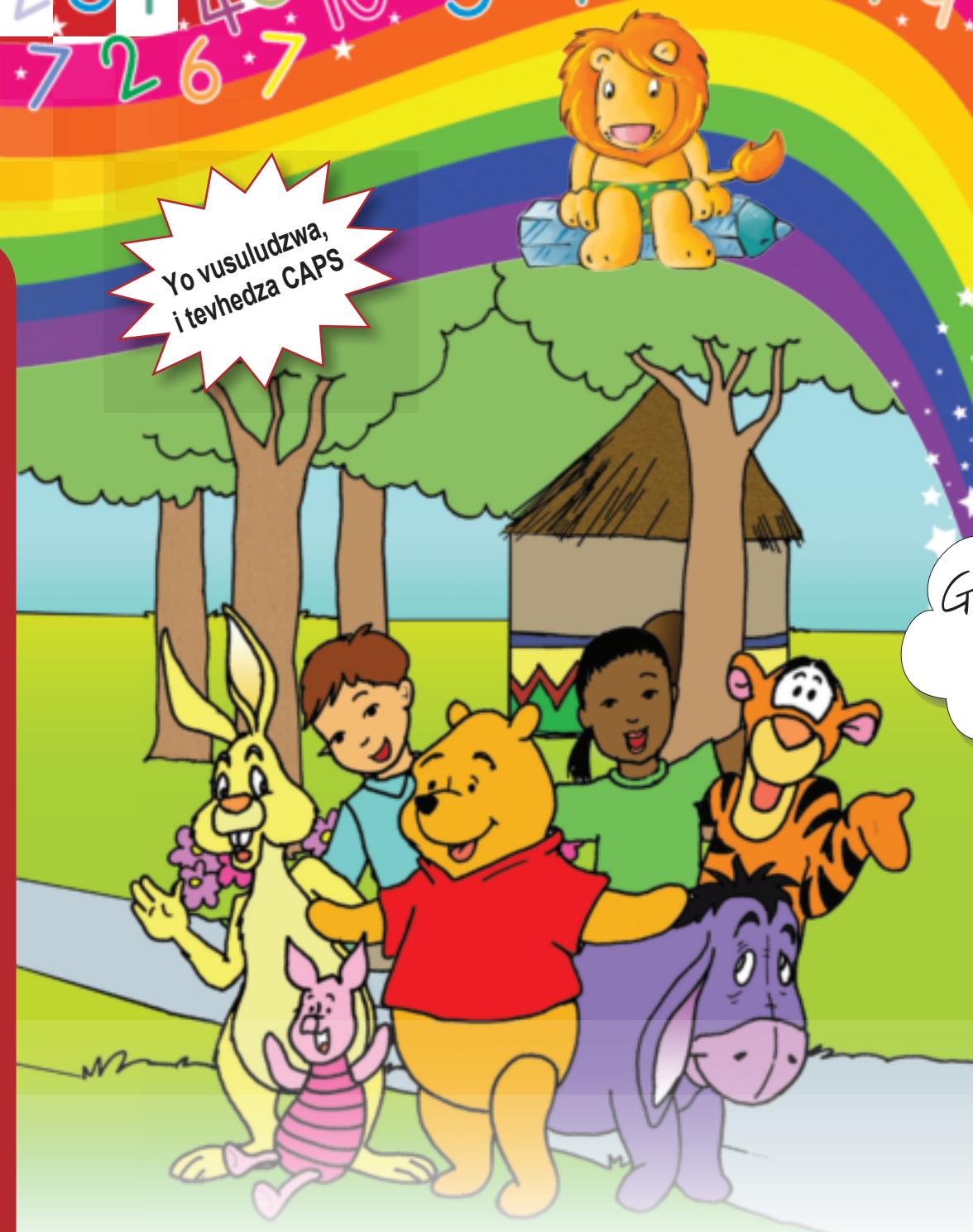


MBALO NGA TSHTVENDA

Bugu ya 2
Themo dza
3 & 4



MBALO NGA TSHTVENDA – Gireidi ya 3 Bugu 2

ISBN 978-1-4315-0156-4



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Kilasi :

Dzina:

1 2 3 4

U t̄lukanya Mulayotewa (Ndayotewa) wa Riphabuliki ya Afrika Tshipembe (1996)
Milayo ya nthesa ya shango i wanala kha Mulayotewa (Ndayotewa) wa Riphabuliki ya Afrika Tshipembe (1996). Milayo igi i na maanda u fhira na muphuresidennde, maanda ayo a fhira a dzikhothe na a muvhuso wotho.
Ndi milayo ine ya laya vhathu vha lino shango uri vha tea u farana nga ndilade. Mulayotewa wa shango wo itelwa u tsireledza rote ri no khou tshila zwino na vhana vhashu vhane vha kha di do da.

Talukanyani hune ra bva hone.

Ri songo dovha vhukhakhi ha mulovha.

Mulayotewa washu u ri thusa uri ri elekanye nga vhumatshelo ha khwile ha rote khathihi na u vhu fha.

Rine, vhathu vha Afrika Tshipembe;
Ri dzihela nthu u shaea ha vhulamukangi kha tshifhinga tsho fheldaho;
Ri thonifha havho vhe vha tambulela vhulamukangi na mboholowo kha shango lashu;
Ri thonifha havho vhe vha shuma vha tshi itela u fha na u bveledzisa shango lashu; na



U tenda uri Afrika Tshipembe ndi ja vhothe vhanne vha dzula kha, vho vhofekanyaho vha vha huthihi naho vha sa fani.

Zwenezwo, nga kha vhaimeleli vho khethiwaho zwavhu, ri khou tanganedza ino Ndayotewa sa wone Mulayo Muhulusa wa Riphabuliki uru u—

Fhelise khethululo ya tshifhinga tsho fheldaho na u thoma tshitshavha tshire tsho disendeka kha ndeme dza demokirasi, vhulamukangi ha matshilisano na pfanelo dza vhuthu;

Fha mitheo kha demokirasi na tshitshavha tshi re khagala hune muvhuso wo disendeka kha lufuno lwa vhathu nahone vhadzulapo vho tsireledza nga mulayo nga ngila I linganaho;

Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhothe na u vhofholola vhukoni ha muthu muwe na muwe; na

Fha mbumbano na demokirasi zwa Afrika Tshipembe uru ji kone u vha fhethu ho teaho sa muvhuso wo diimisaho kha muta wa tshaka.

Shumisani pfanelo dzanu sa mudzulapo wa Afrika Tshipembe ni dovhe ni vhe na vhuqifhinduleli ha u tsireledza pfanelo dza vha.

Divhani Mulayotibe Wa Pfanelo na Mulayotibe Wa Vhuqifhinduleli.

Mudzimu tsireledza vhathu vhashu.

Nkosi Sikele' iAfrika. Morena boloka setjhaba sa heso.

God seën Suid-Afrika. God bless South Africa.

Hosi katekisa Afrika.

ISBN 978-1-4315-0156-4



9 781431 501564



MATHEMATICS IN TSHTVENDA

GRADE 3 – BOOK 2

TERMS 3 & 4

ISBN 978-1-4315-0156-4

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7th Edition

Zwi re ngomu



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Vho Angie Mutshetka
Minista wa Muhasho wa Pfunzo ya Muteo



Vho Enver Surty
Muthusaminista wa Pfunzo ya Muteo

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

Bugu dza mishumo dza Rainbow ndi tshipida tsha zwe Muhasho wa Pfunzo ya Muteo wa ita zwa u khwinisa vhukoni ha vhagudi vha Afrika Tshipembe vha gireidi dza ratħi dza u ranga. Sa tħinwe tħħġid zwithu zwihulwane zwa Pulanetshumisi ja Muvhuso, thandela iyi yo konadzea nge ja lamedbzwa lu sa vhudziswi nga Muhasho wa Gwama ja Lushaka.

Hezwi zwo ita uri Muhasho u kone u bveledza bugu idzi, dži kha nyambo dzothe dza tħiofisi, dži tħi waniwa mahala.

Ri na fulufħolo jauri bugu idzi dži do thusa vhadededzi (vhagħidisi) mushumoni wavha wa u fuuza wa džuvelha jidherha na jidherha na u vha na vħu tanziuri vha khunyeliedze kharikhlu ja mu yothie. Ro ita nga vħuronwaneuri ri sumbedze ndila vhadededzi kha nyitqof nge ra shumisa aikħoni dži no sumbedzauri mugħudi u tea u ita zwifhio.

Ri na fulufħolo ji no bva ji mbiluni uri vhana vha do diphina nga u shumisa bugu idzi zweneżwi vha tħi khou aluwa na u guða, khathħiha na uri na vħonevha, sa mudeddedzi, vha do diphinna na vhana avha.

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



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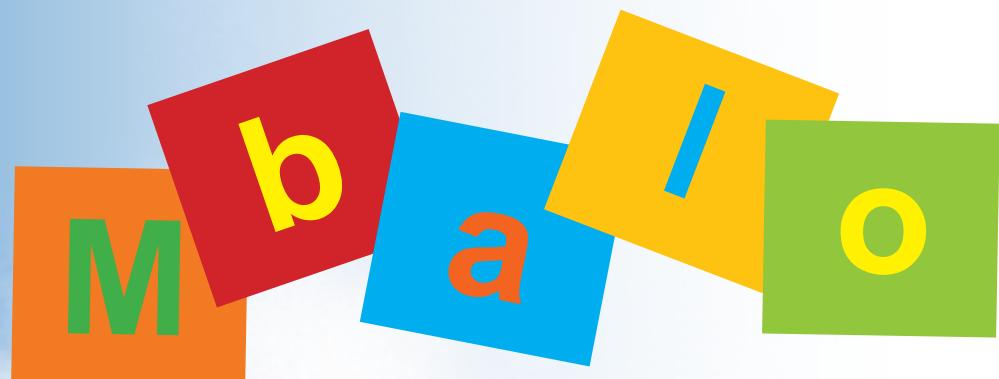
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Gireidi ya **3**



Heyi bugu ndi ya:



TSHIVENDA

Bugu ya

2

65

Dethi:

Nomboro 500 u swika kha 600

Themo ya 3



Vhalani ni nwale.

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

500



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

- b. Nwalani nomboro dzi no khou t̄ahela kha giridi i re afho nt̄ha.

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

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

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

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

- e. Nwalani nomboro dzot̄he dzi re kha phetheni ya dzi2 u bva kha 548 u swika kha 570.

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

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

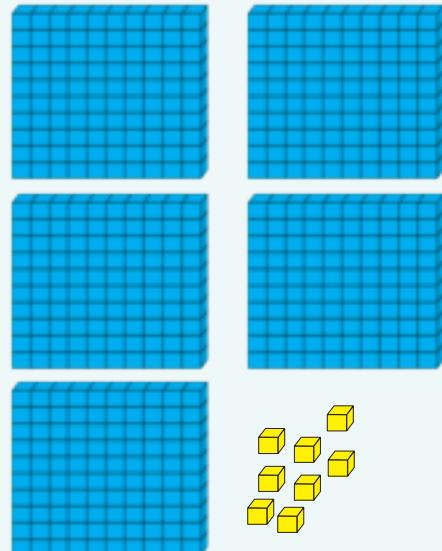
515; 520; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____



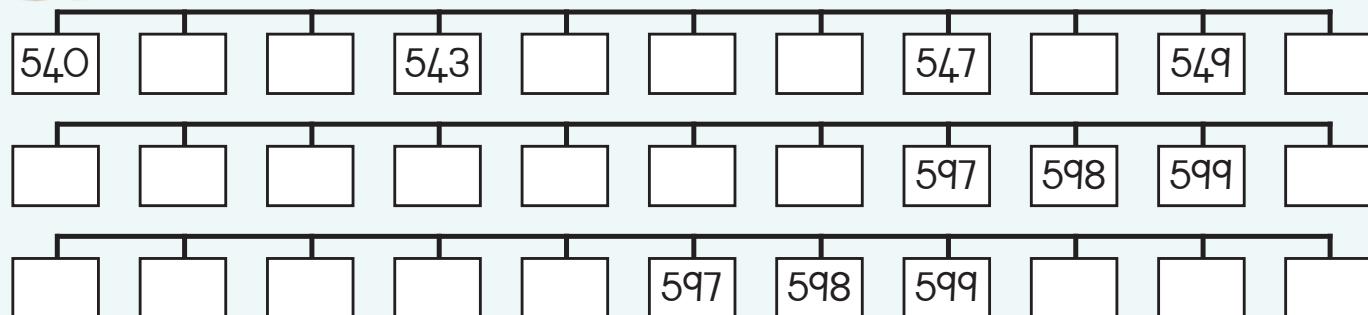
Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.



Fhedzisani Nwalani u bva kha ṭhukhusa u Nwalani u bva kha khulwanesa u
thebulu. ya kha khulwanesa ya kha ṭhukhusa

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



Nwalani zwi tevhelaho nqa maipfi.

520

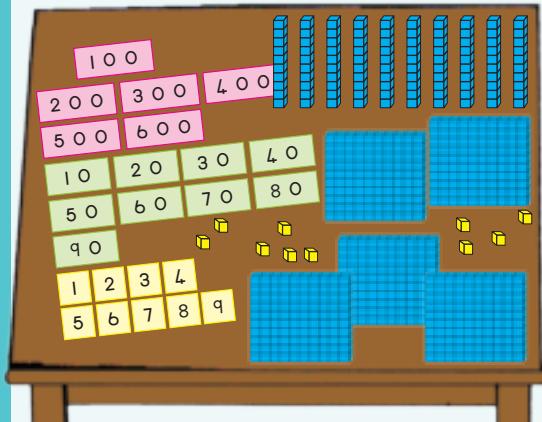


66

Nomboro dza 500 u swika kha 600 hafhu

Dethi:

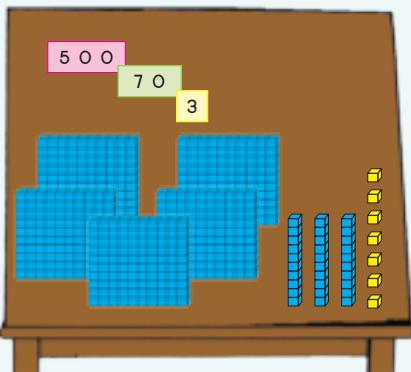
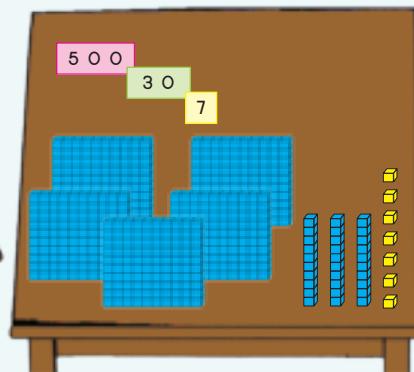
Themo ya 3



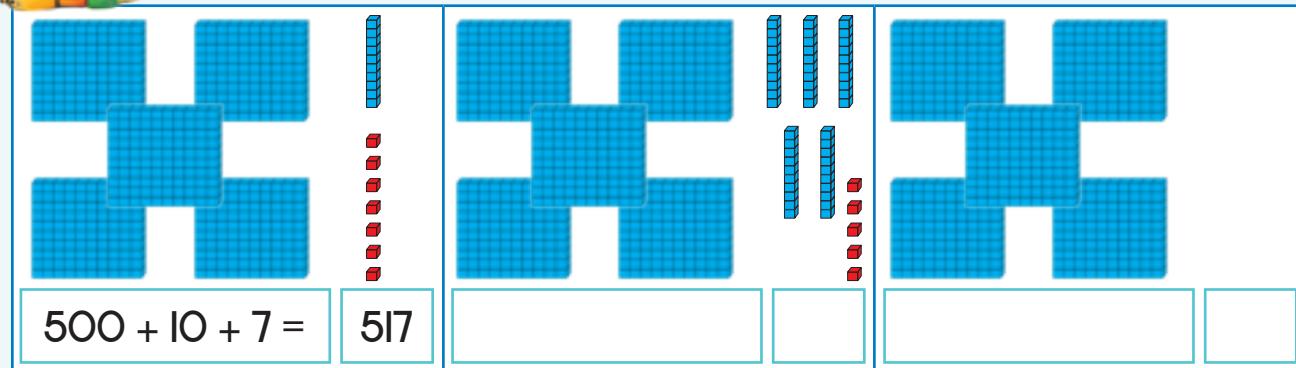
Peter u na garaña dici tevhelaho
dza vhuimo ha nomboro na
zwibuloko zwa beisi ya fumi.

Mudededzi vha humbela Peter uri
a sumbedze 537 nga garaña na
zwibuloko.

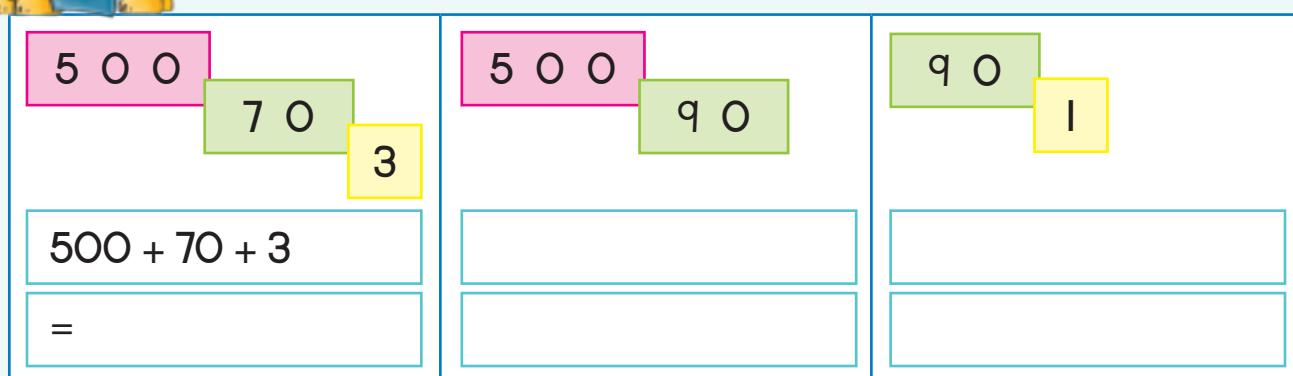
Aakar o sumbedza hezwi.
O ita zwifhio zwo khakheaho?

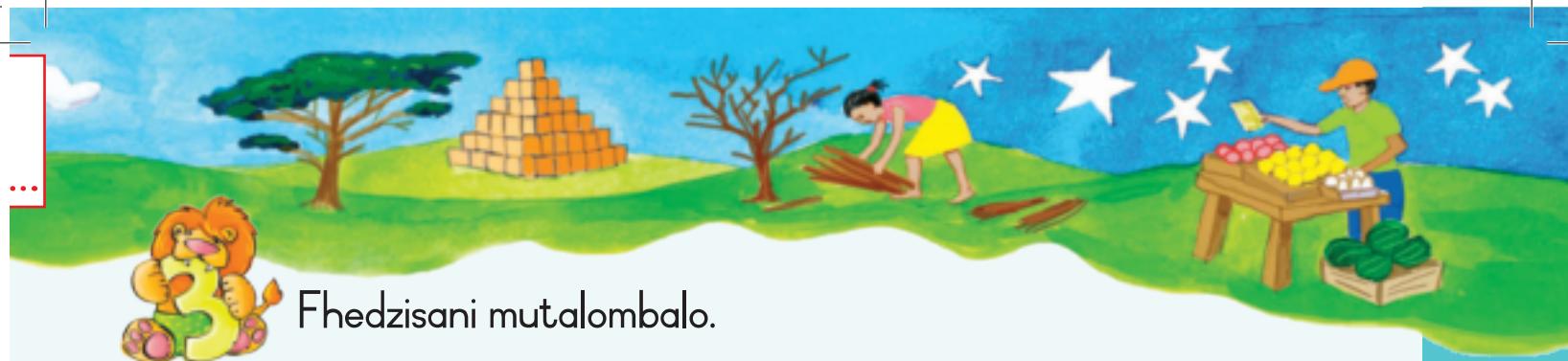


Nwalani fhungombalo ni tevhedze nga phindulo.



Nwalani fhungombalo ni tevhedze nga phindulo.





Fhedzisani mutualombalo.

550	551	552	<input type="text"/>	560					
-----	-----	-----	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	-----

Nwalani nomboro dzothé dzi re tħukku kha 556.

Nwalani nomboro dzothé dzi re khulwane kha 556.

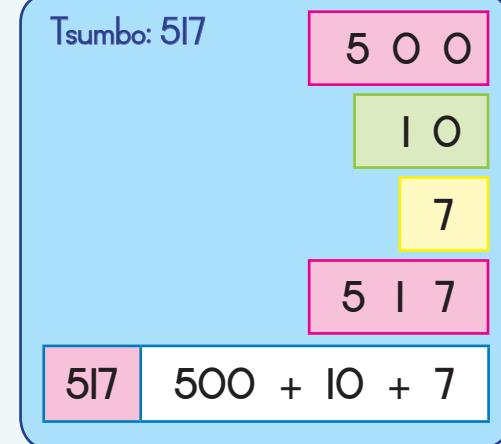


Padukanyani nomboro yanu.

- Fhañani nomboro iñwe na iñwe nga magaraña anu.
- Nwalani velu ya didzhit iñwe na iñwe.

495	<input type="text"/>
508	<input type="text"/>
594	<input type="text"/>
549	<input type="text"/>
602	<input type="text"/>

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



Nwalani madzina a mbalo.

221	<input type="text"/>
486	<input type="text"/>
369	<input type="text"/>
419	<input type="text"/>
491	<input type="text"/>



11 12 13 14 15 16 17 18 19 20

67

Dethi:



Themo ya 3



Nomboro 600 u swika kha 700

Vhalani ni nwale.

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

600



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

- b. Nwalani nomboro dzi no khou tchela kha giridi i re afho nthha.

- 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 dzothé dzi re kha phetheni ya dzi2 u bva kha 611 u swika kha 633.

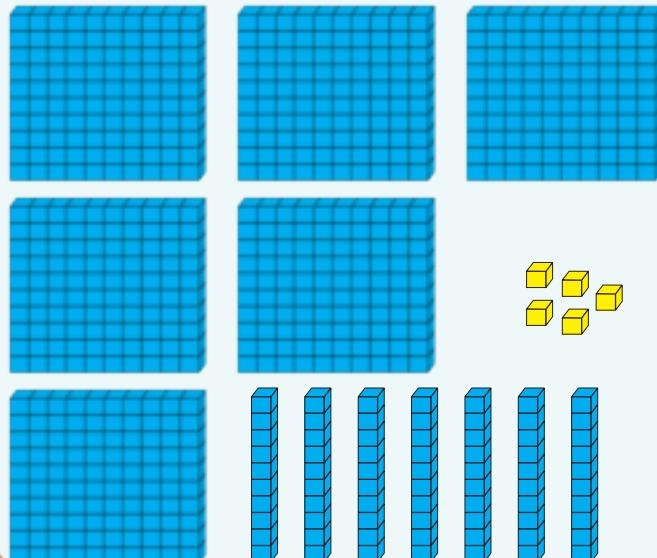
611; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 633

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

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



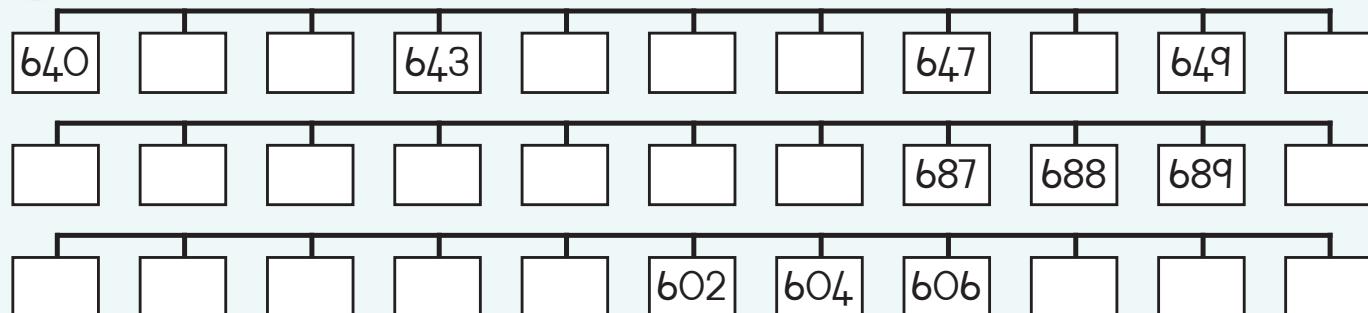
Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.



Fhedzisani Nwalani u bva kha t̄hukhusa u Nwalani u bva kha khulwanesa u
thebulu. ya kha khulwanesa ya kha t̄hukhusa

672, 676, 674, 671, 675

656, 605, 650, 615, 605



Teacher:
Sign:
Date:



Nwalani zwi tevhelaho nga maipfi.

631

11 12 13 14 15 16 17 18 19 20



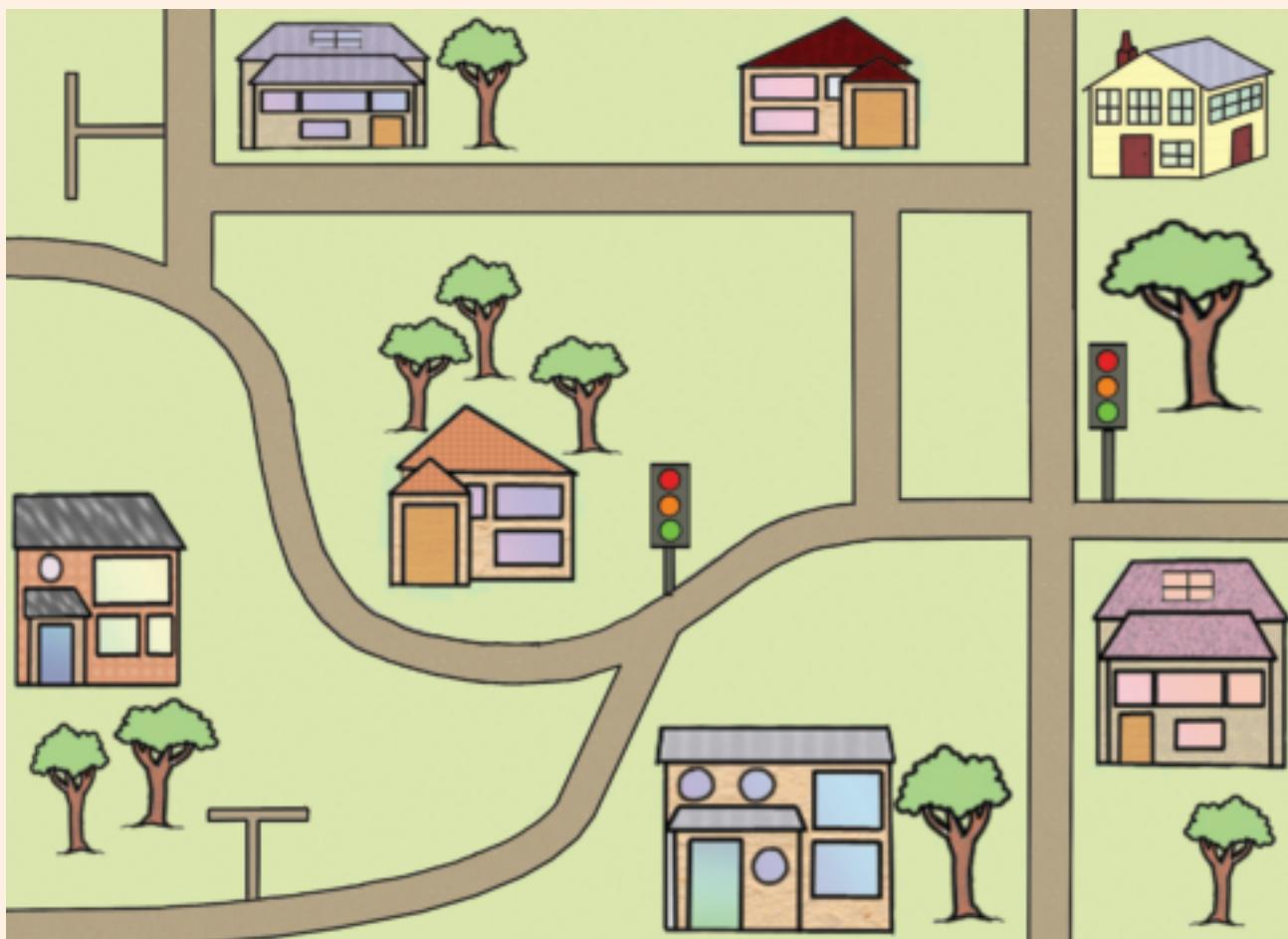
Mushumo wa mepe

Dethi:

Themo ya 3

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, sibadela (vhuongelo), tshititshi tsha mapholisa, mavhengeleni.
Ni nga kha di dzhenisa zwiñwe zwiñaratā.



Shumisani mepe u re kha siatari **lo**
fhiraho kha u laedza khonani dzanu ndila 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.



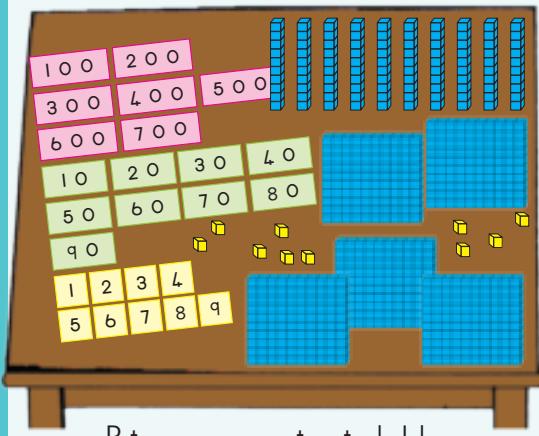
11 12 13 14 15 16 17 18 19 20

69

Nomboro 600 u swika kha 700 hafhu

Dethi:

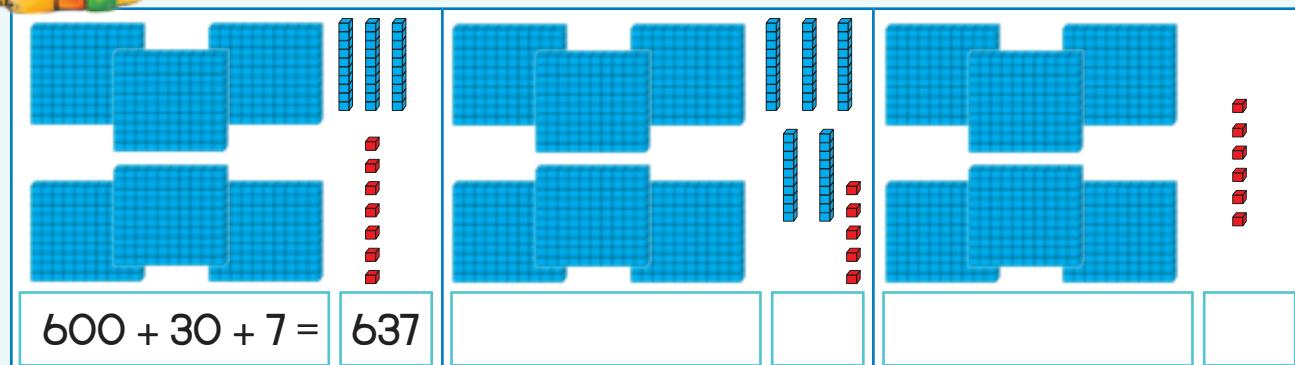
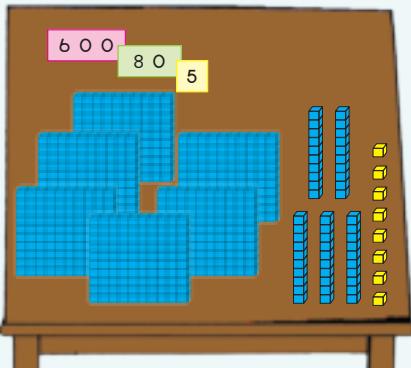
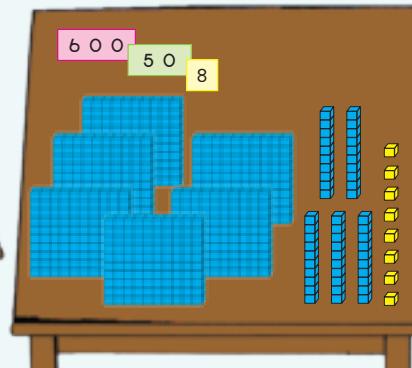
Themo ya 3



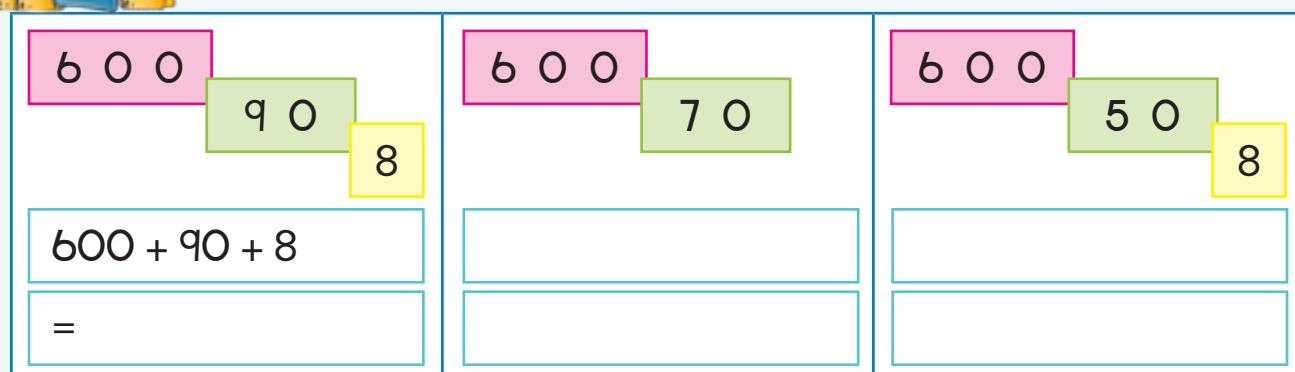
Peter u na magara \ddot{a} a tevhelaho a vhuimo ha nomboro na zwibuloko zwa beisi ya fumi.

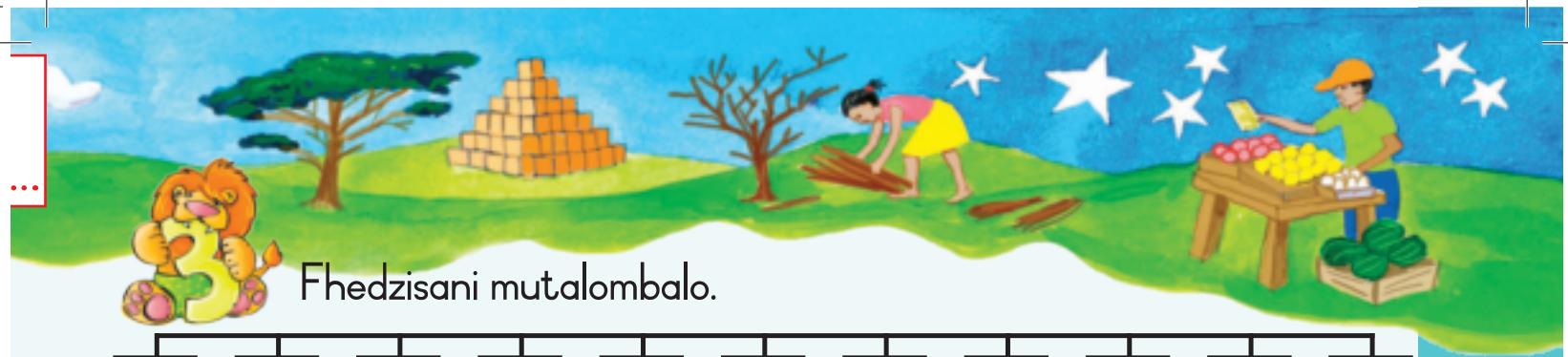


Nwalani fhungombalo ni tevhedze nga phindulo.



Nwalani fhungombalo ni tevhedze nga phindulo.





Fhedzisani mutalombalo.

670 671 672 680

Ńwalani nomboro dzothé dzi re thukhu kha 675. _____

Ńwalani nomboro dzothé dzi re khulwane kha 675. _____



Dzhenisani < kana > =

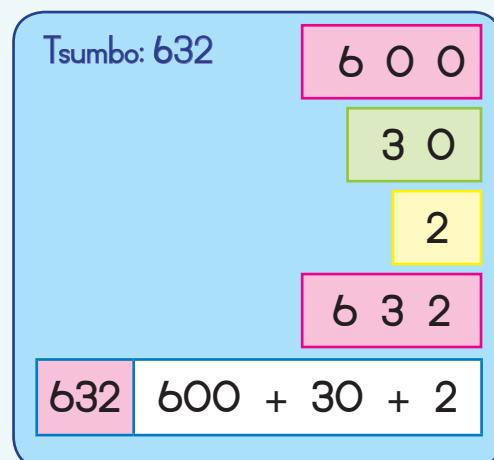
- a. 670 607 b. 688 699
 c. $600 + 50 + 5$ 655



Padukanyani nomboro yanu.

- a. Fhałani nomboro iñwe na iñwe nga magarała yanu.
 b. Ńwalani vēlu ya didzhit iñwe na iñwe. Zwino itani hezwi: Padukanyani nomboro yanu.

686	
690	
699	
673	
665	



Ńwalani madzina a mbalo.

672	
693	
607	
697	
660	



Teacher:
Sign:
Date:

70

Dethi:

Nomboro 650 u swika kha 750

Themo ya 3



Vhalani ni nwale.

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

650



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

- b. Nwalani nomboro dzi no khourahela kha giridi i re afho nthha.

- c. Nwalani nomboro dza 10 dzi no tevhela 650.

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

- d. Nwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi 2.

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

- e. Nwalani nomboro dzothé dzi re kha phetheni ya dzi 3 u bva kha 719 u swika kha 749.

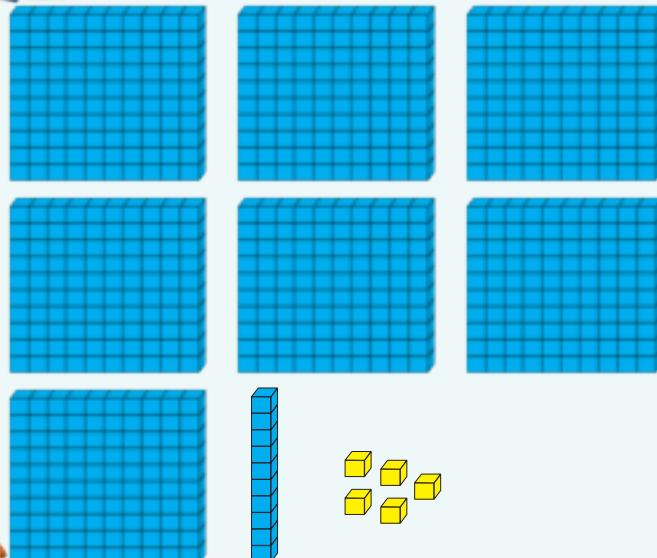
719; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ 749

- f. Nwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi 5.

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



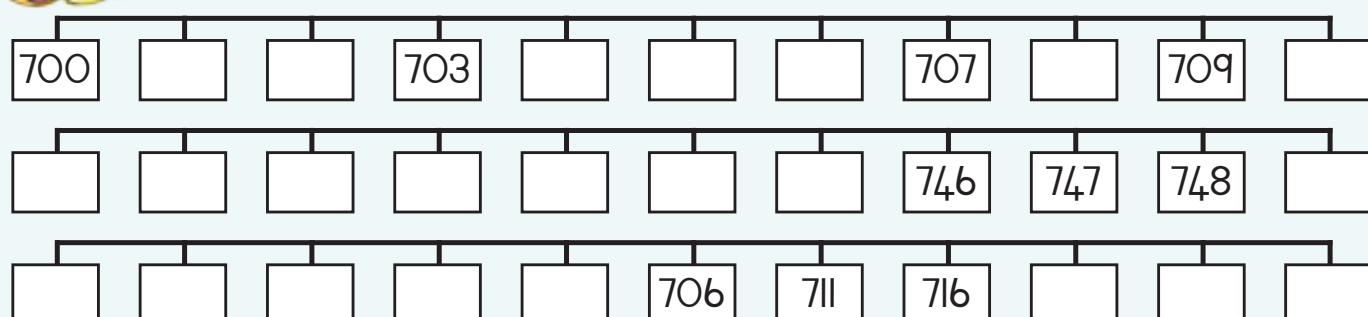
Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.



Fhedzisani
thebulu.

Ñwalani u bva kha thukhusa u
ya kha khulwanesa

Ñwalani u bva kha khulwanesa
u ya kha thukhusa

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



Teacher:
Sign:
Date:



Ñwalani zwi tevhelaho nga maipfi.

706

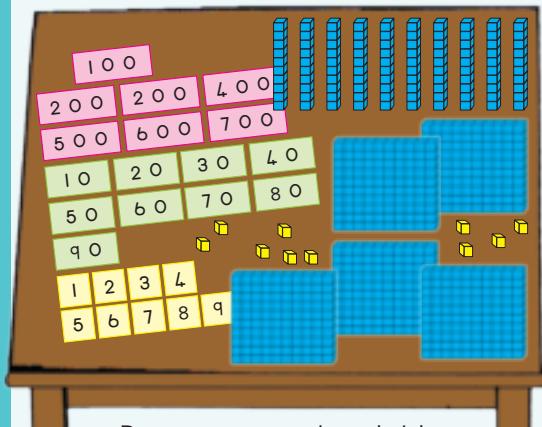
11 12 13 14 15 16 17 18 19 20

71

Dethi:

Nomboro 700 u swika kha 750

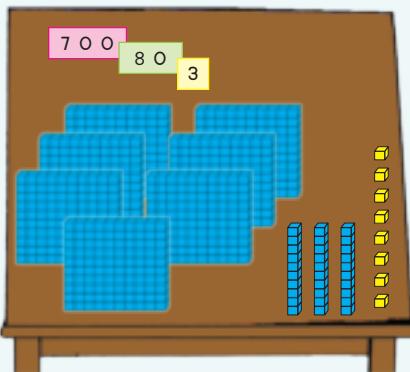
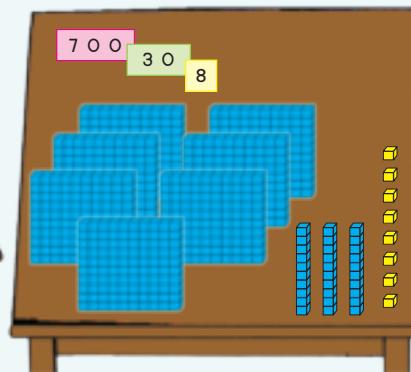
Themo ya 3



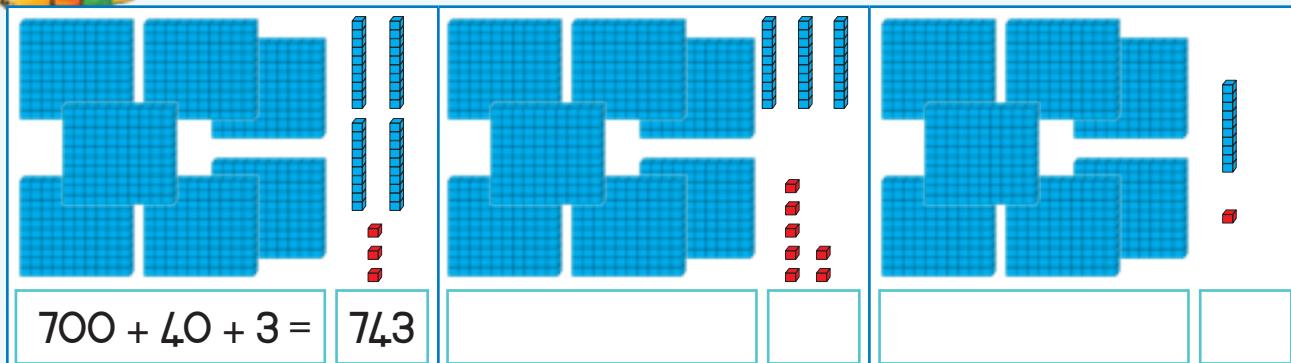
Peter u na garaña dzi tevhelaho
dza vhuimo ha nomboro na
zwibuloko zwa beisi ya fumi.

Mudededzi vha humbela Peter uri
a sumbedze 738 nga magaraña na
zwibuloko.

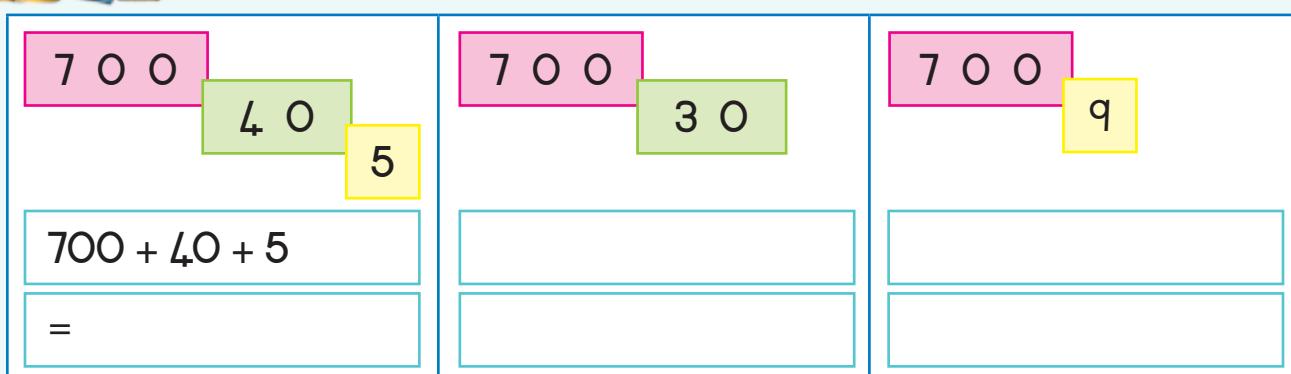
Ntakadzeni o sumbedza hezwi.
O ita zwifhio zwo khakheaho?



Nwalani fhungombalo ni tevhedze nga phindulo.



Nwalani fhungombalo ni tevhedze nga phindulo.





Fhedzisani mutualombalo.

699 700 701 709

Mpheni nomboro dzothe dzi re thukhu kha 704. _____

Mpheni nomboro dzothe dzi re khulwane kha 704. _____



Dzhenisani < kana > =

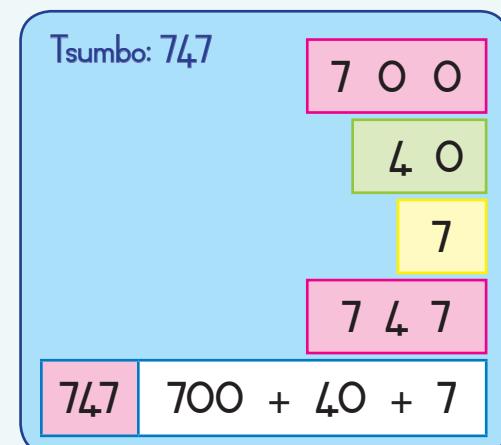
- a. 750 749 b. 732 723
c. $700 + 40 + 9$ 749



Pa^{du}kanyani nomboro yanu.

- a. Fhathani nomboro i^{nh}we na i^{nh}we nga magara^{ta} anu.
b. N^hwalani ve^lu ya didzhiti i^{nh}we na i^{nh}we. Zwino itani hezwi: Pa^{du}kanyani nomboro anu.

750	
728	
703	
730	
749	



N^hwalani madzina a mbalo.

714	
750	
742	
738	
704	



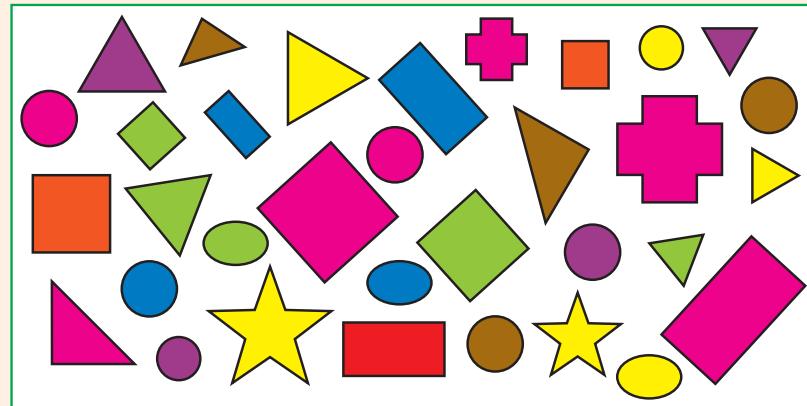
72



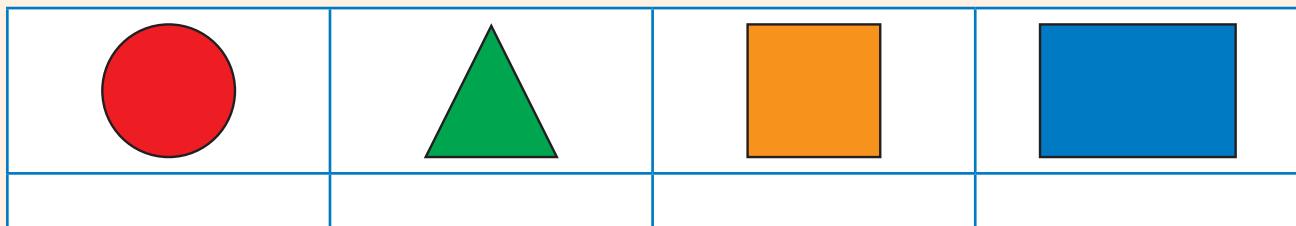
Dethi:

Themo ya 4

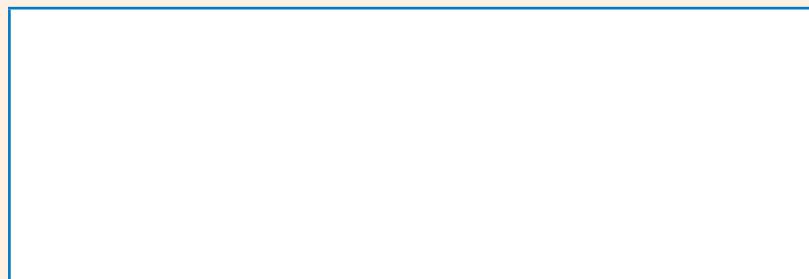
Bulani uri tshivhumbeo
tshi na lurumbutswititi
kana lwo kutaho naa.



Bulani uri tshivhumbeo tshi na vhurumbuswititi kana dza
zwipulumbu naa.



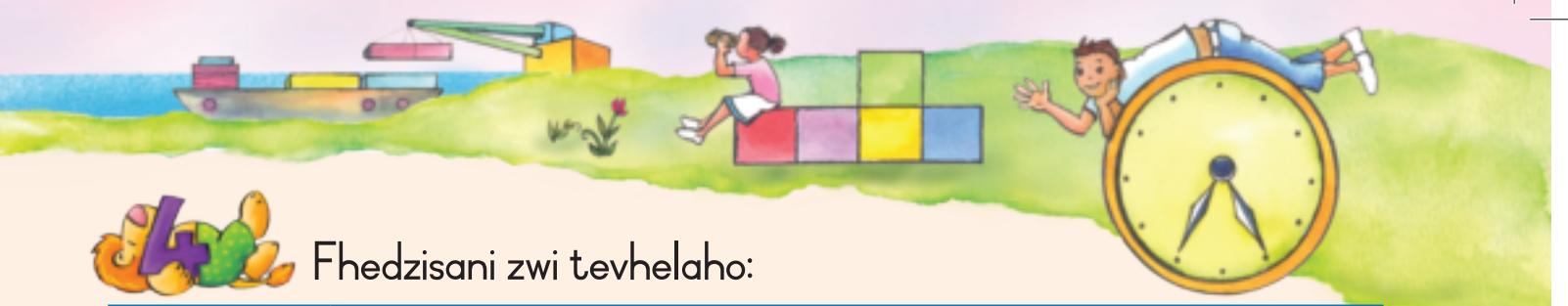
Ni nga ola zwivhumbeo
zwingana zwi re na
vhurumbuswititi.



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 zwimo zwe fhambananaho.
thiraiengele	
rekhitiengele	
tshikwea	



Fhedzisani thebulu:

	Bulani dzina la tshivhumbeo	Olani tshivhumbeo tsha tshi re tshi ^l uku	Olani tshivhumbeo tsha tshi re tshihulwane



Wanani zwikwea, thiraiengele, rekhitiengele na zwitendeledzi zwa saizi dzo fhambananaho kha mimagazini kana maguranda.

Zwi nambatedzeni hafha:

--



73

Mutanganyo na mutuso u swika kha 800

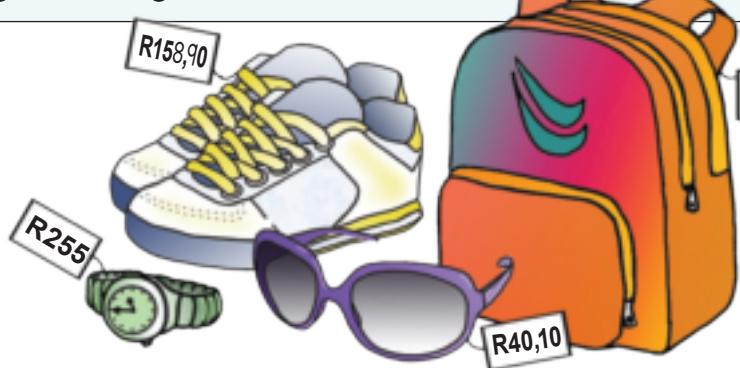
Dethi:

Themo ya 3



Ndi nga renga mini nga R500?

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



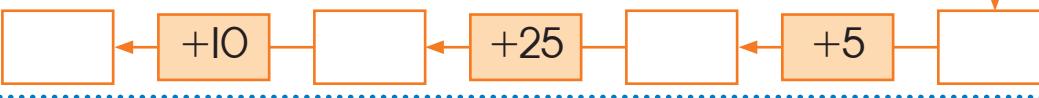
Tanganyani ni tshi ya phanda u bva kha 600.

Nwalani nomboro dzi no khou tahela.

Thomani



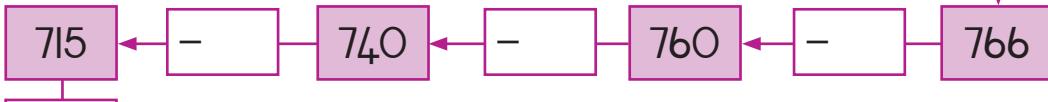
Gumani



Vhalani ni tshi humela murahu u bva kha 800.

Nwalani "tshintshi" hothe.

Thomani



705

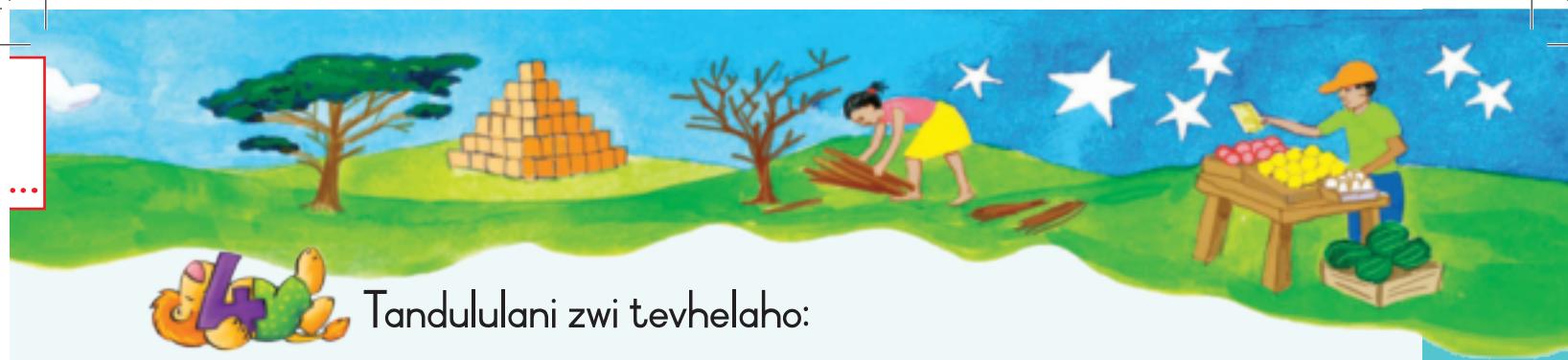
690

680

670

660

Gumani



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 miñwe mimavhulu ya 205, James o vha a tshi ðo vha e na ya tshivhalo tshi no lingana na tsha Ndavhe.

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

- a.
- b.



74

Mutanganyo na mutuso hafhu u swika kha 800

Dethi:

Themo ya 3

Miṭa ya nomboro.

Ri a kona u fhaṭa miṭa ya nomboro.
Mut̄a muṇwe na muṇwe 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.

Nwalani mafhungombalo a 4 a tshigwada tshiṇwe na tshiṇwe 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.

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



Lwendo lulapfu.

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

Musiiwa u ita hezwi:	Phophi u ita hezwi:
$352 - 166$ $\begin{array}{ccccccc} +4 & +30 & +100 & +52 \\ \hline 166 & 170 & 200 & 300 & 352 \end{array}$ $30 + 4 + 100 + 52$ $= 134 + 52 = 186 \text{ km}$	$352 - 166$ $\begin{array}{r} = 300 + 50 + 2 \\ - 100 + 60 + 6 \\ \hline = 300 + 40 + 12 \\ - 100 + 60 + 6 \\ \hline = 200 + 140 + 12 \\ - 100 + 60 + 6 \\ \hline = 100 + 80 + 6 \\ = 186 \text{ km} \end{array}$
Mbali u ita hezwi:	Peter u ita hezwi:
$352 - 166$ $166 + 100 \rightarrow 266 + 34 \rightarrow 300 + 52 \rightarrow 352$ $100 + 34 + 52 = 134 + 52 = 186 \text{ km}$	$352 - 166$ $\begin{array}{r} = 352 - 100 - 66 \\ = 252 - 66 \\ = 252 - 52 - 14 \\ = 200 - 14 \\ = 186 \text{ km} \end{array}$
Veronica u ita hezwi:	Livhu u humbula nga nyingakavhili (davhulu) na dzhafu:
$352 - 166$ $352 - 152 = 200$ $200 - 14 = 200 - 10 - 4$ $= 190 - 4$ $= 186 \text{ km}$	$Hafu ya 352 ndi 176$ $Fhedzi ndi tea u dzhia 166 fhedzi, zwino ndi t̄anganya (vhuyedzedza) murahu 10.$ $176 + 10 = 186 \text{ km}$

Ambani nga ndila dzo fhambaranaho. Ndi ndila ifhio ine na i takalelesa? Ngani?



Tandululani zwi tevhelaho kha bammbiri linwe:

Shumisani iñwe na iñwe ya ndila dzi re afho n̄tha.

$746 - 328$

$800 - 499$



11 12 13 14 15 16 17 18 19 20

75

Mutanganyo na mutuso u swika kha 800 hafhu

Dethi:

Themo ya 3



Fhatani mi^{ta} ya nomboro ya inwi mu^{ne}.

Nyito ya u didudedza.

Tsumbo: Vhumbani 17

5 | 2 | 17



$5 + 12 = 17$

$12 + 5 = 17$

$17 - 12 = 5$

$17 - 5 = 12$

8 | 9 | 17

$8 + 9 = 17$

$9 + 8 = 17$

$17 - 9 = 8$

$17 - 8 = 9$

Tolani!
Vhambedzani!
Lulamisani!

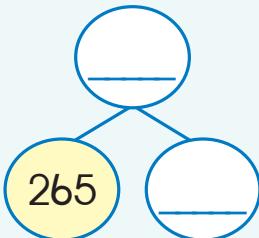
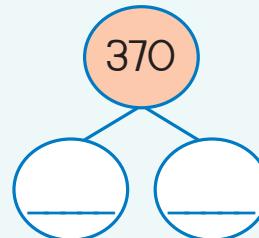
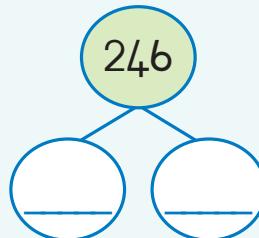
Ni tshi itela nomboro iñwe na iñwe i re afho fhasi, nangani dza 2 ni fhat^e mut^a.

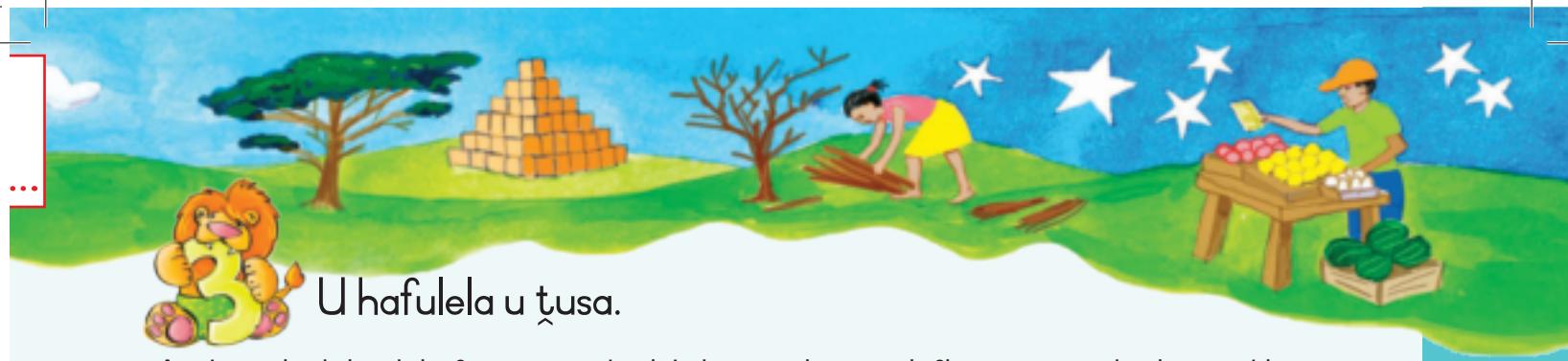
Nwalani mafhungombalo ma^{na} (mavhili a + na mavhili a -) kha mut^a muñwe na muñwe wa nomboro.

			+	+	-	-
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 t̄usa.

Arali ni tshi ḋivha dzihafu na nyungakavhili dzanu, tshiñwe tshifhinga ni nga dzi shumisa kha u t̄anganya kana u t̄usa. **Tsumbo:**

$$34 - 18 = 16$$

$$34 - 17 = 17$$

$$17 - 1 = 16$$

$$190 - 97$$

$$190 - 95 = 95$$

$$95 - 2 = 93$$

$$65 + 69$$

$$65 + 65 = 130$$

$$130 + 4 = 134$$

$$242 + 249$$

$$= 242 + 242 + 7$$

$$= 484 + 7$$

$$= 491$$

Zwino edzisani hezwi:

$$340 - 176$$

$$145 + 148$$

$$900 - 452$$



Sedzesani ndila (ngona).

Muñwe na muñwe wa vhana vha 256 u wana mpho ya Khirisimusi. Hafu yavho vha fhiwa mipopi ngeno iñwe hafu i tshi fhiwa zwimodoro. Ndi vhangana vhe vha fhiwa zwimodoro.

Ndila 1	Ndila 2
$256 = 200 + 50 + 6$ <ul style="list-style-type: none"> → Hafu ya 200 ndi 100 → Hafu ya 50 ndi 25 → Hafu ya 6 ndi 3 $100 + 25 + 3 = 128$ → Hafu ya 256 ndi 128 <p>Zwi amba uri vha 128 vha fhiwa zwimodoro.</p>	<ul style="list-style-type: none"> → Hafu ya 250 = 125 → Hafu ya 6 ndi 3 $125 + 3 = 128$ → Hafu ya 256 ndi 128, <p>Zwi amba uri vha 128 vha fhiwa zwimodoro.</p>



Tandululani zwi tevhelaho kha bammbiri l̄inwe:

Shumisani iñwe na iñwe ya ndila dzi re af'ho nt̄ha.

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

Muñwe na muñwe 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.



76

Phetheni dza nomboro:

u bva kha mahumi u swika kha 800

Dethi:

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; _____ ; _____ ; _____

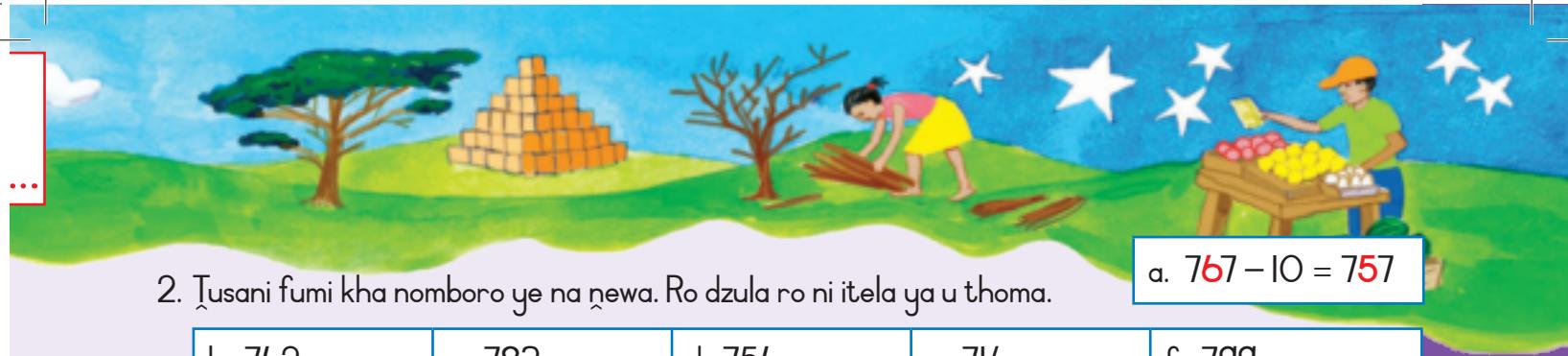


Tanganyani kana ni tuse fumi.

- I. 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 _____



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

a. $767 - 10 = 757$

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

3. Hu bvelela mini musi ni tshi tanganya kana u tusa fumi kha nomboro dici re afho nthā?

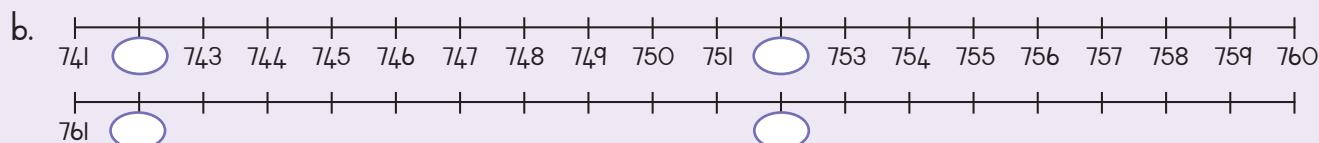
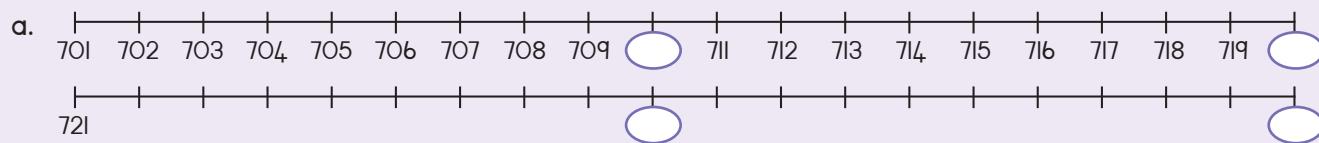


Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo ya nomboro.

- a. Ndi zwifhio zwine na vhona kha zwitendeledzi izwi? _____
- b. Tharamudzani thevhēkano ya nomboro dici tevhelelaho:
704; 714; 724; _____ ; _____ ; _____
715; 725; 735; _____ ; _____ ; _____
799; 789; 779; _____ ; _____ ; _____
782; 772; 762; _____ ; _____ ; _____
737; 747; 757; _____ ; _____ ; _____



Dzhenisani (ñwalani) nomboro yone tshitendeledzini tshiñwe na tshiñwe 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 tħukku kha sumbe nga thihi.



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



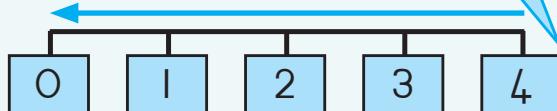
77

U sendedza tsini zwa vha mahumi

Dethi:

Themo ya 3

Nomboro dzothe u thoma kha 4 u ya murahu dzi do sendedzwa tsini dza vha O.

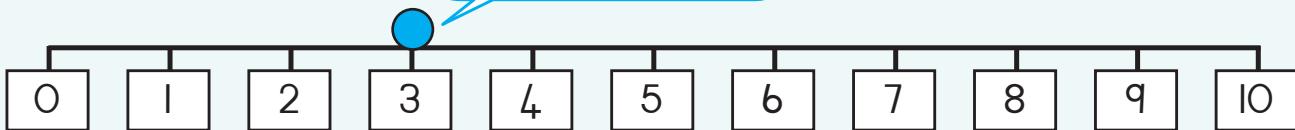


Nomboro dzothe u thoma kha 5 u ya phanda dzi do sendedzwa tsini dza vha 10.



Kha ri ambe

Lavhelesani 3 kha mutualombalo.



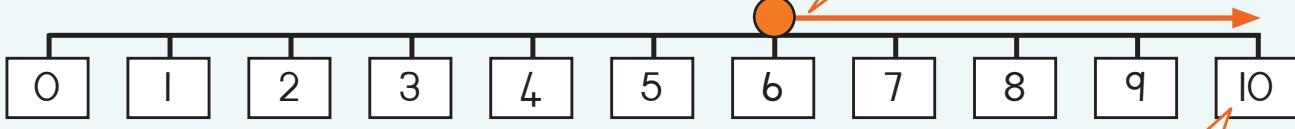
3 i do vha mini musi yo sendedzwa tsini?



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

Itani zwi no fana (zwenezwo) kha:

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



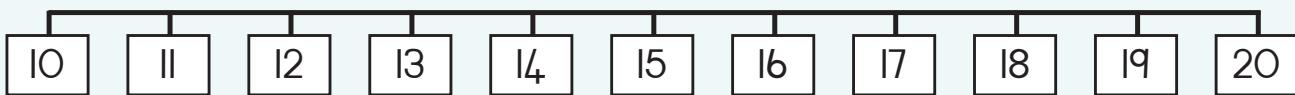
Phindulo i do vha 10.



Sendedzani tsini na 10 ya tsinisa.

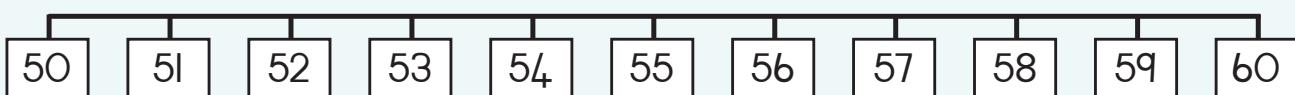
12 yo sendedzwa tsini ndi? _____

19 yo sendedzwa tsini ndi? _____



53 yo sendedzwa tsini ndi? _____

58 yo sendedzwa tsini ndi? _____

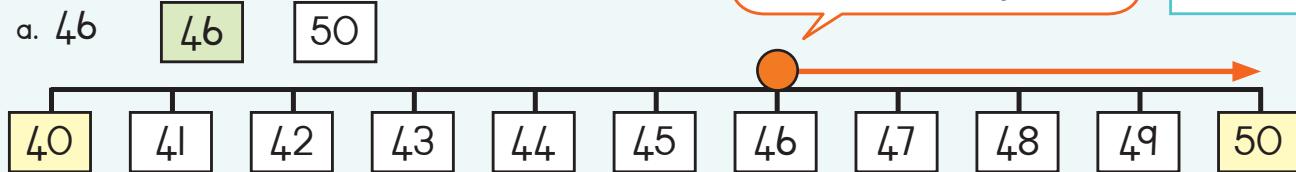




Sendedzani kha 10 ya tsinisa ni tshi shumisa mitalombalo uri i ni tshuse.

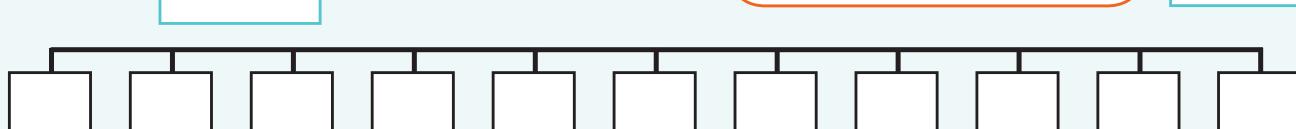
- a. 46

46 i vhukati ha fumi nngana mbili?



- b. 63

63 i vhukati ha fumi nngana mbili?



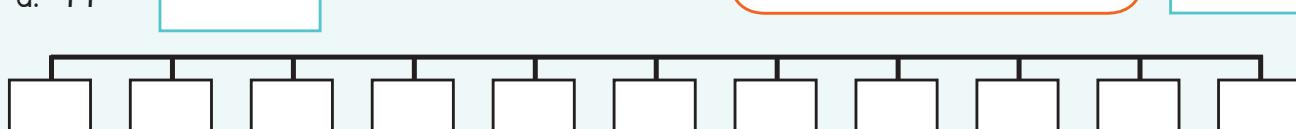
- c. 37

37 i vhukati ha fumi nngana mbili?



- d. qq

qq i vhukati ha fumi nngana mbili?



Tom u na R48,00.



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

A nga kona u renga phakhethe nngana dza maqarata nqa R48,00?

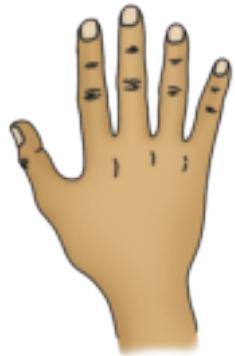


Mutanganayo: t̄hanu u swika kha 75

Themo ya 3

Ndi zwifhio zwi re
zwiłanuzwiłanu?

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:

$$9 \times 5 = 45$$

$$7 \times 5 = 35$$

$$\textcolor{red}{2} \times 5 = 10$$

$$4 \times 5 = 20$$

$$3 \times 5 = 15$$

$$5 \times 5 = 25$$

$$10 \times 5 = 50$$

$$6 \times 5 = 30$$

$$8 \times 5 = 40$$



Fhedzisani thebulu.

Uvhea 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	

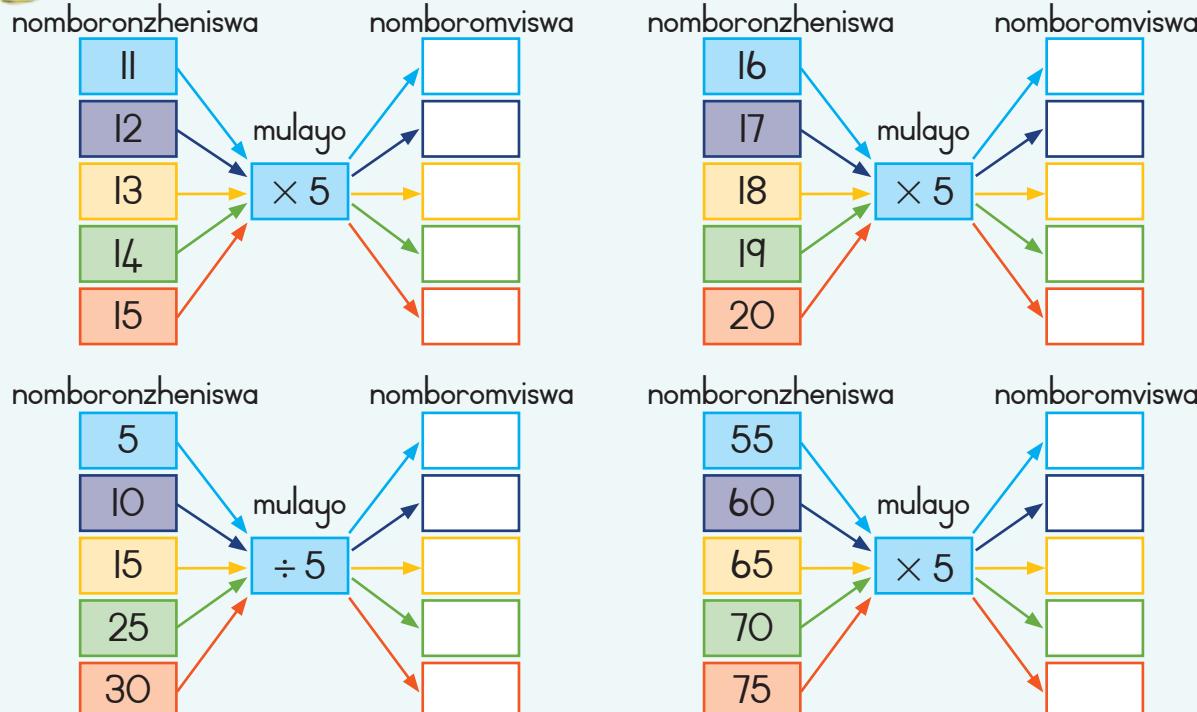


Fhedzisani thebulu.

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



Fhedzisani nyolo dza muelo.



Fhedzisani thebulu dici re afho fhasi:

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

\times	II	I2	I3	I4	I5	I6	I7	I8	I9	I20
5										

Phindulo dzine dza tea u r̄walwa kha zwibuloko zwa lutombo no dici wanisa hani?



Tandululani zwi tevhelaho:

Mme anga vho renga phakhetha dza malegere dici no dura R70. Vho renga phakhetha nthihi nga R5.
Ndi phakhetha nngana dza malegere dze vha renga?



II I2 I3 I4 I5 I6 I7 I8 I9 I20

79

Phetheni dza nomboro:

u bva kha ḫanu u ya kha 800

Dethi:

Themo ya 3



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

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

Vhalani ni tshi ya murahu nga ḫanu 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 ḫuse ḫanu.

- I. Tanganyani ḫanu kha nomboro ye na ḫewa. Ro dzula ro ni itela ya u thoma.

a. $760 + 5 = 765$

b. 725	c. 780	d. 755	e. 715	f. 790
--------	--------	--------	--------	--------



2. T̄usani t̄hanu kha nomboro ye na n̄ewa. 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 musi ni tshi t̄anganya kana u t̄usa t̄hanu kha nomboro dzi re afho nt̄ha?

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:

703; 708; 713; _____ ; _____ ; _____

753; 758; 763; _____ ; _____ ; _____

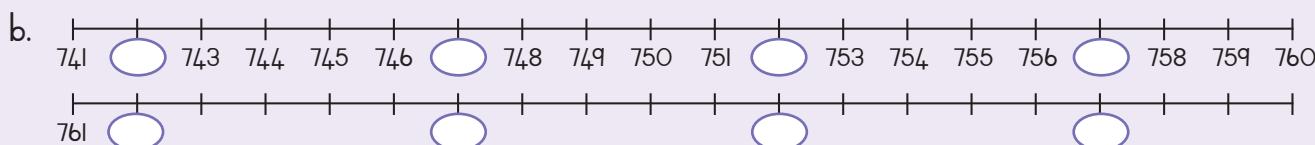
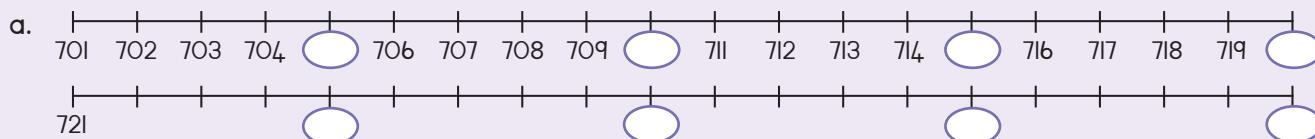
701; 706; 711; _____ ; _____ ; _____

722; 727; 732; _____ ; _____ ; _____

714; 719; 724; _____ ; _____ ; _____



Dzhenisani (ñwalani) nomboro yone tshitendeledzini
tshiñwe na tshiñwe 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 t̄hukku kha sumbe nga thihi.

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



Tshifhinga tsha masiari na tshifhinga tsha vhusiku

Themo ya 3



Cape Town

Thebu_lu i re afho fhasi i sumbedza u tsha ha \ddot{d} uvha na u kovhela halo nga zwifhinga zwo fhambananaho doroboni ya Cape Town. Vhalani zwifhinga zwi re kha thebu_lu iyi ni kone u dadza thebu_lu nga zwithu zwo teaho musi ni sa athu fhindula mbudziso dzi re afho fhasi.



Cape Town	U tsha ha \ddot{d} uvha	U kovhela ha \ddot{d} uvha	Vhulapfu ha \ddot{d} uvha	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		

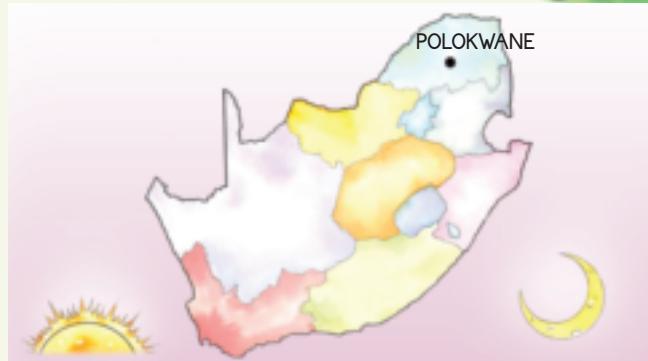
- Ndi nga \dot{n} wedzi ufho hune masiari na vhusiku zwa vha zwo lapfa u fana? _____
- Ndi \dot{n} wedzi ufho une wa vha na ma \dot{d} uvha malapfusa? _____
- Ndi \dot{n} wedzi ufho une wa vha na ma \dot{d} uvha mapfufhisa? _____
- Wanani phambano ya awara na miminete vhukati ha \ddot{d} uvha \dot{l} lapfusa na \ddot{d} uvha \dot{l} ipfufhisa. _____
- Wanani vhulapfu ha masiari na vhusiku zwa deithi \dot{i} nwe na \dot{i} nwe afho kha thebu_lu. _____



2

Polokwane

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



Polokwane	U tsha ha duvha	U kovhela ha duvha	Vhulapfu ha duvha	Vhulapfu ha vhusiku
Thafamuhwe 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 nwedzi ufho hune masiari na vhusiku zwa vha zwo lapfa u fana?
- Ndi miwedzi ifho kha yeneyi hune vhulapfu ha duvha ha fana hothe Cape Town na Polokwane?
- Ndi nga miwedzi ifho hune zwa fhambana?
- Wanani phambano ya awara na miminete vhukati ha duvha lalapfusa na duvha lipufufhisa.
- Wanani vhulapfu ha masiari na vhusiku zwa deithi inwe na inwe afho kha thebulu.



Humbelani muñwe muthu a ni thuse u wana zwifhinga zwa u tsha na u kovhela ha duvha afho hune na dzula hone.

Zwi nweleni kha vhege nthihi. Maduvha a khou lapfa kana a khou pfufhfala?



81

Dethi:

Muandiso: mbili u swika kha 75

Themo ya 3

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



Fhedzisani thebułu.

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 thebułu.

U kovhela

Kovhani

Kovhani zwa 21 kha vha 2

$$21 \div 2 = 10 \text{ ha sala } 1$$

Kovhani zwa 33 kha vha 2

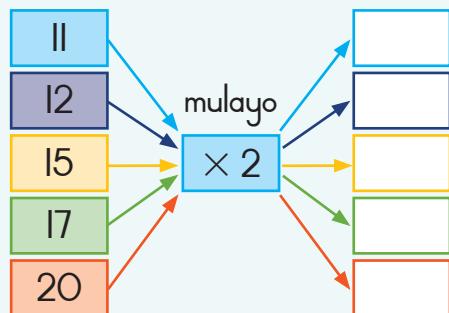
Kovhani zwa 67 kha vha 2

Kovhani zwa 75 kha vha 2



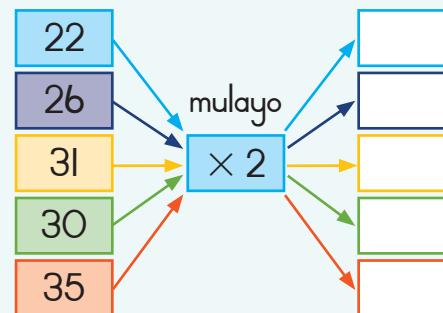
Fhedzisani nyolo dza muelo.

nomboronzheniswa



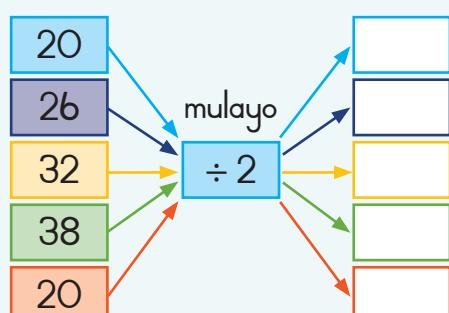
nomboromviswa

nomboronzheniswa



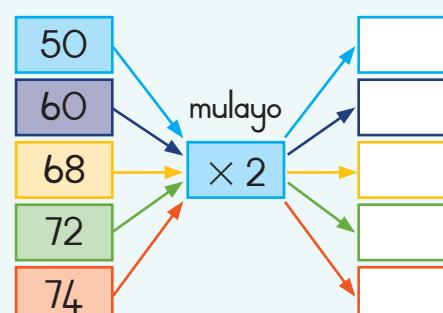
nomboromviswa

nomboronzheniswa



nomboromviswa

nomboronzheniswa



nomboromviswa



Fhedzisani thebulu dici re afho fhasi:

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

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



Thasululani zwi tevhelaho:

Ndo renga malegere a thanda a 36 nga R2.

Ndo a renga nga R50, R20 na nga khoini ya R5.

Tshintshi yanga yo vha vhugai?



II I2 I3 I4 I5 I6 I7 I8 I9 I20

Phetheni dza nomboro:

mbilimbili (dzi2) u swika kha 800

Dethi:

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 vhala 700
nga mbili?

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

Ndi mini tshi no rangela 750 musi ni 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 mitevhe ya nomboro.

720; 722; 724; _____ ; _____ ; _____

800; 798; 796; _____ ; _____ ; _____



Tanganyani kana ni t̄use mbili.

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

a. $764 + 2 = 766$

b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____



2. Ḧusani mbili kha nomboro ye na ḥewa. 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 musi ni tshi ṭanganya kana u ṭusa mbili kha nomboro dici re afho nt̄ha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledzi izwi? _____

b. Ḩaramudzani mitevhe i tevhelaho ya nomboro:

701; 703; 705; _____ ; _____ ;
725; 727; 729; _____ ; _____ ;

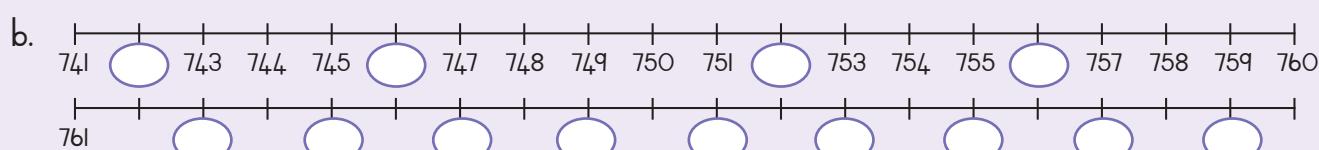
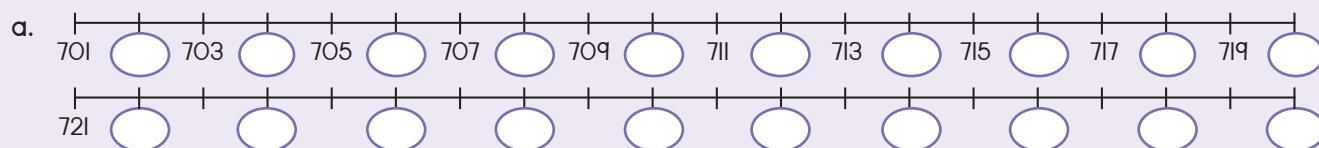
799; 797; 795; _____ ; _____ ;

783; 785; 787; _____ ; _____ ;

779; 781; 783; _____ ; _____ ;



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 nt̄ha nga nomboro i no fhira 7 nga mbili, nahone didzhiti ya u fhedzisela ndi ṭhukhu kha sumbe nga nn̄a.



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



11 12 13 14 15 16 17 18 19 20

83

Muandiso:

dzi2 na dzi5 u swika kha 75

Dethi:

Themo ya 3



Ni nga kona u fhindula zwi tevhelaho nga luvhilo lungafhani?

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



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	Kuvhekanye	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	Kuvhekanye	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

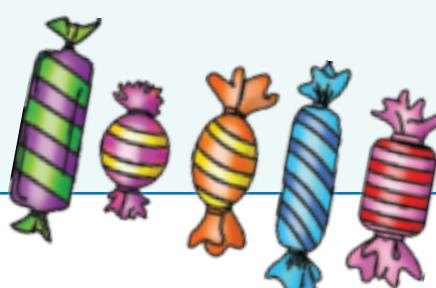


Thasululani zwi tevhelaho:

Ndo renga malegere a 14 nga R3.

Khonani yanga o renga malegere a 12 nga R5.

Vhuvhili hashu ro badela vhugai ya malegere?



Teacher: Sign:
Date:

Muandiso: tharu i swika kha 75

Dethi:

Themo ya 3

Ndi zwifhio zwi no
tshimbila nga
zwiraruzwiraru?
Mavhili a thiraisikili



Fhedzisani theбуlu.

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 ٹhanganyelo na
mbudziso i re kha tsha monde:

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

Uvheo nga zwigwada

Andisanī

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 theбуlu.

U kovhela

Kovhani

Kovhani zwa 37 kha vha 3

$37 \div 3 = 12 \text{ ha sala } 1$

Kovhani zwa 74 kha vha 3

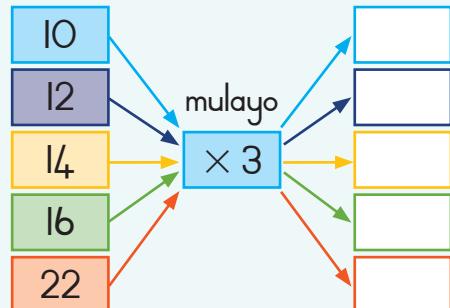
Kovhani zwa 49 kha vha 3

Kovhani zwa 68 kha vha 3



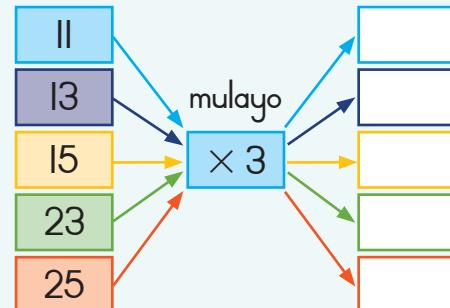
Fhedzisani nyolo dza muelo.

nomboronzheniswa



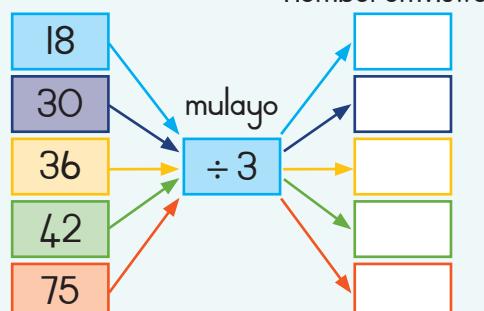
nomboromviswa

nomboronzheniswa



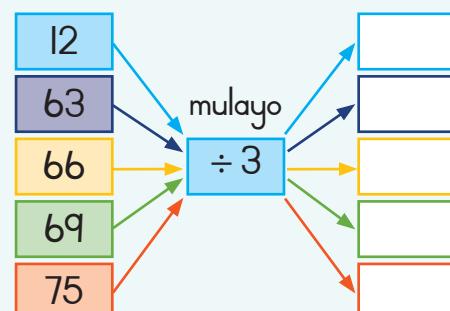
nomboromviswa

nomboronzheniswa



nomboromviswa

nomboronzheniswa



nomboromviswa



Fhedzisani thebulu dici re afho fhasi:

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

\times	I6	I7	I8	I9	I20	I21	I22	I23	I24	I25	I26	I27	I28	I29	I30
4															

Phindulo dici re kha zwibuloko zwa muvhala wa lutombo no dici wanisa hani?



Thasululani zwi tevhelaho:



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



II I2 I3 I4 I5 I6 I7 I8 I9 20

85

Muandiso:

Dethi:

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	$2 \times - = -$ $4 \times - = -$ $- \div - = -$ $- \div - = -$

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.

$$63 \div 3$$

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

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

$$= 20 + 1$$

$$= 21$$

$$21 \times 3$$

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

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

$$= 60 + 3$$

$$= 63$$

a. $48 \div 5$

b. $64 \div 5$



Thasululani zwi tehelaho:

Nne ndi na khonani dzanga ri na R63 ro tanganelo.

Ri khou tnodou i kovhekana ri vhararu.

Munwe no munwe u do wana vhugai?



<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
Teacher: Sign: Date:	

11 12 13 14 15 16 17 18 19 20

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 ṭhanu u bva kha
799 u swika kha 703.

Ndi nomboro dzifhio dici 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 ṭuse raru.

- I. Tanganyani raru kha nomboro ye na ḥewa.
Ro dzula ro ni itela ya u thoma.

$$a. 766 + 3 = 769$$

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

1 2 3 4 5 6 7 8 9 10



2. Ḧusani raru kha nomboro ye ya na ḥewa. 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 musi ni tshi ṭanganya kana u ṭusa 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. Ḩaramudzani mitevhe i tevhelaho ya nomboro:

$704; 707; 710; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}$

$782; 785; 788; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}$

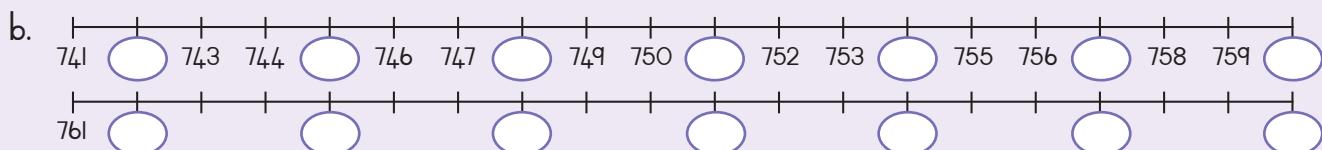
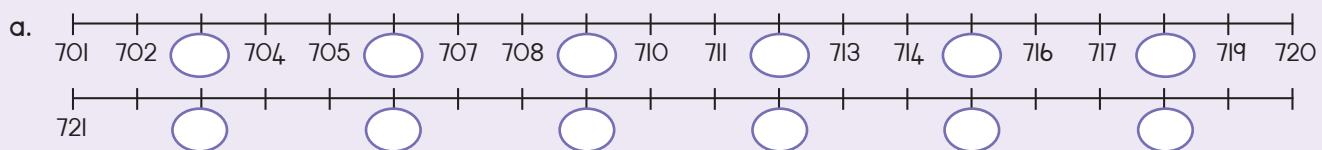
$773; 776; 779; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}$

$779; 772; 785; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}$

$779; 776; 773; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}; \underline{\hspace{1cm}}$



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 n̄tha nga nomboro i no f'hira sumbe nga mbili, nahone didzhiti ya u f'hadzisela ndi ṭukhu 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: dzii_{na} u swika kha 75

Dethi:

Themo ya 3

Ndi zwifhio zwi no
tshimbila nga zwi_nazwi_n?
Mavhili a modoro



Hu na mavhili mangana
kha

Goloi ya 1?

Goloi dza 2?

Goloi dza 3?

Goloi dza 4?

Goloi dza 5?

Goloi dza 6?

Goloi dza 7?

Goloi dza 8?

Goloi dza 9?

Goloi dza 10?

Livhangani t_hanganyelo na
mbudziso i re kha tsha monde:

$$9 \times 4 = 36$$

$$7 \times 4 = 28$$

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

$$4 \times 4 = 16$$

$$3 \times 4 = 12$$

$$5 \times 4 = 20$$

$$1 \times 4 = 4$$

$$10 \times 4 = 40$$

$$6 \times 4 = 24$$

$$8 \times 4 = 32$$



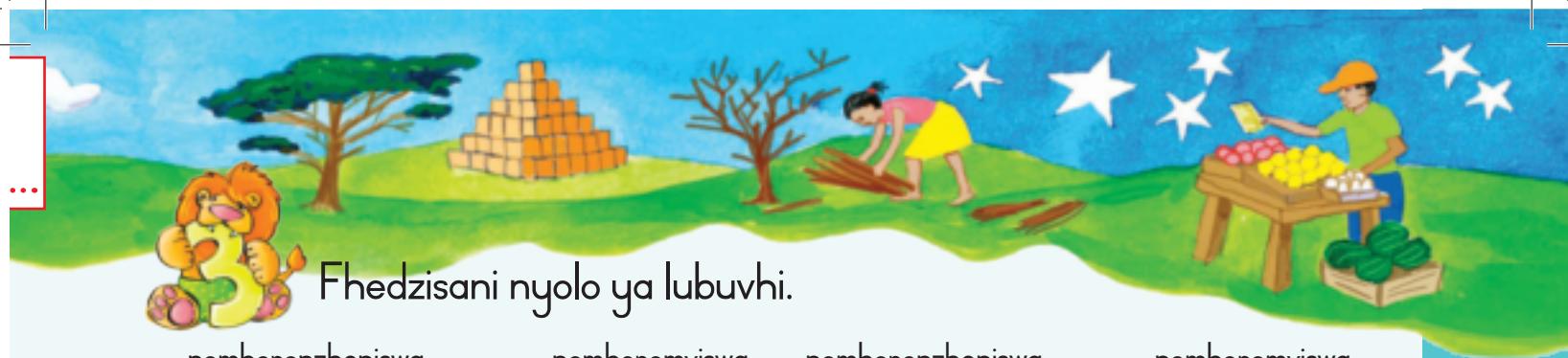
Fhedzisani theбу_{lu}:

U vhea nga zwigwada	Andisani	U kovha	Kovhani
Zwigwada zwa 12 zwa 4	$12 \times 4 = \textcolor{red}{48}$	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	



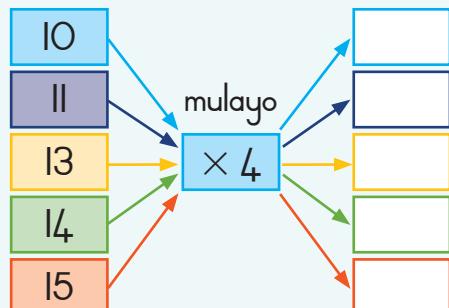
Fhedzisani theбу_{lu}:

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	



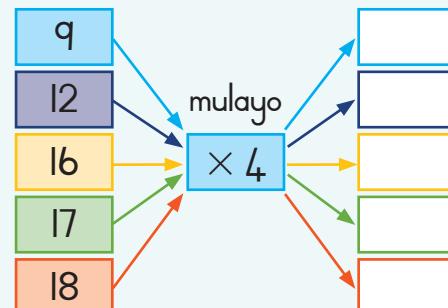
Fhedzisani nyolo ya lubuvhi.

nomboronzheniswa



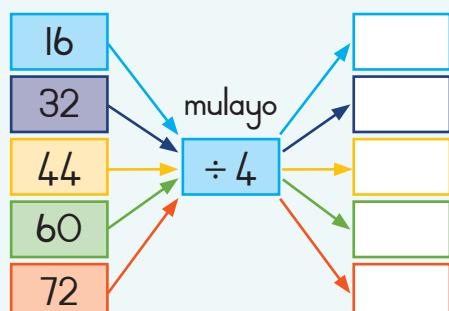
nomboromviswa

nomboronzheniswa



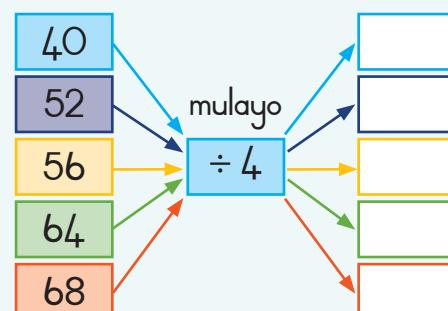
nomboromviswa

nomboronzheniswa



nomboromviswa

nomboronzheniswa



nomboromviswa



Fhedzisani thebulu dici re afho fhasi:

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

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

Phindulo dici re kha zwibuloko zwa muvhala wa lutombo no dici wanisa hani?



Thasululani zwi tevhelaho:

Ndi na R75.

Ndi zwipida zwingana zwituku zwa mpho zwa R4 zwine nda nga renga?



11 12 13 14 15 16 17 18 19 20

nomboro u swika kha 800

Dethi:

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
musi ni tshi vhalala nga inainā?

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

Ndi mini tshi no rangela 776 musi ni 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 mutevhe wa nomboro.

704; 708; 712; _____ ; _____ ; _____

724; 728; 732; _____ ; _____ ; _____



Tanganyani kana ni t̄use ina.

- I. 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. Tusani ina kha nomboro ye na newa. Ro dzula ro ni itela ya u thoma.

$$a. 764 - 4 = 760$$

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

3. Hu bvelela mini musi ni tshi tanganya kana u tusa ina kha nomboro dzi re afho ntsha?

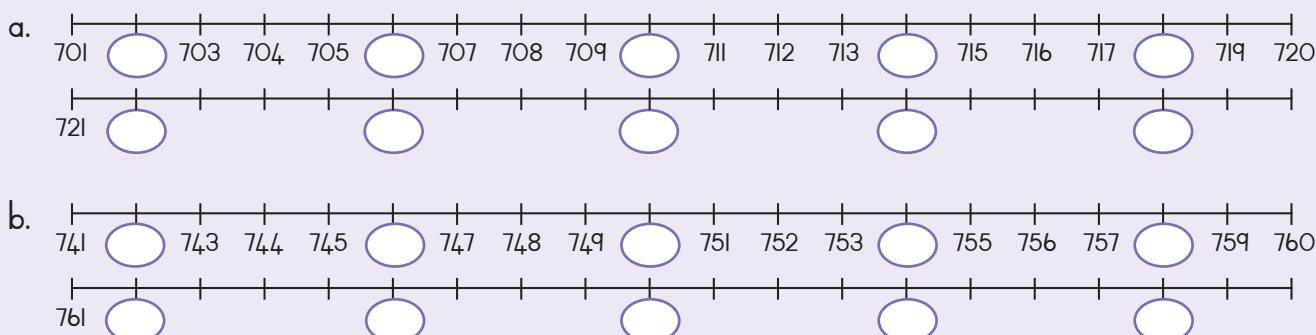


Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

- a. Ni vhona mini kha zwitendeledi izwi? _____
- b. Tharamudzani mitevhe i tevhelaho ya nomboro:
703; 707; 711; _____ ; _____ ; _____
773; 777; 781; _____ ; _____ ; _____
711; 715; 719; _____ ; _____ ; _____
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 ntsha nga nomboro i no fhira 7 nga nthihi, nahone didzhiti ya u fhedzisela ndi thukhu kha sumbe nga raru.

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



89

Muandiso na mukovho:

dzi2, dzi3 na dzi5 u swika kha 75

Dethi:

Themo ya 3



Ni nga kona u fhindula zwi tevhelaho nga luvhilo lungafhani?

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

Khalarani zwibuloko zwine khazwo thanganyelo
ya ni fha tshitahahe.

$12 \div 2 =$ 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 thanganya dzididzhi dza nomboro (tsumbo, 72 i na didzhi 7 + 2 = 9) ni nga kona u kovha nomboro iyi ntswa nga 3 (tsumbo 9 i a kovhea nga 3).
- 2? _____
- 5? _____

1 2 3 4 5 6 7 8 9 10



Kovhani ni linge phindulo yanu.

$$65 \div 3$$

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

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

$$= 20 + 1 \text{ ha sala } 2$$

$$= 21 \text{ ha sala } 2$$

$$21 \times 3 + 2$$

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

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

$$= 60 + 3 + 2$$

$$= 65$$

a. $49 \div 5$

b. $65 \div 5$



Thasululani zwi tehelaho:

Ni tea u ya na ita thodisiso.

Ni zwi dīvha hani uri nomboro i nga kovhea nga 4?



Teacher: Sign:
Date:

11 12 13 14 15 16 17 18 19 20

90



Dethi:

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?



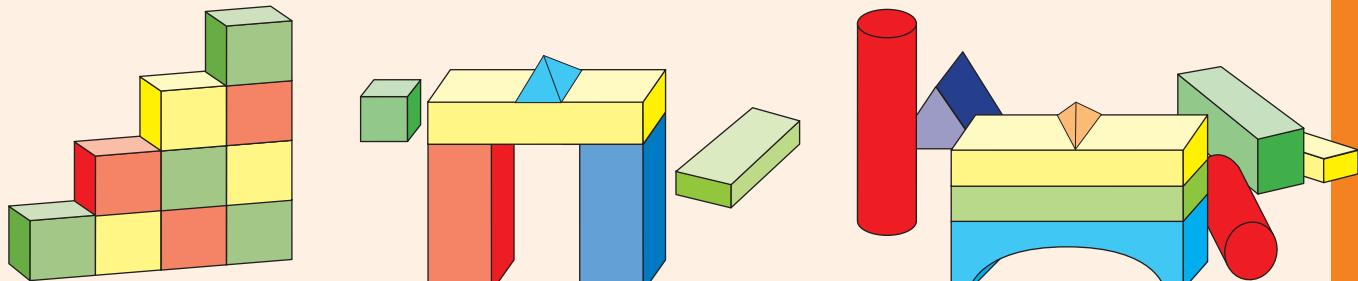
c. Silinda

d. Silinda na yone
i nga swenda?



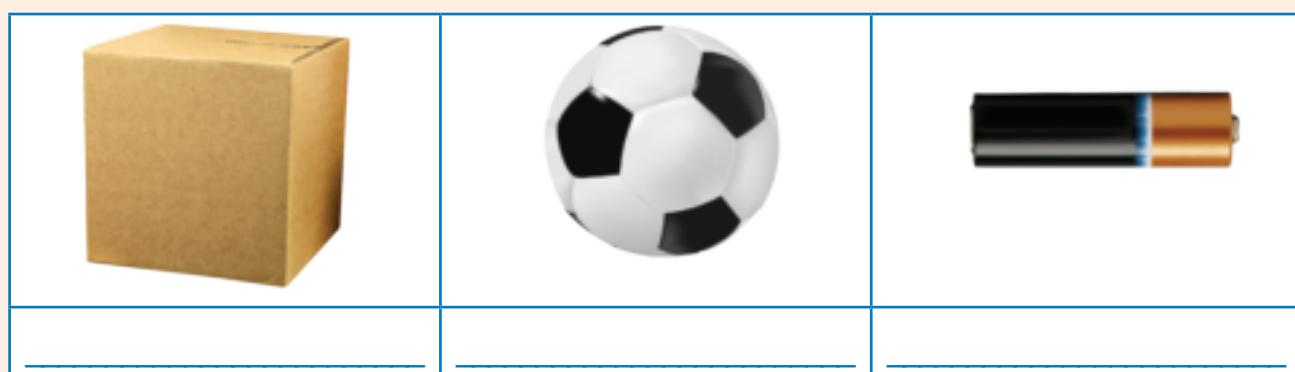
Bulani madzina a zwithu zwe
zwa shumiswa tshifanyisoni tshiñwe na tshiñwe.

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





Bulani uri tshithu tsha 3-D tshi na vhurumbunṭha ha ngovhe (ho kutaho).



Olani zwi tevhelaho:

Bogisi ḥo dzula (balantsa) kha silinda.	Bola yo dzula (balantsa) kha silinda.	Silinda yo dzula (balantsa) kha bogisi.





Khithi ya zwibammbiri zwa furakhisheni

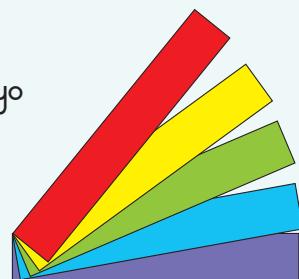
Dethi:

Themo ya 3

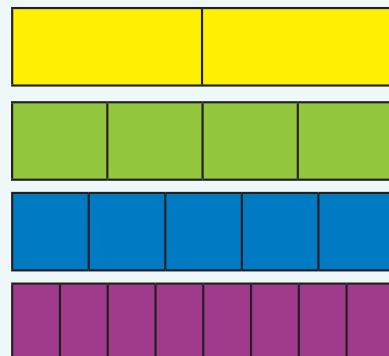


Itani khithi
Tshigeriwa 5

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



Yo $\ddot{\text{x}}$ he Nthihi



Kha lubammbiri luthihi nwalani maipfi: Yo $\ddot{\text{x}}$ he Nthihi

Dzhiani lu $\ddot{\text{n}}$ we lubammbiri ni lu pete nga vhukati. Ni kone u lu putulula. Hu na zwipi $\ddot{\text{d}}$ a zwingana zwi no lingana?

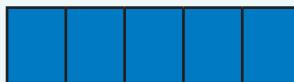
Nwalani $\frac{1}{2}$ kha hafu i $\ddot{\text{n}}$ we na i $\ddot{\text{n}}$ we ni gere ni tshi tevhedzela he na peta.

Dzhiani lubammbiri lwa vhuraru ni lu pete nga vhukati, dovhani ni pete hafhu nga vhukati. Lu putululeni. Hu na zwipi $\ddot{\text{d}}$ a zwingana zwi no lingana? Nwalani $\frac{1}{4}$ kha tshai $\ddot{\text{n}}$ a tshi $\ddot{\text{n}}$ we na tshi $\ddot{\text{n}}$ we ni gere ni tshi tevheledzela he na peta.

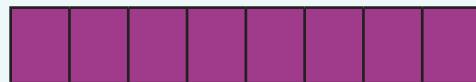
Zwino edzisani u ita vhubammbiri vhuvhili hafhu, luthihi lu tshi sumbedza zwararu lu $\ddot{\text{n}}$ we lu tshi sumbedza zwamalo



Shumisani zwipi $\ddot{\text{d}}$ a zwa khithi ya furakhisheni uri zwi ni thuse kha u fhindula mbudziso idzi.



Ndi hafu nngana dzi no lingana
na yo $\ddot{\text{x}}$ he nthi?



Ndi zwai $\ddot{\text{n}}$ a zwingana zwi no
lingana na hafu nthihi?

Furakhisheni kha mutalombalo.

Lubammbiri ulu lu sumbedza yo $\ddot{\text{x}}$ he nthihi.

Yo $\ddot{\text{x}}$ he Nthihi

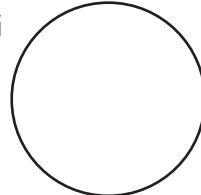
Tshitendeledzi itsi tshi
sumbedza yo $\ddot{\text{x}}$ he nthihi.



Khethekanyani lubammbiri lu bve zwararu.

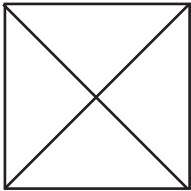
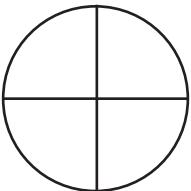
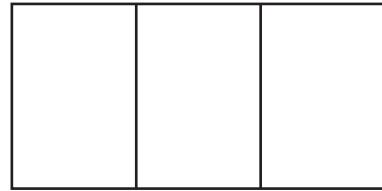
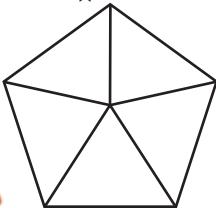
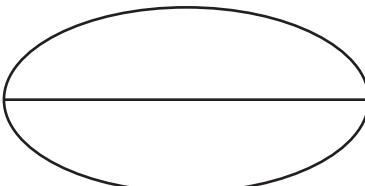
Khalarani tshararu.

Khethekanyani tshitendeledzi
tshi bve zwararu.
Khalarani tshararu.





Zwino khalarani zwi tevhelaho:

Hafu nthihi 	Kota tharu 	Zwararu zwivhili 
Zwathanu zwiña 	Hafu nthihi 	Kota tharu 



Olani zwi tevhelaho:

Kota tharu ni tshi shumisa zwikwea.	Hafu nthihi ni tshi shumisa tshitendeledzi.	Zwararu zwivhili ni tshi shumisa thiraiengele.
Zwathanu zwiña ni tshi shumisa tshitendeledzi.	Zwamalo zwiña ni tshi shumisa zwikwea.	Zwararu zwivhili ni tshi shumisa rekhithiengle.



Lugisani khithi yanu.

- Gerani tshinwe na tshinwe tsha zwitendeledzi zwa **6** kha Tshigeriwa **6**.
- Gerani zwiñanu zwa zwitendeledzi kha mitaladzi zwi bve zwipidapida
- Lebulani tshipida tshinwe na tshinwe:
 - Kha luñwe lurumbu ñwalani furakhisheni ya awara yothe.
 - Kha luñwe lurumbu ñwalani tshivhalo tsha minete i re kha furakhisheni yeneyo.



11 12 13 14 15 16 17 18 19 20

q2

Dethi:

Furakhisheni dzinwe hafhu

Themo ya 3



Nwalani Ee kana Hai.

- Hafu ndi hafu ya Yo^{the} Nthihi
- Hafu ya hafu ndi kota nthihi
- Kota ndi hafu ya hafu
- Hafu nthihi na kota mbili zwi ita yo^{the}
- Hafu na kota zwi ita kota tharu



Kovhani phai.

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



a.

Ndi na n^gdal!
Ndi khou t^oda hafu.

Sipho



Olani mukovhe wa Sipho.

b.

Zwo luga! Ndi d^o
dzhia kota.

Gugu



Olani mikovhe ya Sipho na Gugu.

c.

N^ge ndi d^o
dzhia hafu ya ye ya sala.

Andile



d.

N^ge ndo
salelwa nga phai
nngafhani?

Lisa

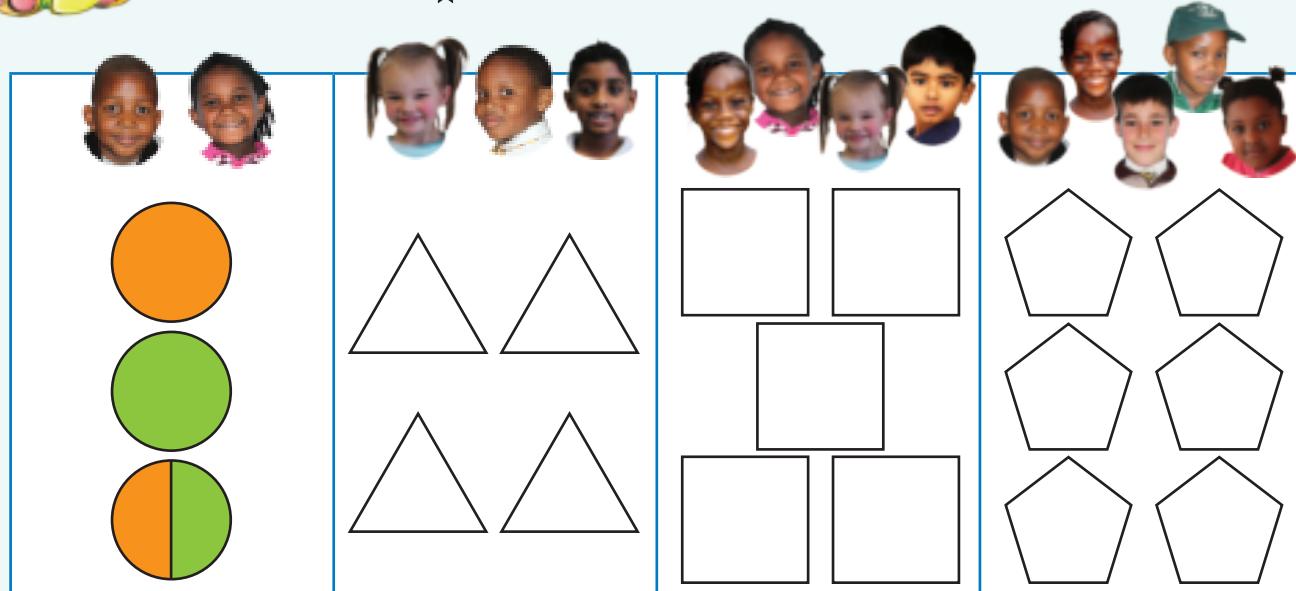


Olani mikovhe ya Sipho, Gugu na Mulalo.

Olani miⁿwe mikovhe yo^{the} ya phai.



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



Khonani n̄a dzi kovhekana malegere a
likhwarazi a 5 a zwitanda nga u lingana.

Munwe na munwe u do wana mangana?

Mbudziso ndi ifhio?

Nomboro ndi dzifhio?

Olani tshifanyiso.

Khonani dza rathi dzi kovhekana malegere a
likhwarazi a 9 a zwitanda nga u lingana.

Munwe na munwe u do wana mangana?

Mbudziso ndi ifhio?

Nomboro ndi dzifhio?

Olani tshifanyiso.



Teacher:
Sign:
Date:

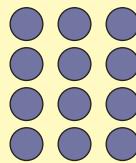
q3

Ukovhekanya zwi tshi livha kha furakhisheni

Dethi:

Themo ya 3

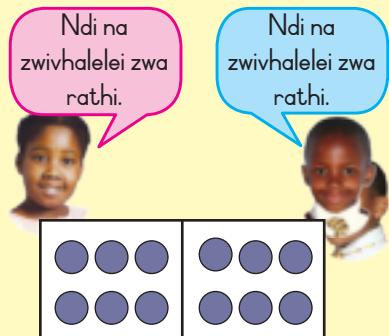
Zwivhaleli zwa 12 khezwi.



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

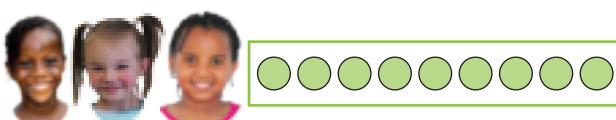


Ri kovhekana zwivhaleli zwa fumimbili vhuvhili hashu.



Itani nyolo ya zwi tevhelaho ni fhindule mbudziso.

Bola dza tahe dzi kovhelwa khonani tharu.



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

Bola dza tahe dzi kovhelwa khonani nña. Vhararu vhavho ndi vhatukana.



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



Maanda u do wana furakhisheni ifhio? Ann u do wana furakhisheni ifhio?

Ndi pfi Maanda



- Maanda na Ann vha do wana bola nngana?

Ndi pfi Ann.



- Maanda na Ann vha do wana bola nngana?



U kovhekana malegere.

Khonani dzi kovhekana malegere. Muñwe na muñwe wavho u wana $\frac{1}{2}$ (hafu) ya phakhethé.



- a. Vha tea u kovhekana phakhethé nngana kha:

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

- b. Ndi khonani nngana dzine dza nga kovhekana:

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



Zwirivha zwa mitshino.

Vhomme na vhomakhulu vha runga zwirivha zwa mitshino.

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

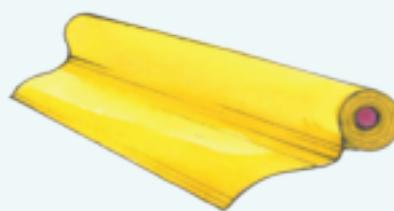
Labi $\frac{1}{2}$ dura R6 mithara muthihí.



- a. Ndi zwirivha zwingana zwine vha nga runga nga?

5 m _____ 10 m _____

20 m _____ 25 m _____



- b. Ndi labi $\frac{1}{2}$ lingafhani $\frac{1}{2}$ line vha $\frac{1}{2}$ $\frac{1}{2}$ kha u runga?

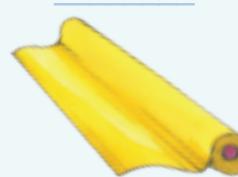
zwirivha zwa 2 _____ zwirivha zwa 3 _____ zwirivha zwa 4 _____

- c. Labi $\frac{1}{2}$ u runga zwi tevhelaho $\frac{1}{2}$ dura vhugai?

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

- d. Vha nga runga zwirivha zwingana nga:

R450 _____ R825 _____ R180 _____



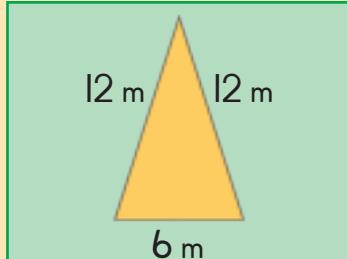
94

Dethi:

Themo ya 3

Muelo ri tshi mona

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



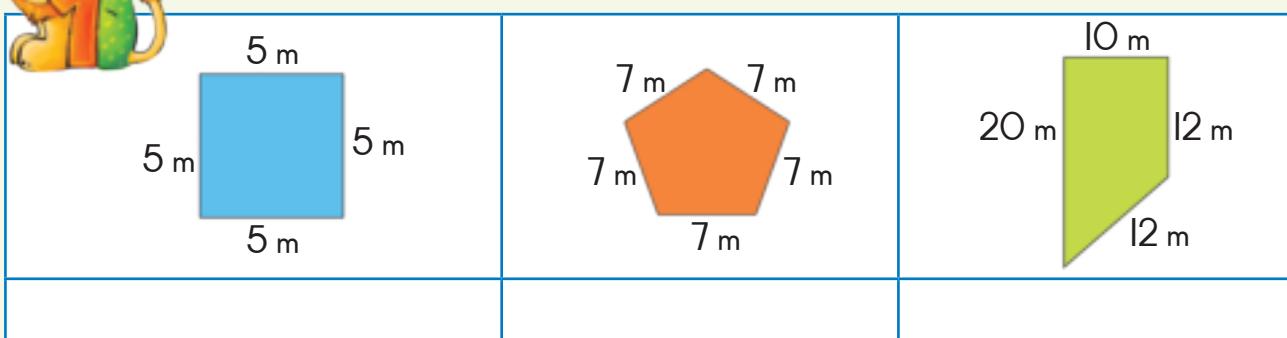
Rabulasi u na bulasi ya tshivhumbeo tsha thiraiengele.

Ri nga wana mudzinge wa puloto iyi nge ra tanganya vhulapfu ha matungo.

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



Wanani mudzinge.



Ngade ya Veronica.

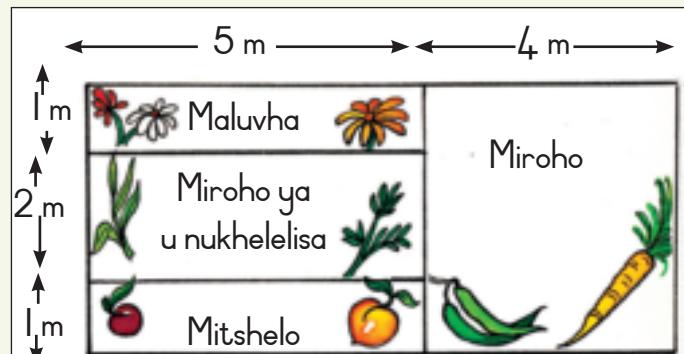
Veronica u ola mudzinge wa ngade ine a todou lima.

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

b. Ndi zwipiida zwifhio zwi re na midzinge i no fana? Mudzinge wazwo ndi ufhio?

_____ na _____ zwi na mudzinge wa _____ m.

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





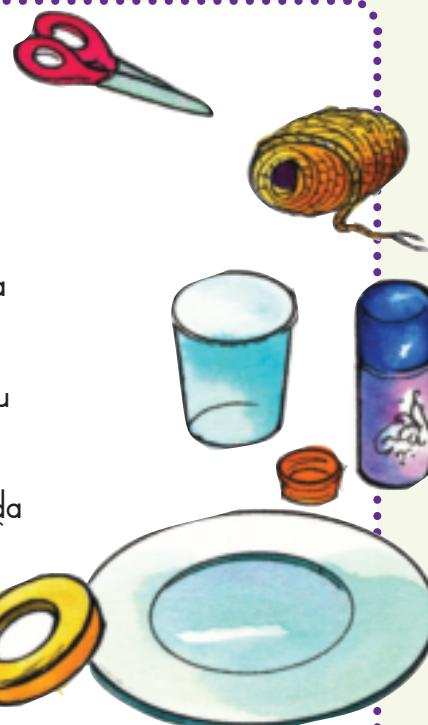
Pulanelani ngade yanu inwi muñe.

Shumisani bammbiri ḥa giridi ḥi re kha Tshigeriwa 7 kha u pulanelan ngade yanu inwi muñe. Sumbedzani mielo yothe khathihi na zwimela zwine na nga tama u zwi ṭavha.



U ela zvitendeledzi.

Shuman ni na phathinara yanu.



Materiał: Zwithu zwa fumi zwa zvitendeledzi 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 ṭharamudze lu tshi buda na tshitendeledzi. Vhalani uri lu pfukela seli lungana.
4. Itani zwi no fana na zwenezwi kha izwo zwiñwe zwithu zwa zvitendeledzi.
5. Nwalani zwe na vhona. Tshikhala tsha u mona na tshitendeledzi tshi vhidzwa u pfì ndi muelotenge.

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



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



95a

Dethi:

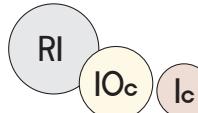
U renga tshelede

Themo ya 3

Tambani mitambo i tevhelaho ni na phathinara yanu.

Matheriala:

RIOO RIO



RIOO	RIO	RI	IOc	Ic

Bodo ya tshelede (Tshigeriwa 8),

Bammbiri na penisela, daisi mbili, tshelede ya u tambisa

(i wanala kha Tshigeriwa 9): Noutu dza RIOO na RIO; khoini dza RI, IOc na Ic.

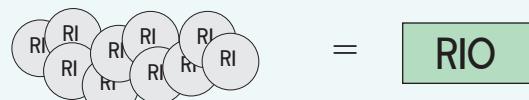
Vheani Bodo ya Tshelede nthha ha tafula.

Bodo i na zwikhala (khethhekanyo) 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.

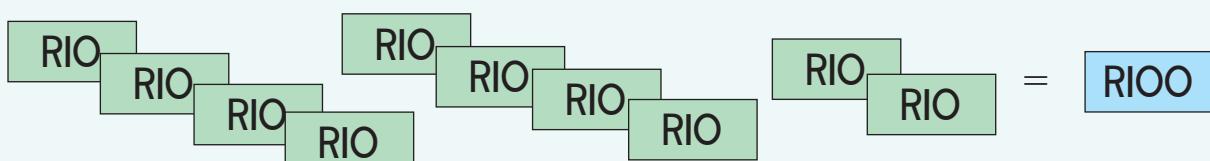


Tanganyani u swika kha Rannda dza 100.

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.



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



5. **Ndatiso:** Arali mutambi a fhedza raundu yawe a hangwa u rengisa khoini dzawe dza RI uri a wane noutu ya RIO, ngeno uña muñwe mutambi o kona u vhona vhukhakhi uhu, ndatiso ndi RI.

Arali mutambi a hangwa u rengisa noutu dza RIO uri a wane RIOO, u fanela u badela uña muñwe RIO.



Tusani u thoma kha RIOO u swika kha RO.

Tambani mutambo u no fana na u^{la}, fhedzi ni thome nga noutu dza RIO, ni t^{use} t^{hanganyelo} ya nomboro dzi re kha daisi. Mutambi a no wana RO ndi ene we a wina.

RIOO	RIO	RI	IOc	Ic



Mut^{anganyo} na mut^{uso} u swika kha RI OOO.

Tanganyani t^{hanganyelo} i re kha daisi kha raundu i^{nwe} na i^{nwe}, ni dzhie noutu dza RIO dza nomboro yeneyo. Muthu wa u thoma u swika kha RI OOO o wina. Kana, thomani nga RI OOO, ni t^{use} kha raundu i^{nwe} na i^{nwe}. Mutambi wa u thoma u swika kha RO o wina.



U t^{anganya} u swika kha RI.

Tambani mutambo u no fana na wa u thoma, fhedzi zwino ni kungulusa daisi na wana t^{hanganyelo}, dzhiani t^{hanganyelo} 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 t^{use} kha raundu i^{nwe} na i^{nwe}. Wa u thoma u wana O senthe o wina.



95b

Kha ri ye mavhengeleni!

Dethi:

Themo ya 3



Seili ya miñadzi.

Vhengeleni vha rengisa miñadzi ya 5 nga mitengo yo fhambananaho.



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

- Wanani velu ya miñadzi kha rou iñwe na iñwe.
- Vho Mme Madzanga vha renga muñadzi wa l wa lushaka luñwe na luñwe.

Vha badela vhugai yo t̄angana yot̄he? _____

- Buti u shumisa R450 yo t̄angana yot̄he. 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: Fulauru ya 40 g i no kukumuwa nga yo^{the}; Makumba a 3; swigiri aisini ya 50 g
Zwa u shela: Luvhomba lwa 140 ml

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

Khekhe	Fulauru	Makumba	Swigiri aisini	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 1 ya luvhomba i nga ḥodziwa kha: khekhe dza 10;
khekhe dza 7; khekhe dza 8.



Mbalotshihadu.

Tolani! Vhambedzani!
Lulamisani

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



11 12 13 14 15 16 17 18 19 20

qb

Dethi:

Zwinwe hafhu nga data

Themo ya 3



Tshititshini tsha mapholisa.

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

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

Nwalani madzina a vhane: Vha vha desikeni.

Vha khou patirola.

Vha vha khothe.



Duvha la miri.



Zwikolo zwitanu zwi kha mutatisano wa u vhona uri ndi vhafhio vhane vha do tavha miri minzhi

nga Duvha la Arbor.



= 10 miri

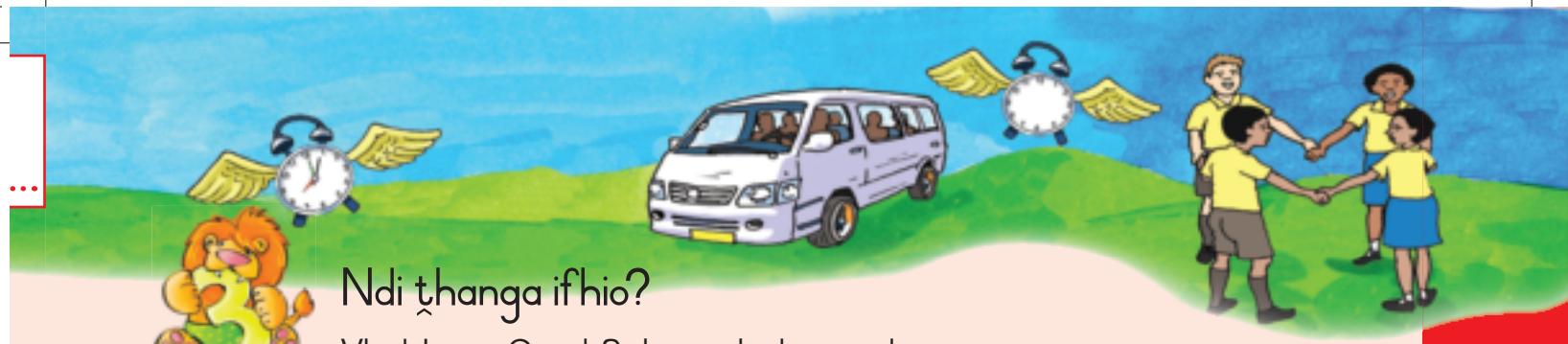
Klipspruit	
Mthonjeni	
Sonskyn	
Thuthong	
Mosiba	

Tshikolo tshiñwe na tshiñwe tshi tavha miri mingana?

Klipspruit	Mthonjeni	Sonskyn	Thuthong	Mosiba

Zwikolo zwi tavha miri mingana yo tangana yothé?

1 2 3 4 5 6 7 8 9 10



Ndi thanga ifhio?

Vha kilesi ya Gireidi 3 vha ita thodisiso muðanani.

Vha tama u wana tshaka dzo fhambananaho dza thanga dza nn̄du dzo fhambananaho.

Vha sumbedza mvelelo dzavho nga girafu ya buloko.



Vha ita thiki (✓) nthihi kha nn̄du iñwe na iñwe ine vha i vhona.



Zwileithi	✓	✓	✓	✓	✓	✓					
Hatsi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mabulannga	✓	✓	✓	✓	✓	✓	✓	✓			
Mazennge	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Ni vhona thanga nngana dza lushaka luñwe na luñwe?

Dzithaili _____ Hatsi _____ Mabulannga _____ Mazennge _____

Ndi lushaka lufhio lwa thanga lu no funeswa? _____

Vha kona u vhala thanga nngana dzo thangana dzo ñhe? _____



Saizi (mielo) ya miñadzi.

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 iñwe na iñwe.

2 _____ 3 _____ 4 _____

Ndi saizi ifhio yo andesaho? _____

Tolani! Vhambedzani!
Lulamisani



11 12 13 14 15 16 17 18 19 20

q7

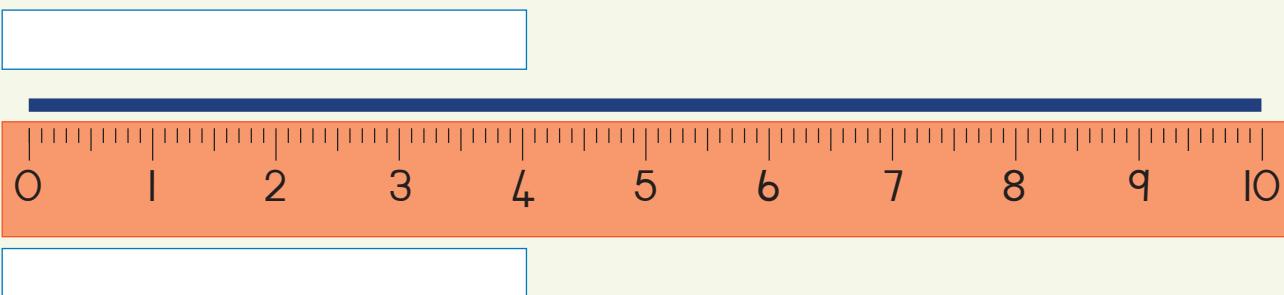
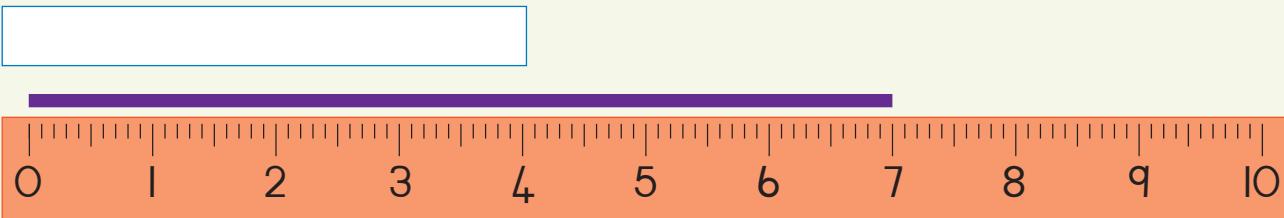
Dethi:

U shuma nga senthimitha

Themo ya 4



Mutaladzi wo khalariwaho wo lapfa lungafhani?



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

Mitaladzi	U anganyela	Muelo	Phambano vhukati ha muanganyelo na muelo



3

Shumisani rula kha u ola mitaladzi i tevhelaho.

a. 10 cm

b. 7 cm

c. 15 cm



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

- a. Vhulapfu ha bugu. _____
- b. Vhuntha ha munango. _____
- c. Vhulapfu ha penisela _____
- d. Vhulapfu hanu. _____
- e. Vhulapfu ha munwe wanu _____

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



Kha nwaha no shumisa penisela dza u khalara dzanu thanu.

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 tada 11 cm, ya phephulu 12 cm, ya tshitopana 9 cm, ya burauu 14 cm, ntswu 8 cm, ya pinki 13 cm ngeno tshena i 15 cm.



- a. Ndi penisela ifhio ye na i shumisesa? _____
- b. Ndi penisela ifhio ye na si i shumisese? _____
- c. Nwalani vhulapfu ha penisela dzanu u thoma kha pfufhisa u swika kha ndapfusa _____



11 12 13 14 15 16 17 18 19 20

q8

Dethi:

Nomboro 700 u swika kha 800

Themo ya 4



Vhalani ni nwale.

a. Vhalani u bva kha 700 u swika kha 800.

Bulani nomboro musi ni tshi khou ralo u vhala.

700



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

b. Nwalani nomboro dzi no khou t̄ahela kha giridi i re afho nt̄ha.

c. Nwalani nomboro dza 10 dzi no tevhela 750.

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

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

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

e. Nwalani nomboro dzot̄he dzi re kha phetheni ya dzi2 u bva kha 751 u swika kha 773.

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

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

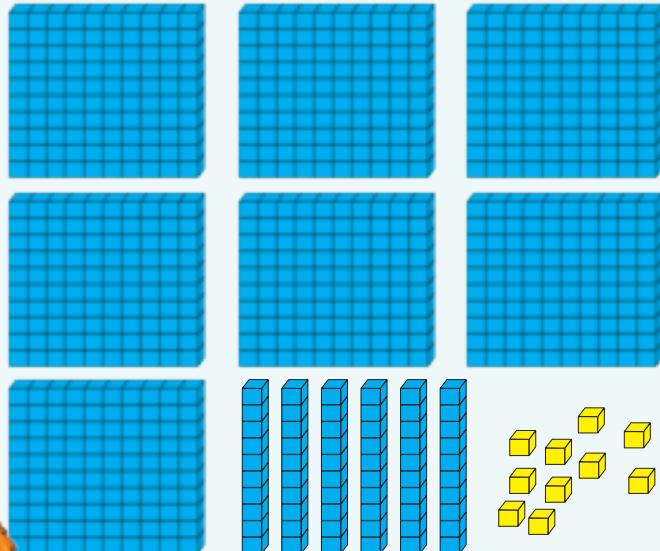
751; 756; 761; _____ ; _____ ; _____ ; _____ ; _____ ; _____



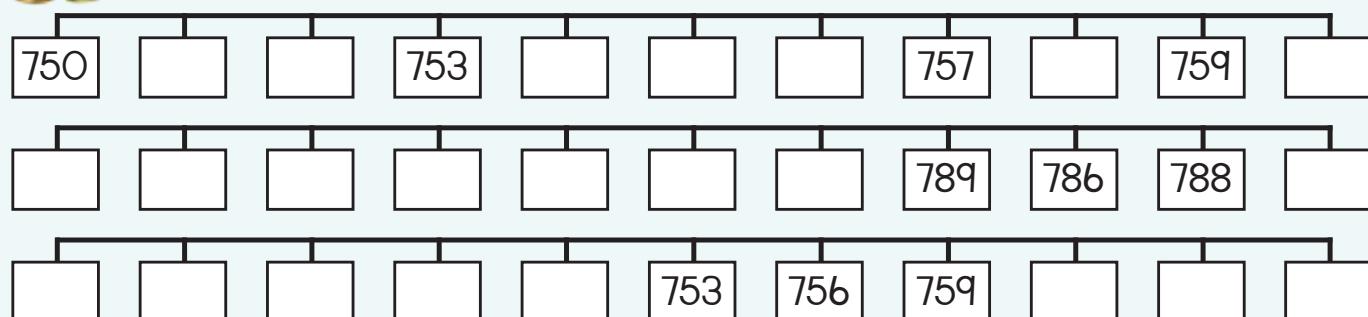
Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.



Fhedzisani
thebulu.

Nwalani u bva kha t̄hukhusa u
ya kha khulwanesa

Nwalani u bva kha khulwanesa
u ya kha t̄hukhusa

776, 772, 779, 770, 778

736, 703, 730, 713, 703



Teacher: Sign:
Date:



Nwalani zwi tevhelaho nga maipfi.

788

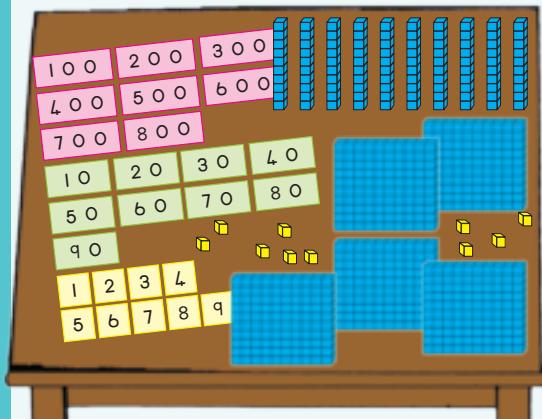
11 12 13 14 15 16 17 18 19 20

qq

Nomboro džinwe haf hu 700 u swika kha 800

Dethi:

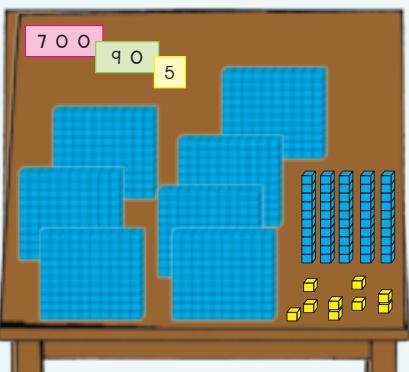
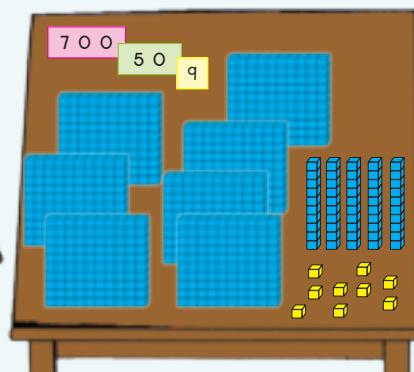
Themo ya 4



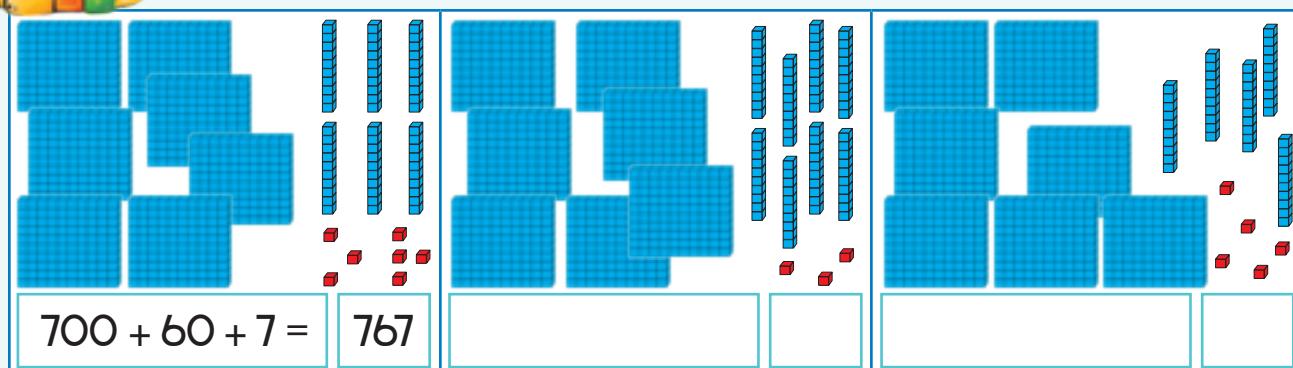
Peter o vha e na magarata a
vhuimo ha nomboro na zwibuloko
zwa beisi ya fumi zwi tevhelaho.

Mudededzi vho humbela Peter uri
a sumbedze 759 nga magarata
awe na zwibuloko.

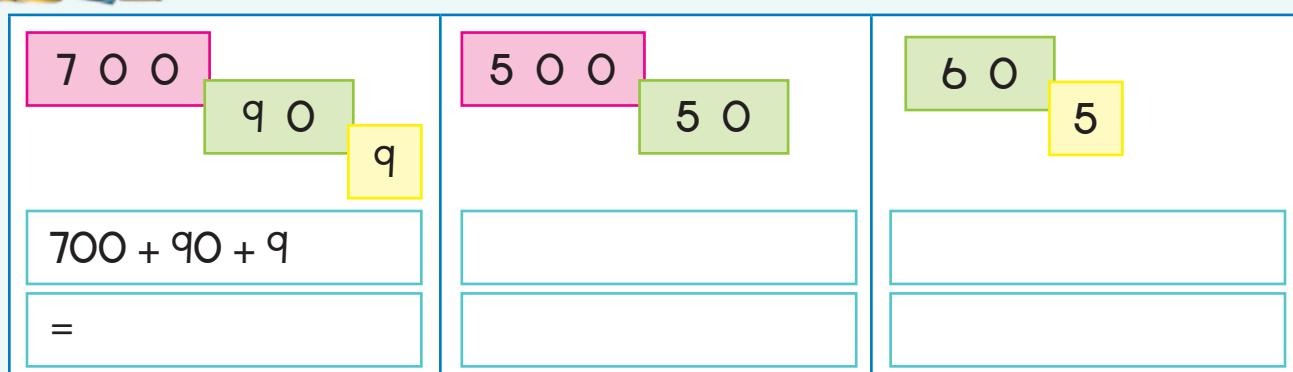
Hezwi ndi zwe Ben a sumbedza
zwone. O khakha ngafhi?



Nwalani fhungo la nomboro ni tevhedze nga phindulo.



Nwalani fhungo la nomboro ni tevhedze nga phindulo.





Fhedzisani mutualombalo.

789	790	791	<input type="text"/>	799						
-----	-----	-----	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	-----

Mpheni nomboro dzoṭhe dzi re ṭhukhu kha 795.

Mpheni nomboro dzoṭhe dzi re khulwane kha 795.



Dzhenisani < kana > =

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

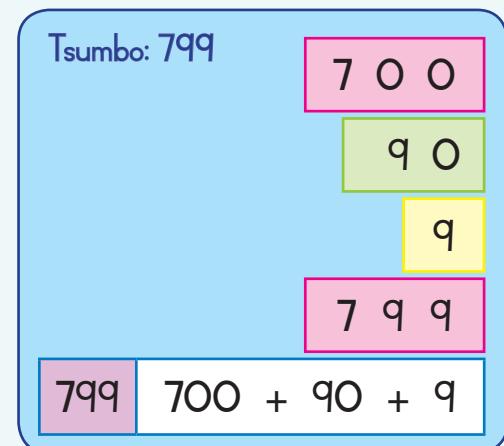


Padulani nomboro yanu.

a. Fhaṭani nomboro iñwe na iñwe nga magaratā anu.

b. Nwalani vēlu (ndeme) ya didzhiti iñwe na iñwe. Zwino itani hezwi: Padulani nomboro yanu.

790	
689	
699	
755	
690	



Nwalani madzina a nomboro.

668	
757	
799	
742	
691	



100

Nomboro 800 u swika kha 900

Dethi:

Themo ya 4



Vhalani ni nwale!

a. Vhalani u bva kha 800 u swika kha 900.

Bulani nomboro musi ni tshi khou ralo u vhala.

800



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

b. Nwalani nomboro dzi no khou t̄ahela kha giridi i re afho nt̄ha.

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 dzothé dzi re kha phetheni ya dzi2 u bva kha 807 u swika kha 829.

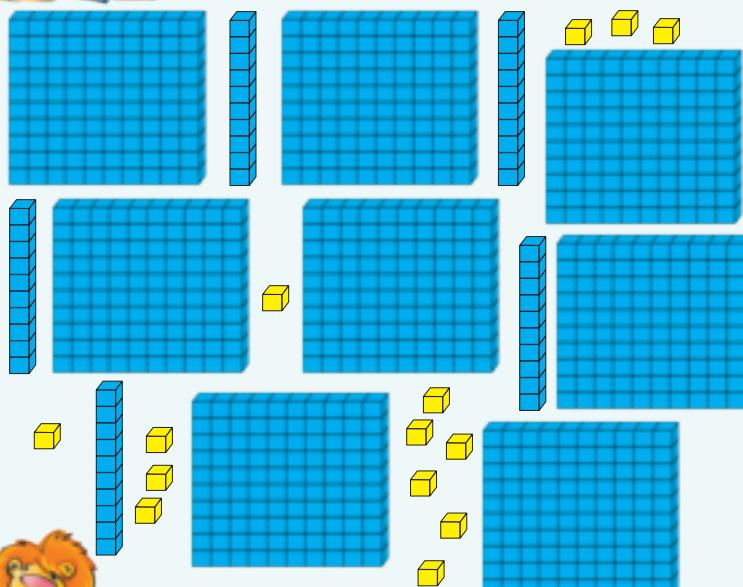
807; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; 829

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

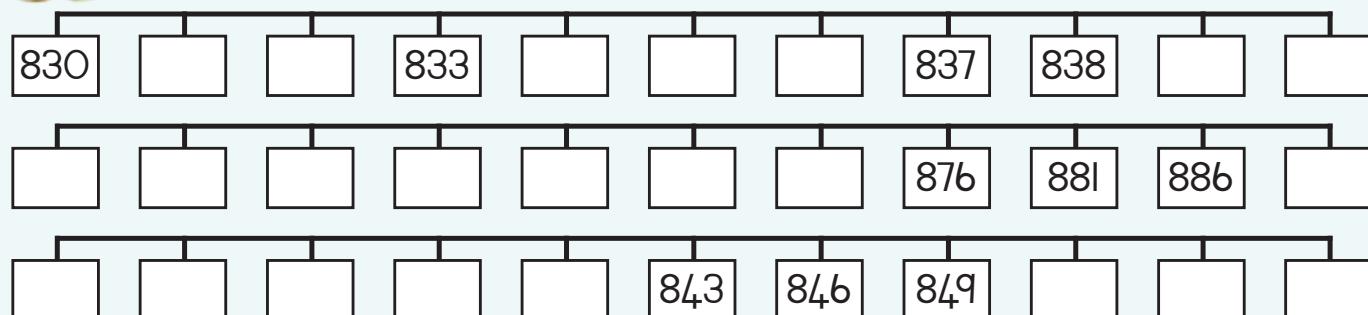
834; 839; 844; _____ ; _____ ; _____ ; _____ ; _____ ; _____



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani thebulu.

Ńwalani u bva kha ḥukhusa u
ya kha khulwanesa

ńwalani u bva kha khulwanesa
u ya kha ḥukhusa

856, 853, 855, 851, 857

898, 801, 810, 819, 891



Teacher:
Sign:
Date:



Ńwalani zwi tevhelaho nga maipfi.

845

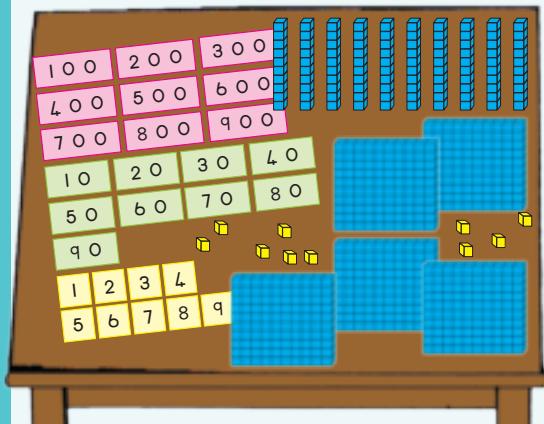
11 12 13 14 15 16 17 18 19 20

101

Nomboro dzinwe haf hu 800 u swika kha 900

Dethi:

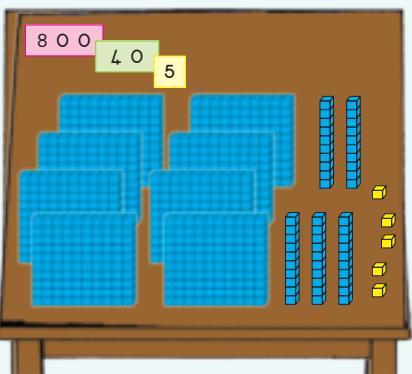
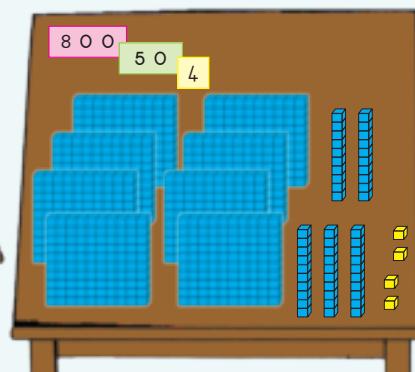
Themo ya 4



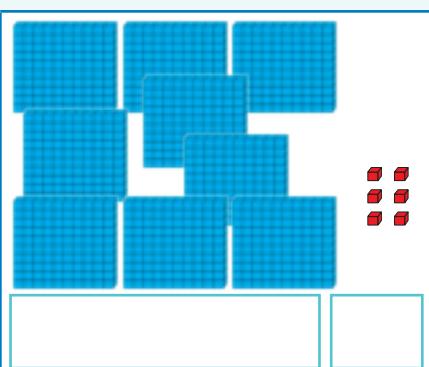
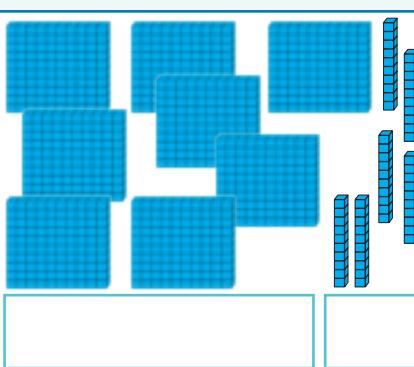
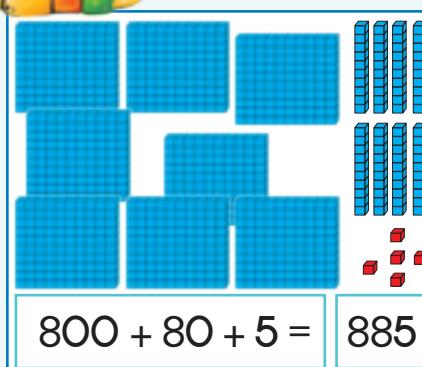
Peter o vha e na magaraṭa a
vhuimo ha nomboro na zwibuloko
zwa beisi ya fumi zwi tevhelaho..

Mudededzi vho humbela Peter ura a
sumbedze 854 nga magaraṭa awe
na zwibuloko.

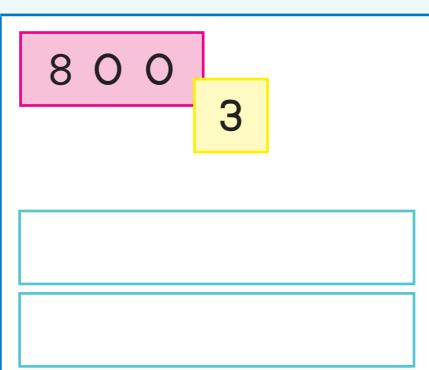
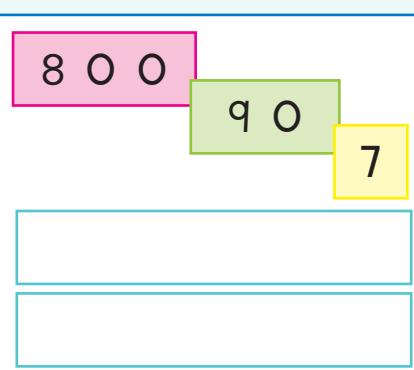
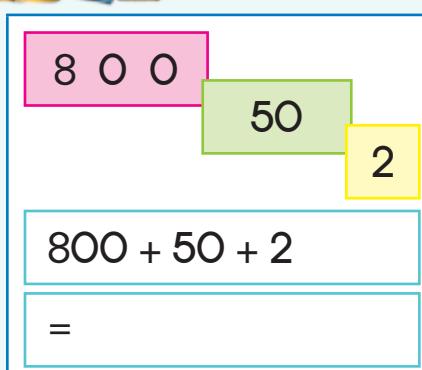
Hezwi ndi zwe Ben a sumbedza
zwone. O khakha ngafhi?

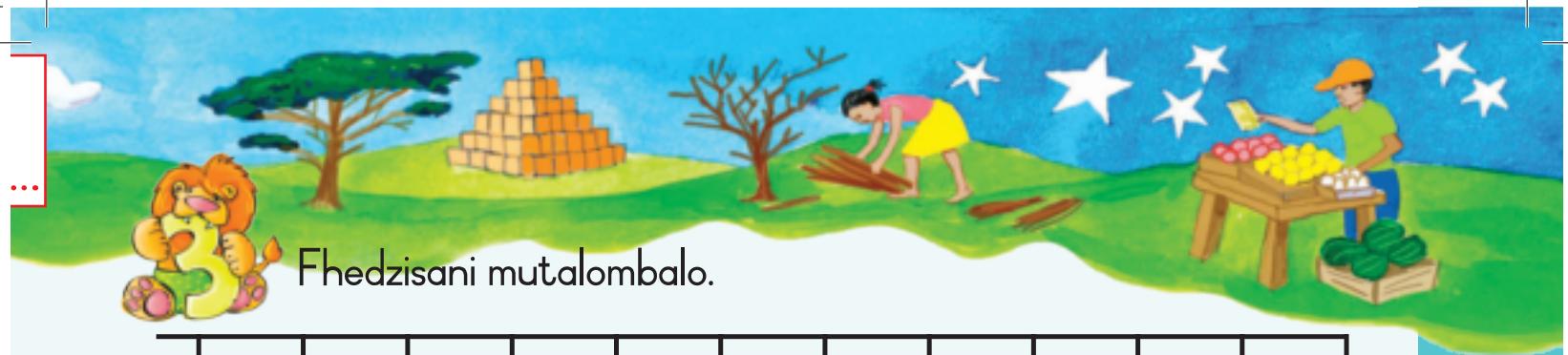


Nwalani fhungombalo ni tevhedze nga phindulo.



Nwalani fhungombalo ni tevhedze nga phindulo.





Fhedzisani mutualombalo.

889	890	891	<input type="text"/>	900						
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Mpheni nomboro dzot̄he dzi re t̄hukhu kha 894.

Mpheni nomboro dzot̄he dzi re khulwane kha 894.



Dzhenisani < kana > =



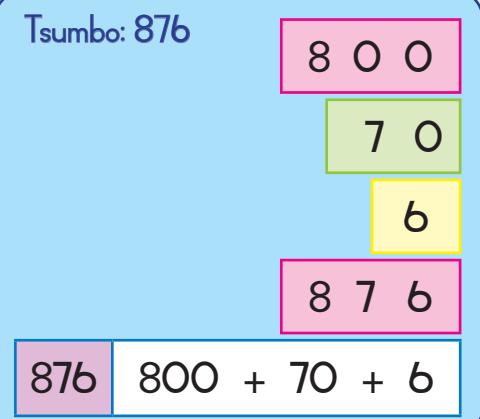
Padulani nomboro yanu.

a. Fhat̄ani nomboro iñwe na iñwe nga magarata anu.

b. Nwalani velu (ndeme) ya didzhit iñwe na iñwe. Zwino itani hezwi: Padulani nomboro yanu.

890	
889	
802	
855	
840	

Tsumbo: 876



Nwalani madzina a nomboro.

889	
825	
803	
830	
899	



11 12 13 14 15 16 17 18 19 20

102a

Ukala zwithu

Dethi:

Themo ya 4



Lavhelesani zwifanyiso zwi tevhelaho ni fhindule mbudziso.



- Vhukhopfu ha u kuvha ha 1 kg hu leluwa kana hu lemela u fhira ha 2 kg?
- Hu leluwesa tshifhio: Sirili ya mukapu ya 500 g kana mabesikitsi a 200 g?
- Hu lemelesa tshifhio: Khirimu ya lukanda ya 100 g kana phakhethe ya 1 kg ya tshidammba?



Ro $\ddot{\text{x}}$ he ro $\ddot{\text{t}}$ angana ri lemela vhugai?

N $\ddot{\text{e}}$ ndi lemela 25 kg, khonani yanga 29 kg ngeno mukomana wanga a tshi lemela 45 kg.



Zwibveledzwa izwi zwot $\ddot{\text{h}}$ e zwi lemela vhugai?

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



Lavhelesani zwifanyiso zwi tevhelaho
ni fhindule mbudziso.



2,5 kg i lingana na
2 kg na 500 g.

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



Fhedzisani thebulu.

Mudededzi wañu vha ðo ni fha zwithu zwit̄anu 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 zwot̄he?

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.



102b

Kha ri kale hafhu

Dethi:

Themo ya 4

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

Ndeme ndi mpimo wa maanda a giravithi a no khou kokodzela fhasi metha. Giravithi a si nnzhi n̄wedzini lune zwithu zwa lemela zwičuku.

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

Zwikalo zwo fhambananaho

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

Ri ela tshileme nga tshikalo tshilinganyisi (tsha balantsi) na ndeme nga tshikalo tsha tshipiriingga.

Litha ya madi i na tshileme tsha 1 kg.

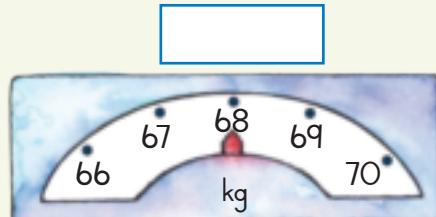
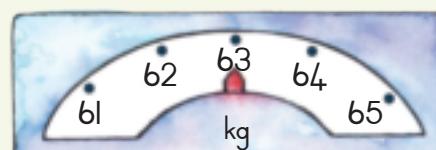
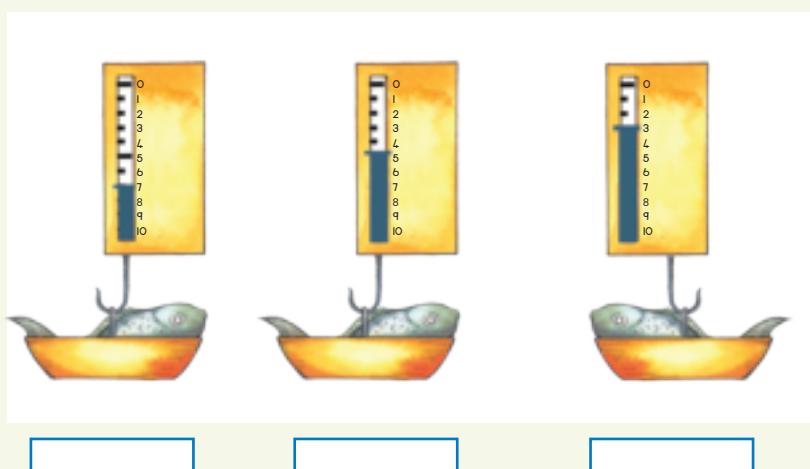


Khovhe i na tshileme tsha 3 kg.



Wanani zwileme zwavho.

Nwalani tshileme nga kg dze dza sumbedzwa kha tshiñwe na tshiñwe tsha zwikalozwi izwi zwa tshipirinngi.

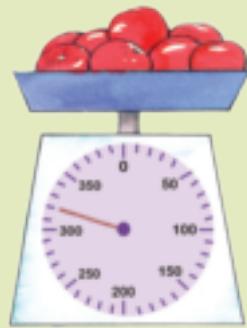




Ri shumisa dzigireme kha u kala ndeme ya zwithu zwi re zwi^luku kana zwi no leluwa khathihi na u ela furakhisheni dza khilogremem.

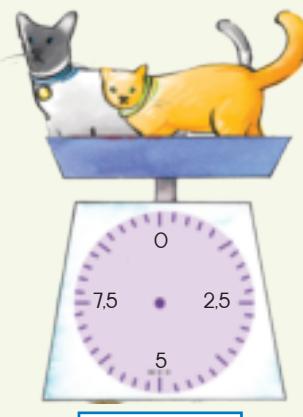
$$1000 \text{ g} = 1 \text{ kg}$$

Kha tshikalo itsi tsha tshipirinngi, mutalo muⁿwe na muⁿwe mu^luku ndi gireme dza 10. Matamatisi a lemela gireme dza 320.

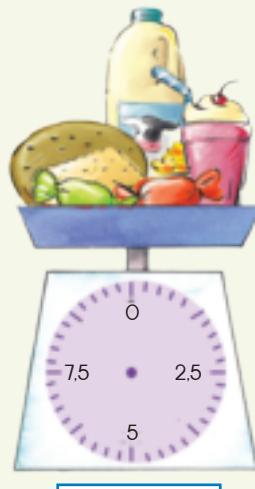


Zwilemela vhugai?

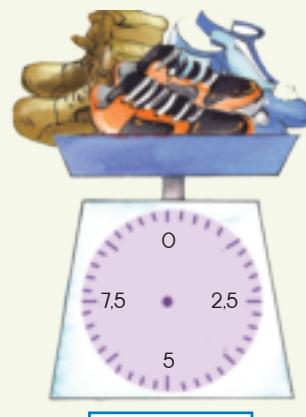
Olani hune musevhe wa tshikalo wa tea u sumba tshifhinga tshot^he.



7 kg



4 kg



6 kg



Itani khilogireme.

Tanganyani ni ite 1 kg (1 000 g).

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



Teacher:
Sign:
Date:

103

Dethi:

Nomboro 900 u swika kha 1 000

Themo ya 4



Vhalani ni nwale.

a. Vhalani u bva kha 900 u swika kha 1000.

Bulani nomboro musi ni tshi khou ralo u vhala.

900



901		903						910
							919	
981								
991							999	

b. Nwalani nomboro dzi no khou t̄ahela kha giridi i re af'ho nt̄ha.

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

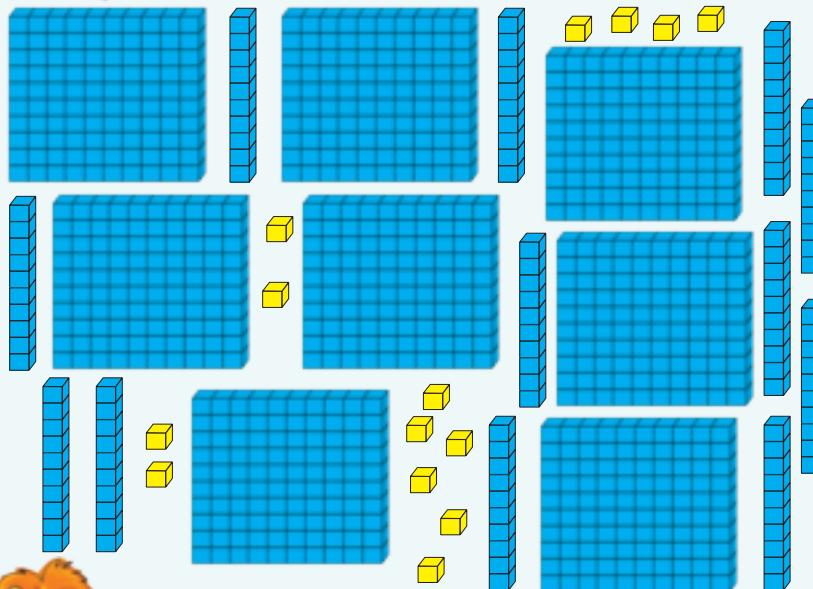
e. Nwalani nomboro dzothé dzi re kha phetheni ya dzi2 u bva kha 945 u swika kha 967.

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

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

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

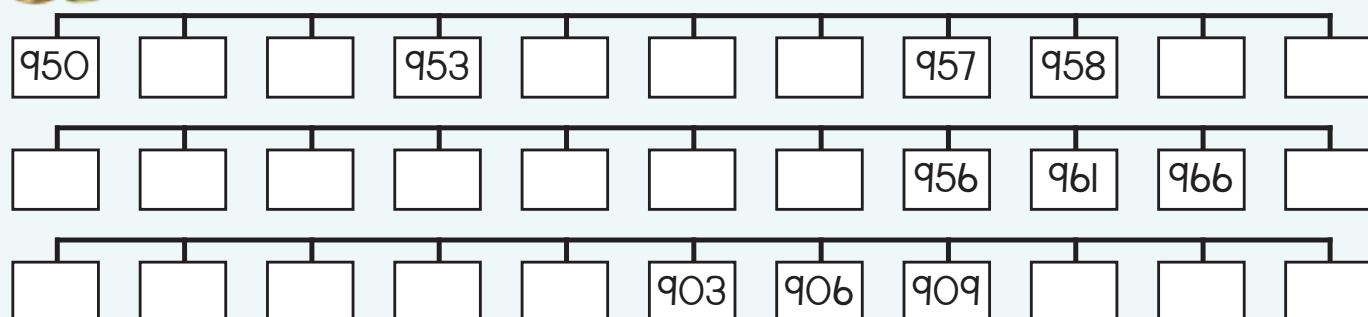
Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.



Fhedzisani
thebulu.

Ńwalani u bva kha ṭhukhusa u
swika kha khulwanesa

Ńwalani u bva kha khulwanesa
u ya kha ṭhukhusa

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



Teacher:
Sign:
Date:



Ńwalani zwi tevhelaho nga maipfi.

695

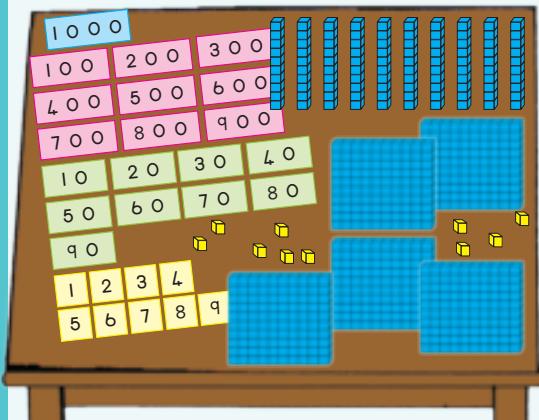
11 12 13 14 15 16 17 18 19 20

104

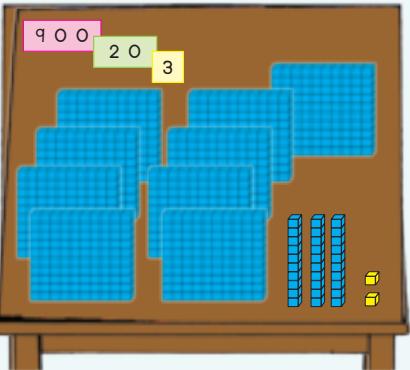
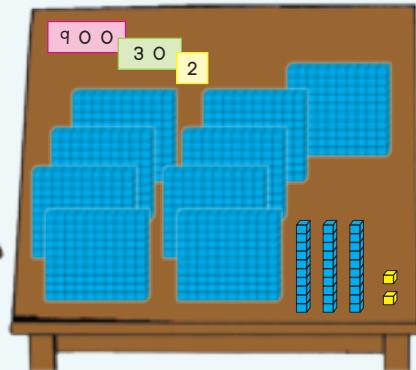
Nomboro džinwe

hafhu 900 u swika kha | 1000

Themo ya 4



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

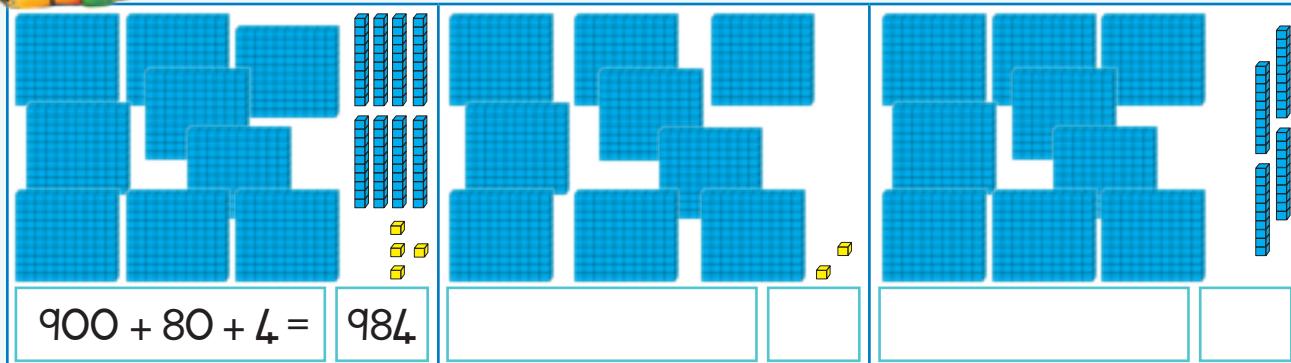


Mudededzi vho humbelala Mulalo
uri a sumbedze 932 nga
magaraṭa awe na zwibuloko.

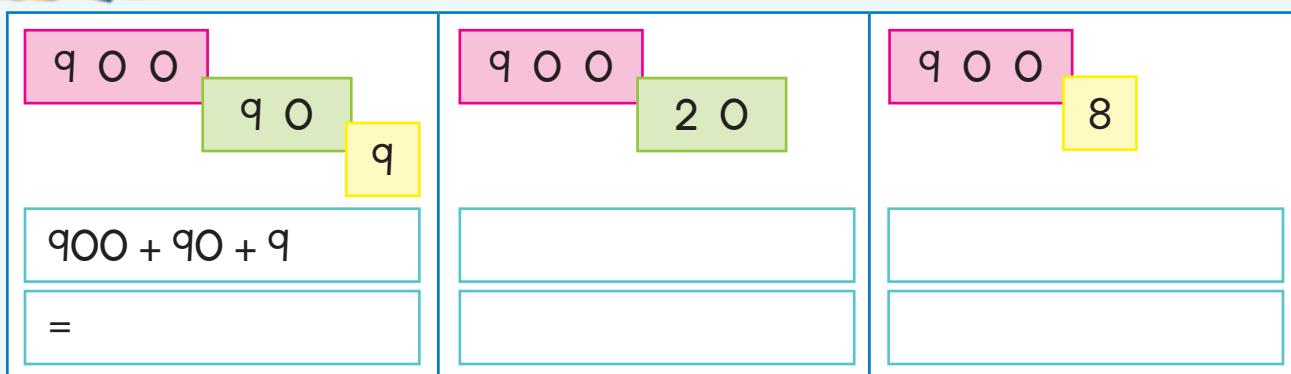
Hezwi ndi zwe Gugu a sumbedza
zwone. O khakha ngafhi?



Ńwalani fhungo la nomboro ni tevhedze nga phindulo.



Ńwalani fhungombalo ni tevhedze nga phindulo.





Fhedzisani mutualombalo.

989	990	991	<input type="text"/>	999						
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Mpheni nomboro dzothe dzi re t^hukhu kha 995. _____

Mpheni nomboro dzothe dzi re khulwane kha 995. _____



Dzhenisani < kana > =

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

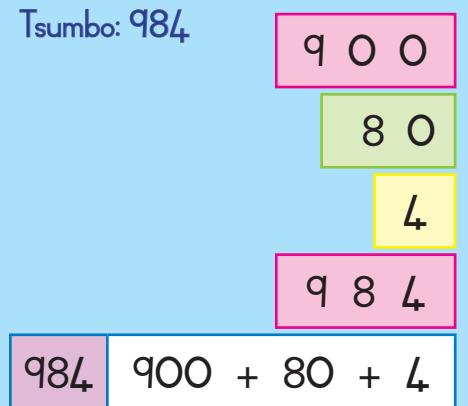


Padulani nomboro yanu.

- a. Fha^tani nomboro iⁿwe na iⁿwe nga magarat^a anu.
b. Nwalani v^{el}u (ndeme) ya didzhiti iⁿwe na iⁿwe. Zwino itani hezwi: Padulani nomboro yanu.

922	
959	
980	
907	
931	

Tsumbo: 984



Nwalani madzina a nomboro.

976	
905	
950	
821	
909	



11 12 13 14 15 16 17 18 19 20

105

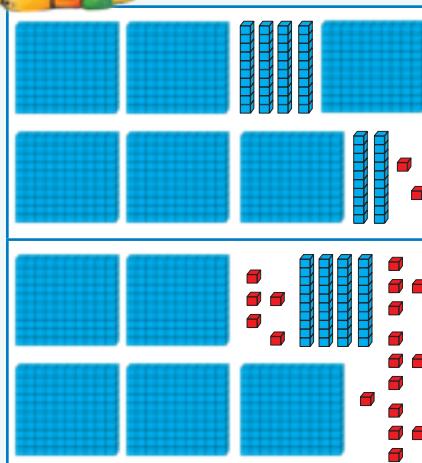
Mutanganyo na mutuso u swika kha 999

Dethi:

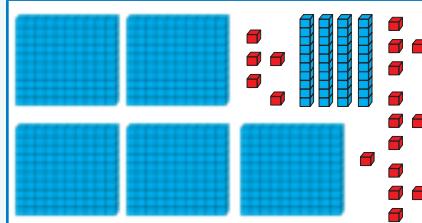
Themo ya 4



Nwalani fhungombalo la iñwe na iñwe.



Talutshedzani uri no vhalisani hani zwibuloko.



Talutshedzani uri no vhalisani hani zwibuloko.



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

a. U inga kavhili 340

$$= 340 + 340$$

$$= \text{U inga kavhili } 340$$

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

$$= 600 + 80$$

$$= 680$$

b. $340 + 341$

$$= \text{U inga kavhili } 340 + 1$$

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

$$= 600 + 80 + 1$$

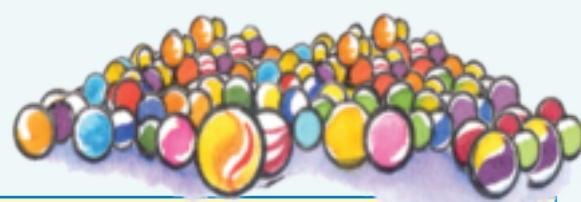
$$= 681$$

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: <i>[Signature]</i>
Date: <i>[Date]</i>



Duvha la u baka.

Makhadzi Vho Masindi vha baka vhurotho ovenini.

Sumbedzani zwifhinga kha watshi idzi.

Vha dzenisa vhurotho nga **themo ya u bva kha awara ya 4.**

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

Vhurotho vhu dzhia tshifhinga tshingafhani uri vhu vhibve? _____

Mme a Ann vha shumisa oveni ya maikhioweivi. I a ḥavhanya nga maanda.

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

Vhurotho vhu do vhibva nga tshifhingade? _____

Oveni ya mikhioweivi i ḥavhanya lungafhani u fhira ila inwe? _____ Nga minete ya.



Mishumo ya nga matsheloni.



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

	Uthoma	Ufhedza	Tshifhinga tshingafhani?
Ubika vhuragane	6:15	6:40	
U ḥanzwa 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 mad̄i a litha dza 30 nga minete wa !!

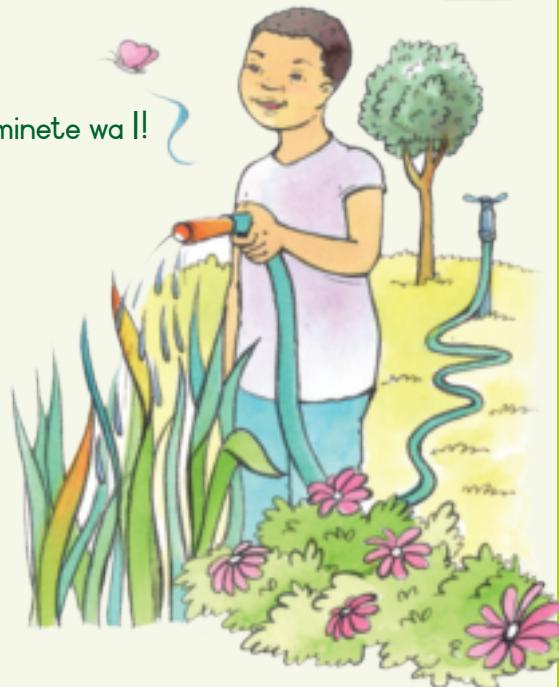
Hosiphaiphi i nga kona u shumisa mad̄i a litha nngana nga:

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 nama ya khere.

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

Vha a nwala uri vho shumisa oili nngafhani duvha linwe na linwe.

Mus	Lavhuv	Lavhur	Lavhun	Lavhut	Mug	Sun
98 ml	122 ml	108 ml	117 ml	109 ml	135 ml	?
98 ml	122 ml	108 ml	117 ml	109 ml	135 ml	?

a. Vha shumisa ml nngana dza mapfura u bva nga Musumbuluwo u swika nga Mugivhela _____ ml.

b. Vha shumisa ml nngana dza mapfura nga Swondaha _____ ml.

c. Bodelo lithihi la 750ml la mapfura li dura R18,50

Mabodelo a 4 a dura vhugai? _____.



107

Dethi:

Ushuma nga tshelede

Themo ya 4



Vhalani khoini na dzinoutu.

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

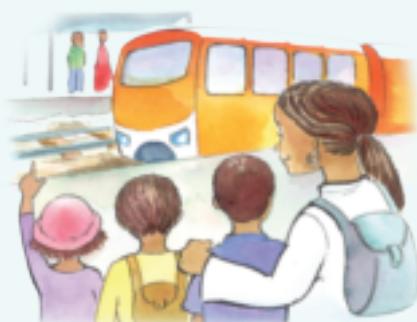


Lwendo nga tshidimela.

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 bammbiri).

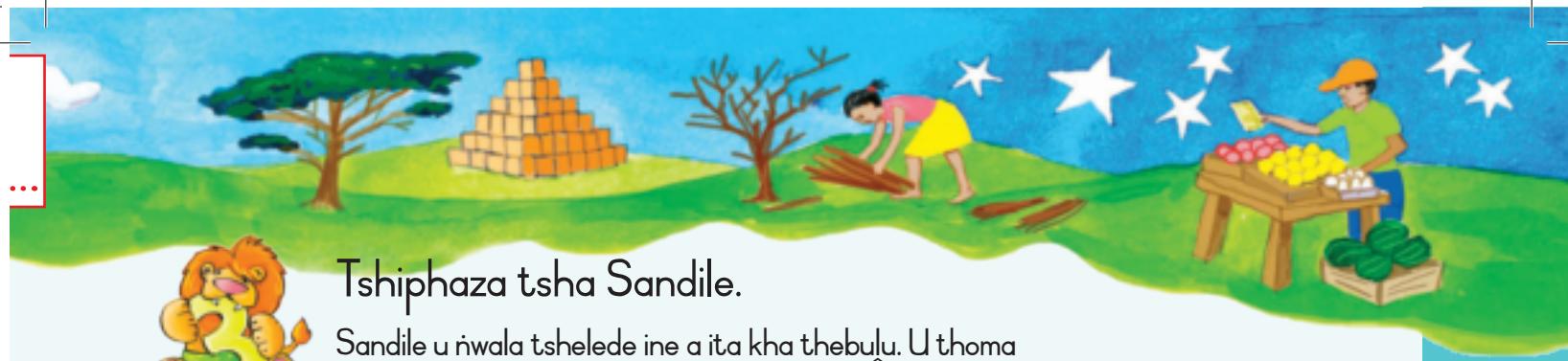


Vha wana tshintshi ya R30.

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

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

Tolani!
Vhambedzani!
Lulamisani



Tshiphaza tsha Sandile.

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

Mbuelo ndi tshelede ine ra i hola kana ra i tanganedza. Thusani Sandile uri a fhedzise murekanyo wawe. Nwalani phindulo dzanu kha thebulu:

		Anganyelani	Thanganyelo
Musumbuluwo	R50 + R75 + R200 + R350 + R25		
Lavhuvhili	R25 + RI75 + R50 + R320 + R90		
Lavhuraru	R50 + R75 + R200 + R350 + R25		
Lavhuna	RI20 + R55 + RI80 + R245 + R25		
Lavhutatu	R60 + RI50 + RI40 + R200 + RI25		
Mugivhela	R50 + R75 + R200 + R350 + R25		
Swondaha			



Wanani uri tshintshi ndi vhugai.

U itela u wana tshintshi, ni nga tanganya u thoma kha uri zwithu zwi dura vhugai, ha tevhela uri ndi vhugai ine na do badela yone.

Tsumbo:	+ 50c	+ R2	+ R10	+ R100
Mađuvha u renga zwiliwa zwa R87,50 U badela nga noutu ya R200. Tshintshi yawé ndi vhugai?	R87,50	R88	R90	R100
Shumisani mitalombalo uri i ni thuse u wana tshintshi.				
Mutengo: R229,40 Ni badela nga: 				
Mutengo: R305,60 Ni badela nga: 				



108

Mutanganyo na mutuso u swika kha 999 haf hu

Dethi:

Themo ya 4



Kha ri tandulule thaidzo.

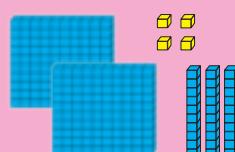
Gugu o kuvhanganya zwičikara zwa 234.

Mandla a mu fha zwičikara zwa 501 nga nt̄ha.

Una zwičikara zwingana zwino?



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



Mbudziso ndi ifhio?

Hu na zwičikara zwingana zwino?

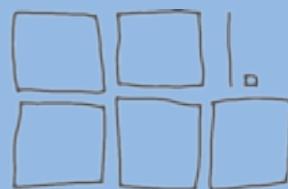
Ipfī li re khii ndi lifhio? zwinzhi

Nomboro ndi ifhio? 234 na 501

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



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



Kuvhetshole kwa Lisa kwa zwibuloko 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 matsheloni.

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

Mbudziso ndi ifhio?

Nomboro ndi dzifhio?	Ipfì li re khii ndi lifhio? Itani thiki kha phindulo yone. Ipfì li re khii li ri vhudza uri ri: <input type="button" value="Tanganye"/> <input type="button" value="Tuse"/> <input type="button" value=""/>
Itani nyolo.	Shumisani ndila yanu kha u tandulula thaidzo.

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

Mbudziso ndi ifhio?

Nomboro ndi dzifhio?	Ipfì li re khii ndi lifhio? Itani thiki kha phindulo yone. Ipfì li re khii li ri vhudza uri ri: <input type="button" value="Tanganye"/> <input type="button" value="Tuse"/> <input type="button" value=""/>
Itani nyolo.	Shumisani ndila yanu kha u tandulula thaidzo.



Teacher: _____
Sign: _____
Date: _____

109

Mut^langanyo na mut^luso u swika kha 999 hafhu

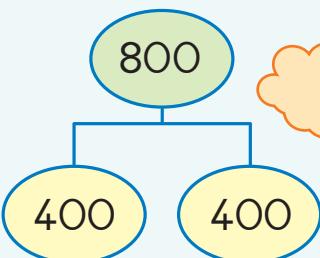
Dethi:

Themo ya 4

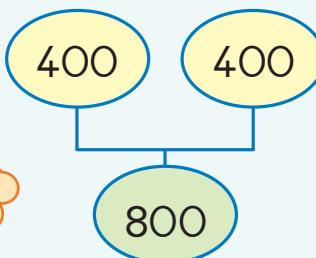
Lavhelesani nyolo ni i ḥalutshedze.



Fhedzisani zwi tevhelaho:



Nyingakavhili



- | |
|-------------------------|
| a. $223 + 223 =$ _____. |
| b. $160 + 160 =$ _____. |
| c. $115 + 115 =$ _____. |
| d. $315 + 315 =$ _____. |

- | |
|---------------------------|
| e. $117 + 117 =$ _____. |
| f. $450 + 450 =$ _____. |
| g. $112 +$ _____ $= 224.$ |
| h. $116 +$ _____ $= 232.$ |

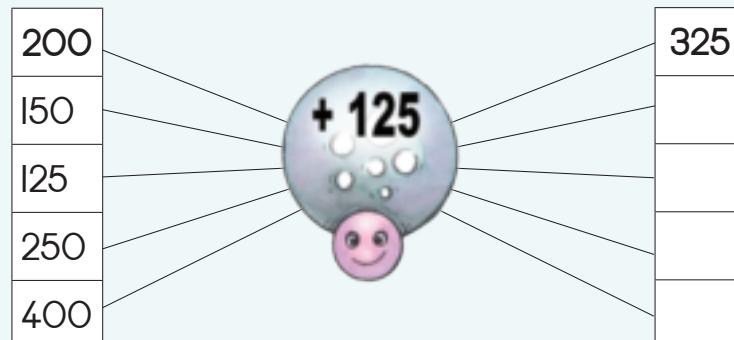


Nwalani nomboro.

- | | |
|--|-------------------------------|
| a. 12 nga nt ^l ha ha 523 ndi _____. | e. 537 ho ḥuswa 29 ndi _____. |
| b. 15 nga nt ^l ha ha 540 ndi _____. | f. Hafu ya 300 ndi _____. |
| c. 20 nga nt ^l ha ha 576 ndi _____. | g. Davhulu ya 420 ndi _____. |
| d. 60 nga nt ^l ha ha 590 ndi _____. | h. Hafu ya 600 ndi _____. |



T^langanyani 125





Ndi mini zwi no vhumba 1000?

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

Wanani miča ya nomboro dza + na –

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



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

Tolani!
Vhambedzani!
Lulamisani!

Tanganyani na utusa mahumi na madana.



a. Mahumi na madana

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

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:

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



11 12 13 14 15 16 17 18 19 20

110

Dethi:

Phazili (khanganyisa) dza mielo

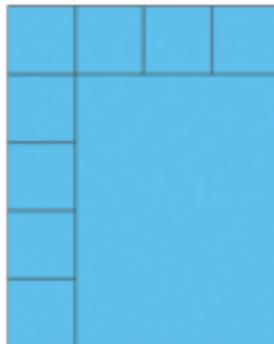
Themo ya 4



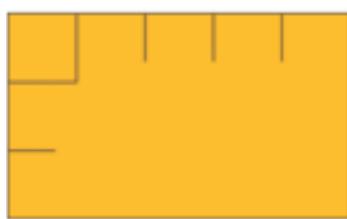
Wanani nyalo.

Ri nga shumisa zwikwea █ zwingana zwa saizi iyi kha u vala tshoṭhe iñwe na iñwe ya nyolo idzi? Shumisani ndila yanu ya u wana phindulo. Ni nga kha di ola zwikwea kha zwifanyiso uri zwi ni thuse u wana phindulo.

a.



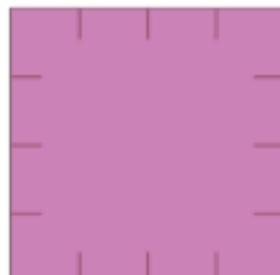
b.



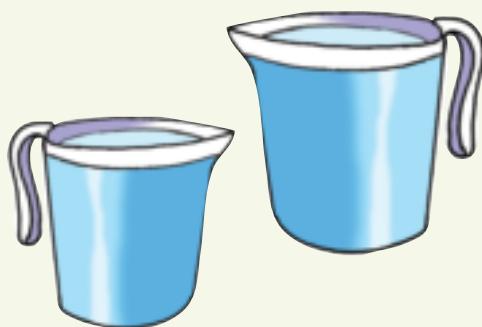
c.



d.



Thasululani thai.



Ni khou ṭoda u pima litha dza 4 kokotolo.

Ni na zwifaredzi zwivhili f'chedzi: tshithihi dzi dala nga litha dza 3 ngeno tshiñwe tshi tshi dala nga litha dza 5. Ni do tou zwi itisa hani?

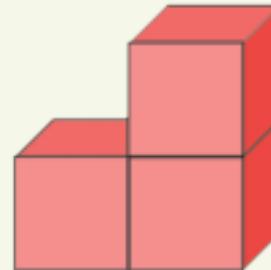
Lusevhedzi: hu na ndila dzi no swika mbili.



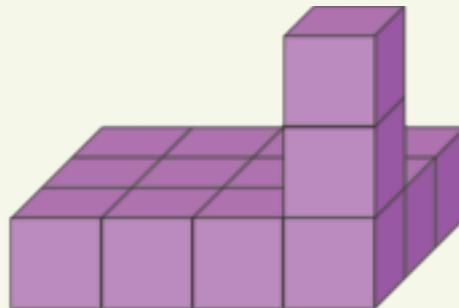
Ni kona u vhona mini?

Zwibulozo 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
nnada?



Vhalani khiubu



Ndi khiubu nngana dzi dze dza vhumba
tshivhumbeo itshi?



Khaedu: thai ya tshifhinga

Ni na watshi mbili dza mut̄avha.

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

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





Dethi:

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 _____.

Nwalani phetheni: _____

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

Nwalani phetheni: _____



Rekanyani.

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



Hu na zvitanda zwingana?



Hu na zvitanda zwa fumi kha nanda nthihi.



- | | | |
|----|--|----------------------|
| 1 | | = zvitanda zwa _____ |
| 2 | | = zvitanda zwa _____ |
| 3 | | = zvitanda zwa _____ |
| 4 | | = zvitanda zwa _____ |
| 5 | | = zvitanda zwa _____ |
| 6 | | = zvitanda zwa _____ |
| 7 | | = zvitanda zwa _____ |
| 8 | | = zvitanda zwa _____ |
| 9 | | = zvitanda zwa _____ |
| 10 | | = zvitanda zwa _____ |

- | | | |
|-----|--|----------------------|
| 10 | | = zvitanda zwa _____ |
| 20 | | = zvitanda zwa _____ |
| 30 | | = zvitanda zwa _____ |
| 40 | | = zvitanda zwa _____ |
| 50 | | = zvitanda zwa _____ |
| 60 | | = zvitanda zwa _____ |
| 70 | | = zvitanda zwa _____ |
| 80 | | = zvitanda zwa _____ |
| 90 | | = zvitanda zwa _____ |
| 100 | | = zvitanda zwa _____ |



Rou ya zvitanda.



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

Rou ya 1 ya nanda dza 100 = zvitanda zwa 100

$$10 \times 10 = 100$$

Rou dza 2 dza nanda dza 10 = zvitanda zwa _____

$$20 \times 10 = _____$$

Rou dza 4 dza nanda dza 10 = zvitanda zwa _____

$$40 \times 10 = _____$$

Rou dza 10 dza nanda dza 10 = zvitanda zwa _____

$$100 \times 10 = _____$$



Hu na nanda nngana?

zvitanda zwa 700 zwi ita nanda dza _____.

zvitanda zwa 900 zwi ita nanda dza _____.

zvitanda zwa 1 000 zwi ita nanda dza _____.



Teacher:
Sign:

Date:

112

Sendedzani kha 10 ya tsinisa

Dethi:

Themo ya 4

Kha bammbiri ja u shumela lo fhiraho ro ita zwa u sendedza tsini nomboro. Lavhelesani mutualombalo ni talutshedze khonani yanu uri ni do sendedza hani nomboro tsini fumi.



Ni elelwe uri ni tea u sedza dzyuniti musi ni tshi sendedza tsini na 10 ya tsinisa.

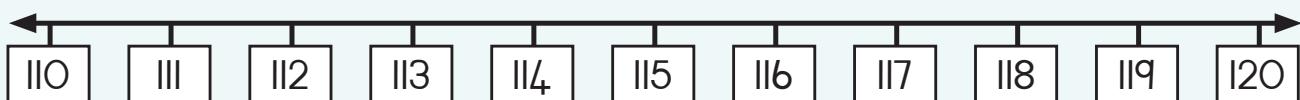


Sendedzani tsini na 10 ya tsinisa.



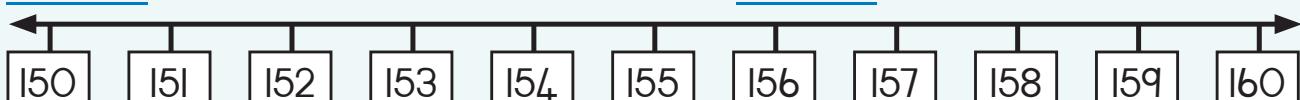
114 yo sendedzwa tsini ndi? _____

117 yo sendedzwa tsini ndi? _____



159 yo sendedzwa tsini ndi?

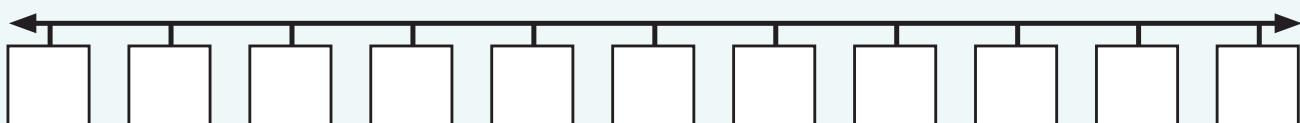
151 yo sendedzwa tsini ndi?



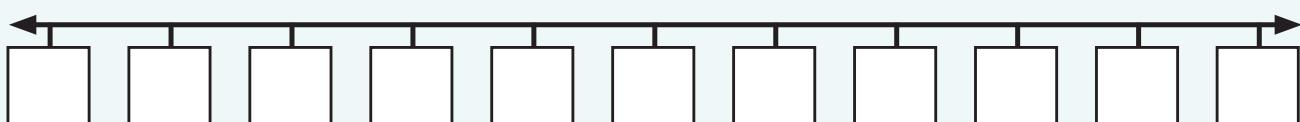
Sendedzani tsini na 10 ya tsinisa.

Oiani mutualombalo wa inwi muñe.

195



945



100

1 2 3 4 5 6 7 8 9 10

 Sendedzani tsini na 10 ya tsinisa.

Ni sa athu isa tsini:

- ñwalani uri nomboro i no khou sendedzwa tsini i vhukati ha mahumi mavhili afhio.
- sumbedzani lwa u tou anganyela nga musevhe vhuimo kha mutualombalo ha nomboro iyi i no khou sendedzwa tsini.

a. 128 yo iswa tsini na fumi \downarrow la tsinisa ndi 130



b. 877



c. 901



d. 566



e. 999



Sendedzani tsini na 10 ya tsinisa.

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

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



Ndi $\underline{d}\underline{o}$ shumisa noutu nngana dza RIO?

Mbali na khonani dzawe dza 8 vha khou ya vhu $\ddot{\text{t}}$ amboni ha $\ddot{\text{d}}$ uvha \downarrow la u $\ddot{\text{d}}$ iphina \downarrow la tshikolo.

Duvha $\underline{i}\underline{l}\underline{i}$ li badelelwa R4 muthu muthihi. Mbali o vhulunga tshelede ine a $\underline{d}\underline{o}$ badelelavho na avha vharwe ngayo. A ya ATM u bvisa tshelede. ATM i kona f'chedzi u bvisa tshelede ya dzinoutu. U tea u vha e na noutu nngana dza RIO?



II3

Muandiso na mukovho: u swika kha 100

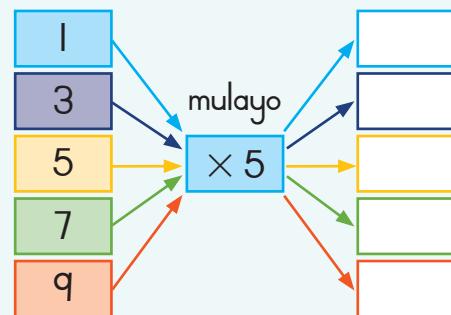
Dethi:

Themo ya 4



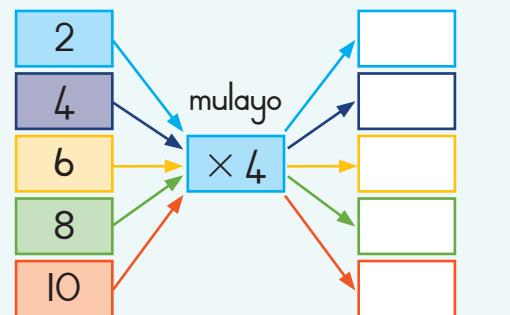
Fhedzisani nyolo ya muelo.

nomboronzheniswa



nomboromviswa

nomboronzheniswa



nomboromviswa



Fhedzisani thebulu i re afho fhasi:

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



Rekanyani:

$$12 \times 5$$

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

$$= 50 + 10$$

$$= 60$$

$$11 \times 5$$

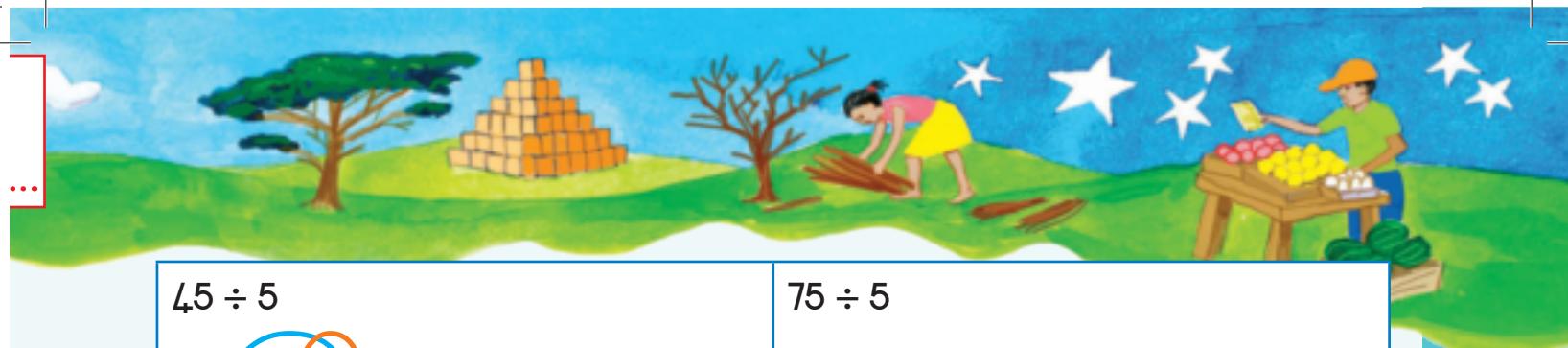
$$13 \times 5$$

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

$$= 50 + 15$$

$$= 50 + 10 + 5$$

$$= 65$$



$$45 \div 5$$

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

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

$$= 8 + 1$$

$$= 9$$

$$75 \div 5$$

$$48 \div 5$$

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

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

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

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

$$13 \div 5$$



Tandululani mbalo dzi tevhelaho:

Ngade ya miroho i na rou dza 14 dza zwimela.

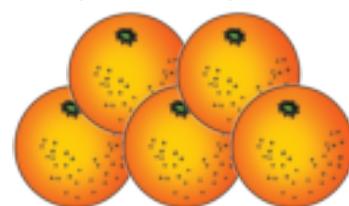
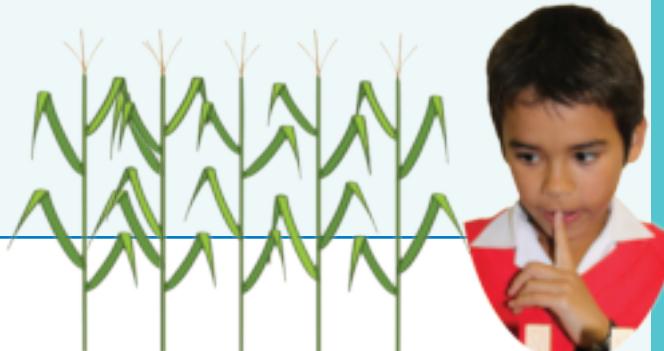
Rou iñwe na iñwe i na tshivhalo tshi no fana tsha zwimela.

Arali t̄hanganyelo ya zwimela i 70, hu na zwimela zwingana kha rou iñwe na iñwe?

David u rengisa zwikedzi zwi re na maswiri mat̄anu kha tshiñwe na tshiñwe.

U na maswiri a 85.

A nga ñadza zwikedzi zwingana.



114

Phetheni dza nomboro: t̄hanu u swika kha 1 000

Dethi:

Themo ya 4

Kha ri vhale nga t̄hanu 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 ṭahela.

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



Fhedzisani phetheni.

No kona u vhona phetheni?	I ṭalutshedzeni
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, _____	



11 12 13 14 15 16 17 18 19 20

11 12 13 14 15 16 17 18 19 20

1 2 3 4 5 6 7 8 9 10

115

Theme ya 4

Tshivononi.

Tambani na munwe nga inwi ni tshi shumisa sethe

dza phazili dia dzithali (zwipida zwa $\frac{1}{4}$) zwi no bva kha Tshigeriwa 10.

Mutambi munwe na munwe u na hafu ya zwipida (zwipida zwa 7) zwa phazwili ya dzithali.

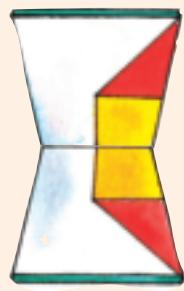
Zwipida a zwo ngo teea u fana.

Talani mutaladzi vhukati ha tsipida tsha bammibiri. U do vha wone "mutalo wa murunzi".

Zwino mutambi wa vhuhili u vhea murunzi wa itshi tsipida kha luriwe lurumbu lwa mutaladzi.

Tshi teea u kwama mutaladzi kana tshinwe tsha zwipida zwo no vhewaho.

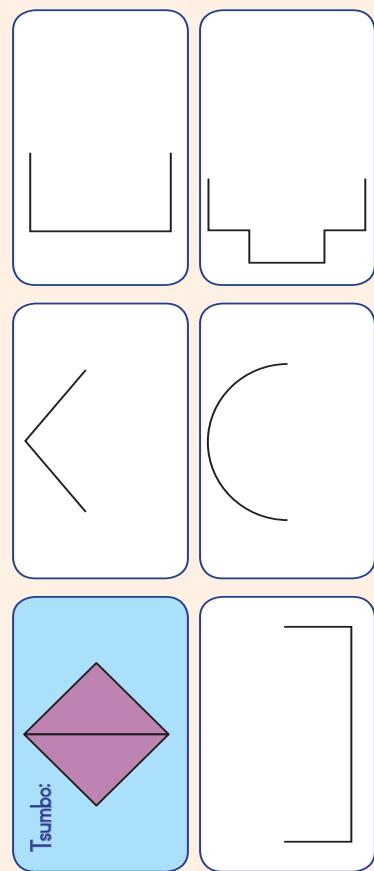
Isani phang'a u swika zwipida zweth'e zwo no fhelela.



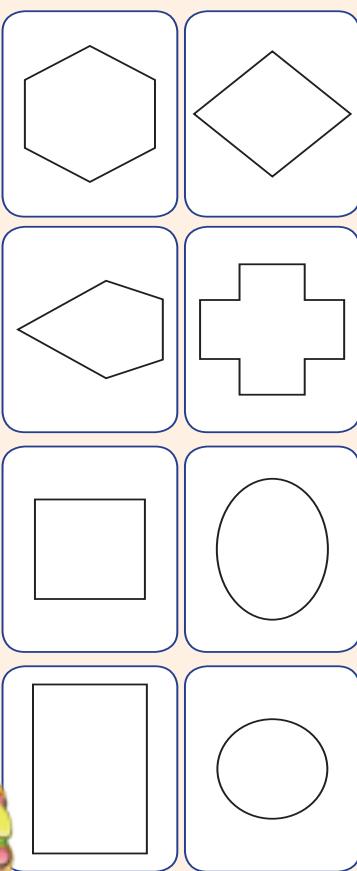
Zwinwe hafhu nga Simethiri (Ndinganahuhulii)

Date:

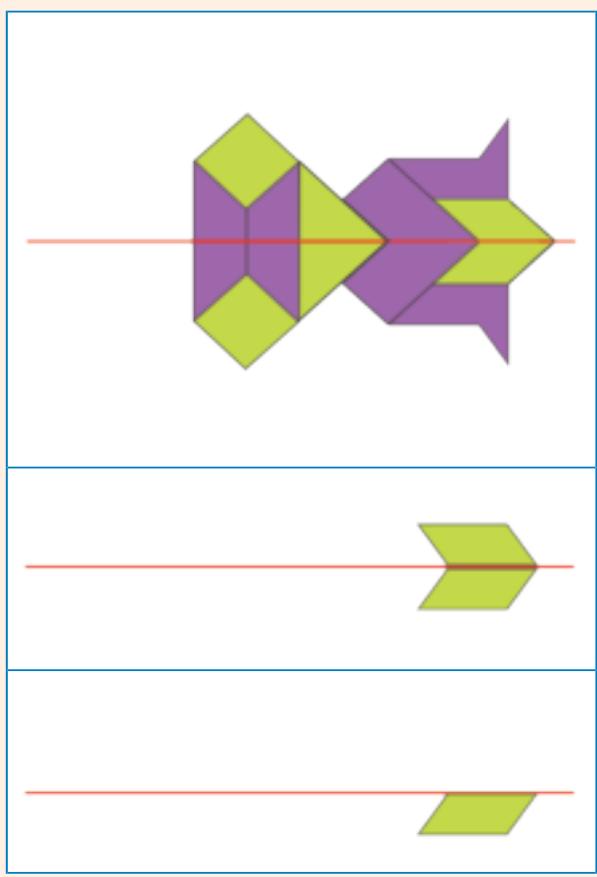
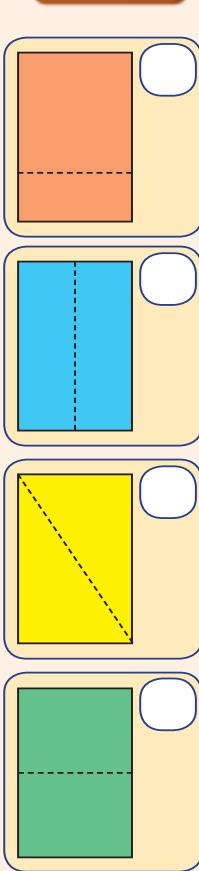
Olanı luq̄a luriwe lurumbu lwa tshivhumbeo.
Sumbedzani mutaladzi wa semethiri.



Talani mutaladzi wa simethiri wa zwi tshihelado:

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

Phetheni dza nomboro mbili u swika kha 900

Kha ri vha lenga t̄hanu 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 ifio?

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

Nwaliani phetheni:

Dzo tangedzelwaho nga muvhala mudala: U vhalela naga _____.

Nwaliani phetheni:



Rekanyani.

- | | | |
|----------------------------|--------------------|------------------------|
| a. $872 + 2 + 2 =$ | b. $820 - 2 - 2 =$ | 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. $846 - 2 - 2 - 2 =$ |

Themba ya 4

Odo na ivini.

a. Itani (X) tsini na nomboro dzo odo na tsini na nomboro dzo (V) ivini.

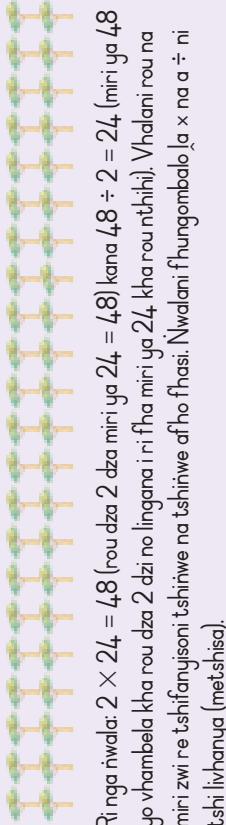
q14 q23 q16 q07 q29 q12 q11 q09 q22 q33

b. Fhindulanii uri ivini kana odo.
No t̄anganya nomboro mbili dza odo. Ni wana nomboro ya
No t̄anganya nomboro mbili dza ivini. Ni wana nomboro ya
No t̄anganya nomboro tharudza odo. Ni wana nomboro ya



U t̄avha mini.

Hei ndi inwe ndlla yau t̄avha miri ya 48 kha rou dici no egana.

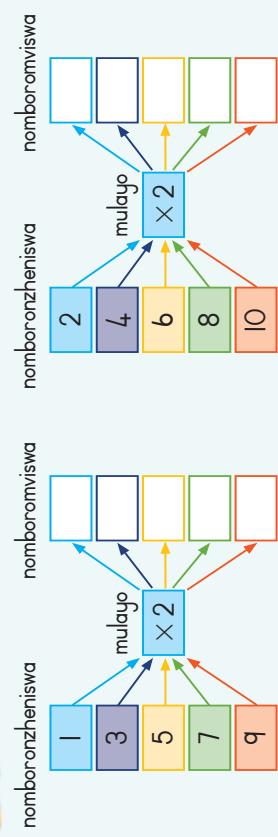


a. $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	b. $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	c. $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	d. $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	e. $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

Teacher:
Sgn:
Date:

Muaniso na mukovho: mbilibili (dzimibili) u swika kha 100

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i ne afiho fhasi:

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

Themba ya 4

$$46 \div 2$$

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

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

$$= 20 + 3$$

$$= 23$$

$$47 \div 2$$

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

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

$$= 20 + 3 \text{ ha sala}$$

$$= 23 \text{ ha sala}$$



Tandululani mbalo dici tevhelaho:

Ngade ya miroho ina rou dza 32 dza zwimela.

Rouinwe na inwe ina zwimela zwa 2.

Huna zwimela zwingana ngadeni?

Ngade ya miroho ina rou dza 40 dza zwimela.

Rouinwe na inwe ina zwimela zwa tshihalo tshi no lingana.

Arali hu na thanganyelo ya zwimela zwa 80, hu na zwimela zwingana kha rou inwe na inwe?

$$11 \times 2$$

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

$$= 20 + 4$$

$$= 24$$

$$22 \times 2$$

$$= (10 + 8) \times 2$$

$$= 20 + 16$$

$$= 20 + 10 + 6$$

$$= 36$$

$$12 \times 2$$

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

$$= 20 + 4$$

$$= 24$$

$$18 \times 2$$

$$= (10 + 8) \times 2$$

$$= 20 + 16$$

$$= 20 + 10 + 6$$

$$= 36$$

11

12

13

14

15

16

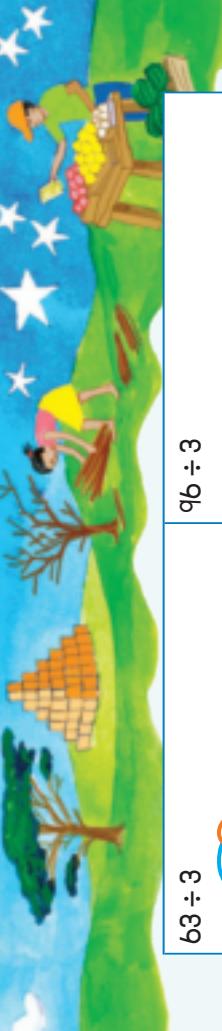
17

18

19

20



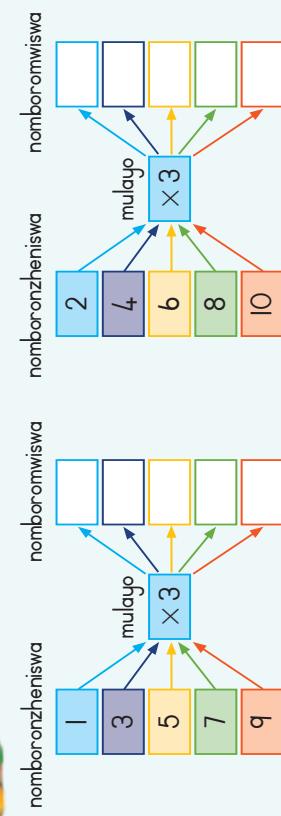


Datihi:

.....

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

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

	1	2	3	4	5	6	7	8	9	10
3										

Themo ya 4

18

$$63 \div 3 \\ = (60 + 3) \div 3 \\ = (60 \div 3) + (3 \div 3) \\ = 20 + 1 \\ = 21$$

$$96 \div 3 \\ = (90 + 6) \div 3 \\ = (90 \div 3) + (6 \div 3) \\ = 30 + 2 \\ = 32$$

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

$$98 \div 3 \\ = (90 + 8) \div 3 \\ = (90 \div 3) + (8 \div 3) \\ = 30 + 2 \text{ ha sala } 2 \\ = 32 \text{ ha sala } 2$$



Tandululani mbalo dici tevheldaho:

Musiliwa u na malegere a 30.

A fhira a Jacob kafumi.

Jacob u na malegere mangana?

Ngade ya miroho i na rou dia 29 dia zwimela.

Rouinwe na inwe i na zwimela zwa 3.

Hu na zwimela zwingana ngadeni?



Rekanyani:

$$11 \times 3$$

$$12 \times 3$$

$$= (10 + 2) \times 3 \\ = 30 + 6 \\ = 36$$

$$19 \times 3$$

$$17 \times 3$$

$$= (10 + 7) \times 3 \\ = 30 + 21 \\ = 30 + 20 + 1 \\ = 51$$

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

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

11

Phetheni dza nomboro tharu u swika kha l 000.

Kharri vha le nga tharutharu (dziraru) ubva 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

The mo ya 4

Debhi:

Bodo ya nomboro 901 u swika kha 900.

901		903	904		906	907		909	910
		912	913		915	916		918	919
921		922		924	925		927	928	930
931			933	934		936	937		939
		942	943		945	946		948	949
951		952		954	955		957	958	960
961			963	964		966	967		969
		972	973		975	976		978	979
981		982		984	985		987	988	990
991			993	994		996	997		999

Nwalani nomboro dici no khau tāhela.

Khalarani zwibuloko zwi re na nomboro i no khau tāhela nga muvhala mudala.
Khalarani zwibuloko zwitshena nga muvhala mutswuku. Ni kona uvhona phetheni ifhio?



Nomboro dzo tangedzelwaho dici ri sumbedza phetheni ifhio?

Dzo tangedzelwaho nga muvhala wa tshtopana:	U vhalelanga _____.
Nwalani phetheni:	U vhalelanga _____.
Dzo tangedzelwaho nga muvhala mudala:	U vhalelanga _____.



Rekanyani.

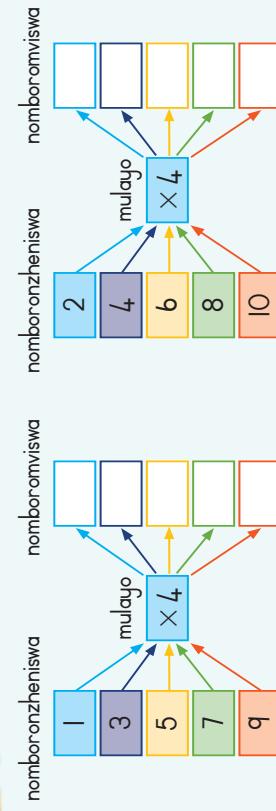
a. 873 + 3 + 3 =	b. 824 - 3 - 3 =	c. 84 + 3 + 3 =
d. 837 - 3 - 3 - 3 =	e. 889 + 3 =	f. 846 - 3 - 3 =
g. 802 + 3 + 3 + 2 =	h. 89 - 3 =	i. 880 - 3 - 3 - 3 =

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
51	52	53	54	55	56	57	58	59	60



Muandiso na mukovho: dziņa u swika kha 100

Fhedzisani nyolo ya muelo.

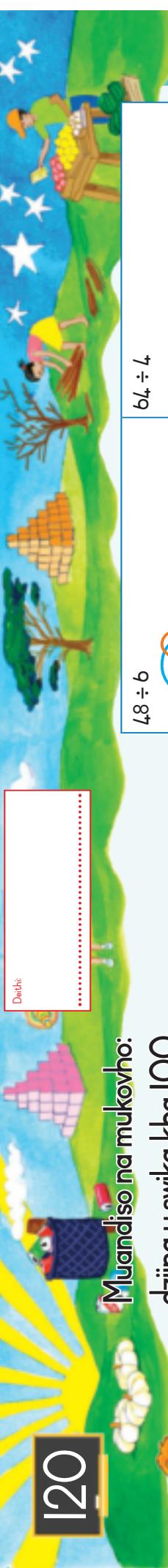


Fhedzisani thebūlu i re afho fhasi:

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

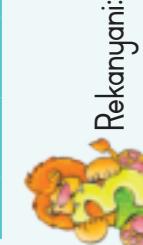
120

Themo ya 4



$$\begin{aligned}
 18 \div 6 &= (10 + 8) \div 4 \\
 &= (10 \div 4) + (8 \div 4) \\
 &= 10 + 2 \\
 &= 12
 \end{aligned}$$

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



Rekanyani:

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

$$\begin{aligned}
 13 \times 4 &= (10 + 3) \times 4 \\
 &= 10 \times 4 + 3 \times 4 \\
 &= 40 + 12 \\
 &= 52
 \end{aligned}$$



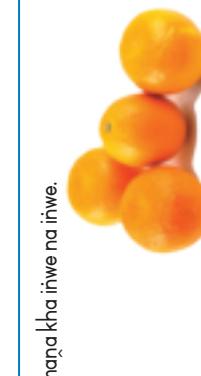
Tandululani mbalo dži tēvhēlāho:



Mulatēdzi u malegere a 36.

Uja malegere a 4 duvhālinwe na liwe.

A ngala malegere maguvha mangana?



Mulondo u na phakhethe dzi re na maswiri manākha inwe na inwe.

Una maswiri a 88.

A ngala kona u dādaza phakhethe nngana?

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

121

Phetheni dza nomboro: nñanña (dziñā) u swika kha | 000

Kharri vhole nga nñanña 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

Themo ya 4

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 khau tähela.

Khalarani zwibuloko zwi re na nomboro i no khau tähela nga muvhala muddala.



Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifio?

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

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

Nwalani phetheni:
Nwalani phetheni:

a. Tanganyani ina dza 4 kha 980.

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.

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

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

Date:



Zwi^gda zwi no lingana zwa yot^he

Hafu nthikihi, nga ndila dzo fhambananaho dza u i tshea.



Gerani rekithiengle dzitshi bva
kha bammbiri [a muhala
(kha Tshigeriwa tsha)].

Wanani dziinwe ndila dzo fhambananaho dza u vhumba hafu nthikihi.

- Petani rekithiengle ya bammbiri nga vhukati ni tshi tevhedza vhlapfu. Gerani bammbiri nga vhukati hemeflo he na peta hone. Zwi^gda izwi a lingana. Tshiniwe na tshiniwe tsazwo tshi pfinri hafu nthikihi ($\frac{1}{2}$) ya rekithiengle ya kale na kale (ya u thoman).
- Petani rekithiengle ya bammbiri nga vhukati ni tshi tevhedza u rambala. Gerani bammbiri nga vhukati hemeflo he na peta hone. Zwi^gda izwi a lingana. Tshiniwe na tshiniwe tsazwo tshi pfinri hafu nthikihi ya bammbiri ja kale na kale (ja u thoman).
- Huna ndila ifhio inwe ya u fhandula bammbiri ja bva zwi^gda zwikili zwi no lingana? Edisanri ni tshi shumisa tsingero na bammbiri, ni kone uita mutalo wa zwitomathoma atho he na peta hone ni gere.



Zwi^gda zwi no lingana zwa tshot^hhe hafu.

Musi ri tshi khethekanya tshithu tsha bva zwi^gda zwa 2 zwi lingana, izwo zwi^gda ri zwi vhidza dzihfu.

Musi ri tshi khethekanya tshithu tsha bva zwi^gda zwa 3 zwi lingana, izwo zwi^gda ri zwi vhidza zwarau.

Musi ri tshi khethekanya tshithu tsha bva zwi^gda zwa 4 zwi lingana, izwo zwi^gda ri zwi vhidza dzikota kana zwaina.

Musi ri tshi khethekanya tshithu tsha bva zwi^gda zwa 5 zwi lingana, izwo zwi^gda ri zwi vhidza zwat^hanu.

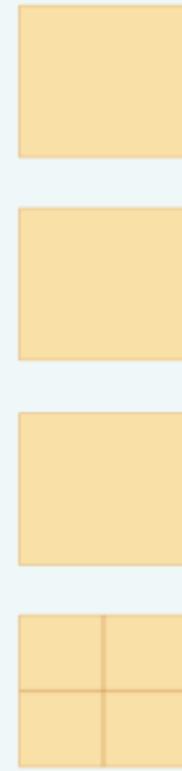
Sangweushi dza tshiswitu^lulo.

Thendo na khonani dzawe dza 3 vha a ita sendiwitshi mnzhi dza tshiswitu^lulo.

Vha dizi tshea nga dzikota na zwai^ga kana dzikota.

Hezwi zwi amba uri who dizi tshea dza bva zwi^gda zwa 4 zwi lingana.

Inwe ndila asiyi. Sumbedzani dziinwe ndila tharu dzine na nga zwita ngadzo.

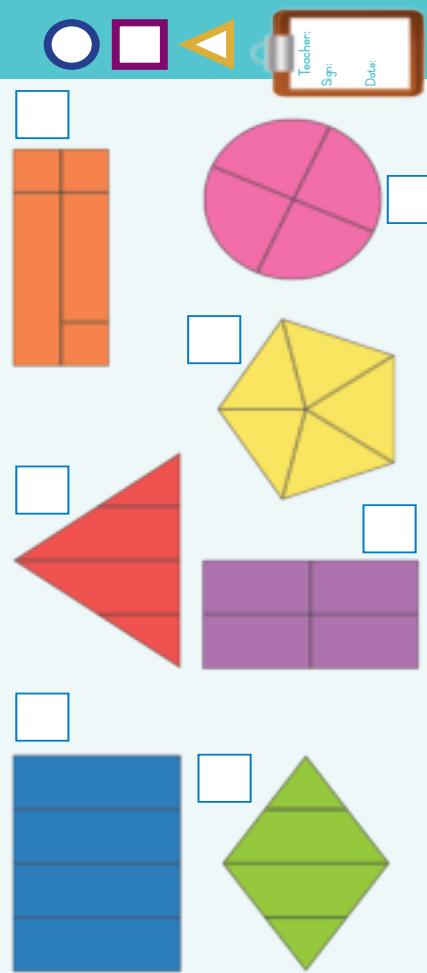


Tolani! Vhambedzani!
Lulamisan!



Ukovha ha bva zwaina.

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

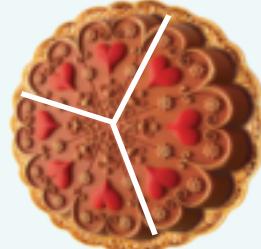


1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

Mbalo dza furakhisheni

Rerani nga dzifurakhisheni ni na khonani dzanu.



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

a. Khatshara ya netibolo u fha mutambi muñwe na muñwe hafu ya swiri. Hun na vhatambi vha **l4**.
U tea u vha e na maswiri mangana? _____

Mbudziso ndi ifhio? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi li re khii ndi ifhio? _____

Olanitshifanyiso.



Phindulo ndi ifhio? _____

b. Mme anga vha fha moe na khonani dzanga dza fumintihhi kota ya apula muthu muthini.

Vha teau vha vhe na maapula mangana? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo?

Ipfi li re khii ndi ifhio? _____

Olanitshifanyiso.



Phindulo ndi ifhio? _____

c. Ngaguvha la vhutambo ha tsikolo ho renjiswa khekhe dze dza vha dzo tschewa ntshili ya bava zwipiga zwiraru.

Vha renjisela vhatshu vha **24**, zwilai zwa khekhe.
Vho renjiswa khekhe ngana? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo?

Ipfi li re khii ndi ifhio? _____

Olanitshifanyiso.



Phindulo ndi ifhio? _____

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

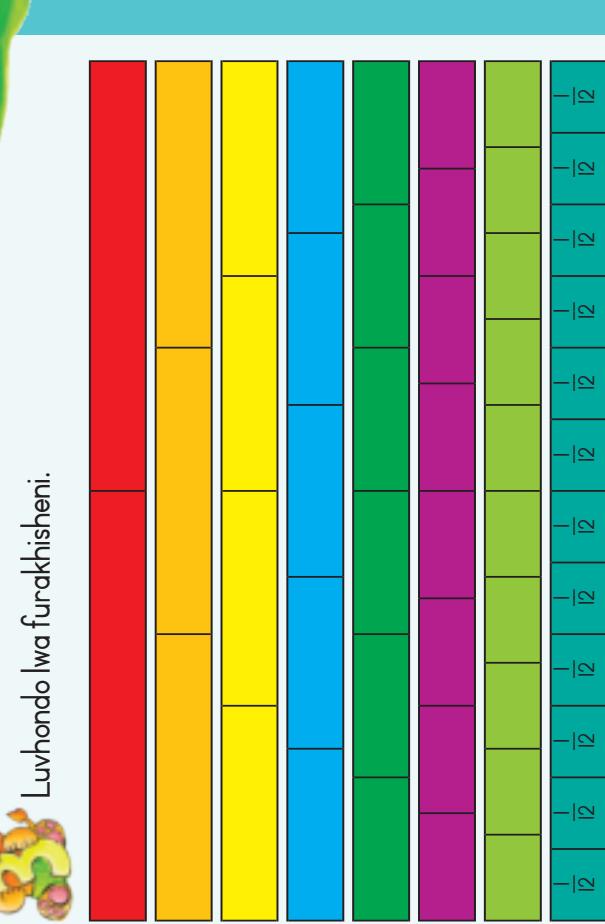


Furakhisheni haf^{hu}

Bulani dzina[la furakhisheni.
Nwalani furakhisheni ya zwifanyiso zwi re dñho fhasi.

a. Zwitswukundi furakhisheni ifhio?	b. Zwiddlandi furakhisheni ifhio?
c. Zwalutombo ndi furakhisheni ifhio?	d. Zwa t̄ada ndi furakhisheni ifhio?

Themo ya 4



Luhondo lwa furakhisheni.

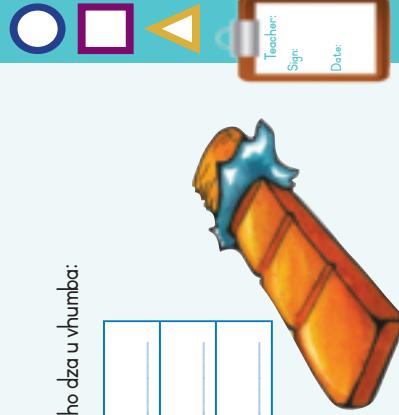
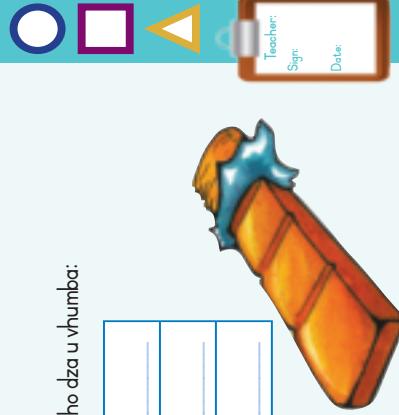
Rou iñwe naiñwe i khethekanywa ya bva zwipida zwi no lingana. Rou ya nga fhasi i khethekanywa yabva zwa fumimbi ($\frac{1}{12}$).
Lébulani dzila dzirwe rounga furakhisheni dži re dzone. Shumisaní ruja kana lumemetsvitü iwa bammbari kha u wanauri ndi furakhisheni dzifhio dži no lingana. Khatihini nau ni thusa u fhindula hedzi mbudziso.

Kha luhondo lwa furakhisheni, wanani ngila dzo fhambaranaho dza u vhumba:

- a. hafu nthiki $\frac{1}{2}$
- b. nthiki yøthe ()
- c. kota tharu $\frac{3}{4}$

- Tolani! Vhambedzanil
Lumisaní
- a. Sizwe u na zwipida zwi a zwa tsokoleithi. U fha khonani yawe tsithihi.
Ho sala furakhisheni ifhio ya tsokoleithi? _____
 - b. Yasmin u na maswiri mavhili. O kovhekana lithihi na Ann.
Ho sala furakhisheni ifhio? _____
 - c. Maria u rengu mabophathi a 5 a tsokoleithi. U divhetshela la I, a fha Mohammed a 2, na khaladzi awe a mu fha a 2. Maria u divhetshela furakhisheni ifhio? _____

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



127

Teacher:
Sign:
Date:

126

Themba 4

Todani vhusheka.



Mirekanyotshihadu.

Uvheea ngoro zwigwada na u kovhana hafhu

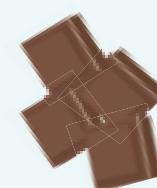
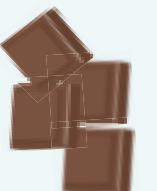
Date:

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

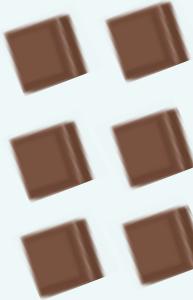


Kovhekana zwe zwa sala.

Ntakadzeni na Lihlu vha khou tøøda u kovhekana zwiøida zwa 13 zwa tsbokoleithi. Muriwe na muriwe u wana zwiøida zwingana?



Vha ngaka fñedzi u kovhekana kwækwea zwo fñaledho zwa 12. muriwe na muriwe u wana zwa ratih. Tshipida tsho salaho vha tshi padula nga vhukati. zwino muriwe na muriwe u wana zwiøida zwa $b\frac{1}{2}$.



a. Vhana vha 10 vha re phathini vha kovhekana zwiøipri zwa swijiri zwa 25. Kovhekana kwickwakwa! Olani tshifanyiso uri tshi ni thuse.



Muriwe na muriwe u wana zwiøipri zwa _____

b. Kovhelani vhana vha 4 zwiøipri zwa 37.

Muriwe na muriwe u wana zwiøipri zwa _____

c. Kovhelani vhana vha 5 zwiøipri zwa 48.

Muriwe na muriwe u wana zwiøipri zwa _____

d. Kovhelani vhana vha 10 zwiøipri zwa 73.

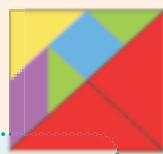
Muriwe na muriwe u wana zwiøipri zwa _____



Furakhisheni dia Thangeramu

Thangeramu ndi phazili ya kale ya Tshikhishena yo itwaho nga zwilvhumbeo zwa 7 zwa mbaphathi, zwine zwa vhidzwa upfindi dzithenge, zwothe zwi vhewa fletchu huthihini uni zwi vhumbe zwilvhumbeo zwo fhambananaho.

Furakhisheni kha thangeramu.



Lavhelesani phazili ya thangeramu. Irwe na irwe ya thiraiengele mbili khulwane ita furakhisheni ifhio ya tshikwea tshothé?

(Dza pinki tsifanijisoni itshi.)

Arali na nga petanthiki ya thiraiengele khulwane ya bva zwipida zwilvilli zwi no lingana, tshipida tshinwe na tshinwe tshi lingana na thiraiengele ya sazi ya vhukati (Ya toda tsifanijisoni). Thiraiengele ya vhukati ndi furakhisheni ifhio ya tshikwea tshothé?

Arali na petathiraiengele ya vhukati ya bva zwipida zwilvilli zwi no lingana, tshipida tshinwe na tshinwe tshi lingana na thiraiengele mbili thukku. (Dza muvhala muddala tsifanijisoni). Thiraiengle irwe na irwe thukku ndi furakhisheni ifhio ya tshikwea tshothé?

Ni nga kwekwanyisa thiraiengele mbili thukkuuri ni vhumbe tshikwea tshiluku. Tshikwea tshiluku ndi furakhisheni ifhio ya tshikwea tshothé (tshidala tsifanijisoni)?

Ni nga kwekwanyisa thiraiengele mbili thukkuuri ni vhumbe pharalelogreme. Pharalelogreme ndi furakhisheni ifhio ya tshikwea tshothé?

U shumisa thangeramu.

Gerani thangeramu kha Tshigeriwa 12 ni nwalo furakhisheni ya tshikwea tshothé ni lebulé tshipida tshinwe na tshinwe. [Hezwi ndi zwipida zwa kale na kale/zwa u thomanzi zwa zwilvhumbeo zwa Thangeramu]. Nwalani dzina laqun nga murahu ha tshipida tshinwe na tshinwe uitela urini kone u wana zwipida zwanu murahu musi no fhedza u tama.

Mutambo wa furakhisheni wa mikovhe i no lingana.



Tambani na vhatambi vha 48 ni tshi shumisa zwipida zwanu zwa thengeramu

- Vhatambi vha sielsana kha u vha vharenjisi.
- Murengisi ndi ene ane a ta uru munwe na munwe wa vhatambi u dzenisa furakhisheni ifhio ya thangeramu yothé kha tshikwama (kithhi).



Munwe na munwe u tea u dzenisa kola nthiki ya thangeramu ngomu tshikwamani.

- Vhatambi vha sielsana kha u vha vharenjisi.
- Murengisi ndi ene ane a ta uru munwe na munwe wa vhatambi u dzenisa furakhisheni ifhio ya thangeramu yothé kha tshikwama (kithhi).
- Mutambo munwe na munwe u humbulela uri khoini i do wa nge thoho naa kana nga mutshila, murengisi a konu u thosa khoini.
- Murengisi u kovha tshikwama nga ndila i no lingana kha avho vhe vha humbulela zwone. (Avho vhathee vha nga tea u tshintshisa tshipida tsikithiki kana zwintshi nge tshinwe kana zwinwe zwi re na mutengo u no fana/muthihizi.)
- Zwo salaho zwe zwa si kone u kovhiwa zwi sala tshikwamani u itela raundu i tsheldho.
- Vhatambi vhothe vha a tsholauri u kovhekana hu khoutwa nge ndila yone naa.



- Zwihili zwando zwi lingana na tsithi nthiki tsisha. Ndi nga kona u dzenisa tshikwea na pharalelogreme.
- Zwo salaho zwe zwa si kone u kovhiwa zwi sala tshikwamani.
- Mutambo u a ya phanda u swika mutambi munwe na munwe o vha murengisi.



- Mutambo wa furakhisheni wa mikovhe i no lingana.
- Arali mutambo a nga vha vhumbe, murengisi u a latisiva nga u badelisa gya tshikwea tshothé a tshi badela mutambi we a vha ene wau thoma u vha vhumbe.
- Mutambo ane a si vhe na zwipida a ngatusa tshithili kha zwo salaho tshikwamani.



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

28a

Uela khaphasithi (ndalo)



Themo ya 4

Shumisan
tshifaredzi tsha
bodelo la pulsituki
na khaphu.

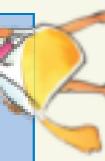
khaphu ntshili
(250 ml)

A no ngo teau bula
dzilitha kana miliitha.
Shumisan i fheedi majifi a
no ri khaphuna bodelo.

Itani l̄tha.

Nwaliari fhungombalo ja ndala inwe na inwe.

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



Fhungombalo

= 1000 ml (l)

Fhungombalo

= 1000 ml (l)

Fhungombalo

= 1000 ml (l)

Musi ri tshti nwala tswago dza metchinkli, ni sia tsikhakha tsithaku vhuketi ha didzithi yau
fhedzisele na luswayo. Sa tsumbo ri nwala 3 l hu si 3l; 299 g hu si 299g; 15 km hu si 15km.

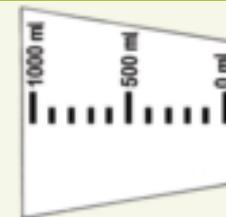
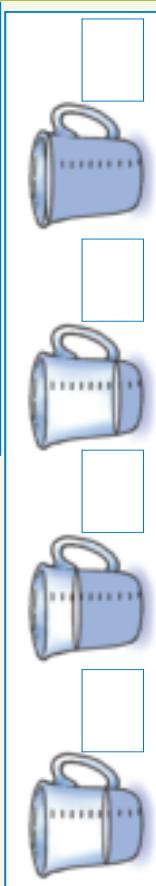
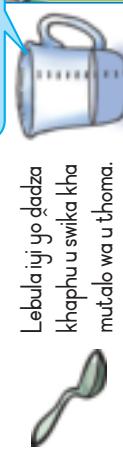
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10



Khaphasithi ya khaphu ndi

10 ngeno yolumu ya khaphu
ye ya glazidwa i!

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



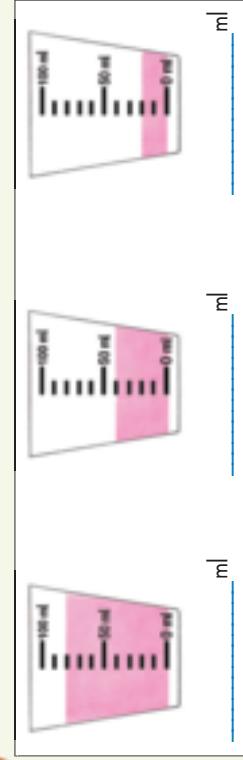
Rela muelo wa zwiludi zwituku nga dzimilitha (ml).

Khaphu ya muelo wa mishonga i ita 10 ml, i no lingana
na zwilebula zwituku zwiludi.

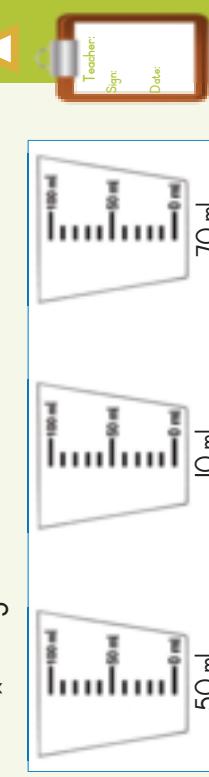
Rela muelo minzhi ya zwiludi nga dzilitha (l).

Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



Hu na zwiludi zwingafhani?

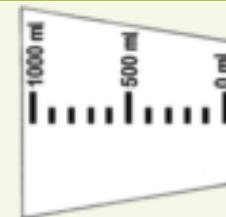
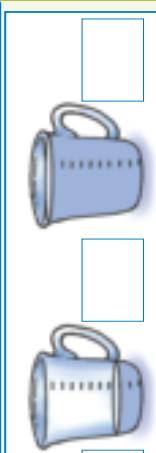


Swifhadzani khaphu
dza mishonga ni tsiki
sumbedza tshivhalo
tshi re kha inwe
na inwe.

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



Khaphasithi ya khaphu ndi

10 ngeno yolumu ya khaphu
ye ya glazidwa i!Lebulaiju yo dadza
khaphu swika kha
mutalo wa u thoma.

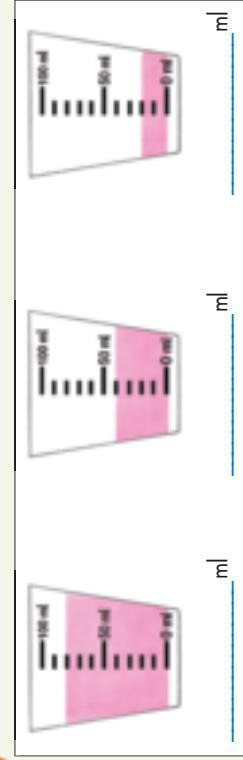
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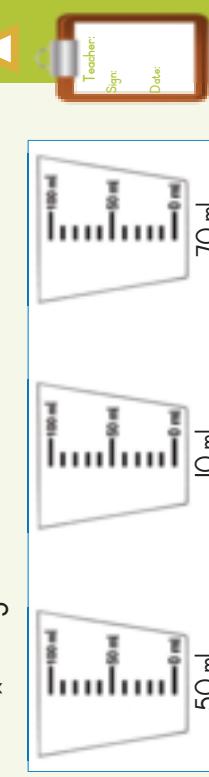
Rela muelo minzhi ya zwiludi nga dzilitha (l).

Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



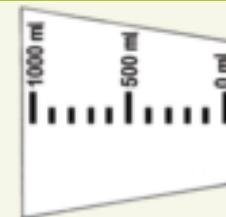
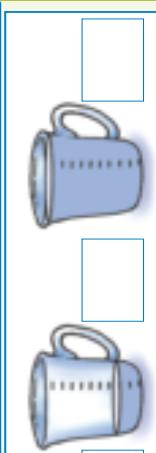
Hu na zwiludi zwingafhani?



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



Khaphasithi ya khaphu ndi

10 ngeno yolumu ya khaphu
ye ya glazidwa i!Lebulaiju yo dadza
khaphu swika kha
mutalo wa u thoma.

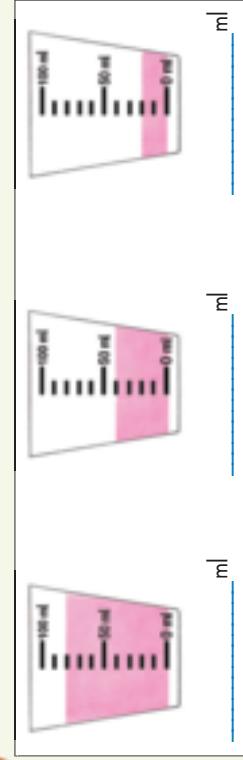
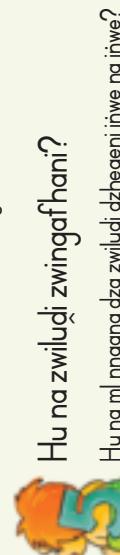
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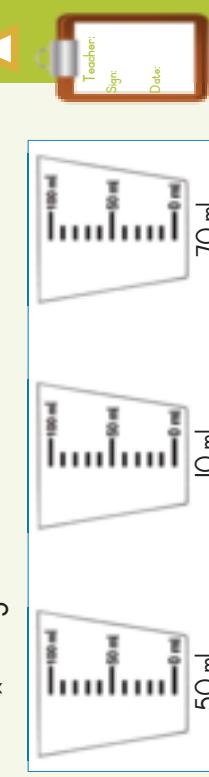
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Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



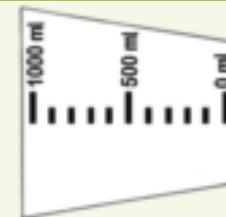
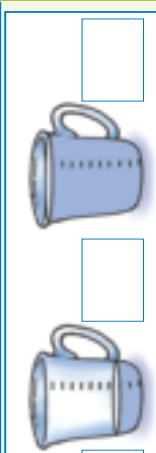
Hu na zwiludi zwingafhani?



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



Khaphasithi ya khaphu ndi

10 ngeno yolumu ya khaphu
ye ya glazidwa i!Lebulaiju yo dadza
khaphu swika kha
mutalo wa u thoma.

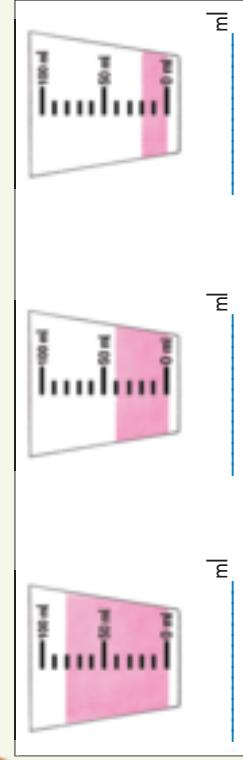
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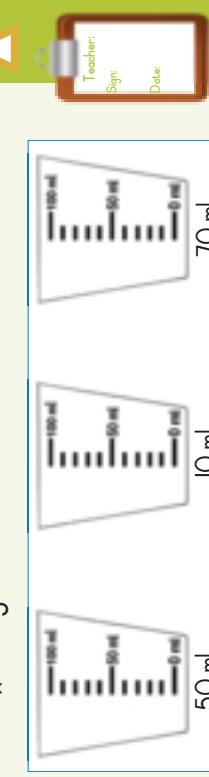
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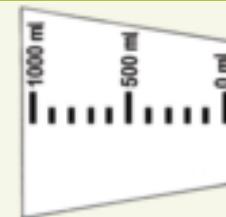
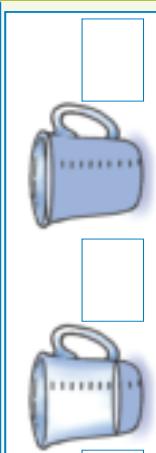
Hu na zwiludi zwingafhani?



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



Khaphasithi ya khaphu ndi

10 ngeno yolumu ya khaphu
ye ya glazidwa i!Lebulaiju yo dadza
khaphu swika kha
mutalo wa u thoma.

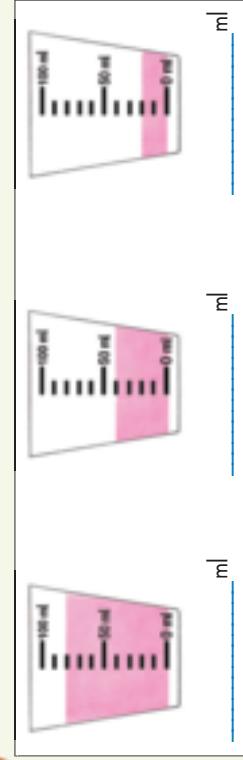
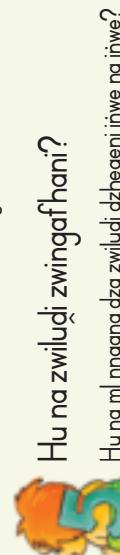
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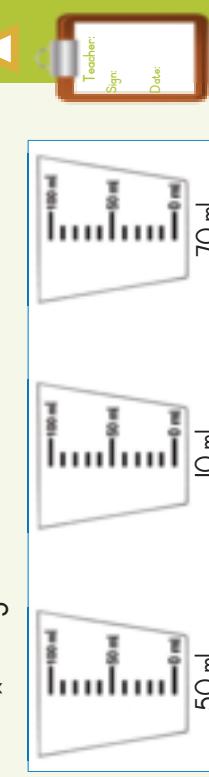
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Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



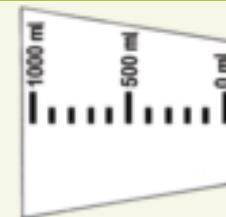
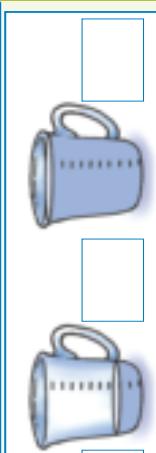
Hu na zwiludi zwingafhani?



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



Khaphasithi ya khaphu ndi

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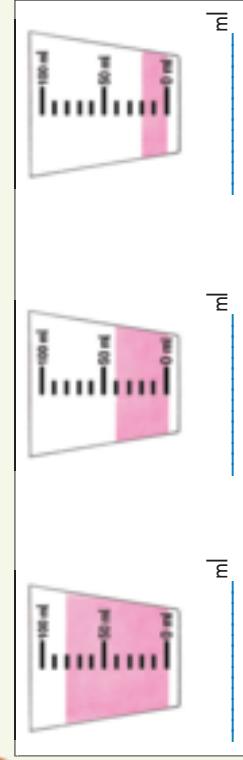
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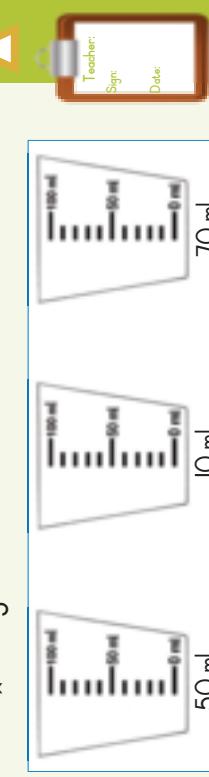
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Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



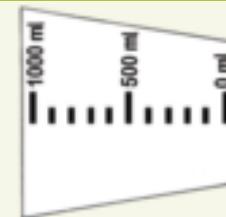
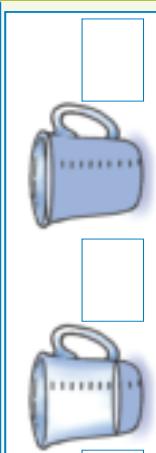
Hu na zwiludi zwingafhani?



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



Khaphasithi ya khaphu ndi

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khaphu swika kha
mutalo wa u thoma.

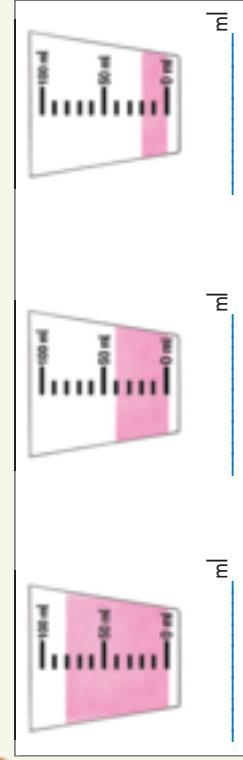
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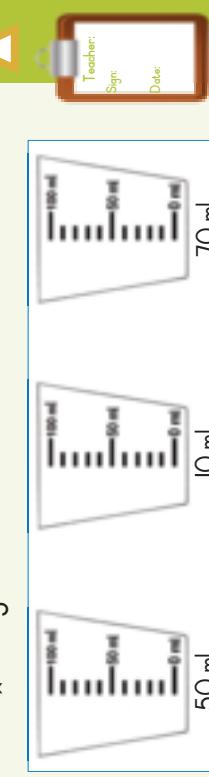
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Hu na zwiludi zwingafhani?



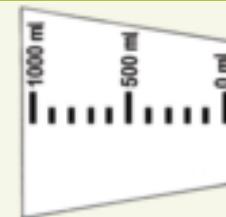
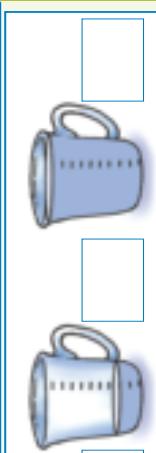
Hu na zwiludi zwingafhani?



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



Khaphasithi ya khaphu ndi

10 ngeno yolumu ya khaphu
ye ya glazidwa i!Lebulaiju yo dadza
khaphu swika kha
mutalo wa u thoma.

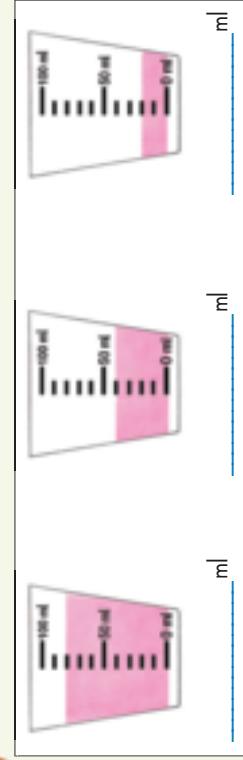
Rela muelo wa zwiludi zwituku nga dzimilitha (ml).

Khaphu ya muelo wa mishonga i ita 10 ml, i no lingana
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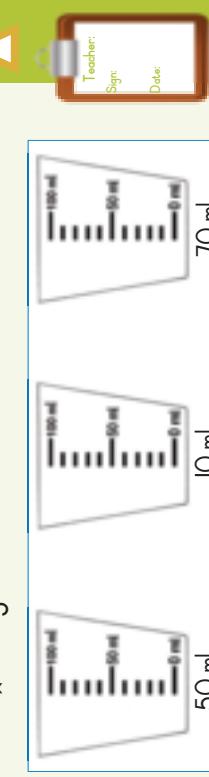
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Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



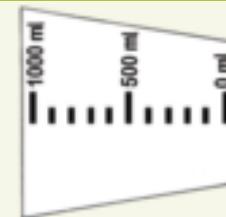
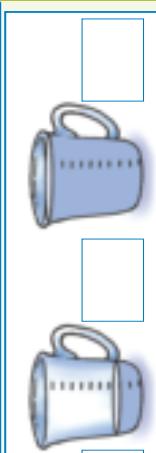
Hu na zwiludi zwingafhani?



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



Khaphasithi ya khaphu ndi

10 ngeno yolumu ya khaphu
ye ya glazidwa i!Lebulaiju yo dadza
khaphu swika kha
mutalo wa u thoma.

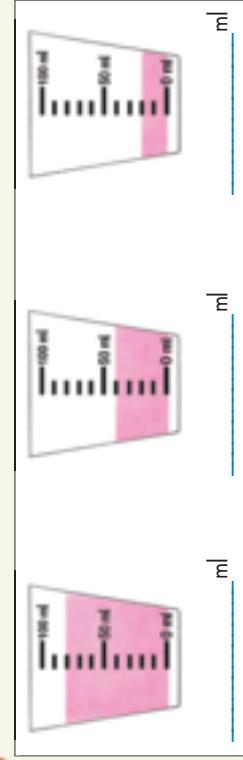
Rela muelo wa zwiludi zwituku nga dzimilitha (ml).

Khaphu ya muelo wa mishonga i ita 10 ml, i no lingana
na zwilebula zwituku zwiludi.

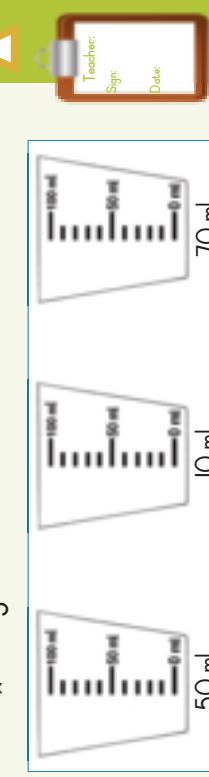
Rela muelo minzhi ya zwiludi nga dzilitha (l).

Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



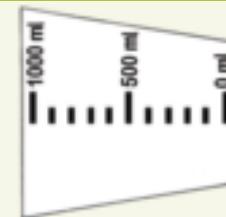
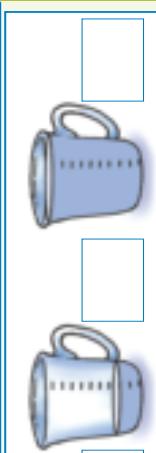
Hu na zwiludi zwingafhani?



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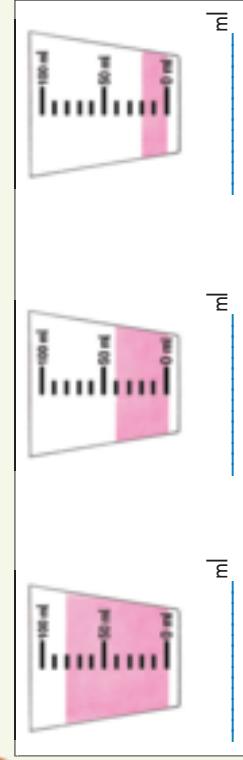
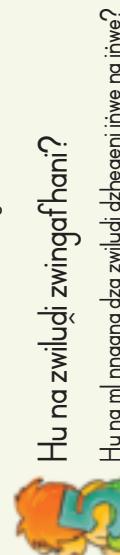
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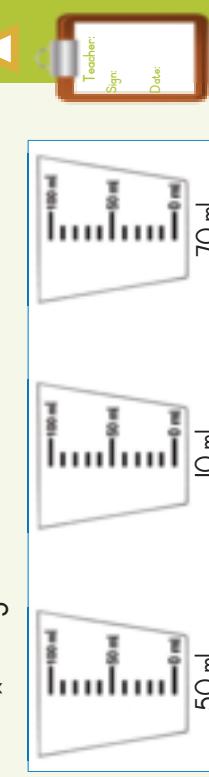
Rela muelo minzhi ya zwiludi nga dzilitha (l).

Hu na mililitha dza zwigisi kha lithanthiki.

Hu na zwiludi zwingafhani?



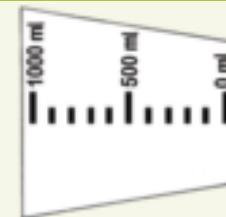
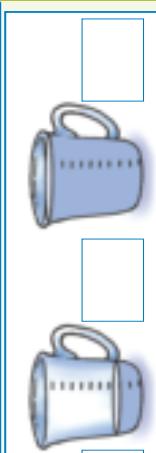
Hu na zwiludi zwingafhani?



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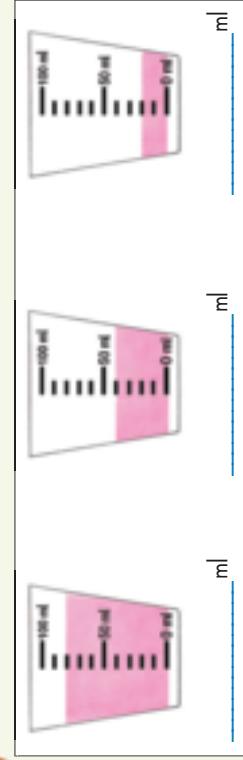
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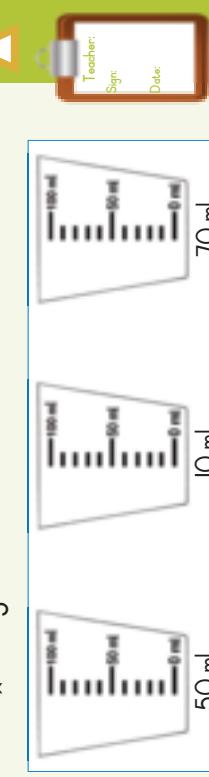
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Hu na zwiludi zwingafhani?



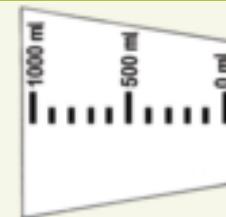
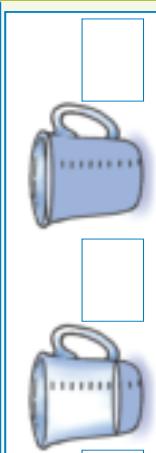
Hu na zwiludi zwingafhani?



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

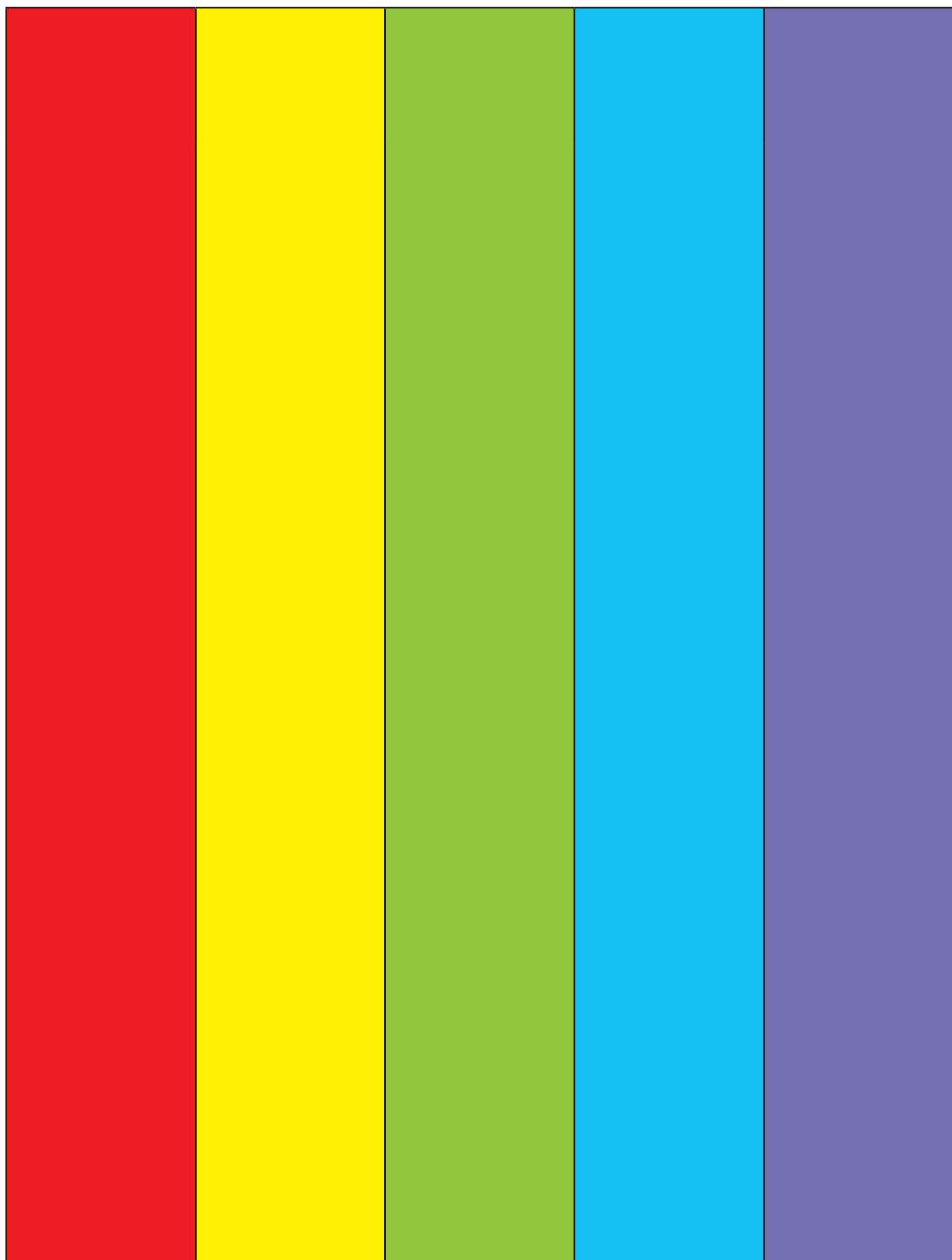


Khaphasithi ya khaphu ndi

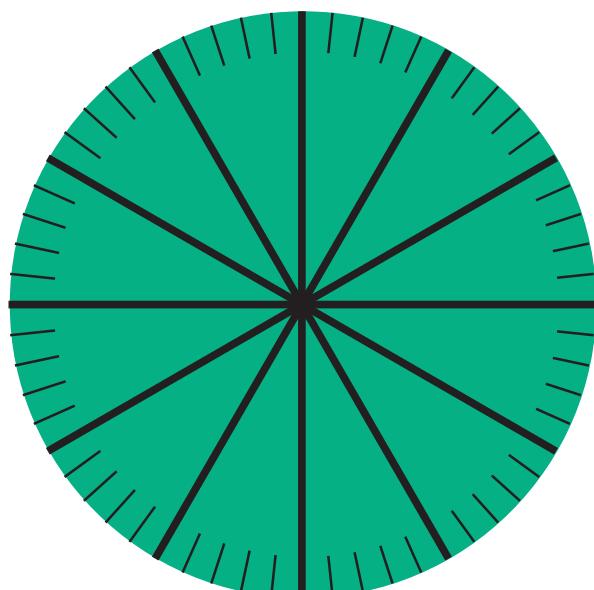
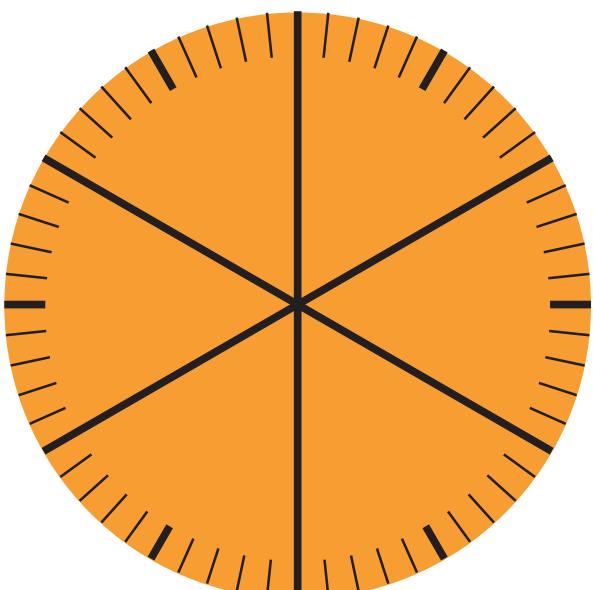
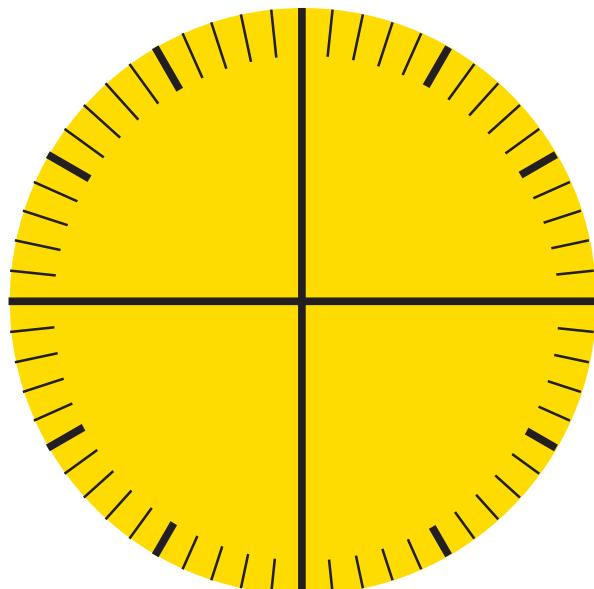
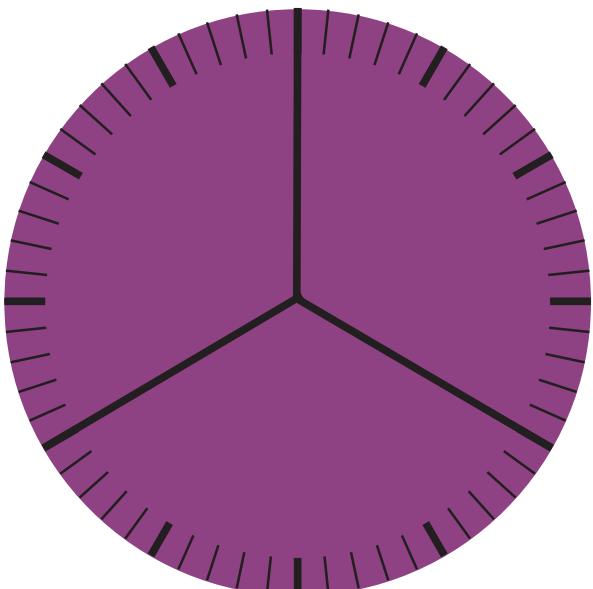
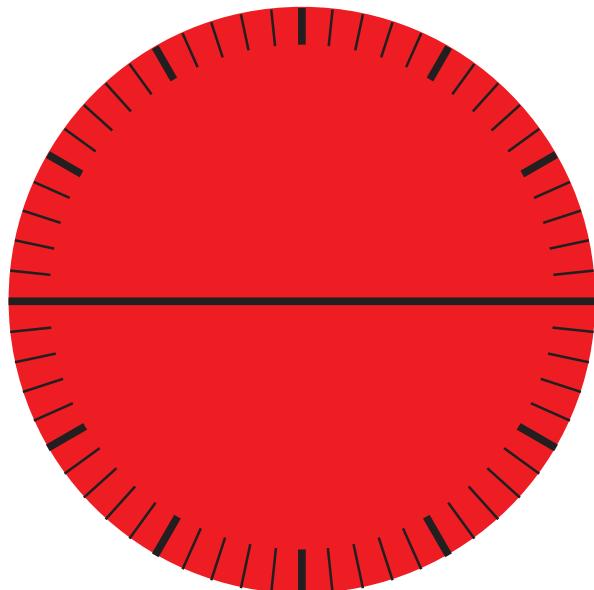
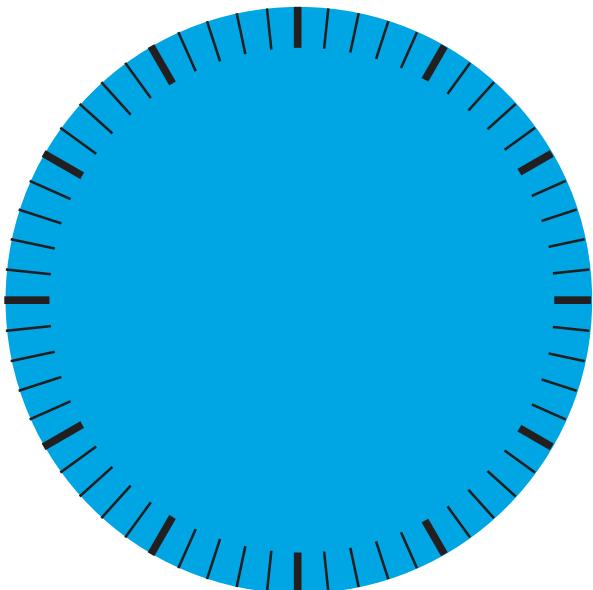
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mutalo wa u thoma.

Rela muelo wa zwiludi zwituku nga dzimilitha (ml

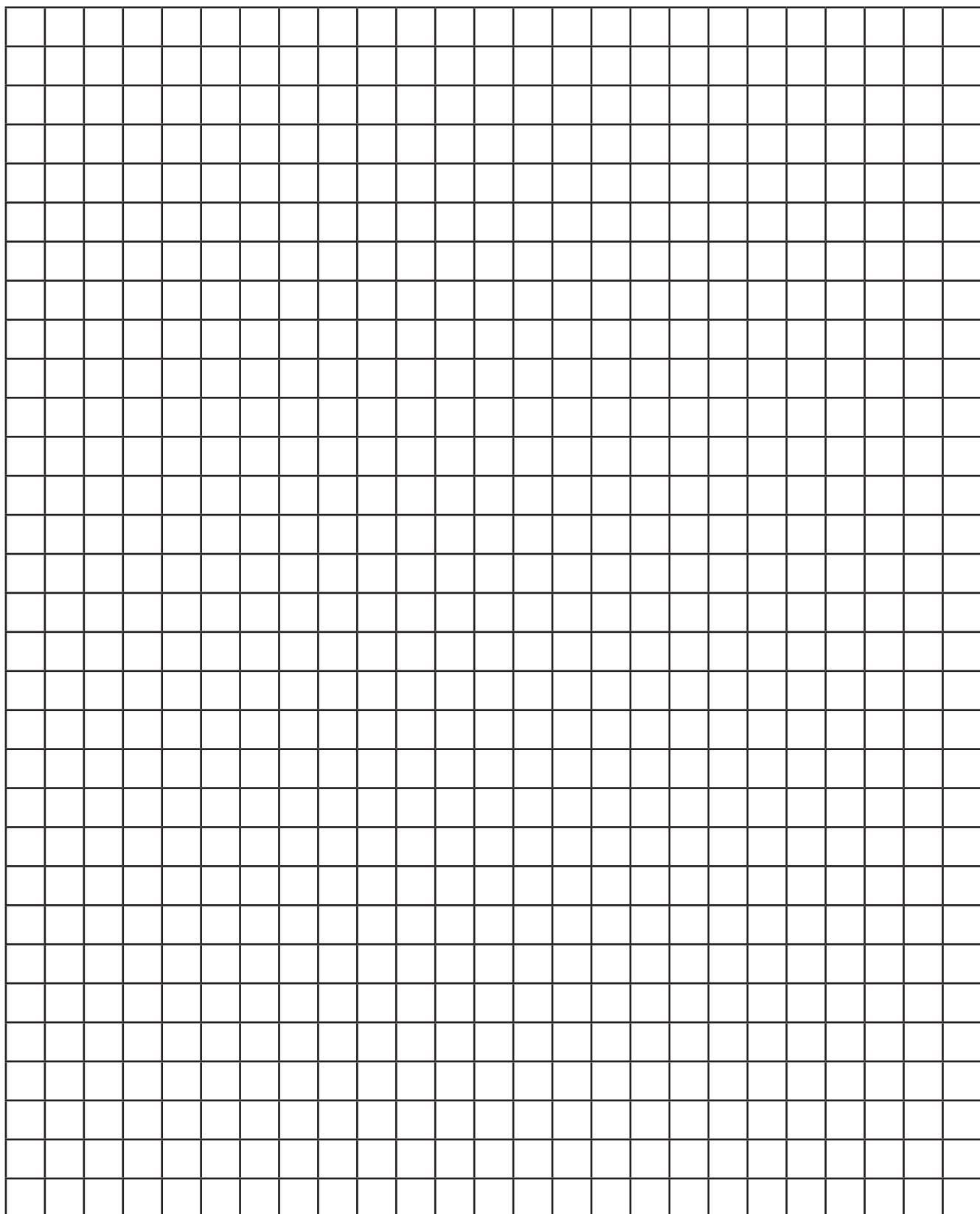
Tshigeriwa 5



Tshigeriwa 6



Tshigeriwa 7

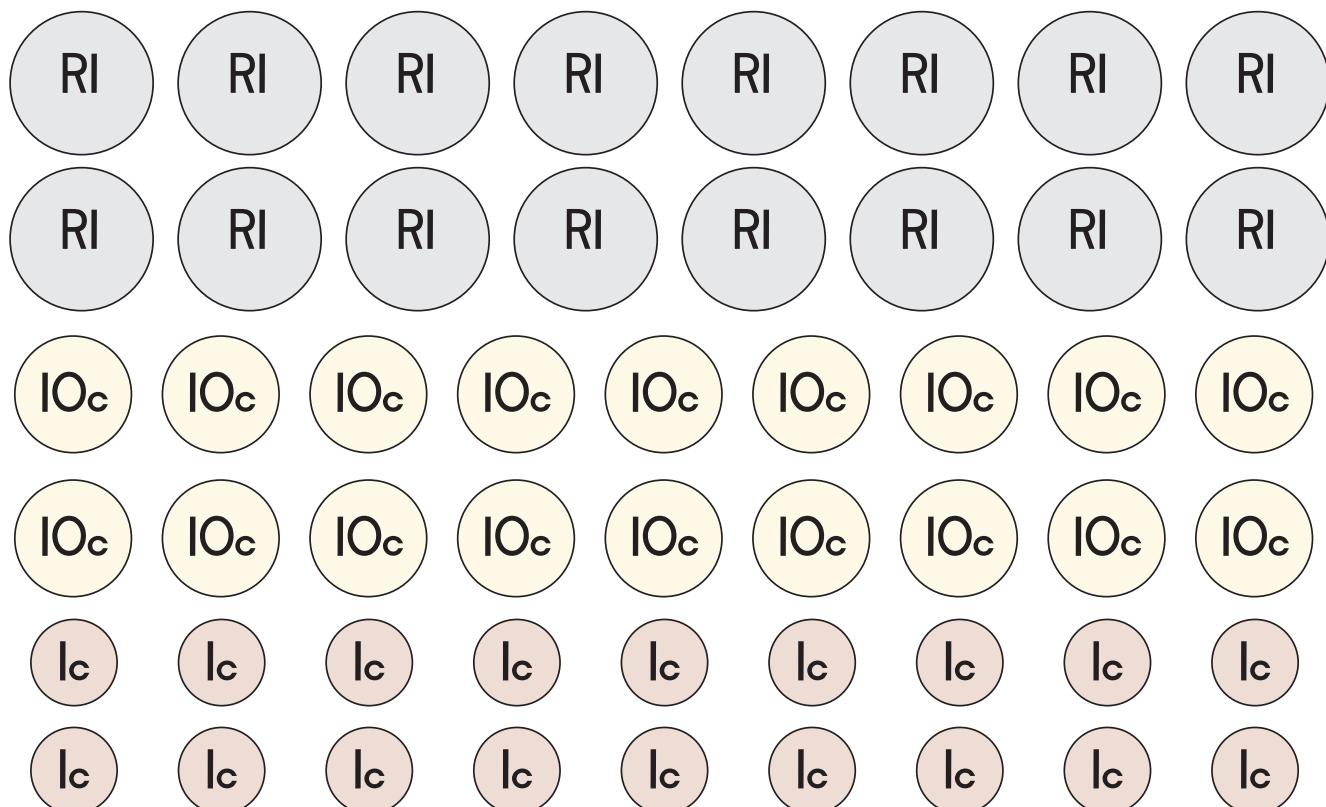


Tshigeriwa 8

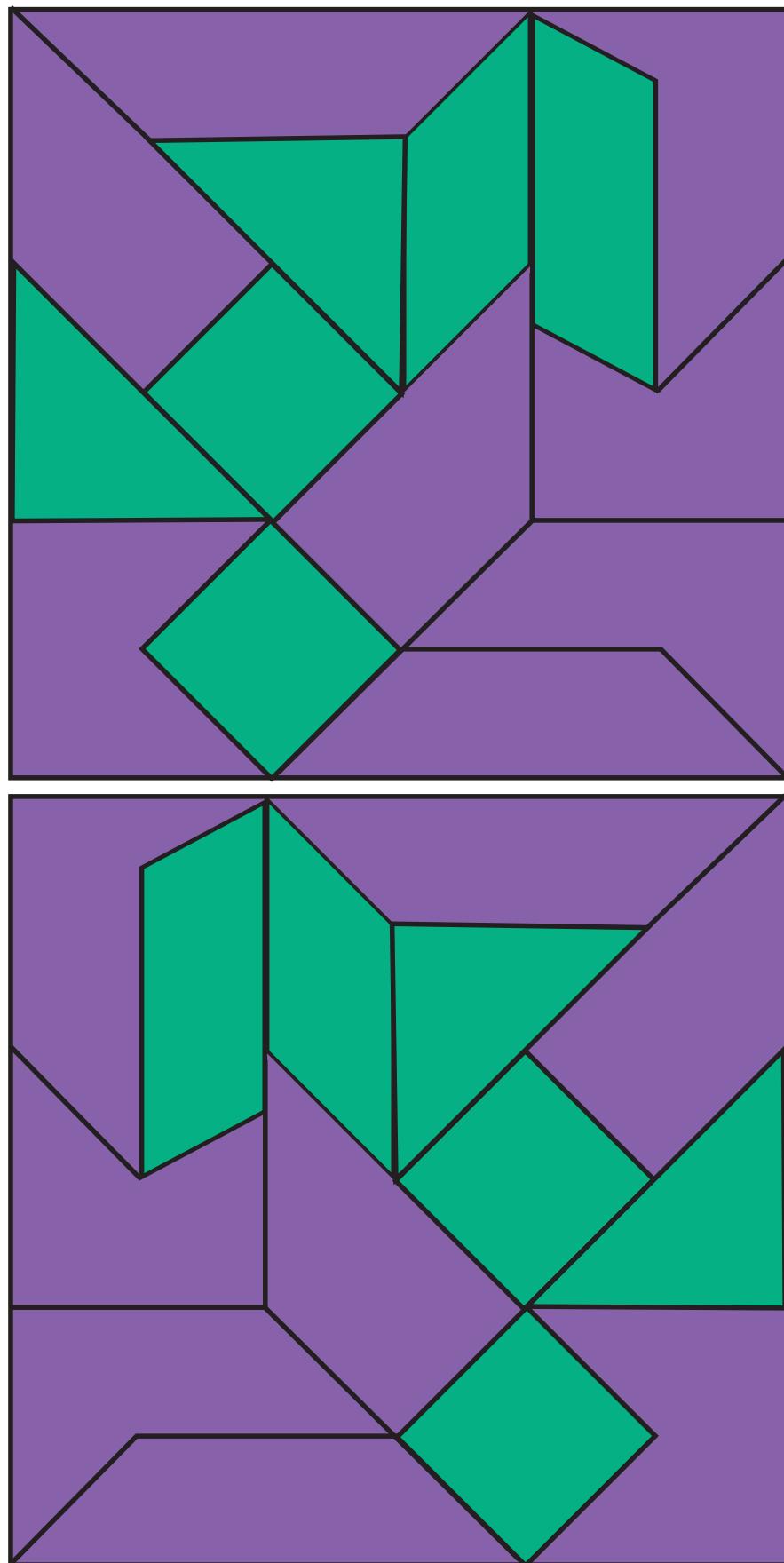
I _c	
IO _c	
R s	
RIO _s	
RIOOs	

Tshigeriwa q

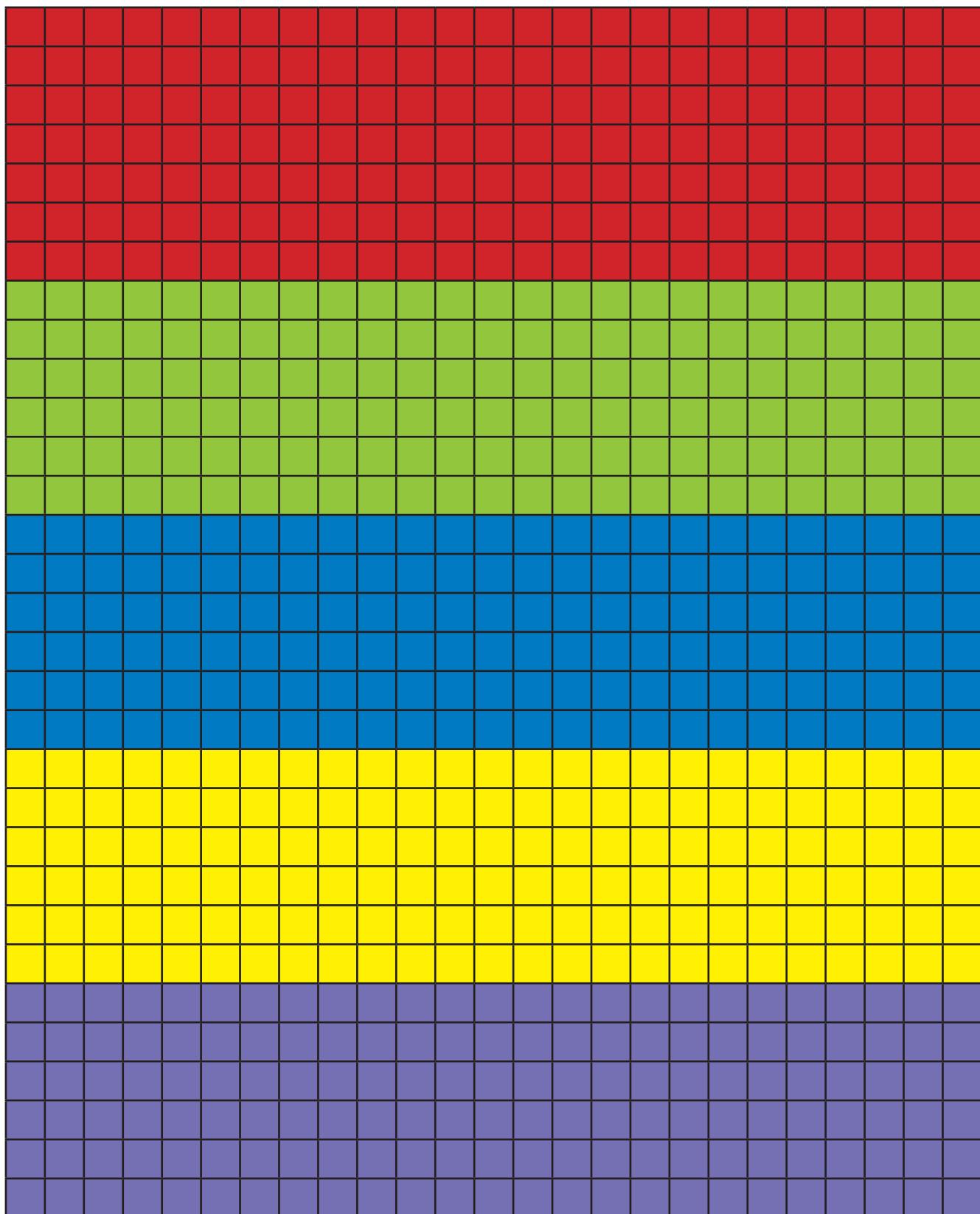
RIOO	RIOO	RIOO	RIOO
RIOO	RIOO	RIOO	RIOO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO



Tshigeriwa 10



Cut-out II



Cut-out I2

