

U talukanya Mulayotewa (Ndayotewa) wa Riphabuḽiki ya Afrika Tshipembe (1996)

Milayo ya nḥesa ya shango i wanala kha Mulayotewa (Ndayotewa) wa Riphabuḽiki ya Afrika Tshipembe (1996). Milayo iyi i na maanḁa u fhira na muphuresidennde, maanḁa ayo a fhira a dzikhothe na a muvhuso woḥe.

Ndi milayo ine ya laya vhatu vha ḽino shango uri vha tea u farana nga nḁilaḁe. Mulayotewa wa shango wo itelwa u tsireledza roḥe ri no khou tshila zwino na vhana vhashu vhane vha kha ḁi ḁo ḁa.

Talukanyani hune ra bva hone.

Ri songo dovha vhukhaki ha mulovha.

Mulayotewa washu u ri thusa uri ri elekanye nga vhumatshelo ha khwiḁe ha roḥe khathihi na u vhu fhaḁa.

Riḁe, vhatu vha Afrika Tshipembe;

Ri dziela nḥa u shaea ha vhumukanyi kha tshifhinga tsho fhelaho;

Ri ḥonifha havho vhe vha tambulela vhumukanyi na mbofholowo kha shango ḽashu;

Ri ḥonifha havho vhe vha shuma vha tshi itela u fhaḁa na u bvedzisa shango ḽashu; na

U tenda uri Afrika Tshipembe ndi ḽa vhoḥe vhane vha dzula khaḽo, vho vhohekanywaho vha vha huthihi naho vha sa fani.

Zwenezwo, nga kha vhaimeleli vho khethiwaho zavhuḁi, ri khou ḥanganedza ino Ndayotewa sa wone Mulayo Muhulusa wa Riphabuḽiki uri u—

Fhelise khethululo ya tshifhinga tsho fhelaho na u thoma tshitshavha tshine tsho ḁisendeka kha ndeme dza demokirasi, vhumukanyi ha matshiliso na pfanelo dza vhatu;

Fhaḁe mitheo kha demokirasi na tshitshavha tshi re khagala hune muvhuso wo ḁisendeka kha lufuno lwa vhatu nahone vhadzulapo vho tsireledzwa nga mulayo nga nḁila I lingano;

Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhoḥe na u vhoḥolola vhuḁoni ha muthu muḥwe na muḥwe; na

Fhaḁa mbumbano na demokirasi zwa Afrika Tshipembe uri ḽi kone u vha fhethu ho teaho sa muvhuso wo ḁiimisaho kha muḁa wa tshaka.

Shumisani pfanelo dzaḁu sa mudzulapo wa Afrika Tshipembe ni dovhe ni vhe na vhuḁifhindleli ha u tsireledza pfanelo dza vhaḥwe.

Divhani Mulayotibe Wa Pfanelo na Mulayotibe Wa Vhuḁifhindleli.

Mudzimu tsireledza vhatu vhashu.

Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.

God seën Suid-Afrika. God bless South Africa.

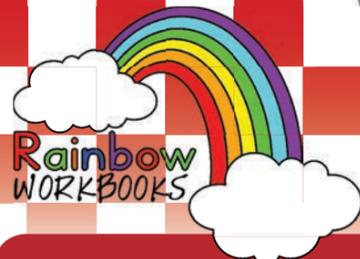
Hosi katekisa Afrika.



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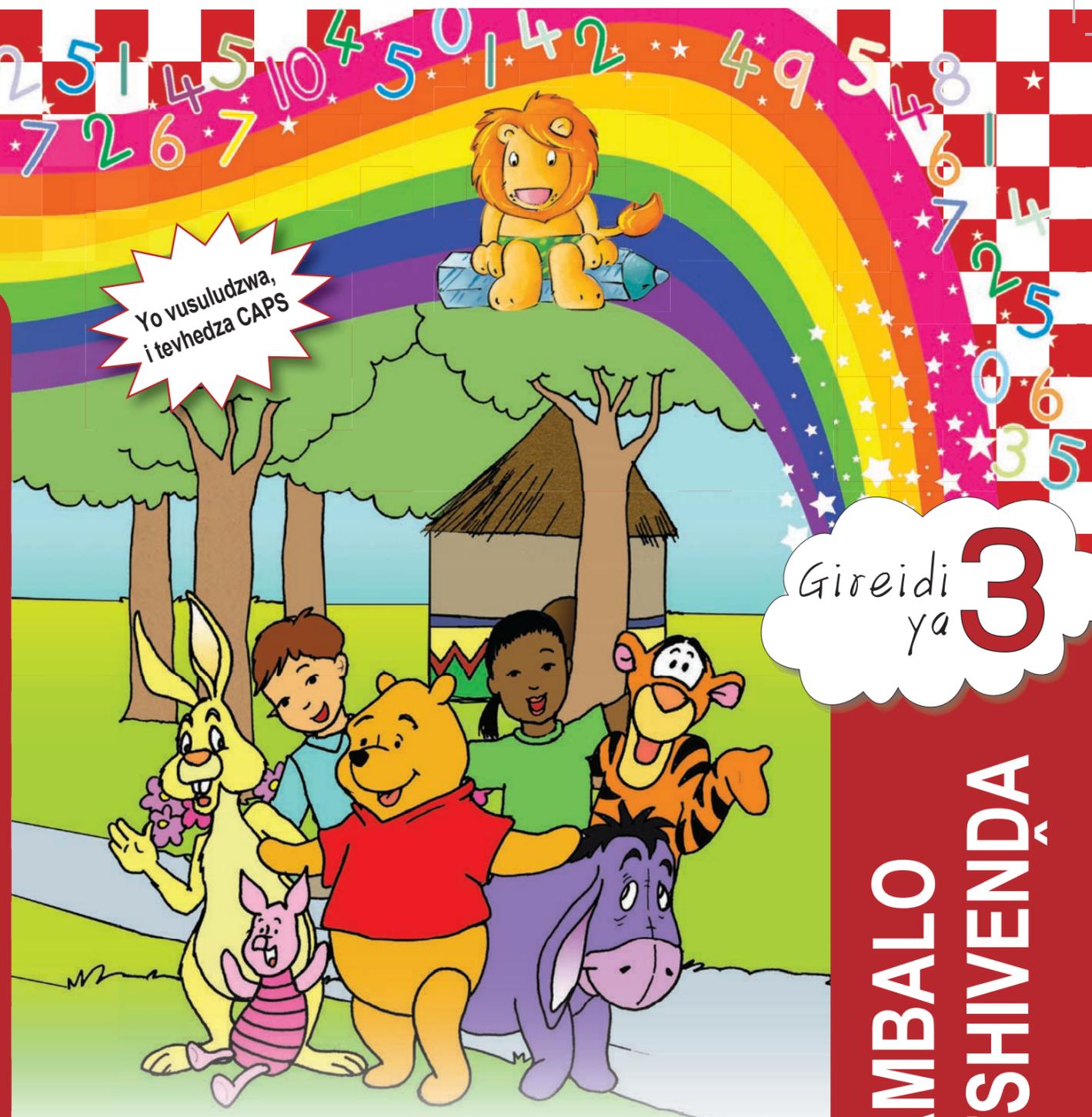
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**DIVHAMBALO
NGA TSHIVENDĀ**

*Bugu ya 2
Themo 3 & 4*

Zwi re ngomu



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Vho Angie Motshekga
Minista wa Muhasho wa
Pfunzo ya Muteo



Vho Enver Surty
Muthusaminista wa
Pfunzo ya Muteo

Bugu idzi dzo iwalelwa vhana vha Afrika Tshipembe, mushumo wa hone wo rangiwa phanda nga Minista wa Pfunzo ya Muteo, Vho Angie Motshekga na Muthusaminista wa Pfunzo ya Muteo, Vho Enver Surty.

Bugu dza u shumela dza Rainbow ndi tshipiqa tsha zwe Muhasho wa Pfunzo ya Muteo wa ita zwa u khwinisa vhukoni ha vhagudi vha Afrika Tshipembe vha gireidi dza rathi dza u ranga. Sa tshinwe tsha zwithu zwihulwane zwa Pulanetshumisi ya Muvhuso, thandela iyi yo konadzea nge ya lambedzwa lu sa vhudziswi nga Muhasho wa Gwama la Lushaka.

Hezwi zwo ita uri Muhasho u kone u bveledza bugu idzi, dzi kha nyambo dzothe dza tshiofisi, dzi tshi waniwa mahala.

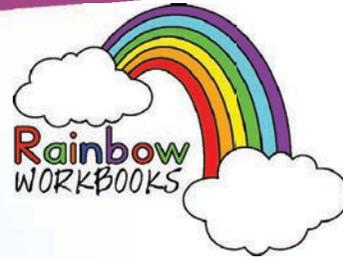
Ri na fulufhelo lauri bugu idzi dzi do thusa vhadededzi (vhagudisi) mushumoni wavho wa u funza wa kuvha liinwe na liinwe khathihhi na u vha na vhuhanzi uri vha khunyeledze kharikhu lamu yotthe. Ro ita nga vhuronwane uri ri sumbedze ndila vhadededzi kha nyito nge ra shumisa aikhoni dzi no sumbedza uri mugudi u tea u ita zwifhio.

Ri na fulufhelo li no bva li mbiluni uri vhana vha do dipihina nga u shumisa bugu idzi zwenezwi vha tshi khou aluwa na u guda, khathihhi na uri na vhonevho, sa mudededzi, vha do dipihina na vhana avha.

Ri ri kha vhone na vhagudi vhavho, ngavhe zwi tshi vha nakela musi vha tshi shumisa bugu idzi. Zwi pfumbe.



Gireidi ya **3**



Heyi bugu ndi ya:



TSHIVENĎA

Bugu ya

2

65

Deithi:

Nomboro 500 u swika kha 600

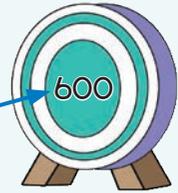
Themo ya 3



Vhalani ni n̄wale.

- a. Shumisani tshati i tevhelaho uri i ni thuse u vhalu u bva kha 500 u swika kha 600. Bulelani n̄tha nomboro musi ni tshi khou vhalu.

500



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

- b. N̄walani nomboro dzi no khou t̄ahela kha giridi i re af'ho n̄tha.

- c. N̄walani nomboro dza 10 dzi no tevhela 500.

500; _____; _____; _____; _____; _____; _____; _____; _____; _____; _____

- d. N̄walani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi2.

510; 512; _____; _____; _____; _____; _____; _____; _____; _____

- e. N̄walani nomboro dzo t̄he dzi re kha phetheni ya dzi2 u bva kha 548 u swika kha 570.

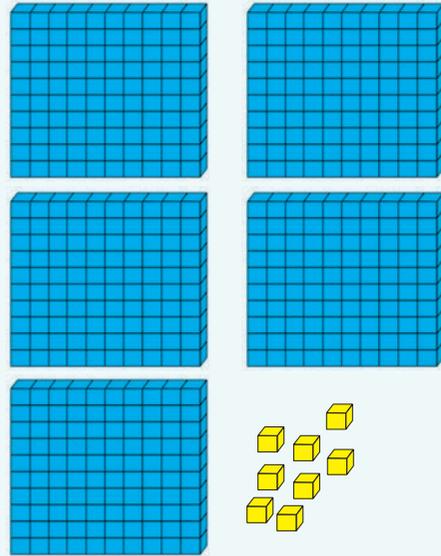
548; _____; _____; _____; _____; _____; _____; _____; _____; _____; 570

- f. N̄walani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi5.

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



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

540			543				547		549	
							597	598	599	
					597	598	599			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

520	
-----	--

○

□

△

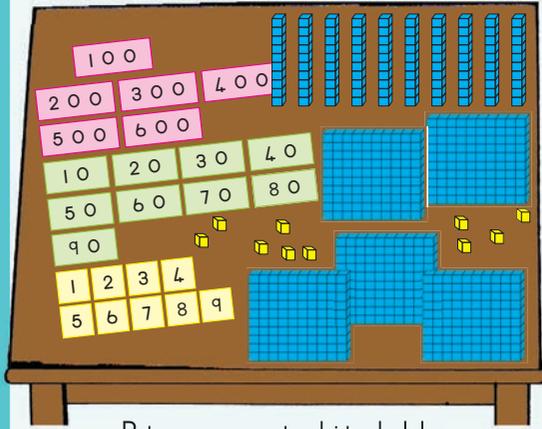
Teacher: _____
 Sign: _____
 Date: _____

66

Deithi:

Nomboro dza 500 u swika kha 600 hafhu

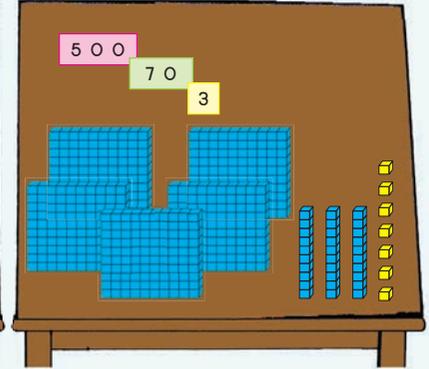
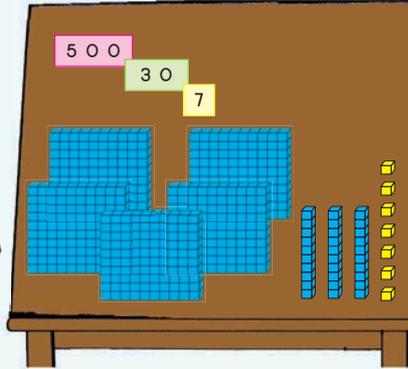
Themo ya 3



Mudededzi vha hambela Peter uri a sumbedze 537 nga garaṭa na zwibuloko.

Aakar o sumbedza hezwi. O ita zwifhio zwo khakheaho?

Peter u na garaṭa dzi tevhelaho dza vhuimo ha nomboro na zwibuloko zwa beisi ya fumi.



Nwalani fhungombalo ni tevhedze nga phindulo.

$500 + 10 + 7 = 517$	<input type="text"/>	<input type="text"/>



Nwalani fhungombalo ni tevhedze nga phindulo.

$500 + 70 + 3$	<input type="text"/>	<input type="text"/>
$=$	<input type="text"/>	<input type="text"/>



Fhedzisani mutalombalo.

550	551	552								560
-----	-----	-----	--	--	--	--	--	--	--	-----

Nwalani nomboro dzothe dzi re thukhu kha 55b. _____

Nwalani nomboro dzothe dzi re khulwane kha 55b. _____



Padukanyani nomboro yanu.

- Fhatani nomboro inwe na inwe nga magaraṭa anu.
- Nwalani velu ya didzhiti inwe na inwe.

Hu na didzhiti dza fumi.
0 1 2 3 4 5 6 7 8 9
Ri a dzi badekanya uri ri vhumbe nomboro.

495	
508	
594	
549	
602	

Tsumbo: 517

500
10
7
517
517 = 500 + 10 + 7



Nwalani madzina a mbalo.

221	
486	
369	
419	
491	



Teacher: _____
Sign: _____
Date: _____

Deithi:

67

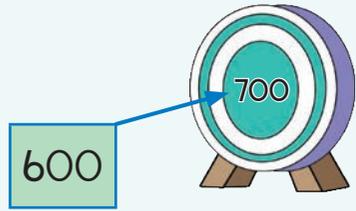
Nomboro 600 u swika kha 700

Themo ya 3



Vhalani ni riwale.

a. Vhalani ni tshi ya phanda u bva kha 600 u swika kha 700. Bulani nomboro ni tshi khou ralo u vhala.



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

b. Nwalani nomboro dzi no khou tshela kha giridi i re afho ntha.

c. Nwalani nomboro dza 10 dzi no tevhela 600.

600; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

d. Nwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi2.

622; 624; 626; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

e. Nwalani nomboro dzothe dzi re kha phetheni ya dzi2 u bva kha 611 u swika kha 633.

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

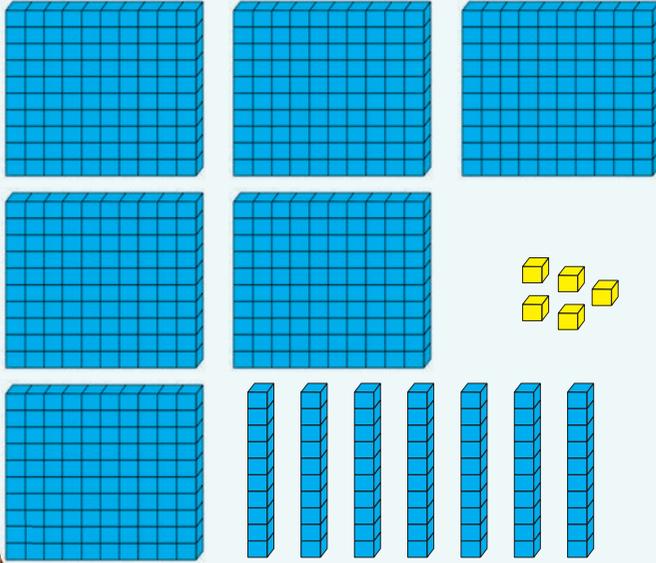
f. Nwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi5.

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





Ni kona u vhalala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

640			643				647		649	
							687	688	689	
					602	604	606			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

672, 676, 674, 671, 675		
656, 605, 650, 615, 605		



Nwalani zwi tevhelaho nga maipfi.

631	
-----	--

Teacher:

Sign:

Date:

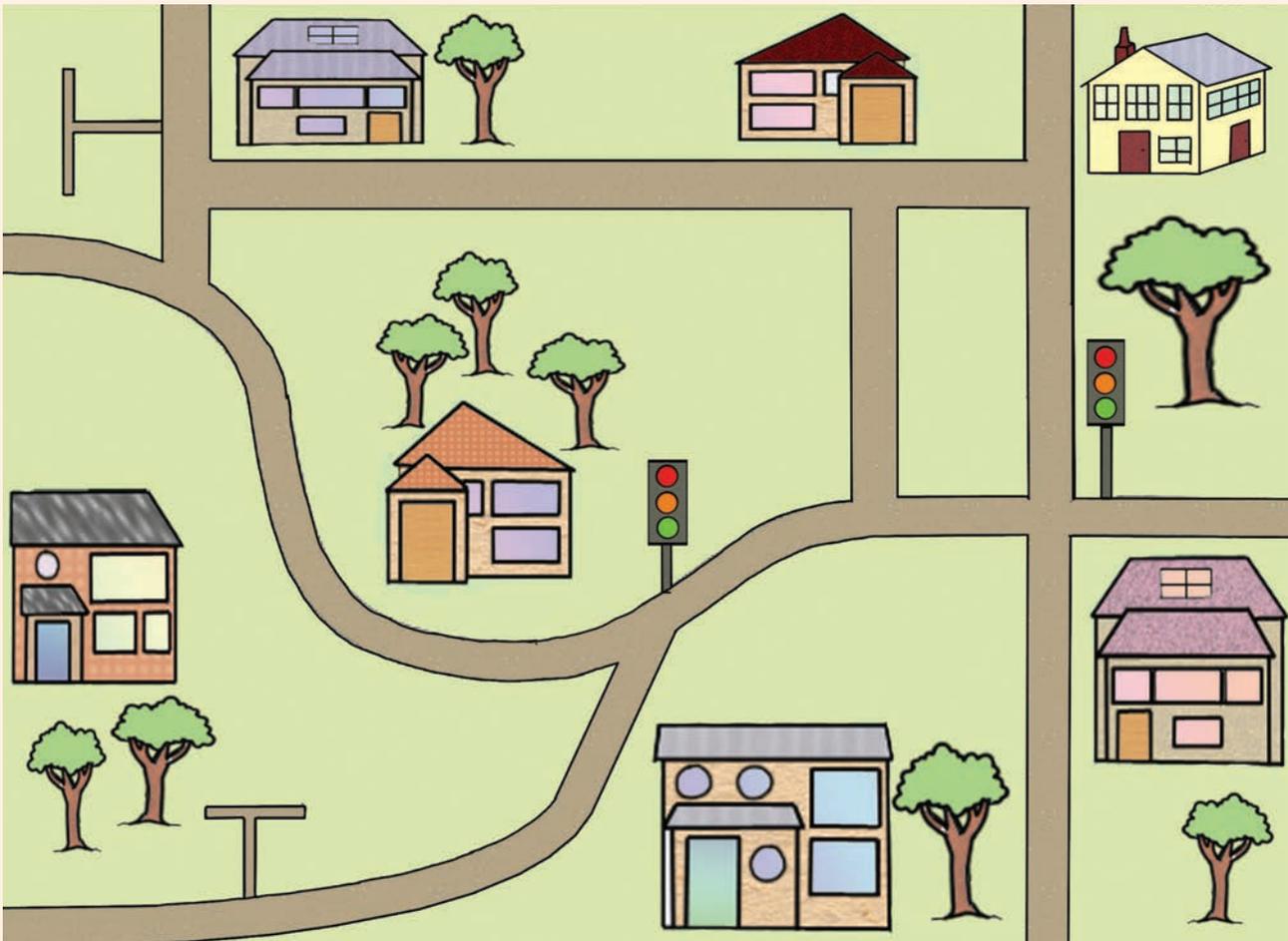


Deithi:

Mushumo wa mepe

Lavhelesani tshifanyiso.

- Ndi tsha mini?
- Ri tshi shumisa kha mini?
- Ri nga wana mini kha mepe uyu?



Olani zwi tevhelaho kha mepe:

laiburari, zwikolo, kiliniki, sibatela (vhuongelo), tshiti tshi tsha mapholisa, mavhengeleni. Ni nga kha di dzhenisa zwi nwe zwi tarata.



Shumisani mepe u re kha siatari lo
fhiraho kha u laedza khonani dzaṅu ṅdila vha tshi bva:

a. kiliniki vha tshi ya tshititshi tsha mapholisa.

b. tshikoloni vha tshi ya kiliniki.

c. tshikoloni vha tshi ya mavhengeleni.

d. mavhengeleni vha tshi ya laiburari.

e. laiburari vha tshi ya tshikoloni.

f. sibadela (vhuongeloni) vha tshi ya tshikoloni.

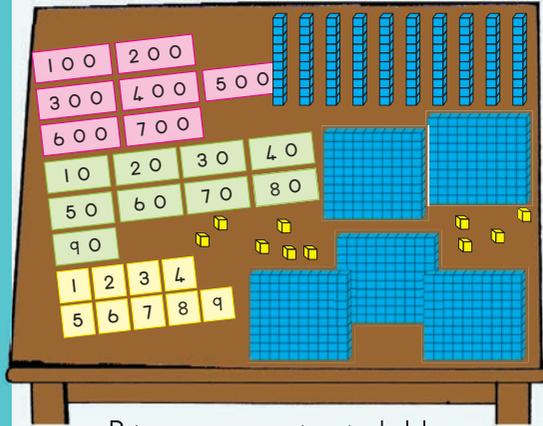


69

Deithi:

Nomboro 600 u swika kha 700 hafhu

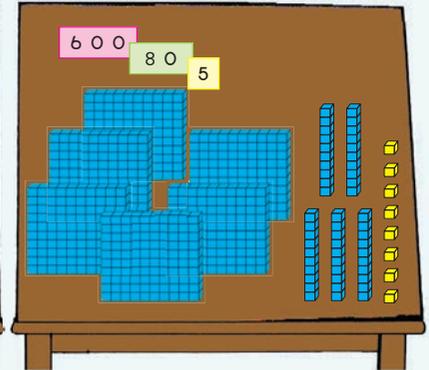
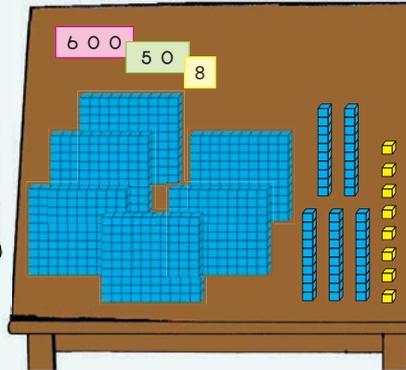
Themo ya 3



Mudededzi vha hambela Peter uri a sumbedze 658 nga magaraṭa na zwibuloko.

Aakar o sumbedza hezwi. O ita zwifhio zwo khakheaho?

Peter u na magaraṭa a tevhelaho a vhuimo ha nomboro na zwibuloko zwa beisi ya fumi.



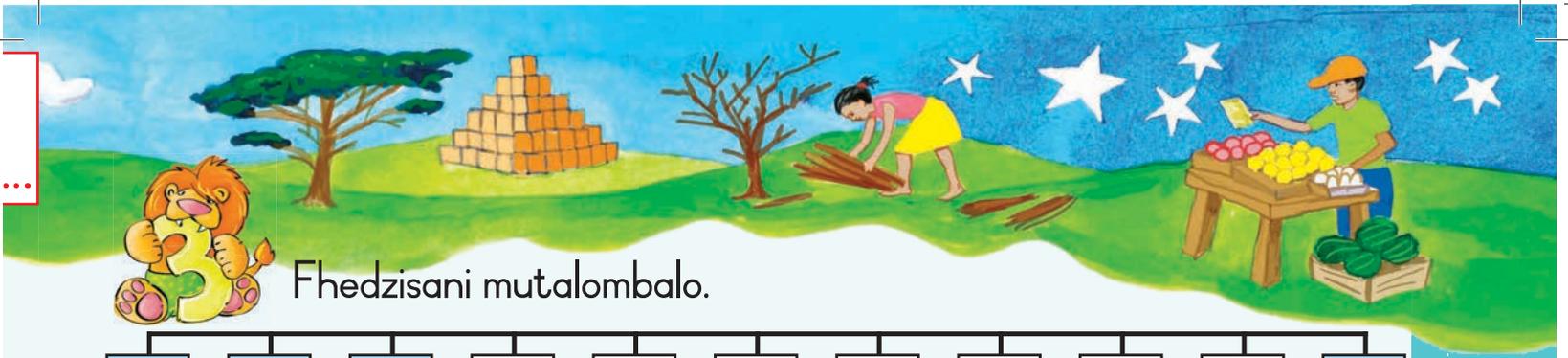
Nwalani fhungombalo ni tevhedze nga phindulo.

$600 + 30 + 7 = 637$		



Nwalani fhungombalo ni tevhedze nga phindulo.

$600 + 90 + 8$ $=$	$600 + 70$ 	$600 + 50 + 8$
-----------------------	--------------------	------------------------



Fhedzisani mutalombalo.

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

Nwalani nomboro dzotlhe dzi re tshukhu kha 675. _____

Nwalani nomboro dzotlhe dzi re khulwane kha 675. _____



Dzhenisani < kana > =

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



Padukanyani nomboro yanu.

- a. Fhatani nomboro inwe na inwe nga magarata anu.
 b. Nwalani velu ya didzhiti inwe na inwe. Zwino itani hezwi: Padukanyani nomboro yanu.

686	
690	
699	
673	
665	

Tsumbo: 632

600
30
2
632

632 = 600 + 30 + 2



Nwalani madzina a mbalo.

672	
693	
607	
697	
660	



Teacher: _____
 Sign: _____
 Date: _____

70

Deithi:

Nomboro 650 u swika kha 750

Themo ya 3



Vhalani ni n'wale.

- a. Vhalani ni tshi ya phanda u bva kha 650 u swika kha 750. Bulani nomboro ni tshi khou ralo u vhala.

650



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

- b. N'walani nomboro dzi no khou t'ahela kha giridi i re af'ho n'tha.
c. N'walani nomboro dza 10 dzi no tevhela 650.

650; _____; _____; _____; _____; _____; _____; _____; _____; _____

- d. N'walani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi2.

705; 707; 709; _____; _____; _____; _____; _____; _____; _____

- e. N'walani nomboro dzo t'he dzi re kha phetheni ya dzi3 u bva kha 719 u swika kha 749.

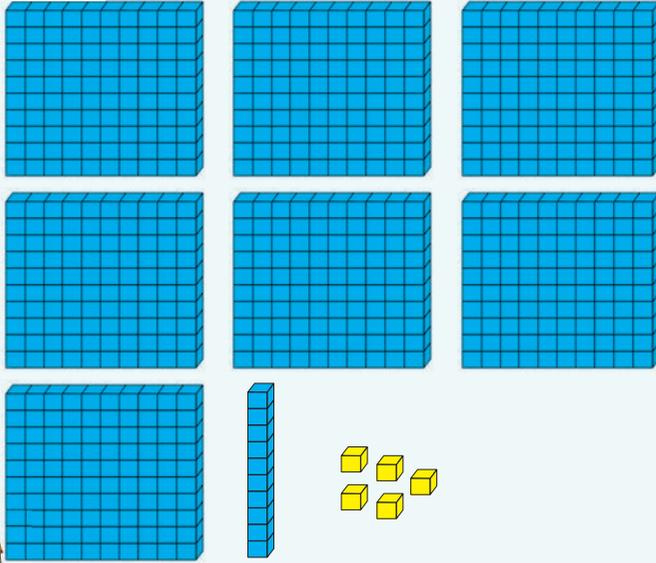
719; _____; _____; _____; _____; _____; _____; _____; _____; 749

- f. N'walani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi5.

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



Ni kona u vhalala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

700			703				707		709	
							746	747	748	
					706	711	716			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

706	
-----	--



Teacher: _____

Sign: _____

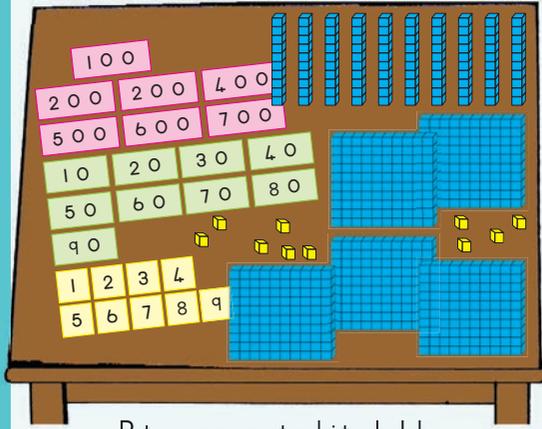
Date: _____

71

Deithi:

Nomboro 700 u swika kha 750

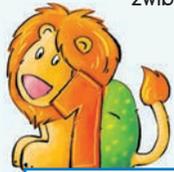
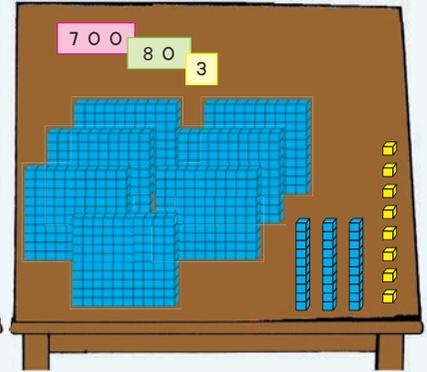
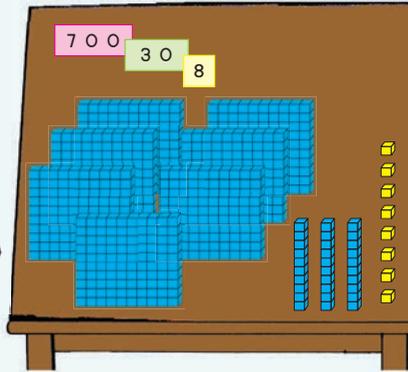
Themo ya 3



Peter u na garaṅa dzi tevhelaho dza vhuimo ha nomboro na zwibuloko zwa beisi ya fumi.

Mudededzi vha hambela Peter uri a sumbedze 738 nga magaraṅa na zwibuloko.

Ntakadzeni o sumbedza hezwi. O ita zwifhio zwo khakheaho?



Nwalani fhungombalo ni tevhedze nga phindulo.

$700 + 40 + 3 = 743$		



Nwalani fhungombalo ni tevhedze nga phindulo.

$700 + 40 + 5$ $=$	$700 + 30$ 	$700 + 9$
-----------------------	--------------------	-------------------



Fhedzisani mutalombalo.

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

Mpheni nomboro dzothe dzi re thukhu kha 704. _____

Mpheni nomboro dzothe dzi re khulwane kha 704. _____



Dzhenisani $< \text{kana} > =$

a. $750 \underline{\hspace{1cm}} 749$ b. $732 \underline{\hspace{1cm}} 723$

c. $700 + 40 + 9 \underline{\hspace{1cm}} 749$



Paḍukanyani nomboro yaṅu.

- Fhatani nomboro inwe na inwe nga magaraṭa aṅu.
- Ṇwalani velu ya didzhiti inwe na inwe. Zwino itani hezwi: Paḍukanyani nomboro aṅu.

750	
728	
703	
730	
749	

Tsumbo: 747

700
40
7
747
747 = 700 + 40 + 7



Ṇwalani madzina a mbalo.

714	
750	
742	
738	
704	



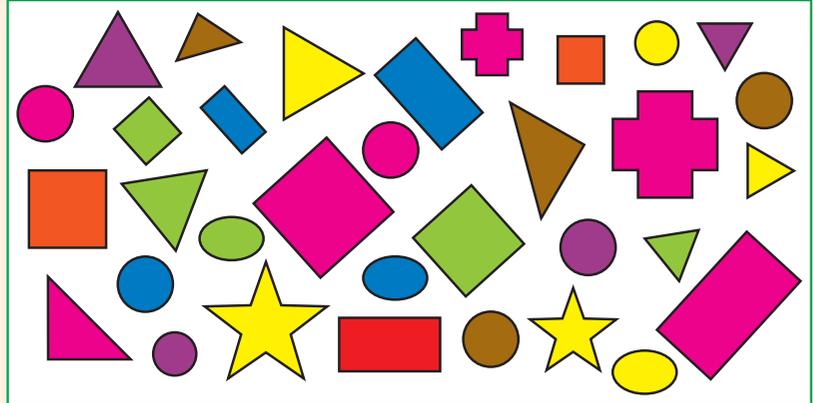
Teacher: _____
Sign: _____
Date: _____



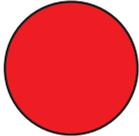
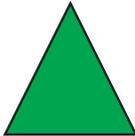
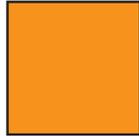
Zwivhumbeo wa 2-D

Themo ya 4

Bulani uri tshivhumbeo tshi na lurumbutswititi kana lwo kutaho naa.

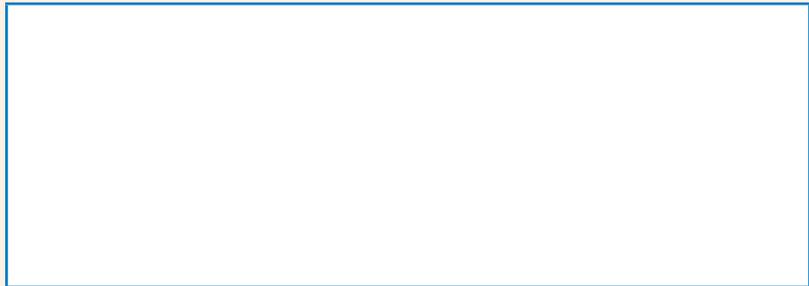


Bulani uri tshivhumbeo tshi na vhurumbuswititi kana dza zwipulumbu naa.



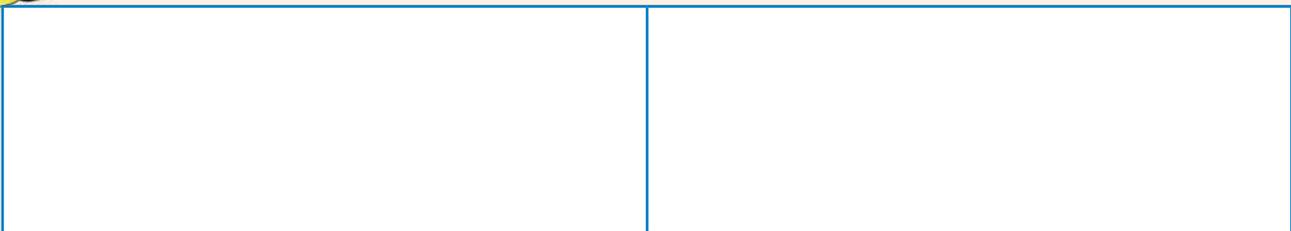
Ni nga ola zwivhumbeo zwingana zwi re na vhurumbuswititi.



Wanani zwifanyiso.

Wanani zwivhumbeo zwi re na memetswititi ni dzi nambatedze hafha.

Wanani zwivhumbeo zwi re na meme dza zwipulumbu ni zwi nambatedze hafha.





Fhedzisani zwi tevhelaho:

	Olani tshivhumbeo tshi kha zwiimo zwo f'hambananaho.
thiraiengele	
rekhithiengele	
tshikwea	



Fhedzisani thebulu:

	Bulani dzina la tshivhumbeo	Olani tshivhumbeo tsha tshi re tshituku	Olani tshivhumbeo tsha tshi re tshihulwane



Wanani zwikwea, thiraiengele, rekhithiengele na zwitendeledzi zwa saizi dzo f'hambananaho kha mimagazini kana maguranda.

Zwi nambatedzeni hafha:



Teacher: _____

Sign: _____

Date: _____

Mutanganyo na mutuso u swika kha 800

Themo ya 3



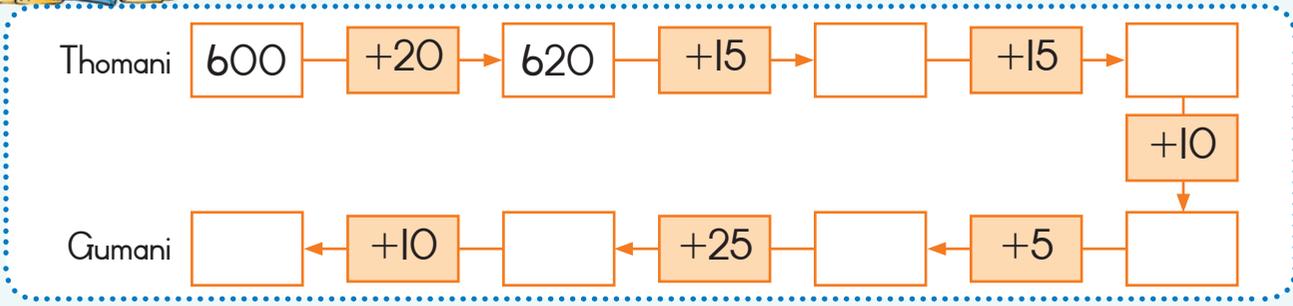
Ndi nga renga mini nga R500?

Ndi tshifhio tsha izwi zwithu tshine nda nga tshi renga nga R500?



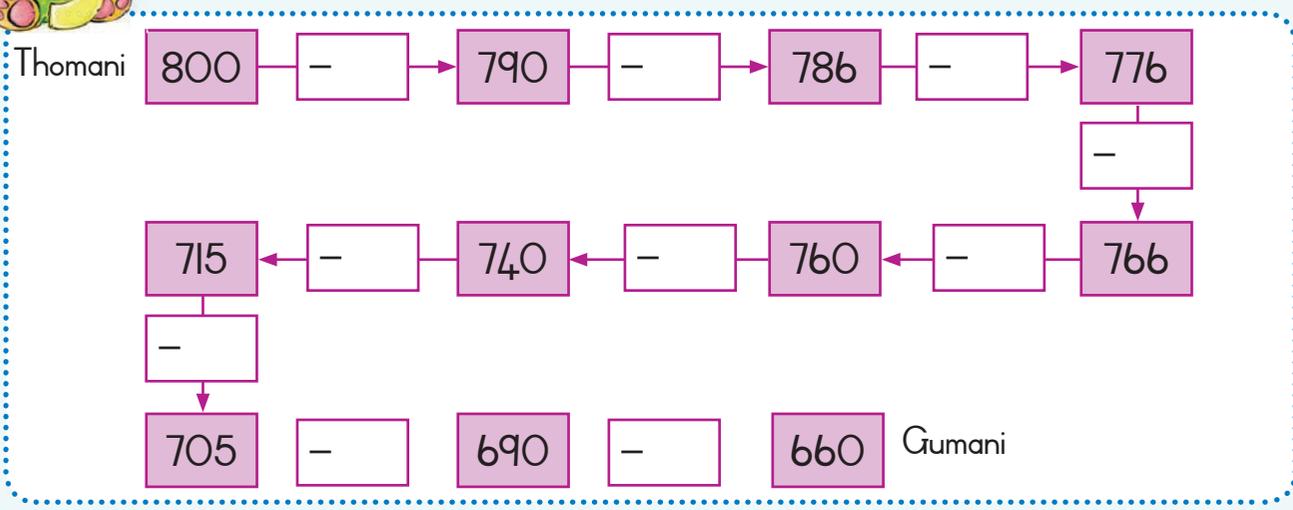
Tanganyani ni tshi ya phanda u bva kha 600.

Nwalani nomboro dzi no khou tahela.



Vhalani ni tshi humela murahu u bva kha 800.

Nwalani "tshintshi" hothe.





Tandululani zwi tevhelaho:

$$725 + 53 =$$

$$664 + 87 =$$

$$564 + 132 =$$

$$75 + 717 =$$



Tandululani zwi tevhelaho:

James o kuvhanganya mimavhulu ya 525.

Arali Ndavhe a mu fha mirwe mimavhulu ya 205, James o vha a tshi do vha e na ya tshivhalo tshi no lingana na tsha Ndavhe.

- Vhuvhili havho vho vha vha tshi do vha vhe na mimavhulu mingana?
- Ndavhe o vha e na mimavhulu mingana na u thomani?

-
-



74

Deithi:

Mutanganyo na mutuso hafhu u swika kha 800

Themo ya 3

Miṭa ya nomboro.

Ri a kona u fhaṭa miṭa ya nomboro.
Muṭa muṅwe na muṅwe u na nomboro mbili khulwane na nthihi ṭhukhu.

Tsumbo ndi ya 4, 8 na 12.

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

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



Wanani miṭa ya nomboro.

Ṇwalani mafhungombalo a 4 a tshigwada tshinwe na tshinwe tsha nomboro.

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



Sedzani vhushaka.

Kha nyito iyi ri do topola phatheni.

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



Lwendo lulapfu.

Vho Ndwambi vha reila vha tshi ya u tolela mme avho vha no dzula vhukule ha 352 km u bva ha Vho Ndwambi. Vha swika hune vha ima vho no tshimbila 166 km. Vho salelwa nga lwendo lungafhani?

<p>Musiiwa u ita hezwi:</p> $352 - 166$ $+4 \quad +30 \quad +100 \quad +52$ $30 + 4 + 100 + 52$ $= 134 + 52 = 186 \text{ km}$	<p>Phophi u ita hezwi:</p> $352 - 166$ $= 300 + 50 + 2$ $- 100 + 60 + 6$ $= 300 + 40 + 12$ $- 100 + 60 + 6$ $= 200 + 140 + 12$ $- 100 + 60 + 6$ $= 100 + 80 + 6$ $= 186 \text{ km}$
<p>Mbali u ita hezwi:</p> $352 - 166$ $166 + 100 \rightarrow 266 + 34 \rightarrow 300 + 52 \rightarrow 352$ $100 + 34 + 52 = 134 + 52 = 186 \text{ km}$	<p>Peter u ita hezwi:</p> $352 - 166$ $= 352 - 100 - 66$ $= 252 - 66$ $= 252 - 52 - 14$ $= 200 - 14$ $= 186 \text{ km}$
<p>Veronica u ita hezwi:</p> $352 - 166$ $352 - 152 = 200$ $200 - 14 = 200 - 10 - 4$ $= 190 - 4$ $= 186 \text{ km}$	<p>Livhu u humbula nga nyingakavhili (davhulu) na dzihafu:</p> <p>Hafu ya 352 ndi 176 Fhedzi ndi tea u dzhia 166 fhedzi, zwino ndi tanganya (vhuyedzedza) murahu 10. $176 + 10 = 186 \text{ km}$</p>

Ambani nga ngila dzo fhambananaho. Ndi ngila ifhio ine na i takalelesa? Ngani?



Tandululani zwi tevhelaho kha bammbiri linwe:

Shumisani inwe na inwe ya ngila dzi re afho ntha.

$$746 - 328$$

$$800 - 499$$



75

Deithi:

Mutanganyo na mutuso u swika kha 800 hafhu

Themo ya 3



Fhatani mita ya nomboro ya inwi muṅe.

Nyito ya u didudedza.

Tsumbo: Vhumbani 17

5 12 17



$$5 + 12 = 17$$

$$12 + 5 = 17$$

$$17 - 12 = 5$$

$$17 - 5 = 12$$

$$8 + 9 = 17$$

$$9 + 8 = 17$$

$$17 - 9 = 8$$

$$17 - 8 = 9$$

8 9 17



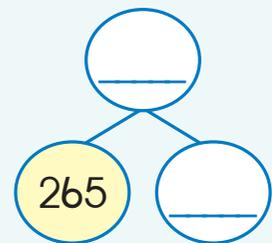
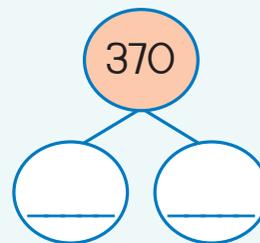
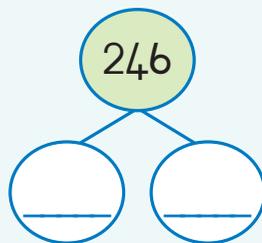
Tolani!
Vhambedzani!
Lulamisani!

Ni tshi itela nomboro inwe na inwe i re afho fhasi, nangani dza 2 ni fhatḗ muṅa. Nwalani mafhungombalo maṅa (mavhili a + na mavhili a -) kha muṅa muṅwe na muṅwe wa nomboro.

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



Tolani!
Vhambedzani!
Lulamisani!





U hafulela u tusa.

Arali ni tshi divha dzihafu na nyingakavhili dzau, tshinwe tshifhinga ni nga dzi shumisa kha u tangany kana u tusa. **Tsumbo:**

$34 - 18 = 16$	$190 - 97$	$65 + 69$	$242 + 249$
$34 - 17 = 17$	$190 - 95 = 95$	$65 + 65 = 130$	$= 242 + 242 + 7$
$17 - 1 = 16$	$95 - 2 = 93$	$130 + 4 = 134$	$= 484 + 7$
			$= 491$

Zwino edzisani hezwi:

$340 - 176$	$145 + 148$	$900 - 452$
-------------	-------------	-------------



Sedzesani ndila (ngona).

Munwe na munwe wa vhana vha 25b u wana mpho ya Khirisimusi. Hafu yavho vha fhiwa mipopi ingeno inwe hafu i tshi fhiwa zwimodoro. Ndi vhangana vhe vha fhiwa zwimodoro.

Ndila 1	Ndila 2
$25b = 200 + 50 + b$ → Hafu ya 200 ndi 100 → Hafu ya 50 ndi 25 → Hafu ya b ndi 3 $100 + 25 + 3 = 128$ → Hafu ya 25 <u>b</u> ndi 128 Zwi amba uri vha 128 vha fhiwa zwimodoro.	→ Hafu ya 250 = 125 → Hafu ya b ndi 3 $125 + 3 = 128$ → Hafu ya 25 <u>b</u> ndi 128. Zwi amba uri vha 128 vha fhiwa zwimodoro.



Tandululani zwi tevhelaho kha bammbiri linwe:

Shumisani inwe na inwe ya ndila dzi re afho ntha.

Munwe na munwe wa vhana vha 728 u fhiwa thoyi resituarenteni ya henefho. Hafu yavho vha fhiwa zwibulokozwifhati. Ndi vhangana vhe vha fhiwa zwibulokozwifhati.

Munwe na munwe wa vhana vha 642 u fhiwa mafini. Hafu yavho vha fhiwa mafini dzi re na matshakatshaka a tshokoleithi. Ndi vhangana vhe vha fhiwa mafini dzi re na matshakatshaka a tshokoleithi.



Teacher: _____
 Sign: _____
 Date: _____

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Deithi:

Phetheni dza nomboro: u bva kha mahumi u swika kha 800

Themo ya 3



Ni nga ri vhudza mini nga nomboro dzi re
zwibulokoni zwi re na muvhala?

Vhalani mahumi u bva kha 710 u swika kha
800. Ndi nomboro dzifhio dzi no tevhela
720 arali ni tshi khou vhala nga mahumi?

Vhalani ni tshi ya murahu nga mahumi u bva
kha 800 u swika kha 710.

Ndi nomboro dzifhio dzi no tevhela 760 arali
ni tshi khou vhala ni tshi humela murahu?

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



Fhedzisani mafhungombalo.

720; 730; 740; _____; _____; _____

800; 790; 780; _____; _____; _____



Tanganyani kana ni tuse fumi.

1. Tanganyani fumi kha nomboro ye na newa.
Ro dzula ro ni itela ya u thoma.

a. $767 + 10 = 777$

b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____



a. $767 - 10 = 757$

2. Tšusani fumi kha nomboro ye na newa. Ro dzula ro ni itela ya u thoma.

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

3. Hu bvelela mini musu ni tshi tanganya kana u tšusa fumi kha nomboro dzi re afho ntšha?



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo ya nomboro.

a. Ndi zwifhio zwine na vhona kha zwitendeledzi izwi? _____

b. Tharamudzani thevhekano ya nomboro dzi

tevhelaho:

799; 789; 779; _____; _____; _____

704; 714; 724; _____; _____; _____

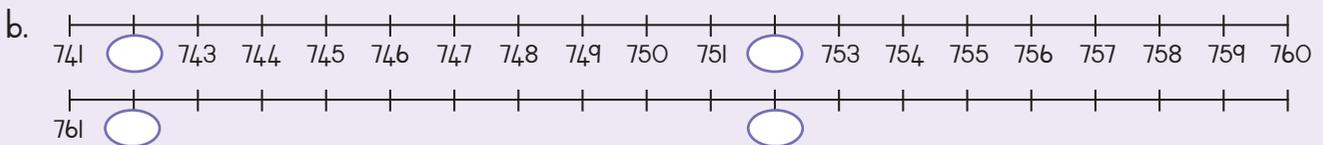
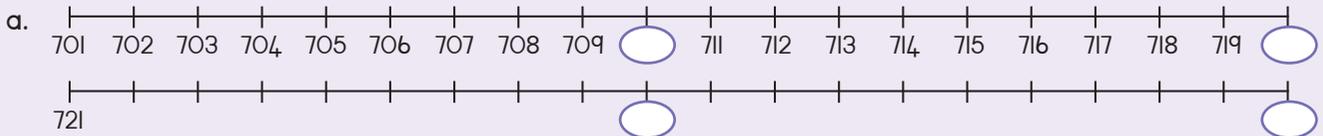
782; 772; 762; _____; _____; _____

715; 725; 735; _____; _____; _____

737; 747; 757; _____; _____; _____



Dzhenisani (niwalani) nomboro yone tshitendeledzini tshinwe na tshinwe kha mitalombalo iyi.



Ndi na nomboro ya didzhiti dza 3.

Didzhiti ya u thoma ndi 7, i no tevhela ndi khulwane kha sumbe nga thihi, didzhiti ya u fhedzisela ndi thukhu kha sumbe nga thihi.



Arali na vhala ni tshi ya phanda nga mahumi u bva kha nomboro iyi, nomboro iyi i do vha ifhio?



Teacher: _____
Sign: _____
Date: _____

Deithi:

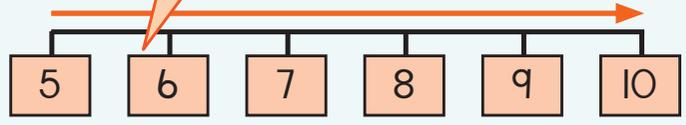
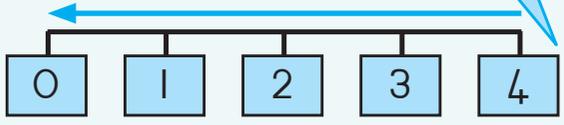
77

U sendedza tsini zwa vha mahumi

Themo ya 3

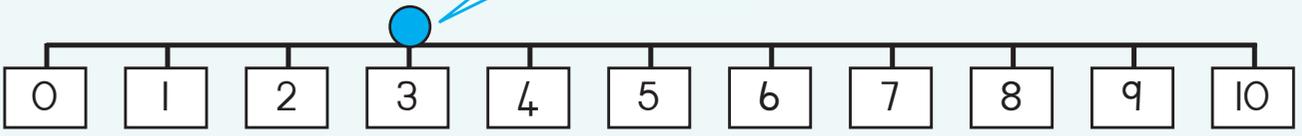
Nomboro dzotlhe u thoma kha 4 u ya murahu dzi go sendedzwa tsini dza vha 0.

Nomboro dzotlhe u thoma kha 5 u ya phanda dzi go sendedzwa tsini dza vha 10.

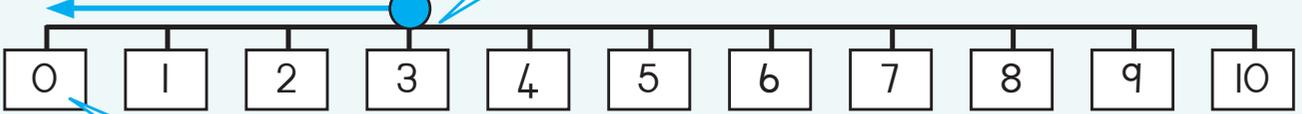


Kha ri ambe

Lavhelesani 3 kha mutalombalo.



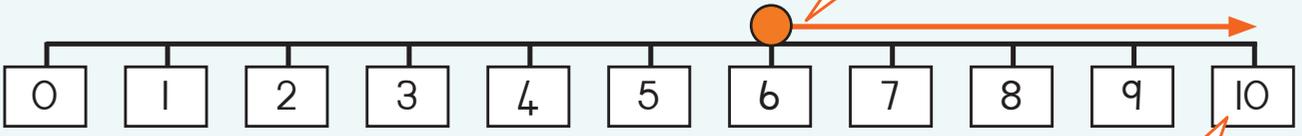
3 i go vha mini musi yo sendedzwa tsini?



3 yo sendedzwa tsini na fumi ya tsinisa i go vha zero.

6 i go vha mini musi yo sendedzwa tsini na fumi ya tsinisa?

Itani zwi no fana (zwenezwo) kha:



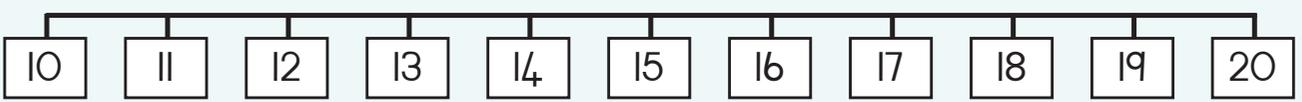
Phindulo i go vha 10.



Sendedzani tsini na 10 ya tsinisa.

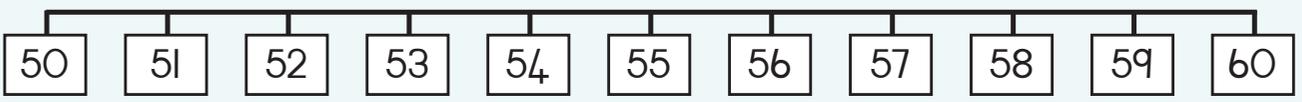
12 yo sendedzwa tsini ndi? _____

19 yo sendedzwa tsini ndi? _____



53 yo sendedzwa tsini ndi? _____

58 yo sendedzwa tsini ndi? _____





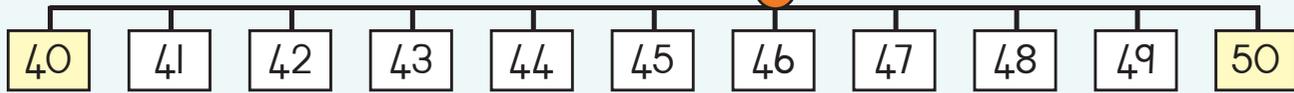
Sendedzani kha IO ya tsinisa ni tshi shumisa mitalombalo uri i ni tshuse.

a. 46

46

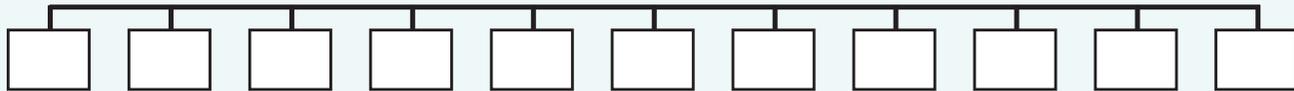
50

46 i vhukati ha fumi nngana mbili?



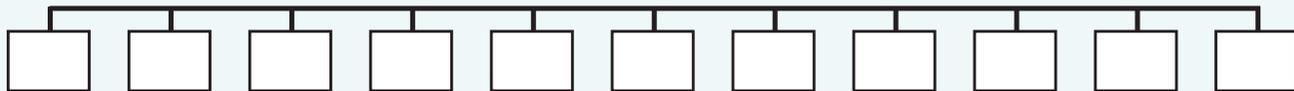
b. 63

63 i vhukati ha fumi nngana mbili?



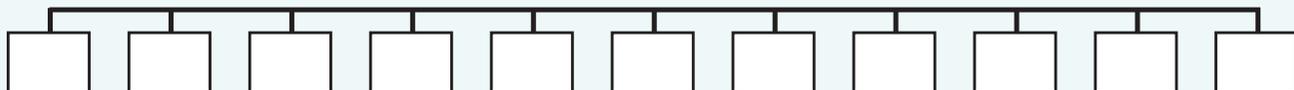
c. 37

37 i vhukati ha fumi nngana mbili?



d. 99

99 i vhukati ha fumi nngana mbili?



Tom u na R48,00.



Phakhethe ya magaraṭa e a a kuvhanganya i dura R5,00.

A nga kona u renga phakhethe nngana dza magaraṭa nga R48,00? _____



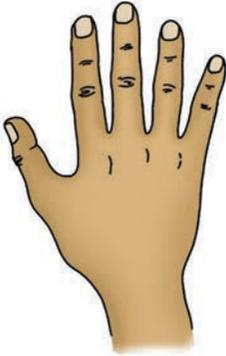
Teacher: _____
Sign: _____
Date: _____

Mutanganyo: ṭhanu u swika kha 75

Themo ya 3

Ndi zwifhio zwi re
zwiṭanuzwiṭanu?

Minwe ya tshanda
tshithihi.



Hu na minwe mingana
kha:

zwanda zwa 2?

zwanda zwa 3?

zwanda zwa 4?

zwanda zwa 5?

zwanda zwa 6?

zwanda zwa 7?

zwanda zwa 8?

zwanda zwa 9?

zwanda zwa 10?

Livhanyani mbalo na
mbudziso dzi re kha tsha
monde:

$$9 \times 5 = 45$$

$$7 \times 5 = 35$$

$$2 \times 5 = 10$$

$$4 \times 5 = 20$$

$$3 \times 5 = 15$$

$$5 \times 5 = 25$$

$$10 \times 5 = 50$$

$$6 \times 5 = 30$$

$$8 \times 5 = 40$$



Fhedzisani thebulu.

U vhea nga zwigwada	U andisa	U kovhela	Kovhani
zwigwada zwa 2 zwa 5	$2 \times 5 = 10$	Kovhelani 10 kha vha 5	$10 \div 5 = 2$
zwigwada zwa 7 zwa 5		Kovhelani 35 kha vha 5	
zwigwada zwa 12 zwa 5		Kovhelani 60 kha vha 5	
zwigwada zwa 15 zwa 5		Kovhelani 75 kha vha 5	



Fhedzisani thebulu.

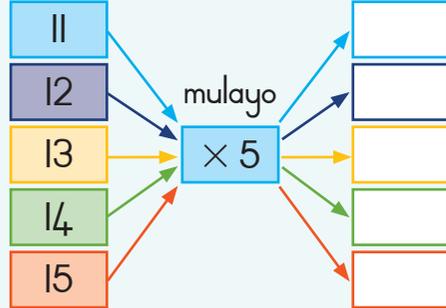
U kovhela	Kovhani
Kovhelani 12 kha vha 5	$12 \div 5 = 2$ ha sala 2
Kovhelani 64 kha vha 5	
Kovhelani 39 kha vha 5	
Kovhelani 73 kha vha 5	



Fhedzisani nyolo dza muelo.

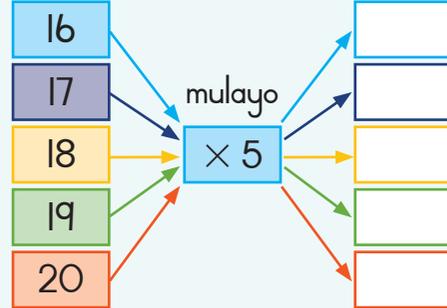
nomboronzheniswa

nomboromviswa



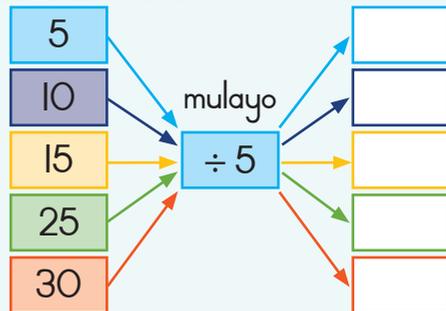
nomboronzheniswa

nomboromviswa



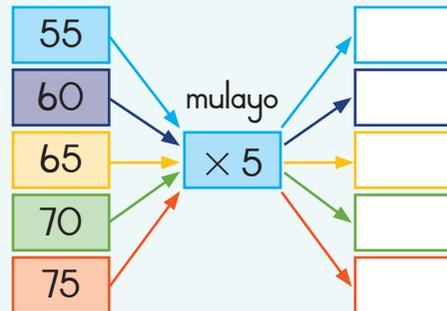
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebuḽu dzi re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
5										

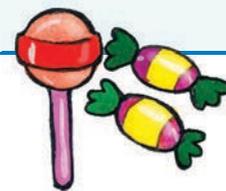
×	11	12	13	14	15	16	17	18	19	20
5										

Phindulo dzine dza tea u nwalwa kha zwiḽuḽoko zwa lutombo no dzi wanisa hani?



Tandululani zwi tevhelaho:

Mme anga vho renga phakhethe dza maḽegere dzi no ḽura R70. Vho renga phakhethe nthihi nga R5.
Ndi phakhethe nngana dza maḽegere dze vha renga?



Teacher:

Sign:

Date:

79

Deithi:

Phetheni dza nomboro: u bva kha t̃hanu u ya kha 800

Themo ya 3



Ni nga ri vhudza mini nga nomboro dzi re kha zwibuloko zwa muvhala wa tshitopana?

Vhalani t̃hanu u bva kha 705 u swika kha 800. Ndi nomboro dzifhio dzi no tevhela 720 arali ni tshi khou vhalela nga t̃hanu?

Vhalani ni tshi ya murahu nga t̃hanu u bva kha 800 u swika kha 705.

Ndi nomboro dzifhio dzi no tevhela 730 arali ni tshi khou vhala ni tshi humela murahu?

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



Fhedzisani mafhungombalo.

725; 730; 735; _____; _____; _____

800; 795; 790; _____; _____; _____



Tanganyani kana ni t̃use t̃hanu.

1. Tanganyani t̃hanu kha nomboro ye na ñewa. Ro dzula ro ni itela ya u thoma.

$$a. 760 + 5 = 765$$

b. 725 _____

c. 780 _____

d. 755 _____

e. 715 _____

f. 790 _____



2. Tšani tšhanu kha nomboro ye na newa. Ro dzula ro ni itela ya u thoma.

a. $765 - 5 = 760$

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

3. Hu bvelela mini musu ni tshi tšanganya kana u tšusa tšhanu kha nomboro dzi re afho ntšha?



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo a nomboro.

a. Ndi zwifhio zwine na vhona kha zwitendeledzi izwi? _____

b. Tharamudzani thevhekano ya nomboro

dzi tevhelelaho:

701; 706; 711; _____ ; _____ ; _____

703; 708; 713; _____ ; _____ ; _____

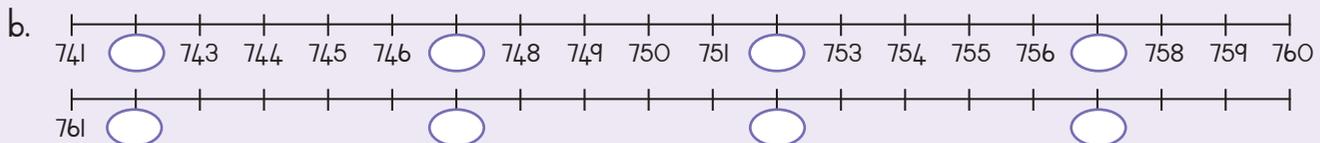
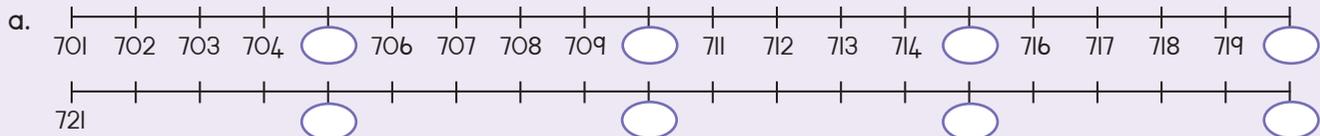
722; 727; 732; _____ ; _____ ; _____

753; 758; 763; _____ ; _____ ; _____

714; 719; 724; _____ ; _____ ; _____



Dzhenisani (riwalani) nomboro yone tshitendeledzini tshinwe na tshinwe kha mitalombalo iyi.



Ndi na nomboro ya didzhiti dza 3.

Didzhiti ya u thoma ndi 7, i no tevhelela ndi khulwane kha sumbe nga thihi, didzhiti ya u fhedzisela ndi tšukhu kha sumbe nga thihi.

Arali na vhala ni tshi ya phanda nga mahumi u bva kha nomboro iyi, nomboro iyi i do vha ifhio? _____



Teacher: _____
 Sign: _____
 Date: _____

80

Deithi:

Tshifhinga tsha masiari na tshifhinga tsha vhusiku

Themo ya 3



Cape Town

Thebulu i re afho fhasi i sumbedza u tsha ha duvha na u kovhela halo nga zwifhinga zwo fhambananaho doroboni ya Cape Town. Vhalani zwifhinga zwi re kha thebulu iyi ni kone u dadza thebulu nga zwithu zwo teaho musini sa athu fhindula mbudziso dzi re afho fhasi.



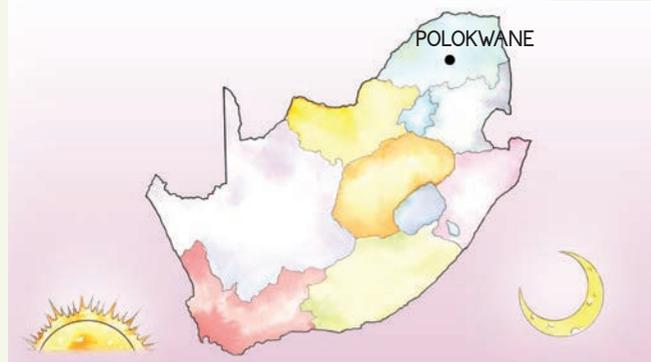
Cape Town	U tsha ha duvha	U kovhela ha duvha	Vhulapfu ha duvha	Vhulapfu ha vhusiku
Thafamuhwe 23	6:53 am	6:53 pm		
Fulwi 21	7:51 am	5:44 pm		
Khubvumedzi 19	6:41 am	6:41 pm		
Nyendavhusiku 22	5:32 am	7:58 pm		

- Ndi nga nwedzi ufho hune masiari na vhusiku zwa vha zwo lapfa u fana? _____
- Ndi nwedzi ufho une wa vha na maduvha malapfusa? _____
- Ndi nwedzi ufho une wa vha na maduvha mapfufhisa? _____
- Wanani phambano ya awara na miminete vhukati ha duvha lilapfusa na duvha lipfufhisa. _____
- Wanani vhulapfu ha masiari na vhusiku zwa deithi inwe na inwe afho kha thebulu. _____



Polokwane

Thebuḽu i re afho fhasi i sumbedza u tsha ha ḽuvha na u kovhela haḽo nga zwifhinga zwo fhambananaho ḽoroboni ya Polokwane. Vhalani zwifhinga zwi re kha thebuḽu iyi ni kone u ḽadza thebuḽu nga zwithu zwo teaho musu ni sa athu fhindula mbudziso dzi re afho fhasi.



Polokwane	U tsha ha ḽuvha	U kovhela ha ḽuvha	Vhulapfu ha ḽuvha	Vhulapfu ha vhusiku
Tḽhafamuhwe 25	6:08 am	6:08 pm		
Fulwi 21	6:44 am	5:24 pm		
Khubvumedzi 17	5:57 am	5:57 pm		
Nyendavhusiku 22	5:13 am	6:50 pm		

- Ndi nga ṅwedzi ufhio hune masiari na vhusiku zwa vha zwo lapfa u fana? _____
- Ndi miṅwedzi ifhio kha yeneyi hune vhulapfu ha ḽuvha ha fana hoṽhe Cape Town na Polokwane? _____
- Ndi nga miṅwedzi ifhio hune zwa fhambana? _____
- Wanani phambano ya awara na miminete vhukati ha ḽuvha liḽapfusa na ḽuvha liḽpufhisa.

- Wanani **vhulapfu** ha **masiari** na **vhusiku** zwa deithi iṅwe na iṅwe afho kha thebuḽu.



Humbelani muṅwe muṽhu a ni thuse u wana zwifhinga zwa u tsha na u kovhela ha ḽuvha afho hune na dzula hone.

Zwi ṅwaleni kha vhege nthihi. Maḽuvha a khou lapfa kana a khou pfufhifhala?

Teacher: _____
Sign: _____
Date: _____

Muandiso: mbili u swika kha 75

Ndi zwifhio zwi no tshimbila nga zwiwihilizwihili? Phere nthihi ya zwienda.



Fhedzisani thebulu.

Ndi zwienda zwingana zwi no ita

Phere ya 1 ya zwienda?
Phere dza 2 dza zwienda?
Phere dza 3 dza zwienda?
Phere dza 4 dza zwienda?
Phere dza 5 dza zwienda?
Phere dza 6 dza zwienda?
Phere dza 7 dza zwienda?
Phere dza 8 dza zwienda?
Phere dza 9 dza zwienda?
Phere dza 10 dza zwienda?

Ndi zwienda zwingana zwi no ita

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

U vhea nga zwigwada	Andisani	U kovhela	Kovhani
zwigwada zwa 10 zwa 2	$10 \times 2 = 20$	Kovhani zwa 20 kha vha 2	$20 \div 2 = 10$
zwigwada zwa 15 zwa 2		Kovhani zwa 30 kha vha 2	
zwigwada zwa 20 zwa 2		Kovhani zwa 40 kha vha 2	
zwigwada zwa 35 zwa 2		Kovhani zwa 70 kha vha 2	



Fhedzisani thebulu.

U kovhela	Kovhani
Kovhani zwa 21 kha vha 2	$21 \div 2 = 10$ ha sala 1
Kovhani zwa 33 kha vha 2	
Kovhani zwa 67 kha vha 2	
Kovhani zwa 75 kha vha 2	



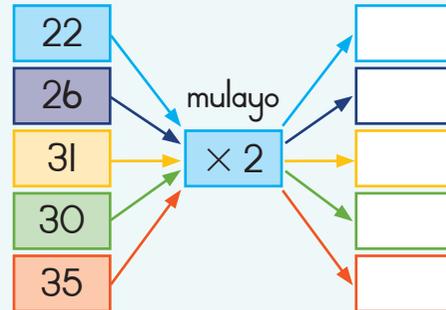
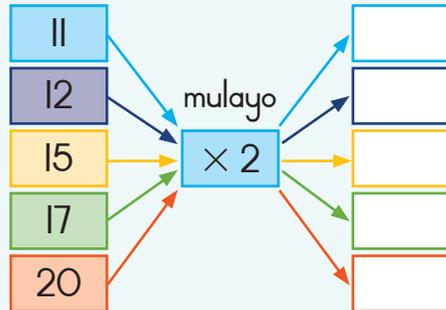
Fhedzisani nyolo dza muelo.

nomboronzheniswa

nomboromviswa

nomboronzheniswa

nomboromviswa

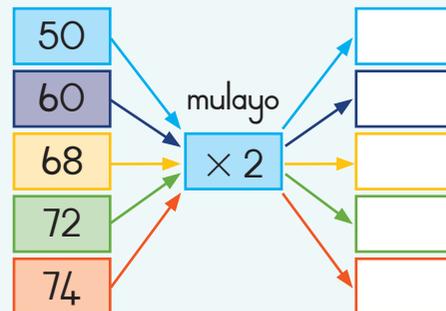
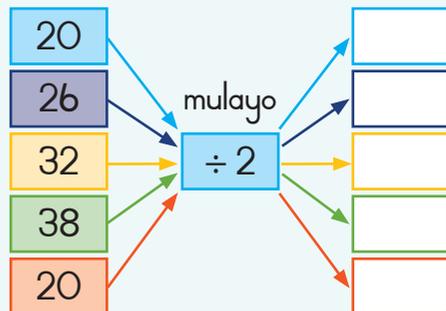


nomboronzheniswa

nomboromviswa

nomboronzheniswa

nomboromviswa



Fhedzisani thebuḽu dzi re afho fhasi:

×	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																	



Thasululani zwi tevhelaho:

Ndo renga maḽegere a thanda a 36 nga R2.
 Ndo a renga nga R50, R20 na nga khoini ya R5.
 Tshintshi yanga yo vha vhugai?



Teacher: _____
 Sign: _____
 Date: _____

Phetheni dza nomboro: mbilimbili (dzi2) u swika kha 800

Themo ya 3



Ni nga amba mini nga zwibuloko zwi re na muvhala wa tshitopana?

Vhalani nga mbili u bva kha 700 u swika kha 800. Hu tevhela mini musi no no vhalala 700 nga mbili?

Vhalani ni tshi humela murahu nga ṭhanu u bva kha 800 u swika kha 710.

Ndi mini tshi no rangela 750 musini tshi vhalala ni tshi ya murahu?

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



Fhedzisani mitevhe ya nomboro.

720; 722; 724; _____; _____; _____

800; 798; 796; _____; _____; _____



Tanganyani kana ni ṭuse mbili.

I. Tanganyani mbili kha nomboro ye na n̄ewa.
Ro dzula ro ni itela ya u thoma.

a. $764 + 2 = 766$

b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____



2. Tšusani mbili kha nomboro ye na n̄ewa. Ro dzula ro ni itela ya u thoma.

a. $764 - 2 = 762$

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

3. Hu bvelela mini musu ni tshi tšanganya kana u tšusa mbili kha nomboro dzi re afho n̄ha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledzi izwi? _____

- b. Tšaramudzani mitevhe i tevhelaho ya nomboro:
- | |
|--------------------------------------|
| 799; 797; 795; _____ ; _____ ; _____ |
| 783; 785; 787; _____ ; _____ ; _____ |
| 701; 703; 705; _____ ; _____ ; _____ |
| 779; 781; 783; _____ ; _____ ; _____ |
| 725; 727; 729; _____ ; _____ ; _____ |



Dzhenisani nomboro yone kha tshitendeledzi tshinwe na tshinwe kha mitalombalo iyi.

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



Ndi na nomboro ya didzhiti dza 3.

Didzhiti ya u thoma ndi 7, didzhiti i tevhelaho i n̄ha nga nomboro i no fhira 7 nga mbili, nahone didzhiti ya u fhedzisela ndi tšukhu kha sumbe nga n̄a.

Arali na vhala ni tshi ya phanda nga mbili u thoma kha iyi nomboro, nomboro iyi i do vha mini?



Teacher: _____
 Sign: _____
 Date: _____

Muandiso:

dzi2 na dzi5 u swika kha 75



Ni nga kona u f'hindula zwi tevhelaho nga luvhilo lungaf'hani?

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



Vhonani uri khonani yanga o ita mini.

$$4 \times 2 = 8$$

Ambani ngazwo.

Khonani yanga o sumbedza 4×2 nga hei ndila:

Pfukani u vhala	Zwigwada zwi no lingana	Ndovhololo ya mutanganyo	Kuvhekanyele	Mbuno
2, 4, 6, 8		$2 + 2 + 2 + 2$	xx xx xx xx	$2 \times 4 = 8$ $4 \times 2 = 8$ $8 \div 4 = 2$ $8 \div 2 = 4$

Itani zwenezwo na hafha $4 \times 5 = 20$.

Pfukani u vhala	Zwigwada zwi no lingana	Ndovhololo ya mutanganyo	Kuvhekanyele	Mbuno



Andisani zwi tevhelaho:

24×3 $= (20 + 4) \times 3$ $= (20 \times 3) + (4 \times 3)$ $= 60 + 12$ $= 72$	a. 13×3	b. 18×3
c. 12×5	d. 21×3	e. 14×3
f. 25×3	g. 12×3	h. 15×5



Thasululani zwi tevhelaho:

Ndo renga maḽegere a 14 nga R3.
 Khonani yanga o renga maḽegere a 12 nga R5.
 Vhuvhili hashu ro badela vhugai ya maḽegere?



Muandiso: tharu i swika kha 75

Themo ya 3

Ndi zwifhio zwi no
tshimbila nga
zwiraruzwiraru?
Mavhili a thiraisikili



Hu na mavhili mangana
kha

- thiraisikili ya 1?
- thiraisikili dza 2?
- thiraisikili dza 3?
- thiraisikili dza 4?
- thiraisikili dza 5?
- thiraisikili dza 6?
- thiraisikili dza 7?
- thiraisikili dza 8?
- thiraisikili dza 9?
- thiraisikili dza 10?

Livhangani thanganyelo na
mbudziso i re kha tsha monde:

- $9 \times 3 = 27$
- $7 \times 3 = 21$
- $2 \times 3 = 6$
- $4 \times 3 = 12$
- $3 \times 3 = 9$
- $5 \times 3 = 15$
- $1 \times 3 = 3$
- $10 \times 3 = 30$
- $6 \times 3 = 18$
- $8 \times 3 = 24$



Fhedzisani thebulu.

U vhea nga zwigwada	Andisani	U kovhela	Kovhani
zwigwada zwa 11 zwa 3	$11 \times 3 = 33$	Kovhani zwa 33 kha vha 3	$33 \div 3 = 11$
zwigwada zwa 15 zwa 3		Kovhani zwa 45 kha vha 3	
zwigwada zwa 25 zwa 3		Kovhani zwa 60 kha vha 3	
zwigwada zwa 12 zwa 3		Kovhani zwa 36 kha vha 3	



Fhedzisani thebulu.

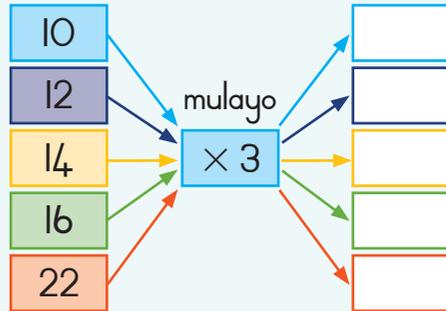
U kovhela	Kovhani
Kovhani zwa 37 kha vha 3	$37 \div 3 = 12$ ha sala 1
Kovhani zwa 74 kha vha 3	
Kovhani zwa 49 kha vha 3	
Kovhani zwa 68 kha vha 3	



Fhedzisi ni nyolo dza muelo.

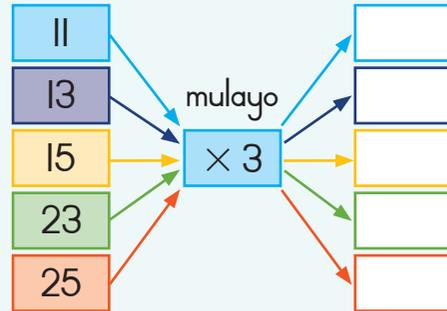
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nomboromviswa



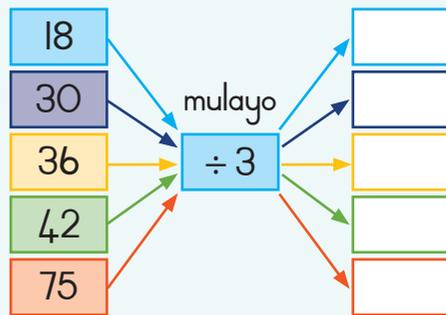
nomboronzheniswa

nomboromviswa



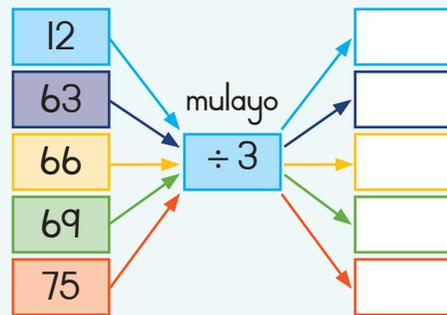
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nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisi ni thebulu dzi re afho fhasi:

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

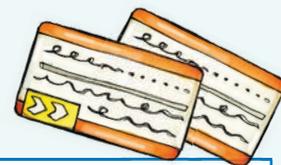
×	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
4															

Phindulo dzi re kha zwiḅuloko zwa muvhala wa lutombo no dzi wanisa hani?



Thasululani zwi tevhelaho:

Tshelede ya u dzhena yo vha i R3 kha ṅwana muṅwe na muṅwe nahone ho vha ho dzhena vhana vha 23 phakhani?



Teacher: _____

Sign: _____

Date: _____

Muandiso:

dzi2, dzi3 na dzi4 u swika kha 75

Themo ya 3



Ni nga kona u fhindula zwi tevhelaho nga luvhilo lungafhani?

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



Vhonani uri khonani yanga o ita mini.

$5 \times 2 = 10$

Ambani ngazwo.

Ndo thoma nga u sumbedza 5×2 nga hei ndila:

Pfukani u vhala	Zwigwada zwi no lingana	Ndovhololo ya mutanganyo	Kuvhekanye	Mbuno
2, 4, _ _ _		$2 +$ _ _ _	— rou ya 2 xx	$2 \times$ _ = _ $4 \times$ _ = _ — ÷ — = — — ÷ — = —

Itani zwenezwo na hafha $8 \times 3 = 24$.

Pfukani u vhala	Zwigwada zwi no lingana	Ndovhololo ya mutanganyo	Kuvhekanye	Mbuno

 $6 \times 4 = 24$

Pfukani u vhala	Zwigwada zwi no lingana	Ndovhololo ya mutanganyo	Kuvhekanye	Mbuno



Kovhani ni linge phindulo yanu.

$$63 \div 3$$

$$\begin{aligned}
 &= (60 + 3) \div 3 \\
 &= (60 \div 3) + (3 \div 3) \\
 &= 20 + 1 \\
 &= 21
 \end{aligned}$$

$$21 \times 3$$

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

a. $48 \div 5$

b. $64 \div 5$



Thasululani zwi tevhelaho:

N η e ndi na khonani dzanga ri na R63 ro t η anganela.
 Ri khou t η odou i kovhekana ri vhararu.
 Mu η we no mu η we u η o wana vhugai?



Teacher: _____
 Sign: _____
 Date: _____

86

Deithi:

Phetheni dza nomboro: tharu u swika kha 800

Themo ya 3



Ni nga amba mini nga zwibuloko zwi re na muvhala wa tshitopana?

Vhalani nga tharu u bva kha 703 u swika kha 799. Hu tevhela mini nga murahu ha 745 musi ni tshi vhala nga tharutharu?

Vhalani ni tshi ya murahu nga tharu u bva kha 799 u swika kha 703.

Ndi nomboro dzifhio dzi no rangela 766 musi ni tshi vhala ni tshi humela murahu?

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



Fhedzisani mutevhe wa nomboro.

703; 706; 709; _____; _____; _____

799; 796; 793; _____; _____; _____



Tanganyani kana ni tuse raru.

1. Tanganyani raru kha nomboro ye na nawa.
Ro dzula ro ni itela ya u thoma.

a. $766 + 3 = 769$

b. 766 _____

c. 783 _____

d. 756 _____

e. 713 _____

f. 790 _____



2. Tšusani raru kha nomboro ye ya na n̄ewa. Ro dzula ro ni itela ya u thoma.

a. $766 - 3 = 763$

b. 763 _____	c. 789 _____	d. 756 _____	e. 713 _____	f. 799 _____
--------------	--------------	--------------	--------------	--------------

3. Hu bvelela mini musu ni tshi tšanganya kana u tšusa raru kha nomboro dzi re afho n̄tha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona zwifhio kha zwitendedzi izwi? _____

b. Tšaramudzani mitevhe i tevhelaho ya nomboro:

704; 707; 710; _____ ; _____ ; _____

782; 785; 788; _____ ; _____ ; _____

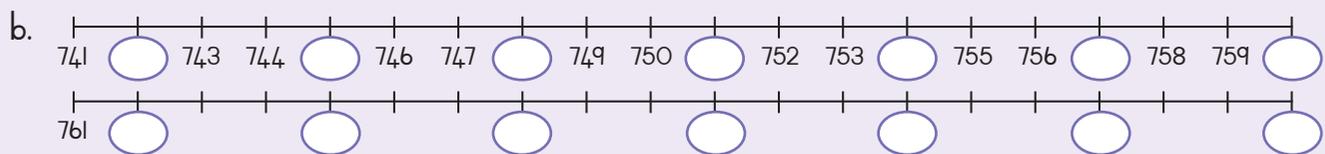
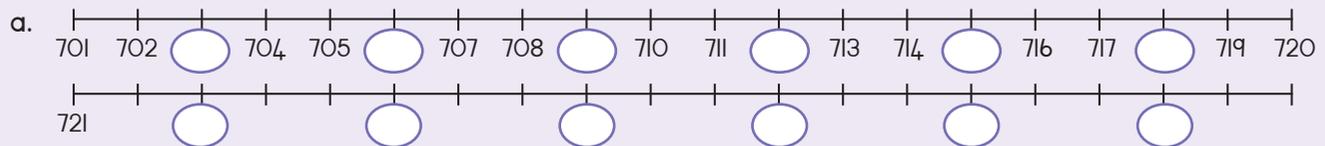
773; 776; 779; _____ ; _____ ; _____

779; 782; 785; _____ ; _____ ; _____

779; 776; 773; _____ ; _____ ; _____



Dzhenisani nomboro yone kha tshitendeledzi tshin̄we na tshin̄we kha mitalombalo iyi.



Ndi na nomboro ya didzhiti dza 3:

Didzhiti ya u thoma ndi 7, didzhiti i tevhelaho i n̄tha nga nomboro i no fhira sumbe nga mbili, nahone didzhiti ya u fhedzisela ndi tšukhu kha sumbe nga sumbe.

Zwino vhalani ni tshi ya phanda nga tharutharu u thoma kha heyi nomboro.

Ni wana nomboro ifhio? _____



Teacher: _____

Sign: _____

Date: _____

Muandiso: dziina u swika kha 75

Themo ya 3

Ndi zwifhio zwi no
tshimbila nga zwiḽazwiḽa?
Mavhili a moḽoro



Hu na mavhili mangana
kha

Gloi ya 1?

Gloi dza 2?

Gloi dza 3?

Gloi dza 4?

Gloi dza 5?

Gloi dza 6?

Gloi dza 7?

Gloi dza 8?

Gloi dza 9?

Gloi dza 10?

Livhangani tḽhanganyelo na
mbudziso i re kha tsha monde:

$$9 \times 4 = 36$$

$$7 \times 4 = 28$$

$$2 \times 4 = 8$$

$$4 \times 4 = 16$$

$$3 \times 4 = 12$$

$$5 \times 4 = 20$$

$$1 \times 4 = 4$$

$$10 \times 4 = 40$$

$$6 \times 4 = 24$$

$$8 \times 4 = 32$$



Fhedzisani thebuḽu:

U vhea nga zwigwada	Andisani	U kovha	Kovhani
Zwigwada zwa 12 zwa 4	$12 \times 4 = 48$	Kovhani zwa 48 kha vha 4	$48 \div 4 = 12$
Zwigwada zwa 16 zwa 4		Kovhani zwa 64 kha vha 4	
Zwigwada zwa 18 zwa 4		Kovhani zwa 72 kha vha 4	
Zwigwada zwa 15 zwa 4		Kovhani zwa 60 kha vha 4	



Fhedzisani thebuḽu:

U kovhela	Kovhani
Kovhani zwa 35 kha vha 4	$35 \div 4 = 8$ ha sala 3
Kovhani zwa 55 kha vha 4	
Kovhani zwa 70 kha vha 4	
Kovhani zwa 75 kha vha 4	



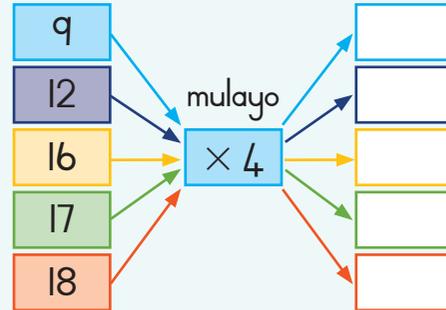
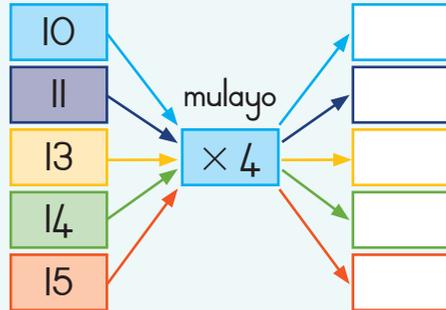
Fhedzisani nyolo ya lubuvhi.

nomboronzheniswa

nomboromviswa

nomboronzheniswa

nomboromviswa

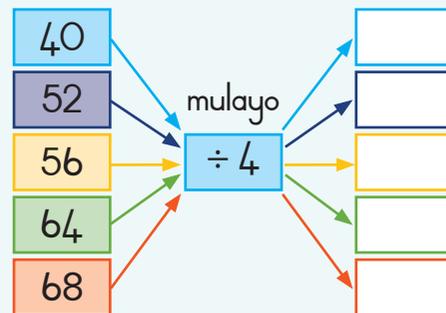
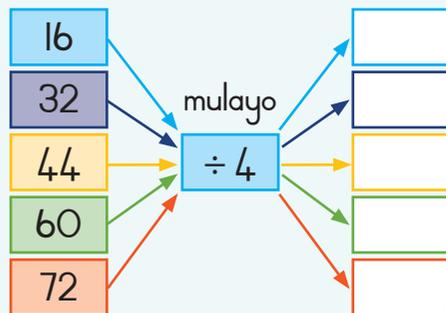


nomboronzheniswa

nomboromviswa

nomboronzheniswa

nomboromviswa



Fhedzisani thebuḽu dzi re afho fhasi:

×	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															

Phindulo dzi re kha zwiḽuḽoko zwa muvhala wa lutombo no dzi wanisa hani?



Thasululani zwi tevhelaho:

Ndi na R75.

Ndi zwiḽiḽa zwingana zwiḽuku zwa mpho zwa R4 zwine nda nga renga?



Teacher: _____
 Sign: _____
 Date: _____

Phetheni dza

nomboro u swika kha 800

Themo ya 3



Ni nga amba mini nga zwibuloko zwi re na muvhala wa tshitopana?

Vhalani nga tharu u bva kha 704 u swika kha 800. Hu tevhela mini nga murahu ha 736 musini tshi vhala nga inaina?

Vhalani ni tshi humela murahu nga thanu u bva kha 800 u swika kha 704.

Ndi mini tshi no rangela 776 musini tshi vhala ni tshi ya murahu?

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



Fhedzisani mutevhe wa nomboro.

704; 708; 712; _____; _____; _____

724; 728; 732; _____; _____; _____



Tanganyani kana ni tuse ina.

1. Tanganyani ina kha nomboro ye ya newa.
Ro dzula ro ni itela ya u thoma.

a. $764 + 4 = 768$

b. 764 _____

c. 788 _____

d. 754 _____

e. 718 _____

f. 794 _____



2. T̄usani iᅇa kha nomboro ye na ᅇewa. Ro dzula ro ni itela ya u thoma.

a. $76\cancel{4} - 4 = 76\text{O}$

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

3. Hu bvelela mini musu ni tshi t̄anganya kana u t̄usa iᅇa kha nomboro dzi re afho nᅇha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

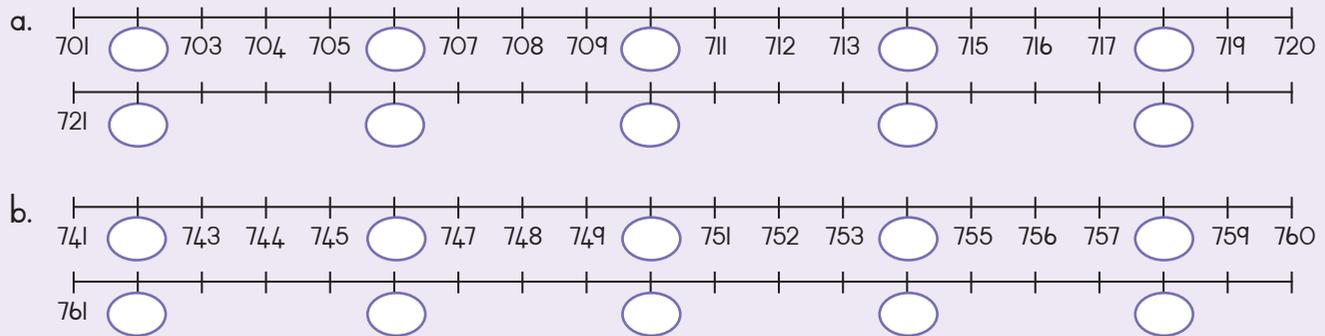
a. Ni vhona mini kha zwitendeledi izwi? _____

b. T̄haramudzani mitevhe i tevhelaho ya nomboro:

- | | |
|--------------------------------------|--------------------------------------|
| 703; 707; 711; _____ ; _____ ; _____ | 711; 715; 719; _____ ; _____ ; _____ |
| 773; 777; 781; _____ ; _____ ; _____ | 783; 779; 775; _____ ; _____ ; _____ |
| | 799; 795; 791; _____ ; _____ ; _____ |



Dzhenisani nomboro yone kha tshitendeledzi tshinwe na tshinwe kha mitalombalo iyi.



Ndi na nomboro ya didzhiti dza 3.

Didzhiti ya u thoma ndi 7, didzhiti i tevhelaho i nᅇha nga nomboro i no fhira 7 nga nthihi, nahone didzhiti ya u fhedzisela ndi t̄hukhu kha sumbe nga raru.

Arali na vhala ni tshi ya phanda nga mbili u thoma kha iyi nomboro, nomboro iyi i ᅇo vha mini?



Teacher: _____
 Sign: _____
 Date: _____

Muandiso na mukovho:

dzi2, dzi3 na dzi5 u swika kha 75

Themo ya 3



Ni nga kona u f'hindula zwi tevhelaho nga luvhilo lungaf'hani?

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



Khalarani zwibuloko zwine khazwo t'hanganyelo ya ni f'ha tshitahe.

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



Ni zwi divha hani uri nomboro i nga kovhea nga:

- 3? Arali na nga t'anganya dzididzhiti dza nomboro (tsumbo, 72 i na didzhiti $7 + 2 = 9$) ni nga kona u kovha nomboro iyi ntswa nga 3 (tsumbo 9 i a kovhea nga 3).
- 2? _____
- 5? _____



Kovhani ni linge phindulo yanu.

$$65 \div 3$$

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

$$21 \times 3 + 2$$

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

a. $49 \div 5$

b. $65 \div 5$



Thasululani zwi tevhelaho:

Ni tea u ya na ita ṭhodisiso.
Ni zwi ḍivha hani uri nomboro i nga kovhea nga 4?



90



Deithi:

Mbonalo dza zwithu zwa 3-D

Themo ya 3



Lavhelesani zwifanyiso izwi.

Ambani nga zwivhumbeo dza zwithu ni tshi shumisa maipfi a no nga bande na kutaho.

Bola	Mabogisi	Silinda	Phiramidi	Khounu



Lavhelesani zwifanyiso ni fhedzise mafhungo na mbudziso.



a. Bola

_____.



b. Ndi nga mini bola i sa swendi?



c. Silinda

_____.

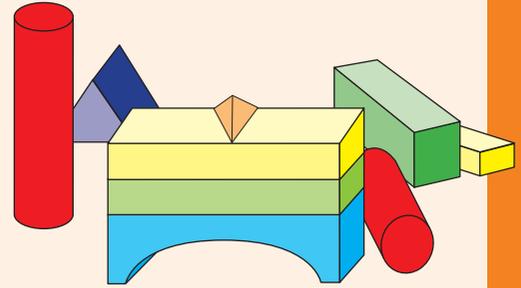
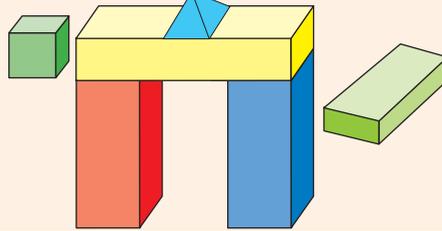
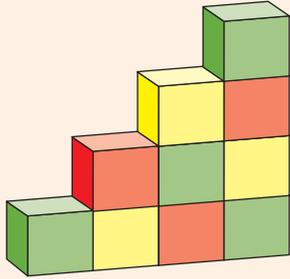


d. Silinda na yone i nga swenda?



Bulani madzina a zwithu zwe zwa shumiswa tshifanyisoni tshinwe na tshinwe.

Ni tea u bula dzina la tshithu luthihi fhedzi. Bulani uri itshi tshithu tshi a kona u kunguluwa naa kana u swenda.



<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>
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Bulani uri tshithu tsha 3-D tshi na vhurumbuntzha ha ngovhe (ho kutaho).

		
<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>



Olani zwi tevhelaho:

<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>
Bogisi lo dzula (balantsa) kha silinda.	Bola yo dzula (balantsa) kha silinda.	Silinda yo dzula (balantsa) kha bogisi.



Teacher:
Sign:
Date:

91

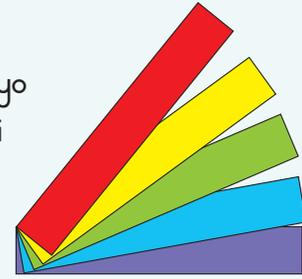
Deithi:

Khithi ya zwibambiri zwa furakhisheni

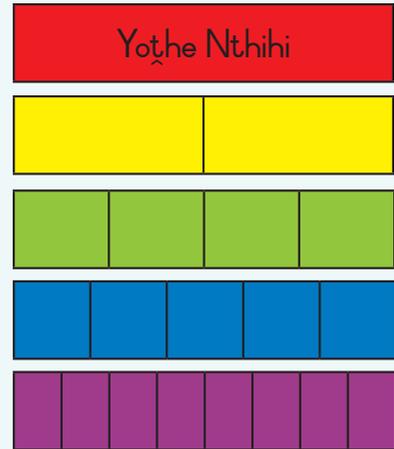
Matheriala: zwibambiri zwa 5 zwa mivhala yo fhambananaho, Tshigero, Penisela/Khirayoni



Itani khithi
Tshigeriwa 5



Kha lubambiri luthihi nwalani maipfi: Yothe Nthihi
Dzhiani luñwe lubambiri ni lu pete nga vhukati. Ni kone u lu putulula. Hu na zwipiḁa zwingana zwi no lingana?
Nwalani $\frac{1}{2}$ kha hafu inwe na inwe ni gere ni tshi tevhedzela he na peta.

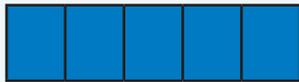


Dzhiani lubambiri lwa vhuraru ni lu pete nga vhukati, dovhani ni pete hafu nga vhukati. Lu putululeni. Hu na zwipiḁa zwingana zwi no lingana? Nwalani $\frac{1}{4}$ kha tshaiḁa tshinwe na tshinwe ni gere ni tshi tevheledzela he na peta.

Zwino edzisani u ita vhubambiri vhubhili hafu, luthihi lu tshi sumbedza zwararu luñwe lu tshi sumbedza zwamalo



Shumisani zwipiḁa zwa khithi ya furakhisheni uri zwi ni thuse kha u fhindula mbudziso idzi.



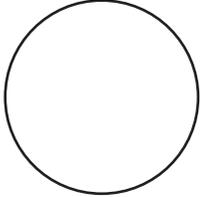
Ndi hafu nngana dzi no lingana na yothe nthi?



Ndi zwaiḁa zwingana zwi no lingana na hafu nthihi?

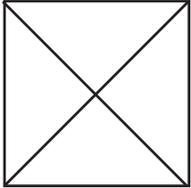
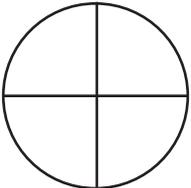
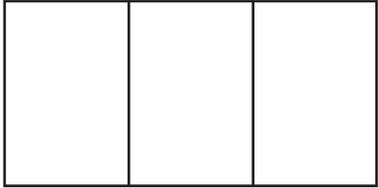
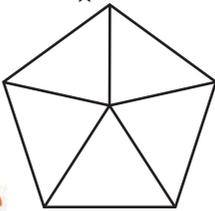
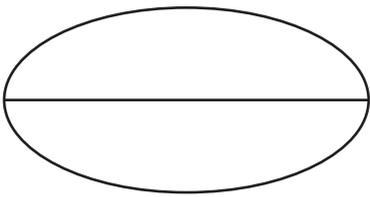
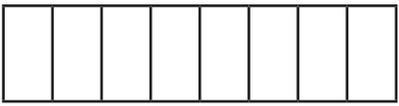


Furakhisheni kha mutalombalo.

<p>Lubambiri ulu lu sumbedza yothe nthihi.</p> 	<p>Tshitendeledzi itshi tshi sumbedza yothe nthihi.</p> 
<p>Khethekanyani lubambiri lu bve zwararu.</p>  <p>Khalarani tshararu.</p>	<p>Khethekanyani tshitendeledzi tshi bve zwararu. Khalarani tshararu.</p> 



Zwino khalarani zwi tevhelaho:

Hafu nthihi 	Kota tharu 	Zwararu zwi vhili 
Zwaṭhanu zwiṅa 	Hafu nthihi 	Kota tharu 



Olani zwi tevhelaho:

Kota tharu ni tshi shumisa zwi kwea.	Hafu nthihi ni tshi shumisa tshitendeledzi.	Zwararu zwi vhili ni tshi shumisa thiraiengele.
Zwaṭhanu zwiṅa ni tshi shumisa tshitendeledzi.	Zwamalo zwiṅa ni tshi shumisa zwi kwea.	Zwararu zwi vhili ni tshi shumisa rekhithiengele.



Lugisani khithi yaṅu.

- Gerani tshinwe na tshinwe tsha zwitendeledzi zwa 6 kha Tshigeriwa 6.
- Gerani zwiṭhanu zwa zwitendeledzi kha mitaladzi zwi bve zwiṭṭapida
- Lebulani tshipida tshinwe na tshinwe:
 - o Kha luṅwe lurumbu riwalani furakhisheni ya awara yoṭhe.
 - o Kha luṅwe lurumbu riwalani tshivhalo tsha minete i re kha furakhisheni yeneyo.



Teacher: _____

Sign: _____

Date: _____

Furakhisheni dzinwe hafhu

Themo ya 3



Nwalani Ee kana Hai.

- Hafu ndi hafu ya Yoṭhe Nthihi
- Hafu ya hafu ndi kota nthihi
- Kota ndi hafu ya hafu
- Hafu nthihi na kota mbili zwi ita yoṭhe
- Hafu na kota zwi ita kota tharu



Kovhani phai.

Sipho, Gugu, Mulalo na Ann vha kovhekana phai nthihi.



a.

Ndi na ngala!
Ndi khou ṭoda hafu.

Sipho



b.

Zwo luga! Ndi ḡo dzhia kota.

Gugu



Olani mukovhe wa Sipho.

Olani mikovhe ya Sipho na Gugu.

c.

Nṅe ndi ḡo dzhia hafu ya ye ya sala.

Andile



d.

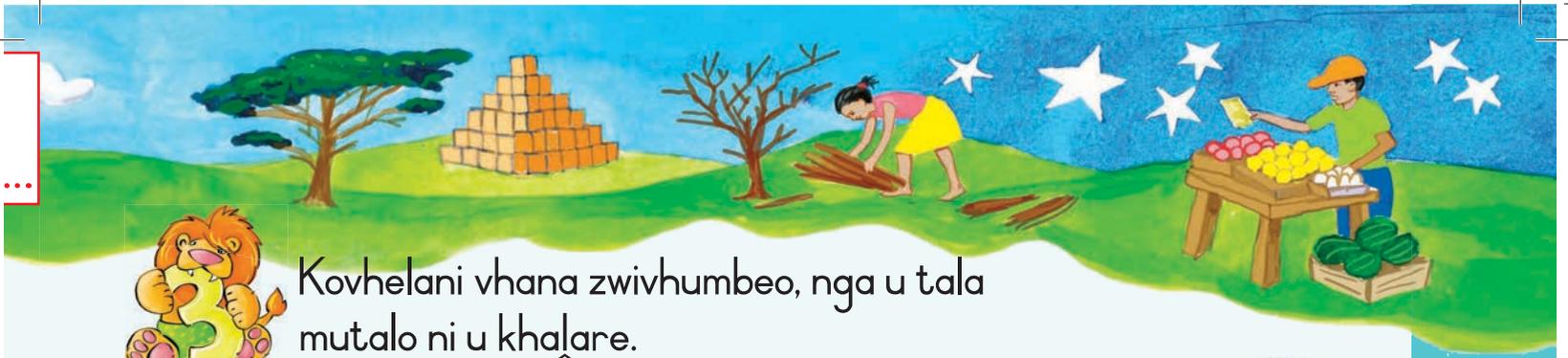
Nṅe ndo salelwa nga phai nngafhani?

Lisa



Olani mikovhe ya Sipho, Gugu na Mulalo.

Olani miṅwe mikovhe yoṭhe ya phai.



Kovhelani vhana zwivhumbeo, nga u tala mutalo ni u khalare.

--	--	--	--



Khonani nna dzi kovhekana malegere a likhwarazi a 5 a zwitanda nga u lingana.
 Muñwe na muñwe u do wana mangana?
 Mbudziso ndi if hio?

Nomboro ndi dzif hio?

Olani tshifanyiso.

Khonani dza rathi dzi kovhekana malegere a likhwarazi a 9 a zwitanda nga u lingana.
 Muñwe na muñwe u do wana mangana?
 Mbudziso ndi if hio?

Nomboro ndi dzif hio?

Olani tshifanyiso.



Teacher: _____

Sign: _____

Date: _____

Ukovhekanya zwi tshi livha kha furakhisheni

Themo ya 3

Zwivhaleli zwa 12 khezwi.

Ri khonani mbili. Ri na tshifaredzi tshithihi fhedzi tsho fhandulwaho tsha bva hafu dzi no lingana.

Ri ri hei ndi hafu nthihi..

Ri ri hei ndi hafu nthihi.

Ri kovhekana zwivhaleli zwa fumimbili vhuvhili hashu.

Ndi na zwivhalelei zwa rathi.

Ndi na zwivhalelei zwa rathi.



Itani nyolo ya zwi tevhelaho ni f'hindule mbudziso.

Bola dza ṭahe dzi kovhelwa khonani tharu.

- Musidzana muñwe na muñwe u ɗo wana bola nngana?
- Musidzana muñwe na muñwe u ɗo wana furakhisheni ifhio?

Bola dza ṭahe dzi kovhelwa khonani n̄na. Vhararu vhavho ndi vhatukana.

- Musidzana muñwe na muñwe u ɗo wana bola nngana?
- Mutukana muñwe na muñwe u ɗo wana furakhisheni ifhio?



Maanda u ɗo wana furakhisheni ifhio? Ann u ɗo wana furakhisheni ifhio?

Ndi pfi Maanda

- Maanda na Ann vha ɗo wana bola nngana?

Ndi pfi Ann.

- Maanda na Ann vha ɗo wana bola nngana?



U kovhekana ma \grave{a} legere.

Khonani dzi kovhekana ma \grave{a} legere. Muiwe na muiwe wavho u wana $\frac{1}{2}$ (hafu) ya phakhethe.

a. Vha tea u kovhekana phakhethe nngana kha:

khonani dza 4? _____ khonani dza 6? _____ khonani dza 9? _____

b. Ndi khonani nngana dzine dza nga kovhekana:

phakhethe dza 4? _____ phakhethe dza 10? _____ phakhethe dza $3\frac{1}{2}$? _____



Zwirivha zwa mitshino.

Vhomme na vhomakhulu vha runga zwirivha zwa mitshino.

Vha \grave{t} oda mithara (m) dza $2\frac{1}{2}$ dza labi.

Labi li \grave{d} ura R6 mithara muthihi.

a. Ndi zwirivha zwingana zwine vha nga runga nga?

5 m _____ 10 m _____

20 m _____ 25 m _____

b. Ndi labi lingafhani line vha \grave{d} o \grave{t} oda kha u runga?

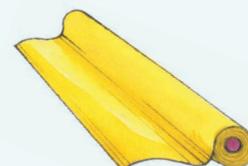
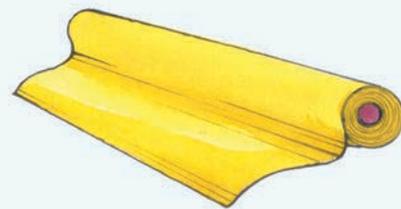
zwirivha zwa 2 _____ zwirivha zwa 3 _____ zwirivha zwa 4 _____

c. Labi la u runga zwi tevhelaho li \grave{d} ura vhugai?

tshirivha tsha 1 _____ zwirivha zwa 2 _____ zwirivha zwa 3 _____

d. Vha nga runga zwirivha zwingana nga:

R450 _____ R825 _____ R180 _____



Muelo ri tshi mona

Themo ya 3

Ipfi la mudzinge (pherimitha) li amba vhulapfu kana muelo ri tshi mona na tshithu.

	<p>Rabulasi u na bulasi ya tshivhumbeo tsha thiraiengele.</p> <p>Ri nga wana mudzinge wa puloto iyi nge ra tanganya vhulapfu ha matungo.</p> <p>Mudzinge = $12\text{ m} + 12\text{ m} + 6\text{ m} = 30\text{ m}$</p>
--	--



Wanani mudzinge.



Ngade ya Veronica.

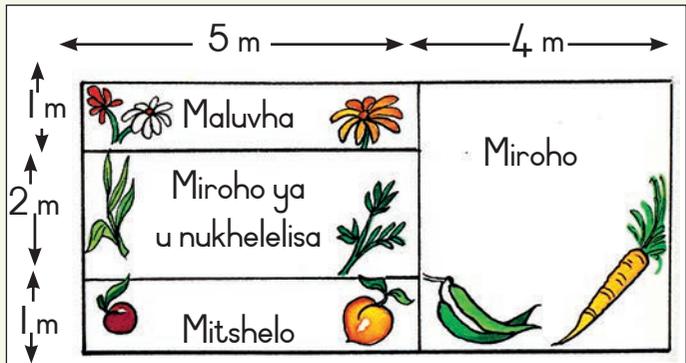
Veronica u ola mudzinge wa ngade ine a todou lima.

a. Mudzinge wa tshipida tshine a do lima khatsho miroho ya u nukhelelisa ndi uf hio?

b. Ndi zwipida zwif hio zwi re na midzinge i no fana? Mudzinge wazwo ndi uf hio?

_____ na _____ zwi na mudzinge wa _____ m.

c. U khou toda ita luhura lwa darata u mona na ngade yot he. Darata i dura R50 nga mithara. Luhura lwa darata lu do dura vhugai? _____





Pulanelani ngade yanu inwi mune.

Shumisani bammbiri la giridi li re kha Tshigeriwa 7 kha u pulanela ngade yanu inwi mune. Sumbedzani mielo yothe khathihi na zwimela zwine na nga tama u zwi tavha.

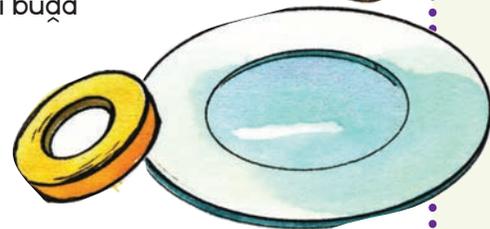


U ela zwitendeledzi.

Shumani ni na phathinara yanu.

Matheriala: Zwithu zwa fumi zwa zwitendeledzi zwa saizi dzo fhambananaho zwi no nga phuleithi, ngilasi, theipi ya u nambatedza, tshitibo tsha bodelo, lutambo na tshigero.

1. Nangani tshithu tshithihi tsha tshitendeledzi tshine na nga ela nga lutambo.
2. Gerani tshipida tsha lutambo tshine tsha nga mona tshithu kwakwakwa.
3. Zwino dzhiani lutambo lwonolwo ni lu tsharamudze lu tshi buda na tshitendeledzi. Vhalani uri lu pfukela seli lungana.
4. Itani zwi no fana na zwenezwi kha izwo zwinwe zwithu zwa zwitendeledzi.
5. Nwalani zwe na vhona. Tshikhala tsha u mona na tshitendeledzi tshi vhidzwa u pfi ndi muelotenge.



Tshikhala tsha u buda na tshitendeledzi tshi vhidzwa u pfi ndi muelotenge.



Tshikhala tsha u buda na tshitendeledzi tshi vhidzwa u pfi ndi dayamitha (phandakati).



Teacher:
Sign:
Date:

U renga tshelede

Tambani mitambo i tevhelaho ni na phathinara yanu.

Matheriala:

RIOO RIO

RI IOc Ic



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

Bodo ya tshelede (Tshigeriwa 8),

Bambiri na penisela, daisi mbili, tshelede ya u tambisa (i wanala kha Tshigeriwa 9): Noutu dza RIOO na RIO; khoini dza RI, IOc na Ic.

Vheani Bodo ya Tshelede n̄ha ha t̄afula.

Bodo i na zwikhala (khethekanyo) zwa 5 zwi no bva kha tshamonde zwi tshi ya kha tsha u la, RIOO, RIO, RI, IO senthe, na I senthe. Kha mutambo uyu ri khou shumisa kholomo tharu dza u thoma.



Tanganyani u swika kha Rannda dza IOO.

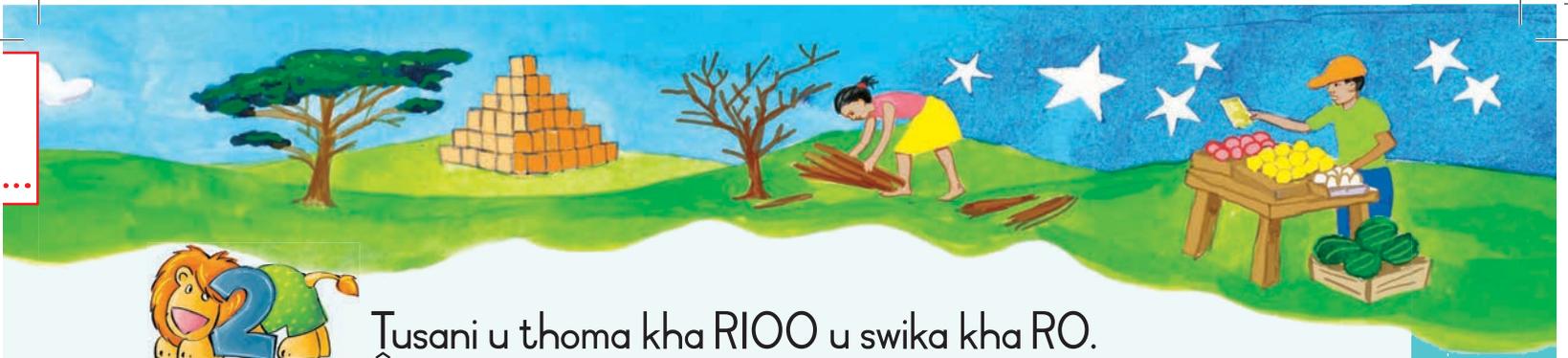
1. Mutambi muñwe na muñwe u wana tshifhinga tsha u kungulusa daisi. Tanganyani nomboro mbili.
2. Dzhiani khoini dza RI dzi no lingana nomboro iyo ni dzi vhee kha tshikhala tsha RI kha bodo yanu.
3. Musi ni tshi tou wana khoini dza fumi dza RI ni fanela u dzi rengisa na wana noutu ya RIO.

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

4. Ane a do vha wa u thoma u wana noutu dza RIO a dzi rengisa a wana noutu ya RIOO ndi ene we a wina.

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

5. **Ndat̄iso:** Arali mutambi a fhedza raundu yawe a hangwa u rengisa khoini dzawe dza RI uri a wane noutu ya RIO, ngeno u la muñwe mutambi o kona u vhona vhukhaki uhu, ndat̄iso ndi RI. Arali mutambi a hangwa u rengisa noutu dza RIO uri a wane RIOO, u fanela u badela u la muñwe RIO.



Tusani u thoma kha RIOO u swika kha RO.

Tambani mutambo u no fana na u \bar{a} , fhedzi ni thome nga noutu dza RIO, ni tuse t \bar{h} anganyelo ya nomboro dzi re kha daisi. Mutambi a no wana RO ndi ene we a wina.

RIOO	RIO	RI	IOc	Ic



Mutanganyo na mutuso u swika kha RI 000.

Tanganyani t \bar{h} anganyelo i re kha daisi kha raundu inwe na inwe, ni dzhie noutu dza RIO dza nomboro yeneyo. Muthu wa u thoma u swika kha RI 000 o wina. Kana, thomani nga RI 000, ni tuse kha raundu inwe na inwe. Mutambi wa u thoma u swika kha RO o wina.



U tanganya u swika kha RI.

Tambani mutambo u no fana na wa u thoma, fhedzi zwino ni kungulusa daisi na wana t \bar{h} anganyelo, dzhiani t \bar{h} anganyelo ya nomboro dza daisi nga khoini dza Ic, ni dzi rengise ni wane khoini ya IOc. A re ene wa u thoma u rengisa khoini dza IOc a wana khoini ya RI o wina.



Tusani masenthe.

Thomani nga RI, ni tuse kha raundu inwe na inwe. Wa u thoma u wana O senthe o wina.

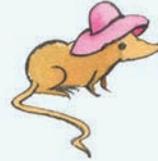


Kha ri ye mavhengeleni!



Seili ya miñadzi.

Vhengeleni vha rengisa miñadzi ya 5 nga mitengo yo fhambananaho.



								Thanganyelo
Muñadzi wa a	 R20	R20	R20	R20	R20	R20	R20	R120
Muñadzi wa b	 R25	R25	R25	R25	R25	R25	R25	
Muñadzi wa c	 R50	R50	R50	R50	R50	R50	R50	
Muñadzi wa d	 R75							
Muñadzi wa e	 R100							

- a. Wanani velu ya miñadzi kha rou iñwe na iñwe.
- b. Vho Mme Madzanga vha renga muñadzi wa l wa lushaka luñwe na luñwe.
Vha badela vhugai yo ṭangana yo ṭhe? _____
- c. Buti u shumisa R450 yo ṭangana yo ṭhe. U renga muñadzi wa l nga R100.

U renga miñwe miñadzi ifhio? Sumbedzani phindulo dza 2 dzine dza nga wanala.

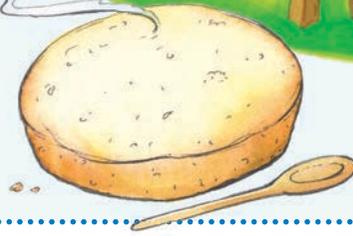
Tolani!
Vhambedzani!
Lulamisani

Phindulo 1	Phindulo 2



Bekharini.

Musa u shumisa risipi ino kha u baka khekhe ya tshipontshi.



Risipi ya khekhe ya tshipontshi

Zwa khekhe: Fuḷauru ya 40 g i no kukumuwa nga yoṭhe; Makumba a 3; swigiri aisiṅi ya 50 g

Zwa u shela: Luvhomba lwa 140 ml

a. Wanani uri Musa u ṭoda zwithu zwingafhani zwa u baka khekhe dza 6.

Khekhe	Fuḷauru	Makumba	Swigiri aisiṅi	Luvhomba (khirimu)
1	40 g	3	50 g	140 ml
2				
3				
4				
5				
6				

b. Itani thiki (✓) kha phindulo i re yone.

Litha ya l ya luvhomba i nga ḍodziwa kha: khekhe dza 10; khekhe dza 7; khekhe dza 8.



Mbalotshihadu.

Ṭolani! Vhambedzani!
Lulamisani

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



Zwinwe hafhunga data



Tshītītshini tsha mapholisa.

Mapholisa matānu a ita mishumo yo fhambananaho. Vha ngafhi zwino?

	Desikeni	Vha khou paṭirola	Khothe
Bababa			x
Maria	x		
Sam	x		
Amos		x	
Dudu			x

Nwalani madzina a vhane: Vha vha desikeni. _____

Vha khou paṭirola. _____

Vha vha khothe. _____



Duvha ḷa miri.



Zwikolo zwiṭānu zwi kha muṭāṭisano wa u vhona uri ndi vhaḥḥio vhane vha ḍo ṭavha miri minzhi

nga Duvha ḷa Arbor.  = 10 miri

Klipspruit	
Mthonjeni	
Sonskyn	
Thuthong	
Mosiba	

Tshikolo tshinwe na tshinwe tshi ṭavha miri mingana?

Klipspruit	Mthonjeni	Sonskyn	Thuthong	Mosiba

Zwikolo zwi ṭavha miri mingana yo ṭangana yoṭhe? _____



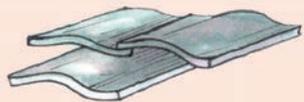
Ndi t̄hanga ifhio?

Vha kilasi ya Gireidi 3 vha ita t̄hodisiso mudanani.

Vha tama u wana tshaka dzo fhambananaho dza t̄hanga dza n̄du dzo fhambananaho.

Vha sumbedza mvelelo dzavho nga girafu ya buloko.

Vha ita thiki (✓) nthihi kha n̄du in̄we na in̄we ine vha i vhona.



Zwileithi	✓	✓	✓	✓	✓	✓					
Hatsi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mabulannga	✓	✓	✓	✓	✓	✓	✓	✓			
Mazenngwe	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Ni vhona t̄hanga nngana dza lushaka lūwe na lūwe?

Dzithaili _____ Hatsi _____ Mabulannga _____ Mazenngwe _____

Ndi lushaka lufhio lwa t̄hanga lu no funeswa? _____

Vha kona u vhala t̄hanga nngana dzo t̄angana dzot̄he? _____



Saizi (mielo) ya minadzi.

Vhatukana vha tshikoloni tsha Juma vha ambara gebisi dza tshikolo.

Gebisi idzi dzi na saizi 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	



Vhalani uri ndi vhagudi vhangana vha no ambara gebisi dza saizi in̄we na in̄we.

2 _____ 3 _____ 4 _____

Ndi saizi ifhio yo andesaho? _____

Tolani! Vhambedzani!
Lulamisani

Teacher: _____
Sign: _____
Date: _____

Ushuma nga senthimitha

Themo ya 4



Mutaladzi wo khalariwaho wo lapfa lungafhani?

Three measurement exercises using a 10-unit ruler:

- 1. A purple line is drawn from 0 to 4 on the ruler. Below it is a blank box for the answer.
- 2. A purple line is drawn from 0 to 7 on the ruler. Below it is a blank box for the answer.
- 3. A blue line is drawn from 0 to 10 on the ruler. Below it is a blank box for the answer.



Thomani nga u anganyela ni kone u ela mitaladzi. Fhedzisani thebulu.

Mutaladzi	U anganyela	Muelo	Phambano vhukati ha muanganyelo na muelo



Shumisani ruḽa kha u ola mitaladzi i tevhelaho.

a. 10 cm

b. 7 cm

c. 15 cm



Bulani uri ni ḽo ela zwi tevhelaho nga mitha kana nga senthimitha naa.

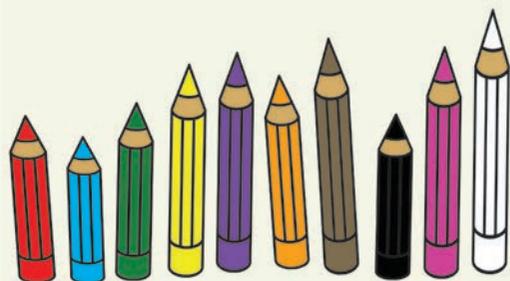
- Vhulapfu ha bugu. _____
- Vhunṽha ha munango. _____
- Vhulapfu ha penisela _____
- Vhulapfu haṽu. _____
- Vhulapfu ha munwe waṽu _____

Ni elelwe ṽhukhufhadzo dza maipfi dzine ra dzi shumisa. Ri ṽwala cm (senthimitha) na m (mitha).



Kha ṽwaha no shumisa penisela dza u khalara dzaṽu ṽhanu. Vhulapfu hadzo ho vha hu 15 cm musi ni sa athu dzi shumisa.

Musi no no dzi shumisa penisela tswuku yo no vha na vhulapfu ha 7 cm, ya lutombo 5 cm, dala 6 cm, ya ṽada 11 cm, ya phephulu 12 cm, ya tshitopana 9 cm, ya buraunu 14 cm, ntswu 8 cm, ya pinki 13 cm ngeno tshena i 15 cm.



- Ndi penisela ifhio ye na i shumisesa? _____
- Ndi penisela ifhio ye na si i shumisesa? _____
- ṽwalani vhulapfu ha penisela dzaṽu u thoma kha pfufhisa u swika kha ndapfusa _____



11 12 13 14 15 16 17 18 19 20

98

Deithi:

Nomboro 700 u swika kha 800

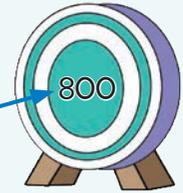
Themo ya 4



Vhalani ni n'wale.

- a. Vhalani u bva kha 700 u swika kha 800.
Bulani nomboro musu ni tshi khou ralo u vhalala.

700



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

b. N'walani nomboro dzi no khou t'ahela kha giridi i re af'ho n'tha.

c. N'walani nomboro dza 10 dzi no tevhela 750.

750; _____; _____; _____; _____; _____; _____; _____; _____; _____

d. N'walani nomboro dza 8 dzi no tevhela kha phetheni ya dzi2.

762; 764; 766; _____; _____; _____; _____; _____; _____

e. N'walani nomboro dzo t'he dzi re kha phetheni ya dzi2 u bva kha 751 u swika kha 773.

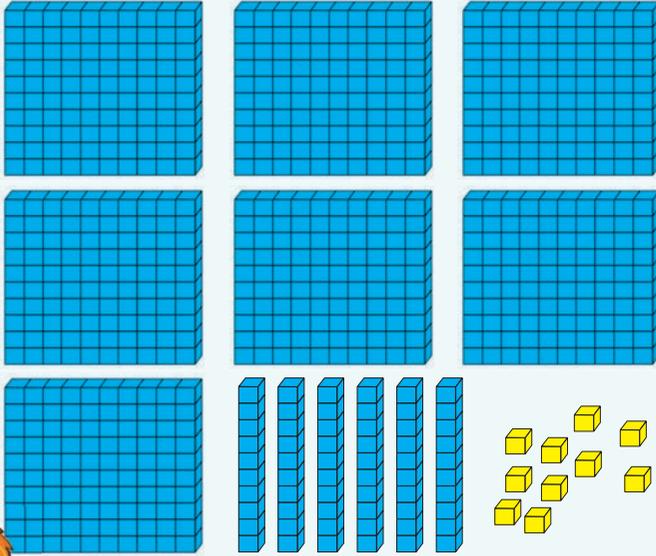
751; _____; _____; _____; _____; _____; _____; _____; _____; 773

f. N'walani nomboro dza 8 dzi no tevhela kha phetheni ya dzi2.

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



Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

750			753				757		759	
							789	786	788	
					753	756	759			



Fhedzisani thebuḽu.

Ñwalani u bva kha tḽhukhusa u ya kha khulwanesa

Ñwalani u bva kha khulwanesa u ya kha tḽhukhusa

776, 772, 779, 770, 778	
736, 703, 730, 713, 703	



Ñwalani zwi tevhelaho nga maipfi.

788	
-----	--



Teacher: _____

Sign: _____

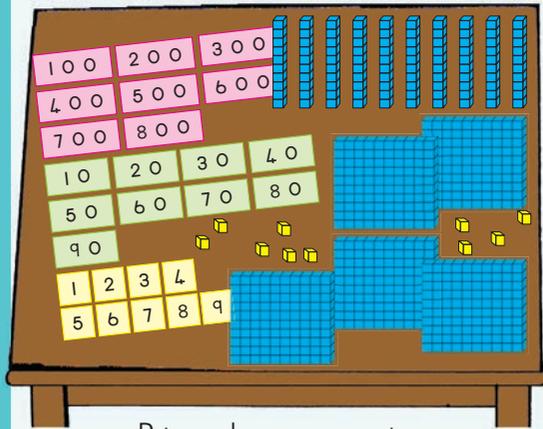
Date: _____

qq

Deithi:

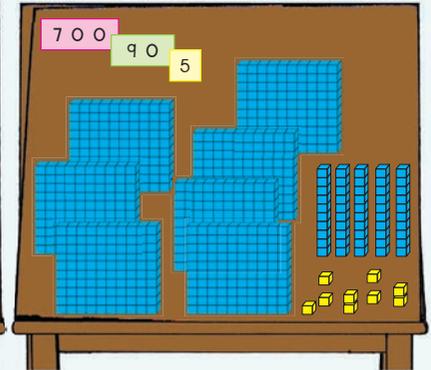
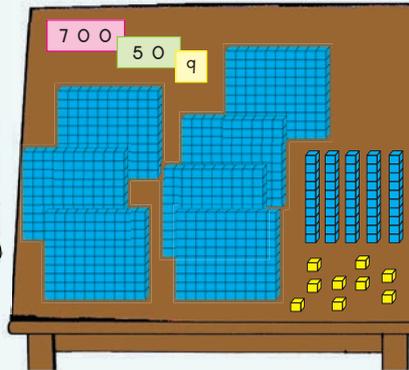
Nomboro dzinwe hafhu 700 u swika kha 800

Themo ya 4



Mudededzi vho humbela Peter uri a sumbedze 759 nga magaraṭa awe na zwiḅuloko.

Hezwi ndi zwe Ben a sumbedza zwone. O khakha ngafhi?



Peter o vha e na magaraṭa a vhuimo ha nomboro na zwiḅuloko zwa beisi ya fumi zwi tevhelaho.



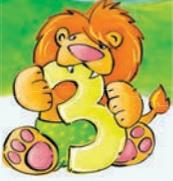
Nwalani fhungo la nomboro ni tevhedze nga phindulo.

$700 + 60 + 7 = 767$		



Nwalani fhungo la nomboro ni tevhedze nga phindulo.

$700 + 90 + 9$ $=$	$500 + 50$ 	$60 + 5$
-----------------------	--------------------	------------------



Fhedzisani mutalombalo.

789	790	791								799
-----	-----	-----	--	--	--	--	--	--	--	-----

Mpheni nomboro dzotlhe dzi re tshukhu kha 795. _____

Mpheni nomboro dzotlhe dzi re khulwane kha 795. _____



Dzhenisani $< \text{kana} > =$

a. 799 _____ 766 b. 745 _____ 750

c. $700 + 90 + 7$ _____ 767



Padulani nomboro yanu.

- a. Fhatani nomboro inwe na inwe nga magarata anu.
- b. Nwalani velu (ndeme) ya didzhiti inwe na inwe. Zwino itani hezwi: Padulani nomboro yanu.

790	
689	
699	
755	
690	

Tsumbo: 799

7	0	0
9	0	
	9	
7	9	9

799 $700 + 90 + 9$



Nwalani madzina a nomboro.

668	
757	
799	
742	
691	



Teacher: _____
Sign: _____
Date: _____

100

Deithi:

Nomboro 800 u swika kha 900

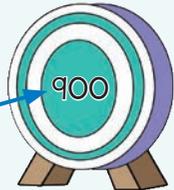
Themo ya 4



Vhalani ni nwale!

- a. Vhalani u bva kha 800 u swika kha 900. Bulani nomboro musu ni tshi khou ralo u vhalala.

800



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

- b. Nwalani nomboro dzi no khou tshela kha giridi i re afho ntha.
- c. Nwalani nomboro dza 10 dzi no tevhela 800.

800; _____; _____; _____; _____; _____; _____; _____; _____; _____

- d. Nwalani nomboro dza 8 dzi no tevhela kha phetheni ya dzi2.

852; 854; 856; _____; _____; _____; _____; _____; _____

- e. Nwalani nomboro dzotlhe dzi re kha phetheni ya dzi2 u bva kha 807 u swika kha 829.

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

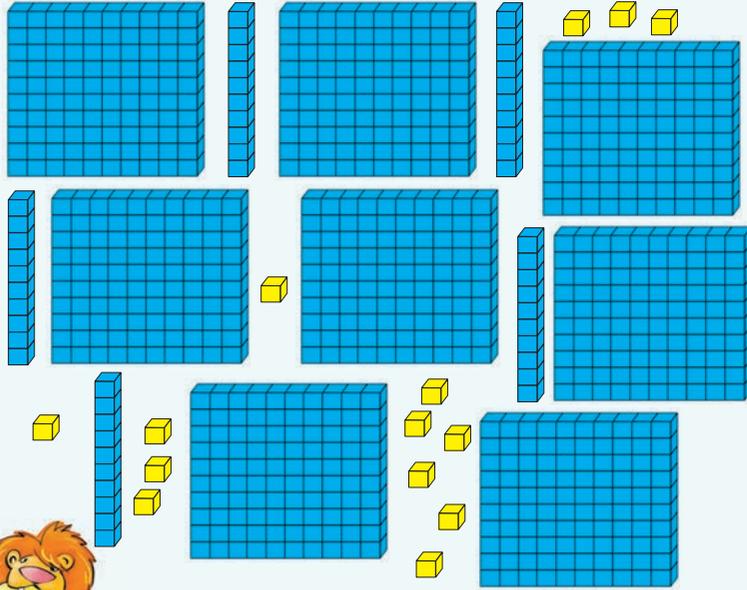
- f. Nwalani nomboro dza 8 dzi no tevhela kha phetheni ya dzi5.

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





Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

830			833				837	838		
							876	881	886	
					843	846	849			



Fhedzisani thebuḽu.

Ñwalani u bva kha tḽukhusa u ya kha khulwanesa

Ñwalani u bva kha khulwanesa u ya kha tḽukhusa

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



Ñwalani zwi tevhelaho nga maipfi.

845	
-----	--



Teacher: _____

Sign: _____

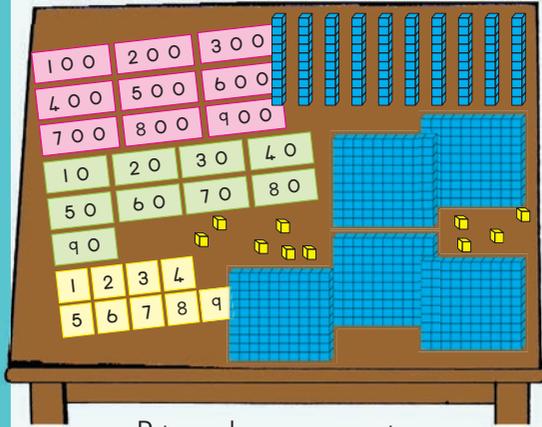
Date: _____

101

Deithi:

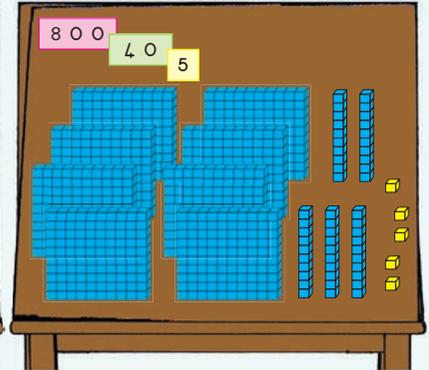
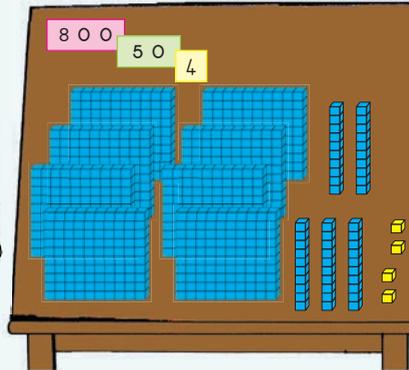
Nomboro dzinwe hafhu 800 u swika kha 900

Themo ya 4

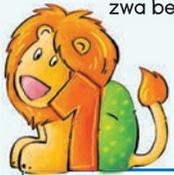


Mudededzi vho hambela Peter uri a sumbedze 854 nga magaraṭa awe na zwiḅuloko.

Hezwi ndi zwe Ben a sumbedza zwone. O khakha ngafhi?



Peter o vha e na magaraṭa a vhuimo ha nomboro na zwiḅuloko zwa beisi ya fumi zwi tevhelaho..



Nwalani f'hungombalo ni tevhedze nga phindulo.

$800 + 80 + 5 = 885$

$800 + 50 + 4 = 854$

$800 + 40 + 5 = 845$

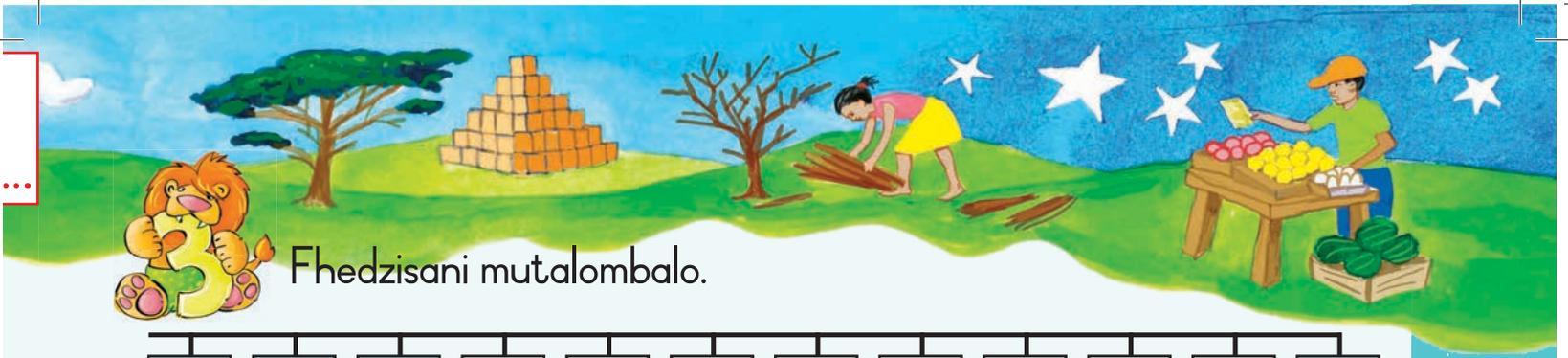


Nwalani f'hungombalo ni tevhedze nga phindulo.

800 + 50 + 2 =

800 + 90 + 7 =

800 + 3 =



Fhedzisani mutalombalo.

889	890	891									900
-----	-----	-----	--	--	--	--	--	--	--	--	-----

Mpheni nomboro dzotlhe dzi re tshukhu kha 894. _____

Mpheni nomboro dzotlhe dzi re khulwane kha 894. _____



Dzhenisani < kana > =

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



Padulani nomboro yanu.

- a. Fhatani nomboro inwe na inwe nga magarata anu.
 b. Nwalani velu (ndeme) ya didzhiti inwe na inwe. Zwino itani hezwi: Padulani nomboro yanu.

890	
889	
802	
855	
840	

Tsumbo: 876

800
70
6
876

876 $800 + 70 + 6$



Nwalani madzina a nomboro.

889	
825	
803	
830	
899	



Teacher: _____
 Sign: _____
 Date: _____

102a

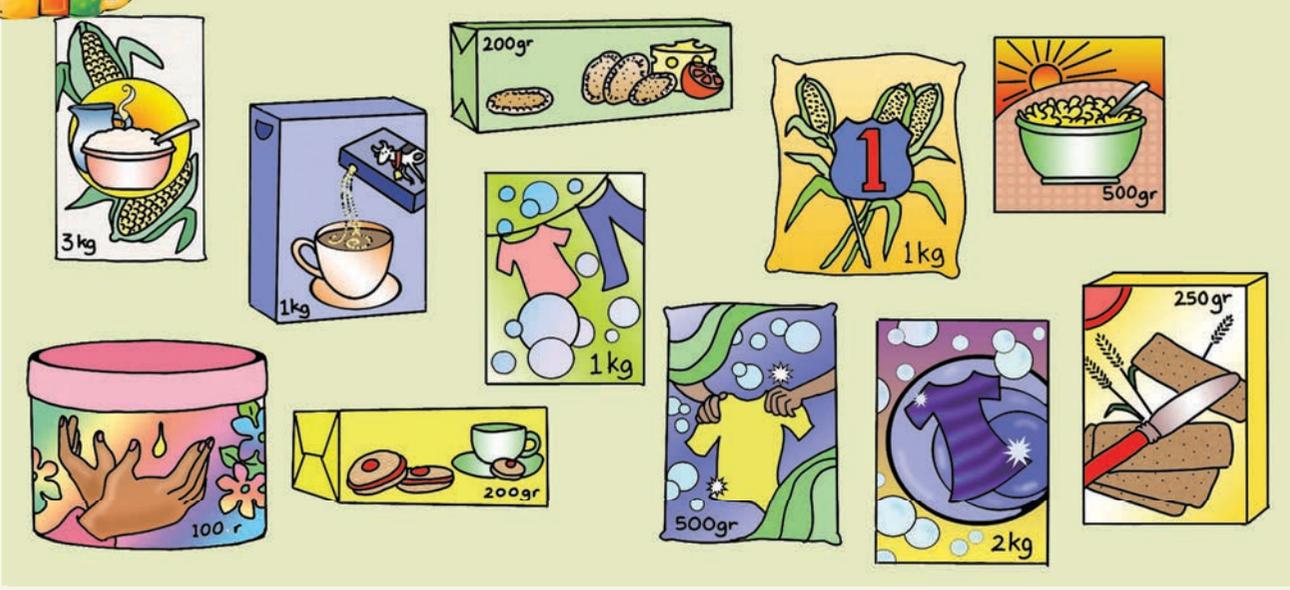
Deithi:

Ukala zwithu

Themo ya 4



Lavhelesani zwifanyiso zwi tevhelaho ni f'hindule mbudziso.



- a. Vhukhopfu ha u kuvha ha 1 kg hu leluwa kana hu lemela u f'hira ha 2 kg?

- b. Hu leluwesa tshif'hio: Siriji ya mukapu ya 500 g kana mabesikitsi a 200 g?

- c. Hu lemelesa tshif'hio: Khirimu ya lukanda ya 100 g kana phakhethe ya 1 kg ya tshidammba?



Rothe ro tangana ri lemela vhugai?

Nhe ndi lemela 25 kg, khonani yanga 29 kg ngeno mukomana wanga a tshi lemela 45 kg.



Zwibveledzwa izwi zwothe zwi lemela vhugai?

Tshibveledzwa tsha u thoma tshi lemela 1 kg 500 g, tshavhuhili 3 kg 500 g ngeno tsha u fhedza tshi tshi lemela 2 kg 500 g.





Lavhelesani zwifanyiso zwi tevhelaho ni fhindule mbudziso.



Ndi nga nwalisa hani 3,5 kg nga dzikhilogireme na dzigireme?



Fhedzisani thebulu.

Mudededzi wanu vha do ni fha zwithu zwi tanu zwine na nga sedza. Anganyelani zwileme zwazwo ni kone u zwi ela.

Tshithu	Nyanganyelo	Muelo	Phambano vhukati ha nyanganyelo na muelo



Zwibveledzwa zwi lemela vhugai zwothe?

Tshibveledzwa tsha u thoma tshi lemela 2 kg 500 g, tsha vhuvhili 1 kg 500 g ngeno tsha u fhedza tshi tshi lemela 3 kg 500 g.



Teacher: _____

Sign: _____

Date: _____

Khari kale hafhu

Themo ya 4

Tshileme ndi tshikalo tsha vhunzhi ha zwitshatshaka kana metha ngomu tshithuni. Arali izwi zwithu zwo dalesa, zwi a konḁa u sudzulusa itsho tshithu.

Ndeme ndi mpimo wa maanḁa a giravithi a no khou kokodzela fhasi metha. Giravithi a si nnzhi riwedzini lune zwithu zwa lemela zwiḁuku.

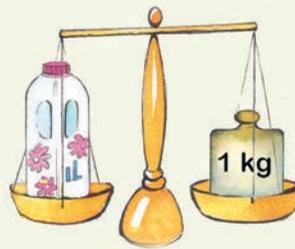
Fhano shangoni ri shumisa zwikalo zwi no fana kha tshileme na ndeme. Ri kala tshileme nga khilogreme na gireme.

Zwikalo zwo fhambananaho

Ri shumisa tshaka dzo fhambananaho dza zwikalo kha u ela tshileme na ndeme.

Ri ela tshileme nga tshikalotshilinganyisi (tsha balantsi) na ndeme nga tshikalo tsha tshipiriingi.

Litha ya maḁi i na tshileme tsha 1 kg.

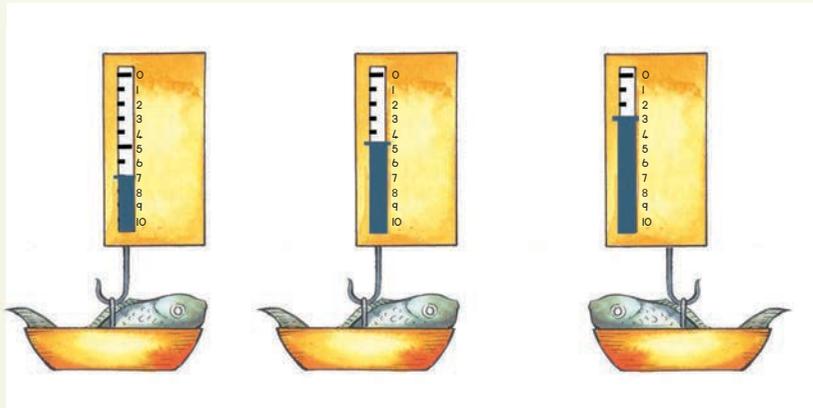


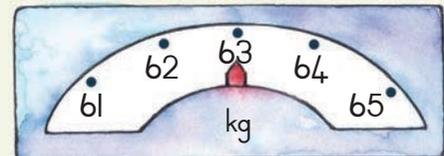
Khovhe i na tshileme tsha 3 kg.

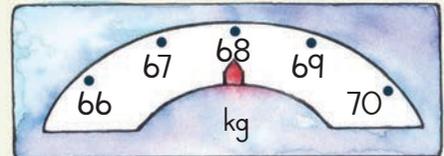


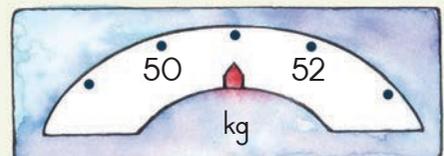
Wanani zwileme zwavho.

Nwalani tshileme nga kg dze dza sumbedzwa kha tshirwe na tshirwe tsha zwikalo izwi zwa tshipirringi.







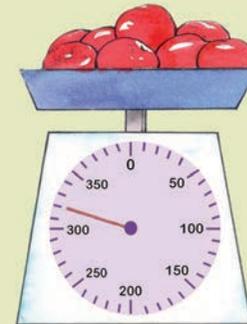




Ri shumisa dzigireme kha u kala ndeme ya zwithu zwi re zwiṭuku kana zwi no leluwa khathihi na u ela furakhisheni dza khilogreme.

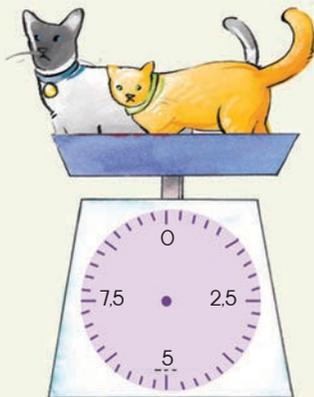
$$1\ 000\ \text{g} = 1\ \text{kg}$$

Kha tshikalo itshi tsha tshipirringi, mutalo muṛwe na muṛwe muṭuku ndi gireme dza 10. Maṭamaṭisi a lemela gireme dza 320.

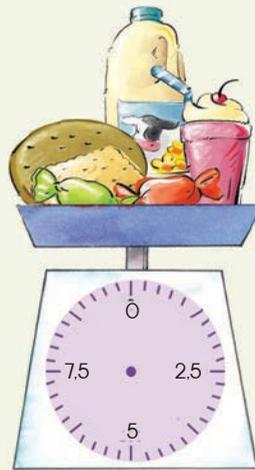


Zwilemela vhugai?

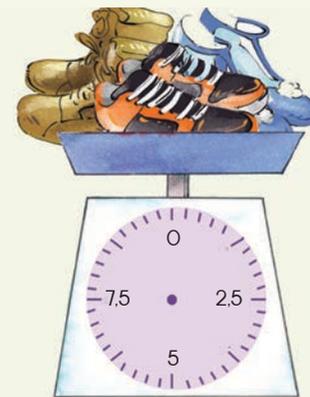
Olani hune musevhe wa tshikalo wa tea u sumba tshifhinga tshotḥe.



7 kg



4 kg



6 kg



Itani khilogireme.

Tanganyani ni ite 1 kg (1 000 g).

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



Nomboro 900 u swika kha 1 000

Themo ya 4



Vhalani ni riwale.

- a. Vhalani u bva kha 900 u swika kha 1000.
Bulani nomboro musu ni tshi khou ralo u vhala.

900



901	903							910
							919	
		943				948		
981								
991							999	

- b. Nwalani nomboro dzi no khou tshela kha giridi i re afho ntsha.
c. Nwalani nomboro dza 10 dzi no tevhela 900.

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

- d. Nwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi2.

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

- e. Nwalani nomboro dzothe dzi re kha phetheni ya dzi2 u bva kha 945 u swika kha 967.

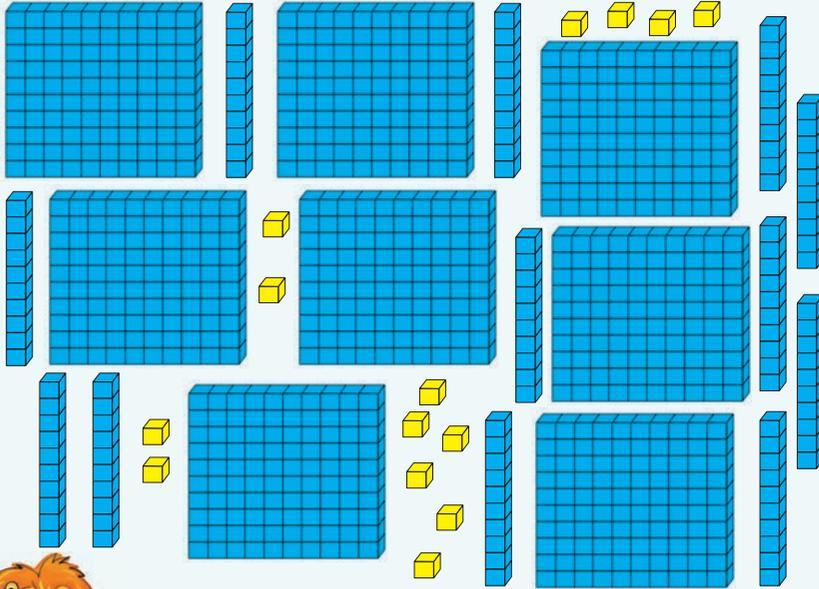
945; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 967

- f. Nwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi5.

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



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

950			953				957	958		
							956	961	966	
					903	906	909			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u swika kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

936, 933, 935, 931, 937		
978, 907, 970, 917, 971		



Nwalani zwi tevhelaho nga maipfi.

695	
-----	--



Teacher: _____

Sign: _____

Date: _____

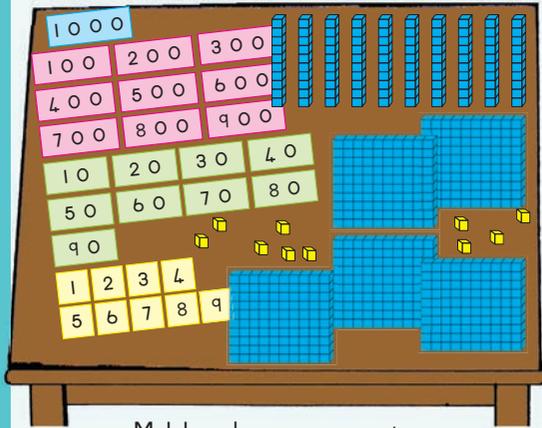
104

Deithi:

Nomboro dzinwe

hafhu 900 u swika kha 1 000

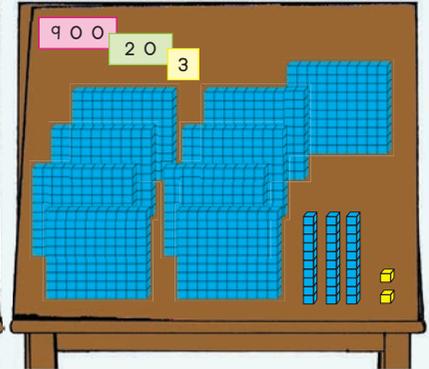
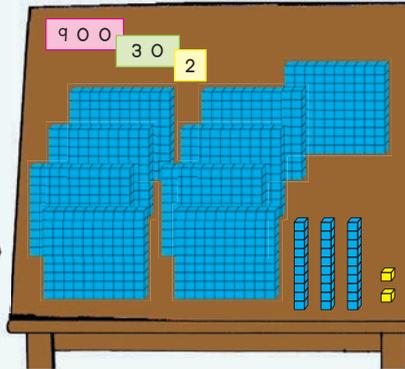
Themo ya 4



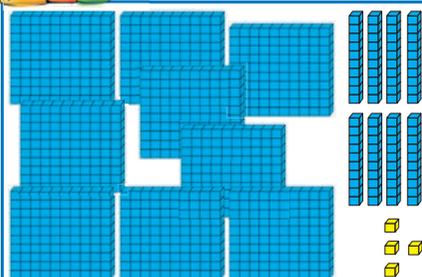
Mulalo o vha e na magarata a vhuimo ha nomboro na zwiwuloko zwa beisi ya fumi zwi tevhelaho.

Mudededzi vho humbela Mulalo uri a sumbedze 932 nga magarata awe na zwiwuloko.

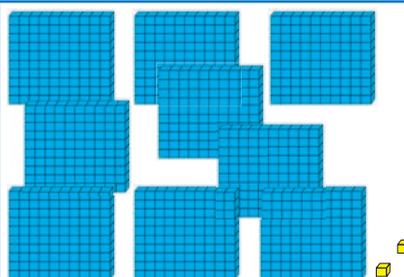
Hezwi ndi zwe Gugu a sumbedza zwone. O khakha ngafhi?



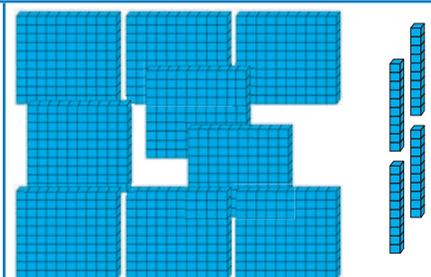
Nwalani fhungo la nomboro ni tevhedze nga phindulo.



$$900 + 80 + 4 = 984$$



--	--



--	--



Nwalani fhungombalo ni tevhedze nga phindulo.

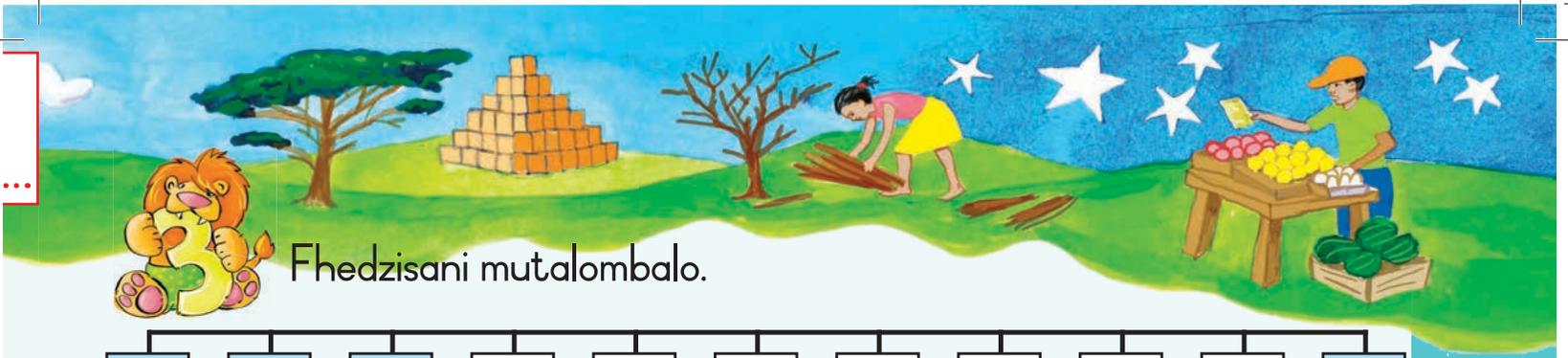
900	90	9
-----	----	---

$$900 + 90 + 9$$

=

900	20
-----	----

900	8
-----	---



Fhedzisani mutalombalo.

989	990	991								999
-----	-----	-----	--	--	--	--	--	--	--	-----

Mpheni nomboro dzothe dzi re tshukhu kha 995. _____

Mpheni nomboro dzothe dzi re khulwane kha 995. _____



Dzhenisani < kana > =

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



Padulani nomboro yanu.

- a. Fhatani nomboro inwe na inwe nga magarata anu.
 b. Nwalani ve(u) (ndeme) ya didzhiti inwe na inwe. Zwino itani hezwi: Padulani nomboro yanu.

922	
959	
980	
907	
931	

Tsumbo: 984

900
80
4
984

984 $900 + 80 + 4$



Nwalani madzina a nomboro.

976	
905	
950	
821	
909	



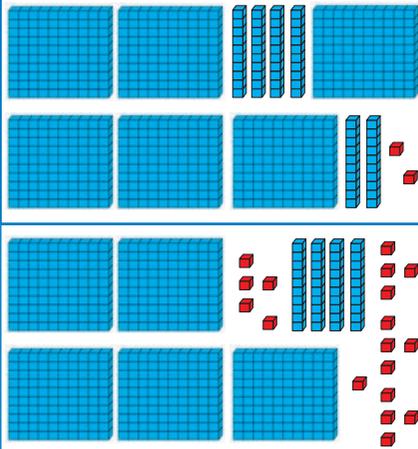
Teacher: _____
 Sign: _____
 Date: _____

Mutanganyo na mutuso u swika kha 999

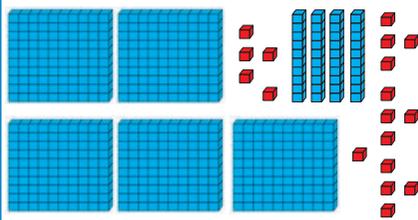
Themo ya 4



Nwalani f'hungombalo la inwe na inwe.



Talutshedzani uri no vhalisani hani zwi buḽoko.



Talutshedzani uri no vhalisani hani zwi buḽoko.



Shumisani tsumbo uri i ni dededze.

50	50	nyingakavhili (davhulu) ya 50 ndi 100	300	300	
200	200		3	3	



Shumisani nyingakavhili dza tsinisa kha u saukanya zwi tevhelaho. Shumisani tsumbo uri i ni dededze.

a. $43 + 44 =$	U inga kavhili $43 + 1$	$43 + 43 + 1 = 87$
b. $81 + 41 =$		
c. $40 + 41 =$		
d. $66 + 67 =$		



Shumisani nyingakavhili dza tsinisa
kha u saukanya zwi tevhelaho.
Shumisani tsumbo uri i ni dededze.

a. U inga kavhili 340
 $= 340 + 340$
 $=$ U inga kavhili 340
 $= 300 + 300 + 40 + 40$
 $= 600 + 80$
 $= 680$

b. $340 + 341$
 $=$ U inga kavhili $340 + 1$
 $= 300 + 300 + 40 + 40 + 1$
 $= 600 + 80 + 1$
 $= 681$

c. $470 + 470$

d. $461 + 462$



Thasululani zwi tevhelaho:



Vhana vha Gireidi ya 2 vho kuvhanganya mimavhulu ya 360.

Vhana vha Gireidi ya 3 vho kuvhanganya mimavhulu i re fhasi kha ya vha Gireidi ya 2 nga 216.

Vhana vha Gireidi ya 3 vha na mimavhulu mingana?

Teacher: _____
 Sign: _____
 Date: _____

Hayani

Themo ya 4



Duvha la u baka.

Makhadzi Vho Masindi vha baka vhurotho ovenini.

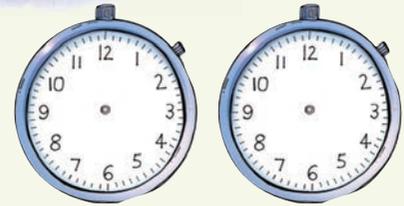
Sumbedzani zwifhinga kha watshi idzi.



Vha dzhenisa vhurotho nga themo ya u bva kha awara ya 4.

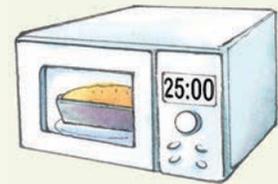
Vha bvisa vhurotho nga minete mitanu u bva kha awara ya rathi.

Vhurotho vhu dzhia tshifhinga tshingafhani uri vhu vhibve? _____



Mme a Ann vha shumisa oveni ya maikhiroweivi. I a t̄avhanya nga maanda.

Zwino ndi 16:30. Lavhelesani tshifhinga tsha u bika tshe tsha reiwa kha watshi ya oveni ya maikhiroweivi.



Vhurotho vhu do vhibva nga tshifhinga? _____

Oveni ya mikhiroweivi i t̄avhanya lungafhani u fhira ila inwe? _____ Nga minete ya.



Mishumo ya nga matsheloni.



Nga matsheloni a Mugivhela Mulanga na Maduvha vha thusa mme avho hayani. Mushumo muñwe na muñwe u dzhia tshifhinga tshingafhani?



	U thoma	U fhedza	Tshifhinga tshingafhani?
U bika vhuragane	6:15	6:40	
U t̄anzwa zwigodelo	7:20	8:05	
U kunakisa khishi	8:20	9:15	
U kunakisa bafurumu	10:00	10:25	
U kunakisa kamara dza u edela	11:30	12:15	



U sheledza ngade.

Hosiphaiphi i nga kona u shumisa maḁi a litha dza 30 nga minete wa !!

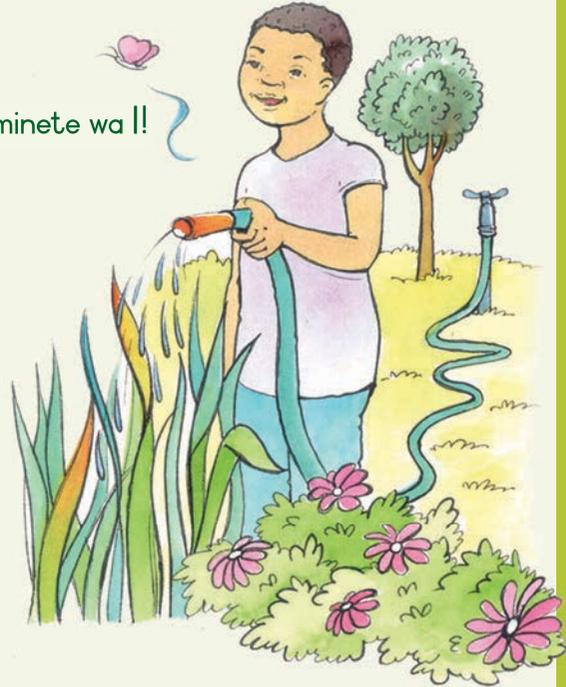
Hosiphaiphi i nga kona u shumisa maḁi a litha nngana nga:

minete ya 2 ndi litha dza _____

minete ya $2\frac{1}{2}$ ndi litha dza _____

minete ya 5 ndi litha dza _____

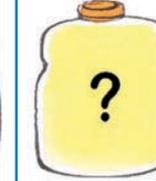
minete ya 10 ndi litha dza _____



U bika ḁama ya khere.

Khotsi a Babu vha bika na u rengisa ḁama ya khere. Kha vhege nthihi, vha shumisa 750ml ya mapfura (oili).

Vha a ḁwala uri vho shumisa oili nngafhani ḁuvha linwe na linwe.

Mus	<u>L</u> avhuv	<u>L</u> avhur	<u>L</u> avhun	<u>L</u> avhut	Mug	Sun
						

- Vha shumisa ml nngana dza mapfura u bva nga Musumbuluwo u swika nga Mugivhela _____ ml.
- Vha shumisa ml nngana dza mapfura nga Swondaha _____ ml.
- Boḁelo lithihi la 750ml la mapfura li ḁura R18,50
Maboḁelo a 4 a ḁura vhugai? _____.



Tolani!
Vhambedzani!
Lulamisani



Teacher: _____
Sign: _____
Date: _____

Ushuma nga tshelede

Themo ya 4



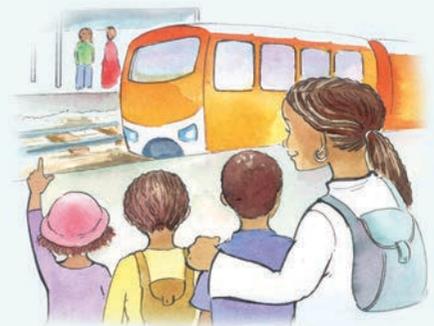
Vhalani khoini na dzinoutu.

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



Lwendo nga tshidimela.

- Vho Khethani na vhana vhavho vha 3 vha namela tshidimela.
- Vhahulwane na vhana vha badela u fana.
- Vho Khethani vha badela nga hedzi dzinoutu (tshelede ya bammбини).



Tolani!
Vhambedzani!
Lulamisani

Vha wana tshintshi ya R30.

Mutengo wa thikhithi ya I ndi vhugai? Itani thiki (✓) kha phindulo yone:

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



Tshiphaza tsha Sandile.

Sandile u n̄wala tshelede ine a ita kha thebulu. U thoma nga u anganyela, a kona u rekanya uri hu na mbuelo ya vhugai nga d̄uvha.

Mbuelo ndi tshelede ine ra i hola kana ra i t̄anganedza. Thusani Sandile uri a fhedzise murekanyo wawe. N̄walani phindulo dzaṅu kha thebulu:

		Anganyelani	Thanganyelo
Musumbuluwo	$R50 + R75 + R200 + R350 + R25$		
Lāvhuvhili	$R25 + R175 + R50 + R320 + R90$		
Lāvhuraru	$R50 + R75 + R200 + R350 + R25$		
Lāvhuṅa	$R120 + R55 + R180 + R245 + R25$		
Lāvhuṭanu	$R60 + R150 + R140 + R200 + R125$		
Mugivhela	$R50 + R75 + R200 + R350 + R25$		
Swondaha			



Wanani uri tshintshi ndi vhugai.

U itela u wana tshintshi, ni nga t̄anganya u thoma kha uri zwithu zwi d̄ura vhugai, ha tevhela uri ndi vhugai ine na d̄o badela yone.

Tsumbo: $+ 50c$ $+ R2$ $+ R10$ $+ R100$

Maḍuvha u renga zwiliwa zwa R87,50
U badela nga noutu ya R200.
Tshintshi yawe ndi vhugai?

R87,50 R88 R90 R100 R200

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

Shumisani mitalombalo uri i ni thuse u wana tshintshi.

Mutengo: R229,40

Ni badela nga:



Mutengo: R305,60

Ni badela nga:



Mutanganyo na mutuso u swika kha 999 hafhu

Themo ya 4



Kha ri tandulule thaidzo.

Gugu o kuvhanganya zwiṭikara zwa 234.
Mandla a mu fha zwiṭikara zwa 501 nga ntḥa.
U na zwiṭikara zwingana zwino?

Mbudziso ndi ifhio?
Hu na zwiṭikara zwingana zwino?

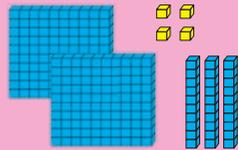
Iphi li re khii ndi lifhio? zwinzhi

Nomboro ndi ifhio? 234 na 501

Kha ri zwi sumbedze nga zwiḅuloko zwashu zwa beisi ya mahumi.



Hezwi ndi zwe Lisa a ita kha u tandulula thaidzo ya Gugu.



Hezwi ndi zwe Aakar a ita.
. O ita nyolo.



Kuvhetshele kwa Lisa kwa zwiḅuloko zwa mahumi zwawe ku fana ngafhi na nyolo ya Aakar.
Shumisani nomboro i re kha thaidzo kha u thandulula thaidzo iyi ni tshi shumisa ndila (ngona) dze na guda u swika zwino.

Ndila ya 1

Ndila ya 2



Mishumo ya nga mats Sheloni.

Thembi u kuvhanganya zwithu a tshi itela thandela ya tshikolo ya u vusuludza malatwa. O kuvhanganya mabodelo a pulasitiki a 624 na zwi kotikoti zwa 268. O kuvhanganya zwithu zwingana?

Mbudziso ndi ifhio? _____

Nomboro ndi dzifhio?	Ipfi li re khii ndi lifhio? Itani thiki kha phindulo yone. Ipfi li re khii li ri vhudza uri ri: <div style="display: flex; justify-content: space-around; align-items: center;"> Tanganye Tuse </div>
Itani nyolo.	Shumisani ndila yanu kha u tandulula thaidzo.

Vhengeleni hu na phakhethe dza swigiri dza 900. Musi ho rengiswa dzinwe, hu sala phakhethe dza swigiri dza 659? Ho rengiswa phakhethe nngana?

Mbudziso ndi ifhio? _____

Nomboro ndi dzifhio?	Ipfi li re khii ndi lifhio? Itani thiki kha phindulo yone. Ipfi li re khii li ri vhudza uri ri: <div style="display: flex; justify-content: space-around; align-items: center;"> Tanganye Tuse </div>
Itani nyolo.	Shumisani ndila yanu kha u tandulula thaidzo.



Mutanganyo na mutuso u swika kha 999 hafhu

Lavhelesani nyolo ni i talutshedze.



Fhedzisani zwi tevhelaho:

a. $223 + 223 =$ _____.

b. $160 + 160 =$ _____.

c. $115 + 115 =$ _____.

d. $315 + 315 =$ _____.

e. $117 + 117 =$ _____.

f. $450 + 450 =$ _____.

g. $112 +$ _____ $= 224$.

h. $116 +$ _____ $= 232$.



Nwalani nomboro.

a. 12 nga ntaha ha 523 ndi _____.

e. 537 ho tuswa 29 ndi _____.

b. 15 nga ntaha ha 540 ndi _____.

f. Hafu ya 300 ndi _____.

c. 20 nga ntaha ha 576 ndi _____.

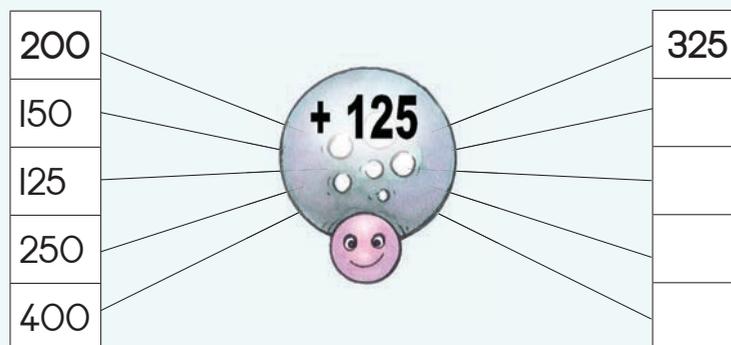
g. Davhulu ya 420 ndi _____.

d. 60 nga ntaha ha 590 ndi _____.

h. Hafu ya 600 ndi _____.



Tanganyani 125





Ndi mini zwi no vhumba 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. $\square + 30 + 900 = 1000$

Wanani mita ya nomboro dza + na -

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



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

Tolani!
Vhambedzani!
Lulamisani

Tanganyani na utusa mahumi na mađana.

a. Mahumi na mađana

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

b. Mahumi othe (Nyandiso dza 10)

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

Thasululani zwi tevhelaho:

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



110

Deithi:

Phazili (khanganyisa) dza mielo

Themo ya 4



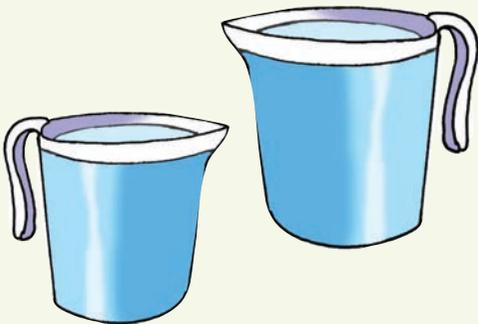
Wanani nyalo.

Ri nga shumisa zwi \square zwingana zwa saizi iyi kha u vala tsho \square the inwe na inwe ya nyolo idzi? Shumisani ndila yanu ya u wana phindulo. Ni nga kha di ola zwi \square wea kha zwifanyiso uri zwi ni thuse u wana phindulo.

<p>a.</p> <p>_____</p>	<p>b.</p> <p>_____</p>
<p>c.</p> <p>_____</p>	<p>d.</p> <p>_____</p>



Thasululani thai.



Ni khou \square oda u pima \square litha dza 4 kokotolo.

Ni na zwifaredzi zwivhili fhedzi: tshithihi dzi \square dala nga \square litha dza 3 ngeno tshinwe tshi tshi \square dala nga \square litha dza 5. Ni do tou zwi itisa hani?

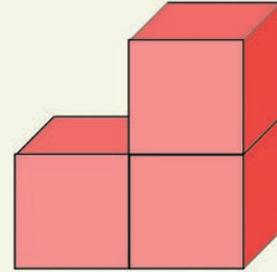
Lusevhedi: hu na ndila dzi no swika mbili.



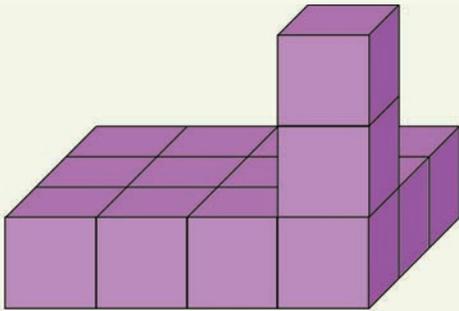
Ni kona u vhona mini?

Zwibuloko zwiraru zwo nambatelana u fana na tshifanyisoni itshi.

Arali na nga imisa zwibuloko zwo nambatelanaho, ndi zwikwea zwingana zwine na kona u zwi vhana nga nnda? _____



Vhalani khiubu.



Ndi khiubu nngana dzi dze dza vhumba tshivhumbeo itshi?



Khaedu: thai ya tshifhinga

Ni na watshi mbili dza mutavha.

Nthihi i sumbedza minete ya 7 kwakwakwa ngeno inwe i tshi sumbedza minete ya 11 kwakwakwa.

Ni nga shunisa watshi ya mutavha nga ndilade u itela u wana uri minete ya 15 yo fhira lini kwakwakwa?

Tolani!
Vhambedzani!
Lulamisani



Phetheni dza nomboro: mahumi u swika kha 900

Themo ya 4

Kha ri vhale nga mahumi u bva kha 810 u swika kha 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



Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

Dzo tangedzelwaho nga muvhala **mutswuku**: U vhalela nga ____.

Ñwalani phetheni: _____

Dzo tangedzelwaho nga muvhala **mudala**: U vhalela nga _____.

Ñwalani phetheni: _____



Rekanyani.

a. $874 + 10 + 10 + 10 = \underline{\quad}$

b. $858 - 10 - 10 - 10 - 10 = \underline{\quad}$

c. $845 + 10 + 10 = \underline{\quad}$

d. $858 - 10 - 10 - 10 = \underline{\quad}$

e. $836 + 10 = \underline{\quad}$

f. $866 - 10 - 10 = \underline{\quad}$

g. $892 + 10 + 10 + 10 = \underline{\quad}$

h. $87 - 10 - 10 - 10 = \underline{\quad}$

i. $880 + 10 + 10 = \underline{\quad}$

j. $855 - 10 = \underline{\quad}$



Hu na zwitanda zwingana?

Hu na zwitanda  zwa fumi kha nanda nthihi. .

1		= zwitanda zwa _____	10		= zwitanda zwa _____
2		= zwitanda zwa _____	20		= zwitanda zwa _____
3		= zwitanda zwa _____	30		= zwitanda zwa _____
4		= zwitanda zwa _____	40		= zwitanda zwa _____
5		= zwitanda zwa _____	50		= zwitanda zwa _____
6		= zwitanda zwa _____	60		= zwitanda zwa _____
7		= zwitanda zwa _____	70		= zwitanda zwa _____
8		= zwitanda zwa _____	80		= zwitanda zwa _____
9		= zwitanda zwa _____	90		= zwitanda zwa _____
10		= zwitanda zwa _____	100		= zwitanda zwa _____



Rou ya zwitanda.



Hu na nanda dza fumi dza zwitanda kha rou nthihi = zwitanda zwa 100

Rou ya 1 ya nanda dza 100 = zwitanda zwa 100

$$10 \times 10 = 100$$

Rou dza 2 dza nanda dza 10 = zwitanda zwa _____

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

Rou dza 4 dza nanda dza 10 = zwitanda zwa _____

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

Rou dza 10 dza nanda dza 10 = zwitanda zwa _____

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



Hu na nanda nngana?

zwitanda zwa 700 zwi ita nanda dza _____.

zwitanda zwa 900 zwi ita nanda dza _____.

zwitanda zwa 1 000 zwi ita nanda dza _____.



Teacher: _____
 Sign: _____
 Date: _____

Sendedzani kha IO ya tsinisa

Themo ya 4

Kha bammbiri la u shumela lo fhiraho ro ita zwa u sendedza tsini nomboro. Lavhelesani mutalombalo ni tlatshedze khonani yanu uri ni do sendedza hani nomboro tsini fumi.



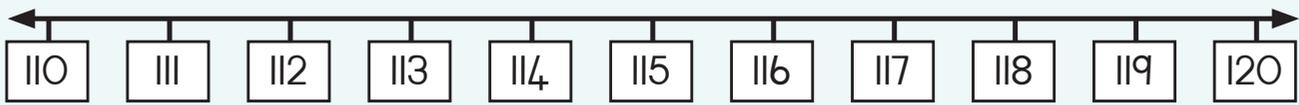
Ni elelwe uri ni tea u sedza dziyuniti musu ni tshi sendedza tsini na IO ya tsinisa.



Sendedzani tsini na IO ya tsinisa.

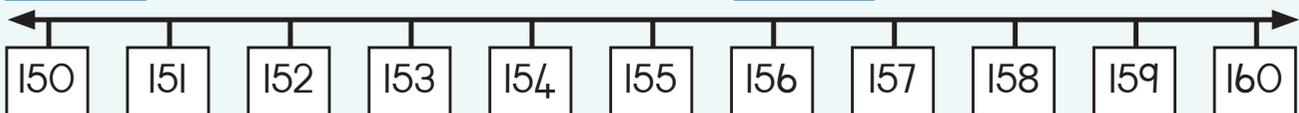
114 yo sendedzwa tsini ndi? _____

117 yo sendedzwa tsini ndi? _____



159 yo sendedzwa tsini ndi? _____

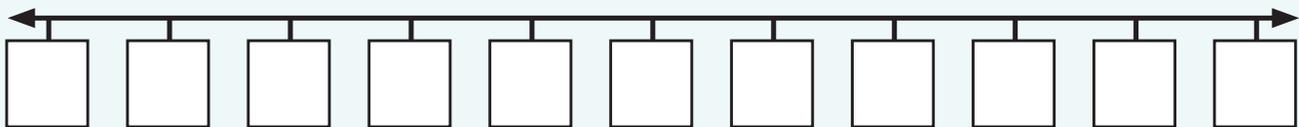
151 yo sendedzwa tsini ndi? _____



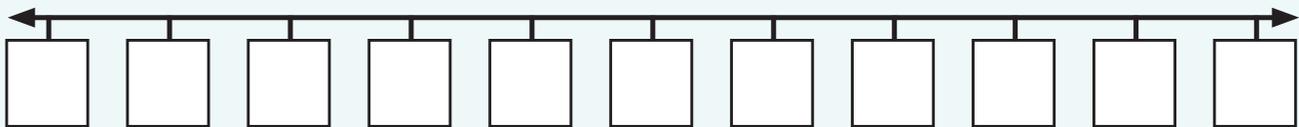
Sendedzani tsini na IO ya tsinisa.

Olani mutalombalo wa inwi mune.

195



945



Muandiso na mukovho: u swika kha 100

Themo ya 4



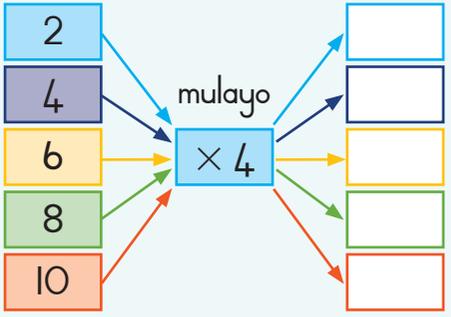
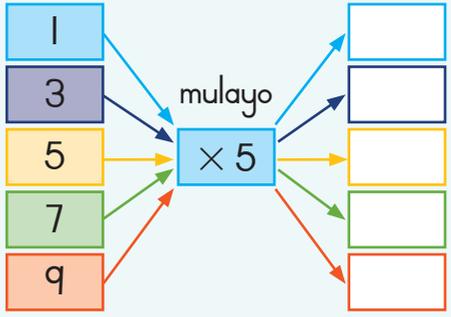
Fhedzisani nyolo ya muelo.

nomboronzheniswa

nomboromviswa

nomboronzheniswa

nomboromviswa



Fhedzisani thebulu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
5										



Rekanyani:

12×5 $= (10 + 2) \times 5$ $= 50 + 10$ $= 60$	11×5
13×5 $= (10 + 3) \times 5$ $= 50 + 15$ $= 50 + 10 + 5$ $= 65$	13×5



$$45 \div 5$$

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

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

$$= 8 + 1$$

$$= 9$$

$$75 \div 5$$

$$48 \div 5$$

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

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

$$= 8 + 1 \text{ ha sala } 3$$

$$= 9 \text{ ha sala } 3$$

$$13 \div 5$$



Tandululani mbalo dzi tevhelaho:

Ngade ya miroho i na rou dza 14 dza zwimela.

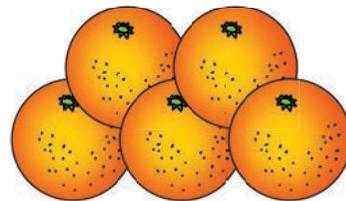
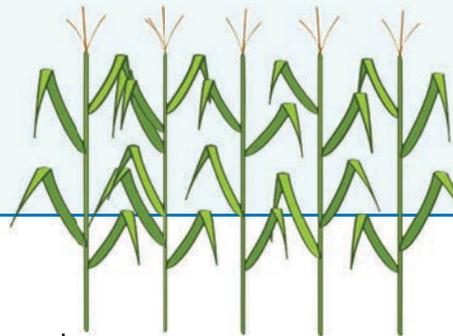
Rou inwe na inwe i na tshivhalo tshi no fana tsha zwimela.

Arali tshanganyelo ya zwimela i 70, hu na zwimela zwingana kha rou inwe na inwe?

David u rengisa zwikedzi zwi re na maswiri mațanu kha tshinwe na tshinwe.

U na maswiri a 85.

A nga d̄adza zwikedzi zwingana.



114

Deithi:

Phetheni dza nomboro: ṭhanu u swika kha 1 000

Themo ya 4

Kha ri vhale nga ṭhanu u thoma kha 805 u swika kha 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



Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

Dzo tangedzelwaho nga muvhala wa lutombo :	U vhalela nga _____.
U vhalela nga	
Dzo tangedzelwaho nga muvhala phephulu :	U vhalela nga _____.
U vhalela nga	



Rekanyani.

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. $853 - 5 - 5 - 5 =$ _____



Bobo ya nomboro 901 u swika kha 1 000.

901		903	904	905	906		908	909	910
911		913	914	915	916		918	919	920
921		923	924	925	926		928	929	930
931		933	934	935	936		938	939	940
941		943	944	945	946		948	949	950
951		953	954	955	956		958	959	960
961		963	964	965	966		968	969	990
971		973	974	975	976		978	979	990
981		983	984	985	986		988	989	990
991		993	994	995	996		998	999	1000



Nwalani nomboro dzi no khou t̄ahela.

Phambano vhukati ha nomboro dala na dza phephulu ndi ifhio kha rou nthihi?



Fhedzisani phetheni.

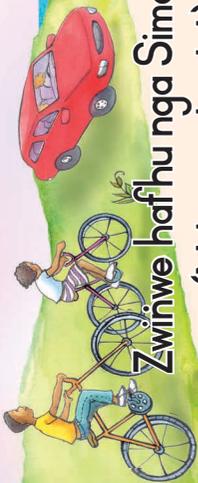
No kona u vhona phetheni?	I t̄alutshedzeni
963, 968, 973, 978, 983, _____	
944, 949, 954, 959, 964, _____	
921, 926, 931, 936, 941, _____	
956, 951, 946, 941, 936, _____	
982, 987, 992, 997, _____	
927, 922, 917, 912, 907, _____	



Teacher: _____

Sign: _____

Date: _____



Zwinwe hafhu nga Simethiri (Ndinganahuhili)



Tshivhonini.

Tambani na murwe nga invi ni tshi shumisa sethe

dza phaziji dza dzit'haili (zwpida zwa 14) zwi no bva kha Tshigeniwa 10.

Mutambi murwe na murwe u na hafu ya zwpida (zwpida zwa 7) zwa phazwiji ya dzit'haili.

Zwpida a zwo ngo tea u fana.

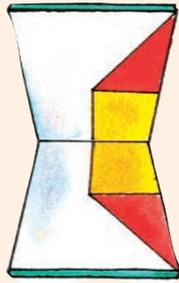
Talani mutaladzi vhekati ha tshipida tsha bambiri. U go vha wone "mutalo wa murunzi".

Mutambi wa u thoma u vhea tshithihi tsha zwpida zwawe tsini na mutalo.

Zwino mutambi wa vuhili u vhea murunzi wa itshi tshipida kha luinwe lurumbu lwa mutaladzi.

Tshi tea u kwama mutaladzi kana tshinwe tsha zwpida zwo no vhwaho.

Isani phanda u swika zwpida zwothe zwo no fhelela.

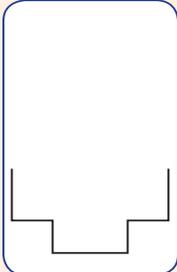
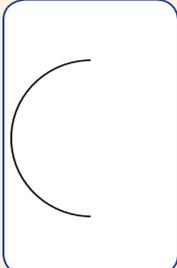
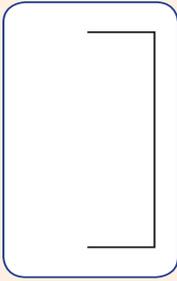
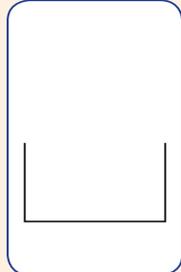
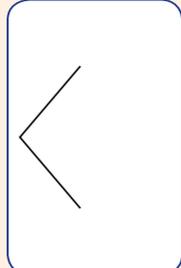
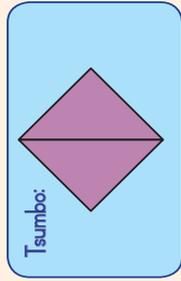


Dzibe:

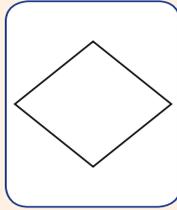
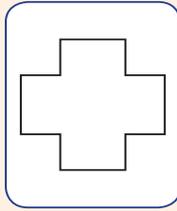
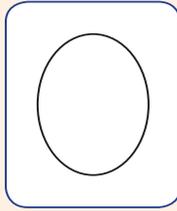
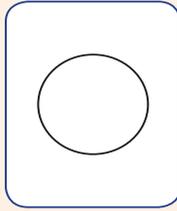
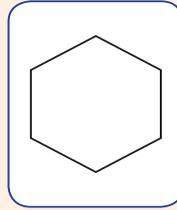
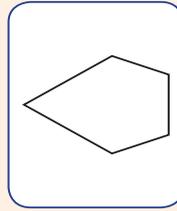
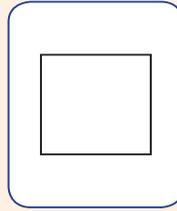
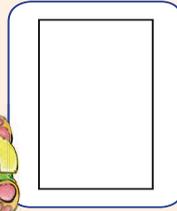


Olani luja luinwe lurumbu lwa tshivhumbeco.

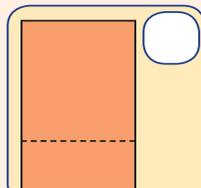
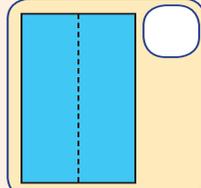
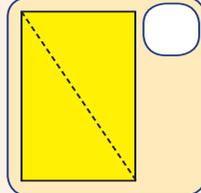
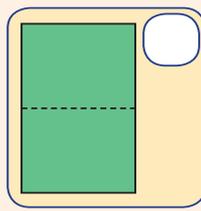
Sumbadzani mutaladzi wa semethiri.



Talani mutaladzi wa simethiri wa zwi tevhelelaho:



Itani thiki kha zwinwebeo zwi re na mitaladzi yone ya simethiri.



Teacher: _____
Sign: _____
Date: _____

Phetheni dza nomboro:
mbili u swika kha 900

Kha ri vhale nga t'hanu u bva kha 802 u swika kha 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

Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni if hio?

Dzo tangedzelwaho nga muvhala wa lutombo :	U vhalela nga _____.
Nivalani phetheni:	
Dzo tangedzelwaho nga muvhala mudala :	U vhalela nga _____.
Nivalani phetheni:	



Rekanyani.

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



Odo na ivini.

a. Itani (X) tsigni na nomboro dza odo na tsigni na nomboro dza (✓) ivini.

- 914 923 916 907 929 912 911 915
- 908 917 925 931 930 910 909 922 933

b. Fhindulani uri ivini kana odo.

- Na țanganya nomboro mbili dza odo. Ni wana nomboro ya _____.
- Na țanganya nomboro mbili dza ivini. Ni wana nomboro ya _____.
- Na țanganya nomboro t'haru dza odo. Ni wana nomboro ya _____.



U țavha miri.

Hei ndi inwe ndila ya u țavha miri ya 48 kha rou dzi no egdana.



Ri nga n'wala: $2 \times 24 = 48$ (rou dza 2 dza miri ya 24 = 48) kana $48 \div 2 = 24$ (miri ya 48 yo vhambela kha rou dza 2 dzi no lingana i ri fha miri ya 24 kha rou nthihi). Vhalani rou na miri zwi re tshifanyisoni tshiwe na tshiwe af'ho fhasi. Nwalani fhungombalo ja x na a ÷ ni tshi livhan'ya (metshiso).

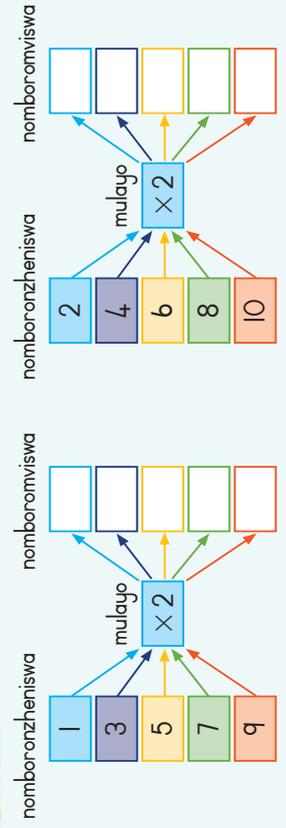
a.	\times _____ = _____	\div _____ = _____	
b.	\times _____ = _____	\div _____ = _____	
c.	\times _____ = _____	\div _____ = _____	
d.	Wanani inwe ndilavho ya u țavha miri ya 48 kha dzirou.	\times _____ = _____	\div _____ = _____
e.	Wanani inwe ndilavho ya u țavha miri ya 48 kha dzirou.	\times _____ = _____	\div _____ = _____

Teacher: _____
Sign: _____
Date: _____



Muandiso na mukovho: mbelimbili (dzimbili) u swika kha 100

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

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

Rekanyani:

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

Dele:

$46 \div 2$ $= (40 + 6) \div 2$ $= (40 \div 2) + (6 \div 2)$ $= 20 + 3$ $= 23$	74 ÷ 2
$47 \div 2$ $= (40 + 7) \div 2$ $= (40 \div 2) + (7 \div 2)$ $= 20 + 3$ ha sala 1 $= 23$ ha sala 1	75 ÷ 2



Teacher: _____
 Sign: _____
 Date: _____

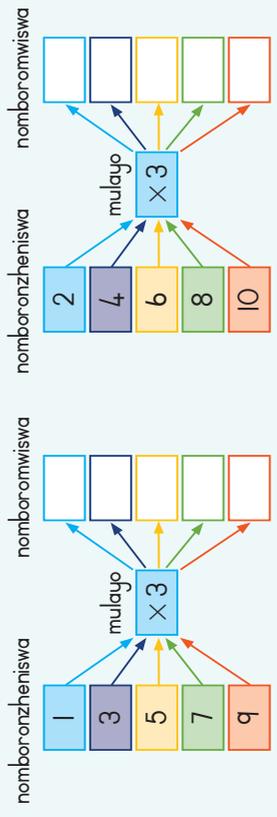
Tandulani mbalo dzi tevhelaho:

Ngade ya miroho i na rou dza 32 dza zwimela.
 Rou inwe na inwe i na zwimela zwa 2.
 Hu na zwimela zwingana ngadeni?
 Ngade ya miroho i na rou dza 40 dza zwimela.
 Rou inwe na inwe i na zwimela zwa tshvhlo tshi no lingana.
 Aradi hu na thanganyelo ya zwimela zwa 80, hu na zwimela zwingana kha rou inwe na inwe?

Dedhi: _____

Muandiso na mukovho: tharutharu (dziraru) u swika kha 100

Fhedzisani nyolo ya muelo.

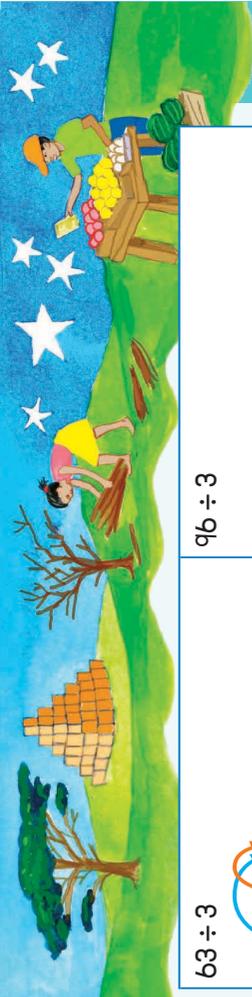


Fhedzisani thebulu i re afho fhasi:

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

Rekanyani:

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



$63 \div 3$ $= (60 + 3) \div 3$ $= (60 \div 3) + (3 \div 3)$ $= 20 + 1$ $= 21$	$96 \div 3$
$65 \div 3$ $= (60 + 5) \div 3$ $= (60 \div 3) + (5 \div 3)$ $= 20 + 1 \text{ ha sala } 2$ $= 21 \text{ ha sala } 2$	$98 \div 3$



Tandululani mbalo dzi tevhelaho:

Musiwa u na majegere a 30.
 A fhira a Jacob kafumi.
 Jacob u na majegere mangana?
 Ngade ya miroho i na rou dza 29 dza zwimela.
 Rou iriwe na iriwe i na zwimela zwa 3.
 Hu na zwimela zwingana ngadeni?

Teacher: _____
 Sign: _____
 Date: _____

Phetheni dza nomboro:

tharu u swika kha 1 000.

Kha ri vhale nga tharutharu (dziraru) u bva kha 803 u swika kha 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

Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

Dzo tangedzelwaho nga muvhala wa tshitolopana:	U vhalela nga _____.
Nwalani phetheni:	_____.
Dzo tangedzelwaho nga muvhala mudala:	U vhalela nga _____.
Nwalani phetheni:	_____.



Rekanyani.

a. $873 + 3 + 3 + 3 =$	b. $824 - 3 - 3 - 3 =$	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. $880 - 3 - 3 - 3 =$



Debiti

Phetheni dza nomboro:

tharu u swika kha 1 000.

Kha ri vhale nga tharutharu (dziraru) u bva kha 803 u swika kha 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

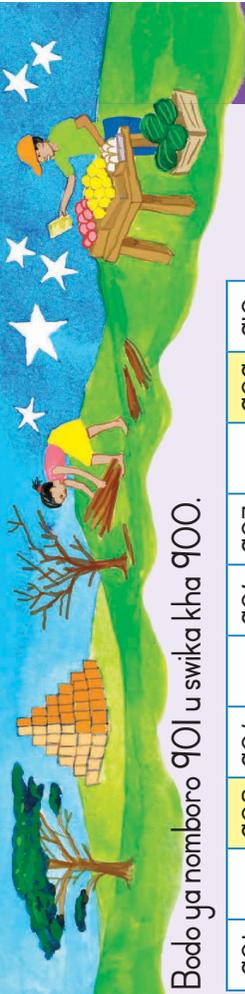
Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

Dzo tangedzelwaho nga muvhala wa tshitolopana:	U vhalela nga _____.
Nwalani phetheni:	_____.
Dzo tangedzelwaho nga muvhala mudala:	U vhalela nga _____.
Nwalani phetheni:	_____.



Rekanyani.

a. $873 + 3 + 3 + 3 =$	b. $824 - 3 - 3 - 3 =$	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 nomboro 901 u swika kha 900.

901	902	903	904	905	906	907	908	909	910
911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930
931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970
971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000



Nwalani nomboro dzi no khou tahela.

Khaletani zwiujoko zwi re na nomboro i no khou tahela nga muvhala mudala.

Khaletani zwiujoko zwitshena nga muvhala mutswuku. Ni kona u vhona phetheni ifhio?



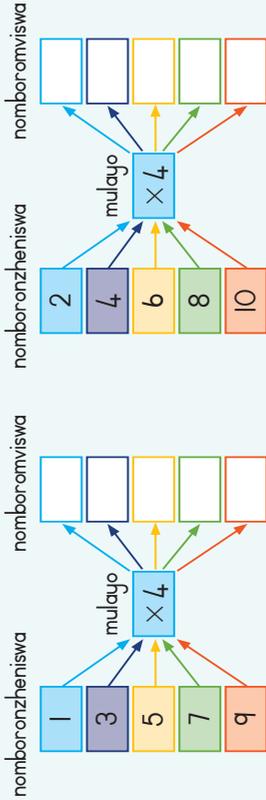
Fhedzisani phetheni.

a. Tanganyani raru dza 4 kha 981.	984, 987, 990, 993
b. Tanganyani raru dza 5 kha 973.	_____
c. Tusani raru dza 4 kha 975.	_____
d. Tusani raru dza 3 kha 947.	_____
e. Tanganyani raru dza 2 kha 932.	_____

Teacher:	_____
Sign:	_____
Date:	_____

Muandiso na mukovho:
dziina u swika kha 100

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
4										

Rekanyani:

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

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

$$11 \times 4$$

$$15 \times 4$$

Debiti:



$$48 \div 6$$

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

$$64 \div 4$$

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

$$49 \div 4$$



Tandululani mbalo dzi tevhelaho:

Mulaledzi u na majegere a 36.

U ja majegere a 4 dluvha linwe na linwe.

A nga ja majegere maguvha mangana?



Mulondo u na phakhethe dzi re na maswiri mana kha inwe na inwe.

U na maswiri a 88.

A nga kona u ddaza phakhethe nngana?



Teacher: _____
Sign: _____
Date: _____

Phetheni dza nomboro:
nngana (dziina) u swika kha 1 000

Kha ri vhale nga nngana u thoma kha 804 u swika kha 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

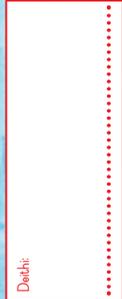
Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

Dzo tangedzelwaho nga muvhala muddala:	U vhalela nga _____.
Nwalani phetheni:	_____.
Dzo tangedzelwaho nga muvhala wa phephulu:	U vhalela nga _____.
Nwalani phetheni:	_____.



Nwalani phetheni:

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. $803 + 4 + 4 + 4 =$	j. $813 - 4 =$	i. $847 - 3 - 3 =$



Debit:

Bodo ya nomboro 901 u swika kha 1000.

901	902	903	904	905	906	907	908	909	910
911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930
931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970
971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000



Nwalani nomboro dzi no khou tshela.

Khalarani zwi boko zwi re na nomboro i no khou tshela nga muvhala muddala.

Khalarani zwi boko zwi tshena nga muvhala mutswuku. Ni kona u vhona phetheni ifhio?



Fhedzisani phetheni.

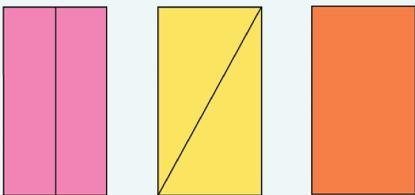
a. Tanganyani ina dza 4 kha 980.	984, 988, 992, 996
b. Tanganyani ina dza 5 kha 971.	_____
c. Tusani ina dza 4 kha 963.	_____
d. Tusani ina dza 3 kha 927.	_____
e. Tanganyani ina dza 2 kha 938.	_____

Teacher: _____
Sign: _____
Date: _____

Zwipida zwi no lingana zwa yothe

Hafu nthihi, nga ngila dzo fhambananaho dza u i tshea.

Gerani rekthiengele dzi tshi bva kha bambiri la muvhala (kha Tshigeriwa tsha II).



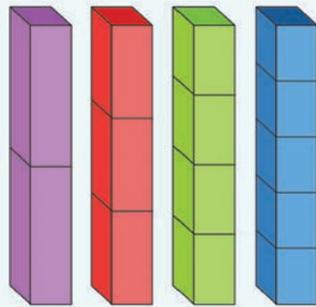
Wanani dziuwe ngila dzo fhambananaho dza u vhumba hafu nthihi.

1. Petani rekthiengele ya bambiri nga vhukati ni tshi tevheza vhulapfu. Gerani bambiri nga vhukati henefo he na peta hone. Zwipida izwi zwi a lingana. Tshiwe na tshinwe tshazwo tshi pfi ndi hafu nthihi ($\frac{1}{2}$) ya rekthiengele ya kale na kale (ya u thomani).
2. Petani rekthiengele ya bambiri nga vhukati ni tshi tevheza u rambalala. Gerani bambiri nga vhukati, henefo he na peta hone. Zwipida izwi zwi a lingana. Tshiwe na tshinwe tshazwo tshi pfi ndi hafu nthihi ya bambiri ja kale na kale (ja u thomani).
3. Hu na ngila ifhio iwe ya u fhandula bambiri ja bva zwipida zwi nhili zwi no lingana? Edzansi ni tshi shumisa tshigero na bambiri, ni kone uita mutalo wa zwitomathoma afho he na peta hone ni gere.



Zwipida zwi no lingana zwa tshothe hafu.

- Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 2 zwi lingandho, izwo zwipida ri zwi vhidza dzihafu.
- Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 3 zwi lingandho, izwo zwipida ri zwi vhidza zwararu.
- Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 4 zwi lingandho, izwo zwipida ri zwi vhidza dzikota kana zwaiya.
- Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 5 zwi lingandho, izwo zwipida ri zwi vhidza zwatshana.



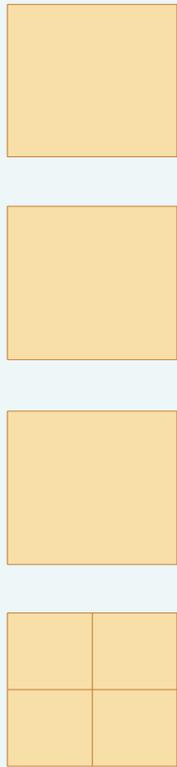
Sangwetshi dza tshiswiulo.

Thendo na khonani dzawe dza 3 vha a ita sendiwitshi nzhzi dza tshiswiulo.

Vha dzi tshea nga dzikota na zwaiya kana dzikota.

Hezwi: zwi amba uri vho dzi tshea dza bva zwipida zwa 4 zwi lingandho.

Inwe ngila asiya. Sumbadzani dziuwe ngila tharu dzine na nga zwi ita ngadzo.

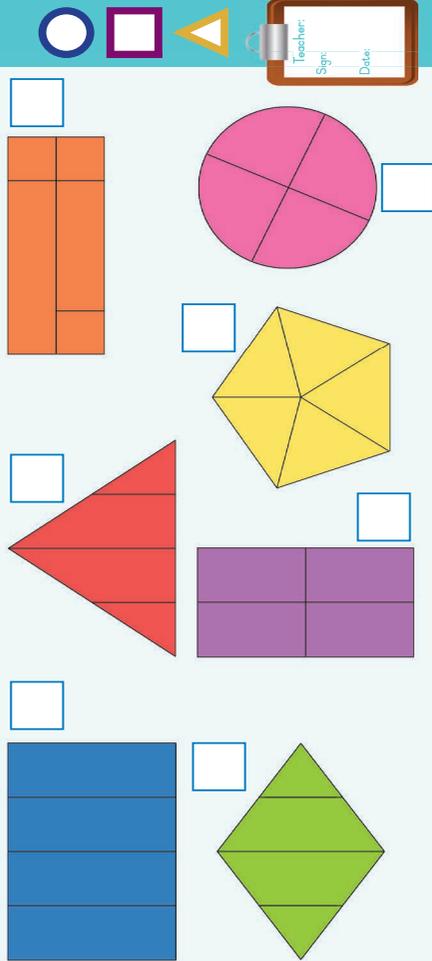


Tolani Vhambadzani Lulamisani



U kovha ha bva zwaiya.

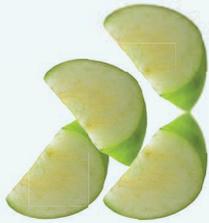
Musi ri tshi gera tshithu tsha bva dzikota ($\frac{1}{4}$), ri tshi khethekanya tsha bva zwipida zwa 4 zwi lingandho. Ndi tshifanyiso tshifhio tshi sumbadzaho dzikota kana zwa ina? Nwalani ee kana hai tsini na nomboro.



Teacher: _____
Sign: _____
Date: _____

Mbalo dza furakhisheni

Rerani nga dzifurakhisheni ni na khonani dzaṅu.



Deleke



Tandululani mbalo dzi tevhelaho nge na fhindula mbudziso na nga u ola nyolo.

a. Khoutshara ya netibolo u fha mutambi muṅwe na muṅwe hafu ya swiri. Hu na vhatambi vha 14.

U tea u vha e na maswiri mangana? _____

Mbudziso ndi ifhio? _____

Nomoro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi ji re khii ndi ifhio? _____

Olani tshifanyiso. _____

Phindulo ndi ifhio? _____

Ipfi ji re khii ndi ipfi ji re
ja go ntshusa kha u nanga
mashumele a re one.



b. Mme anga vha fha nne na khonani dzanga dza fuminthihi koṱa ya apula muthu muthihi.

Vha tea u vha vhe na maapula mangana? _____

Nomoro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi ji re khii ndi ifhio? _____

Olani tshifanyiso. _____



Phindulo ndi ifhio? _____

c. Nga duvha ja vhuṱambo ha tshikolo ho rengiswa khekhe dze dza vha dzo tshewa ntshini ya bva zwiṱa zwiraru.

Vha rengisela vhatu vha 24 zwiṱai zwa khekhe.

Vho rengisa khekhe nngana? _____

Nomoro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi ji re khii ndi ifhio? _____

Olani tshifanyiso. _____



Phindulo ndi ifhio? _____



Teacher: _____
Sign: _____
Date: _____



Zwithu zwa 3-D

Lavhelesani zwifanyiso.

Ndi tshigwada tshifhio tshi no sumbedza bola, silinda na mabogisi?

<p>A</p>	<p>B</p>	<p>C</p>
----------	----------	----------



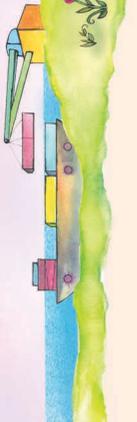
Wanani zwifanyiso zwivhili zwa tshinwe na tshinwe ni zwi nambatedze.

--	--



Talalani phindulo i re yone.

- Tamatšisi li na tshivhumbeco tsha bola-/bogisi-/silinda.
- Nglasi ya madi na tshivhumbeco tsha bola-/bogisi-/silinda.
- Bugyi na tshivhumbeco tsha bola-/bogisi-/silinda.



Tswititi na ngovhe (kuta).

Zwinwe zwithu zwa solidi zwi na vhurumbuntsha ha mabaphathi (fulethe).

Zwinwe zwi na vhurumbuntsha ha ngovhe (ho kutaho).

<p>Silinda i na masia mavhili a bande na litihhi lo kutaho.</p>	<p>Khounu ina sia litihhi la bande na sia litihhi lo kutaho.</p>	<p>Tshipulumbu tshi na ngovhe hothe (tsho kuta hothe).</p>
---	--	--



Ukunguluwa.

Elekanyani uri silinda, khounu, kana tshipulumbu zwi nga kunguluwa nga nglade.

Kha zwithu zwa 3, ndi tshifhio tshine:

a. Tsha si kone u kunguluwa tsha ya kule?	
b. Tsha nga kunguluwa tshi kha mutalotswititi?	
c. Tsha nga kungulutshela matungo othe?	

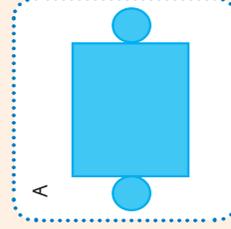


Nete ndi mini?

Tshivhumbeco tsha baphathi (fulethe) tshine tsha petea tsha ita tshithu tsha solidi tshi pfi ndi nete.

Nwalani ledere la nete line la petea la vhumba khounu.

Nwalani ledere la nete line la petea la vhumba silinda.



Teacher: _____
Sign: _____
Date: _____

Uvheanaga zwigwada na u kovhana hafhu



Mirekanyotshihadu.

Todani vhushaka.

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



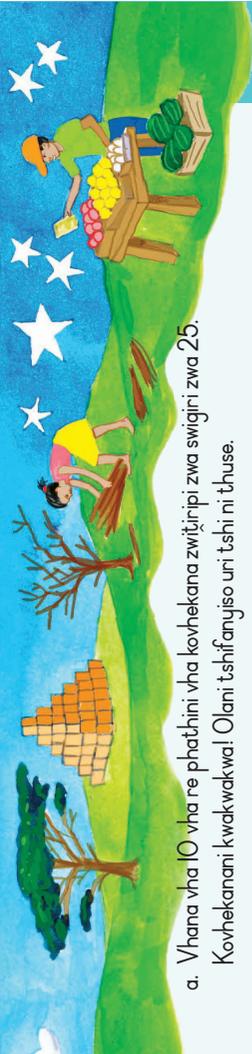
Kovhekanana zwe zwa sala.

Ntakadzeni na Livhu vha khou tōga u kovhekana zwiṗida zwa 13 zwa tshokoleitshi. Muṛiwe na muṛiwe u wana zwiṗida zwingana?



Vha nga kona f'hezi u kovhekana kwekwea zwo f'helelaho zwa 12, muṛiwe na muṛiwe u wana zwa rathi. Tshṗida tsho salaho vha tshi paḡula nga vhekati, zwiṛno muṛiwe na muṛiwe u wana zwiṗida zwa 6½.

Dechi: _____



a. Vhana vha 10 vha ne phathini vha kovhekana zwiṗiripi zwa swigiri zwa 25. Kovhekanani kwakwakwa! Olani tshifanyiso uri tshi ni thuse.



Muṛiwe na muṛiwe u wana zwiṗiripi zwa _____

b. Kovhelani vhana vha 4 zwiṗiripi zwa 37.

Muṛiwe na muṛiwe u wana zwiṗiripi zwa _____

c. Kovhelani vhana vha 5 zwiṗiripi zwa 48.

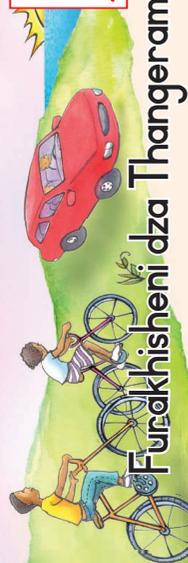
Muṛiwe na muṛiwe u wana zwiṗiripi zwa _____

d. Kovhelani vhana vha 10 zwiṗiripi zwa 73.

Muṛiwe na muṛiwe u wana zwiṗiripi zwa _____



Teacher: _____
Sign: _____
Date: _____



Furakhisheni dza Thangeramu

Thangeramu ndi phaziji ya kale ya Tshishaina yo itwaho nga zwiwumbo zwa 7 zwa mabophathi, zwine zwa vhidzwa upi ndi dzit'henge, zwoŋhe zwi vhewa fheŋhu huthihi uri zwi vhumbe zwiwumbo zwo fhambananaho.

Furakhisheni kha thangeramu.

	Lavhelesani phaziji ya thangeramu. Irwe na irwe ya thiraengele mbili khulwane ita furakhisheni ifhio ya tshikwea tshoŋhe? (Dza pinki tshifanyisoni itshi.)	_____
	Ardali na nga peta nthihi ya thiraengele khulwane ya bva zwiŋda zwiwihli zwi no lingana, tshipiŋda tshinwe na tshinwe tshi lingana na thiraengele ya saizi ya vhuakati (Ya ŋaga tshifanyisoni). Thiraengele ya vhuakati ndi furakhisheni ifhio ya tshikwea tshoŋhe?	_____
	Ardali na peta thiraengele ya vhuakati ya bva zwiŋda zwiwihli zwi no lingana, tshipiŋda tshinwe na tshinwe tshi lingana na thiraengele mbili tshukhu. (Dza muvhala mudala tshifanyisoni). Thiraengele irwe na irwe tshukhu ndi furakhisheni ifhio ya tshikwea tshoŋhe?	_____
	Ni nga kwakwanyisa thiraengele mbili tshukhu uri ni vhumbe tshikwea tshituku. Tshikwea tshituku ndi furakhisheni ifhio ya tshikwea tshoŋhe (tshidala tshifanyisoni)?	_____
	Ni nga kwakwanyisa thiraengele mbili tshukhu uri ni vhumbe pharalelogireme. Pharalelogireme ndi furakhisheni ifhio ya tshikwea tshoŋhe?	_____



U shumisa thangeramu.

Gerani thangeramu kha Tshigeriwa 12 ni iwale furakhisheni ya tshikwea tshoŋhe ni lebuje tshipiŋda tshinwe na tshinwe. (Henzi ndi zwiŋda zwa kale na kale/zwa u thomani zwa zwiwumbo zwa Thangeramu). Niwalani dzina lanu nga murahu ha tshipiŋda tshinwe na tshinwe, u itela uri ni kone u wana zwiŋda zwanu murahu musi no no fhedza u tamba.



Mutambo wa furakhisheni wa mikovhe i no lingana.

Tambani na vhatambi vha 4-8 ni tshi shumisa zwiŋda zwanu zwa thangeramu

1. Vhatambi vha sielisana kha u vha vharengisi.

2. Murengisi ndi ene ane a ta uri murwe na murwe wa vhatambi u dzhenisa furakhisheni ifhio ya thangeramu yoŋhe kha tshikwama (khithi).

3. Mutambi murwe na murwe u a humbulela uri khoini i do wa nga ŋoho naa kana nga mutshila, murengisi a kona u thosa khoini.

4. Murengisi u kovha tshikwama nga ndila i no lingana kha avho vhe vha humbulela zwone. (Avho vhatthu vha nga tea u tshintshisa tshipiŋda tshithihi kana zwinzhi nga tshinwe kana zwinwe zwi re na mutengo u no fana/muthihi.)

5. Zwo salaho zwe zwa si kone u kovhiwa zwi sala tshikwamani u itela raundu i tevhelaho.

6. Vhatambi vhoŋhe vha a ŋola uri u kovhekana hu khou itwa nga ndila yone naa.

7. Ardali mutambi a nga vhona vhuakhaki, murengisi u a laŋisiwa nga u badeliŋwa ŋ ya tshikwea tshoŋhe a tshi badela mutambi we a vha ene wa u thoma u vhona vhuakhaki.

8. Mutambi ane a si vhe na zwiŋda a nga ŋusa tshithihi kha zwo salaho tshikwamani.

9. Mutambo u a ya phanŋa u swika mutambi murwe na murwe o vha murengisi.

Murwe na murwe u Lea u dzhenisa kofa nthihi ya thangeramu ngomu tshikwamani.



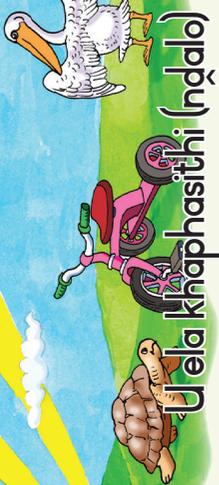
Ndi go dzhenisa thiraengele nthihi khulwane.



Zwiwihli zwamalo zwi lingana na tshithihi tshainu. Ndi nga kona u dzhenisa tshikwea na pharalelogireme.



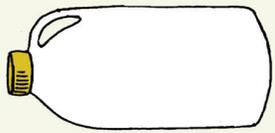
Teacher: _____
Sign: _____
Date: _____



Udela khaphasithi (ngalo)



Shumisani tshifaredzi tsha bodelo la pulasitiki na khaphu.



khaphu nthlhi (250 ml)



tshifaredzi tsha litha ya 1

Ni vhora u nga tshifaredzi itshi tshi nga dala nga khaphu nngana?

A no ngo tea u bula dzilitsha kana mlilitsha. Shumisani fheadzi maipfi a no ni khaphu na bogelo.



Itani litha.

Wanani ndila ya u ita litha ni tshi shumisa zwiludi zwa mielo yo fhambananaho. Nwalani fhungombalo la ndila inwe na inwe.

Fhungombalo: $500 \text{ ml} + 500 \text{ ml} = 1000 \text{ ml (1 l)}$



Fhungombalo _____ = 1000 ml (1 l)

Musi ri tshi n'wala tswayo dza methiriki, ri sia tshikhala tshiluku vhuwati ha diazhitshi ya u fheadzisa na luswayo. Sa tsumbo ri n'wala 3 l hu si 3l; 299 g hu si 299g; 15 km hu si 15km.



Volumu (vhungomu) ha khaphu inwe na inwe ye ya dadziwa ndi ifhio?



Lebula iyi yo dadza khaphu u swika kha mutalo wa u thoma.

Khaphasithi ya khaphu ndi 0 ngeno volumu ya khaphu ye ya dadziwa i l.



Three measuring cups with empty boxes for measurement.

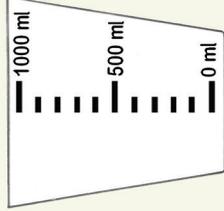


Ri ela muelo wa zwiludi zwiṭuku nga **dzimilitsha (ml)**.

Khaphu ya muelo wa mishonga i ita 10 ml, i no lingana na zwiṭebula zwiṭuku zwiṭhili.

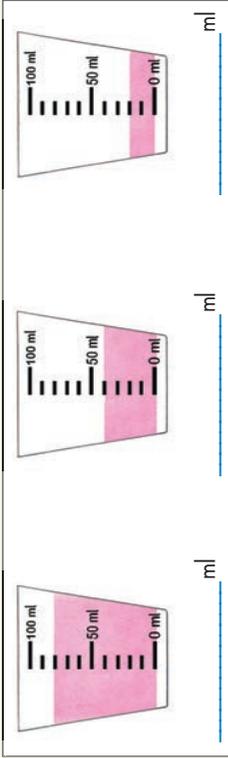
Ri ela mielo minzhi ya zwiludi nga dzilitsha (l).

Hu na mlilit ha dza zwiṭigisi kha litha nthlhi.



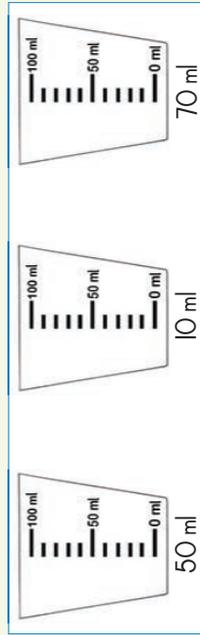
Hu na zwiludi zwingafhani?

Hu na ml nngana dza zwiludi dzhegeni inwe na inwe?



Hu na zwiludi zwingafhani?

Swifhadzani khaphu dza mishonga ni tshi sumbedza tshihlalo tshi re kha inwe na inwe.



Teacher: _____
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Date: _____

Pimani ni shele

Mutamboni.

Nga tshifhinga tsha u awela mutambi muñwe na muñwe u nwa $\frac{1}{4}$ ya liṭha ya dzhusi.

- a. Ndi vha tambi vhangana vhane vha nga kovhekana? Liṭha ya 1 _____ Liṭha ya 4 _____ Liṭha ya $2\frac{1}{2}$ _____ Vhatambi vha 8 _____ Vhatambi vha 9 _____ Vhatambi vha 12 _____
- b. Vha ṭoda dzhusi nngafhani ya? _____

Liṭha na miliiṭha (ml)

Liṭha ya 1 = 1000 ml $\frac{1}{2}$ ya liṭha = _____ ml $\frac{1}{4}$ ya liṭha = _____ ml
 125 ml = _____ ya liṭha 50 ml = _____ ya liṭha

Itani hafu ya liṭha.

Itani thiki (✓) kha zwiñhalo zwa 3 zwine zwa ita hafu ya liṭha.

120 ml	140 ml	160 ml	28 ml	240 ml

Mafhi a ni fha mutakalo!

Kovhelani liṭha dza 4:

- a. Vhana vha 8 Nwana muñwe na muñwe u wana liṭha dza _____
- b. Vhana vha 16 Nwana muñwe na muñwe u wana liṭha dza _____
- c. Vhana vha 12 Nwana muñwe na muñwe u wana liṭha dza _____

Deiṭhe: _____



Bara ya Dzhusi ya Vhonani.

Uri a ḍadze dzhege ya 1. Bongi u shumisa kota nṭhihi ($\frac{1}{4}$) ya dzhusi na khaphu dza 2 dza maḡi. Shumani ni wane uri ndi dzhusi na maḡi zwiingafhani zwine Vhonani a shumisa kha dzhege dza 5 dza dzhusi.

Dzhege	1	2	3	4	5
Khaphu dza dzhusi	Kota nṭhihi ($\frac{1}{4}$)				
Khaphu dza maḡi	2				

Itani liṭha.

Ndi zwiingana zwa tshifaredzi tshinwe na tshinwe zwine na zwi ṭoda kha u ita liṭha?

- a. _____ × 100 ml b. _____ × 200 ml c. _____ × 250 ml
- e. _____ × 500 ml f. _____ × 50 ml

Phathi yo no fhela.

Phathi ya Shumani yo fhela. Hu na dirinkhi dzo salaha.

Ho sala dzhusi nngafhani ya ṭoda?

Ho sala dzhusi nngafhani ya phephulu?

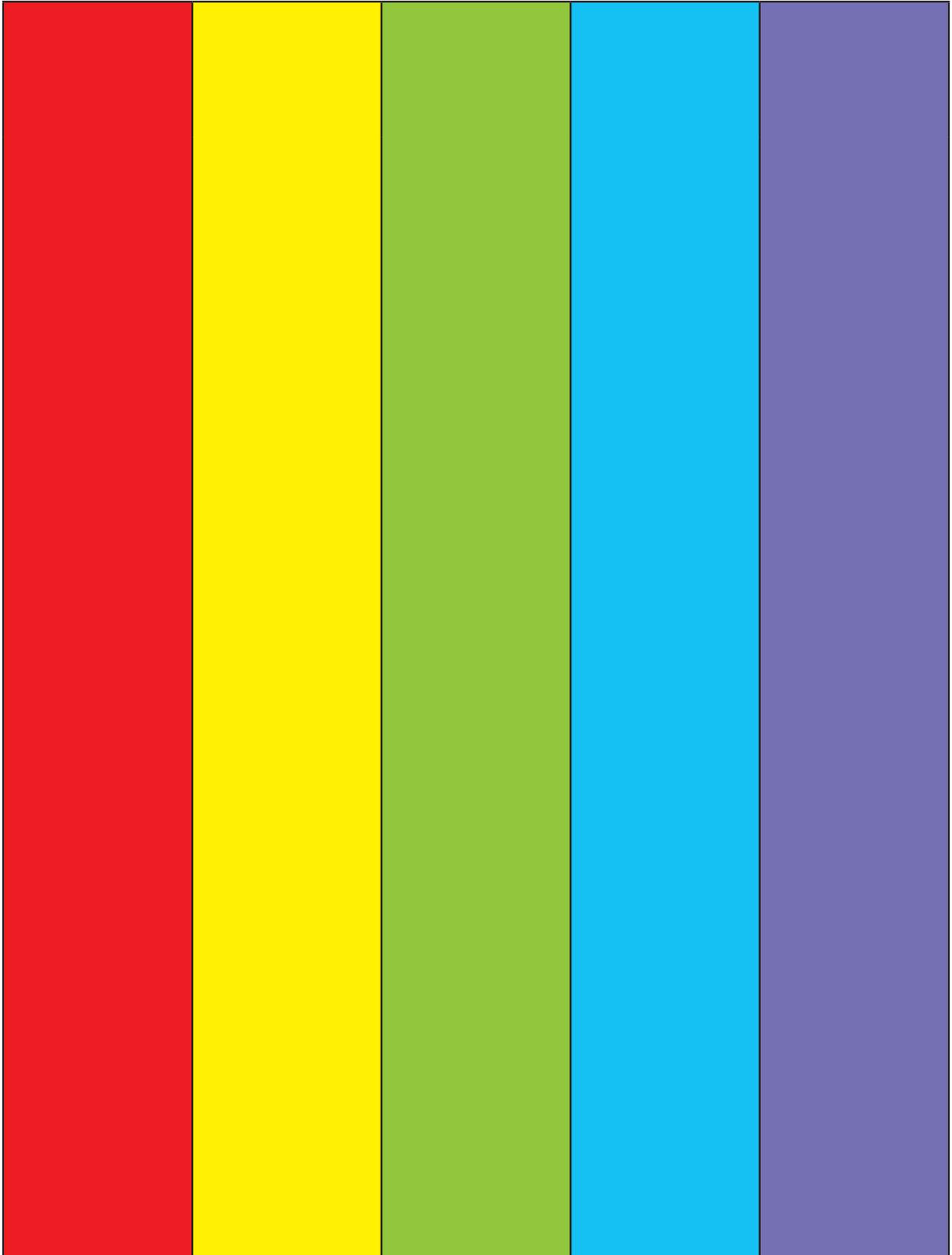
Thandi u ṭanganjisa idzi dzhusi mbili.

A nga ḍadza dzhege nngana? _____

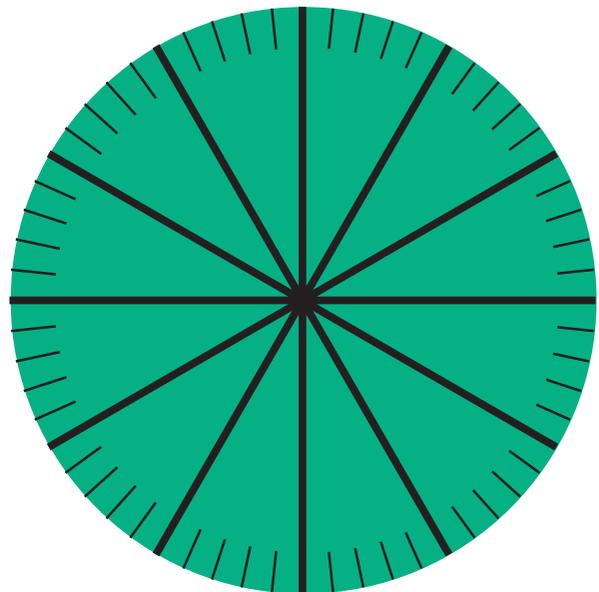
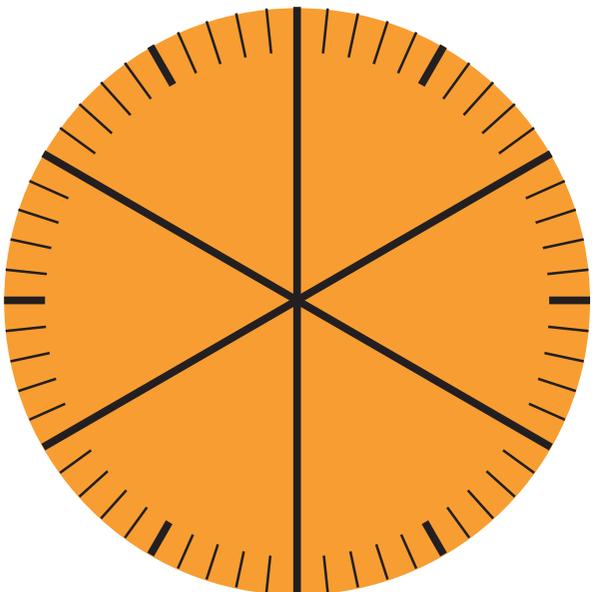
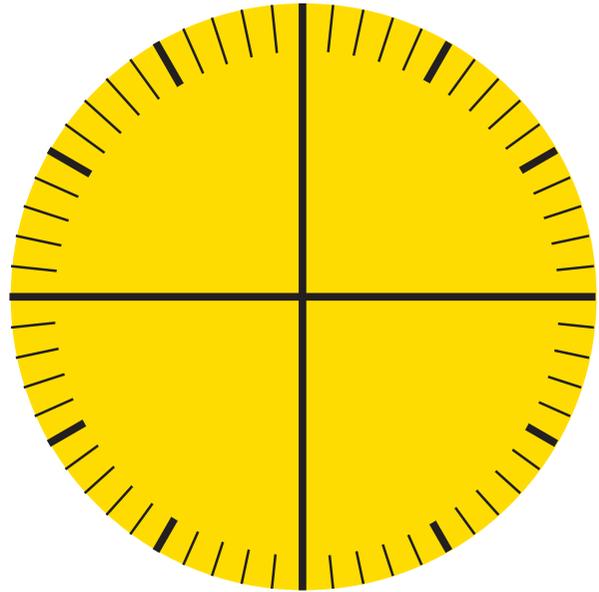
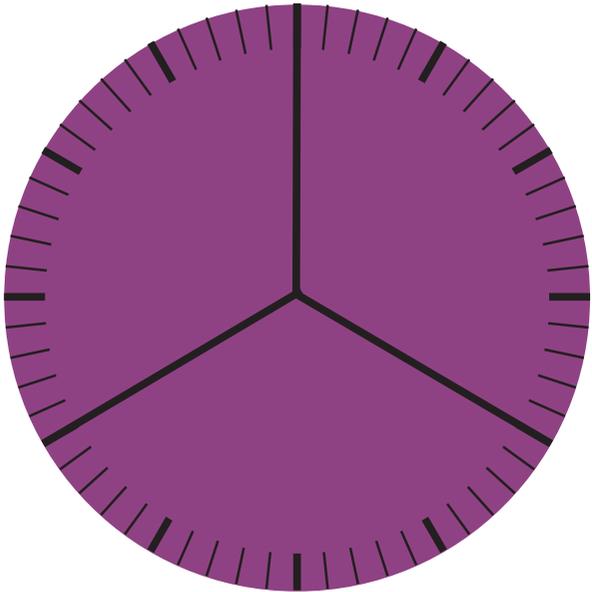
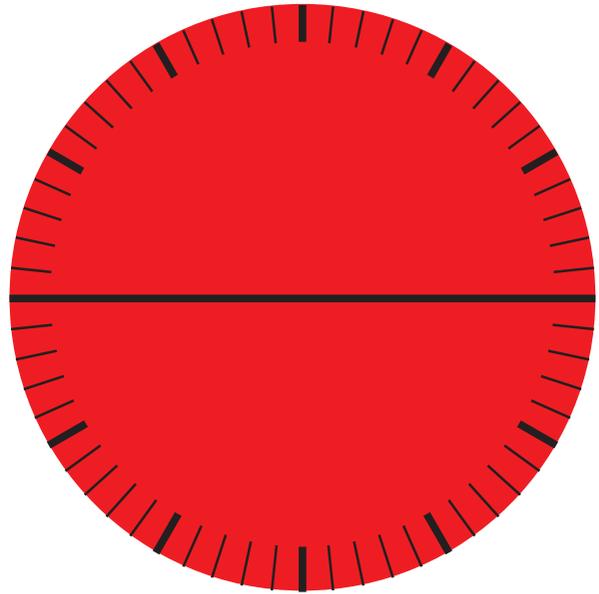
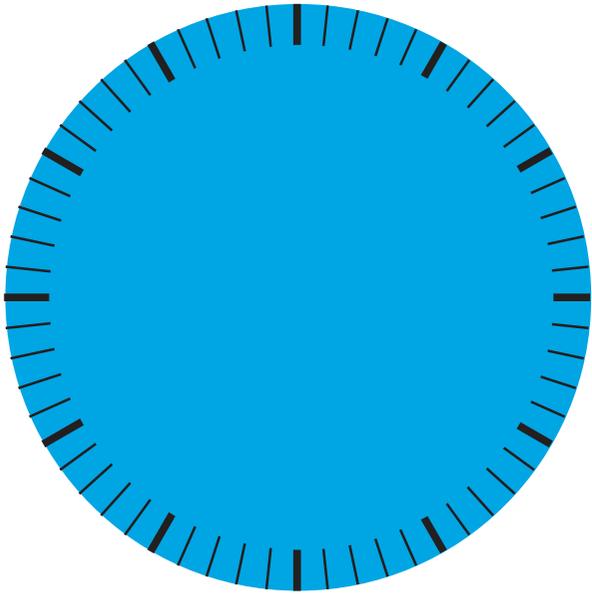
Sedzulusani!
Vhambedzani!
Lulamisoni!

Teacher: _____
Sign: _____
Date: _____

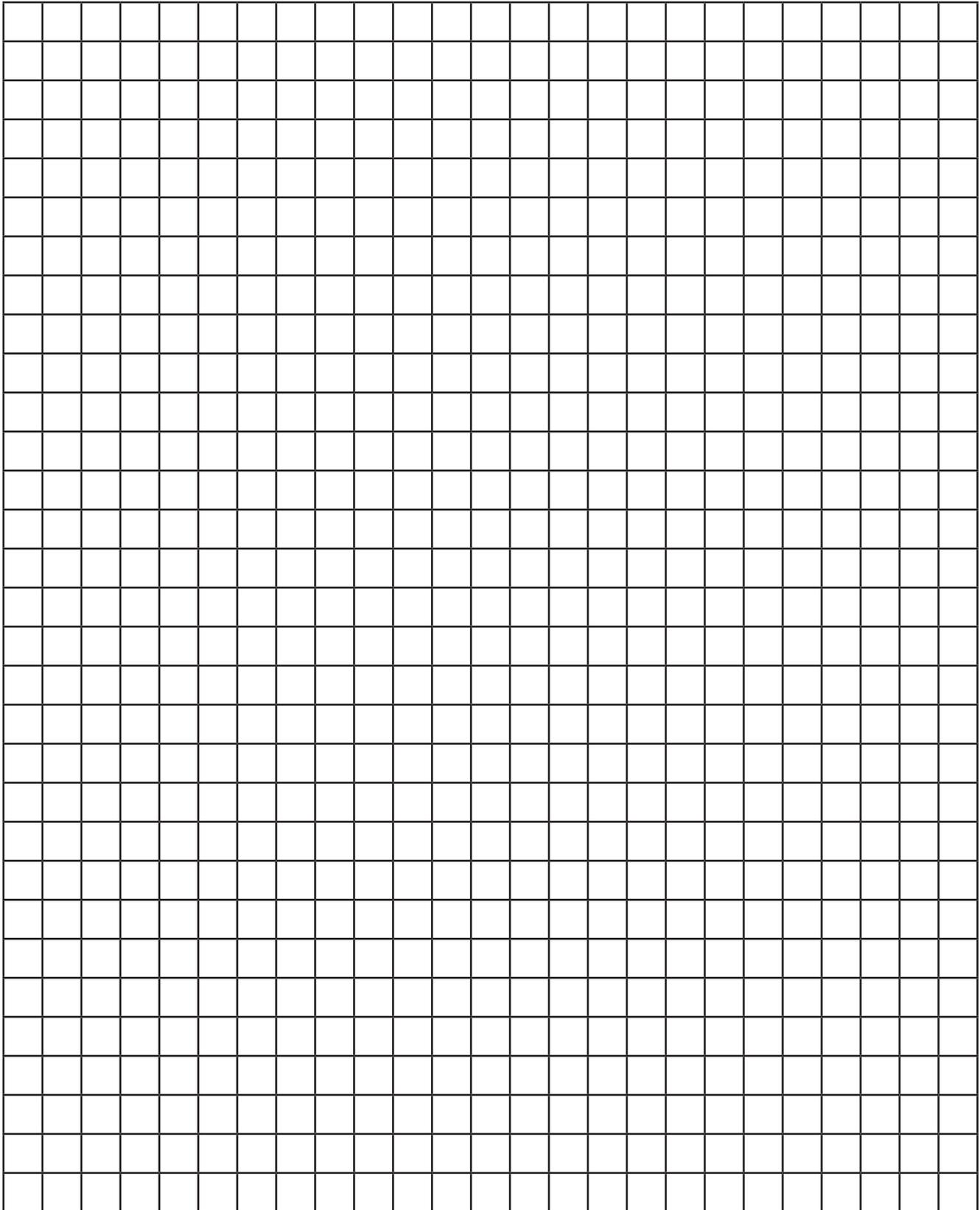
Tshigeriwa 5



Tshigeriwa 6



Tshigeriwa 7



Tshigeriwa 8

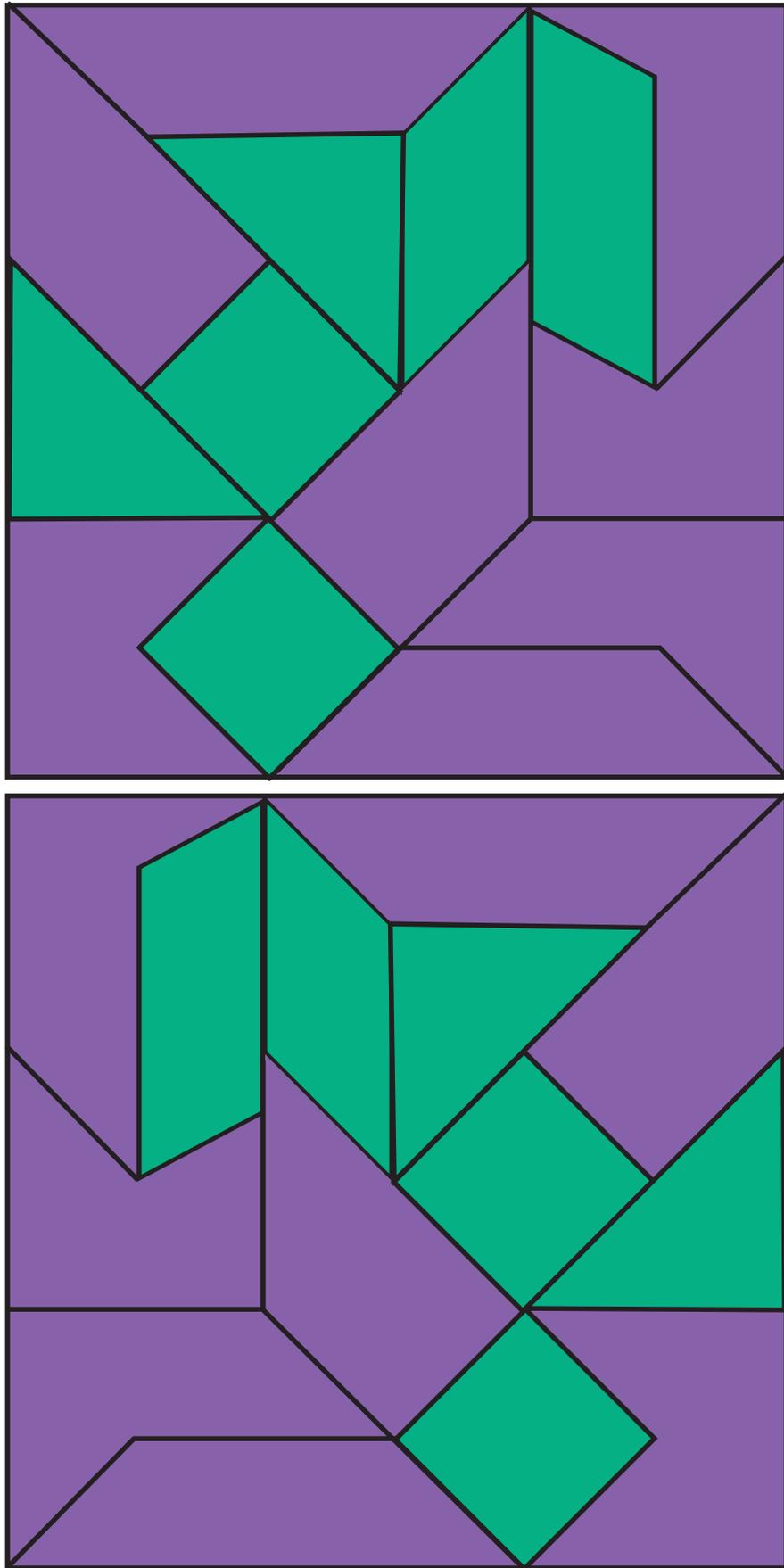
I_c	
IO_c	
RI_s	
RIO_s	
RIOO_s	

Tshigeriwa 9

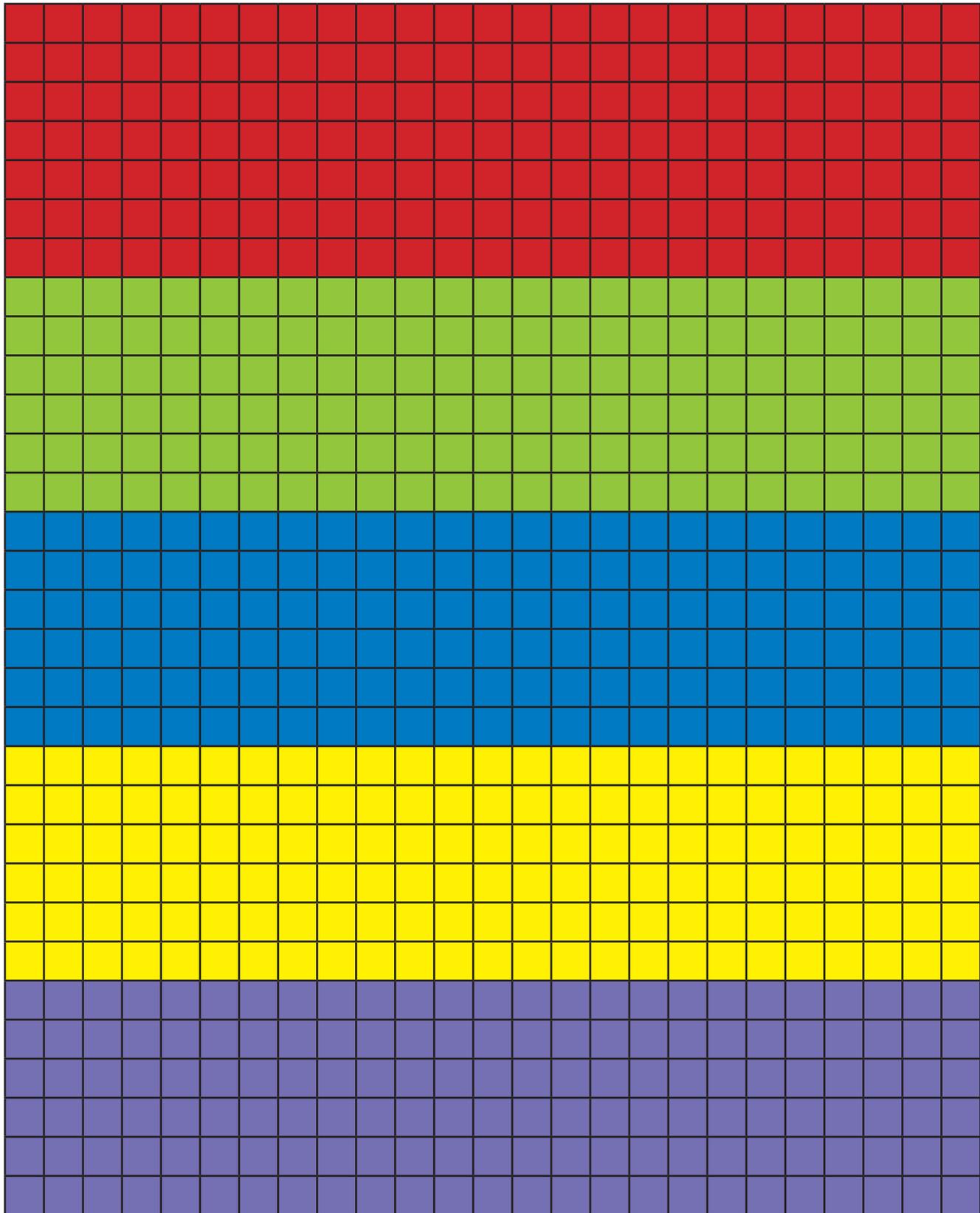
RIOO	RIOO	RIOO	RIOO
RIOO	RIOO	RIOO	RIOO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO

RI							
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lc							
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Tshigeriwa IO



Cut-out II



Cut-out 12

