

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

Vumbiwa ra Afrika-Dzonga (1996) ri na milawu ya le henhla ya tiko. Milawu leyi yi le henhla ku tlula na puresidente, yi le henhla 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 vuyeleli swihoxo swa nkarhi lowu nga hundza.

Vumbiwa ra hina ri hi pfuna ku anaka nya no aka vumundzu ku 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 tirheke ku aka no hluvukisa tiko ra hina; naswona

Hi tshemba 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 tanihi nawu lowu kulukumba wa Riphabliki ku endlela—

Ku lulamisa ku hambanisiwa ka nkarhi lowu hundzeke no vumba rixaka leri simekiweke ehenhla 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 ehenhla ka ku navela ka vanhu naswona vaaka-tiko hinkwavo va sirheleriwile hi ku ringana hi nawu;

Ku antswa xiyimo 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 tanihi tiko leri tiyimeleke endyangwini wa tinxaka.

Lava timfanelo ta wena tanihi Muafrika-Dzonga u tlhela u va na vutihlamule ri byo sirhelela timfanelo ta vanhu van'wana.

Tiva Nawumbisi wa timfanelo ta wena & Nawumbisi wa Vutihlamule ri.

Xikwembu a xi sirhelele vanhu va hina.

Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.

God seën Suid-Afrika. God bless South Africa.

Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.

ISBN 978-1-4315-0157-1



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**MATHEMATICS IN XITSONGA
GRADE 3 – BOOK 2
TERMS 3 & 4**

ISBN 978-1-4315-0157-1

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15th Edition

1

2

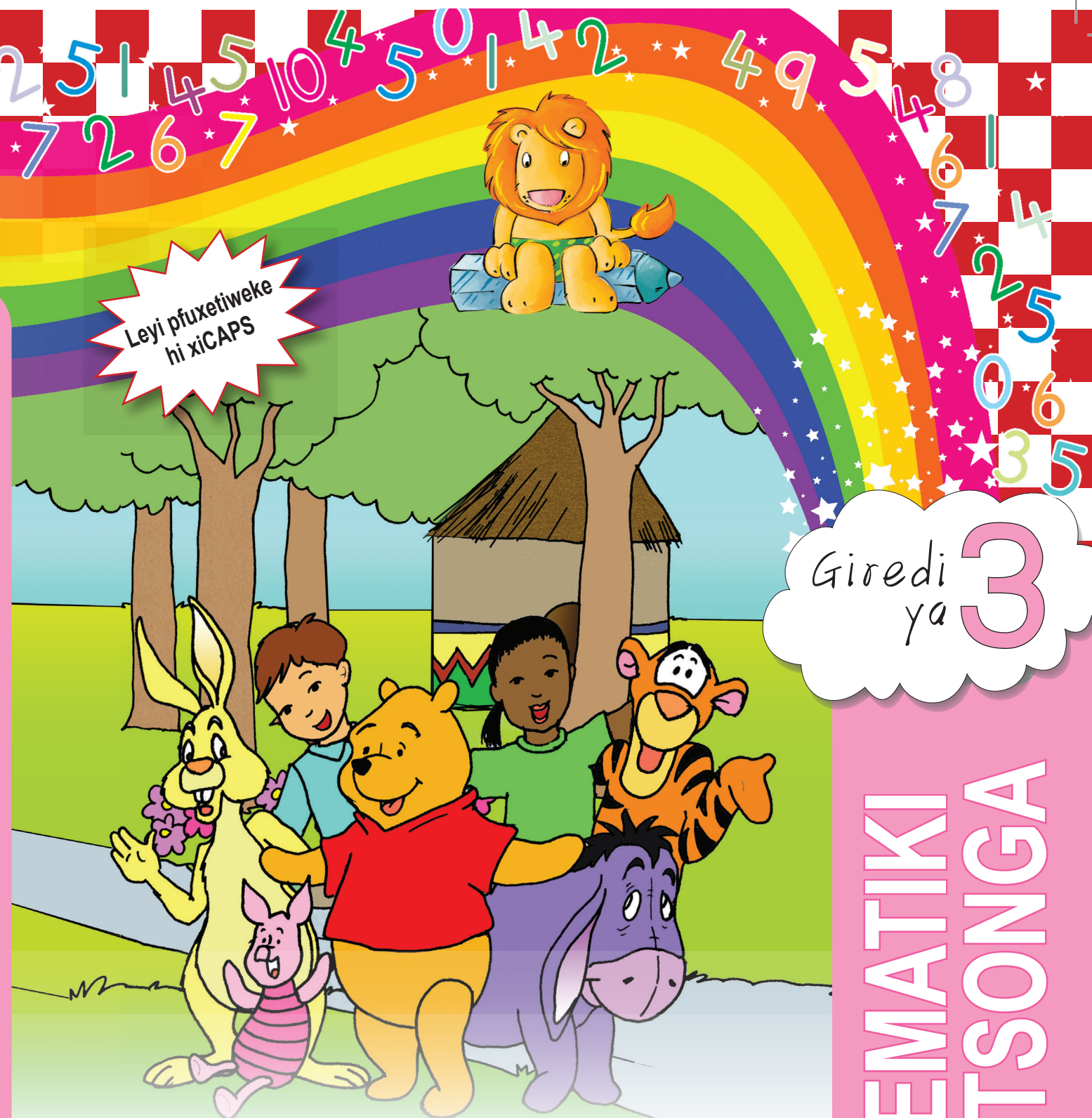
3

4

MATEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 2

ISBN 978-1-4315-0157-1

Leyi pfuxetiweke
hi xiCAPS



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Tlilasi:



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**MATEMATIKI
HI XITSONGA**

Buku ya 2
Tikotara ta
3 na 4

Leswi nga endzeni



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66	Tinomboro tin'wana ta 500 ku fika eka 600	4
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Nwa Siviwe Gwarube
Holobye wa
Dyondzo ya Masungulo



Dkd. Reginah Mhaule
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. Nwa Siviwe Gwarube, na Xandla xa Holobye wa Dyondzo ya Masungulo, Dkd. Reginah Mhaule.

Tibuku to tirhela ta Rainbow ti vumba xiyenge xin'wana xa ntlawa wa migingiriko ya Ndzawulo ya Dyondzo ya Masungulo leyi kongomisiweke eka ku antswisa matirhelo ya vadyondzi va Afrika-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 Ndzawulo 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 heta kharikhulamu. Hi tiyisise leswaku hi letela mudyondzisi eka nghingiriko wun'wana na wun'wana hi ku katsa mifungho leyi kombisaka leswi mudyondzi a faneleke ku endla swona.

Hi ni ntshembo wa leswaku vana va ta tiphina no tsakela ku tirha 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 h e m a t i k i

Buku leyi i ya:



XITSONGA

Buku ya

2

65

Siku:

Tinomboro ta 500 ku fika eka 600

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.

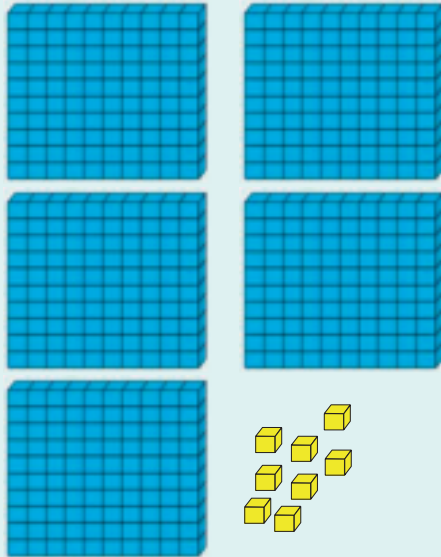
548; _____; _____; _____; _____; _____; _____; _____; _____; _____; 570

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.

540			543				547		549	
							597	598	599	
					597	598	599			



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:

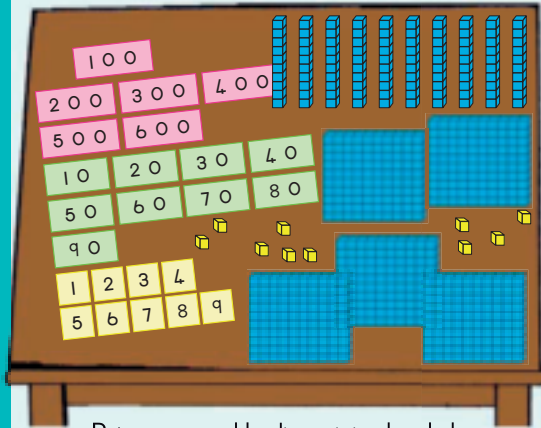
11 12 13 14 15 16 17 18 19 20

66

Tinomboro tin'wana ta 500 ku fika eka 600

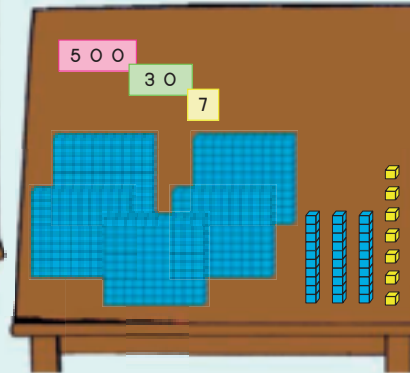
Siku:

Kotara ya 3

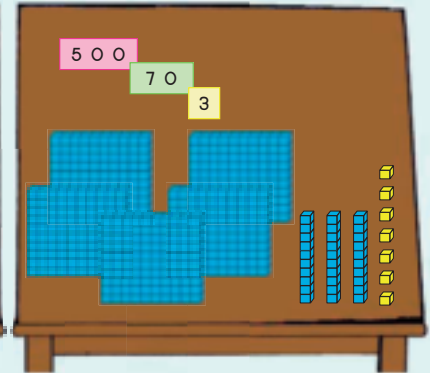


Peter u na makhadi ya xijimela-nkoka
lama landzelaka na tibuloko ta beyisi
ya khume.

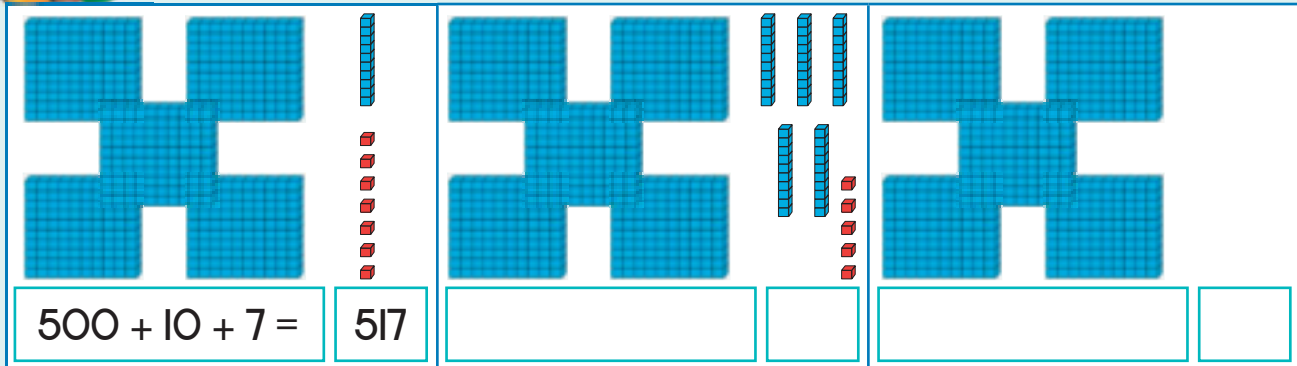
Mudyondzisi u kombela Peter
ku kombisa 537 hi makhadi
ya yena na tibuloko.



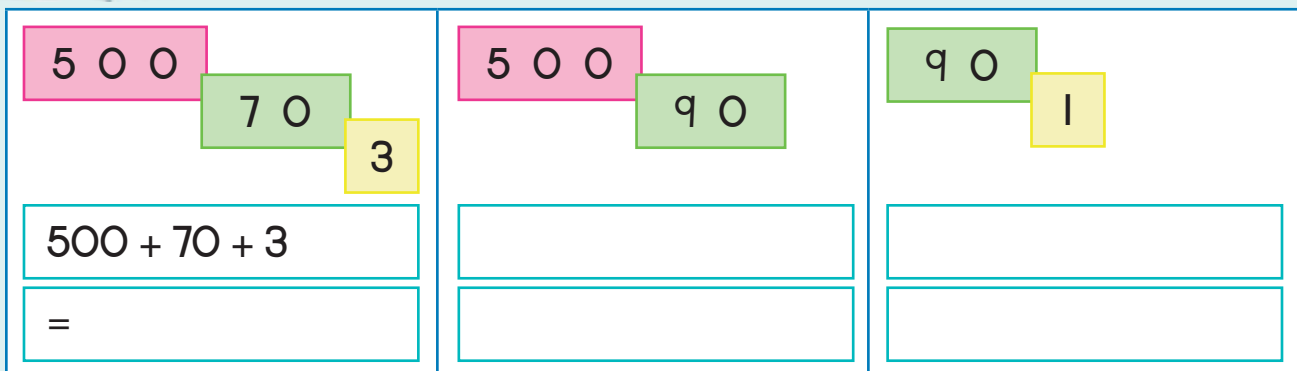
Leswi hi swona leswi Aakar
a swi kombiseke. Hi xihhi xihoxo
lexi a xi endleke?



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





Hetisa ndzhati wa mintsengo.



Tsala tinomboro hinkwato letitsongo eka 556. _____

Tsala tinomboro hinkwato letikulu eka 556. _____



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.

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	



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

67

Siku:

Tinomboro ta 600 ku fika eka 700

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.

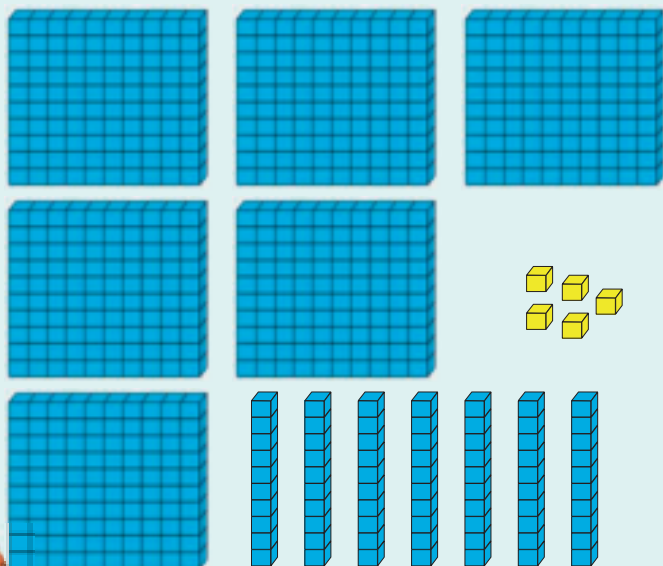
611; _____; _____; _____; _____; _____; _____; _____; _____; 633

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

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



Xana u hlalele tibuloko tingani?



Xana u hlalele tibuloko hi ndlela yihl?



Hetisa mindzhati ya mintsengo.

640			643				647		649	
							687	688	689	
					602	604	606			



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	
-----	--

Teacher:

Sign:

Date:

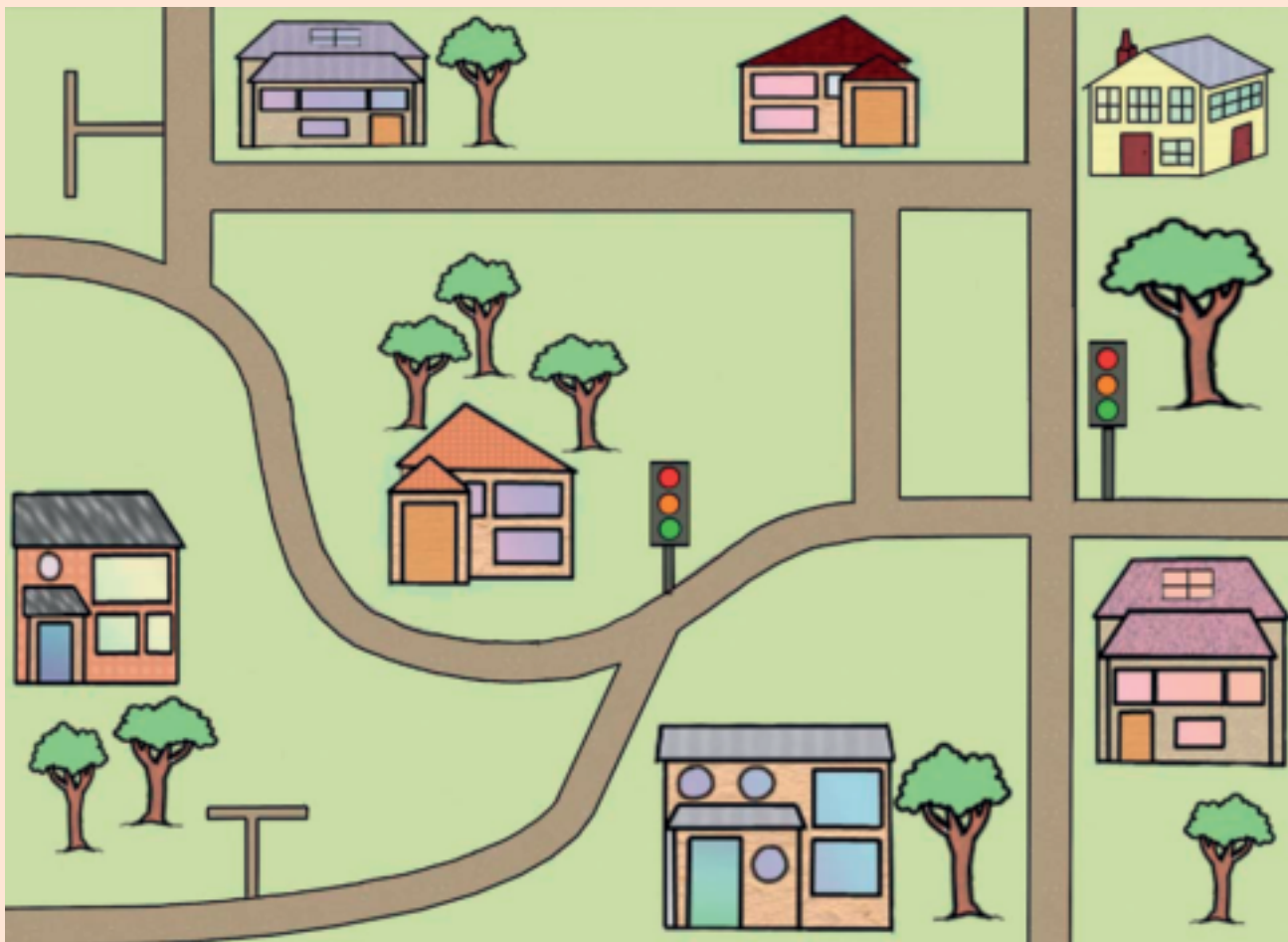
11 12 13 14 15 16 17 18 19 20



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.



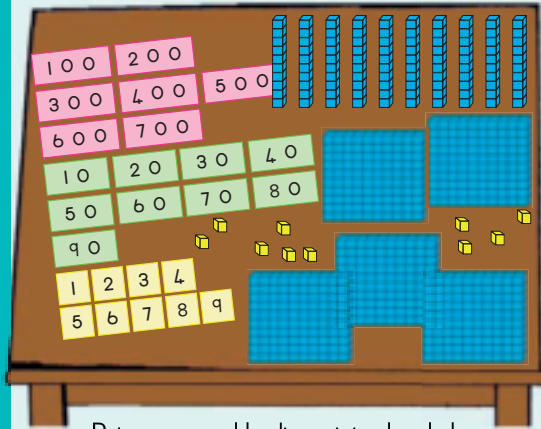
11 12 13 14 15 16 17 18 19 20

69

Siku:

Tinomboro tin'wana ta 600 ku fika eka 700

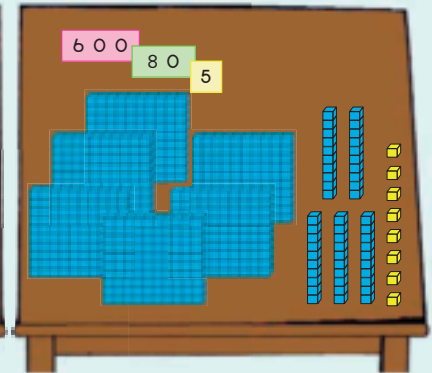
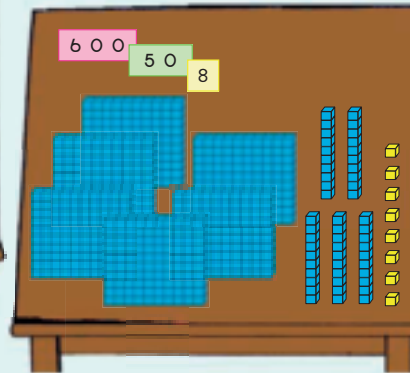
Kotara ya 3



Peter u na makhadi ya xijimela-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.

$600 + 30 + 7 = 637$		

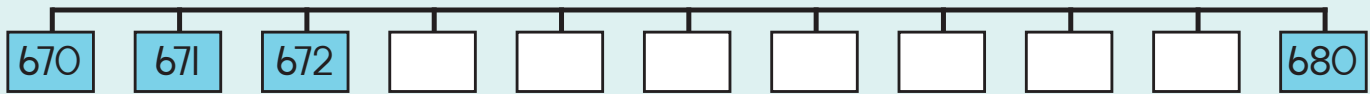


Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.

$600 + 90 + 8$		



Hetisa ndzhati wa mintsengo.



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	

Xikombiso: 632

6	0	0
	3	0
		2
6	3	2

632 = 600 + 30 + 2



Tsala mavito ya tinomboro.

672	
693	
607	
697	
660	



Teacher: _____
Sign: _____
Date: _____

70

Siku:

Tinomboro ta 650 ku fika eka 750

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 henhla.

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.

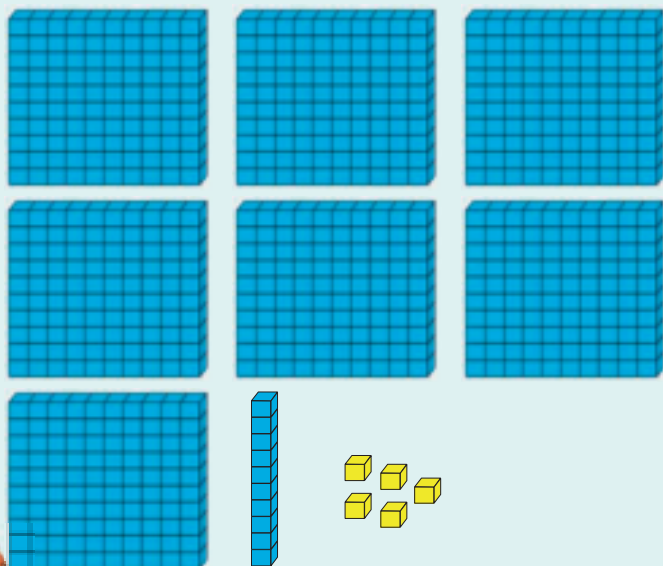
719; _____; _____; _____; _____; _____; _____; _____; _____; 749

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.

700			703				707		709	
							746	747	748	
					706	711	716			



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	
-----	--



Teacher:

Sign:

Date:

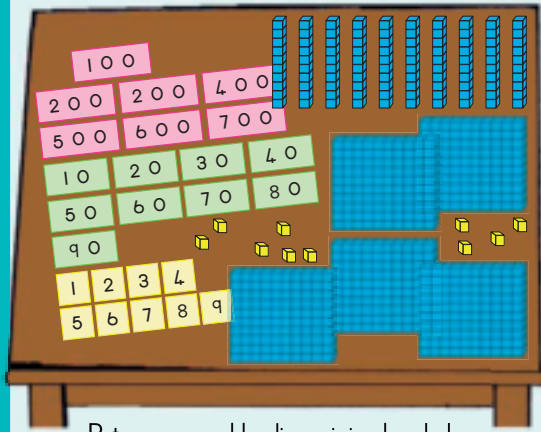
11 12 13 14 15 16 17 18 19 20

71

Siku:

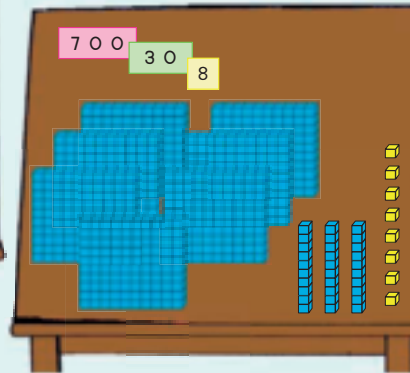
Tinomboro ta 700 ku fika eka 750

Kotara ya 3

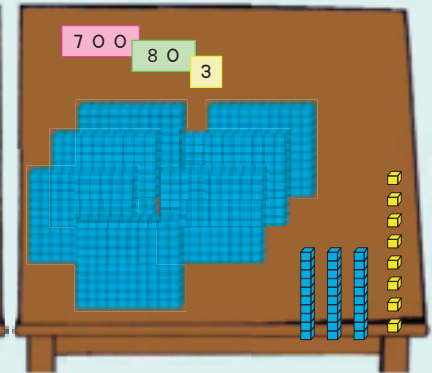


Peter u na makhadi ya xiyimela-nkoka lama landzelaka na tibuloko ta beyisi ya khume.

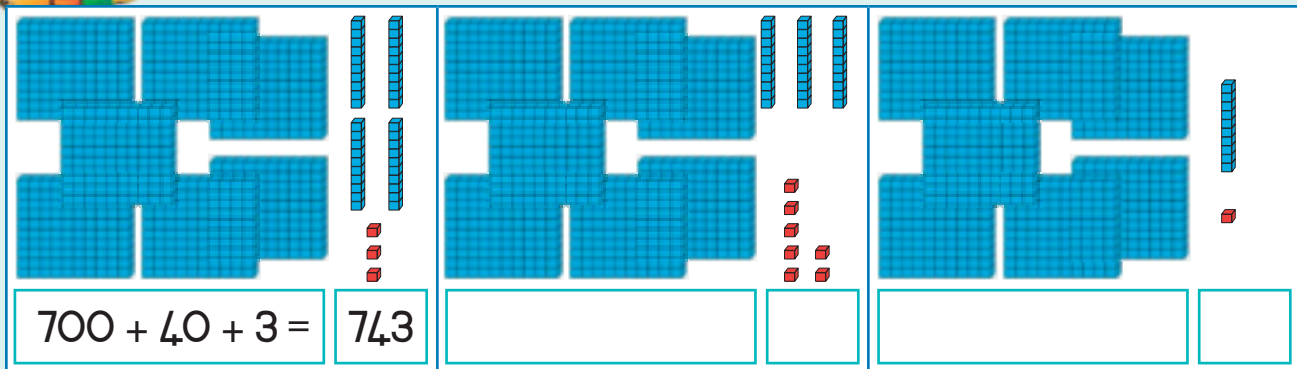
Mudyondzisi u kombela Peter ku kombisa 738 hi makhadi ya yena na tibuloko.



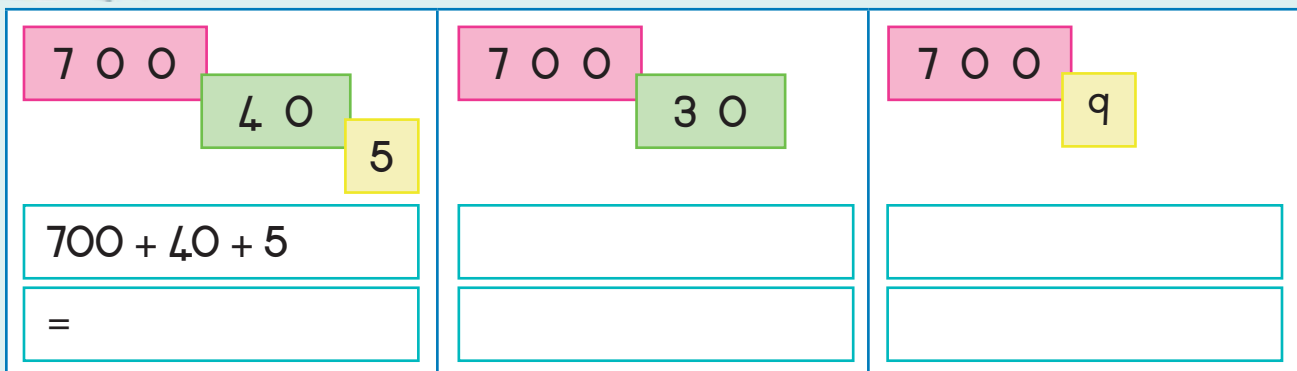
Leswi hi swona leswi Jabu a swi kombiseke. Hi xihi xihoxo lexi a xi endleke?



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.





Hetisa ndzhati wa mintsengo.

699	700	701								709
-----	-----	-----	--	--	--	--	--	--	--	-----

Ndzi nyike tinomboro hinkwato letitsongo eka 704. _____

Ndzi nyike tinomboro hinkwato letikulu eka 704. _____



Tata $<$, $>$ kumbe =

a. 750 _____ 749 b. 732 _____ 723

c. $700 + 40 + 9$ _____ 749



Tlhantlha nomboro ya wena.

a. Aka nomboro yin'wana na yin'wana hi makhadi ya wena.

b. Tsala nkoka wa dijiti yin'wana na yin'wana. Sweswi endla leswi: Tlhantlha nomboro ya wena.

750	
728	
703	
730	
749	

Xikombiso: 747

7 0 0

4 0

7

7 4 7

747

$700 + 40 + 7$



Tsala mavito ya tinomboro.

714	
750	
742	
738	
704	



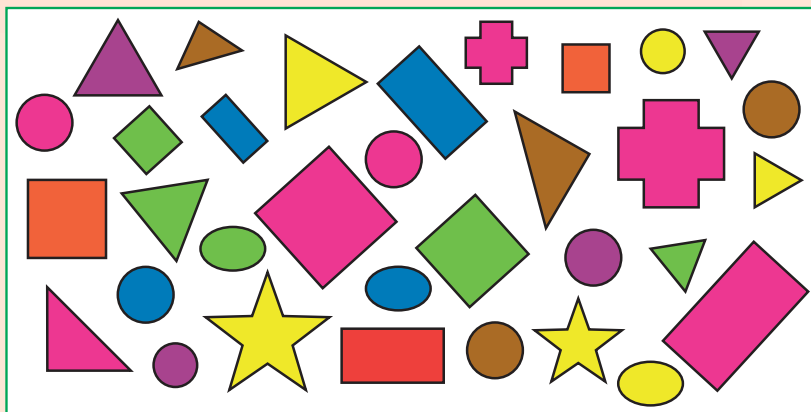
Teacher: _____
Sign: _____
Date: _____



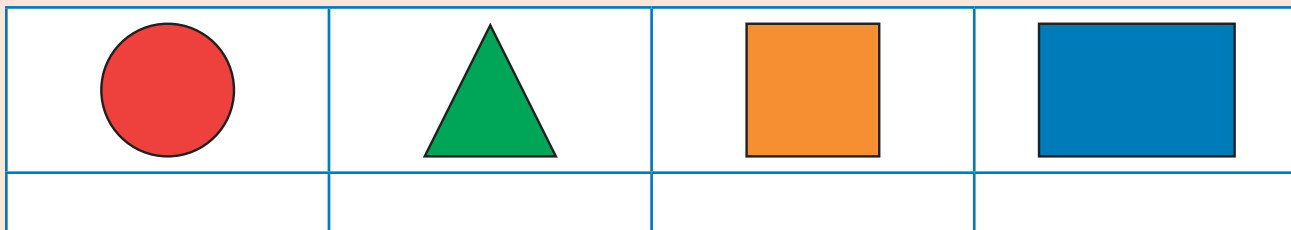
Swivumbeko swa 2 wa matlhelo

Kotara ya 3

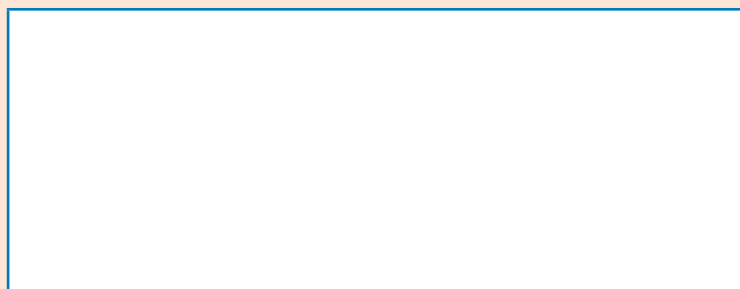
Vula loko xivumbeko xi ri na tlhelo ro thwixi kumbe ra xirhendzevutana.



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.



Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

Ku hlanganisa no susa eka 800



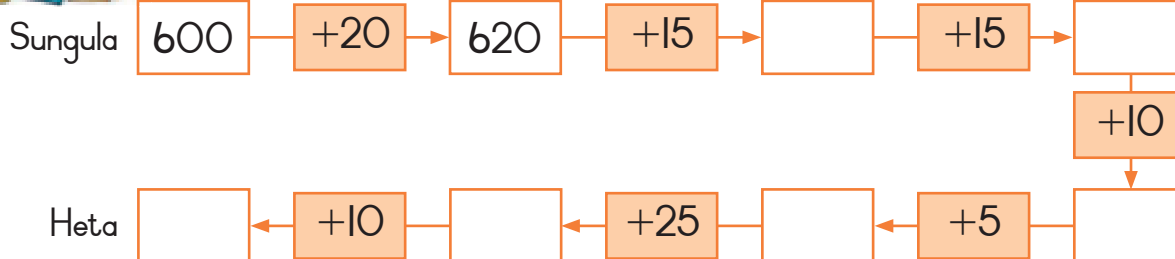
Xana ndzi nga xava yini hi R500?

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



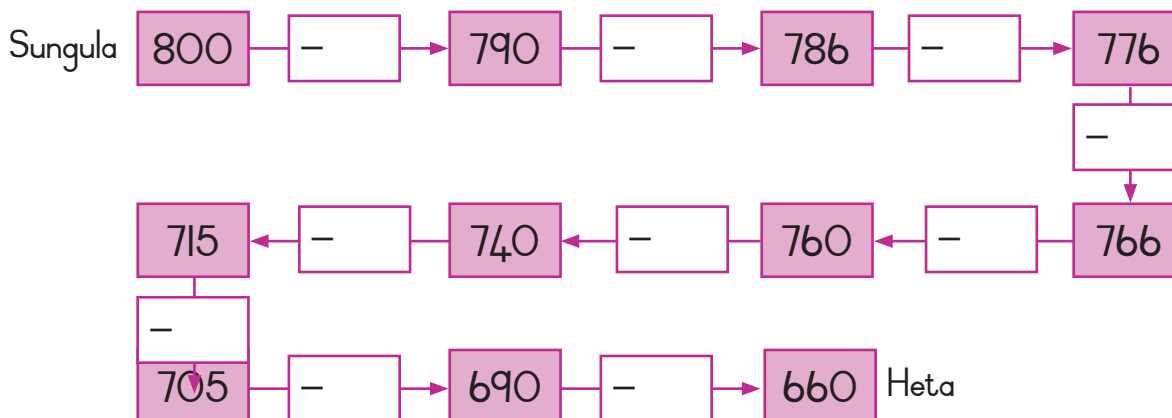
Hlanganisa ku suka eka 600.

Tsala tinomboro leti siyiweke.



Hlayela hi xindzhaku ku suka eka 800.

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





Ololoxa leswi landzelaka:

$$725 + 53 =$$

$$664 + 87 =$$

$$564 + 132 =$$

$$75 + 717 =$$



Ololoxa leswi landzelaka:

James u hlengelletile 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.

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

a.

b.



11 12 13 14 15 16 17 18 19 20

74

Siku:

Ku hlanganisa na ku susa kun'wana eka 800

Kotara ya 3

Mindyangu ya tinomboro

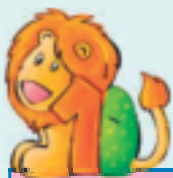
Hi nga kota ku endla mindyangu ya tinomboro. Ndyangu wun'wana na wun'wana wu na tinomboro timbirhi letikulu na yin'we leyitsongo. Teka 4, 8 na 12 tanihi xikombiso.

$$4 + 8 = 12$$

$$8 + 4 = 12$$

$$12 - 8 = 4$$

$$12 - 4 = 8$$



Lava mindyangu.

Tsala 4 wa swivulwa swa tinomboro eka ntlawa 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.

$360 - 50 = \square$	$50 + \square = 360$	$\square + 50 = 360$
$570 - 480 = \square$	$480 + \square = 570$	$\square + 480 = 570$
$430 - 31 = \square$	$31 + \square = 430$	$\square + 31 = 430$
$676 - 70 = \square$	$70 + \square = 676$	$\square + 70 = 676$
$799 - 701 = \square$	$701 + \square = 799$	$\square + 701 = 799$



Ku chayela mpf'huka 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 mpf'huka wo tanihi kwihi?

Kumi u endla leswi: $352 - 166$ $+4 \quad +30 \quad +100 \quad +52$ $166 \quad 170 \quad 200 \quad 300 \quad 352$ $30 + 4 + 100 + 52$ $= 134 + 52 = 186 \text{ km}$	Pumla u tsala leswi: $352 - 166$ $= 300 + 50 + 2$ $- 100 + 60 + 6$ $= 300 + 40 + 12$ $- 100 + 60 + 6$ $= 200 + 140 + 12$ $- 100 + 60 + 6$ $= 100 + 80 + 6$ $= 186 \text{ km}$
Mbali u endla leswi: $352 - 166$ $166 + 100 \rightarrow 266 + 34 \rightarrow 300 + 52 \rightarrow 352$ $100 + 34 + 52 = 134 + 52 = 186 \text{ km}$	Peter u endla leswi: $352 - 166$ $= 352 - 100 - 66$ $= 252 - 66$ $= 252 - 52 - 14$ $= 200 - 14$ $= 186 \text{ km}$
Veronica u endla leswi: $352 - 166$ $352 - 152 = 200$ $200 - 14 = 200 - 10 - 4$ $= 190 - 4$ $= 186 \text{ km}$	Lebo u ehleketa hi ku andzisa kambirhi na tihafu. Hafu ya 352 i 176 Kambe ndzi fanele ku teka ntsena 166, Kutani ndzi engetela 10. $176 + 10 = 186 \text{ km}$

Vulavula hi tindlela to hambana ta matirhele. Hi yihi leyi u yi tsakelaka swinene? Hikwalaho ka yini?

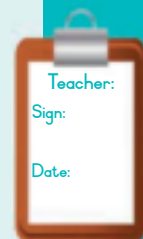


Ololoxa leswi landzelaka eka xiphephana xin'wana:

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

$$746 - 328$$

$$800 - 499$$



75

Siku:

Ku hlanganisa no susa ku fika eka 800 nakambe

Kotara ya 3



Aka mindyangu ya wena ya tinomboro.

Nghingiriko wo tilulamisa.

5 12 17



$$5 + 12 = 17$$

$$12 + 5 = 17$$

$$17 - 12 = 5$$

$$17 - 5 = 12$$

Xikombiso: Endla 17

$$8 + 9 = 17$$

$$9 + 8 = 17$$

$$17 - 9 = 8$$

$$17 - 8 = 9$$



8 9 17

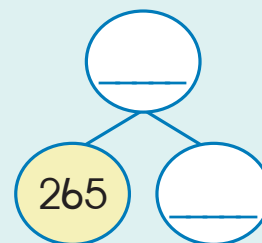
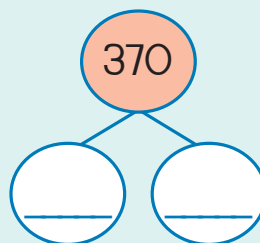
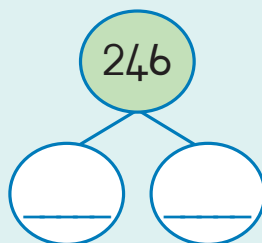
Eka nomboro yin'wana na yin'wana laha hansi, hlawula tin'wana ti2 ku endla ndyangu. Tsala swivulwa swa tinomboro swa mune (swimbirhi swa + na swimbirhi swa -) eka ndyangu wun'wana na wun'wana wa tinomboro.

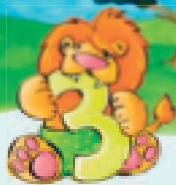
Kambisisa!
Ringanisa!
Lulamisa!

			+	+	-	-
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 tihafu ta wena na ku andzisa kambirhi, u nga swi tirhisa eka ku hlanganisa kumbe ku susa.

Swikombiso:

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

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

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

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

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
$256 = 200 + 50 + 6$ → Hafu ya 200 i 100 → Hafu ya 50 i 25 → Hafu ya 6 i 3 $100 + 25 + 3 = 128$ → Hafu ya 256 i 128 Kutani 128 va amukela swimovhana.	→ Hafu ya 250 = 125 → Hafu ya 6 i 3 $125 + 3 = 128$ → Hafu ya 256 i 128, Kutani 128 va amukela swimovhana.



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?



Tipatironi ta tinomboro: vukhume ku fika eka 800

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 leyi nyikiweke.
Hi ku endlele yo sungula.

a. $767 + 10 = 777$

b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____



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

a. $767 - 10 = 757$

b. 762

c. 783

d. 756

e. 714

f. 799

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



Languta swirhendzevutana swo tshwuka eka bodo ya tinomboro.

a. Xana u lemuka yini hi swirhendzevutana leswi?

b. Kurisa ku landzelelana ka tinomboro leti landzelaka:

704; 714; 724; ; ;

715; 725; 735; ; ;

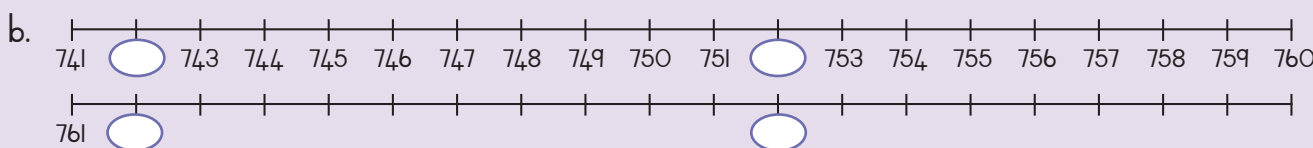
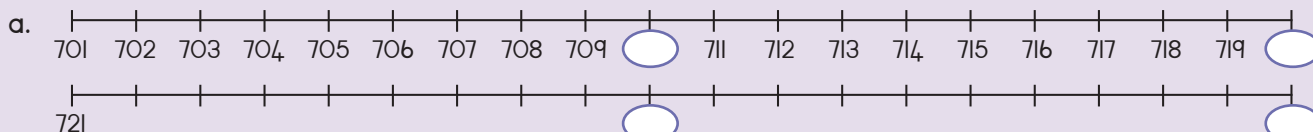
799; 789; 779; ; ;

782; 772; 762; ; ;

737; 747; 757; ; ;



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



Ndzi na nomboro ya 3 wa tidijiti.

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

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



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

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.

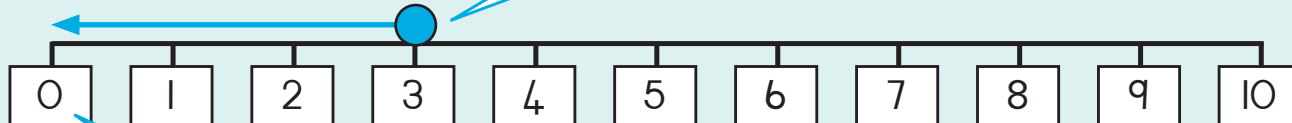


A hi vulavuleni.

Languta 3 eka ndzhati wa mintsengo.



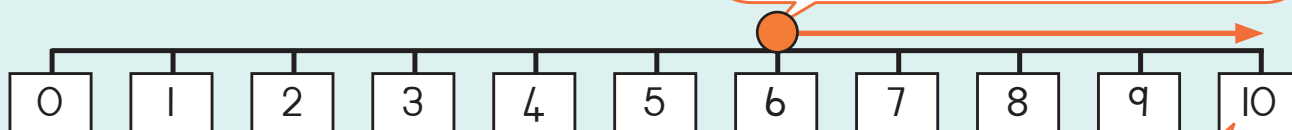
Xana 3 yi ta va yini loko yi yisiwa eka 10 ya le kusuhi??



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.

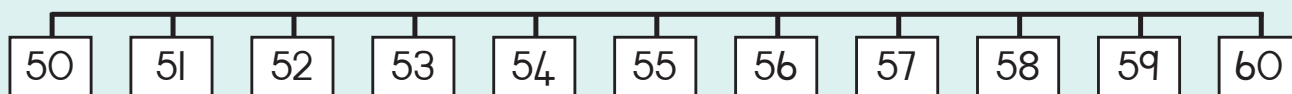
12 loko yi yisiwa eka khume ra le kusuhi yi ta va yini? _____

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? _____





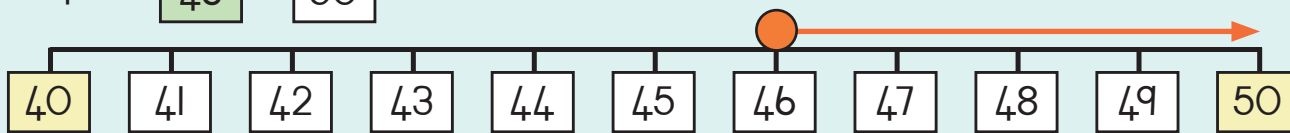
Yisa eka IO ya le kusuhi, u tirhisa mindzhati ya mintsengo ku ku pfuna.

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 R4,800.

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

Xana u ta xava maphakete ya makhadi mangani hi R4,800? _____



Teacher: _____

Sign: _____

Date: _____

11 12 13 14 15 16 17 18 19 20

Ku andzisa: vuntlhanu ku fika eka 75

Kotara ya 3

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:

$$9 \times 5 = 45$$

$$7 \times 5 = 35$$

$$2 \times 5 = 10$$

$$4 \times 5 = 20$$

$$3 \times 5 = 15$$

$$5 \times 5 = 25$$

$$10 \times 5 = 50$$

$$6 \times 5 = 30$$

$$8 \times 5 = 40$$



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 nkholuko.

Lexi nghenisiwaka

11
12
13
14
15

nawu

$\times 5$

Lexi kumekaka

Lexi nghenisiwaka

16
17
18
19
20

nawu

$\times 5$

Lexi kumekaka

Lexi nghenisiwaka

5
10
15
25
30

nawu

$\div 5$

Lexi kumekaka

Lexi nghenisiwaka

55
60
65
70
75

nawu

$\times 5$

Lexi kumekaka



Hetisa matafula lama nga laha hansi:

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

$\times$	11	12	13	14	15	16	17	18	19	20
5										

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



Olooxa leswi landzelaka:

Manana u xavile maphekete ya swiwitsi leswi durhaka R70. U hakelele phakete hi R5.
Xana u xavile maphakete mangani ya swiwitsi?



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Tipatironi ta tinomboro: vuntlhanu ku fika eka 800

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 ndzandzelelano wa tinomboro.

725; 730; 735; _____; _____; _____

800; 795; 790; _____; _____; _____



Hlanganisa kumbe u susa ntlhanu.

a. $760 + 5 = 765$

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

b. 725 _____

c. 780 _____

d. 755 _____

e. 715 _____

f. 790 _____



2. Susa ntlhanu 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 ntlhanu 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; _____; _____; _____

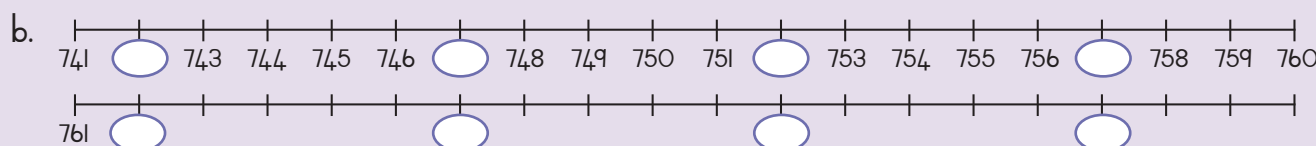
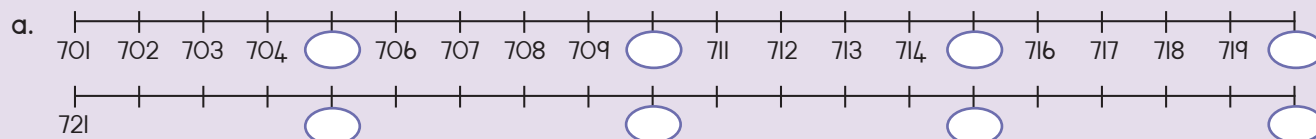
753; 758; 763; _____; _____; _____

714; 719; 724; _____; _____; _____

701; 706; 711; _____; _____; _____



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



Ndzi na nomboro ya 3 wa tidijiti.

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

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



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

80

Siku:

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
Nyenyankulu 23	6:53 nimixo	6:53 nimadyambu		
Khotavuxika 21	7:51 nimixo	5:44 nimadyambu		
Ndzati 19	6:41 nimixo	6:41 nimadyambu		
N'wendzambahala 22	5:32 nimixo	7:58 nimadyambu		

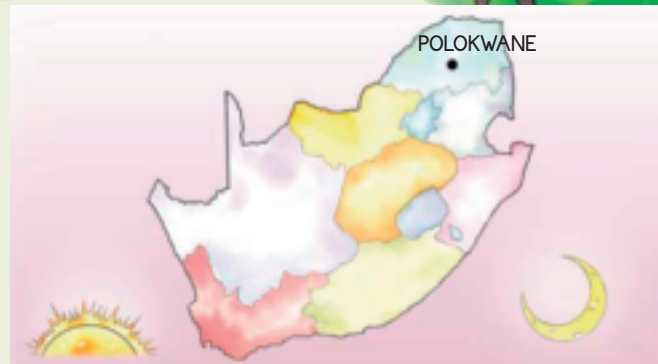
- I tin'hwetl tihi leti nhlekanhi na vusiku swi ringanaka hi ku leha? _____
- Hi yihi n'hwetl leyi nga na masiku yo leha swinene? _____
- Hi yihi n'hwetl leyi nga na masiku yo koma swinene? _____
- Kuma ku hambana ka tiawara na timinete exikarhi ka siku ro leha swinene na siku ro koma swinene.
- Kuma ku leha ka nhlekanhi na vusiku ka siku rin'wana na rin'wana eka tafula leri nga laha henhla.



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 hlamula swivutiso leswi nga laha hansi.



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

- I tin'hweti tihi leti nhlekanhi na vusiku swi ringanaka hi ku leha? _____
- Hi le ka tin'hweti tihi laha ku leha ka nhlekanhi ku ringanaka eCape Town na le Polokwane? _____
- Hi le ka tin'hweti tihi 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?



Teacher:

Sign:

Date:

Ku andzisa: vumbirhi ku fika eka 75

Kotara ya 3

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



Xana ku na tintanghu tingani?

I phere ya tintanghu? _____

2 wa tiphere ta tintanghu?

3 wa tiphere ta tintanghu?

4 wa tiphere ta tintanghu?

5 wa tiphere ta tintanghu?

6 wa tiphere ta tintanghu?

7 wa tiphere ta tintanghu?

8 wa tiphere ta tintanghu?

9 wa tiphere ta tintanghu?

10 wa tiphere ta tintanghu?

Yelanisa nhlayo na xivutiso lexi nga eximatsini:

$$1 \times 2 = 2$$

$$9 \times 2 = 18$$

$$7 \times 2 = 14$$

$$2 \times 2 = 4$$

$$4 \times 2 = 8$$

$$3 \times 2 = 6$$

$$5 \times 2 = 10$$

$$10 \times 2 = 20$$

$$6 \times 2 = 12$$

$$8 \times 2 = 16$$



Hetisa tafula.

Ku ntlawhata	Andzisa	Ku avela	Avanyisa
10 wa mintlawwa ya 2	$10 \times 2 = 20$	Ava 20 exikarhi ka 2	$20 \div 2 = 10$
15 wa mintlawwa ya 2		Ava 30 exikarhi ka 2	
20 wa mintlawwa ya 2		Ava 40 exikarhi ka 2	
35 wa mintlawwa ya 2		Ava 70 exikarhi ka 2	



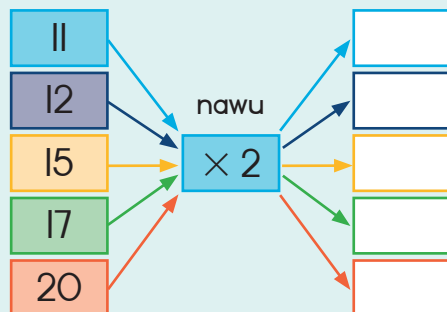
Hetisa tafula.

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	



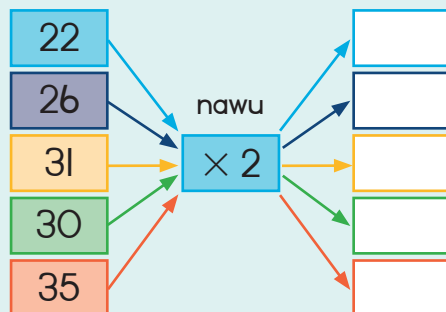
Hetisa tidayigiramu ta nkholuko.

Leswi ngenisiwaka



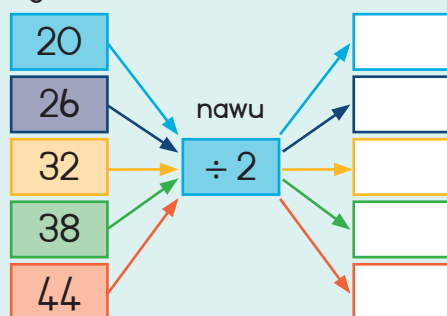
Leswi kumekaka

Leswi ngenisiwaka



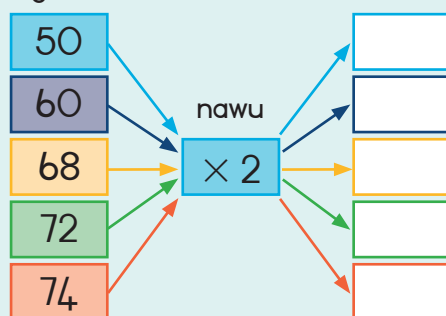
Leswi kumekaka

Leswi ngenisiwaka



Leswi kumekaka

Leswi ngenisiwaka



Leswi kumekaka



Hetisa matafula lama nga laha hansi:

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

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



Ololoxa leswi landzelaka:

Ndazi xavile 36 wa tilolipopo hi R2.
Ndazi hakerile hi R50, R20 na khoyini ya R5.
Cinci ya mina a yi ri yini?



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Tipatironi ta tinomboro: vumbirhi ku fika eka 800

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

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 landzelelana ka tinomboro leti:

701; 703; 705; _____; _____; _____

783; 785; 787; _____; _____; _____

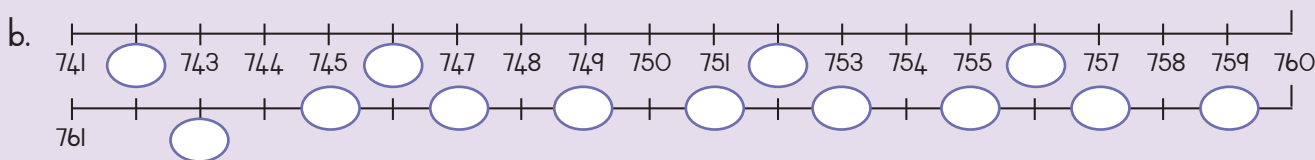
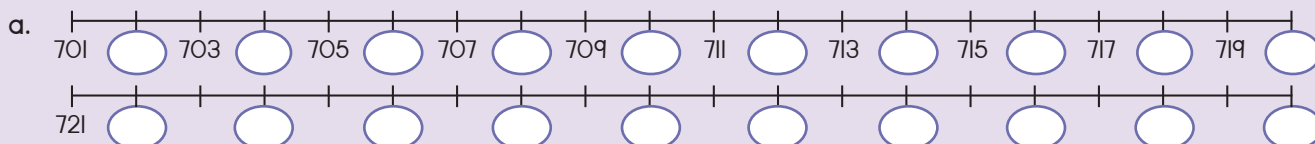
725; 727; 729; _____; _____; _____

779; 781; 783; _____; _____; _____

799; 797; 795; _____; _____; _____



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



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?



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Ku andzisa:
vu-2 na vu-5 ku fika eka 75

Kotara ya 3



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

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



Languta leswi munghana wa mina a swi endleke.

Bulani hi swona.

$$4 \times 2 = 8$$

Munghana u kombisile 4×2 hi ndlela leyi:

Ku hlayela hi ku tlulatlula	Mintlawa leyi 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 leyi 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 hlenganile hinkwayo?



11 12 13 14 15 16 17 18 19 20

Ku andzisa: vunharhu ku fika eka 75

Kotara ya 3

I yini swi fambaka
hi vunharhu?
Mavhilwa ya thirayisekele.



Hetisa tafula.

Ku ntlawhata	Andzisa	Ku avela	Avanyisa
11 wa mintlawwa ya 3	$11 \times 3 = 33$	Ava 33 exikarhi ka 3	$33 \div 3 = 11$
15 wa mintlawwa ya 3		Ava 45 exikarhi ka 3	
25 wa mintlawwa ya 3		Ava 60 exikarhi ka 3	
1 wa mintlawwa 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	



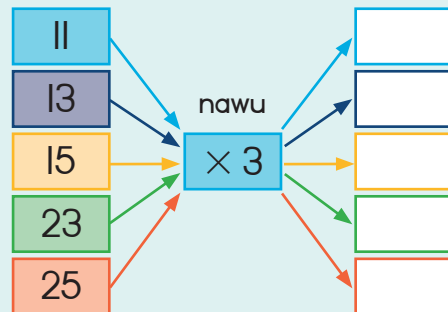
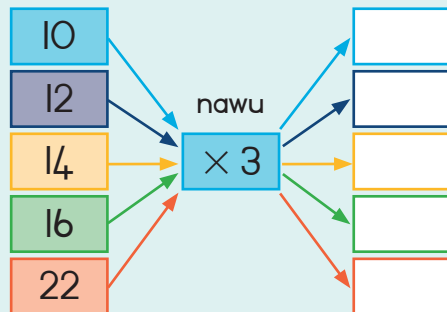
Hetisa tidayigiramu ta nkholuko.

Leswi ngenisiwaka

Leswi kumekaka

Leswi ngenisiwaka

Leswi kumekaka

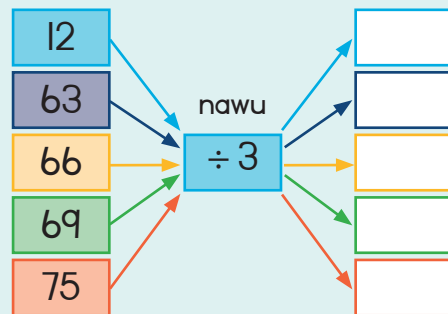
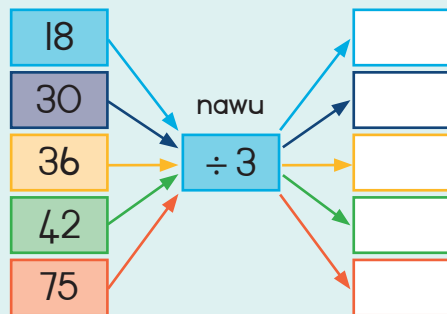


Leswi ngenisiwaka

Leswi kumekaka

Leswi ngenisiwaka

Leswi kumekaka



Hetisa matafula lama nga laha hansi:

×	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4	3	6													

×	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 khalaraweke hi muhlovo wa wasi?



Oloxa leswi landzelaka:

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

Xana va hakerile mali muni hinkwayo ka yona?



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Ku andzisa: vu-2,
vu-3 na vu-4 ku fika eka 75

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 leyi 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 leyi ringanaka	Ku hlanganisa loku vuyeleriweke	Malongoloxelo	Leswi tivekaka

$$6 \times 4 = 24$$

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



Avanyisa u tlhela u kambela nhlamulo ya wena.

$$63 \div 3$$

$$= 21$$

$\times = 20 + 1$

$$21 \times 3$$

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

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

$$= 60 + 3$$

$$= 63$$

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?



Teacher: _____

Sign: _____

Date: _____

11 12 13 14 15 16 17 18 19 20

Tipatironi ta tinomboro: vunharhu ku fika eka 800

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 vuntlhanu 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.

1. Engetela nharhu eka nomboro leyi nyikiweke.

Hi ku endlele yo sungula.

a. $766 + 3 = 769$

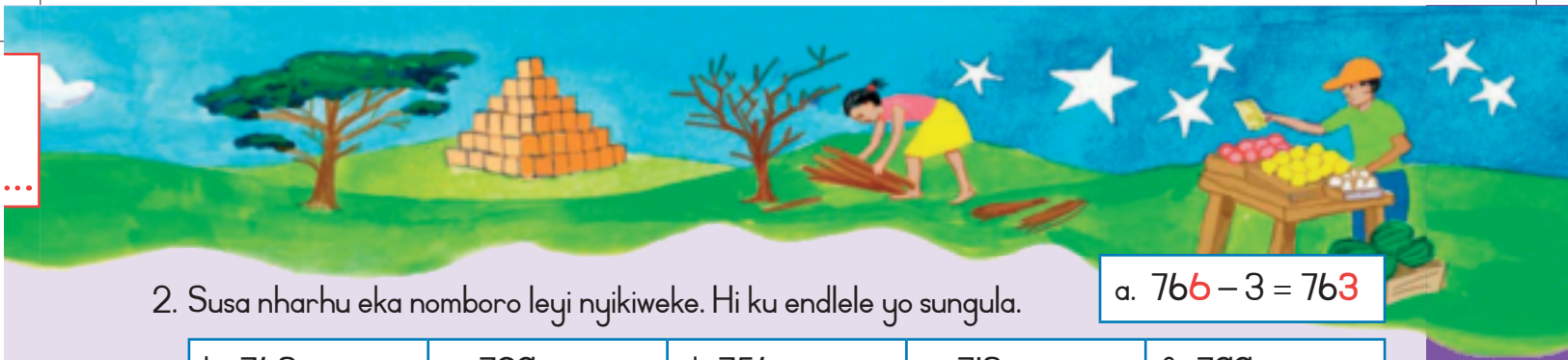
b. 766 _____

c. 783 _____

d. 756 _____

e. 713 _____

f. 790 _____



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

a. $76\textcolor{red}{6} - 3 = 76\textcolor{red}{3}$

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 landzelelana ka tinomboro leti:

704; 707; 710; _____; _____; _____

779; 776; 773; _____; _____; _____

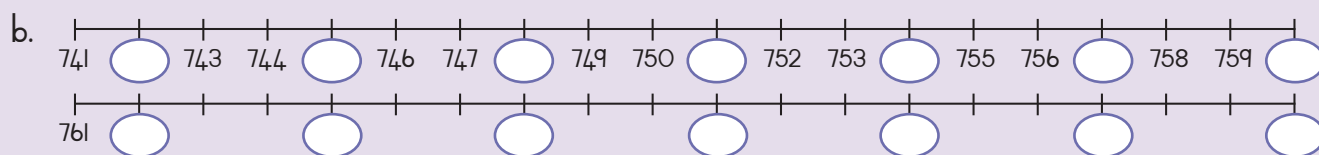
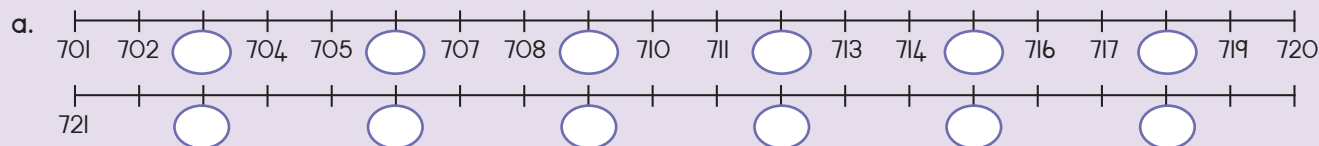
773; 776; 779; _____; _____; _____

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?



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Ku andzisa: vumune ku fika eka 75

Kotara ya 3

I yini xi taka hi vumune?
Mavhilwa ya movha.



Xana ku na mavhilwa
mangani eka

1 movha?

2 wa mimovha?

3 wa mimovha?

4 wa mimovha?

5 wa mimovha?

6 wa mimovha?

7 wa mimovha?

8 wa mimovha?

9 wa mimovha?

10 wa mimovha?

Yelanisa nhlayo na
xivutiso lexi nga eximatsini:

$$9 \times 4 = 36$$

$$7 \times 4 = 28$$

$$2 \times 4 = 8$$

$$4 \times 4 = 16$$

$$3 \times 4 = 12$$

$$5 \times 4 = 20$$

$$1 \times 4 = 4$$

$$10 \times 4 = 40$$

$$6 \times 4 = 24$$

$$8 \times 4 = 32$$



Hetisa tafula.

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



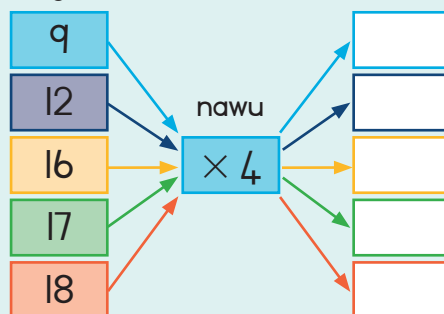
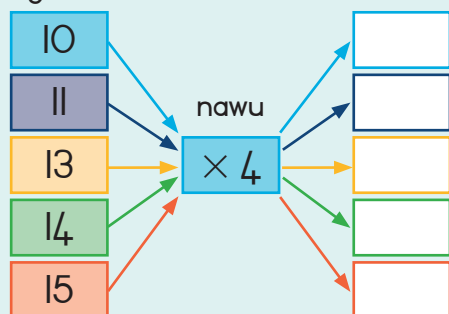
Hetisa tidayigiramu ta nkholuko.

Leswi ngenisiwaka

Leswi kumekaka

Leswi ngenisiwaka

Leswi kumekaka

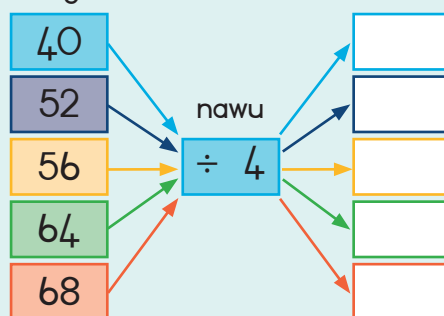
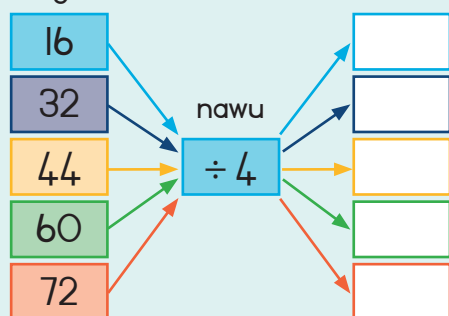


Leswi ngenisiwaka

Leswi kumekaka

Leswi ngenisiwaka

Leswi kumekaka



Hetisa matafula lama nga laha hansi:

×	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4															

×	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 khalaraweke hi muhlovo wa wasi?



Ololoxa leswi landzelaka:

Ndzi na R75.

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



Teacher: _____

Sign: _____

Date: _____

11 12 13 14 15 16 17 18 19 20

Tipatironi ta tinomboro: vumune ku fika eka 800

Kotara ya 3



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

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 leyi 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 leyi nyikiweke. Hi ku endlele yo sungula.

a. $76\cancel{4} - 4 = 760$

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 landzelelana ka tinomboro

711; 715; 719; _____; _____; _____

leti landzelaka:

783; 779; 775; _____; _____; _____

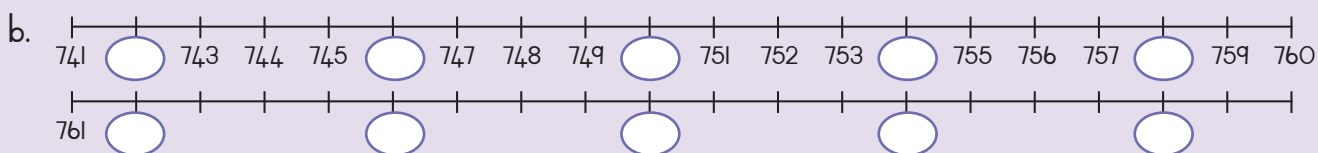
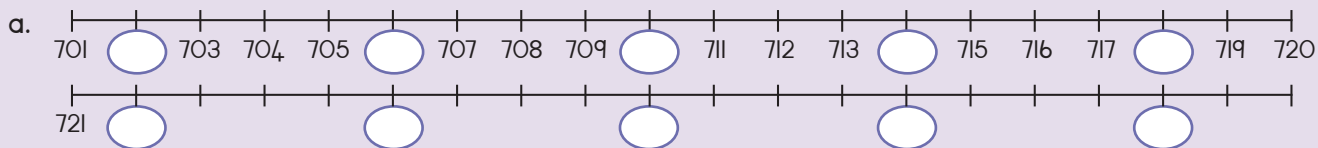
703; 707; 711; _____; _____; _____

799; 795; 791; _____; _____; _____

773; 777; 781; _____; _____; _____



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, dijiti leyi 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 leyi.

Xana u kuma yini?



Teacher: _____
Sign: _____
Date: _____

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Ku andzisa no avanyisa:
vu-2, vu-3, vu-4 na vu-5 ku fika eka 75

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 tidijiti, xik. 72 yi na tidijiti 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.

$$65 \div 3$$

$$\begin{aligned}
 &= (60 + 5) \div 3 \\
 &= (60 \div 3) + (5 \div 3) \\
 &= 20 + 1 \text{ nsalo } i 2 \\
 &= 21 \text{ nsalo } i 2
 \end{aligned}$$

$$21 \times 3 + 2$$

$$\begin{aligned}
 &= (20 + 1) \times 3 + 2 \\
 &= (20 \times 3) + (1 \times 3) + 2 \\
 &= 60 + 3 + 2 \\
 &= 65
 \end{aligned}$$

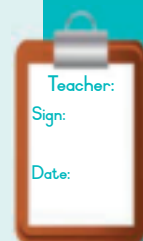
a. $49 \div 5$

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?



11 12 13 14 15 16 17 18 19 20

90

Siku:

Swihlawulekisi

swa swilo swa 3 wa matlhelo

Kotara ya 3



Languta swifaniso.

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

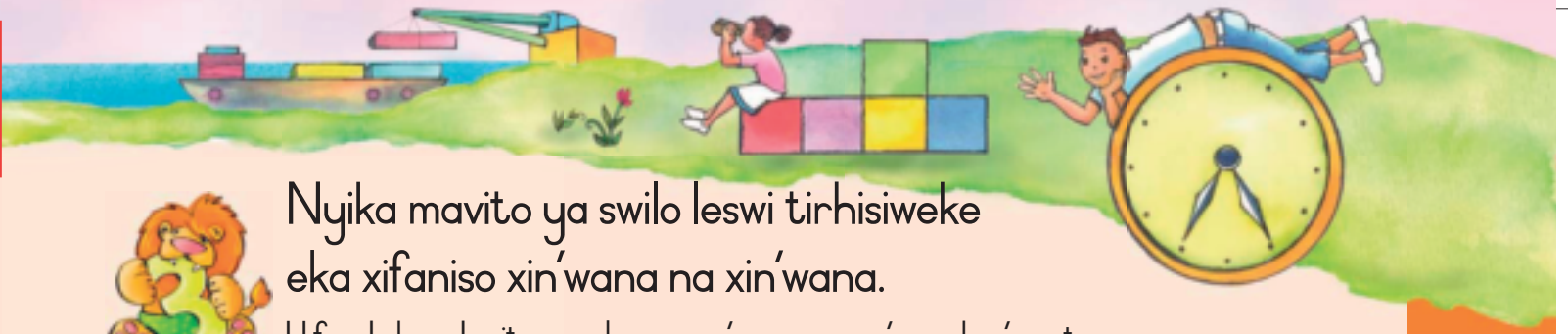


c. Silindara ya

_____.

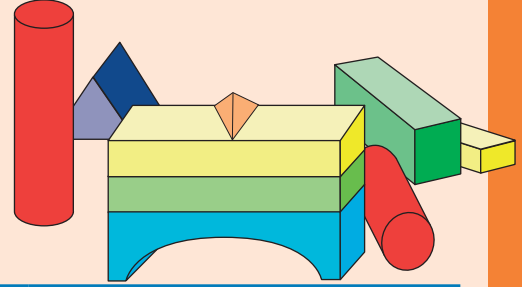
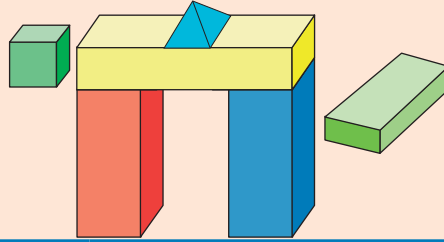
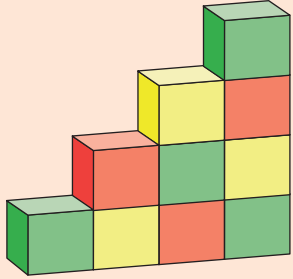


d. Xana silindara yi nga rheta?



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.



Teacher:
Sign:
Date:

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Switirho swa swipandzu swa swiphemu

Switirho: 5 wa swipandzu swa phepha hi mihlovo yo hambana, xikero, tipenisele/tikhirayoni.



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.

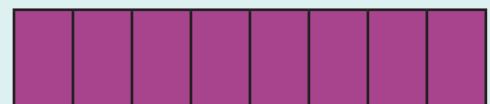
Kutani xi pfule. Xana u na swiphemu leswi ringanaka swingani?

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

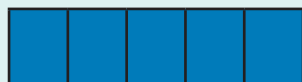
Teka xipandzu xa vunharhu kutani u xi petsa hi hafu, u tlhela u xi petsa hi hafu. Xi pfule. Xana u na swiphemu swingani leswi ringanaka? Tsala $\frac{1}{4}$ eka xa-mune xin'wana na xin'wana kutani u tsema laha ku petsiweke kona. Ringeta ku endla swipandzu swin'wana swimbirhi, xin'we lexi kombisaka swa-ntlhanu



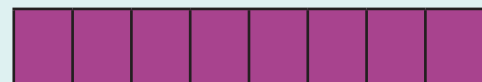
Xiheri xin'we



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.

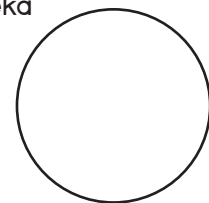
Xiheri xin'we

Avanyisa xipandzu eka swiphemu swa xa-nharhu.

Khalara n'we-xa-nharhu.

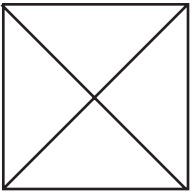
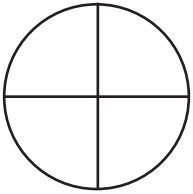
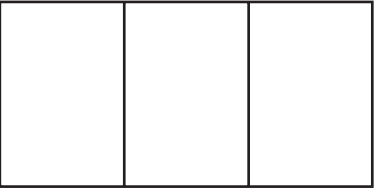
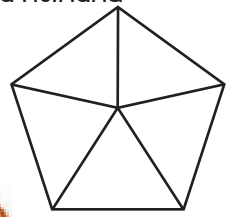
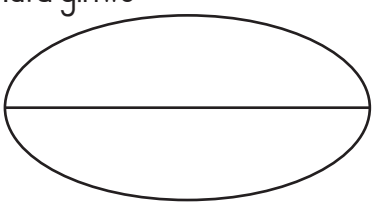
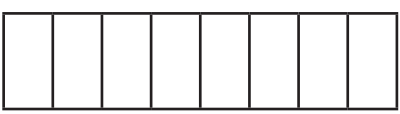
Avanyisa xirhendzevutana eka xa-nharhu.

Khalara n'we-xa-nharhu.





Khalara leswi landzelaka:

Hafu yin'we 	Nharhu-xa mune 	Mbirhi-xa-nharhu 
Mune xa ntlhanu 	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-ntlhanu 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 6 wa swirhendzevutana eka Xitsemiwa xa 6.
- Tsema ntlhanu wa swirhendzevutana eka tilayini swi va swiphemu.
- Lebula xiphemu xin'wana na xin'wana:
 - o Eka tlhelo rin'we tsala xiphemu xa awara ya xiheri.
 - o Eka tlhelo lerin'wana tsala nhlayo ya timinete eka xiphemu xolexo.



Teacher: _____
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Date: _____

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Swiphemu swin'wana

Kotara ya 3



Tsala Ina kumbe E-e.

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



Ava phayi

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



- a. Ndzi twa ndlala!
Ndzi lava hafu!

Sipho



Dirowa xiphemu xa Sipho.

- b. Hi swona! Ndzi ta teka kota.

Gavaza



Dirowa swiphemu swa Sipho na Gavaza.

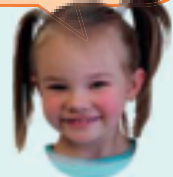
- c. Ndzi ta kuma hafu ya leswi saleke.

Andzani



- d. Ndzi salele hi phayi yo tanihi kwihi?

Lisa



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



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

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



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

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

Hi xihi xivutiso?

Hi tihi tinomboro?

Dirowa xifaniso.

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

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

Hi xihi xivutiso?

Hi tihi tinomboro?

Dirowa xifaniso.



Teacher: _____

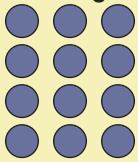
Sign: _____

Date: _____

Ku avela loku letelaka eka swiphemu

Kotara ya 3

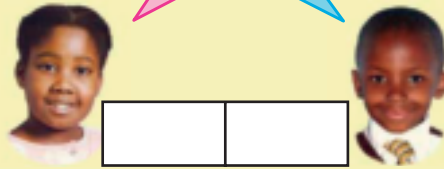
Ku na 12 wa swihlayelo



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

Hi vula leswaku leyi i hafu yin'we.

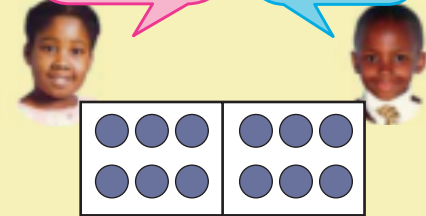
Hi vula leswaku leyi i hafu yin'we.



Hi ava swihlayelo swa khumembirhi exikarhi ka hina vambirhi.

Ndzi kumile swihlayelo swa ntsevu.

Ndzi kumile swihlayelo swa ntsevu.



Endla xifaniso xa leswi landzelaka kutani u hlamula xivutiso.

Tibolo ta kaye ti aviwa exikarhi ka vanghana vanharhu.



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

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

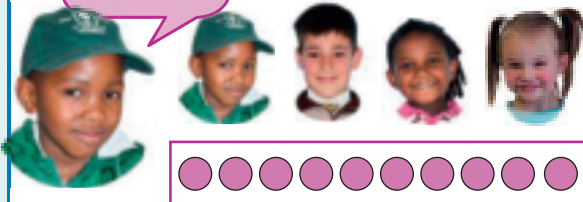


- Nhwanyana un'wana na un'wana u ta amukela tibolo tingani?
- Mufana un'we u ta amukela xiphemu muni?



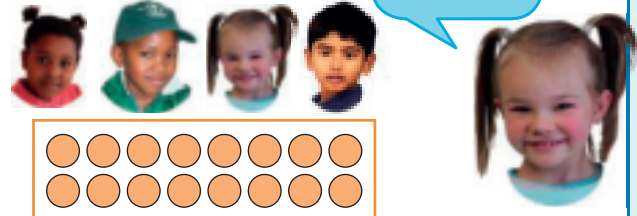
Xana Mandla u ta amukela xiphemu muni?
Xana Lisa u ta amukela xiphemu muni?

Vito ra mina i Mandla.



- Xana Mandla na Lisa va ta amukela tibolo tingani?

Vito ra mina i Lisa.



- Xana Mandla na Lisa va ta amukela tibolo tingani?



Ku avelana swiwitsi.

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

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 l 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:

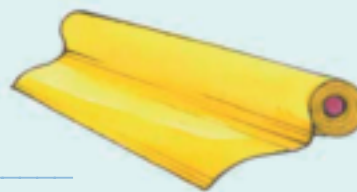
2 wa swikete? _____ 3 wa swikete? _____ 4 wa swikete? _____

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

l xikete? _____ 2 wa swikete? _____ 3 wa swikete? _____

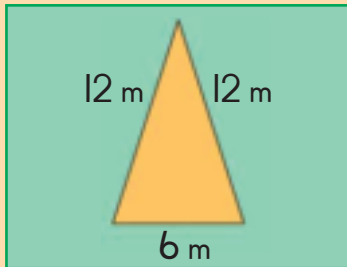
d. Xana va nga endla swikete swingani hi:

R450? _____ R825? _____ R180? _____



Mpf'huka lowu nga kona

Rito ra ndzhendzeleko ri vula ku leha kumbe mpf'huka lowu rhendzelaka xilo.



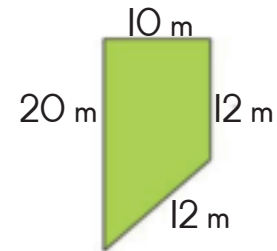
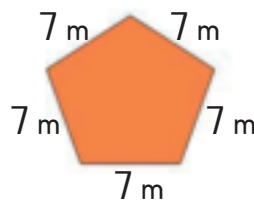
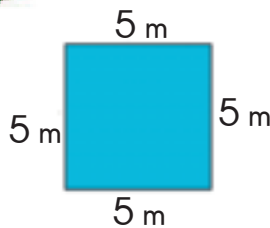
N'wapurasi u na nsimu ya xivumbeko xa yinhlanharhu.

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

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



Kuma mirhendzeleko leyi.



Xirhapa xa Veronica

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

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

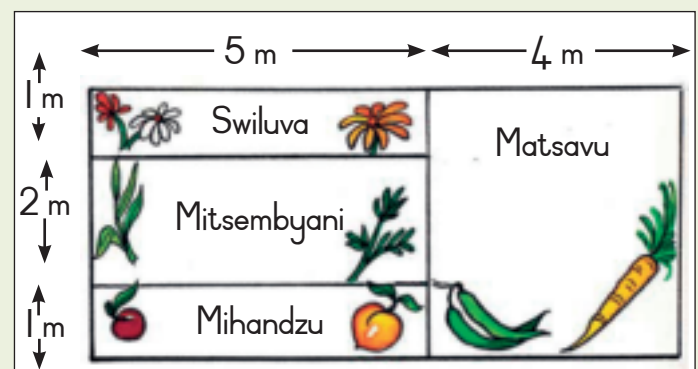
b. Hi swihi swiyenge swimbirhi leswi nga na ndzhendzeleko lowu fanaka?

Ndzhendzeleko wa swona i yini?

_____ na _____ swi na ndzhendzeleko wa _____ m.

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

Xana darata yi ta vitana mali muni? _____





Kunguhata xirhapa xa wena.

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, nghilazi, 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 ringanela 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.



Ku cincelana mali

Kotara ya 3

Tlanga mintlangu leji na munghana wa wena.

Switirhisiwa:

RIOO

RIO

RI

IOc

Ic

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 1 sente. Eka ntlangu lowu hi tirhisa 3 wa tikholomu.



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.

$$\begin{matrix} RI & RI & RI & RI & RI \\ RI & RI & RI & RI & RI \end{matrix} = \text{RIO}$$

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

$$\begin{matrix} \text{RIO} & & \text{RIO} & & \text{RIO} \\ \text{RIO} & \text{RIO} & \text{RIO} & \text{RIO} & \text{RIO} \\ \text{RIO} & & \text{RIO} & & \text{RIO} \end{matrix} = \text{RIOO}$$

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 000.

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 000 hi yena muhluri. Kumbe sungulani hi RI 000 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 tikhoyni ta I sente. Loko mi ri na khume ra tikhoyni ta Ic, ti cinceni mi kuma khoyni ya IOc. Loyi a rhangaka a cinca khume ra tikhoyni 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.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

A hi yenj 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? _____

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.

Kambisisa!
Ringanisa!
Lulamisa!

Nhlamulo ya 1	Nhlamulo ya 2



Ebekari.

Musa u tirhisa rhesipi leyi ku baka khhekhe ra xiponji.

Rhesipi ya khhekhe ra xiponji

Swa khhekhe: 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 1 litara ya khirimi xi nga cheriwa eka: 10 wa makhekhe;

7 wa makhekhe; 8 wa makhekhe



Tinhlayo ta xihatla.

Kambisisa!
Ringanisa!
Lulamisa!

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

Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Swin'wana hi switiviwa

Kotara ya 3



Exitichini xa maphorisa.

Maphorisa ya ntlhanu 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 ntlhanu 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 hlenganile hinkwayo? _____



I lwangu ra njhani?

Tlilasi 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.



Tithaye	✓	✓	✓	✓	✓	✓					
Byanyi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Timhandze	✓	✓	✓	✓	✓	✓	✓	✓			
Mazingi	✓	✓	✓	✓	✓	✓	✓	✓	✓		

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

Tithaye _____ 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? _____

Kambisisa!
Ringanisa!
Lulamisa

Teacher: _____
Sign: _____
Date: _____

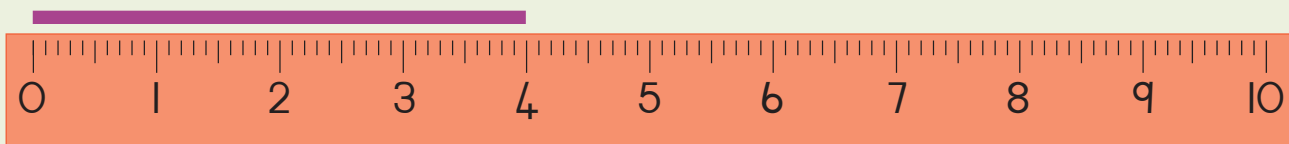
11 12 13 14 15 16 17 18 19 20

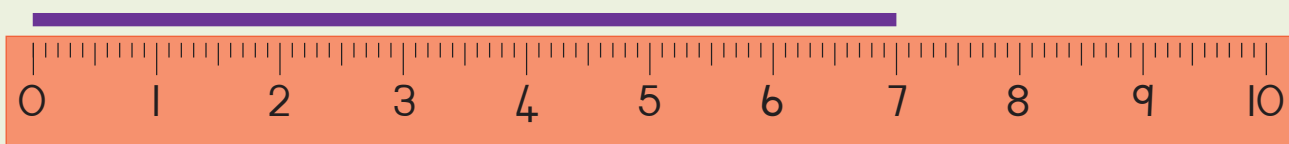
Ku tirha hi tisentimitara

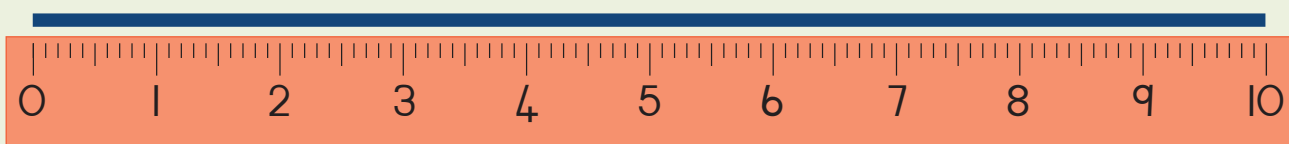
Kotara ya 4



Ntila lowu khalariaiweke wu lehile ku fika kwihi?









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

Ntila	Mpimanyeto	Mpimo	Ku hambana exikarhi ka mpimanyeto na mpimo.



Tirhisa 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 ntimu 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

Tinomboro ta 700 ku fika eka 800

Kotara ya 4



Hlayela u tlhela u tsala.

a. Tihisa 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

800

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.

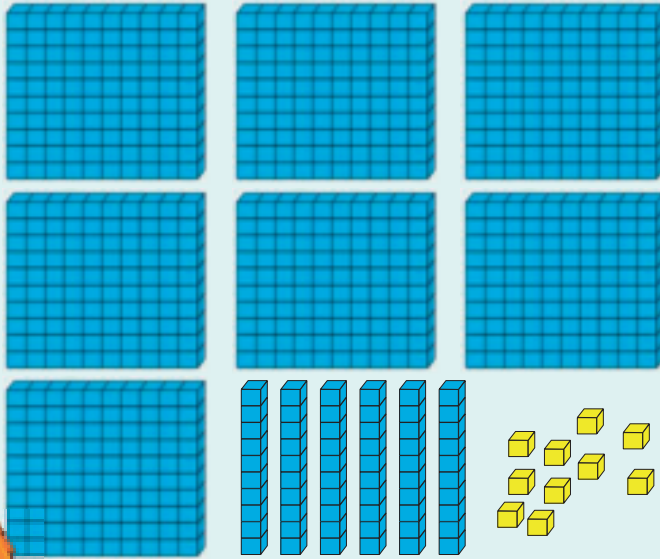
751; _____; _____; _____; _____; _____; _____; _____; _____; _____ 773

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

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



Xana u hlalele tibuloko tingani?



Xana u hlalele tibuloko hi ndlela yihi?



Hetisa mindzhati ya mintsengo.

750			753				757		759	
							789	788	787	
					753	756	759			



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	
-----	--



Teacher:

Sign:

Date:

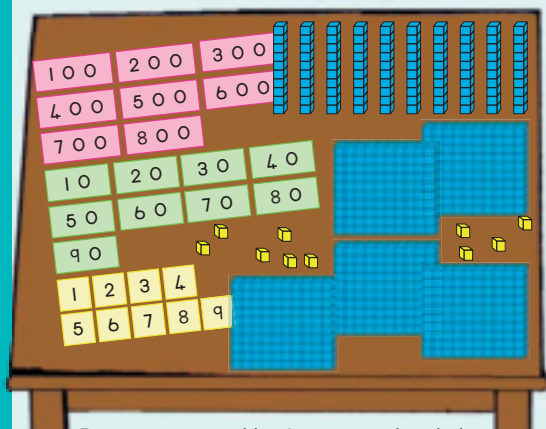
11 12 13 14 15 16 17 18 19 20

qq

Tinomboro tin'wana ta 700 ku fika eka 800

Siku:

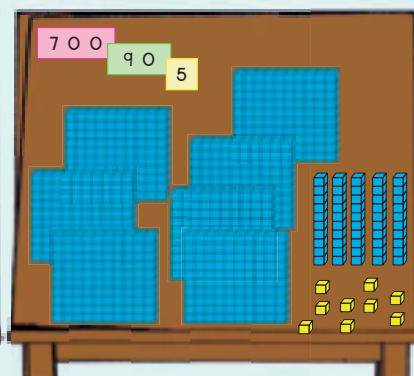
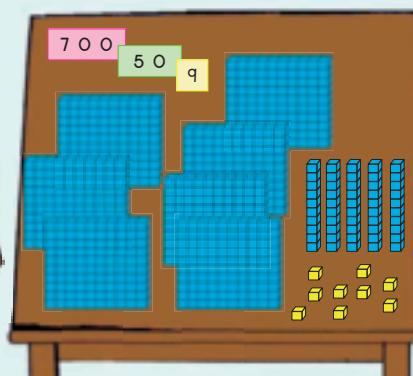
Kotara ya 4



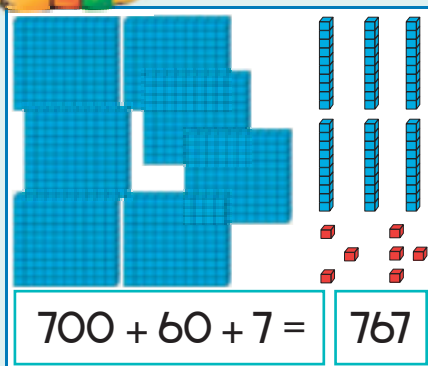
Peter a ri na makhadi ya xiyimela-nkoka
lama landzelaka na tibuloko ta beyisi
ya khume.

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

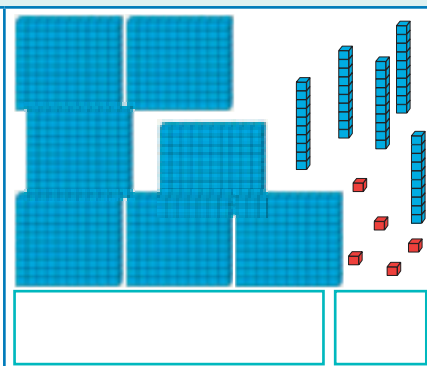
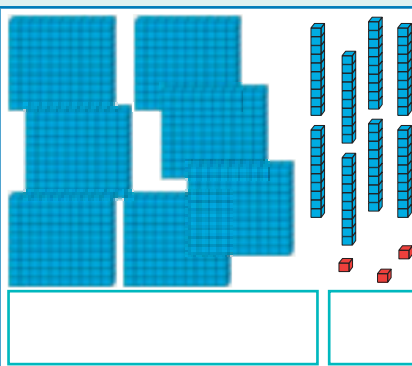
Leswi hi swona leswi
kombisiweke hi Ben.
U endlile yini xo hoxeka?



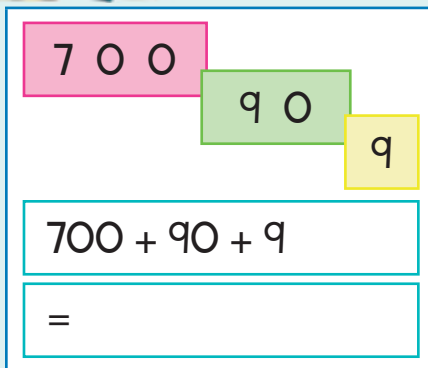
Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



$$700 + 60 + 7 = 767$$

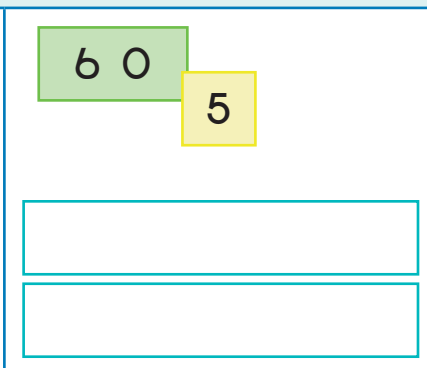
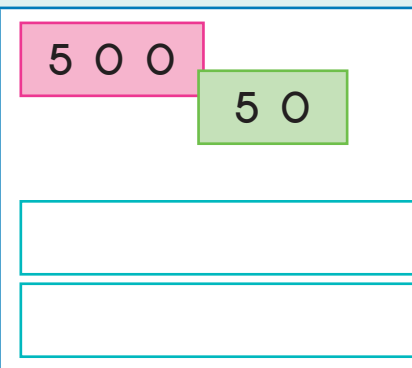


Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



$$700 + 90 + 9$$

=





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	

Xikombiso: 799

7 0 0

9 0

9

7 9 9

799 $700 + 90 + 9$



Tsala mavito ya tinomboro.

668	
757	
799	
742	
691	



Teacher: _____
Sign: _____
Date: _____

100

Siku:

Tinomboro tin'wana ta 800 ku fika eka 900

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

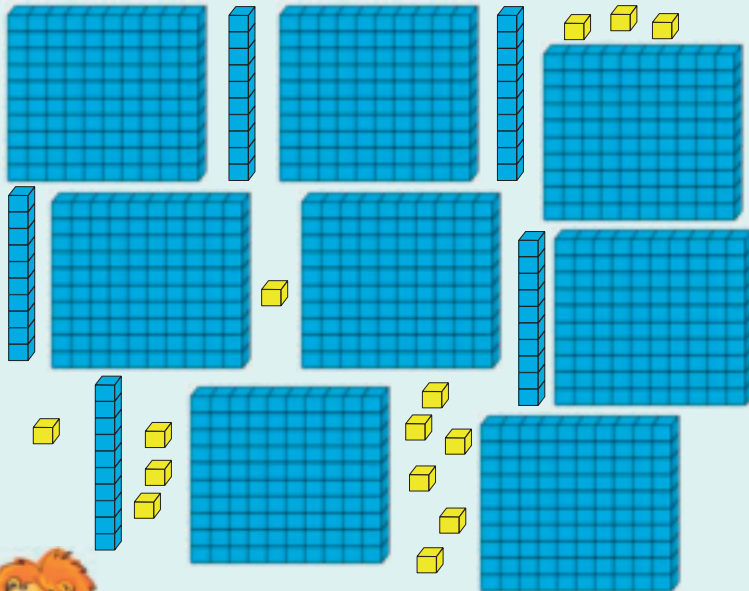
807; _____; _____; _____; _____; _____; _____; _____; _____; _____ 829

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.

830			833				837	838		
							876	881	886	
					843	846	849			



Hetisa tafula.

Tsala ku suka eka nomboro leyitsongo ku ya eka leyikulu.

Tsala ku suka eka nomboro leyikulu ku ya eka leyitsongo.

856, 853, 855, 851, 857		
898, 801, 810, 819, 891		



Tsala nomboro leyi landzelaka hi marito.

845



Teacher:

Sign:

Date:

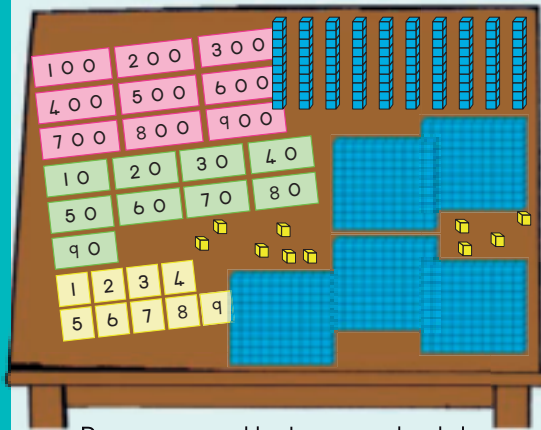
11 12 13 14 15 16 17 18 19 20

101

Tinomboro ta 800 ku fika eka 900

Siku:

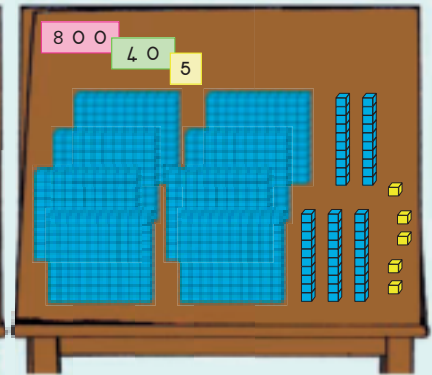
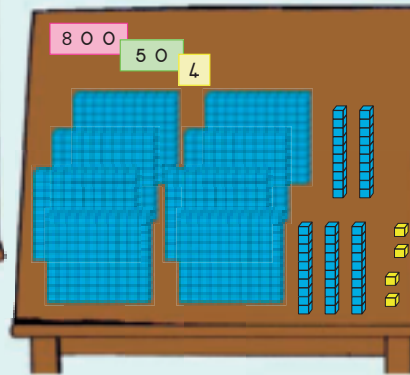
Kotara ya 4



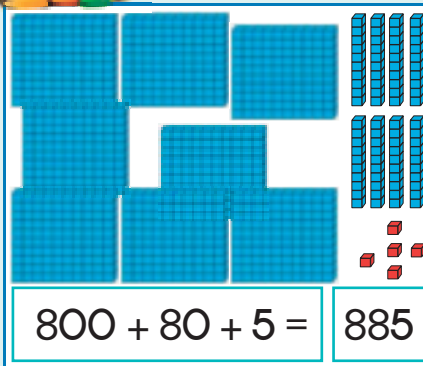
Peter a ri na makhadi ya xiyimela-nkoka na tibuloko ta beyisi ya khume.

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

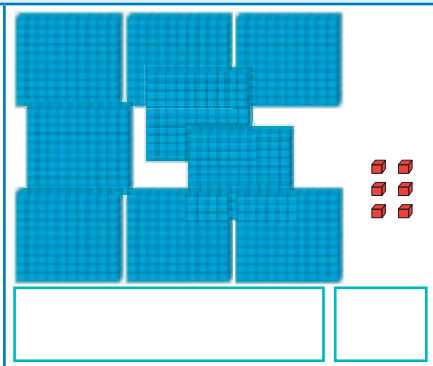
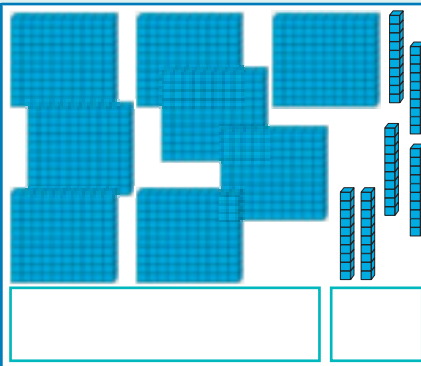
Leswi hi swona leswi kombisiweke hi Ben. Xana i yini lexi a xi endleke hi ndlela yo hoxeka?



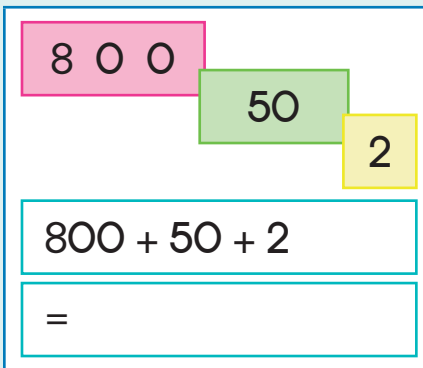
Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



$$800 + 80 + 5 = 885$$

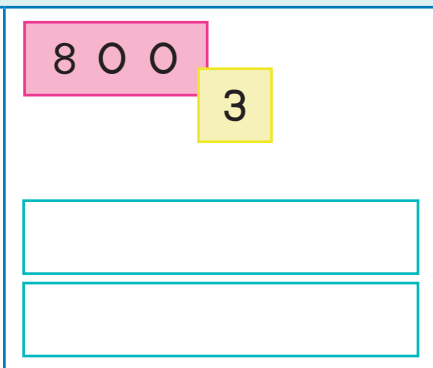
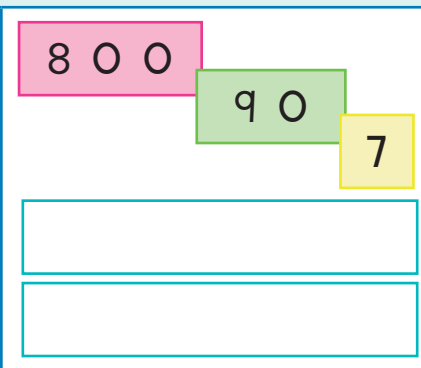


Tsala xivulwa xa tinomboro kutani u tsala nhlamulo.



$$800 + 50 + 2$$

=





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

8 0 0

7 0

6

8 7 6

876 $800 + 70 + 6$



Tsala mavito ya tinomboro.

889	
825	
803	
830	
899	



Teacher:
Sign:
Date:

102a

Siku:

Ku pima swilo

Kotara ya 4



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 tigramu?



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.



Teacher: _____

Sign: _____

Date: _____

A hi pimeni swin'wana

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.



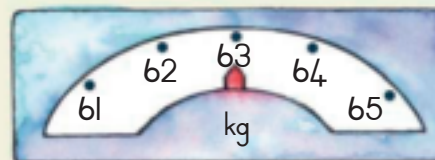
Kuma ntiko wa tona.

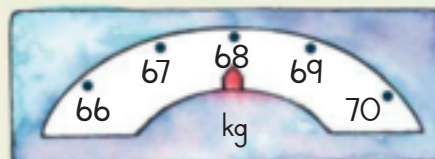
Tsala ntiko hi kg leyi kombisiweke eka swikalu leswi swa swipiringi.













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

$$1\ 000\text{ g} = 1\text{ kg}$$

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



Xana swi na ntiko muni?

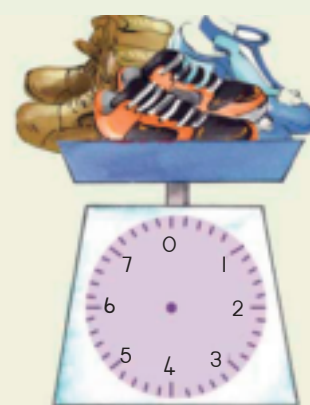
Dirowa exikalwini laha nseve wu faneleke ku ya kona nkarhi wun'wana na wun'wana.



7 kg



4 kg



6 kg



Endla kilogiramu

Engetela ku endla 1 kg (1 000 g).

- $125\text{ g} + 250\text{ g} + 125\text{ g} + \underline{\hspace{2cm}}\text{ g} = 1\ 000\text{ g} (1\text{ kg})$
- $50\text{ g} + 30\text{ g} + 240\text{ g} + 60\text{ g} + 100\text{ g} + \underline{\hspace{2cm}} = 1\text{ kg}$
- $57\text{ g} + 46\text{ g} + 243\text{ g} + 334\text{ g} = \underline{\hspace{2cm}} = 1\ 000\text{ g} (1\text{ kg})$
- $50\text{ g} + 90\text{ g} + 160\text{ g} + \underline{\hspace{2cm}} = 1\ 000\text{ g} (1\text{ kg})$



11 12 13 14 15 16 17 18 19 20

103

Siku:

Tinomboro ta 900 ku fika eka 1 000

Kotara ya 4



Hlayela u tlhela u tsala.

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

Vulela tinomboro ehenhla loko u ri karhi u hlayela.

900



901		903							910
								919	
		943					948		
981									
991								999	

b. Tsala tinomboro leti siyiweke eka giridi laha henhla.

c. Tsala 10 wa tinomboro leti landzelaka 900.

900; _____; _____; _____; _____; _____; _____; _____; _____; _____

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

946; 948; 950; _____; _____; _____; _____; _____; _____

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

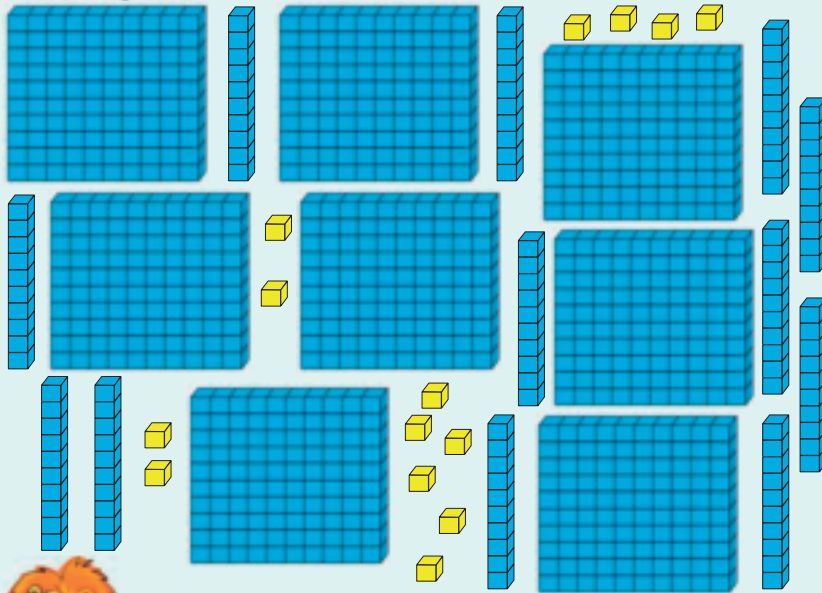
945; _____; _____; _____; _____; _____; _____; _____; _____; 967

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

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



Xana u hlalele tibuloko tingani?



Xana u hlalele tibuloko hi ndlela yih?



Hetisa mindzhati ya mintsengo.

950			953				957	958		
							956	961	966	
					903	906	909			



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	
-----	--



Teacher: _____

Sign: _____

Date: _____

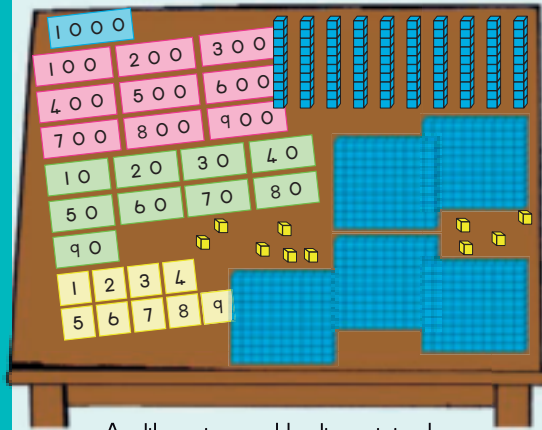
11 12 13 14 15 16 17 18 19 20

104

Siku:

Tinomboro tin'wana ta 900 ku fika eka 1 000

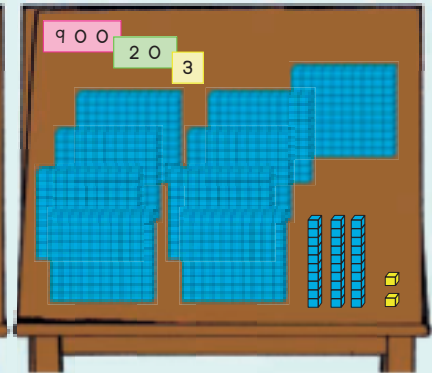
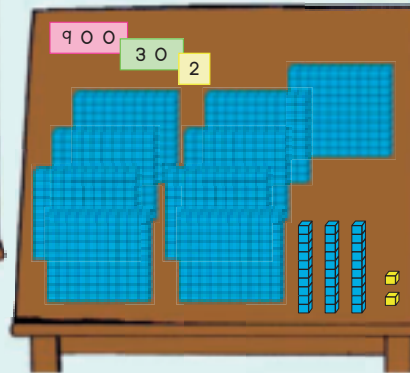
Kotara ya 4



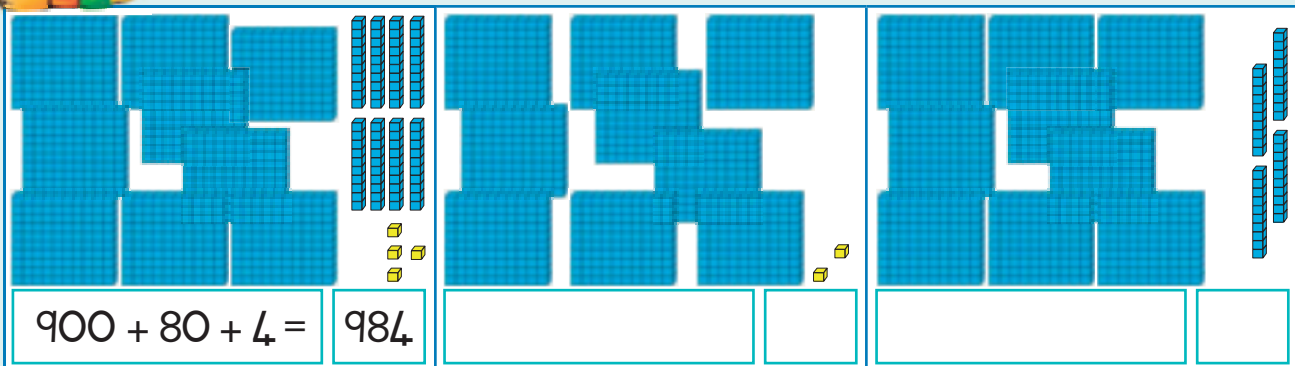
Andile a ri na makhadi ya xijimela-
nkoka na tibuloko ta beyisi ya khume.

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

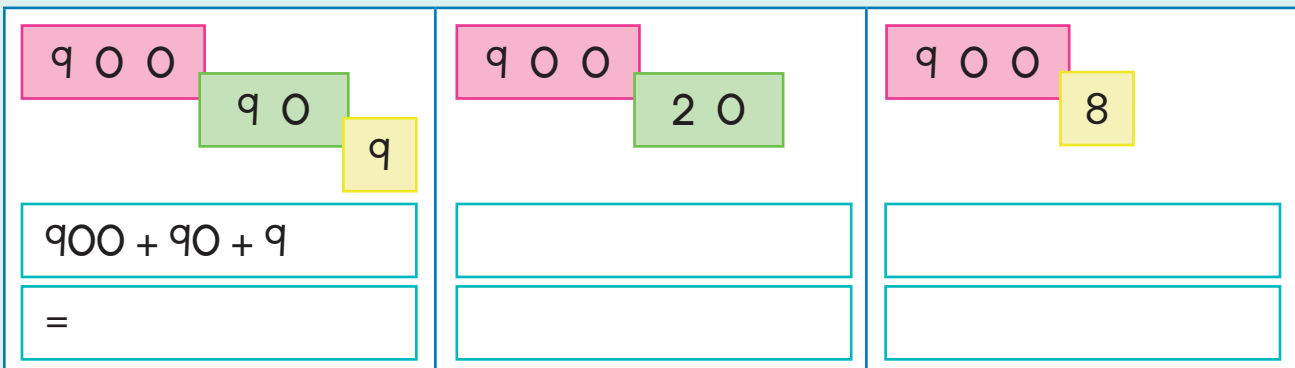
Leswi hi swona leswi kombisiweke
hi Gugu. Xana i yini lexi a xi
endleke hi ndlela yo hoxeka.



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

9 0 0

8 0

4

9 8 4

984

$900 + 80 + 4$



Tsala mavito ya tinomboro.

976	
905	
950	
821	
909	



Teacher: _____
Sign: _____
Date: _____

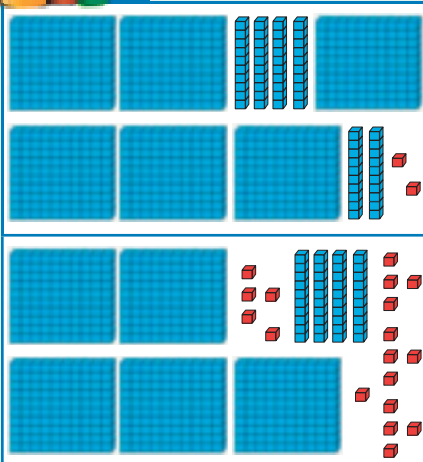
11 12 13 14 15 16 17 18 19 20

Ku hlanganisa no susa ku fika eka 999

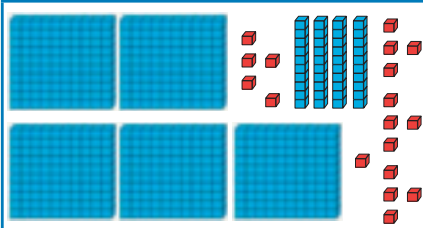
Kotara ya 4



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



Hlamusela leswaku u hlayele tibuloko hi ndlela yihi.



Hlamusela leswaku u hlayele tibuloko hi ndlela yihi.



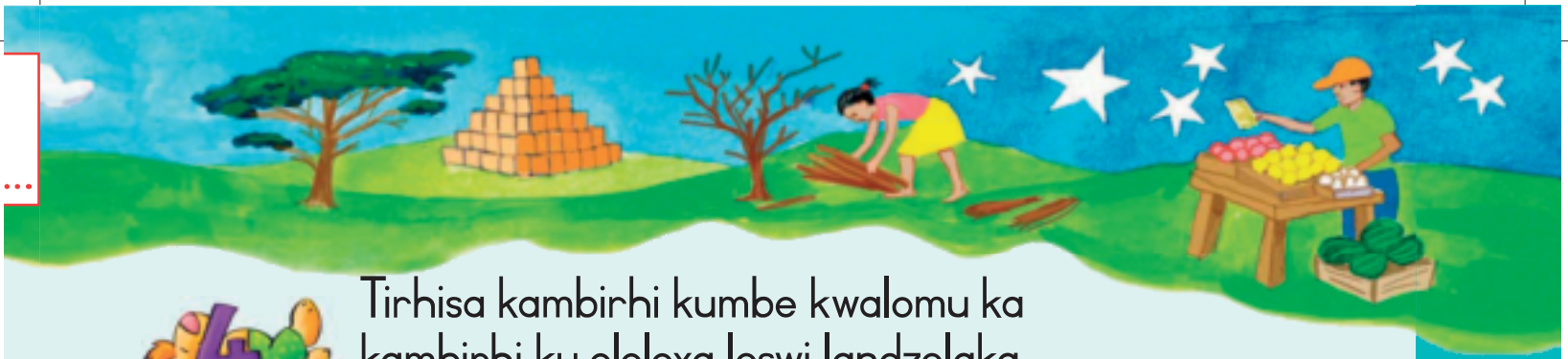
Tirhisa xikombiso ku ku letela.

5 0	5 0	50 kambirhi i 100	3 0 0	3 0 0	
2 0 0	2 0 0		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
 $= 340 + 340$
 $= 340$ kambirhi
 $= 300 + 300 + 40 + 40$
 $= 600 + 80$
 $= 680$

b. $340 + 341$
 $= 340$ kambirhi + 1
 $= 300 + 300 + 40 + 40 + 1$
 $= 600 + 80 + 1$
 $= 681$

c. $470 + 470$

d. $461 + 462$



Ololoxa leswi landzelaka:



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

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

Xana vadyondzi va Giredi ya 3 va na timabulu tingani?



Mayelana na yindlu

Kotara ya 4



Siku ro baka

Hahani Phindi u baka xinkwa eka ovhene ya yena.

Kombisa nkarhi eka tiwachi leti.

U nghanisa xinkwa hi kotara ku bile awara ya 4.

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



Xana xinkwa xi tekile nkarhi wo tanihi 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 tanihi kwihi? _____ wa timinete.



Mintirho ya nimixo



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



	Sungula	Heta	Swi teka nkarhi wo tanihi kwihi?
Ku lulamisa swifihlulo	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 xirhapa

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 tanihi 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 timilitara (ml) ta oyili tingani ku suka hi Musumbhunuku ku fika hi Muggivela?
_____ ml

b. Xana u tirhisa timilitara (ml) ta oyili tingani hi Sonto? _____ ml

c. Bodhela rin'we ra oyili ya 750 wa timilitara (ml) ri durha R18,50.

Xana 4 wa mabodhlela ya durha mali muni? _____.



Teacher: _____
Sign: _____
Date: _____

Ku tirha hi mali

Kotara ya 4



Hlayela tikhoyini na mali ya phepha.

$10 \times \text{R}1 = \text{R}10$	$20 \times \text{R}1 = \text{R} \underline{\hspace{1cm}}$	$50 \times \text{R}1 = \text{R} \underline{\hspace{1cm}}$
$10 \times \text{R}2 = \text{R} \underline{\hspace{1cm}}$	$20 \times \text{R}2 = \text{R} \underline{\hspace{1cm}}$	$50 \times \text{R}2 = \text{R} \underline{\hspace{1cm}}$
$10 \times \text{R}5 = \text{R} \underline{\hspace{1cm}}$	$20 \times \text{R}5 = \text{R} \underline{\hspace{1cm}}$	$50 \times \text{R}5 = \text{R} \underline{\hspace{1cm}}$
$10 \times \text{R}10 = \text{R} \underline{\hspace{1cm}}$	$20 \times \text{R}10 = \text{R} \underline{\hspace{1cm}}$	$50 \times \text{R}10 = \text{R} \underline{\hspace{1cm}}$
$10 \times \text{R}20 = \text{R} \underline{\hspace{1cm}}$	$20 \times \text{R}20 = \text{R} \underline{\hspace{1cm}}$	$50 \times \text{R}20 = \text{R} \underline{\hspace{1cm}}$
$100 \times \text{R}1 = \text{R} \underline{\hspace{1cm}}$	$100 \times \text{R}5 = \text{R} \underline{\hspace{1cm}}$	$100 \times \text{R}20 = \text{R} \underline{\hspace{1cm}}$
$100 \times \text{R}2 = \text{R} \underline{\hspace{1cm}}$	$100 \times \text{R}10 = \text{R} \underline{\hspace{1cm}}$	



Rendzo ra xitimela.

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

Vanhu lavakulu na vana va hakela mali leyi ringanaka.

Kgethi u hakela hi mali leyi ya phepha.

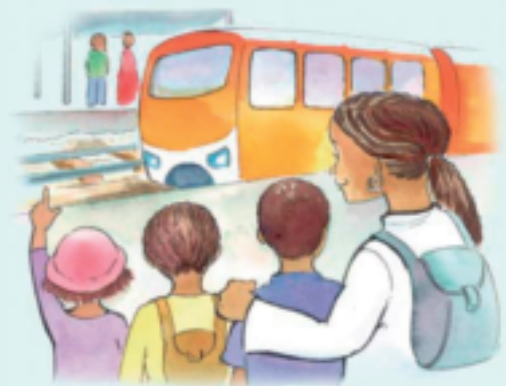


U kuma cinci ya R30.

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

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

Kambisisa!
Ringanisa!
Lulamisa!





Xiphaza xa Sandile.

Sandile u hlalisa tirhekhodi ta mali leyi a yi amukelaka hi xivumbeko xa tafula.

U rhanga hi ku pimanyeta kutani a khakhuleta mali leyi ngenaka ya siku na siku. Muholo i mali leyi tirheriwaka kumbe leyi 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 leyi 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?

+ 50c + R2 + R10 + R100

R87,50 R88 R90 R100 R200

$50c + R2 + R10 + R100 = R112,50$ cinci

Tirhisa mindzhati ya mintsengo ku ku pfuna ku kuma cinci.

Nxavo: R229,40

Hakela hi:



Nxavo: R305,60

Hakela hi:



11 12 13 14 15 16 17 18 19 20

Ku hlanganisa

na ku susa kun'wana ku fika eka 999

Kotara ya 4



A hi ololoxeni xiphiqo.

Gavaza u hlengeletile 234 wa switikara.

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

Xana u na switikara swingani sweswi?

Hi xihhi xivutiso?

Xana u na switikara swingani sweswi?

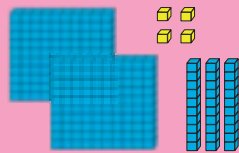
Rito ra nkoka hi rihi? Swin'wana

Hi tihi tinomoro? 234 na 501

A hi kombiseni leswi hi tibuloko ta beyisi ya khume.



Leswi Lisa a swi endleke ku ololoxa xiphiqo xa Gavaza.



Leswi endleke hi Aakar hi leswi.

U dirowile xifaniso.



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

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

Maendlele ya 1

Maendlele ya 2



Mintirho ya nimixo.

Thembi u hlengeta swilo swa phurojeke ya xikolo yo rhisayikila.

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

Hi xihi xivutiso? _____

Hi tihi tinomboro?	Hi rihi rito ra nkoka? Gwajula nhlamulo leyi faneleke. Rito ra nkoka ri hi byela leswaku hi: Hlanganisa Susa
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 xihi xivutiso? _____

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



11 12 13 14 15 16 17 18 19 20

Ku hlanganisa no susa ku fika eka 999 nakambe

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 _____.

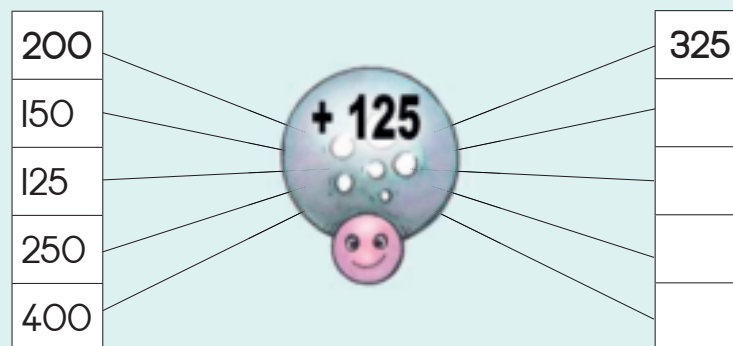
f. Hafu ya 300 i _____.

g. 420 kambirhi i _____.

h. Hafu ya 600 i _____.



Hlanganisa
na 125.





I yini xi endlaka 1 000?

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

Lava mindyangu ya tinomboro ta + na –

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

$123 + 77 = \square$	$\square - 77 = 123$	$\square - 123 = 77$
$650 + \square = 800$	$800 - 650 = \square$	$\square + 650 = 800$
$1000 - 250 = \square$	$1000 - \square = 250$	$250 + \square = 1000$
$56 + \square = 300$	$300 - \square = 56$	$\square + 56 = \square$
$820 + \square = 1000$	$1000 - \square = 820$	$1000 - 820 = \square$



Kambisisa!
Ringanisa!
Lulamisa!

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:

$925 + 53 = \square$ $571 + 202 = \square$ $786 + 75 = \square$ $903 + 95 = \square$

11 12 13 14 15 16 17 18 19 20

Swiphazamiso swa mpimo

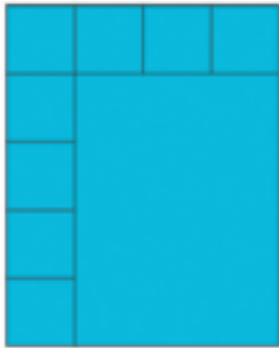
Kotara ya 4



Kuma vuandlalo

I swikwere swingani swa sayizi  leji 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.



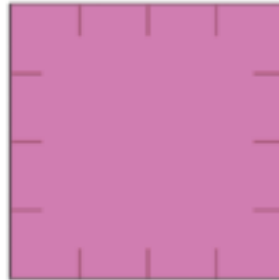
b.



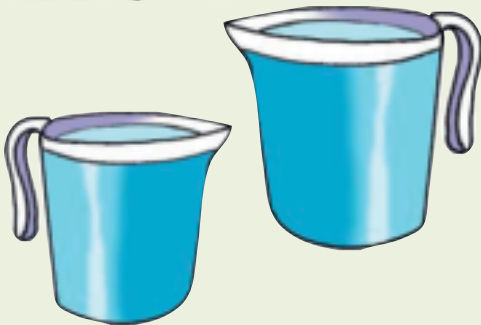
c.



d.



Tshunxa xitekatekisani.



U fanele ku 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?

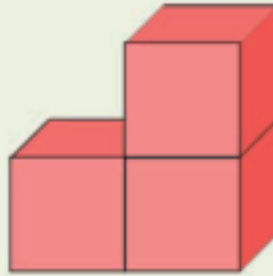
Vuthala: Ku na tindlela timbirhi ta maendlele.



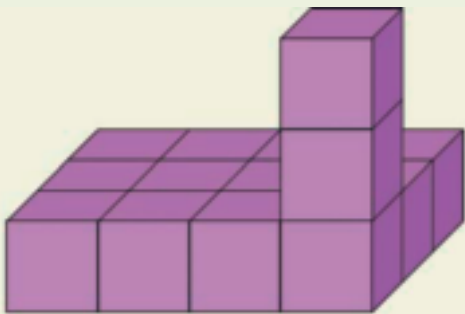
Xana u vona yini?

Tibuloko tinharhu ti namarhetiwe swin'we tanihi le ka xifaniso lexi.

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



Hlayela tikhubu.



I tikhubu tingani leti vumbaka xivumbeko lexi?



Ntlhontlho: Xitekatekisani xa nkarhi.

U na 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 kumisisa loko 15 wa timinete ti hundzile?

Kambisisa!
Ringanisa!
Lulamisa!



11 12 13 14 15 16 17 18 19 20

Tipatironi ta tinomboro: vukhume ku fika eka 900

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 **rihlaza**:
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. $87 - 10 - 10 - 10 =$ _____

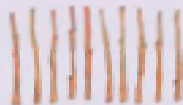
i. $880 + 10 + 10 =$ _____

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

1 rixaxa ra 10 wa tinyandza = 100 wa tihunyi

$$10 \times 10 = 100$$

2 wa tinxaxa ta 10 wa tinyandza = _____ wa tihunyi

$$20 \times 10 = \underline{\hspace{2cm}}$$

4 wa tinxaxa ta 10 wa tinyandza = _____ wa tihunyi

$$40 \times 10 = \underline{\hspace{2cm}}$$

10 wa tinxaxa 10 wa tinyandza = _____ wa tihunyi

$$100 \times 10 = \underline{\hspace{2cm}}$$



Tinyandza tingani?

700 wa tihunyi ti endla _____ wa tinyandza.

900 wa tihunyi ti endla _____ wa tinyandza.

1 000 wa tihunyi ti endla _____ wa tinyandza.



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Yisa eka 10 ya le kusuhi

Kotara ya 4

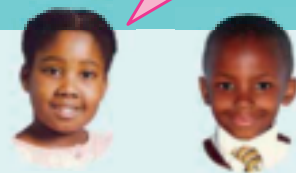
Hi yisile tinomboro eka khume ra le kusuhi eka phepha ro tirhela leri nga hundza. Languta ndzhati lowu wa mintsengo kutani u hlamusela munghana wa wena leswi u nga ta yisisa xiswona eka khume ra le kusuhi.



Tsundzuka leswaku u fanele ku xiya vuniwe 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? _____

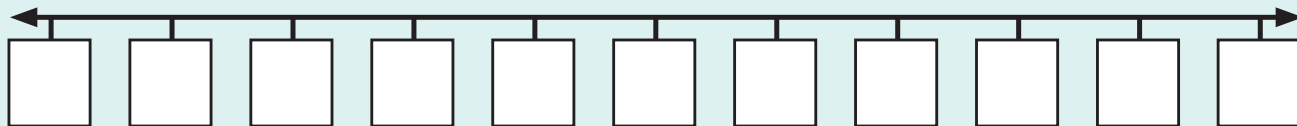
151 yi ta va yini? _____



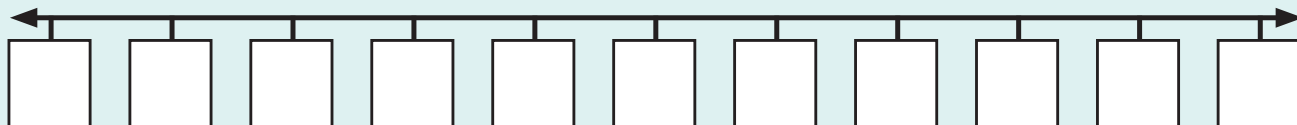
Yisa eka 10 ya le kusuhi.

Dirowa ndzhati wa mintsengo wa wena.

195



945





Yisa eka IO ya le kusuhi.

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

- Tsala leswaku nomboro leyi faneleke ku katsakanyiwa yi le xikarhi ka vukhume byihi 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 IO 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?

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

Ku andzisa no avanyisa:
vuntlhanu ku fika eka 100

Kotara ya 4



Hetisa dayigiramu ya nkholuko.

Leswi ngenisiwaka

1
3
5
7
9

nawu

$\times 5$

Leswi kumekaka

Leswi ngenisiwaka

2
4
6
8
10

nawu

$\times 5$

Leswi kumekaka



Hetisa tafula leri nga laha hansi:

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



Khakhuleta:

$$12 \times 5$$

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

$$= 50 + 10$$

$$= 60$$

$$11 \times 5$$

$$13 \times 5$$

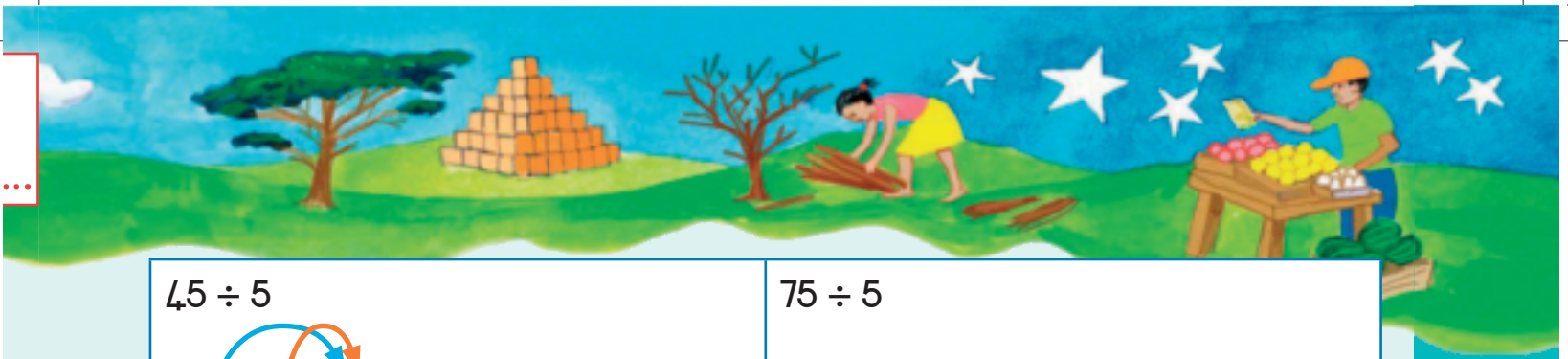
$$= (10 + 3) \times 5$$

$$= 50 + 15$$

$$= 50 + 10 + 5$$

$$= 65$$

$$13 \times 5$$



$$45 \div 5$$

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

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

$$= 8 + 1$$

$$= 9$$

$$75 \div 5$$

$$48 \div 5$$

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

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

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

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

$$13 \div 5$$

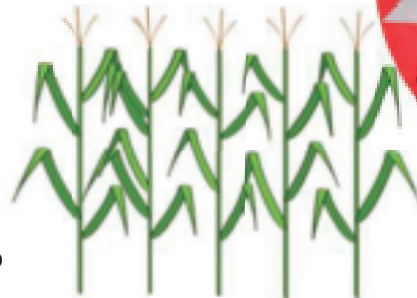


Ololoxa swiphiqo leswi landzelaka:

Xirhapa xa matsavu xi na 14 wa tinxaxa ta swimilana.

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

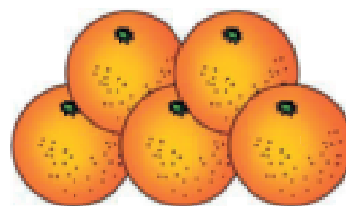
Loko ku ri na ntsengo wa 70 wa swimilana, xana ku na swimilana swingani eka rixaxa rin'wana na rin'wana?



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

U na 85 wa malamula.

Xana a nga tata swisakana swingani?



11 12 13 14 15 16 17 18 19 20

Tipatironi ta

tinomboro: vuntlhanu ku fika eka 900

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	970
971		973	974	975	976		978	979	980
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 hlamusele.
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: _____

11 12 13 14 15 16 17 18 19 20



Swinwana hi ndzingano



Xivoni, xivoni



Tlanga na munghana wa wena mi tirhisa ujinwe ya tisele ta swiphazamiso swo thajila (leswi nga na 14 wa swiphemu) ku suka eka Xitsemiwa xa 10.

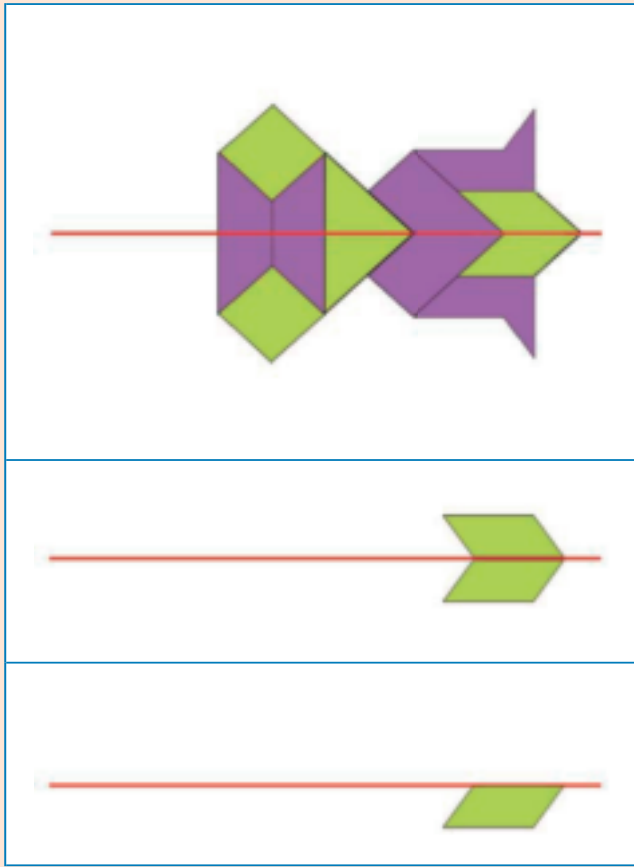
Mutlangi unwana na unwana u na hafu ya swiphemu (7 wa swiphemu) swa swivumbeko swa xiphazamiso xo thajila. Ku hava xiphemu lexi fanaka na xinwana.

Dirowa ntjila exikarhi ka xiphephana. Lowu wu ta va "ntjila wa ntjheriselo".

Mutlangi wo sungula u veka xinwe xa swiphemu swa yena ekusuhi na ntjila.

Mutlangi wa vumbirhi u veka ntjheriselo wa xona eka tlhelo lerinwana ra ntjila. Wu fanele ku khumba ntjila kumbe xinwana xa swivumbeko leswi vekiweke.

Yanani emahlweni ku fikela loko swiphemu hinkwaswo swi tirhisiwile.

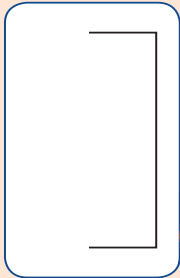
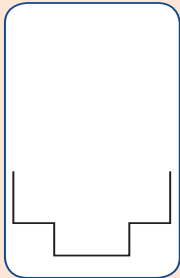
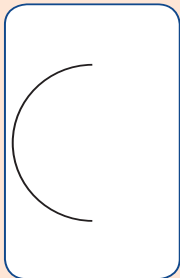
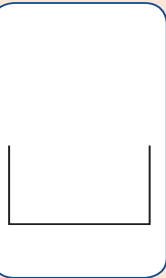
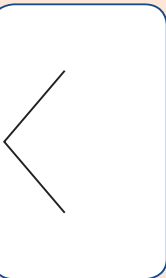
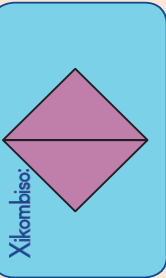


Dirowa tlhelo lerinwana ra xivumbeko.

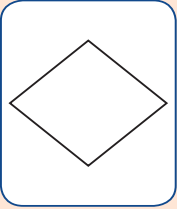
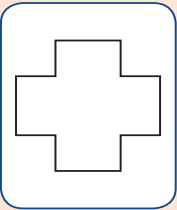
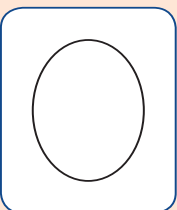
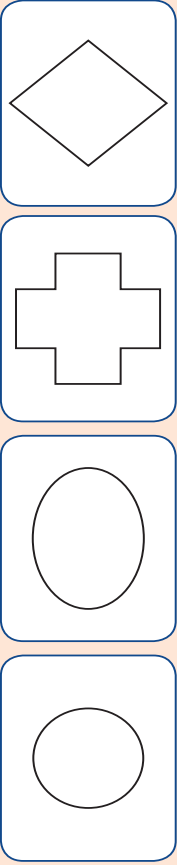
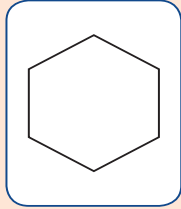
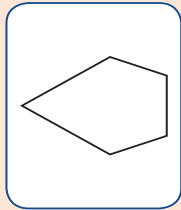
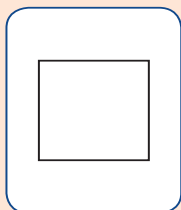
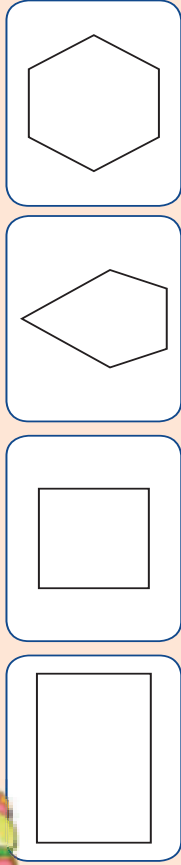
Kutani kombisa ntjila wa ndzingano.



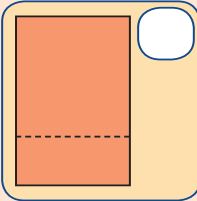
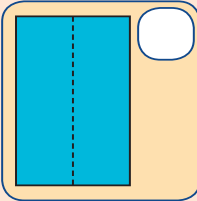
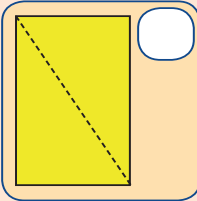
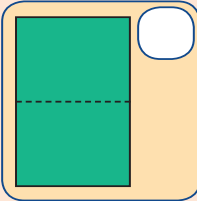
Xikombiso:



Dirowa mintjila ya ndzingano eka leswi landzelaka:



Gwajula swiphemu leswi nga na mintjila ya ndzingano leyi faneleke.



Teacher:
Sign: _____
Date: _____



Tipatironi ta

tinomboro: vumbirhi ku fika eka 900

A hi hlayeleni hi vuntlhanu 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

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

Leti tsonderiweke hi xirhendzevutana xa waisi:	Ku hlayela hi _____.
Tsala patironi:	
Leti tsonderiweke hi xirhendzevutana xa rihlaza:	Ku hlayela hi _____.
Tsala patironi:	

Khakhuleta.

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. $846 - 2 - 2 - 2 =$ _____

Fadzenga na ndzingano.

a. Dirowa (X) ekusuhi na tindhlayo-fadzenga na (✓) ekusuhi na tindhlayo-ndzingano.

q14 q23 q16 q07 q29 q12 q11 q15
q08 q17 q25 q31 q30 q10 q09 q22 q33

b. Hlamula ndzingano kumbe fadzenga.

Hlanganisa tindhlayo-fadzenga timbirhi. U kuma nhlayo _____.

Hlanganisa tindhlayo-fadzenga timbirhi. U kuma nhlayo _____.

U hlanganisa tindhlayo-fadzenga tinharhu. U kuma nhlayo _____.

Ku byala mirhi.

Leyi i ndlela yinjwana yo byala 48 wa mirhi eka tinxaxa leti ringanaka.

Hi nga tsala: $2 \times 24 = 48$ (2 wa tinxaxa ta 24 wa mirhi = 48) kumbe $48 \div 2 = 24$ (48 wa mirhi eka 2 wa tinxaxa leti ringanaka swi hi nyika 24 wa mirhi eka rixaxa).

Hlayela tinxaxa na mirhi eka xifaniso xinwana na xinwana lexi nga laha hansi.

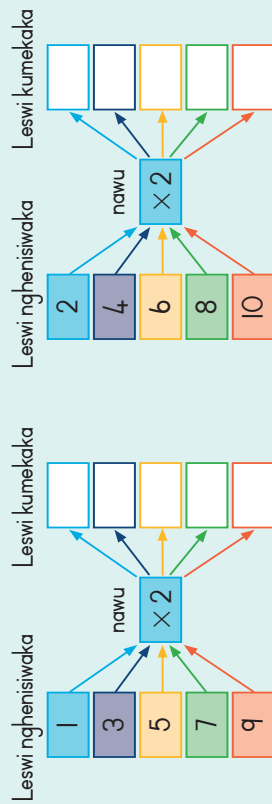
Tsala xivulwa xa tinomboro $\times$ na $\div$ ku yelanisa.

a. $\begin{array}{r} \times \\ \hline \div \\ \hline \end{array}$	$\begin{array}{r} = \\ = \end{array}$	
b. $\begin{array}{r} \times \\ \hline \div \\ \hline \end{array}$	$\begin{array}{r} = \\ = \end{array}$	
c. $\begin{array}{r} \times \\ \hline \div \\ \hline \end{array}$	$\begin{array}{r} = \\ = \end{array}$	
d. Kuma ndlela yinjwana yo byala 48 wa mirhi hi tinxaxa.	$\begin{array}{r} \times \\ \hline \div \\ \hline \end{array}$	e. Kuma ndlela yinjwana yo byala 48 wa mirhi hi tinxaxa.

Kuandzisa no avanyisa: vumbirhi ku fika eka 100

Kotara ya 4

Hetisa dayigiramu ya nkhluluko.



Hetisa tafula leri nga laha hansi:

×	1	2	3	4	5	6	7	8	9	10
2										

Khakhuleta:

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



Oloxa swiphiqo leswi landzeldaka:

Xir-hapa xa matsavu xi na 32 wa tinxaxa ta swimilana.

Rixaxa rin'wana na rin'wana ri na 2 wa swimilana.

Xana ku na swimilana swingani exirhapani?

Xir-hapa xa matsavu xi na 40 wa tinxaxa ta swimilana.

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

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

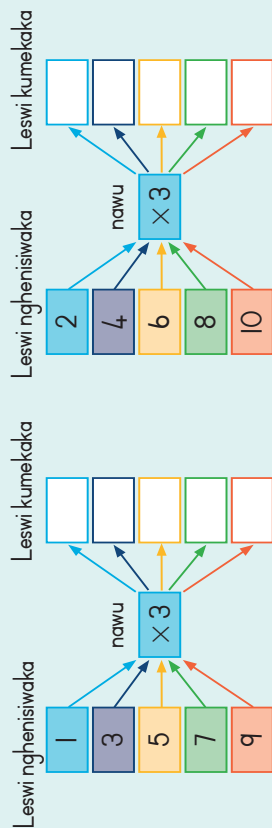


Teacher: _____
Sign: _____
Date: _____

Ku andzisa no avanyisa: vunharhu ku fika eka 100

Kotara ya 4

Hetisa dayigiramu ya nkhluluko.



Hetisa tafula leri nga laha hansi:

×	1	2	3	4	5	6	7	8	9	10
3										

Khakhuleta:

12×3	11×3
$= (10 + 2) \times 3$ $= 30 + 6$ $= 36$	
17×3	19×3
$= (10 + 7) \times 3$ $= 30 + 21$ $= 30 + 20 + 1$ $= 51$	



Ololoxa swiphiqo leswi landzelaka:

Marlene u na 30 wa swiwitisi.

Swi andzisa ka khume eka leswi Jacob a nga na swona.

Xana Jacob u na swiwitisi swingani?

Xirhapa xa matsavu xi na 29 wa tinxaxa ta swimilana.

Rixaxa rinwana na rinwana ri na 3 wa swimilana.

Xana ku na swimilana swingani exirhapani?



Tipatironi ta tinomboro:

vanharhu ku fika eka 1 000

A hi hlalajeni hi vanharhu ku 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

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

Leti tsonderiweke hi xirhendzevutana xa xilamula :	Ku hlajela hi _____.
Tsala patironi:	
Leti tsonderiweke hi xirhendzevutana xa rihlaza :	Ku hlajela hi _____.
Tsala patironi:	



Khakhuleta.

a. $873 + 3 + 3 =$ _____	b. $824 - 3 - 3 =$ _____	c. $841 + 3 + 3 =$ _____
d. $837 - 3 - 3 - 3 =$ _____	e. $889 + 3 =$ _____	f. $846 - 3 - 3 =$ _____
g. $802 + 3 + 3 + 2 =$ _____	h. $819 - 3 =$ _____	i. $880 - 3 - 3 - 3 =$ _____

Bodo ya tinomboro ta 901 ku fika eka 1 000

901		912	922	933	943	954	964	975	985	996	1000
902		913	923	934	944	955	965	976	986	997	1001
903		914	924	935	945	956	966	977	987	998	1002
904		915	925	936	946	957	967	978	988	999	1003
905		916	926	937	947	958	968	979	989	990	1004
906		917	927	938	948	959	969	970	980	991	1005
907		918	928	939	949	950	960	971	981	992	1006
908		919	929	940	951	961	972	982	993	994	1007
909		920	930	941	952	962	973	983	994	995	1008
910		921	931	942	953	963	974	984	995	996	1009
911		922	932	943	954	964	975	985	996	997	1010
912		923	933	944	955	965	976	986	997	998	1011
913		924	934	945	956	966	977	987	998	999	1012
914		925	935	946	957	967	978	988	999	1000	1013
915		926	936	947	958	968	979	989	990	991	1014
916		927	937	948	959	969	970	980	991	992	1015
917		928	938	949	950	960	971	981	992	993	1016
918		929	939	940	951	961	972	982	993	994	1017
919		930	940	951	961	971	981	991	992	993	1018
920		931	941	952	962	972	982	992	993	994	1019
921		932	942	953	963	973	983	993	994	995	1020
922		933	943	954	964	974	984	994	995	996	1021
923		934	944	955	965	975	985	995	996	997	1022
924		935	945	956	966	976	986	996	997	998	1023
925		936	946	957	967	977	987	997	998	999	1024
926		937	947	958	968	978	988	998	999	1000	1025
927		938	948	959	969	979	989	999	1000	1001	1026
928		939	949	950	960	970	980	990	991	992	1027
929		940	950	960	970	980	990	991	992	993	1028
930		941	951	961	971	981	991	992	993	994	1029
931		942	952	962	972	982	992	993	994	995	1030
932		943	953	963	973	983	993	994	995	996	1031
933		944	954	964	974	984	994	995	996	997	1032
934		945	955	965	975	985	995	996	997	998	1033
935		946	956	966	976	986	996	997	998	999	1034
936		947	957	967	977	987	997	998	999	1000	1035
937		948	958	968	978	988	998	999	1000	1001	1036
938		949	959	969	979	989	999	1000	1001	1002	1037
939		950	960	970	980	990	991	992	993	994	1038
940		951	961	971	981	991	992	993	994	995	1039
941		952	962	972	982	992	993	994	995	996	1040
942		953	963	973	983	993	994	995	996	997	1041
943		954	964	974	984	994	995	996	997	998	1042
944		955	965	975	985	995	996	997	998	999	1043
945		956	966	976	986	996	997	998	999	1000	1044
946		957	967	977	987	997	998	999	1000	1001	1045
947		958	968	978	988	998	999	1000	1001	1002	1046
948		959	969	979	989	999	1000	1001	1002	1003	1047
949		960	970	980	990	991	992	993	994	995	1048
950		961	971	981	991	992	993	994	995	996	1049
951		962	972	982	992	993	994	995	996	997	1050
952		963	973	983	993	994	995	996	997	998	1051
953		964	974	984	994	995	996	997	998	999	1052
954		965	975	985	995	996	997	998	999	1000	1053
955		966	976	986	996	997	998	999	1000	1001	1054
956		967	977	987	997	998	999	1000	1001	1002	1055
957		968	978	988	998	999	1000	1001	1002	1003	1056
958		969	979	989	999	1000	1001	1002	1003	1004	1057
959		970	980	990	991	992	993	994	995	996	1058
960		971	981	991	992	993	994	995	996	997	1059
961		972	982	992	993	994	995	996	997	998	1060
962		973	983	993	994	995	996	997	998	999	1061
963		974	984	994	995	996	997	998	999	1000	1062
964		975	985	995	996	997	998	999	1000	1001	1063
965		976	986	996	997	998	999	1000	1001	1002	1064
966		977	987	997	998	999	1000	1001	1002	1003	1065
967		978	988	998	999	1000	1001	1002	1003	1004	1066
968		979	989	999	1000	1001	1002	1003	1004	1005	1067
969		980	990	991	992	993	994	995	996	997	1068
970		981	991	992	993	994	995	996	997	998	1069
971		982	992	993	994	995	996	997	998	999	1070
972		983	993	994	995	996	997	998	999	1000	1071
973		984	994	995	996	997	998	999	1000	1001	1072
974		985	995	996	997	998	999	1000	1001	1002	1073
975		986	996	997	998	999	1000	1001	1002	1003	1074
976		987	997	998	999	1000	1001	1002	1003	1004	1075
977		988	998	999	1000	1001	1002	1003	1004	1005	1076
978		989	999	1000	1001	1002	1003	1004	1005	1006	1077
979		990	1000	1001	1002	1003	1004	1005	1006	1007	1078
980		991	1001	1002	1003	1004	1005	1006	1007	1008	1079
981		992	1002	1003	1004	1005	1006	1007	1008	1009	1080
982		993	1003	1004	1005	1006	1007	1008	1009	1010	1081
983		994	1004	1005	1006	1007	1008	1009	1010	1011	1082
984		995	1005	1006	1007	1008	1009	1010	1011	1012	1083
985		996	1006	1007	1008	1009	1010	1011	1012	1013	1084
986		997	1007	1008	1009	1010	1011	1012	1013	1014	1085
987		998	1008	1009	1010	1011	1012	1013	1014	1015	1086
988		999	1009	1010	1011	1012	1013	1014	1015	1016	1087
989		1000	1010	1011	1012	1013	1014	1015	1016	1017	1088
990		1001	1011	1012	1013	1014	1015	1016	1017	1018	1089
991		1002	1012	1013	1014	1015	1016	1017	1018	1019	1090
992		1003	1013	1014	1015	1016	1017	1018	1019	1020	1091
993		1004	1014	1015	1016	1017	1018	1019	1020	1021	1092
994		1005	1015	1016	1017	1018	1019	1020	1021	1022	1093
995		1006	1016	1017	1018	1019	1020	1021	1022	1023	1094
996		1007	1017	1018	1019	1020	1021	1022	1023	1024	1095
997		1008	1018	1019	1020	1021	1022	1023	1024	1025	1096
998		1009	1019	1020	1021	1022	1023	1024	1025	1026	1097
999		1010	1020	1021	1022	1023	1024	1025	1026	1027	1098
1000		1011	1021	1022	1023	1024	1025	1026	1027	1028	1099

Tatisa tinomboro leti sijiweke.

Khalara tibuloko ta tinomboro leti sijiweke hi nhlaza. Khalara tibuloko to basa leti nga na tinomboro hi mublobo wo tshwuka.

Xana u vona patironi ya njhani?

Hetisa tipatironi.

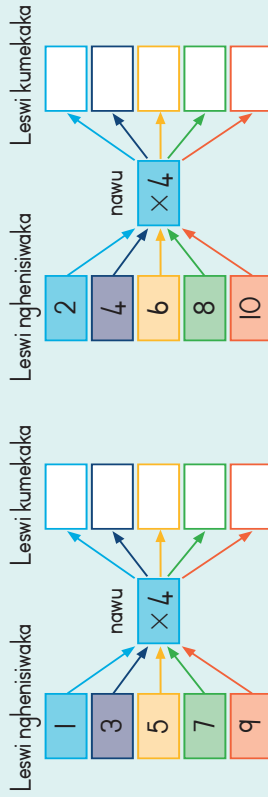
a. Hlanganisa 4 wa vanharhu eka 981.	984, 987, 990, 993
b. Hlanganisa 5 wa vanharhu eka 973.	_____
c. Susa 4 wa vanharhu eka 975.	_____
d. Susa 3 wa vanharhu eka 947.	_____
e. Hlanganisa 2 wa vanharhu eka 932.	_____

Teacher:
Sign:

Ku andzisa no avanyisa: vumene ku fika eka 100

Kotara ya 4

Hetisa dayigiramu ya nkhluluko.



Hetisa tafula leri nga laha hansi:

×	1	2	3	4	5	6	7	8	9	10
4										

Khakhuleta:

$$\begin{aligned}
 12 \times 4 &= (10 + 2) \times 4 \\
 &= 40 + 8 \\
 &= 48
 \end{aligned}$$

$$\begin{aligned}
 13 \times 4 &= (10 + 3) \times 4 \\
 &= 30 + 12 \\
 &= 30 + 10 + 2 \\
 &= 52
 \end{aligned}$$

$$11 \times 4$$

$$15 \times 4$$

$$48 \div 6$$

$$\begin{aligned}
 &= (40 + 8) \div 4 \\
 &= (40 \div 4) + (8 \div 4) \\
 &= 10 + 2 \\
 &= 12
 \end{aligned}$$

$$64 \div 4$$

$$45 \div 4$$

$$\begin{aligned}
 &= (40 + 5) \div 4 \\
 &= (40 \div 4) + (5 \div 4) \\
 &= 10 + 1 \text{ nsalo i } 1 \\
 &= 11 \text{ nsalo i } 1
 \end{aligned}$$

$$49 \div 4$$



Obloxa swiphiao leswi landzelaka:

Tony u na 36 wa swiwi.

U dya 4 wa swiwi siku rinwana na rinwana.

Xana u ta dya swiwi eka masiku mangani?

David u xavisa maphakete lama nga na 4 wa mlamula endzeni ka phakete rinwana na rinwana.

U na 88 wa mlamula.

Xana u ta tata maphakete mangani?



Tipatironi ta tinomboro: vumune ku fika eka 1 000

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

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

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

Leti tsonderiweke hi xirhendzevutana xa nhlaza :	Ku hlaleni hi _____.
Tsala patironi:	
Leti tsonderiweke hi xirhendzevutana xa xivunguvungu :	Ku hlaleni 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 tinomboro ta 901 ku fika eka 1 000.

901		903	904	905		907	908	909	
911	912	913		915	916	917		919	920
921		923	924	925		927	928	927	
931	932	933		935	936	937		939	940
941		943	944	945		947	948	949	
951	952	953		955	956	957		959	960
961		963	964	965		967	968	969	
971	972	973		975	976	977		979	980
981	982	983	984	985		987	988	989	
991	992	993		995	996	997		999	1000
901	902	903	904	905	906	907	908	909	1000

Tatisa tinomboro leti siyiweke.

Khalara tibuloko ta tinomboro leti siyiweke hi nhlaza. Khalara tibuloko to basa leti nga
na tinomboro hi muhlovo wo tshwuka.

Xana u vona patironi ya njhani?



Hetisa tipatironi.

a. Hlanganisa 4 wa vumune eka 980.	984, 988, 992, 996
b. Hlanganisa 5 wa vumune eka 971.	_____
c. Susa 4 wa vumune eka 963.	_____
d. Susa 3 wa vumune eka 927.	_____
e. Hlanganisa 2 wa vumune eka 938.	_____

Teacher: _____
Sign: _____
Date: _____

Swiphemu leswi ringandaka swa xiheri

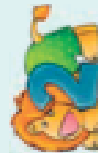
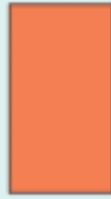
Hafu yinwe, hi ndlela yih na yih leyi u yi tsemaka hayona.

Tsema tujinhlamune eka phepha ra mihlovhlovo (ku suka Xitsemiwa xa II).



Kambisa tindlela to hambana to endla hafu yinwe.

1. Petsa phepha ra yinhlamune hi hafu eka tihelo ro leha. Tsema phepha hi hafu laha ku petsiweke kona. Xinwana na xinwana xa swiphemu leswi swa ringana hi soyizi. Xiphemu xinwana na xinwana i hafu ($\frac{1}{2}$) ya yinhlamune yo sungula.
2. Petsa phepha rinwana ra yinhlamune hi hafu ri hingakanya. Tsema phepha hi hafu laha ku petsiweke kona. Xinwana na xinwana xa swiphemu leswi swa ringana hi soyizi. Xiphemu xinwana na xinwana i hafu ya xiphephana xo sungula.
3. Hi yih ndlela yinwana yo avanyisa phepha eka swiphemu swimbirhi leswi ringandaka? Lavisisa hi phepha na xikero, kutani u pfampfarhuta ntula wa laha u nga ta petsa no tsema kona.



Swinwana swiphemu swa xiheri leswi ringandaka.

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

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

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

Loko hi avanyisa xilo eka 5 wa swiphemu leswi ringandaka, hi vitana swiphemu leswi xa-ntlhanu.



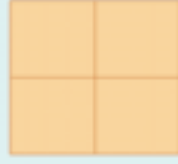
Tisangweji ta lanci.

Thabo na 3 wa vanghana va yena va endla tisangweji to tala ta lanci.

Va ti tsema hi xa-mune kumbe hi tikotara.

Leswi swi vula leswaku va ti tsema ti va 4 wa swiphemu leswi ringandaka.

Yinwana ya tindlela leti hi leji. Kambisa 3 wa tindlela tinwana to endla leswi.

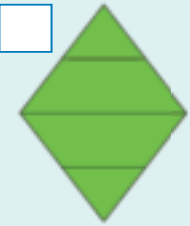
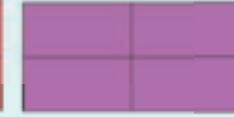
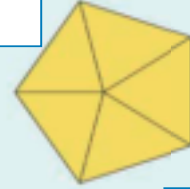
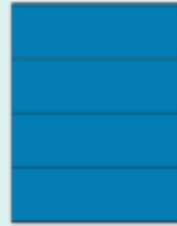
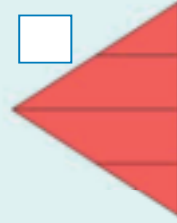
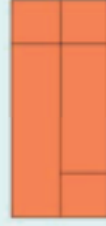


Ku avanyisa eka tikotara

Kambisa!
Ringanisa!
Lulanisa!

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

Gwajula (✓) swifaniso leswi kambisaka tikotara.



Teacher: _____
Sign: _____
Date: _____

Swiphiqo swa swiphemu

Kotara ya 4



Bula na vanghana va wena hi swiphemu.



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

a. Mudzaberi wa netibolo u njika mutlangi unwana na unwana hafu ya lamula. Ku na 14 wa vatlangi.

Xana u fanele ku kuma malamula mangani? _____

Xivutiso hi xihi? _____

Xana tinomboro kumbe swiphemu eka xiphiqo hi swihi? _____

Rito ra nkoka hi rih? _____

Dirowa xifaniso.

Nhlamulo hi yihi? _____

Rito ra nkoka i rito leri nga ta ndzi pfuna ku hlamula matirhele lama faneleke.



Skur:

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

Xana manana u fanele ku kuma maapula mangani? _____

Hi tihi tinomboro kumbe swiphemu swa xiphiqo lexi? _____

Rito ra nkoka hi rih? _____

Dirowa xifaniso.



Nhlamulo hi yihi? _____

c. Ephatini ya xikalo va xavisile makhekhe lama a ma tsemiwele hi swiphemu swinharhu.

Va xavisile khekhe eka 24 ya vanhu.

Va xavisile makhekhe mangani? _____

Hi tihi tinomboro kumbe swiphemu eka xiphiqo lexi? _____

Rito ra nkoka hi rih? _____

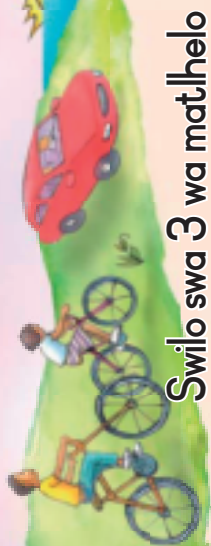
Dirowa xifaniso.



Nhlamulo hi yihi? _____



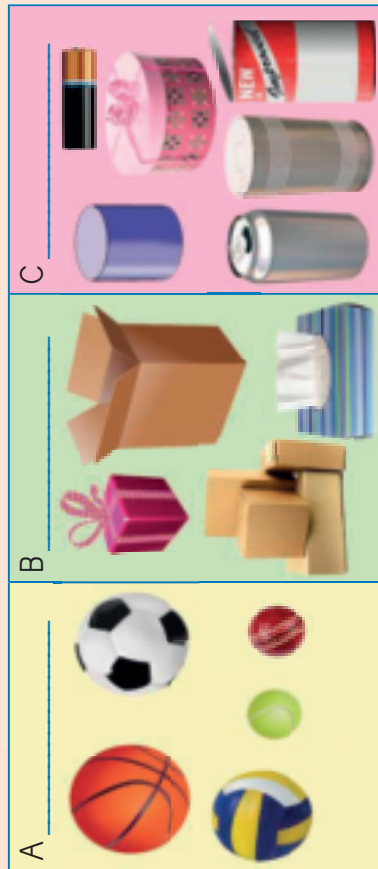
Teacher: _____
Sign: _____
Date: _____



Swilo swa 3 wa matlhelo

Languta swifaniso.

Hi wihi ntlawa lowu kombisaka tibolo, tisiindara na mabokisi?



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

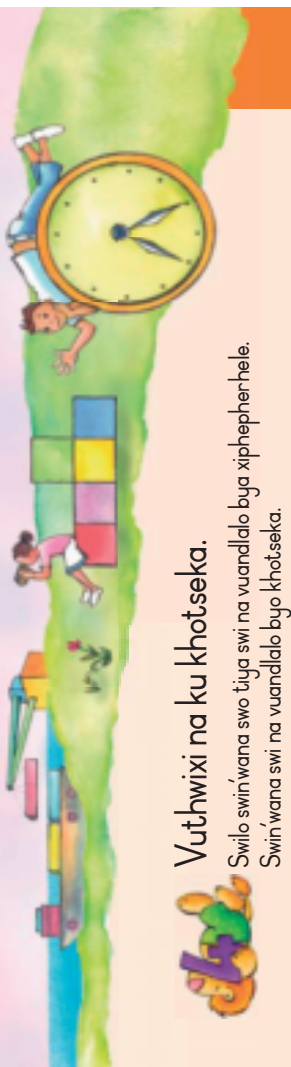
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Nkhwatihata nhlamulo leyi faneleke.

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

Skor: _____



Vuthwixi na ku khotseka.

Swilo swin'wana swo tiya swi na vuandlalo bya xiphepherhele.
Swin'wana swi na vuandlalo byo khotseka.

Silindara u na tinghohe timbirhi ta xiphepherhele na nghohe yin'we ya njhikwa.	Khoni u na nghohe yin'we ya xiphepherhele na nghohe yin'we ya njhikwa.	Xirhendzevutana xi na ku khotseka ematlhelo hinkwawo.



Ku khunguluka

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

Eka 3 wa swilo leswi, hi xihilexi:

a. nga swi kotiki ku khunguluka xi fika ekule?	
b. nga khungulukaka ntšena hi ntšila wo thwixama?	
c. nga khungulukelaka eka tlhelo rin'wana na rin'wana?	

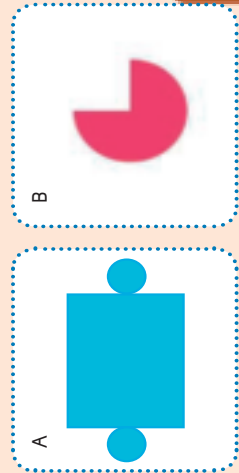


Nete i yini?

Xivumbeko xa xiphepherhele lexi petsekaka ku kota ku endla xivumbeko xo tiya xi vitaniwa nete.

Tsala letere na nete leyi nga petsekaka ku endla khoni.

Tsala letere na nete leyi nga petsekaka ku endla silindara.



Teacher: _____
Sgn: _____
Date: _____

Kotara ya 7

Vula mavito ya swiphemu.

Tsala xiphemu xa swifaniso leswi nga laha hansi.

	a. I xiphemu muni lexi nga xo tshwuka? _____
	b. I xiphemu muni lexi nga xa rihlaza? _____
	c. I xiphemu muni lexi nga xa wasi? _____
	d. I xiphemu muni lexi nga xa xitshopana? _____

Hlamula swivutiso.

- a. Sizwe u na xiphemu swa chokoletu swa mune. U njika munghana wa yena xinwe. Xana i xiphemu muni xa chokoletu lexi a saleke na xona? _____
- b. Yasmih u na mlamula mambirhi. U avelana na Ann. Xana u sale na xiphemu muni? _____
- c. Maria u xava 5 wa switina swa chokoletu. U tivekela I xitina, u njika Mahomed 2 wa switina a tlhela a njika buti wa yena 2 wa swona. Xana Maria u tivekele xiphemu muni? _____

Kambisa!
Ringanisa!
Lulamisa!

Khumbi ra swiphemu.

Rixaxa rinwana na rinwana ri avanyisiwe eka swiphemu leswi ringandka. Rixaxa ra le hansi ri avanyisiwe eka xaxhumembirhi ($\frac{1}{2}$). Lebula tinxaxa letinwana hi xiphemu levi faneleke.

Tihisa rhula ya wena kumbe makumu yo thwixama ya phepha ku kuma leswaku hi swihi swiphemu leswi ninaandaka, no ku pfuna ku hlamula swivutiso leswi.

Ku suka eka khumbi ra swiphemu, kuma tindlela hinkwato to endla:

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



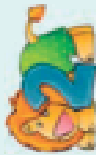
Ku endla mitlawa na ku avela kunwana



Mikhakhuleto ya xihatla.

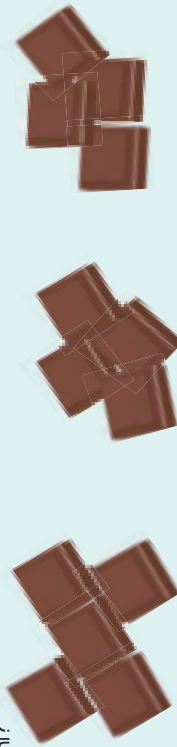
Lava mihlanganiso.

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



Avani leswi saleke.

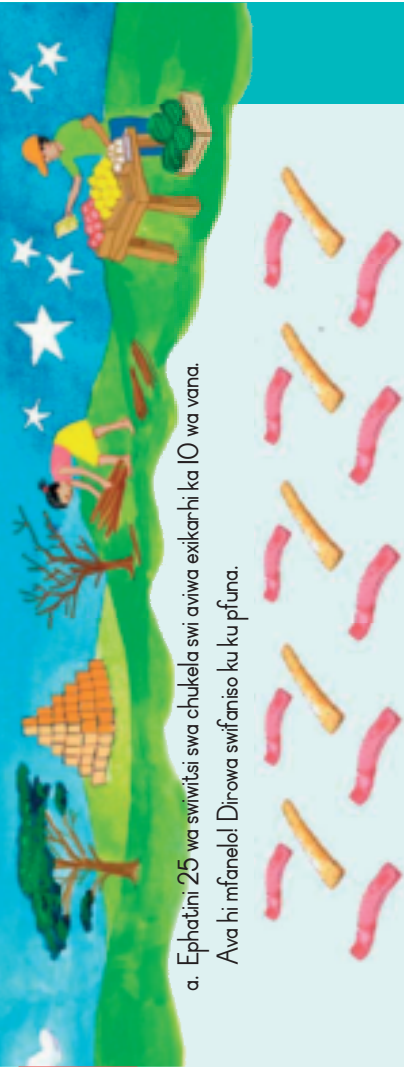
Jabu na Lebo va lava ku avelana 13 wa swiphemu swa chokoleti. Xana uniwe u ta kuma swiphemu swingani?



Va nga kota ku avelana ntšena 12 wa swikwere swa xiheri. Uhiwana na uniwana u kuma swiphemu swa ntsevu. Xiphemu lexi nga sala xi phemiwa hi hafu, kutani uniwana na uniwana u na $\frac{1}{2}$ ya swiphemu.



Siku



a. Ephatini 25 wa swiwiṣi swa chukela swi aviwa exikarhi ka 10 wa vana. Ava hi mfanelo! Dirowa swifaniso ku ku pfuna.



Uhiwana na uniwana u kuma _____ wa swiwiṣi.

b. Ava 37 wa swiwiṣi exikarhi ka 4 wa vana.

Uhiwana na uniwana u kuma _____ wa swiwiṣi.

c. Ava 48 wa swiwiṣi exikarhi ka 5 wa vana.

Uhiwana na uniwana u kuma _____ wa swiwiṣi.

d. Ava 73 wa swiwiṣi exikarhi ka 10 wa vana.

Uhiwana na uniwana u kuma _____ wa swiwiṣi.





Swiphemu swa tanigiramu

Tanigiramu i xiphazamisano xa khale xa machajuna lexi endliwaka hi 7 ya swivumbeko swa xiphephehele, leswi vitaniwaka titani, leswi hlanganisiwaka hinkwaswo ku vumba swivumbeko swo hambana.

Swiphemu eka tanigiramu.

	Languta xiphazamisano xa tanigiramu. Yin'wana na yin'wana ya tinhlalanharhu timbirhi letikulu i xiphemu muni xa xiheri xa xikwere? (Pinki exifanisweni lexi.)	_____
	Loko u petsa yin'we ya tinhlalanharhu letikulu eka swiphemu swimbirhi leswi ringanaka, xiphemu xin'wana na xin'wana xi ringana na yinhlalanharhu ya sayizi ya le xikarhi (xitshopana exifanisweni). Xana yinhlalanharhu ya le xikarhi i xiphemu muni xa xikwere xa xiheri?	_____
	Loko u petsa yinhlalanharhu ya le xikarhi eka swiphemu swimbirhi leswi ringanaka, xiphemu xin'wana na xin'wana xi ringana na tinhlalanharhu timbirhi letitsongo (rihlaza exifanisweni lexi). Xana yinhlalanharhu lejitsongo i xiphemu muni xa xikwere xa xiheri?	_____
	U nga hlanganisa tinhlalanharhu timbirhi letitsongo ku endla xikwere lexisongo. Xana xikwere lexisongo i xiphemu muni xa xikwere xa xiheri (wasi exifanisweni)?	_____
	U nga hlanganisa tinhlalanharhu timbirhi letitsongo ku endla pharalelogiramu. Xana pharalelogiramu i xiphemu muni xa xikwere xa xiheri?	_____



Ku tirhisa tanigiramu.

Tsema titanigiramu timbirhi eka Xitsemiwa xa 12 kutani u tsala vito ra xiphemu xin'wana na xin'wana xa xikwere xa xiheri. (Leswi i swiphemu swa Tanigiramu ya ntijiso). Tsala vito ra wena endzhaku ka xiphemu xin'wana na xin'wana leswaku u ta kota ku kuma swiphemu swa wena loko ntlangu wu herile.

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



Tlangu na 4-8 wa vatlangi mi tirhisa swiphemu swa n'wana swa tanigiramu.

- Vatlangi va nyiketana ku va muaveri.
- Muaveri u teka xiboho xa xiphemu lexi faneleke ku ngenisiwa hi mutlangi un'wana na un'wana eka switirhisiwa.
- Mutlangi un'wana na un'wana u vumba loko khoyini yi ta wa hi nhloko kumbe hi ncila, kutani muaveri u hoxa khoyini.
- Muaveri u ava switirhisiwa hi mfanelo exikarhi ka lava vhumbeke swona. (A nga fanela ku xavisa xiphemu xin'we kumbe swo tala ku kota ku kuma swin'wana swa nkoka lowu ringanaka).
- Leswi sadaka swi nga koteki ku avisa swi tshama enkwaneni swi yimela ku tlanga loku landzelaka.
- Vatlangi hinkwavo va kambisa loko ku ava ku endlwe hi ndlela leji faneleke.
- Loko mutlangi a kuma xihoxo, muaveri u hakela ndzoho wa 'g' wa xikwere xa xiheri eka mutlangi loji a nga rhanga a kuma xihoxo.
- Mutlangi loji a nga niki na swiphemu a nga teka swin'wana na swin'wana swa leswi saleke enkwaneni.
- Ntlangu wu ya emahlweni ku fika loko mutlangi un'wana na un'wana a vile muaveri.

Un'wana na un'wana u fanele ku hoxa kota ya sete ya tanigiramu enkwaneni.



Ndzi ta hoxa yinhlalanharhu yin'we lejikulu.



Mbirhi xa rhungu xi ringana na n'we xa-mune. Ndzi nga hoxa xikwere na pharalelogiramu.



Ku pima vundzeni

Hi ku ehleketa ka wena xana i tikhapu tingani leti nga tatata xibye lexi?

Khapu (250 ml)

A wu bohaki ku vula tilitara kumbe timitilitara.

Tirhisa xibye xo chela xa bodhlela ra pulasitiki na khapu.

xibye xo chela xa 1 litara

Endla litara.

Kuma ndlela yo endla litara hi ku tirhisa ntalo wo hambana wa swihalaki.

Xivulwa xa tinomboro: $500 \text{ ml} + 500 \text{ ml} = 1000 \text{ ml (1 l)}$



Xivulwa xa tinomboro = 1000 ml (1 l)

Xivulwa xa tinomboro = 1000 ml (1 l)

Xivulwa xa tinomboro = 1000 ml (1 l)

Xivulwa xa tinomboro = 1000 ml (1 l)

Loko hi tsala mifungo ya metriki, hi siya ndhawu lejitsongo exikarhi ka dijiti yo hatelela na mifungo. Xikombiso, hi tsala 3 l ku nga ri 3l; 299 g ku nga ri 299g; 15 km ku nga ri 15km.

Vundzeni bya khapu i 10 kasi vundzeni bya khapu leji taleke i 1.

Lepula ri tata khapu ku fika eka xikhandlu xo sungula.

I yini vundzeni bya khapu yinwana na yinwana leji taleke?



Hi pima ntalo lowutsongo wa swihalaki hi timitilitara (ml).

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

Hi pima ntalo lowukulu hi tilitara (l).

Ku na gidi rin'we ra timitilitara eka litara.

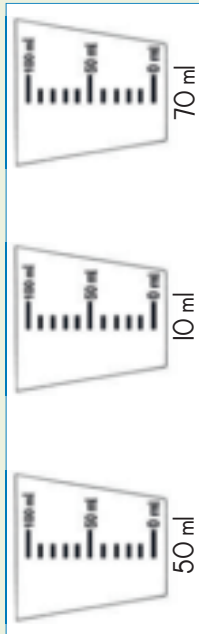
Swihalaki swo tanihi kwihi?

Kuna ti-ml ta swihalaki tingani eka jeke yinwana na yinwana?



Swihalaki swo tanihi kwihi?

Swahata tikhapu ta mirhi ku kombisa ntalo eka yinwana na yinwana.



Pima kutani u chela

Entlangwini

Hi nkarhi wa ku wisa mutlangi un'wana na un'wana u nwa $\frac{1}{4}$ ya litara ya juzi.

a. I vatlangi vangani lava nga avelandaka?

I litara 4 wa tilitara $2\frac{1}{2}$ wa tilitara

b. Xana ku laveka juzi yo tanihi kwihi eka:

8 wa vatlangi 9 wa vatlangi 12 wa vatlangi

Tilitara na mililitara (ml)

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

125 ml = ya litara 50 ml = ya litara

Endla hafu ya litara

Fungha (✓) 3 wa mitsengo leji hlanganaka yi endla hafu ya litara.

120 ml	140 ml	160 ml	28 ml	240 ml

Masi ya ku lulamerile!

Ava 4 wa tilitara ta masi exikarhi ka:

- a. 8 wa vana N'wana un'wana na un'wana u kuma wa tilitara
- b. 16 wa vana N'wana un'wana na un'wana u kuma wa tilitara
- c. 12 wa vana N'wana un'wana na un'wana u kuma wa tilitara



Siku:

Bara ya juzi ya Bongji

Eka l jeke Bongji u tirhisa kotara yin'we ($\frac{1}{4}$) ya khapu ya juzi na 2 wa tikhapu ta mati.

Kuma leswaku Bongji u tirhisa juzi na mati swo tanihi kwihi ku endla 5 wa tijeke ta juzi.

Tijeke	1	2	3	4	5
Tikhapu ta juzi	Kotara yin'we ya mati ($\frac{1}{4}$)				
Tikhapu ta mati	2				

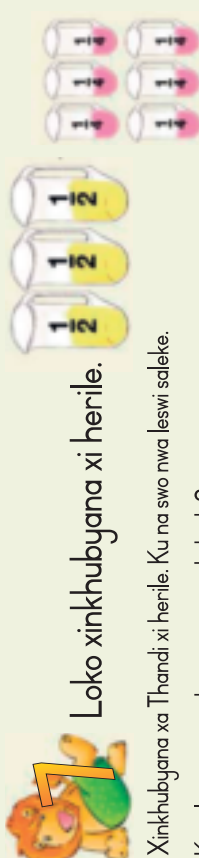
Endla litara

50 ml	100 ml	200 ml	250 ml	500 ml

I swibye swingani swa xin'wana na xin'wana lexi lavekaka ku endla litara?

- a. $\times 100$ ml b. $\times 200$ ml c. $\times 250$ ml
- e. $\times 500$ ml f. $\times 50$ ml

Loko xinkhubyana xi herile.



Xinkhubyana xa Thandi xi herile. Ku na swo nwa leswi saleke.

Ku sale juzi ya xitshopana yo tanihi kwihi?

Ku sale juzi ya xivunguvungu yo tanihi kwihi?

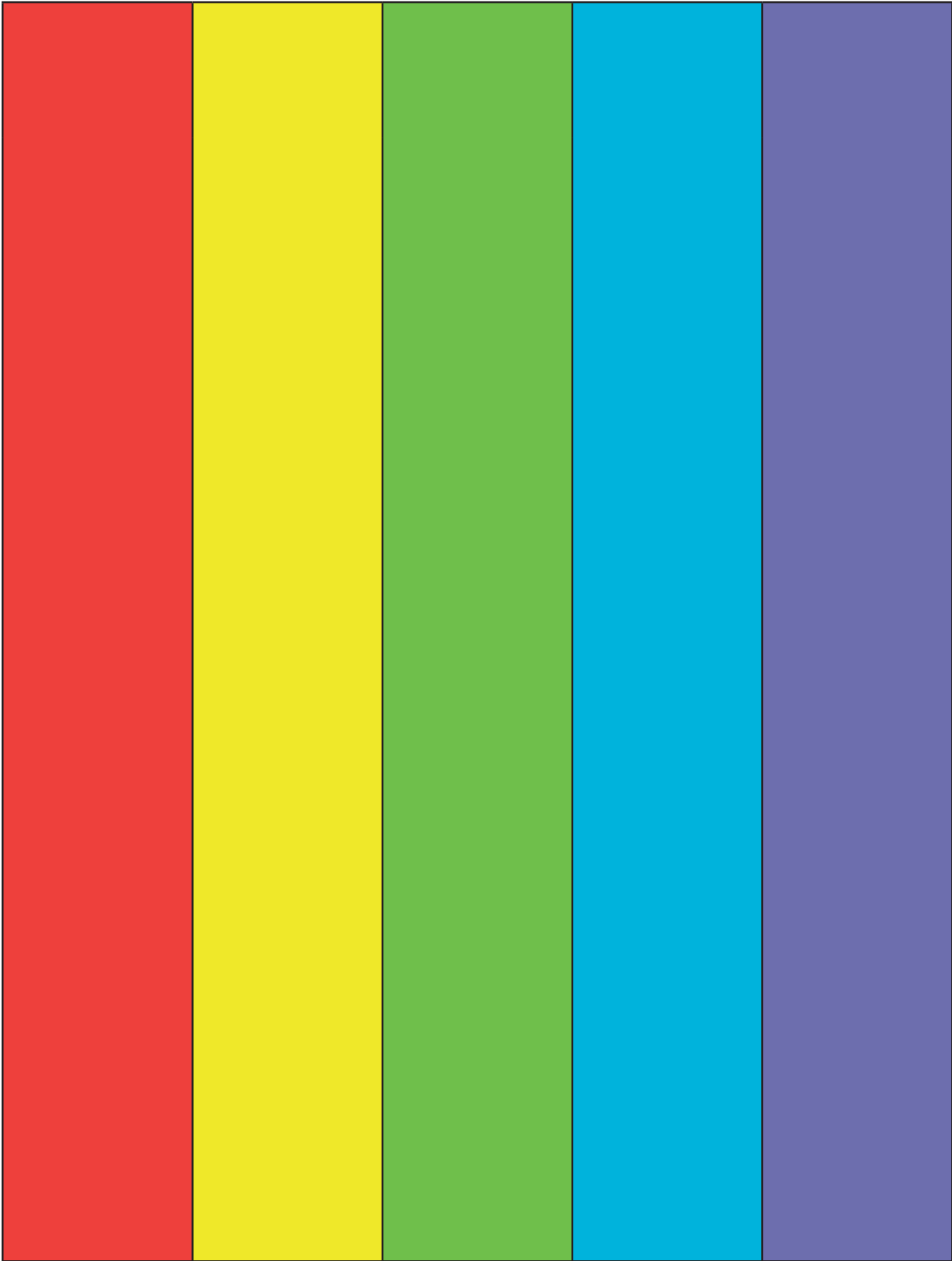
Thandi u hlanganisa tijuji letimbirhi.

Xana a nga tata tijeke tingani?

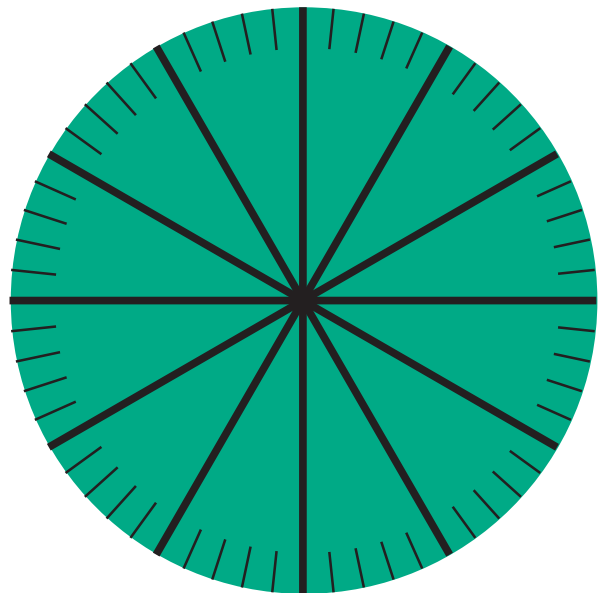
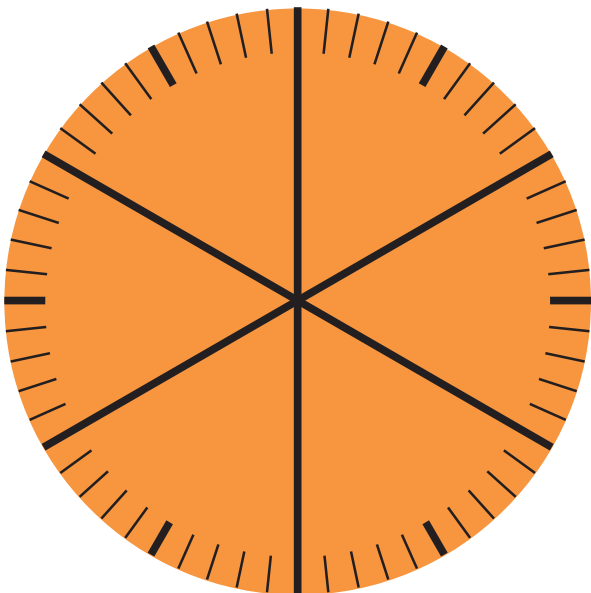
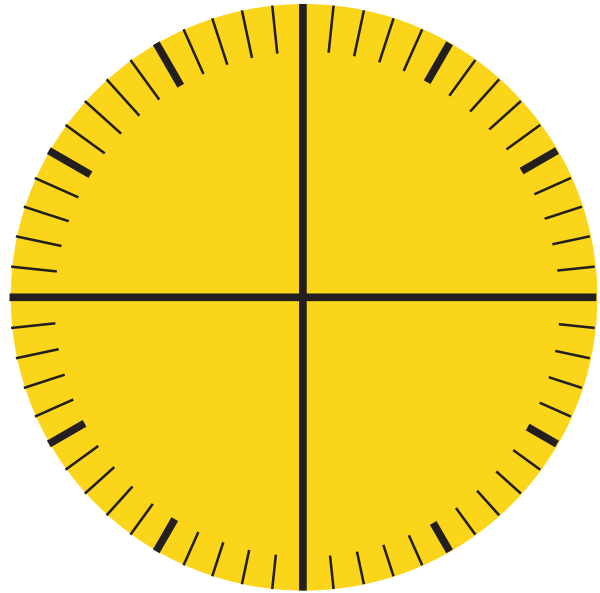
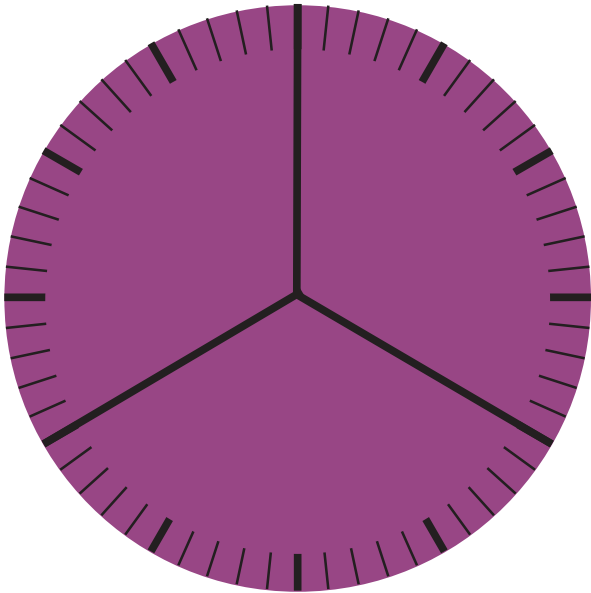
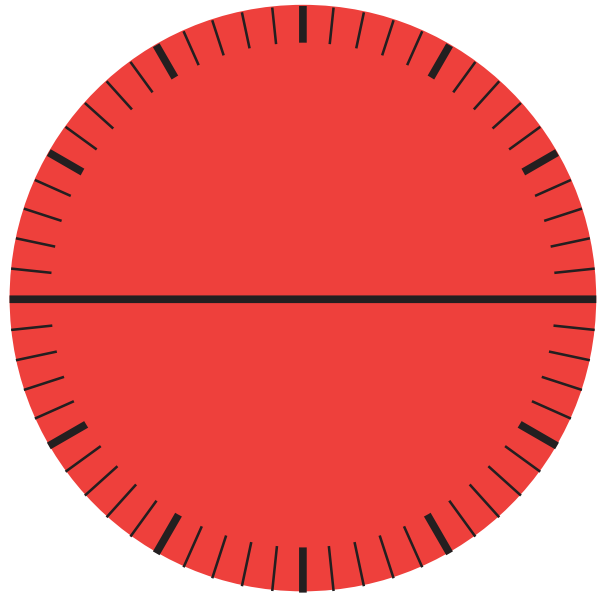
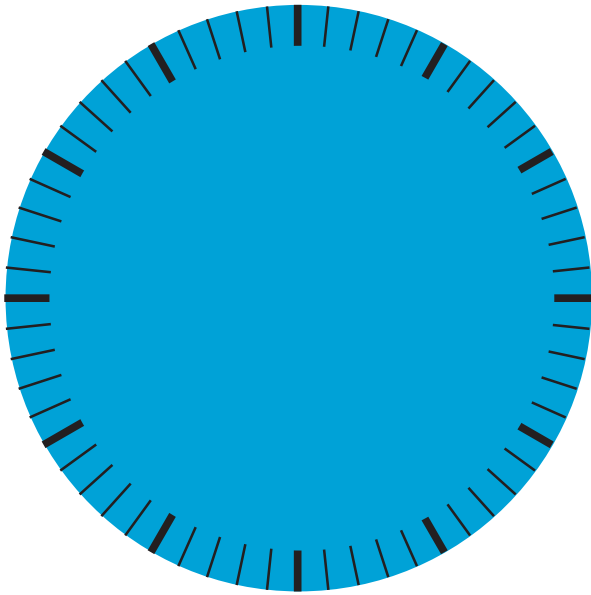
Kambela!
Ranganisa!
Lulamisa!

Teacher:
Sign:
Date:

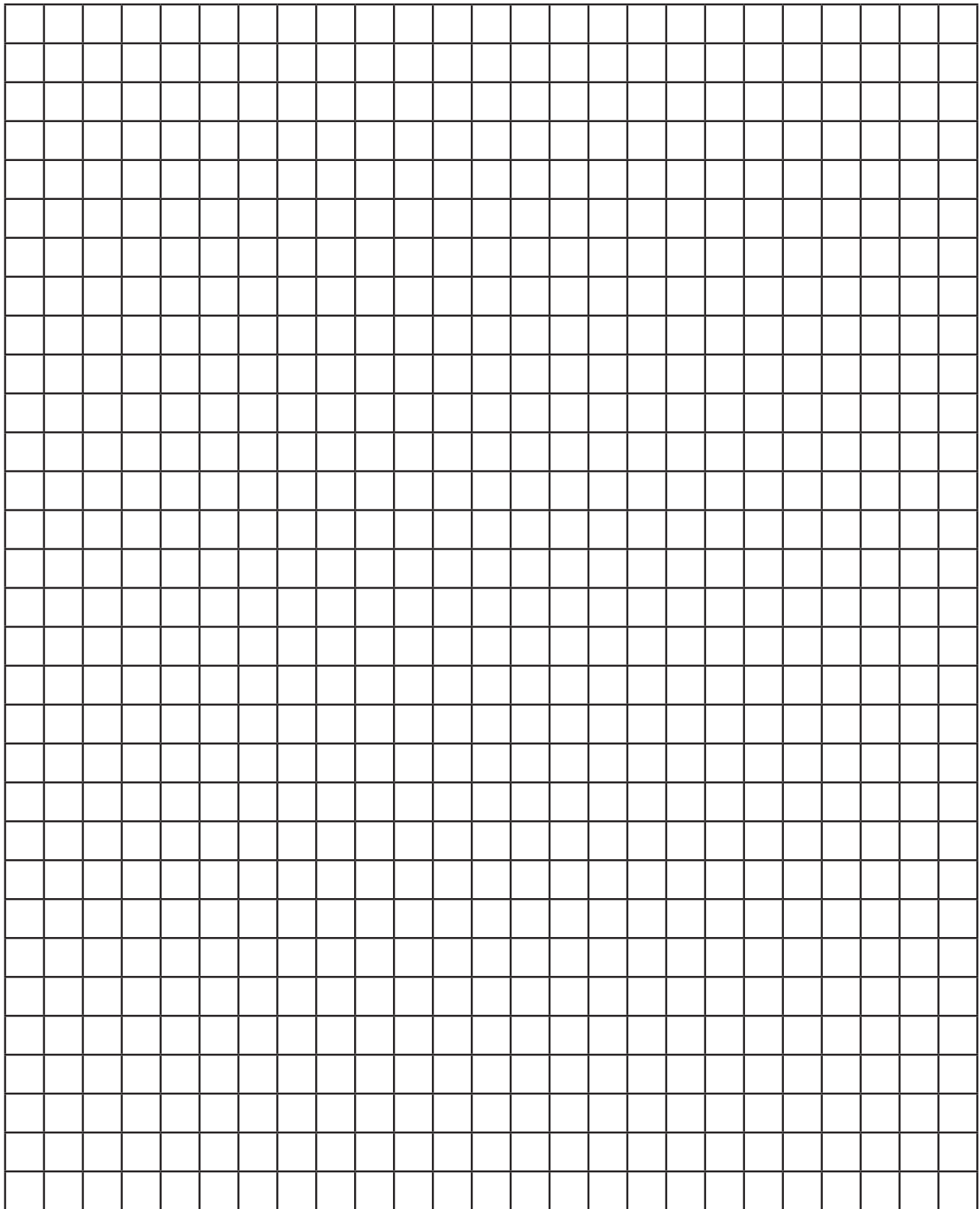
Xitsemiwa xa 5



Xitsemiwa xa 6



Xitsemiwa xa 7



Xitsemiwa xa 8

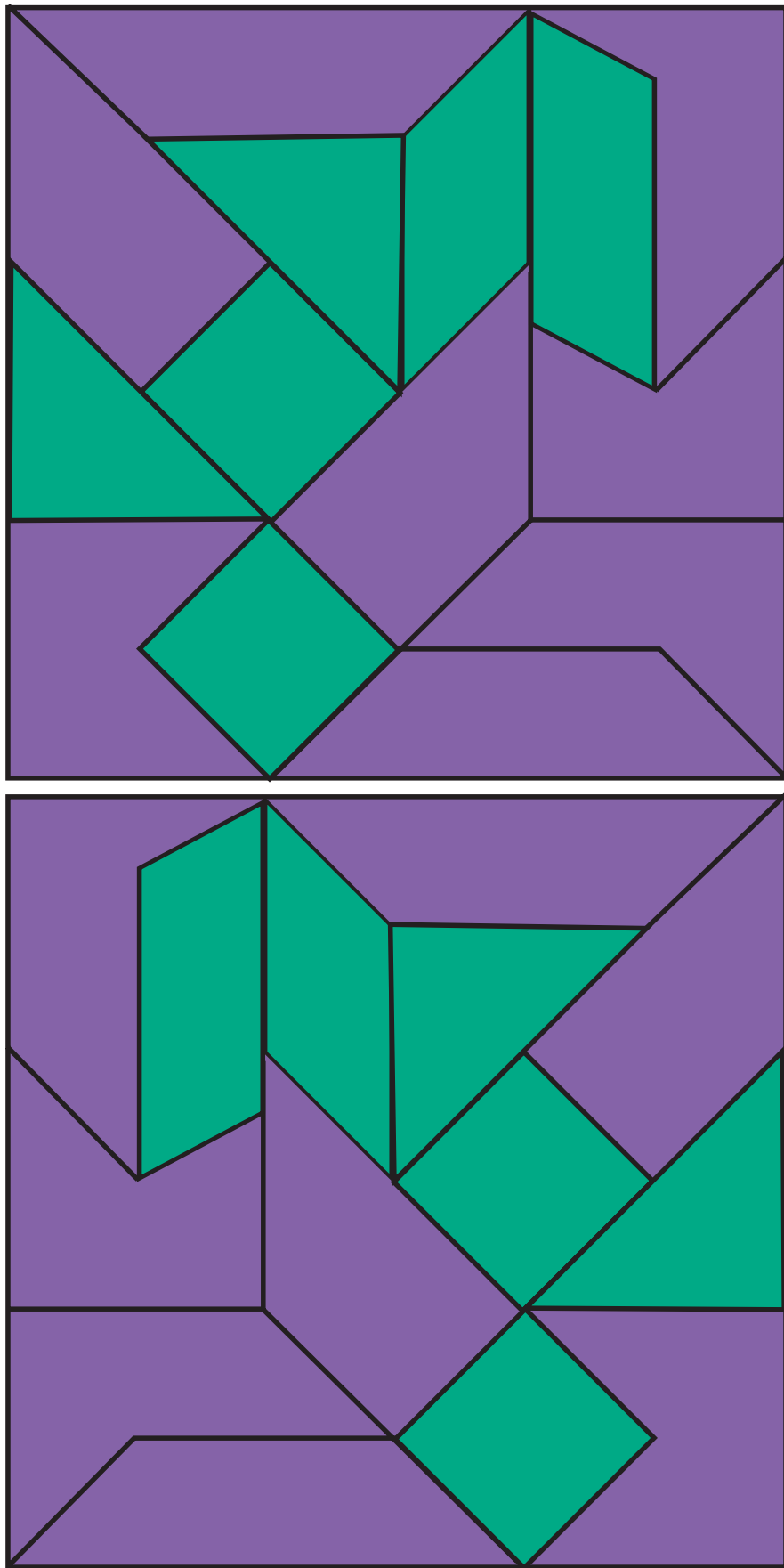
Ic	
IOc	
RI	
RIO	
RIOO	

Xitsemiwa xa 9

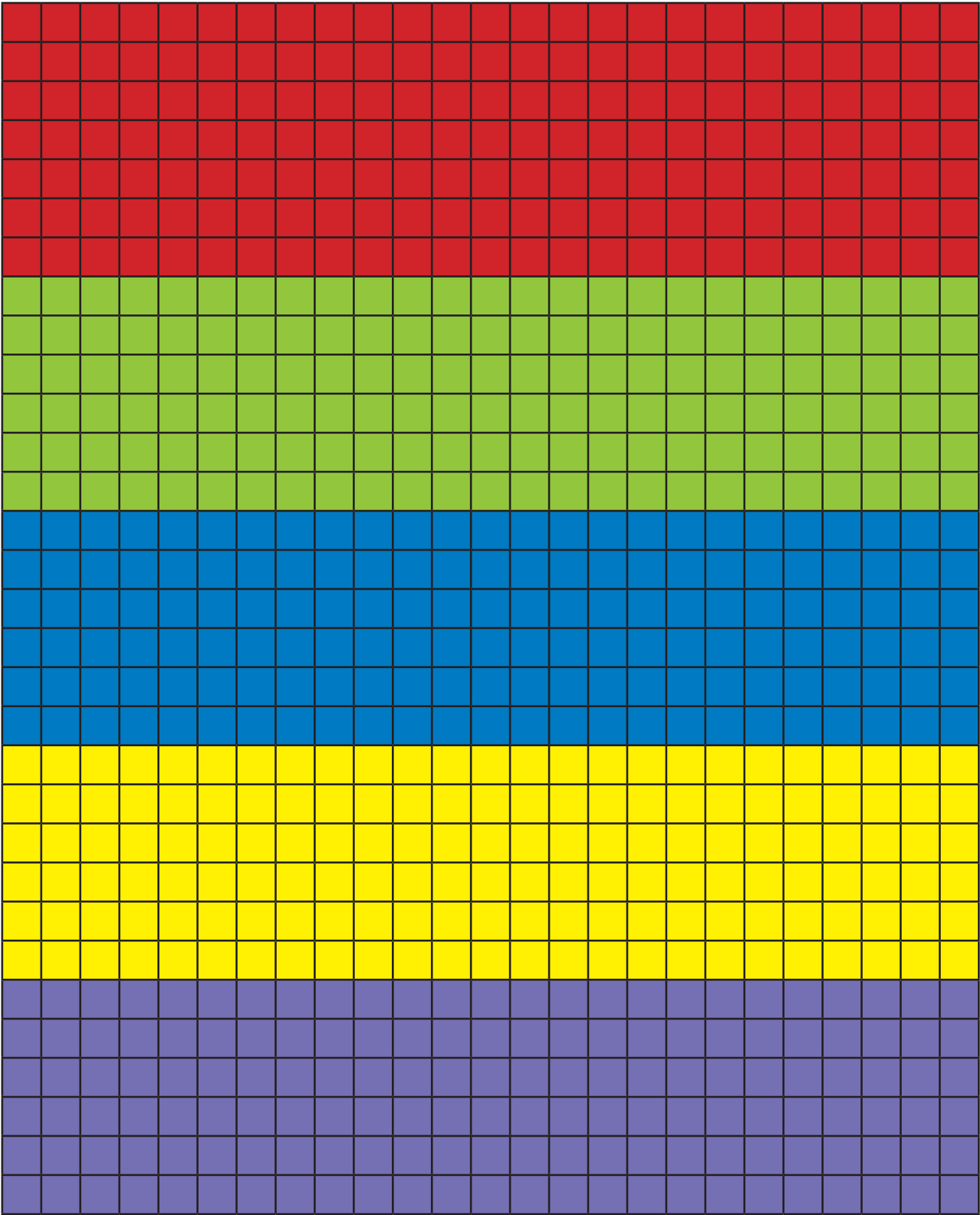
RIOO	RIOO	RIOO	RIOO
RIOO	RIOO	RIOO	RIOO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO

RI	RI	RI	RI	RI	RI	RI	RI
RI	RI	RI	RI	RI	RI	RI	RI
IO _c	IO _c	IO _c	IO _c	IO _c	IO _c	IO _c	IO _c
IO _c	IO _c	IO _c	IO _c	IO _c	IO _c	IO _c	IO _c
lc	lc	lc	lc	lc	lc	lc	lc
lc	lc	lc	lc	lc	lc	lc	lc

Xitsemiwa xa IO



Cut-out II



Cut-out I2

