayele tibuloko tingani?



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

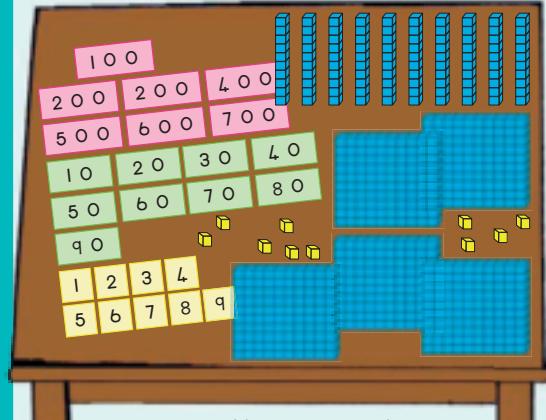


71

Tinomboro ta 700 ku fika eka 750

Siku:

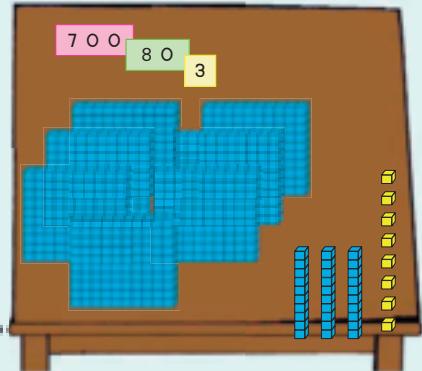
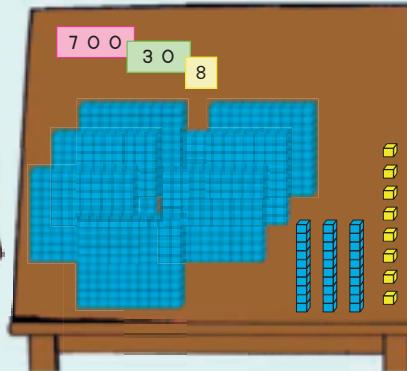
Kotara ya 3



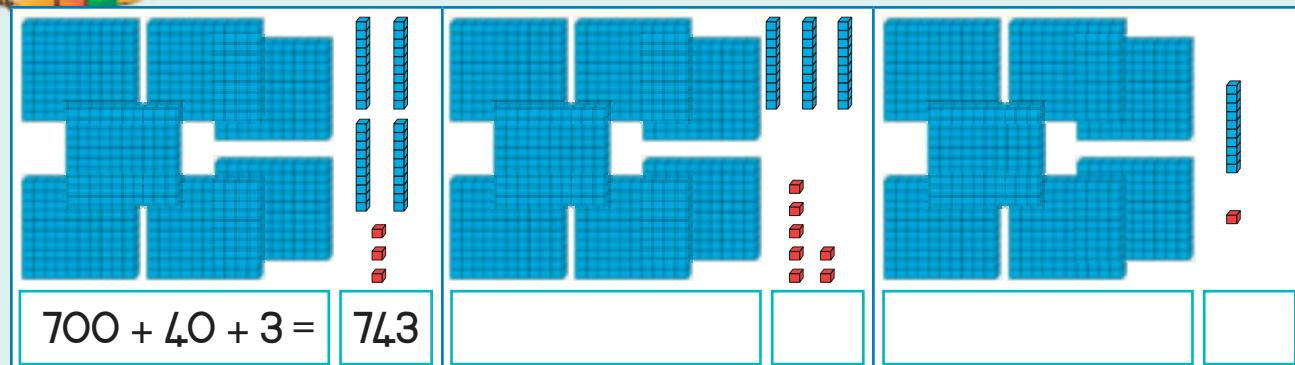
Peter u na makhadi ya xiyimela-nkoka
lama landzelaka na tibuloko ta beyisi
ya khume.

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

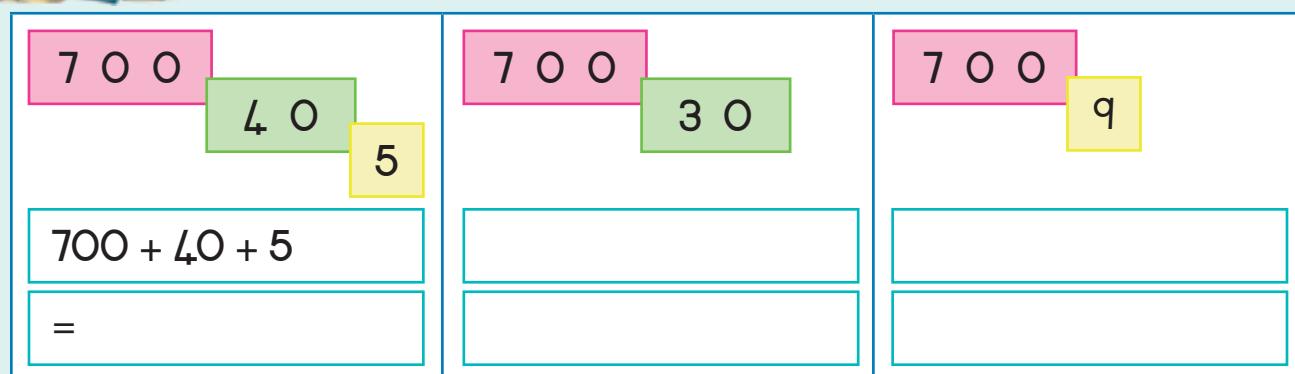
Leswi hi swona leswi Jabu
a swi kombiseke.
Hi xihi xihoxo lexi a xi endleke?



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 =

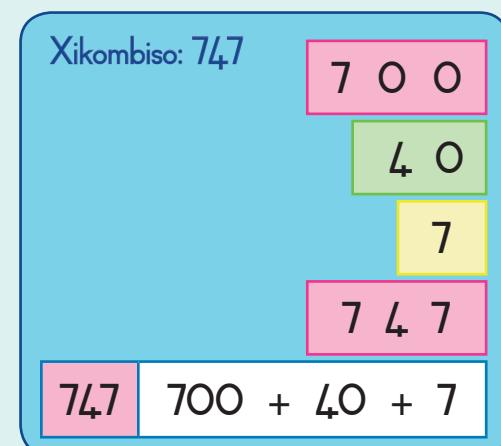
- a. 750 749 b. 732 723
 c. $700 + 40 + 9$ 749



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	



Tsala mavito ya tinomboro.

714	
750	
742	
738	
704	



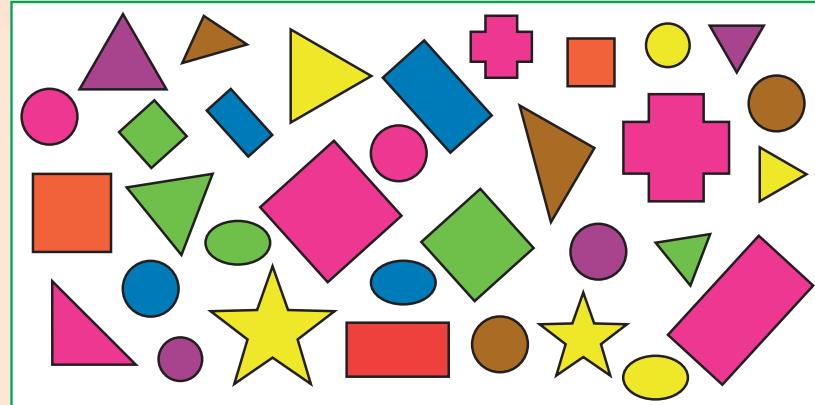
11 12 13 14 15 16 17 18 19 20



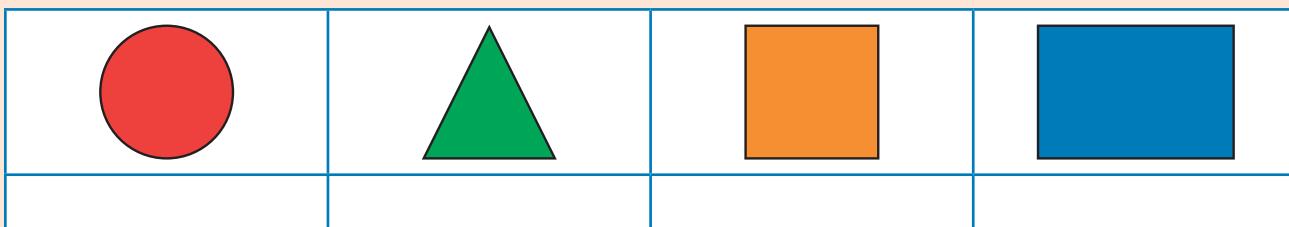
Swivumbeko swa 2 wa matlhelo

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.



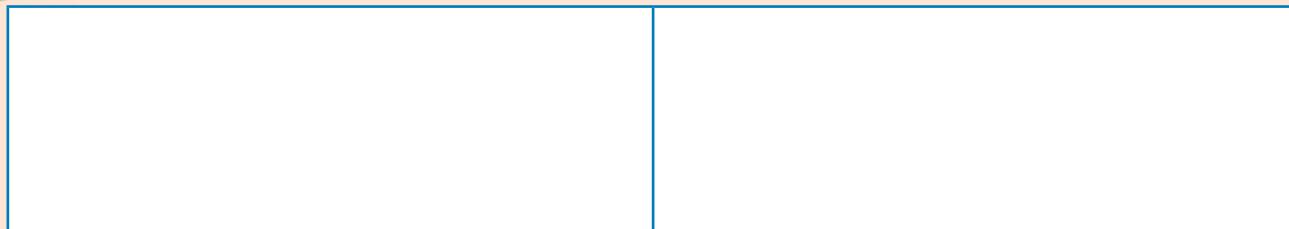
I swivumbeko swingani
leswi u nga swi dirowaka
hi makumu yo kongoma
thwixi?



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.



73

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?

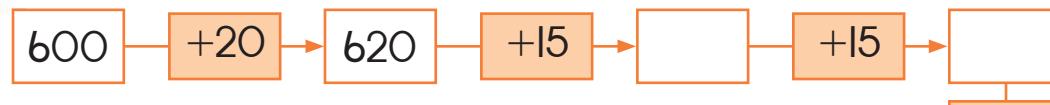


Hlanganisa ku suka eka 600.

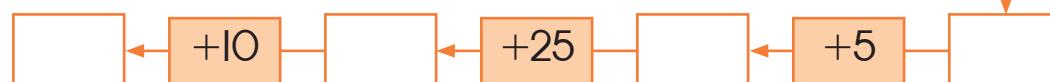


Tsala tinomboro leti siyeweke.

Sungula



Heta

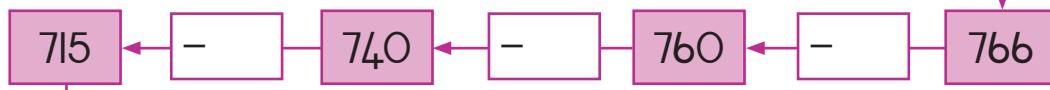
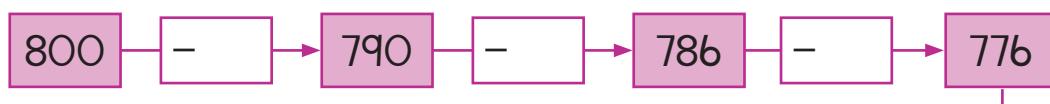


Hlayela hi xindzhaku ku suka eka 800.



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.



74

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.

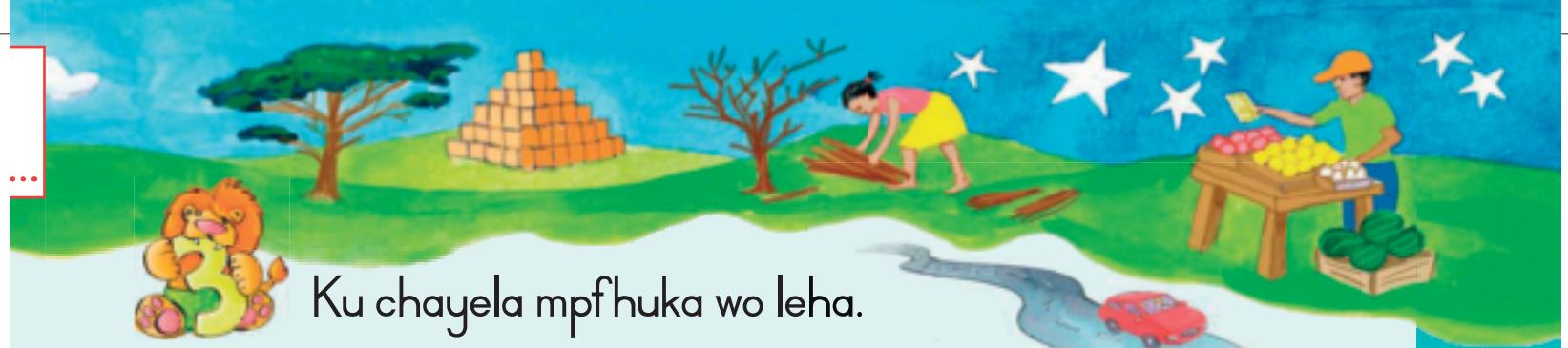
6 8 14				
17 17 34				
25 45 70				
65 335 400				
240 260 500				



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:
$352 - 166$ $\begin{array}{ccccccc} +4 & +30 & +100 & +52 \\ \hline 166 & 170 & 200 & 300 & 352 \end{array}$ $30 + 4 + 100 + 52$ $= 134 + 52 = 186 \text{ km}$	$352 - 166$ $\begin{array}{r} 300 + 50 + 2 \\ - 100 + 60 + 6 \\ \hline 300 + 40 + 12 \\ - 100 + 60 + 6 \\ \hline 200 + 140 + 12 \\ - 100 + 60 + 6 \\ \hline 100 + 80 + 6 \\ = 186 \text{ km} \end{array}$
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 rin'wana:

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

$746 - 328$

$800 - 499$



75

Ku hlanganisa no susa ku fika eka 800 nakambe

Siku:

Kotara ya 3



Aka mindyangu ya wena ya tinomboro.

Nghingiriko wo tilulamisa.

5 12 17

Xikombiso: Endla 17

8 9 17



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

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



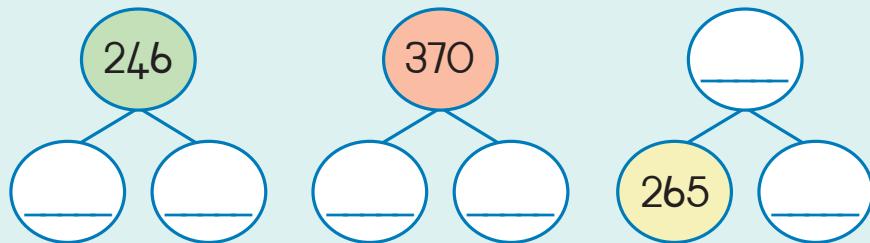
Eka nomboro yin'wana na yin'wana laha hansi, hlawula tin'wana ti2 ku endla ndyangu. Tsala swivulwa swa tinomboro swa mune (swimbirhi swa + na swimbirhi swa -) eka ndyangu wun'wana na wun'wana wa tinomboro.

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?



76

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 leyji 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; _____ ; _____ ; _____

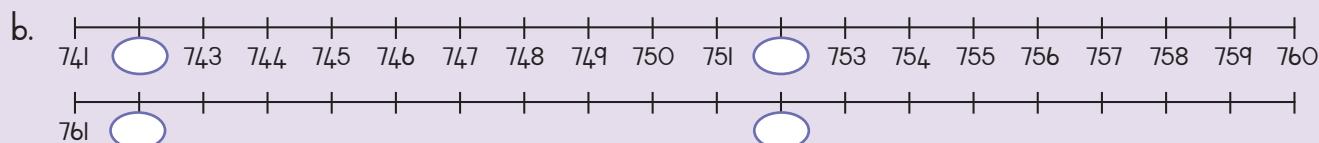
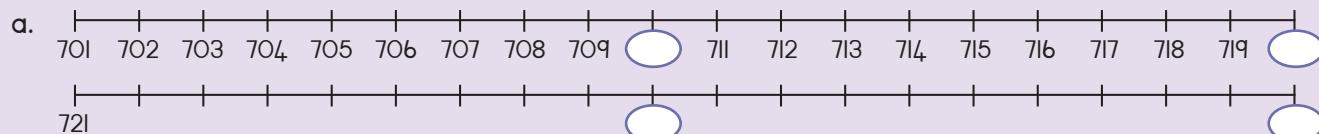
799; 789; 779; _____ ; _____ ; _____

782; 772; 762; _____ ; _____ ; _____

737; 747; 757; _____ ; _____ ; _____



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



Ndzi na nomboro ya 3 wa tidjiti.

Dijiti yo sungula i 7, dijiti leyji 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 leyji. Xana u kuma yini?



77

Siku:

.....

Ku yisa eka khume ra le kusuhi

Kotara ya 3

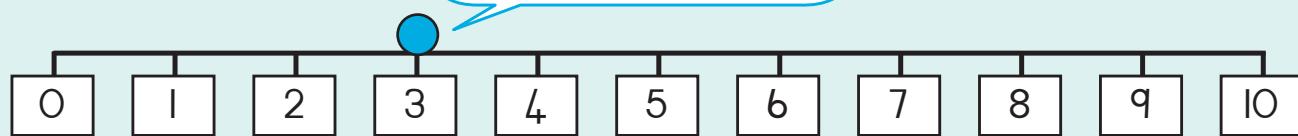
Tinomboro hinkwato ku suka eka 4
ku ya endzhaku ti ta yisiwa eka 0.

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

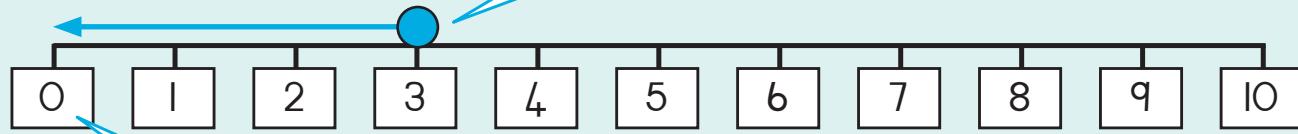


A hi vulavuleni.

Languta 3 eka ndzhati wa mintsengo.



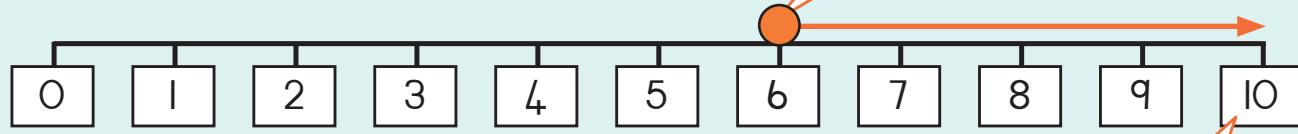
Xana 3 yi ta va yini loko yi yisiwa eka 10 ya le kusuhi??



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?



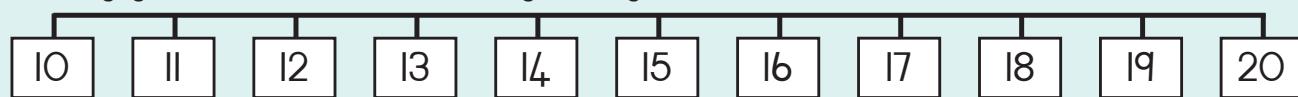
Nhlamulo yi ta va 10.



Yisa eka 10 ya le kusuhi.

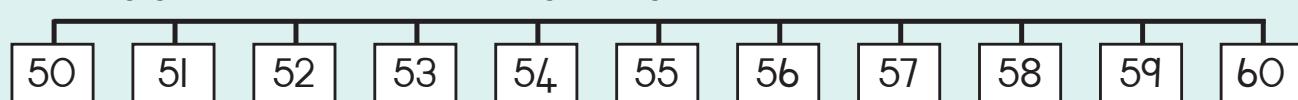
12 loko yi yisiwa eka khume ra le kusuhi yi ta va yini? _____

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? _____





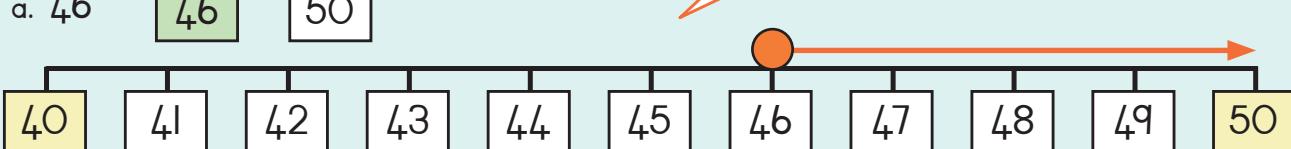
Yisa eka 10 ya le kusuhi, u tirhisa
mindzhati ya mintsengo ku ku pfuna.

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

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



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:

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

Hetisa tafula.

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	



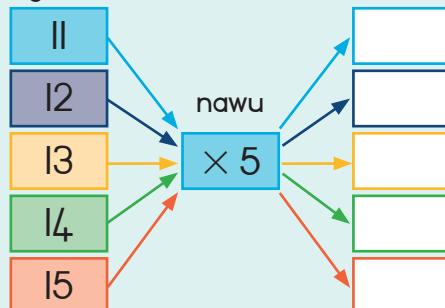
Hetisa tafula.

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	



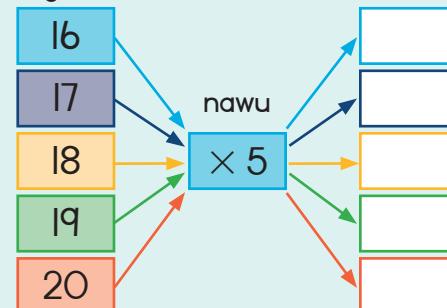
Hetisa tidayigiramu ta nkhuluko.

Lexi nghenisiwaka



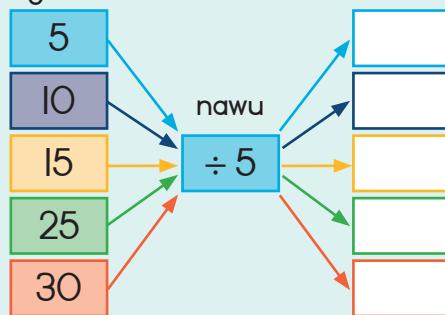
Lexi kumekaka

Lexi nghenisiwaka



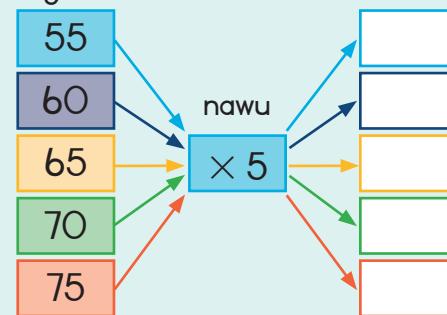
Lexi kumekaka

Lexi nghenisiwaka



Lexi kumekaka

Lexi nghenisiwaka



Lexi kumekaka



Hetisa matafula lama nga laha hansi:

×	1	2	3	4	5	6	7	8	9	10
5										

×	II	I2	I3	I4	I5	I6	I7	I8	I9	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?



II I2 I3 I4 I5 I6 I7 I8 I9 20

79

Tipatironi ta tinomboro: vuntlhanu ku fika eka 800

Siku:

Kotara ya 3



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

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

Hlayela hi xindzhaku hi vuntlhanu 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 ndzandzelano wa tinomboro.

725; 730; 735; _____; _____; _____	800; 795; 790; _____; _____; _____
------------------------------------	------------------------------------



Hlanganisa kumbe u susa ntłhanu.

$$\text{a. } 760 + 5 = 765$$

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 | <input type="text"/> | 706 | <input type="text"/> | 708 | 709 | <input type="text"/> | 711 | 712 | 713 | 714 | <input type="text"/> | 716 | 717 | 718 | 719 | <input type="text"/> |
| 721 | | | | <input type="text"/> | | <input type="text"/> | | | | | | | | <input type="text"/> | | | | | <input type="text"/> |
- b.
- | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----------------------|-----|-----|-----|----------------------|-----|----------------------|-----|-----|----------------------|-----|----------------------|-----|----------------------|-----|-----|-----|-----|----------------------|-----|-----|-----|
| 741 | <input type="text"/> | 743 | 744 | 745 | <input type="text"/> | 746 | <input type="text"/> | 748 | 749 | <input type="text"/> | 750 | <input type="text"/> | 751 | <input type="text"/> | 753 | 754 | 755 | 756 | <input type="text"/> | 758 | 759 | 760 |
| 761 | <input type="text"/> | | | | <input type="text"/> | | | | | <input type="text"/> | | | | <input type="text"/> | | | | | <input type="text"/> | | | |



Ndzi na nomboro ya 3 wa tidijiti.



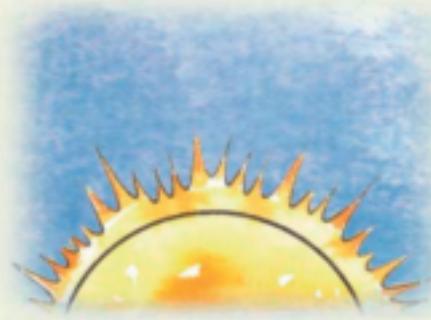
Dijiti yo sungula i 7, dijiti leyi landzelaka yi tlula 7 hi n'we kasi dijiti
yo hetelela yi le hanshi hi ntłhanu eka nkombo.

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		

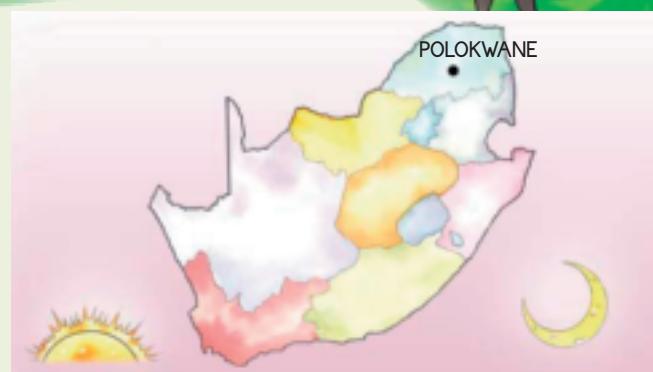
- I tin'hweti tihī leti nhlekanhi na vusiku swi ringanaka hi ku leha? _____
 - Hi yihī n'hweti leyī nga na masiku yo leha swinene? _____
 - Hi yihī n'hweti leyī nga na masiku yo koma swinene? _____
 - Kuma ku hambana ka tiawara na timinete exikarhi ka siku ro leha swinene na siku ro koma swinene.
 - 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?

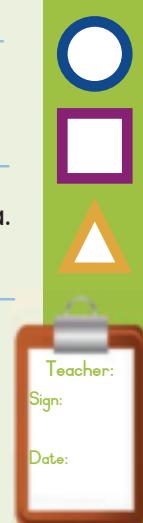
- Hi le ka tin'hweti tih i laha ku hambanaka?

- 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.

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	



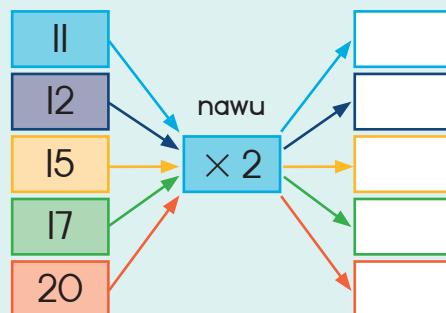
Hetisa tafula.

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	

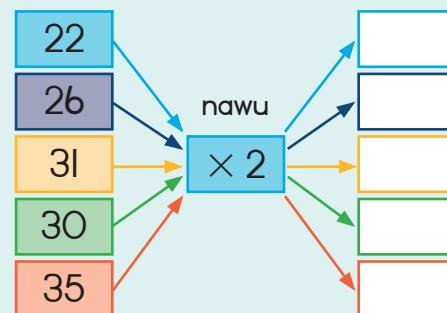


Hetisa tidayigiramu ta nkhuluko.

Leswi nghenisiwaka

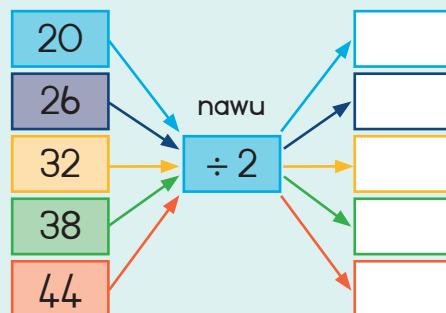


Leswi kumekaka

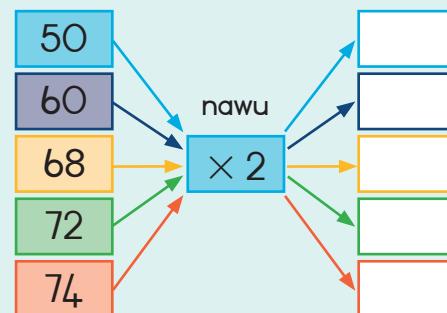


Leswi kumekaka

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

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. $76\textcolor{red}{4} + 2 = \textcolor{red}{76}\textcolor{red}{6}$

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; _____ ; _____ ; _____



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

- a.
- | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 701 | 703 | 705 | 707 | 709 | 711 | 713 | 715 | 717 | 719 |
| 721 | | | | | | | | | |
- b.
- | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 741 | 743 | 744 | 745 | 747 | 748 | 749 | 750 | 751 | 753 | 754 | 755 | 757 | 758 | 759 | 760 |
| 761 | | | | | | | | | | | | | | | |



Ndzi na nomboro ya 3 wa tidijiti.

Dijiti yo sungula i 7, dijiti leyi 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 leyi. Xana u kuma yini?



11 12 13 14 15 16 17 18 19 20

83

Ku andzisa:

vu-2 na vu-5 ku fika eka 75

Siku:

Kotara ya 3



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

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



Languta leswi munghana wa
mina a swi endleke.

$$4 \times 2 = 8$$

Bulani hi swona.

Munghana u kombisile 4×2 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:

$$24 \times 3$$

$$\begin{aligned}
 &= (20 + 4) \times 3 \\
 &= (20 \times 3) + (4 \times 3) \\
 &= 60 + 12 \\
 &= 72
 \end{aligned}$$

a. 13×3

b. 18×3

c. 12×5

d. 21×3

e. 14×3

f. 25×3

g. 12×3

h. 15×5



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?



Teacher: Sign:
Date:

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:

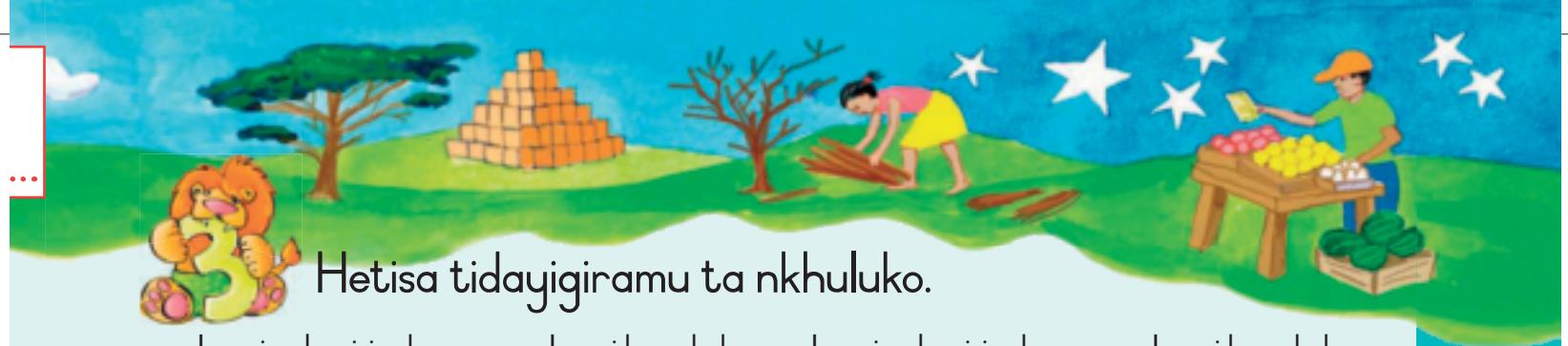
$$\begin{aligned}9 \times 3 &= 27 \\7 \times 3 &= 21 \\2 \times 3 &= 6 \\4 \times 3 &= 12 \\3 \times 3 &= 9 \\5 \times 3 &= 15 \\1 \times 3 &= 3 \\10 \times 3 &= 30 \\6 \times 3 &= 18 \\8 \times 3 &= 24\end{aligned}$$

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	



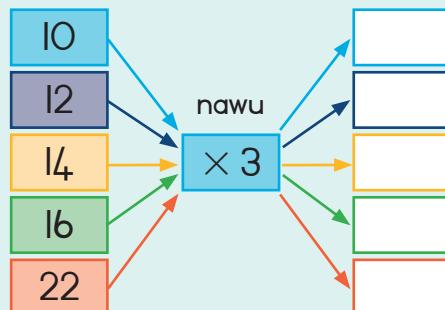
Hetisa tafula.

Ku avela	Avanyisa
Ava 37 exikarhi ka 3	$37 \div 3 = 12$ nsalo i 1
Ava 74 exikarhi ka 3	
Ava 49 exikarhi ka 3	
Ava 68 exikarhi ka 3	



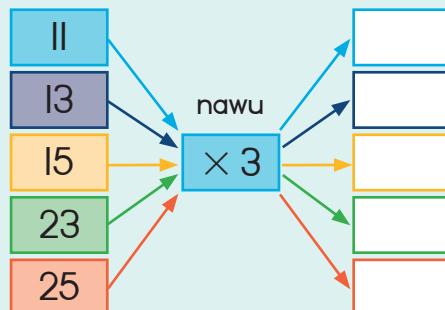
Hetisa tidayigiramu ta nkhuluko.

Leswi nghenisiwaka



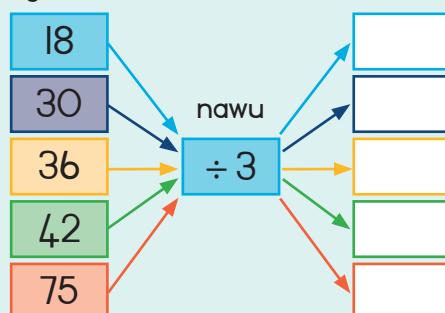
Leswi kumekaka

Leswi nghenisiwaka



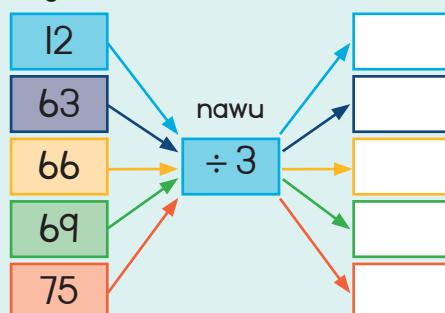
Leswi kumekaka

Leswi nghenisiwaka



Leswi kumekaka

Leswi nghenisiwaka



Leswi kumekaka



Hetisa matafula lama nga laha hansi:

\times	1	2	3	4	5	6	7	8	9	10	II	I2	I3	I4	I5
4	3	6													

\times	I6	I7	I8	I9	I20	I21	I22	I23	I24	I25	I26	I27	I28	I29	I30
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?



II I2 I3 I4 I5 I6 I7 I8 I9 20

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 5×2 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.

$$63 \div 3$$

$$= 21$$





$$21 \times 3$$

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

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; _____ ; _____ ; _____



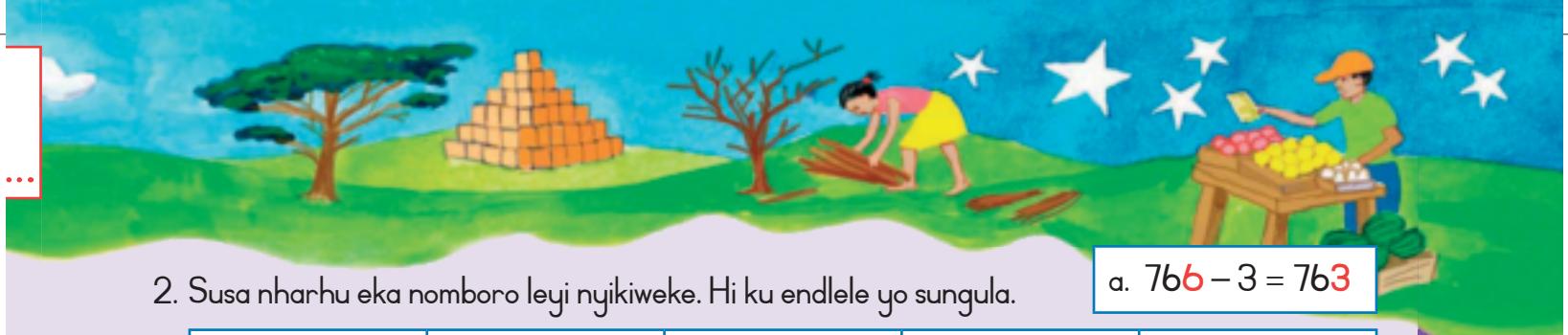
Hlanganisa kumbe u susa nharhu.

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; _____ ; _____ ; _____

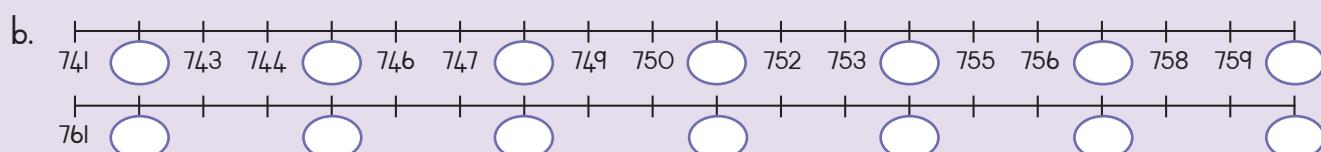
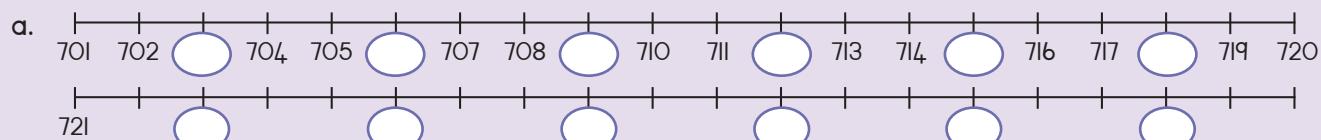
773; 776; 779; _____ ; _____ ; _____

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:

$$9 \times 4 = 36$$

$$7 \times 4 = 28$$

$$\textcolor{orange}{2 \times 4 = 8}$$

$$4 \times 4 = 16$$

$$3 \times 4 = 12$$

$$5 \times 4 = 20$$

$$1 \times 4 = 4$$

$$10 \times 4 = 40$$

$$6 \times 4 = 24$$

$$8 \times 4 = 32$$



Hetisa tafula.

Ku ntlawahata	Andzisa	Ku avela	Avanyisa
12 wa mintlawa ya 4	$12 \times 4 = \textcolor{red}{48}$	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	



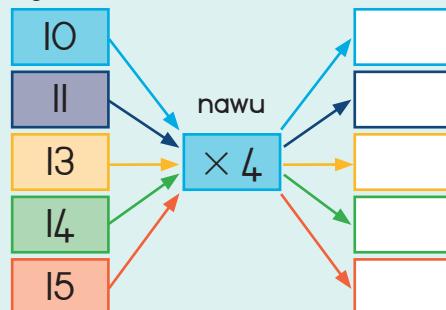
Hetisa tafula.

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	



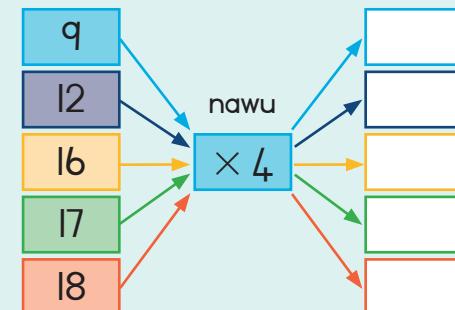
Hetisa tidayigiramu ta nkhuluko.

Leswi nghenisiwaka



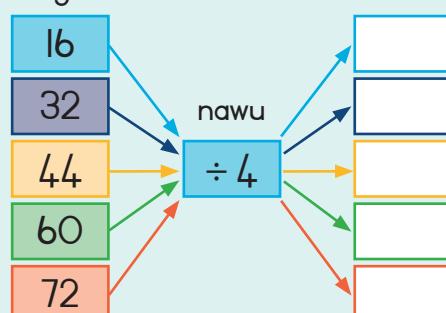
Leswi kumekaka

Leswi nghenisiwaka



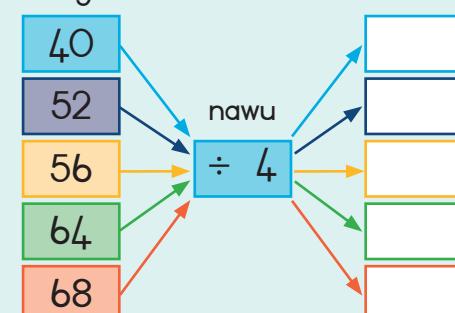
Leswi kumekaka

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 henhla?



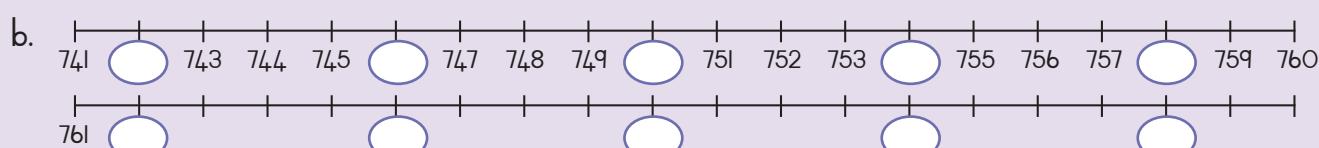
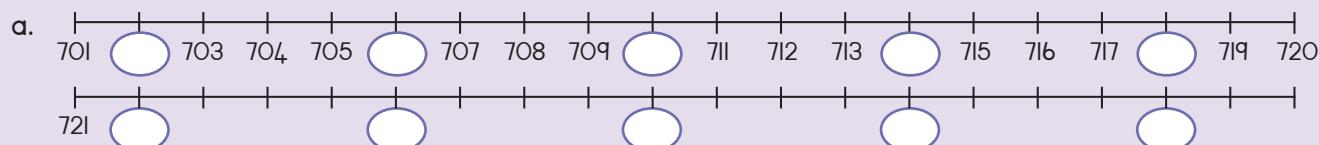
Languta swirhendzevutana swa wasi eka bodo ya tinomboro.

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; _____; _____;
- 711; 715; 719; _____; _____;
783; 779; 775; _____; _____;
799; 795; 791; _____; _____;



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



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?



89

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.

$$65 \div 3$$

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

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

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

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

$$2l \times 3 + 2$$

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

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

$$= 60 + 3 + 2$$

$$= 65$$

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
||||| ||||| ||||| ||||| ||||| ||||| |||||

90



Siku:

Kotara ya 3



Languta swifaniso.

Vulavula hi vuandlalo bya minchumu leyji u tirhisa marito yo fana na xiphopherhele na xirhendzevutana.

Tibolo



Mabokisi



Tisilindara



Tiphiramidi



Tikhoni



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

_____.



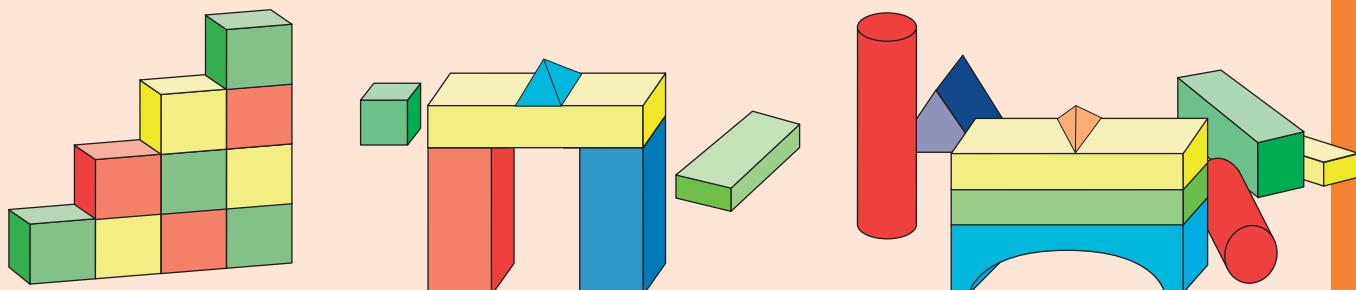
d. Xana silindara yi
nga rheta?

_____.



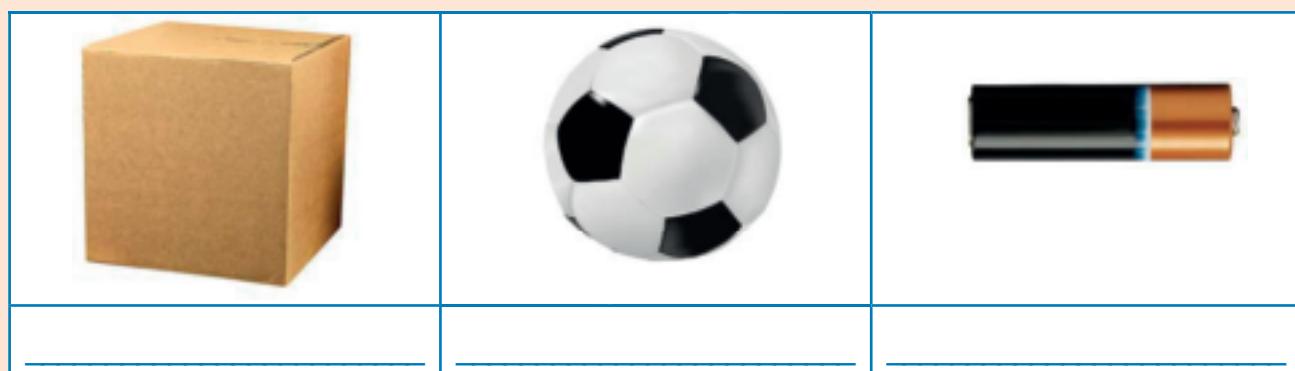
Nyika mavito ya swilo leswi tirhisiweke
eka xifaniso xin'wana na xin'wana.

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.
-------------------------------------	--	---



q|

Siku:

Switirho swa swipandzu swa swiphemu

Kotara ya 3



Endla switirho

Phepha ra Xitsemiwa xa 5

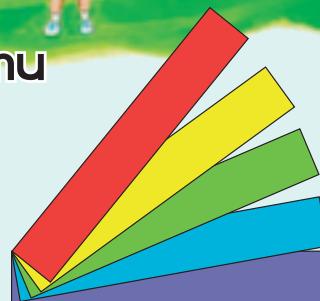
Eka xipandzu xin'we tsala marito ya: "Xiheri xin'we."

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.

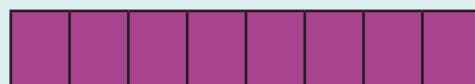
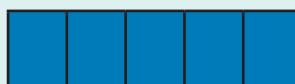
Teka xipandzu xa vunharhu kutani u xi petsa hi hafu, u tlhela u xi petsa hi hafu. Xi pfule. Xana u na swiphemu swingani leswi ringanaka? Tsala $\frac{1}{4}$ eka xa-mune xin'wana na xin'wana kutani u tsema laha ku petsiweke kona. Ringeta ku endla swipandzu swin'wana swimbirhi, xin'we lexi kombisaka swa-ntlhanu



Xiheri xin'we



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.

Xiheri xin'we

Xirhendzevutana lexi xi kombisa xiheri xin'we.

Xiheri
xin'we

Avanyisa xipandzu eka swiphemu swa xa-nharhu.

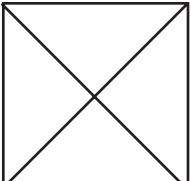
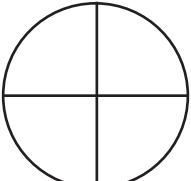
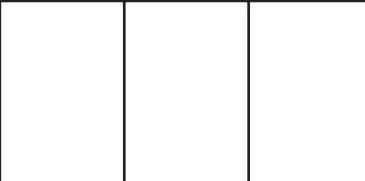
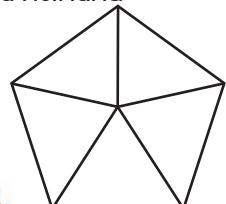
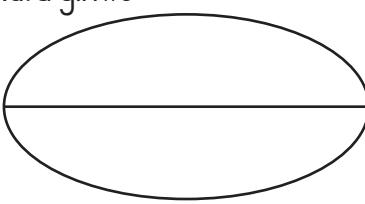
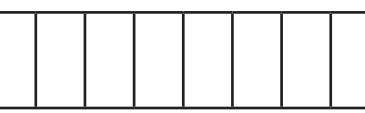
Avanyisa xirhendzevutana eka xa-nharhu.

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.



q2

Swiphemu swin'wana

Siku:

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



Ava phayi

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



Sipho



Dirowa xiphemu xa Sipho.

Andzani



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



Gavaza



Dirowa swiphemu swa Sipho na Gavaza.



a. Ndzi twa ndlala!
Ndzi lava hafu!

b. Hi swona! Ndzi ta teka kota.

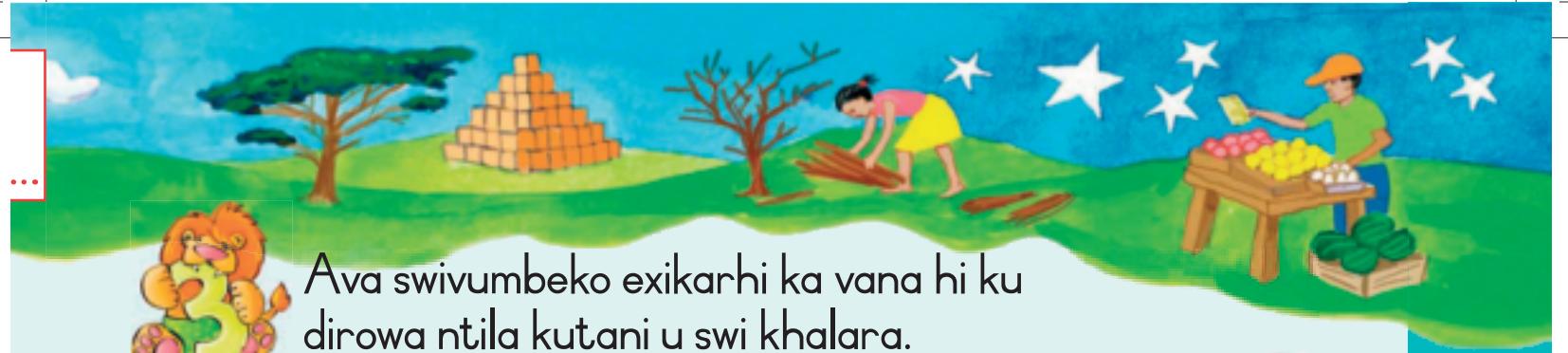
c. Ndzi ta kuma hafu
ya leswi saleke.

d. Ndzi salele hi phayi yo
tanihi kwihi?

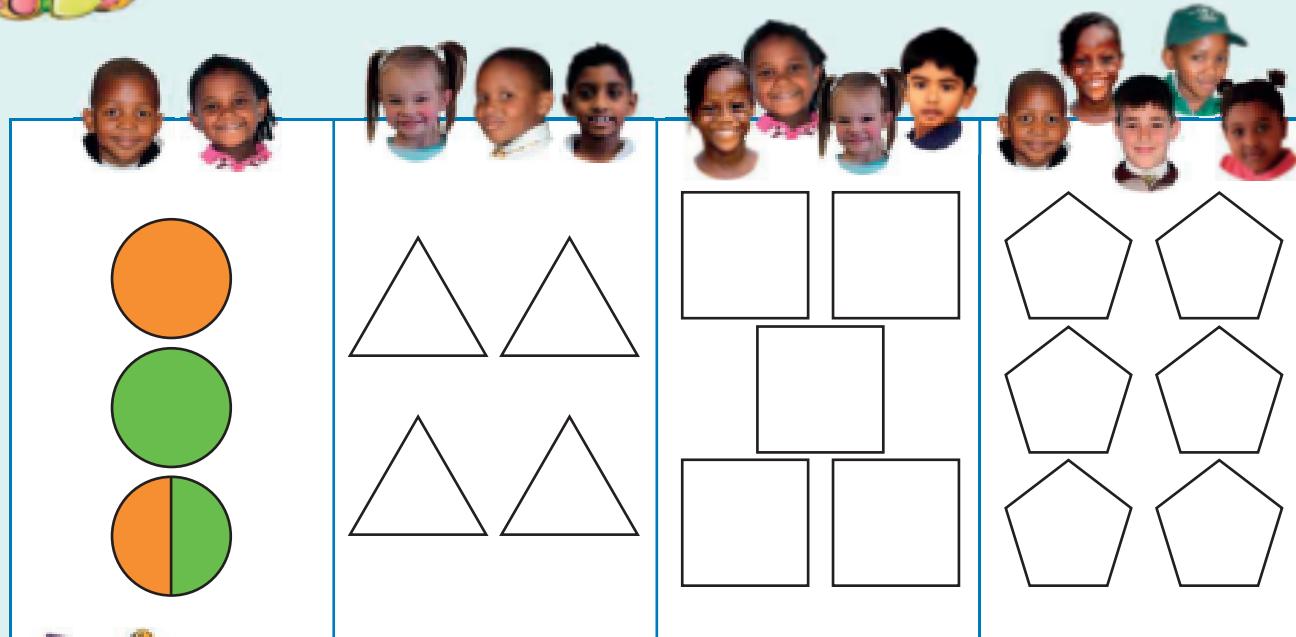


Lisa





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.



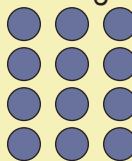
q3

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.

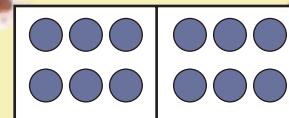
Hi vula leswaku ley i hafu yin'we.



Hi ava swihlayelo swa khumembirhi exikarhi ka hina vambirhi.

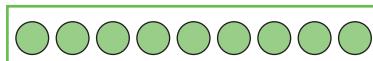
Ndzi kumile swihlayelo swa ntsevu.

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?

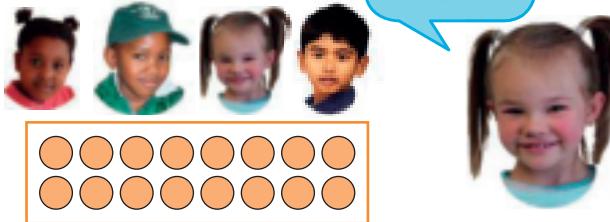
Xana Lisa u ta amukela xiphemu muni?

Vito ra mina i Mandla.

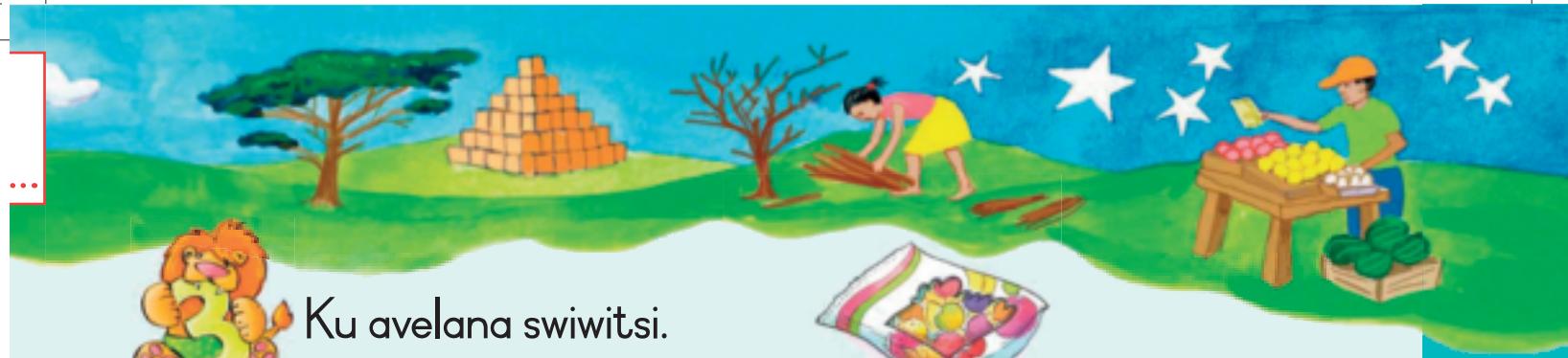


- Xana Mandla na Lisa va ta amukela tibolo tingani?

Vito ra mina i Lisa.



- Xana Mandla na Lisa va ta amukela tibolo tingani?



Ku avelana swiwiitsi.



Vanghana van'wana va avelana swiwiitsi. 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.

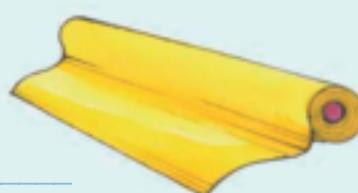
Lapi ri durha R6 hi mitara.



- a. Xana va nga endla swikete swingani hi:

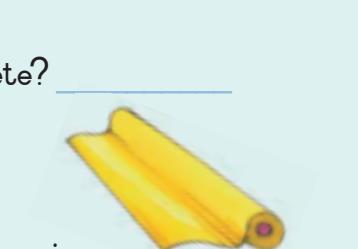
5 m? _____ 10 m? _____

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? _____



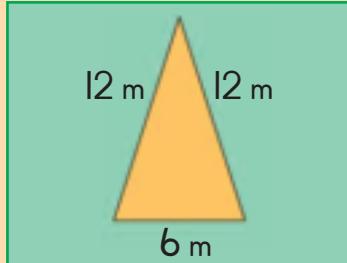
94

Siku:

Kotara ya 3

Mpfhuka lowu nga kona

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



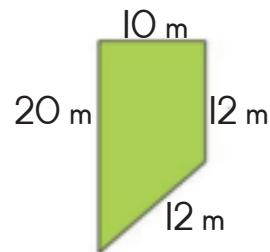
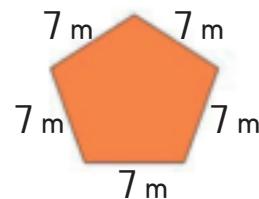
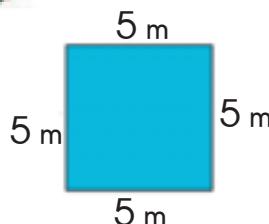
N'wapurasi u na nsimu ya xivumbeko xa yinhanharhu.

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? _____

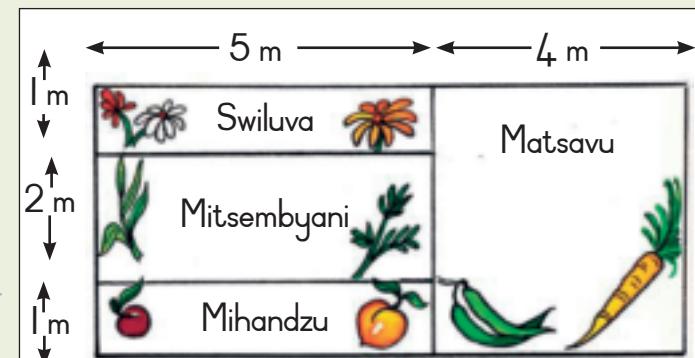
b. Hi swihi swiyenge swimbirhi leswi nga na ndzhendzeleko lowu fanaka?

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.

Tirhisa 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, nighilazi, 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.



Mpfhuka lowu rhendzelaka xirhendzevutana wu vitaniwa mpfhuka wa xirhendzevutana.	
Mpfhuka lowu tsemakanyaka xirhendzevutana wu vitaniwa mpandzo-xikarhi.	



95a

Siku:

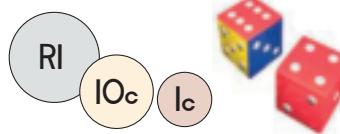
Kotara ya 3

Ku cincelana mali

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.

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

$$\text{RI} \quad \text{RI} \quad \text{RI} \quad \text{RI} \quad \text{RI} \quad \text{RI} \quad \text{RI} \quad = \quad \boxed{\text{RIO}}$$

4. 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.

$$\boxed{\text{RIO}} \quad \boxed{\text{RIO}} = \quad \boxed{\text{RIOO}}$$

5. **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:

A 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.

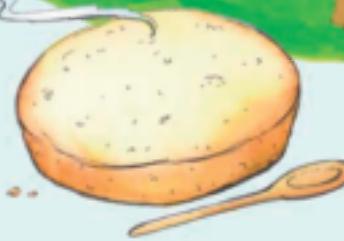
Hi swihi swigqhoko swin'wana leswi a swi xaveke? Kombisa 2 wa tinhlamulo leti nga kumekaka.

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:

Kotara ya 3



Swin'wana hi switiviwa

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	
Mthonjeni	
Hitekani	
Thuthong	
Mosiba	

Xana xikolo xin'wana na xin'wana xi byarile mirhi yingani?

Klipspruit	Mthonjeni	Hitekani	Thuthong	Mosiba

Xana swikolo swi byarile mirhi yingani loko yi hlanganile hinkwayo? _____



I lwangu ra njhani?

Tiliasi ya Giredi ya 3 yi endla ndzavisiso 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

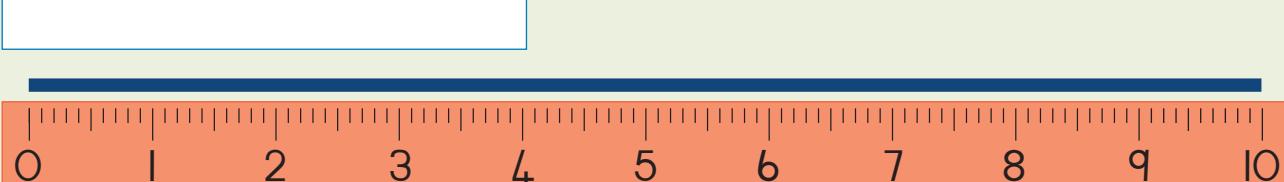
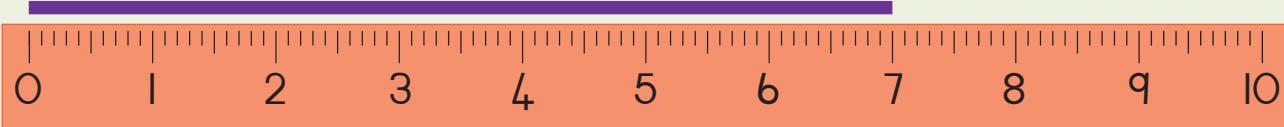


Kotara ya 4



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.

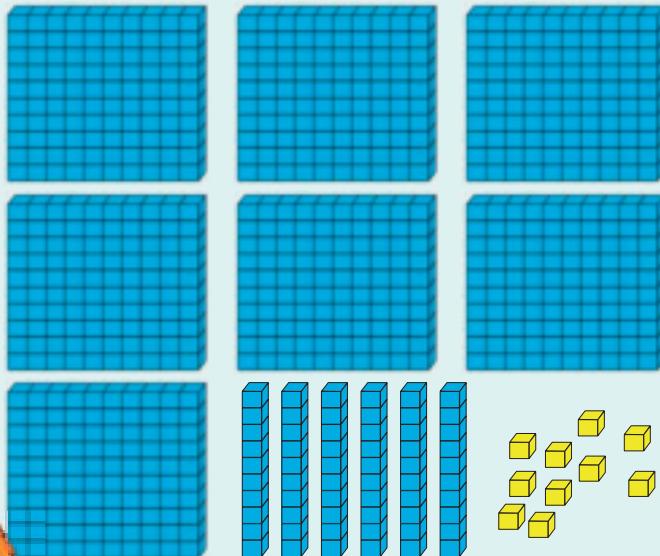
751; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 773

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

751; 756; 761; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____



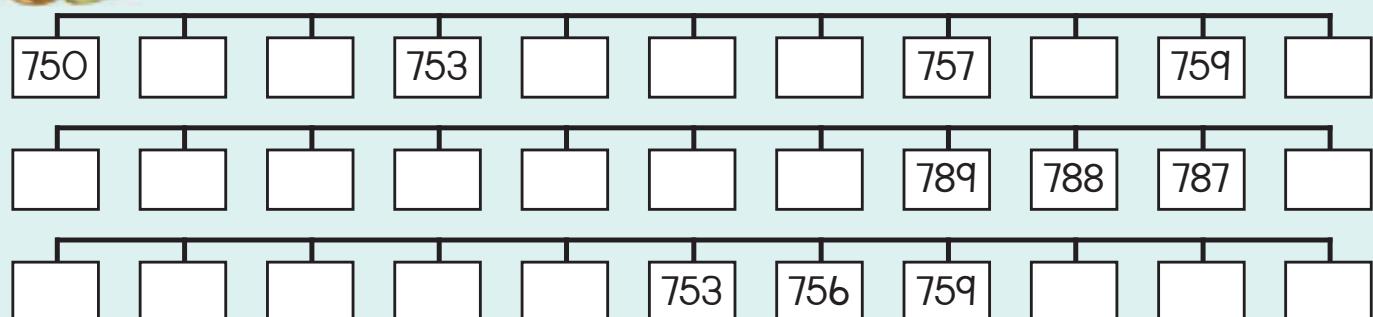
Xana u hlayele tibuloko tingani?



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



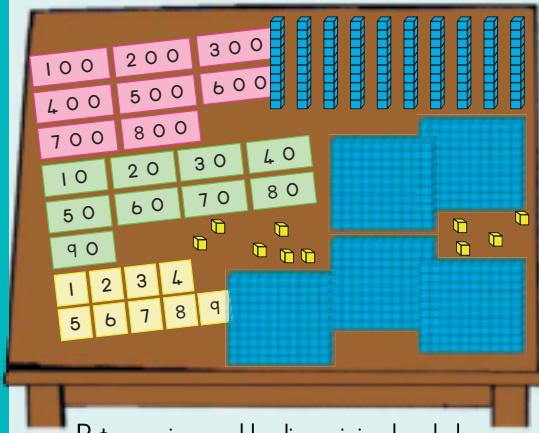
11 12 13 14 15 16 17 18 19 20

qq

Tinomboro tin'wana ta 700 ku fika eka 800

Siku:

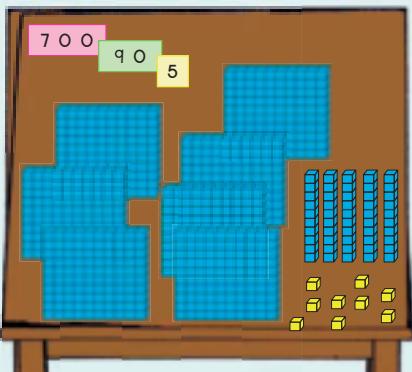
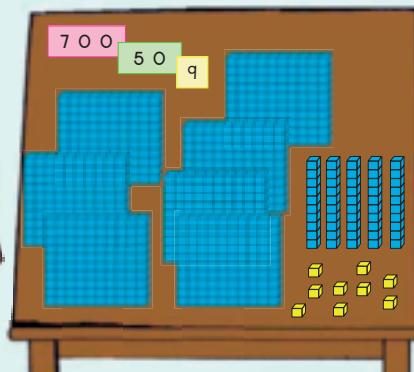
Kotara ya 4



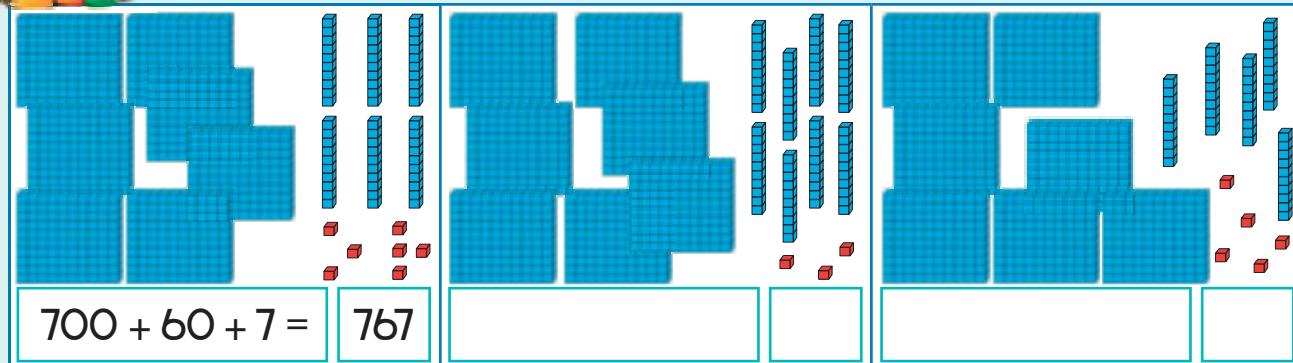
Peter a ri na makhadi ya xijimela-nkoka
lama landzelaka na tibuloko ta beyisi
ya khume.

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

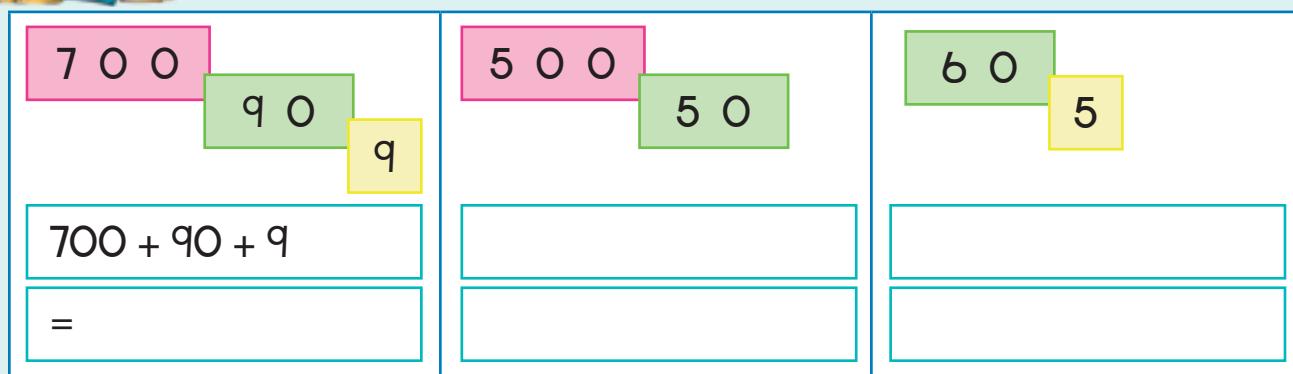
Leswi hi swona leswi
kombisiweke hi Ben.
U endlile yini xo hoxeka?



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 =.

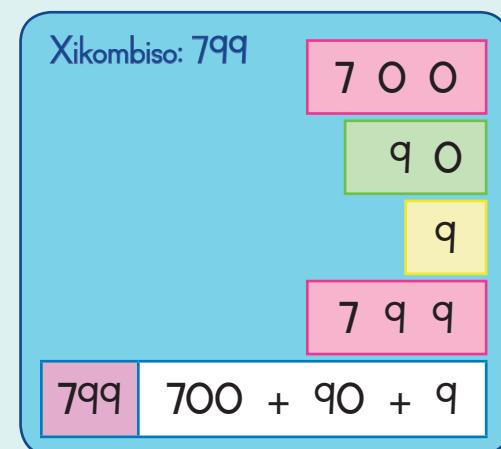
- a. 799 _____ 766 b. 745 _____ 750
 c. $700 + 90 + 7$ _____ 767



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

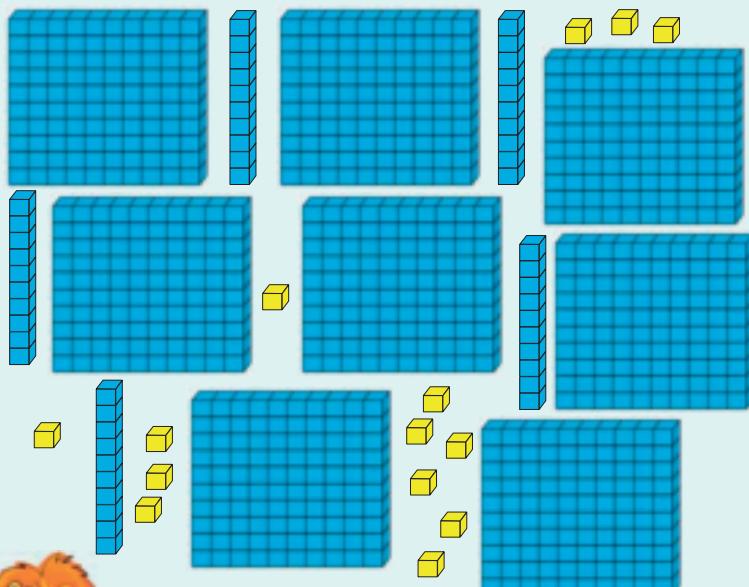
807; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 829

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

834; 839; 844; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____



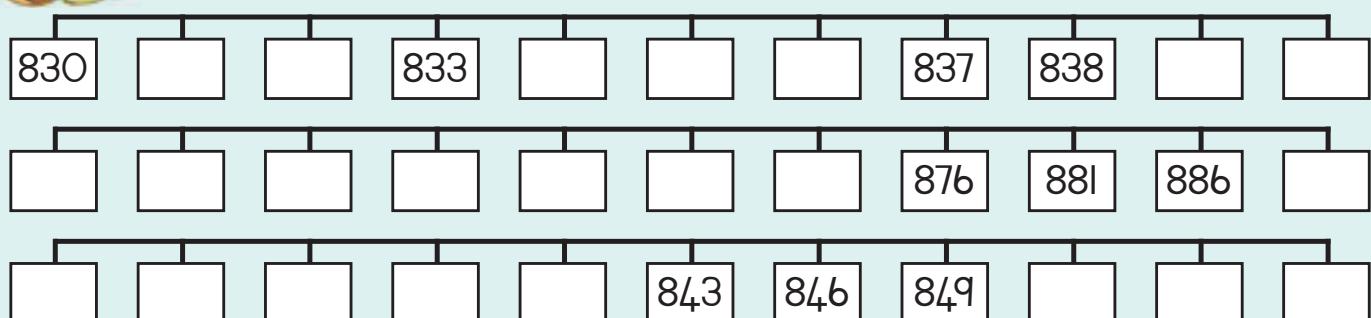
Xana u hlayele tibuloko tingani?



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



Teacher:
Sign:
Date:



Tsala nomboro leyi landzelaka hi marito.

845

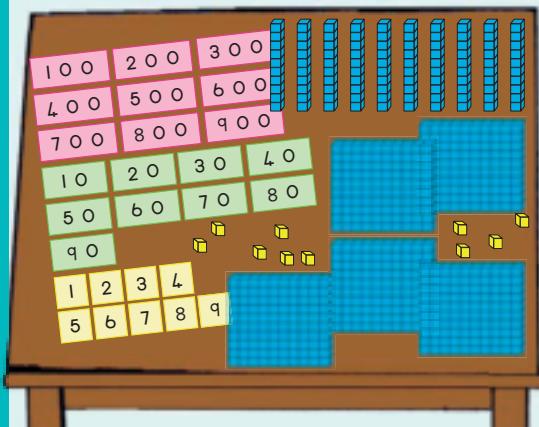
11 12 13 14 15 16 17 18 19 20

101

Tinomboro ta 800 ku fika eka 900

Siku:

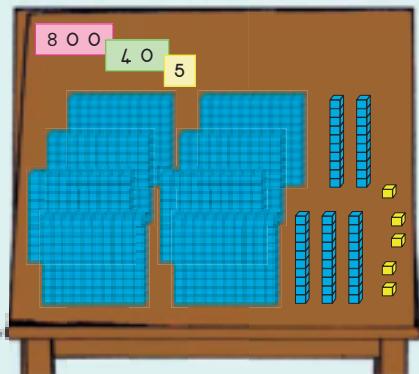
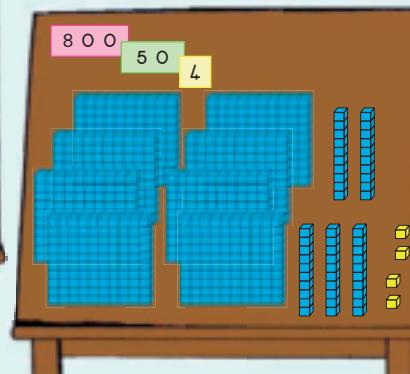
Kotara ya 4



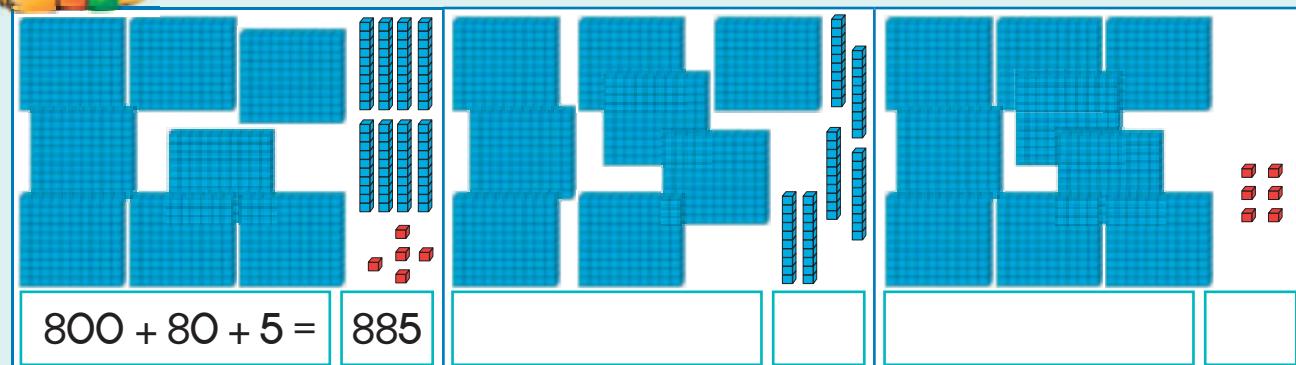
Peter a ri na makhadi ya xiyimela-nkoka na tibuloko ta beyisi ya khume.

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

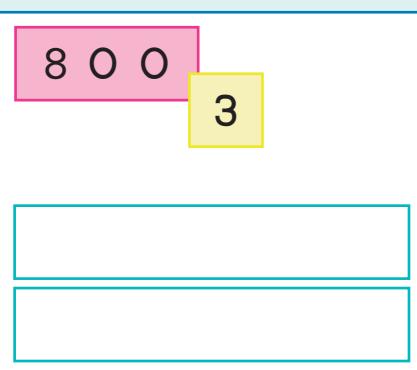
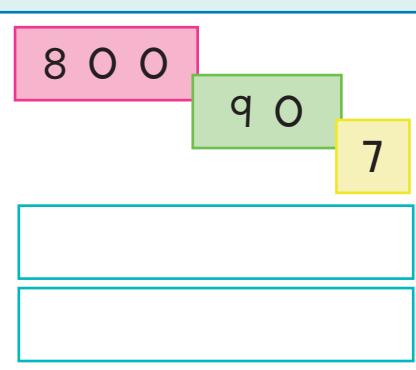
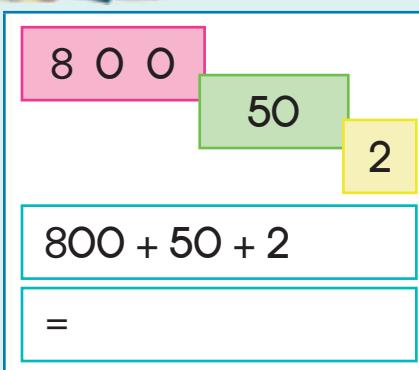
Leswi hi swona leswi kombisiweke hi Ben. Xana i yini lexi a xi endleke hi ndlela yo hoxeka?



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

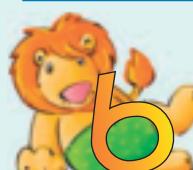
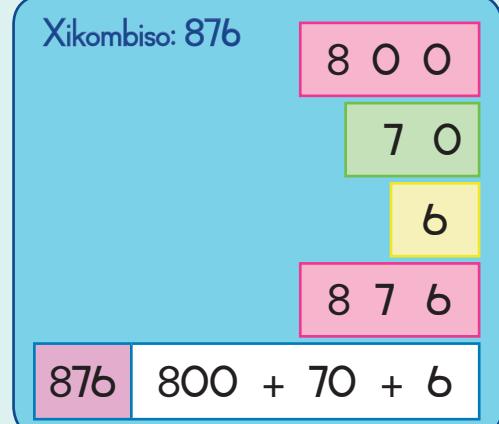


Tlhantlha nomboro ya wena.

- 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.



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

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

- 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 tanihi 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 swin'wana

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.

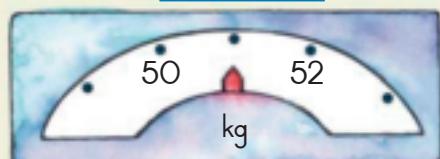
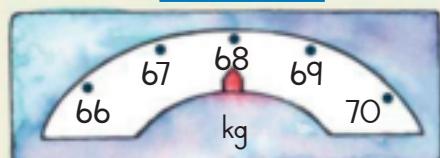
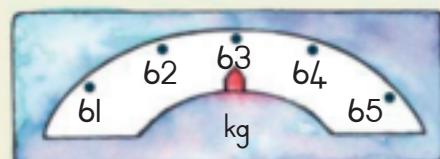
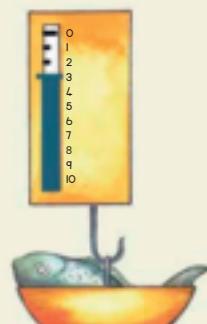


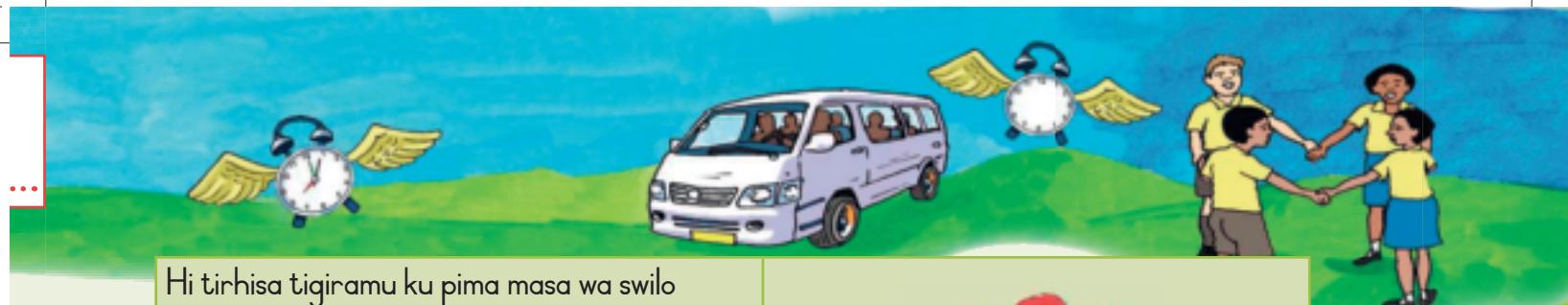
Nhlampfi leyi yi na ntiko wa 3 kg.



Kuma ntiko wa tona.

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

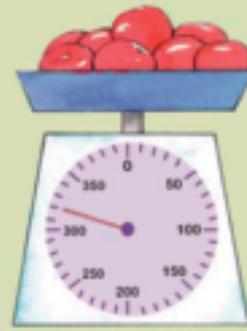




Hi tirhisa tigiramu ku pima masa wa swilo
leswitsongo kumbe swilo swo vevuka na ku pima
swiphemu swa kilogiramu.

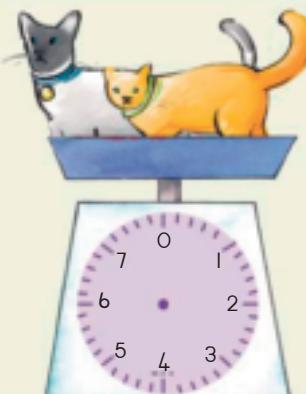
$$1000 \text{ g} = 1 \text{ kg}$$

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?

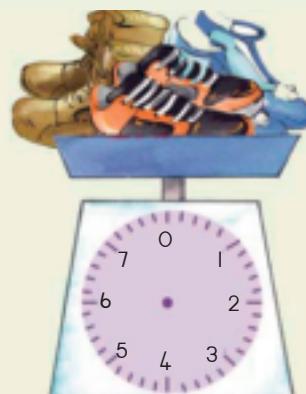
Dirowa exikalwini laha nseve wu faneleke ku ya kona nkarhi wun'wana na wun'wana.



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	
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.

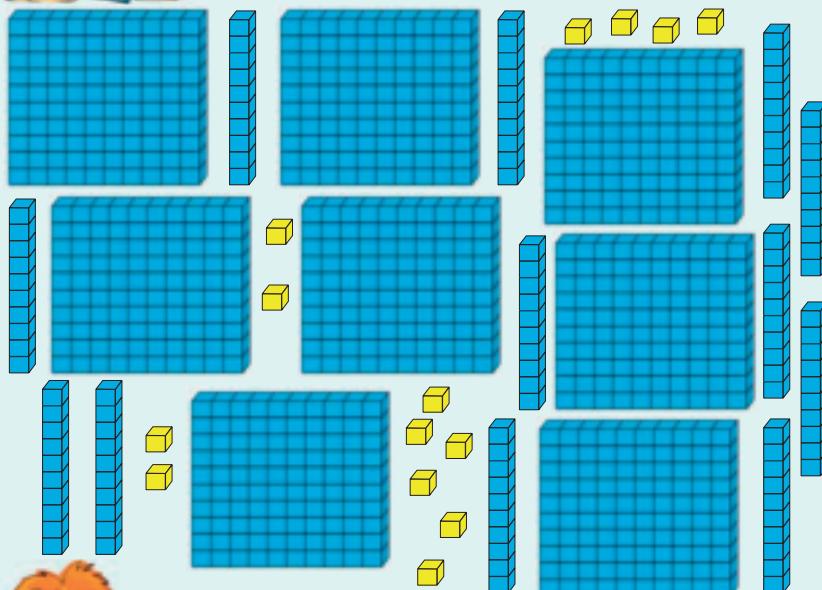
945; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 967

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

936; 941; 946; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____



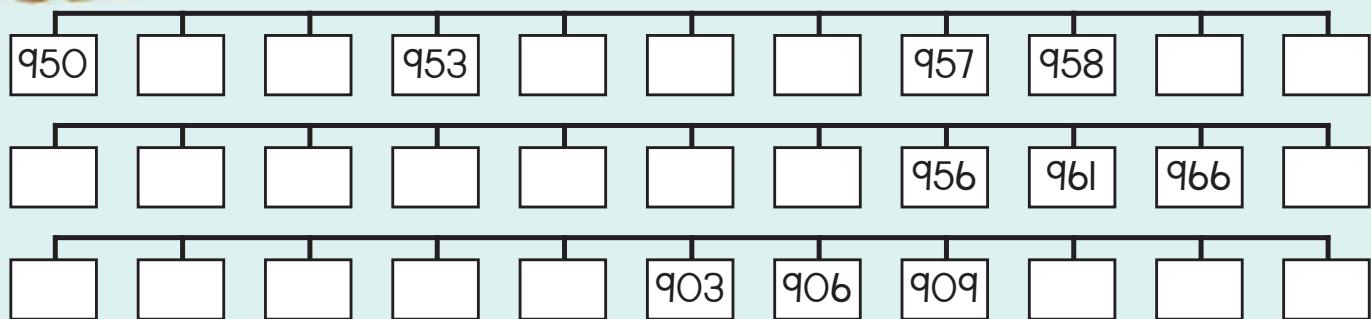
Xana u hlayele tibuloko tingani?



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.

936, 933, 935, 931, 937

978, 907, 970, 917, 971



Tsala nomboro leyi landzelaka hi marito.

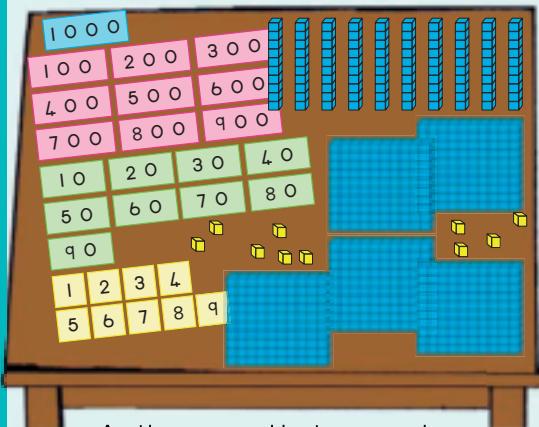
695

104

Tinomboro tin'wana ta 900 ku fika eka 1 000

Siku:

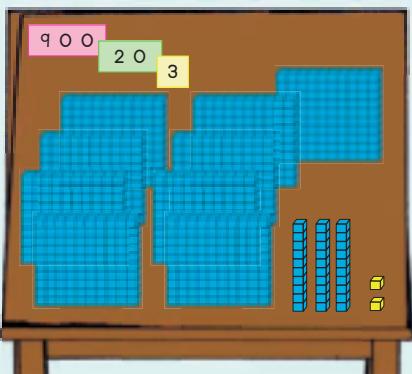
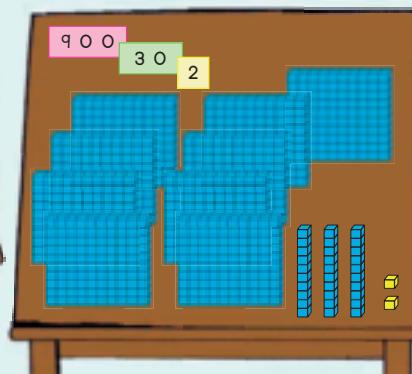
Kotara ya 4



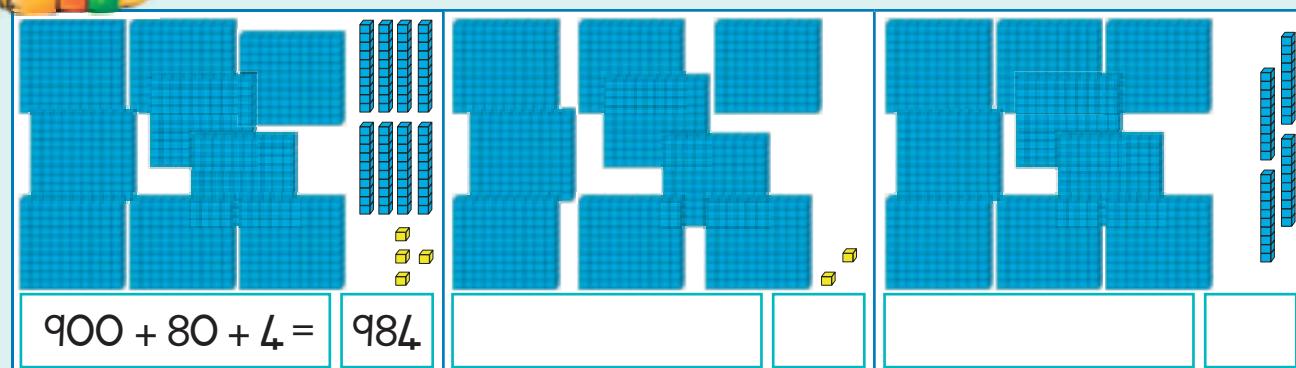
Andile a ri na makhadi ya xiyimela-nkoka na tibuloko ta beyisi ya khume.

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

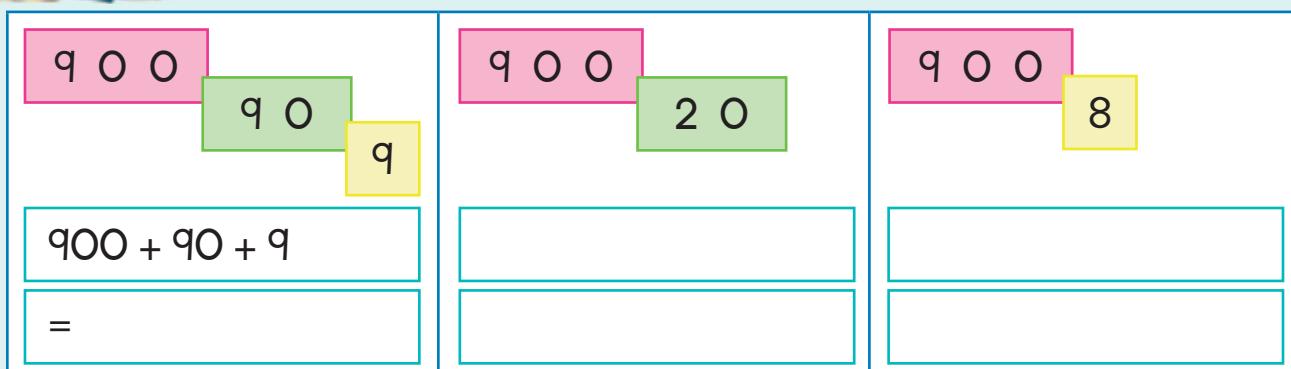
Leswi hi swona leswi kombisiweke hi Gugu. Xana i yini lexi a xi endleke hi ndlela yo hoxeka.



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



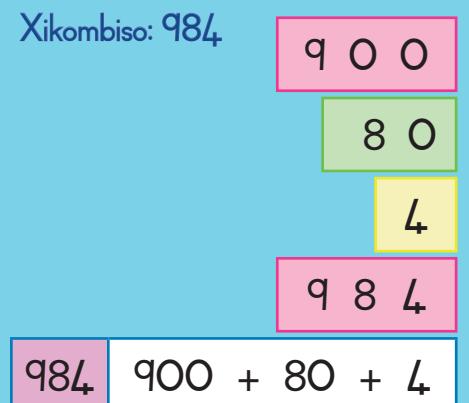
Tlhantlha nomboro ya wena.

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

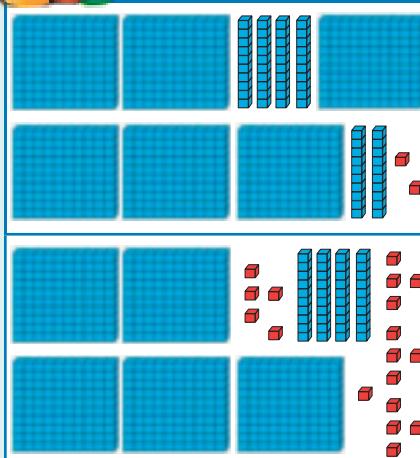
Siku:

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.

50 50 50 kambirhi i 100

300 300

200 200

3 3



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

a. $43 + 44 =$

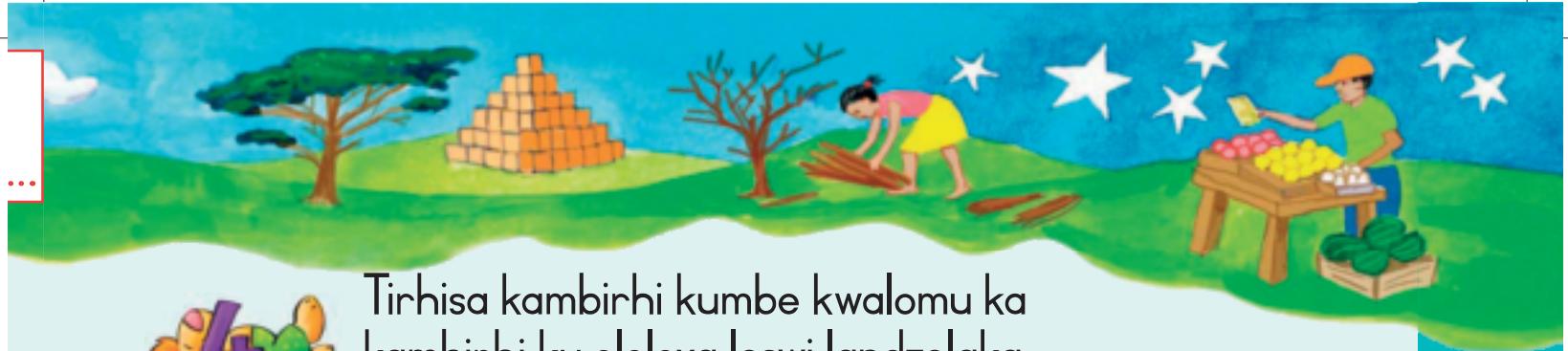
43 kambirhi + 1

$43 + 43 + 1 = 87$

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?



Teacher:
Sign:
Date:

Mayelana na yindlu

Kotara ya 4



Siku ro baka

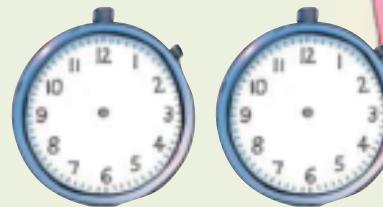
Hahani Phindi u baka xinkwa eka ovhene ya yena.

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 tanihi 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!

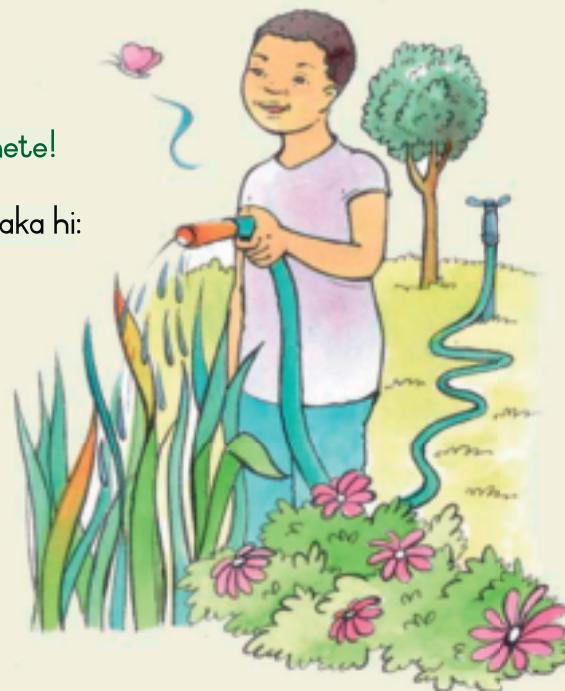
I tilitara ta mati tingani leti hoziphayiphi yi nga ti tirhisaka hi:

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? _____ .



Teacher:
Sign:
Date:

107

Siku:

Ku tirha hi mali

Kotara ya 4



Hlayela tikhoyini na mali ya phepha.

$10 \times \text{R}10 = \text{R } \underline{\hspace{2cm}}$	$20 \times \text{R}20 = \text{R } \underline{\hspace{2cm}}$	$50 \times \text{R}50 = \text{R } \underline{\hspace{2cm}}$
$10 \times \text{R}50 = \text{R } \underline{\hspace{2cm}}$	$20 \times \text{R}100 = \text{R } \underline{\hspace{2cm}}$	$50 \times \text{R}200 = \text{R } \underline{\hspace{2cm}}$
$10 \times \text{R}100 = \text{R } \underline{\hspace{2cm}}$	$20 \times \text{R}50 = \text{R } \underline{\hspace{2cm}}$	$50 \times \text{R}100 = \text{R } \underline{\hspace{2cm}}$
$10 \times \text{R}200 = \text{R } \underline{\hspace{2cm}}$	$20 \times \text{R}100 = \text{R } \underline{\hspace{2cm}}$	$50 \times \text{R}200 = \text{R } \underline{\hspace{2cm}}$
$10 \times \text{R}100 = \text{R } \underline{\hspace{2cm}}$	$20 \times \text{R}200 = \text{R } \underline{\hspace{2cm}}$	$50 \times \text{R}100 = \text{R } \underline{\hspace{2cm}}$
$100 \times \text{R}10 = \text{R } \underline{\hspace{2cm}}$	$100 \times \text{R}50 = \text{R } \underline{\hspace{2cm}}$	$100 \times \text{R}100 = \text{R } \underline{\hspace{2cm}}$
$100 \times \text{R}50 = \text{R } \underline{\hspace{2cm}}$	$100 \times \text{R}200 = \text{R } \underline{\hspace{2cm}}$	

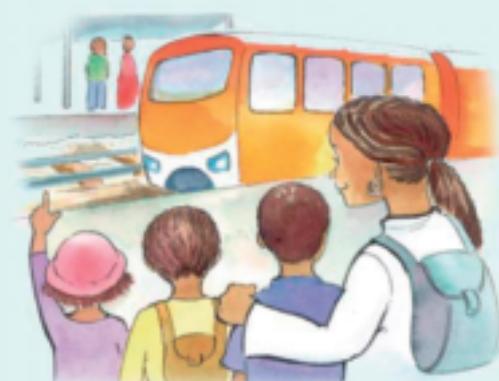


Rendzo ra xitimela.

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.

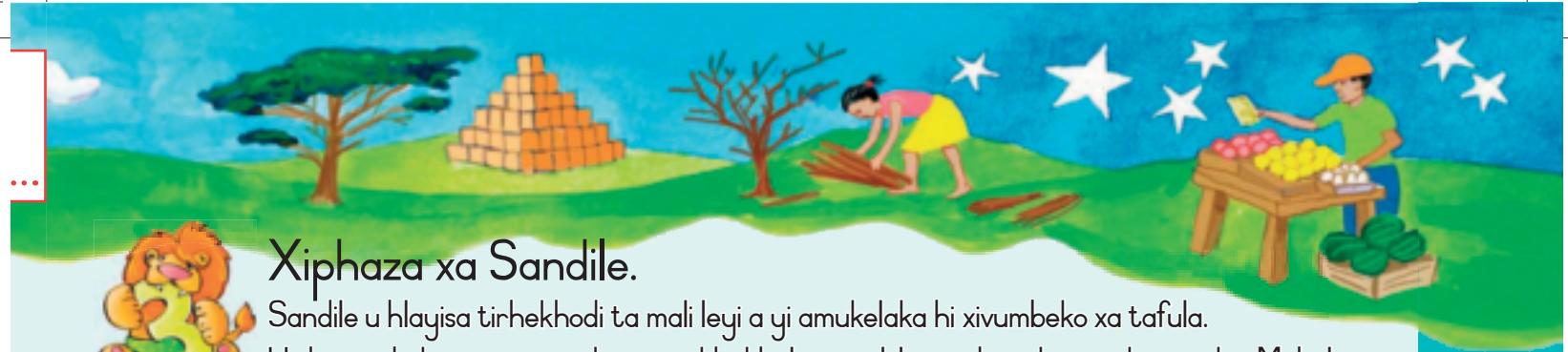


U kuma cinci ya R30.

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		

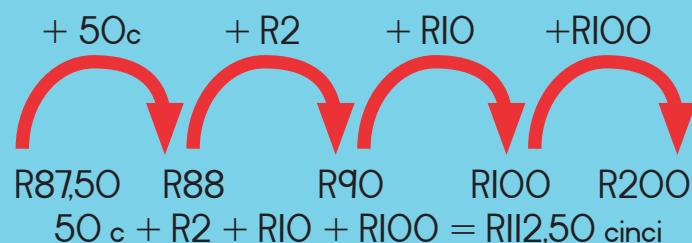


Kuma leswaku cinci yi ta va yini.

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:



Ku hlanganisa

na ku susa kun'wana ku fika eka qqq



A hi ololoxeni xiphiqo.

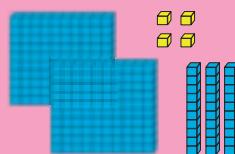
Gavaza u hlengaletile 234 wa switikara.

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

Xana u na switikara swingani sweswi?



Leswi Lisa a swi endleke ku ololoxa xiphiqo xa Gavaza.



Leswi endleke hi Aakar hi leswi.

U dirowile xifaniso.

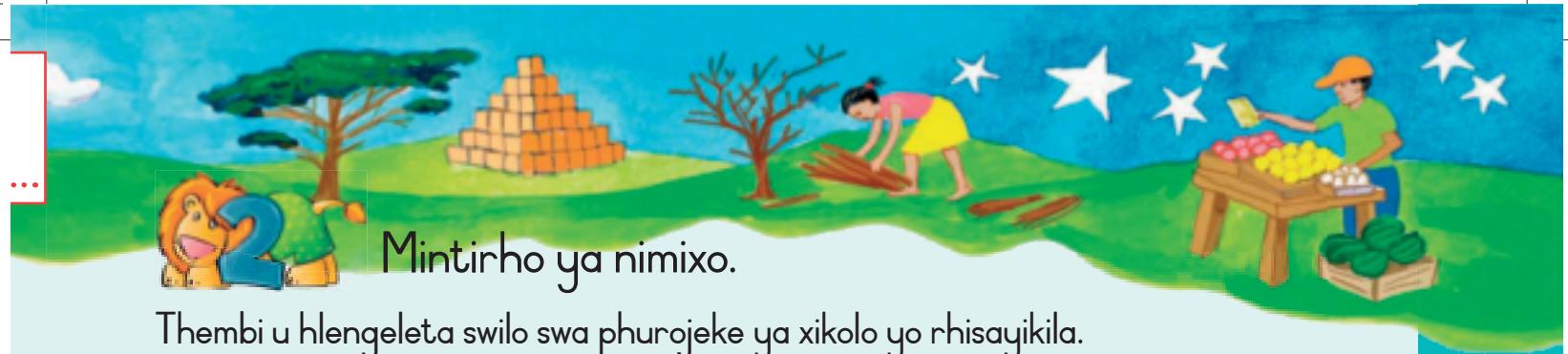


Leswi mavekele ya Lisa ya tibuloko ta beyisi ya khume ya fanisaka xiswona na xifaniso xa Aakar.

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



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 xihixivutiso?

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 xihixivutiso?

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



109

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. $116 +$ _____ $= 232.$

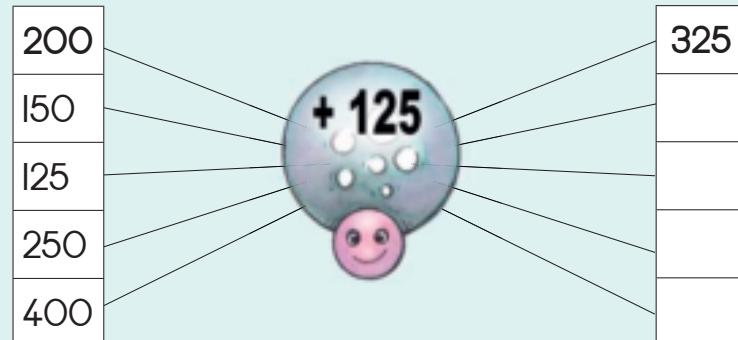
Tsala tinomboro:

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

Lava mindyangu ya tinomboro ta + na -

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



Kambisisa!
Ringanisa!
Lulamisa!

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

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:

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



11 12 13 14 15 16 17 18 19 20

110



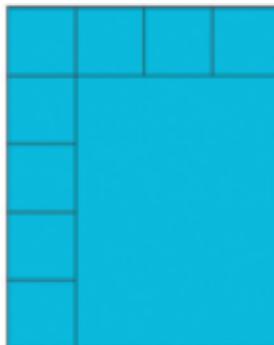
Kotara ya 4



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.



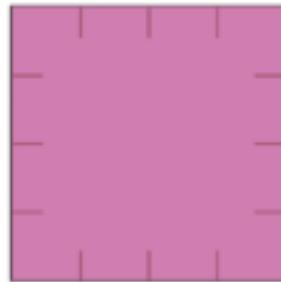
b.



c.



d.

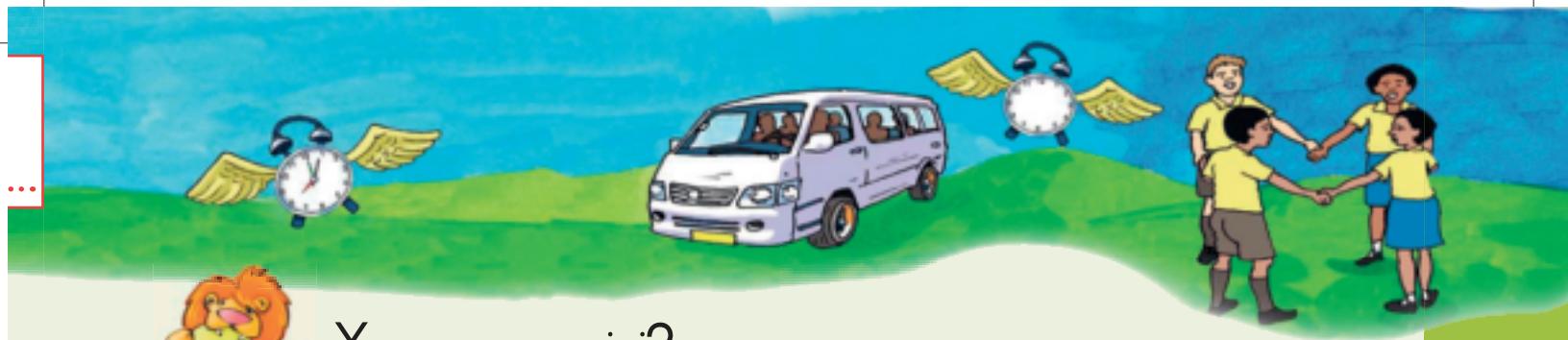


Tshunxa xitekatekisani.



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?

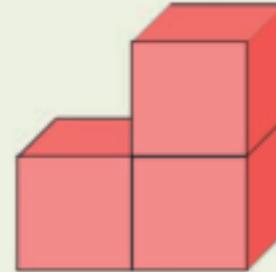
Vuthala: Ku na tindlela timbirhi ta maendlele.



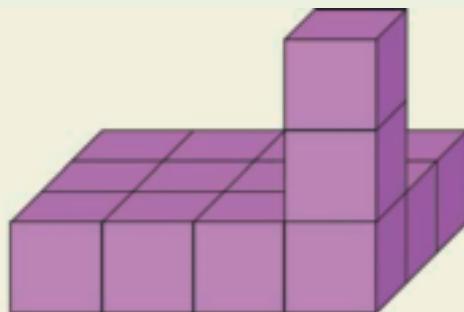
Xana u vona yini?

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!





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.

1000 wa tihunyi ti endla _____ wa tinyandza.



112

Siku:

Yisa eka 10 ya le kusuhi

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.



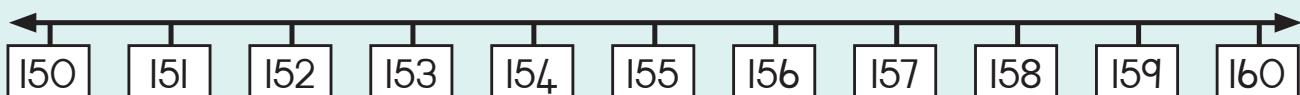
114 yi ta va yini? _____

117 yi ta va yini? _____



159 yi ta va yini? _____

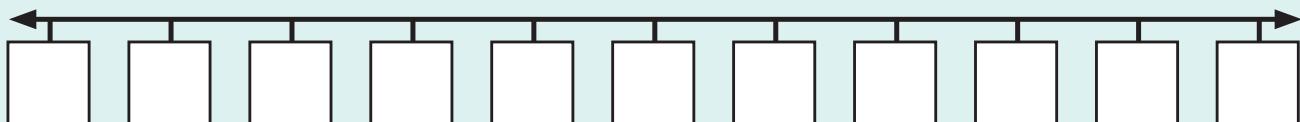
151 yi ta va yini? _____



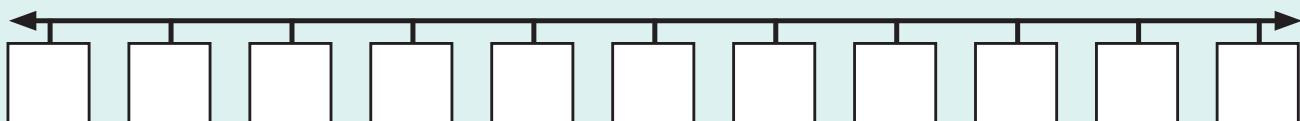
Yisa eka 10 ya le kusuhi.

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?



113

Ku andzisa no avanyisa: vuntlhanu ku fika eka 100

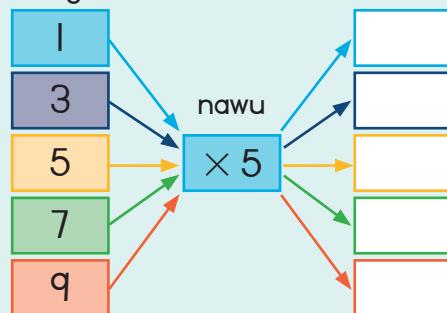
Siku:

Kotara ya 4



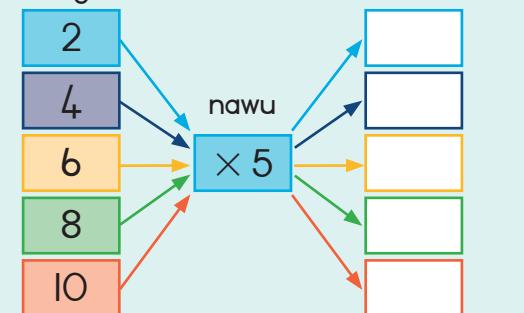
Hetisa dayigiramu ya nkhuluko.

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:

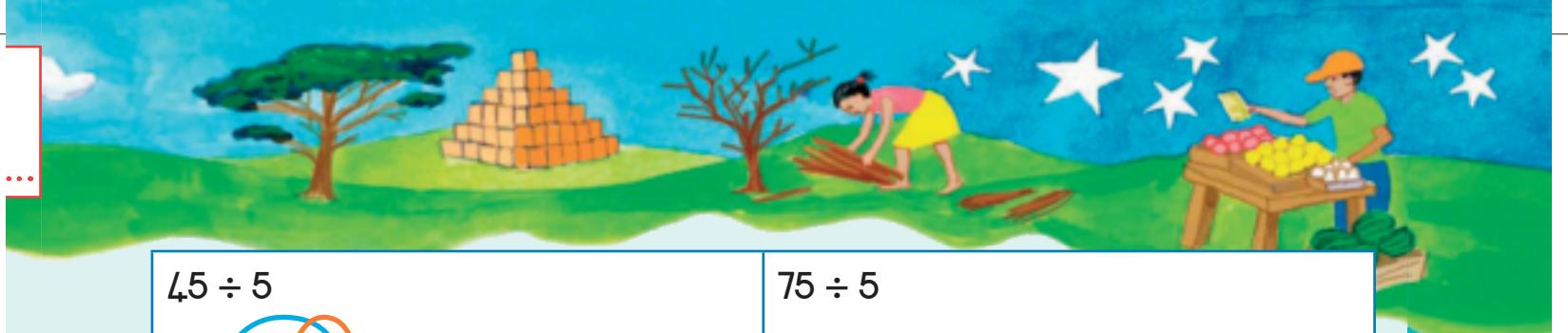
$$12 \times 5$$

$$\begin{aligned}
 &= (10 + 2) \times 5 \\
 &= 50 + 10 \\
 &= 60
 \end{aligned}$$

$$11 \times 5$$

$$13 \times 5$$

$$\begin{aligned}
 &= (10 + 3) \times 5 \\
 &= 50 + 15 \\
 &= 50 + 10 + 5 \\
 &= 65
 \end{aligned}$$



$$45 \div 5$$

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

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

$$= 8 + 1$$

$$= 9$$

$$75 \div 5$$

$$48 \div 5$$

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

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

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

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

$$13 \div 5$$



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.

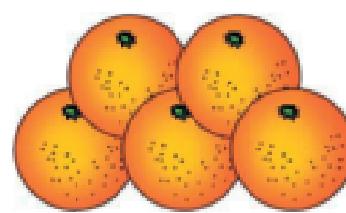
Loko ku ri na ntsengo wa 70 wa swimilana, xana ku na swimilana swingani eka rixaxa rin'wana na rin'wana?



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

Una 85 wa malamula.

Xana a nga tata swisakana swingani?



Teacher:
Date:

114

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, _____	



Teacher:

Sign:

Date:

115

Swin'wana hi ndzingano

Xivoni, xivoni



Tlangu na munghana wa wena mi tirhisayinwe ya
tisetē ta swiphazamiso swo thayila (leswi ngana 14 wa swiphemu) ku suka eka Xitsemiwa xa 10.

Mutlangi uniwana na uniwana u na hafu ya swiphemu [7 wa swiphemu] swa swivumbeko swa
xiphazamiso xo thayila. Ku hava xiphemu lexi anaka na xinwana.

Dirowa ntīla exikarhi ka xiphephana. Lowu wuta va "ntīla wa ntīherieso."

Mutlangi wo sungula u veka xinwe xa swiphemu swa yena ekusahi na ntīla.

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

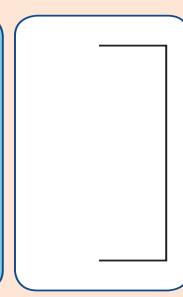
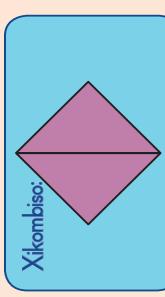
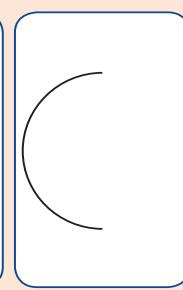
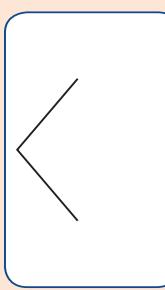
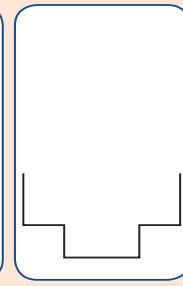
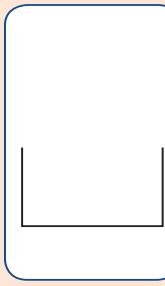
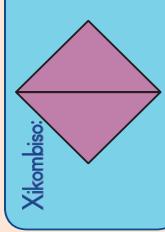
khumbanta kumbe xinwana xa swivumbeko leswi vekiweke.

Yanani emahlweni ku fikela loko swiphemu hinkwaswo swi tirhiswilie.

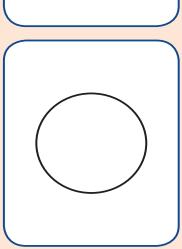
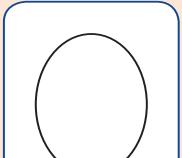
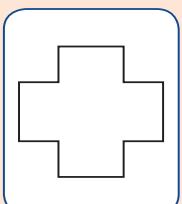
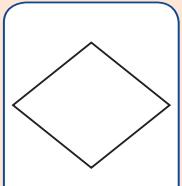
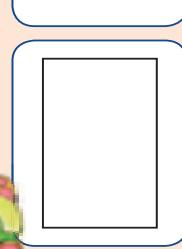
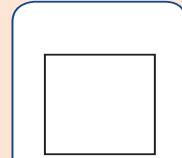
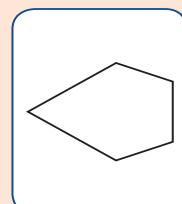
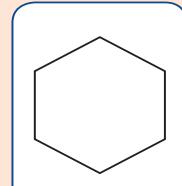
Dirowa tħeloh lerinwana ra xivumbeko.

Kutani kombiha ntīla wa ndzingano.

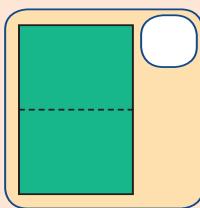
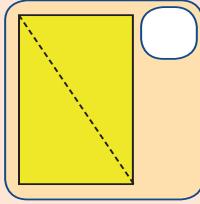
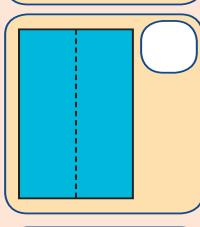
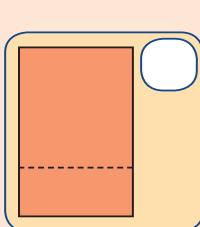
Xikombiso:



Dirowa mintila ya ndzingano eka leswi landzelka:



Gwajula swiphemu leswi nga na mintila ya
ndzingano leji faneleke.



11 12 13 14 15 16 17 18 19 20

106

107

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.

908 917 923 916 907 929 930 910 909 922 933

b. Hlamlundzingano kumbe fadzenga.

Hlanganisa tinhlayo-fadzenga timbirhi. U kuma nhlayo _____.
Hlanganisa tinhlayo-fadzenga timbirhi. U kuma nhlayo _____.
Uhlanganisa tinhlayo-fadzenga tinhharhu. U kumanhlayo _____.



Ku byala mirhi.

Leyinndella jinwana yo byala 48 wa mirhi eka tinxaxa leti ringanaka.



Hi ngeatsala: $2 \times 24 = 48$ (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 riċaxa).
Hlayelha tinxaxana mirhi eka xifaniso xinwana na xinwana lexi ngalaha hansi.
Tsala xivulwa xa tinomboro X na ÷ ku yelarisa.

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



Leti tsondzeriweke hi xirhendzevutana xa wasi: Ku hlagħela hi _____.

Tsala patironi:

Leti tsondzeriweke hi xirhendzevutana xa riħla: Ku hlagħela hi _____.

Tsala patironi:

Khakhuletqa.

- | | | |
|----------------------------|------------------------|------------------------|
| a. $872 + 2 + 2 + 2 =$ | b. $820 - 2 - 2 - 2 =$ | c. $844 + 2 + 2 =$ |
| d. $832 - 2 - 2 - 2 =$ | e. $883 + 2 =$ | f. $842 - 2 - 2 =$ |
| g. $801 + 2 + 2 + 2 + 2 =$ | h. $815 - 2 =$ | i. $846 - 2 - 2 - 2 =$ |

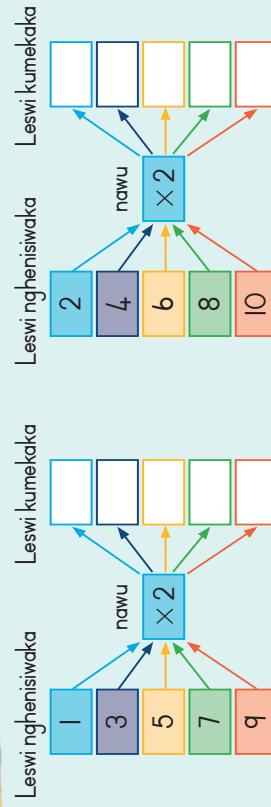
Teacher:
Sign:
Date:

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

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

Ku ondžisa 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

$$46 \div 2$$

$$= (40 + 6) \div 2$$

$$= (40 \div 2) + (6 \div 2)$$

$$= 20 + 3$$

$$= 23$$

$$74 \div 2$$

$$= (70 + 4) \div 2$$

$$= (70 \div 2) + (4 \div 2)$$

$$= 35 + 2$$

$$= 37$$

$$47 \div 2$$

$$= (40 + 7) \div 2$$

$$= (40 \div 2) + (7 \div 2)$$

$$= 20 + 3$$

$$= 23 \text{ nsalo i!}$$

$$75 \div 2$$

$$= (70 + 5) \div 2$$

$$= (70 \div 2) + (5 \div 2)$$

$$= 35 + 2$$

$$= 37$$



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.

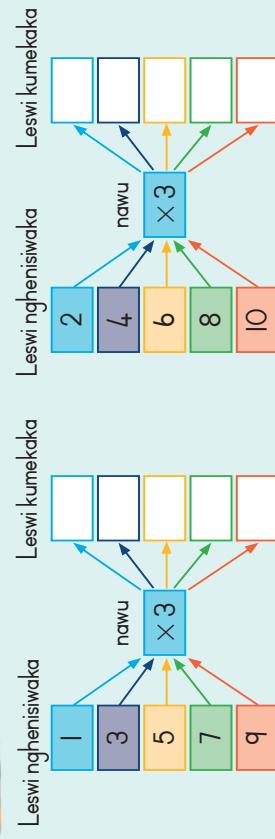
Loko ku ri na 80 wa swimilana, xana ku na swimilana swingani eka rixaxa rin'wana na rin'wana?

12×2	11×2
$= (10 + 2) \times 2$	$= (10 + 1) \times 2$
$= 20 + 4$	$= 20 + 2$
$= 24$	$= 22$
18×2	22×2
$= (10 + 8) \times 2$	$= (20 + 2) \times 2$
$= 20 + 16$	$= 20 + 4$
$= 36$	$= 24$

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

Ku andzisa no avanyisa: vunharhu ku fika eka 100

Hetisa dayigiramu ya nkulu.



Kotara ja 4

$$63 \div 3$$

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

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

$$= 20 + 1$$

$$= 21$$

$$65 \div 3$$

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

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

$$= 20 + 1$$

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

$$96 \div 3$$

$$98 \div 3$$

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.

Rixa ka rinwana na rinwana rina 3 wa swimilana.

Xana ku na swimilana swingani exirhapani?

$$11 \times 3$$

$$Khakhuleta:$$

$$12 \times 3$$

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

$$= 30 + 6$$

$$= 36$$

$$19 \times 3$$

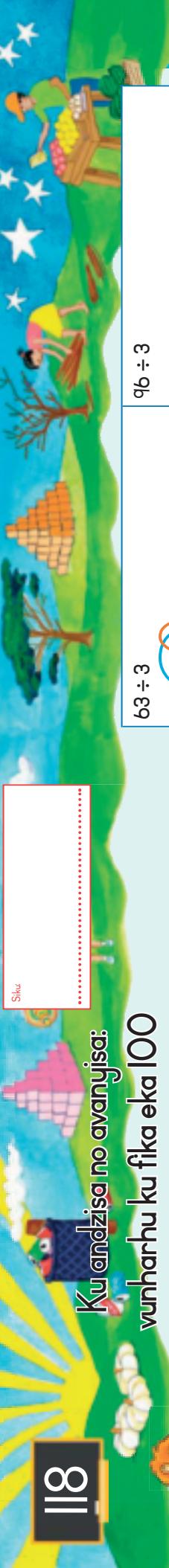
$$17 \times 3$$

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

$$= 30 + 21$$

$$= 30 + 20 + 1$$

$$= 51$$



11

Tipatironi ta tinomboro: vunharhu ku fika eka l 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

Bodo ya tinomboro ta 901 ku fika eka l 000

901	902	903	904	905	906	907	908	909	910
911	921	922	924	925	927	928	929	930	
931		933	934		936	937		939	940
941		942	943		945	946		948	949
951		952		954	955		957	958	960
961			963	964		966	967		969
971			973		975	976		978	979
981			982		984	985		987	988
991				993	994		996	997	
901		902	903	904	905	906	907	908	999 1000

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



Leti tsondzeriweke hi xirhendzevutana xa xilamula: Ku hlayela hi _____.

Tsala patironi: _____

Leti tsondzeriweke hi xirhendzevutana xa riħlaża: Ku hlayela hi _____.

Tsala patironi: _____

Khakhuletta.



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. $8C2 + 3 + 3 + 2 =$ _____ h. $89 - 3 =$ _____ i. $880 - 3 - 3 - 3 =$ _____

Tatisa tinomboro leti sijiweke.

Khalara tibuloko ta tinomboro leti sijiweke hi riħlaża. Khalara tibuloko to basa leti inga na tinomboro hi muhlevo wo tħawwka.

Xana u vona patironi ya njhani?



Hetisa tipatironi.

a. Hlanganisa 4 wa vanħarhu eka 981. 984, 987, 990, 993

b. Hlanganisa 5 wa vanħarhu eka 973. _____

c. Susa 4 wa vanħarhu eka 975. _____

d. Susa 3 wa vanħarhu eka 947. _____

e. Hlanganisa 2 wa vanħarhu eka 932. _____

Teacher:	Sign:
Date:	

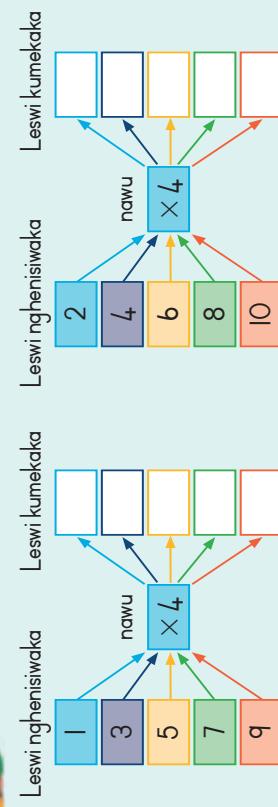
Sku:

11 12 13 14 15 16 17 18 19 20

120

Ku anodzisa no avanyisa: vumune ku fika eka 100

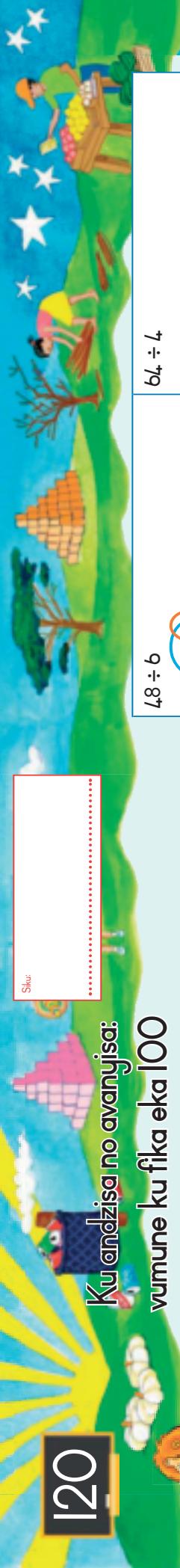
Hetisa dayigiramu ya nkuluuko.



Hetisa tafula leru nga laha hansi:

×	1	2	3	4	5	6	7	8	9	10
4										

Kotara ja 4



$$48 \div 6$$

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

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

$$= 10 + 2$$

$$= 12$$

$$45 \div 4$$

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

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

$$= 10 + 1$$

$$= 11$$

$$64 \div 4$$

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

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

$$= 10 + 2$$

$$= 12$$



Olooxa swiphiqo leswi landzelaka:

Tony una 36 wa swiwiisi.

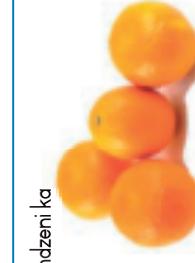
U dyo 4 wa swiwiisi sikru rinwana na rinwana.

Xana u ta dyo swiwiisi 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?



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

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

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 ya 4

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



Leti sonderiweke hi xirhendzevutana xa rihlaza:
Ku hlayela hi _____.

Tsala patironi:

Leti sonderiweke hi xirhendzevutana xa xivunguvungu:
Ku hlayela hi _____.

Tsala patironi:



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

Bodo ya timomboro ta q01 ku fika eka 1 000.

q01	q02	q03	q04	q05	q06	q07	q08	q09	q20
q11	q21	q23	q24	q25	q27	q28	q27	q28	q27
q31	q32	q33	q35	q36	q37	q37	q39	q40	q40
q41	q43	q44	q45	q45	q47	q48	q49	q49	q49
q51	q52	q53	q55	q56	q57	q57	q59	q60	q60
q61	q63	q64	q65	q65	q67	q68	q69	q69	q69
q71	q72	q73	q75	q76	q77	q77	q79	q80	q80
q81	q82	q83	q84	q85	q87	q88	q89	q89	q89
q91	q92	q93	q95	q96	q97	q97	q99	q99	q99
q01	q02	q03	q04	q05	q06	q07	q08	q99	1000

Tatisa tinomboro leti sijuweke.

Khalara tibuloko ta tinomboro leti sijuweke 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.

Teacher:
Sgn:
Date:

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

Swiphemu leswi ringanaka swa xihéri

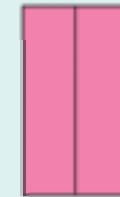
Hafu yin'we, hi ndlëla yini na yihî leju u yi
tsemaka hayona.

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



Kambisisa tindlëla to hambanan to endla hafu yin'we.

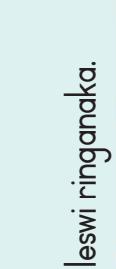
1. Petsa phepha ra yinhamune hi hafu eka thelo ro leha. Tsema phepha hi hafuldhaka ku petsiweke kona. Xinwana na xinwana xa swiphemu leswi swa ringana hi sayizi. Xiphemu xinwana na xinwana i hafu ($\frac{1}{2}$) ya yinhamune yo sungula.



2. Petsa phepha rinwana ra yinhamune hi hafu ri hingakanya. Tsema phepha hi hafuldhaka 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.



Swin'wana 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.

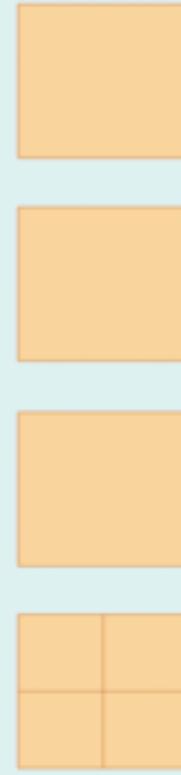
Kotara ja 4

Tisangwejjî ta lanci.

Thabo na 3 wa vanghana va yena va endla tisangweji 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



lanci.

lanci.

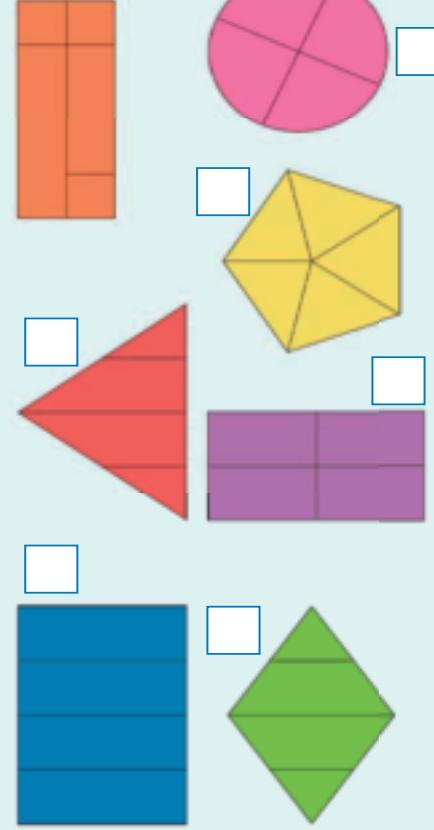
Ku avanyisa eka tikotara



lanci.

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

Gwajula (✓) swifariso leswi kombisaka tikotara.



1 2 3 4 5 6 7 8 9 10

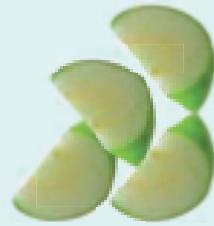
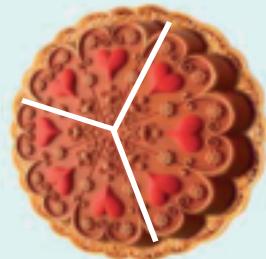
11 12 13 14 15 16 17 18 19 20

123

Swiphiqo swa swiphemu



Bula na vanghana va wena hi swiphemu.



Kotara ja 4

Sku:

b. Manana u nyikile unwana na unwana wa vanghana vamina 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. Mudzaberu 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 intoleranga
ta ndzi pifano ku hlawa la
murihele lama faneleke.



Nhlamulo hi yih?

Nhlamulo hi yih?

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



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Kotara ja 4

Swilo swa 3 wa matihelo

Langu ta swifaniso.

Hi wihintlawa lowu kombisatka tibolo, tisilindara na mabokisi?



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



--	--

Nkhwatihata nhlamulo leyi faneleke.

a. Tamatisi ri na xivumbeko xa bolo/bokisi/silindara.

b. Nghilazi yo nwa hi yona yi na xivumbeko xa bolo/bokisi/silindara.

c. Buku yi na xivumbeko xa bolo/bokisi/silindara.



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



Vuthwixi na ku khotseka.

Swilo swin'wana swo tiya swi na vuandalo buya xiphopherhele.
Swin'wana swi na vuandalo bujo khotseka.

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

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

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 tlheloo rin'wana na rin'wana?

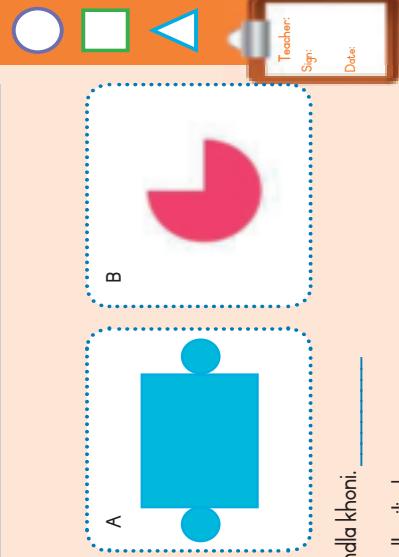


Nete i yini?

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.



Swiphemu swin'wana

Vula mavito ya swiphemu.

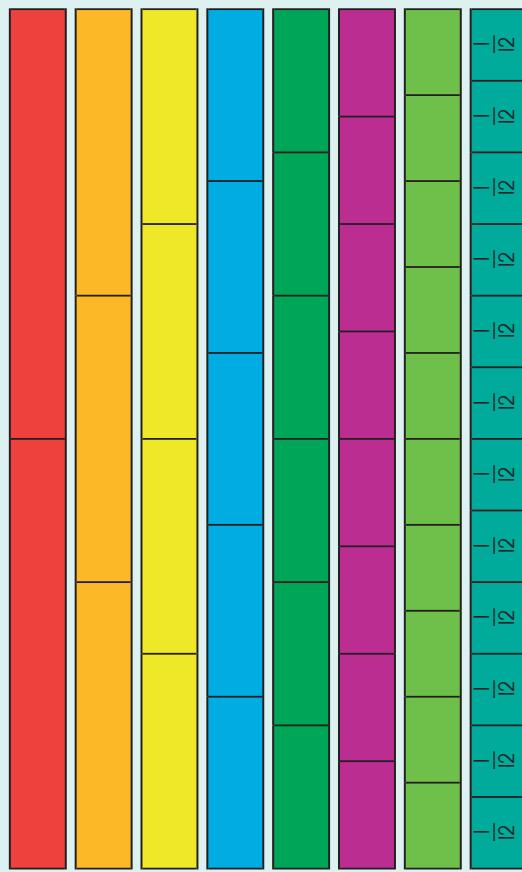
Tsala xiphemu xa swifaniso leswi nga laha hansi.



Kotara ja 4

Siku

Khumbi ra swiphemu.



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? _____

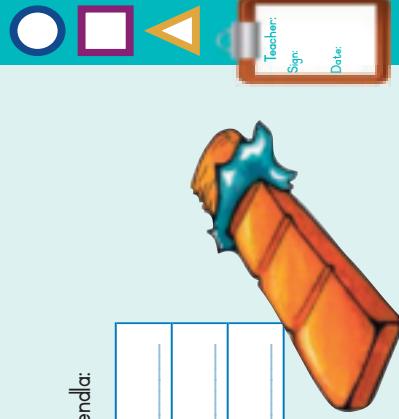


Hlamula swivutiso.

a. Siżwie u na swiphemu swa chokoleti swa mune. U nyika munghana wa yena xinwe.
Xana i xiphemu muni xa chokoleti lexi a salekka na xona? _____

b. Yasmin u na malamula mambirhi. U avelana na Ann.
Xana u sale na xiphemu muni? _____

c. Maria u xava 5 wa switina swa chokoleti. 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?



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



Mikhakhuleto ya xihatla.

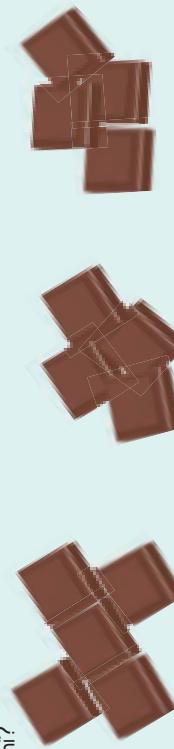
Siku

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



Avani leswi saleke.

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



Va naga koto ku avelana ntseña 12 wa swikwere swa xheri. Unhwana na unhwana u kuma swiphemu swa ntsevu. Xiphemu lexinga sala xi pheemiwa hi hafu, kutani unwana na unwana una $6\frac{1}{2}$ ya swiphemu.



- a. Ephatuni 25 wa swiwiitsi swa chukela swi aviwa exikarhi ka 10 wa vana.
Ava hi infanelol Dirowa swifaniso kulkupfuna.



Unhwana na unhwana u kuma _____ wa swiwiitsi.

- b. Ava 37 wa swiwiitsi exikarhi ka 4 wa vana.

Unhwana na unhwana u kuma _____ wa swiwiitsi.

- c. Ava 48 wa swiwiitsi exikarhi ka 5 wa vana.

Unhwana na unhwana u kuma _____ wa swiwiitsi.

- d. Ava 73 wa swiwiitsi exikarhi ka 10 wa vana.

Unhwana na unhwana u kuma _____ wa swiwiitsi.



Swiphemu swa tanigiramu

Tanigiramu xi phazamiso xo khale xa machajina lexi endiliwka 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 enda xikwere lexitsono. Xana xikwere lexitsono i xiphemu muni xa xikwere xa xheri (wasi exfanisweni)?

Ku tinhisa tanigiramu.

Tsema titanigiramu timbirhi eka Xitsëmiwa xa 12 kutani u tsala vito ra xiphemu xinwana na xinwana xa xikwere xa xheri. (Leswi swiphemu swa Tanigiramu ya ntüyo).

Tsala vito ra wena endzhaku ka xiphemu xinwana na xinwana leswaku u ta kota ku kuma swiphemu swa wena loko ntlangu wu herile.

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

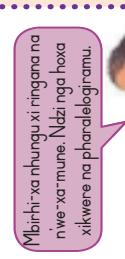
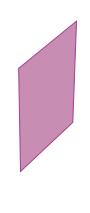


Tlangu na 4–8 wa vatlangi ni tinhisa swiphemu swa nwinwa swa tanigiramu.

1. Vatlangi va nyketanaku va muaveri.
2. Muaveri u teka xiboho xo xiphemu lexi faneleke ku ngħenisiwa hi mutlangi unwana na un'wana eka switħrisiwa
3. Mutlangi unwana na unwana u vhumbba loko khoyini yi ta wa hi nhlekko kumbe hi ncila kutteri muaveri u hoxa khoyini.
4. Muaveri u ava switħrisiwa hi mfanelo exikarhi ka lava vħumbek swona. (A ngä fanelku xavisa xiphemu xinwe kumbe swo ta'la ku kota ku kuma swiñwana swa nkoka lowu ringanak).
5. Leswi salaka swi ngä kotelekku aviva swi tħasha enkwamenti swi yimela ku tkalga loka llandzelħaka.
6. Vatlangi hinkwavo va kambissa loko ku ava ku endliwe hi ndella lej faneleke.
7. Loko mutlangi a kuma xihoxo, muveri u hakelandżiho wa $\frac{1}{8}$ wa xikwere xa xheri eka mutlangi loju a ngarħanga a kuma xihoxo.
8. Mutlangi loju a ngariki na swiphemu a ngat teka swiñwana na swiñwana swa leswi sealek enkwamenti.
9. Ntlangu wu ya emahħeni ku fikela loko mutlangi unwana na unwana a vle muaveri.



Unwana na unwana u faneleku hoxa kota ja seje ja tanġiġmu enkwamenti.



28a

Kotara ja 4

Ku pima vundzeni

Hiku elléketa ka wena xana
i tikhapu tingani leu nga
tadaka xibye leu?



Tirhisxa xibye xo
chela xa bodhlela ra
pulasitiki na khapu.

I yini vundzeni bya khapu
yinwana na yinwana leyj
taleke?



A wubohéku vula
tiltarra kumbé timilitara.

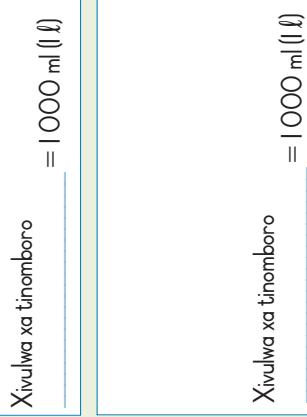
Xibye xo chela xa litaro

Endla litaro.

Kuma andlala yo endla litaro hi ku turhisanta wo hambaran wa swihalaki.



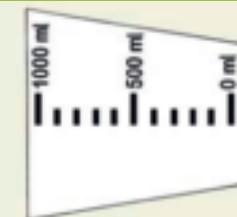
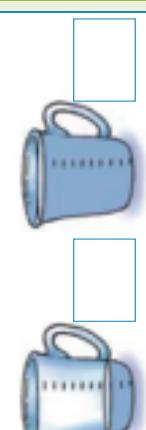
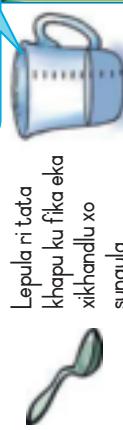
Xivulwa xa tinomboro: $500 \text{ ml} + 500 \text{ ml} = 1000 \text{ ml (l)}$



Loko hi tsala mifungho ya metnik, hi siyanndhawu lejitsongo exikantika dijiti yo hetelela na
mfungho. Xikombiso, hi tsala 3 l kungari 3l; 299 g ku ngarri 299g; 15 km kunga ri 15km.

Teacher:
Sign:
Date:

Vundzeni bya khapu i 10
kasi vundzeni bya khapu
ley taleke i.



Hi pima ntalo lowutsongo wa swihalaki hi timilitara (m).

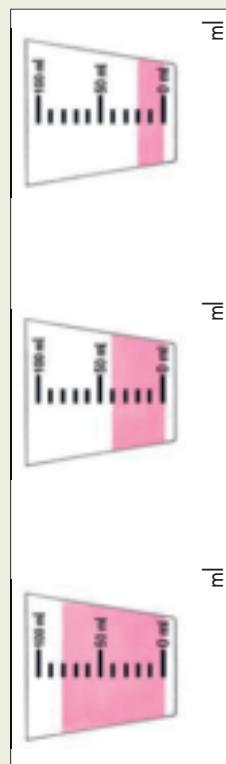
Khapu yo pima murhi yi khoma 10 ml, leswi swi nga
swilepulana swimbirhi.

Hi pima ntalo lowukulu hi titlata (l).

Kuna gidi rin'we ra timilitara eka litara.

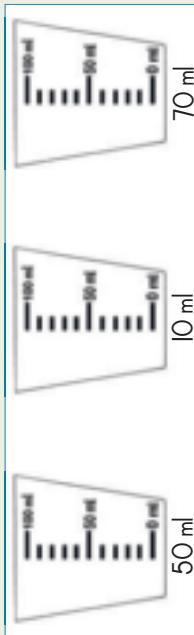
Swihalaki swo tanahi kwih?

Ku na ti-mi ta swihalaki tingani eka jeje yinwana na yinwana?



Swihalaki swo tanahi kwih?

Swahata tikhapu
ta mirhi ku kombisa
ntalo ekayinwana
na yinwana.



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

28a

Kotara ja 4

Entlangjari Piret tani u chela



Hinkarhi waku $\frac{1}{2}$ wa vatlangi vangani lavanga avelandaka?

- a. Vatlangi vangani lavanga avelandaka?
1 litera _____ 4 wa tilitara _____
b. Xana ku laveka ja juzi yo tanihii kwhi eka:
8 wa vatlangi _____ 9 wa vatlangi _____ 12 wa vatlangi _____



Tilitara na militara (ml)

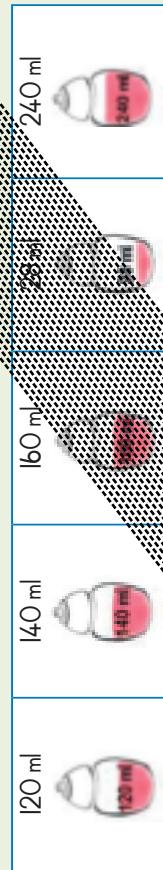
$$1 \text{ litera} = 1000 \text{ ml} \quad \frac{1}{2} \text{ ya litara} = \text{ ml} \quad \frac{1}{4} \text{ ya litara} = \text{ ml}$$

$$25 \text{ ml} = \text{ ya litara} \quad 50 \text{ ml} = \text{ ya litara}$$



Endla hafu ya litara

Fungha (✓) 3 wamitsengo leyi hanganaka yi eejeetan qabu.



Masi hafu ya militara

Ku salé juzi ya militara kwhi ka:

- a. 8 wa vasek _____
b. 16 wa vasek _____
c. 12 wa vasek _____



Bara ja juzi ya Bongi

Eka jeke, Bongi u tirthisa juzi ja juzi. Kuma leswaku Bongi u tirthisa juzi ja juzi. Tjekke tikhapu ta juzi.

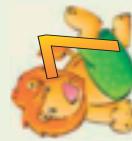
Tjekke	Tikhapu ta juzi	Kotara ja juzi	Tikhapu ta juzi	Tikhapu ta juzi
1				
2				
3				
4				
5				

Endla litara



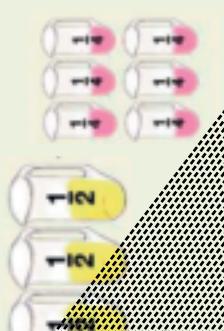
Fungha (✓) 3 wamitsengo leyi hanganaka yi eejeetan qabu?

- a. _____ $\times 200 \text{ ml}$
b. _____ $\times 50 \text{ ml}$
c. _____ $\times 250 \text{ ml}$
d. _____ $\times 100 \text{ ml}$
e. _____ $\times 500 \text{ ml}$



Loko xinkhubuya si xherie

Xinkhubuya xa Thandi xi herie. Ku na swo maleduu ja.
Ku salé juzi ya xitsishopana yo tanihii kwhi?
Ku salé juzi ya xivunguvungu yo tanihii kwhi?
Thandi u Hanganisa tjuzi letimbirhi.
Xana a ngaa tata tjikee tingan?



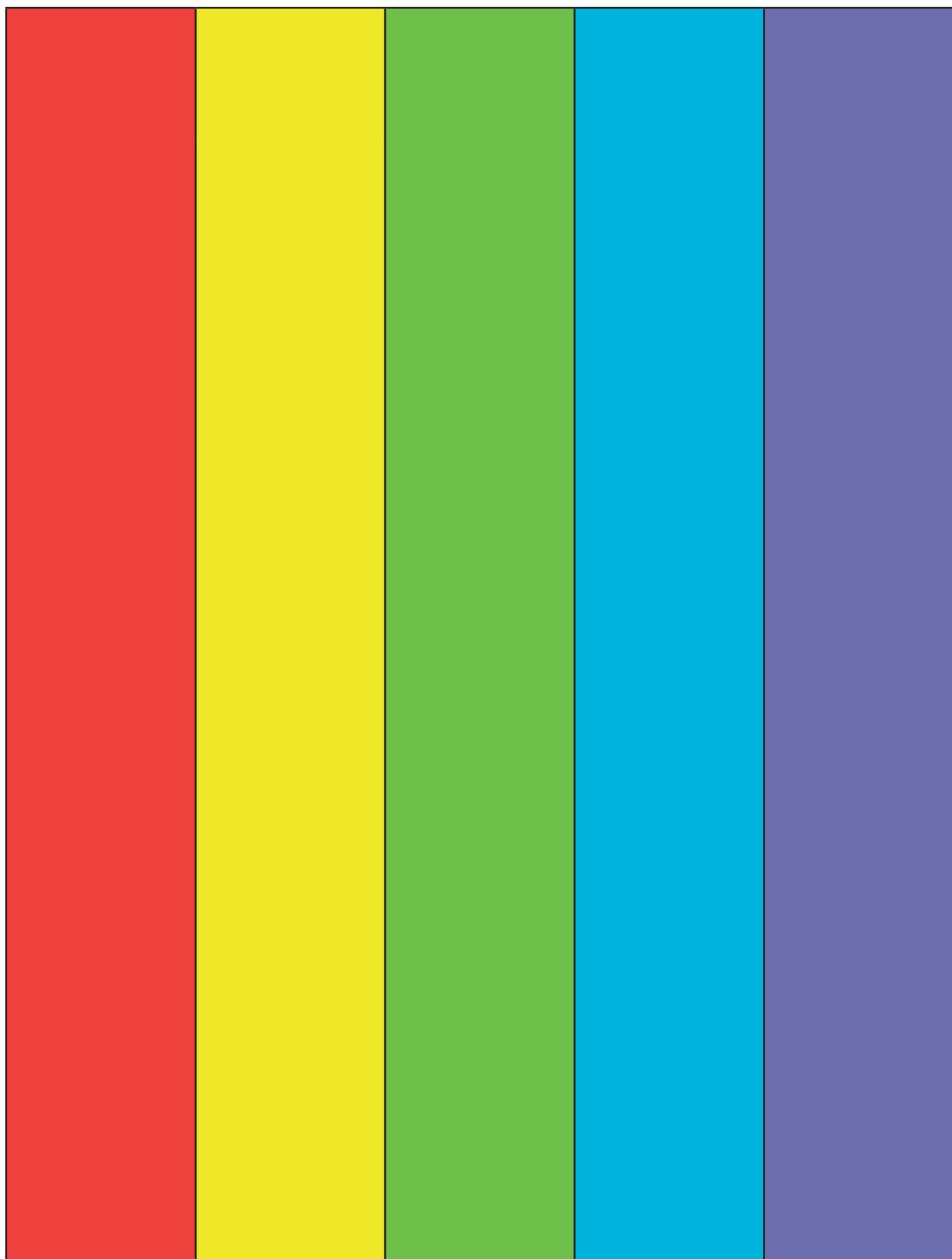
1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

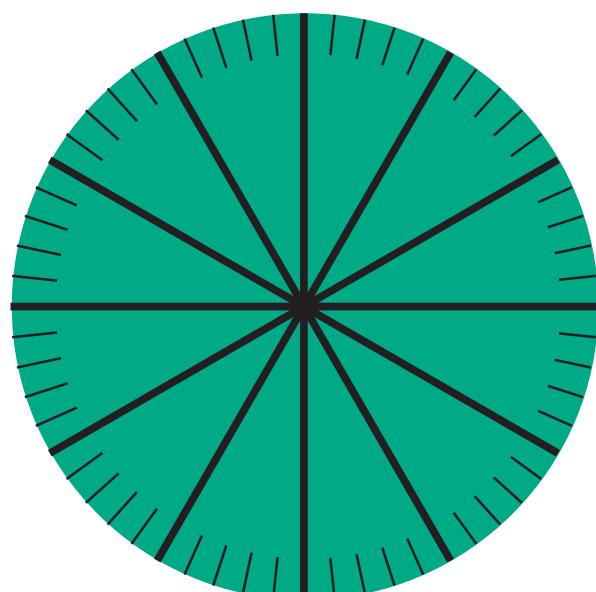
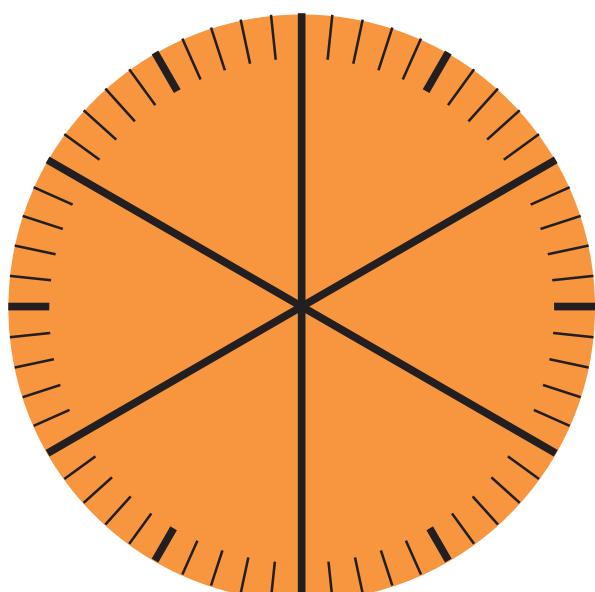
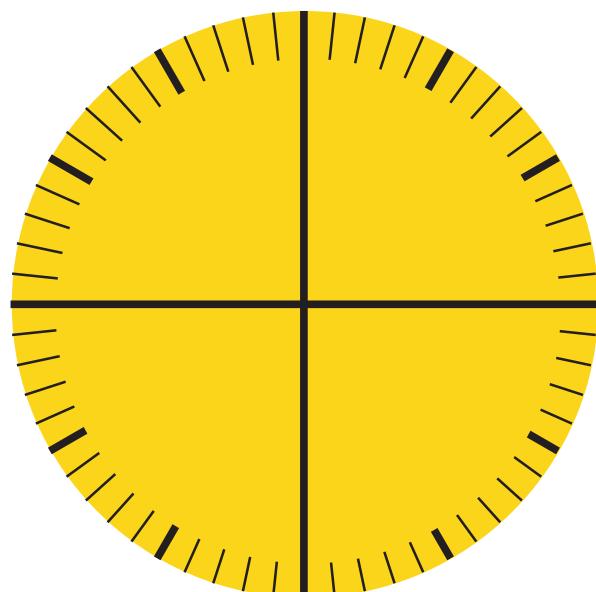
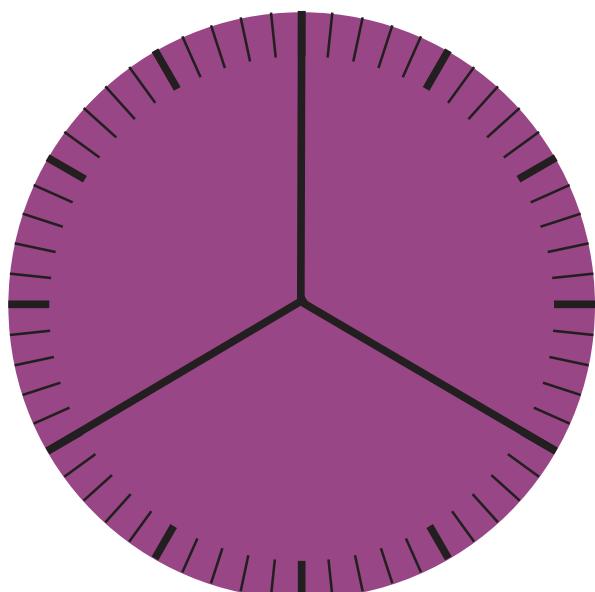
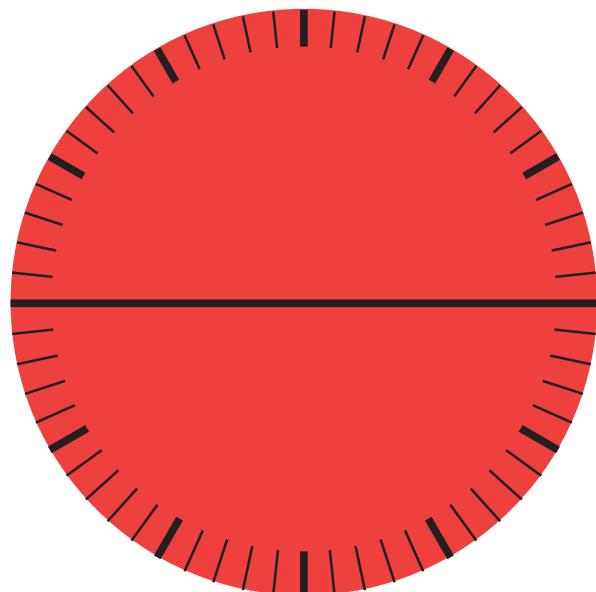
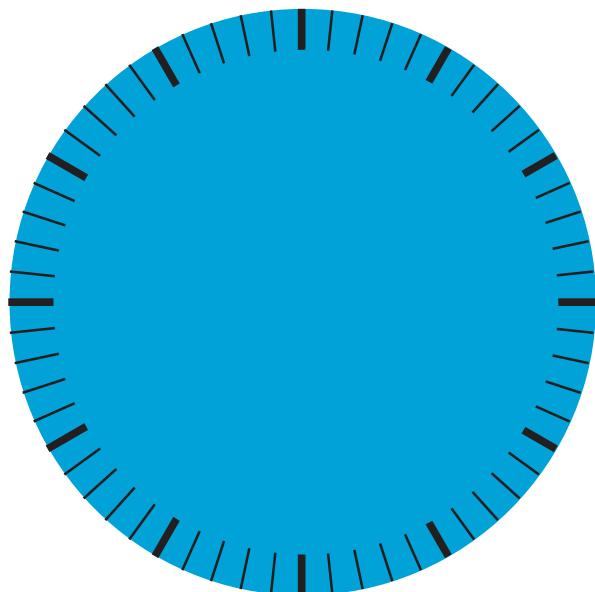
Teacher: _____
Sign: _____
Date: _____

Handwriting

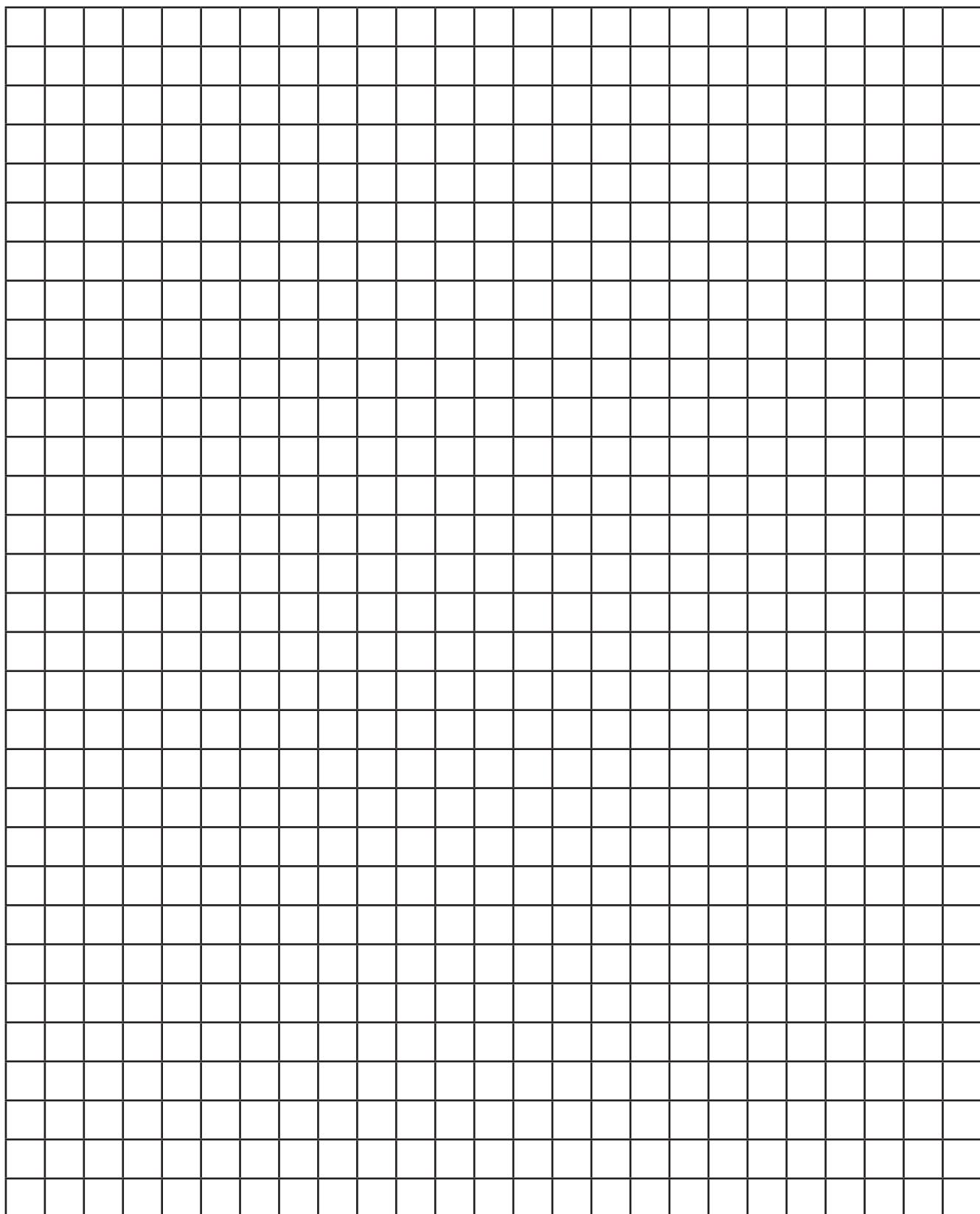
Xitsemiwa xa 5



Xitsemiwa xa 6



Xitsemiwa xa 7

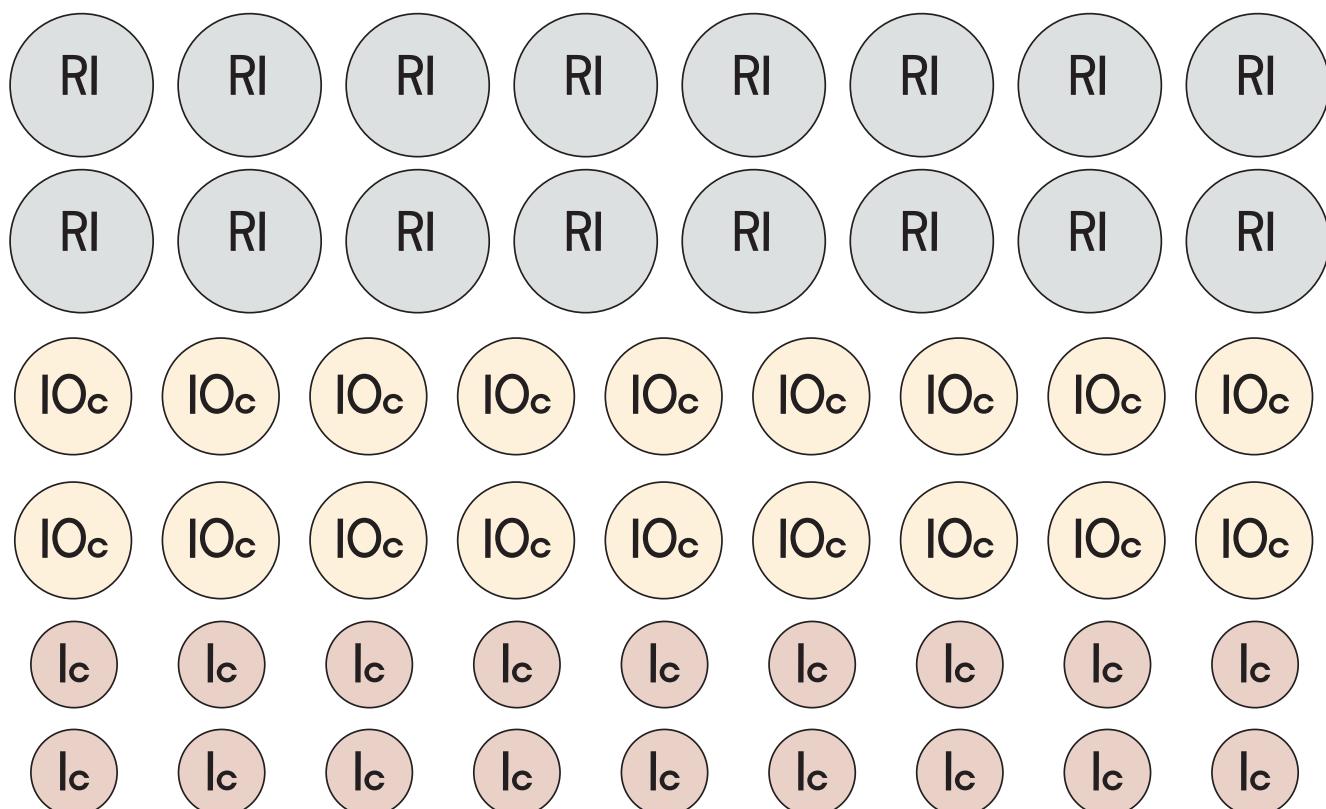


Xitsemiwa xa 8

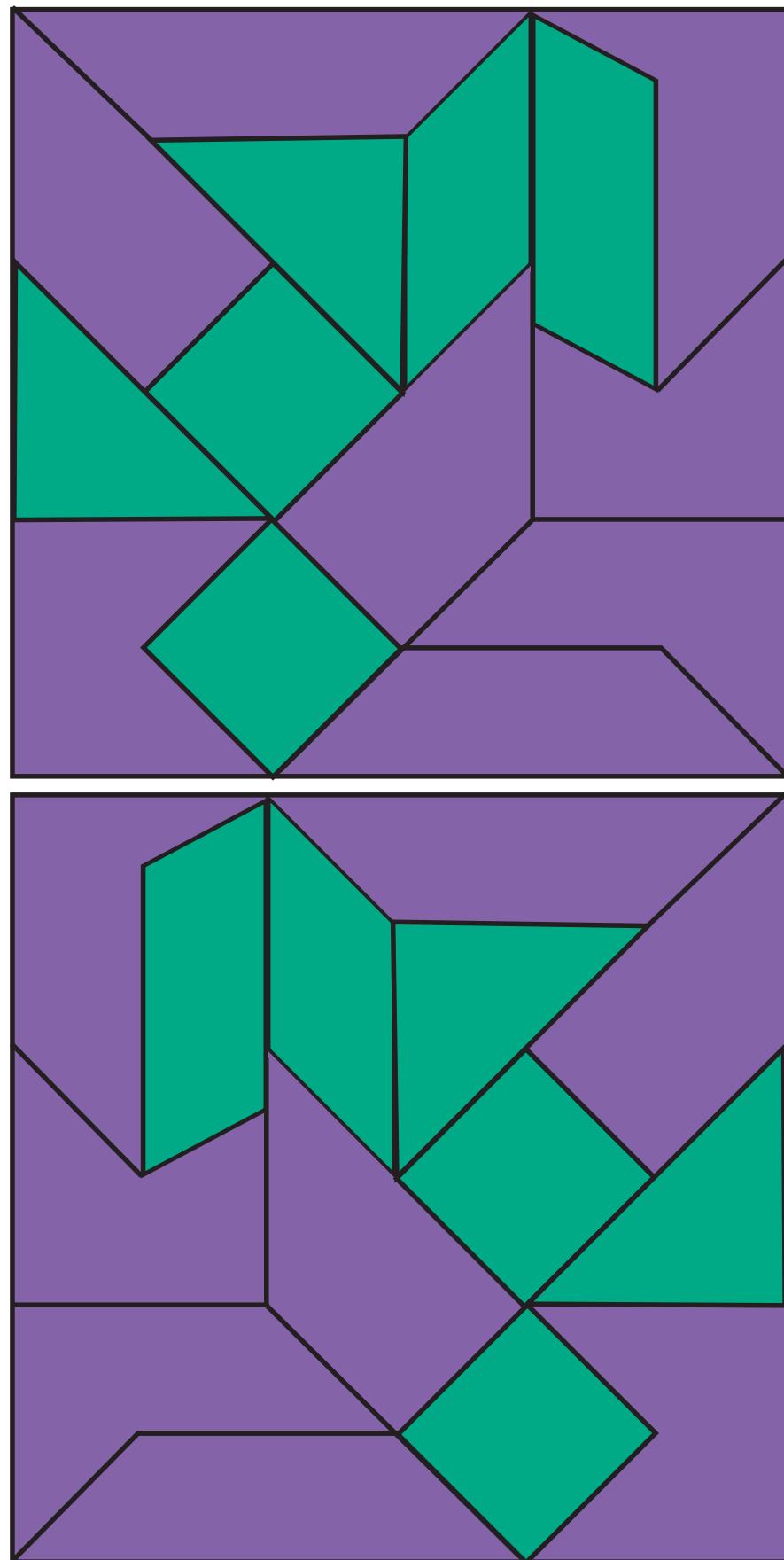
Ic	
IOc	
Ri	
RIO	
RIOO	

Xitsemiwa xa 9

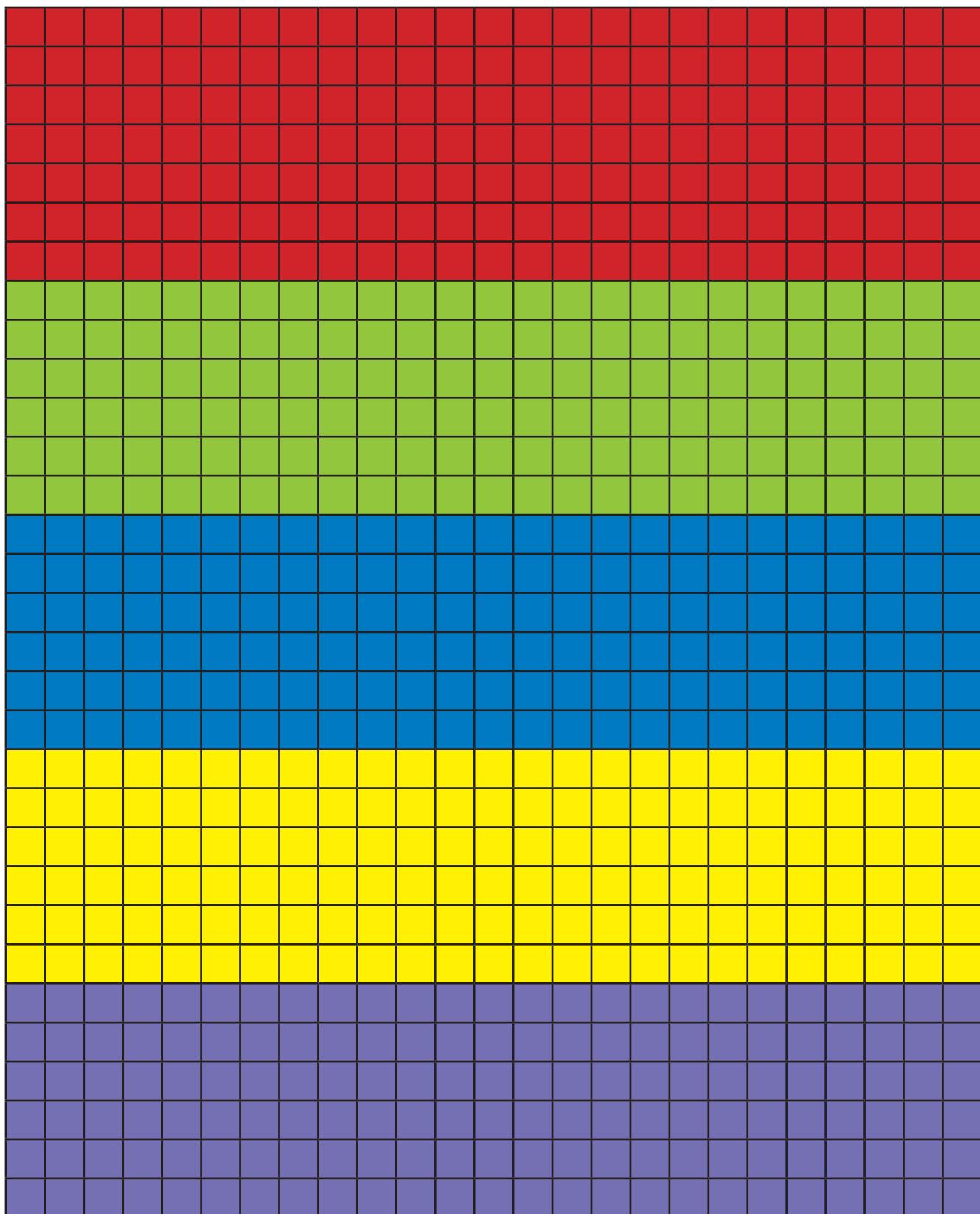
RIOO	RIOO	RIOO	RIOO
RIOO	RIOO	RIOO	RIOO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO



Xitsemiwa xa 10



Cut-out II



Cut-out I2

