



Vho Angie Motshekga
Minista wa Muhasho wa
Pfunzo ya Muteo



Vho Enver Surty
Muthusaminista wa
Pfunzo ya Muteo

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

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

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

Ri na fulufhelo la uri bugu idzi dzi do thusa vhadededzi (vhagudisi) mushumoni wavho wa u funza wa duvha linwe na linwe khathihi na u vha na vhuṭanzi uri vha khunyeledze kharikhulamu yotho. Ro ita nga vhuronwane uri ri sumbedze ndila vhadededzi kha nyito nge ra shumisa aikhoni dzi no sumbedza uri mugudi u tea u ita zwifhio.

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

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

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MBALO NGA TSHIVENDA – Gireidi ya 3 Bugu 2

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**MBALO NGA
TSHIVENDA**

Bugu ya 2
Themo dza
3 & 4

Zwi re ngomu



X

Thebulu ya muandiso

$$2 \times 2 = 4$$

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

No	Thoho	Saitari
65	Nomboro 500 u swika kha 600	2
66	Nomboro dza 500 u swika kha 600 hafhu	4
67	Nomboro 600 u swika kha 700	6
68	Mushumo wa mepe	8
69	Nomboro 600 u swika kha 700 hafhu	10
70	Nomboro 650 u swika kha 750	12
71	Nomboro 700 u swika kha 750	14
72	Zwivhumbeo wa 2-D	16
73	Mutanganyo na mutuso u swika kha 800	18
74	Mutanganyo na mutuso hafhu u swika kha 800	20
75	Mutanganyo na mutuso u swika kha 800 hafhu	22
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80	Tshifhinga tsha masiari na tshifhinga tsha vhusiku	32
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84	Muandiso: tharu i swika kha 75	40
85	Muandiso: dzi2, dzi3 na dzi4 u swika kha 75	42
86	Phetheni dza nomboro: tharu u swika kha 800	44
87	Muandiso: dziina u swika kha 75	46
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102b	Kha ri kale hafhu	80

No	Thoho	Saitari
103	Nomboro 900 u swika kha 1 000	82
104	Nomboro dziwe hafhu 900 u swika kha 1 000	84
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	Tshigeriwa 6	
	Tshigeriwa 7	
	Tshigeriwa 8	
	Tshigeriwa 9	
	Tshigeriwa 10	

Gireidi ya

3



Heyi bugu ndi ya:



TSHIVENĐA

Bugu ya

2

Nomboro 500 u swika kha 600



Vhalani ni n̄wale.

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

500



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

- b. N̄walani nomboro dzi no khou t̄ahela kha giridi i re af̄ho n̄tha.
c. N̄walani nomboro dza 10 dzi no tevhela 500.

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

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

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

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

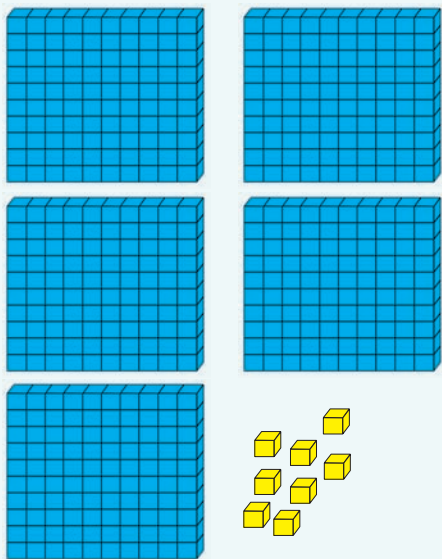
548; _____; _____; _____; _____; _____; _____; _____; _____; 570

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

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



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

540			543				547		549	
							597	598	599	
					597	598	599			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

520	
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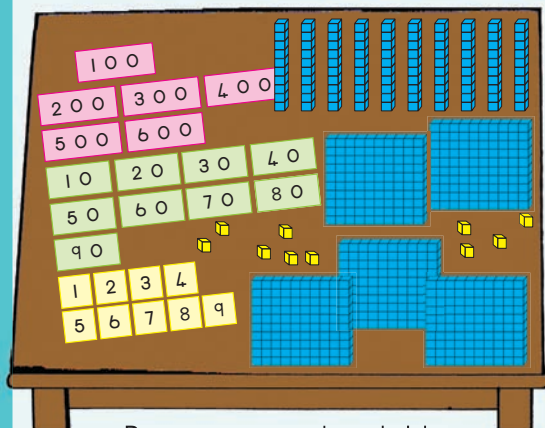


Teacher: _____

Sign: _____

Date: _____

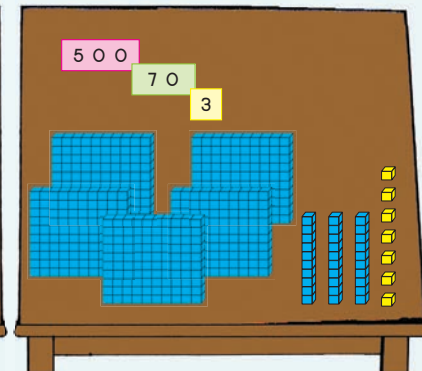
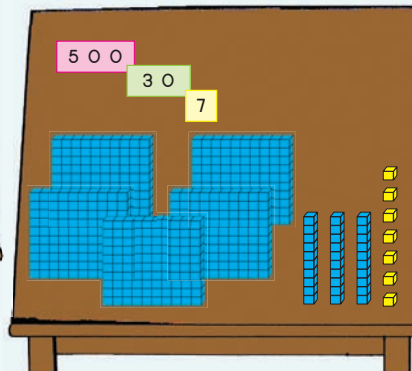
Nomboro dza 500 u swika kha 600 hafhu



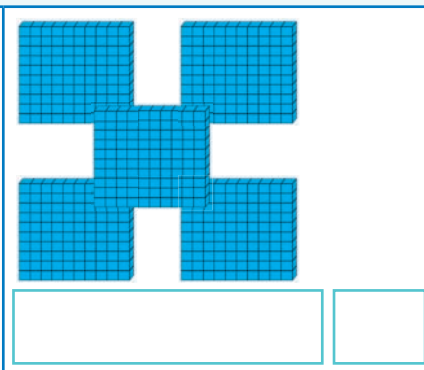
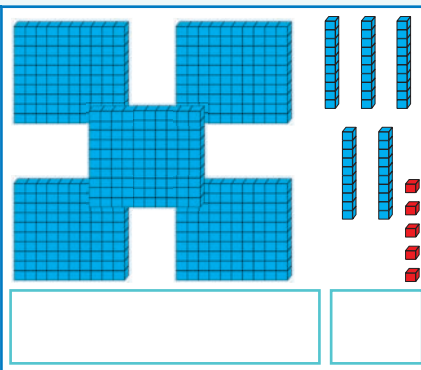
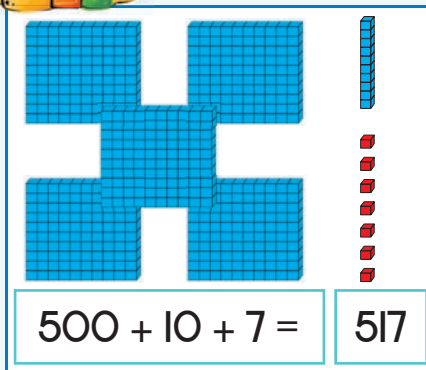
Peter u na garaṭa dzi tevhelaho dza vhuimo ha nomboro na zwibuloko zwa beisi ya fumi.

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

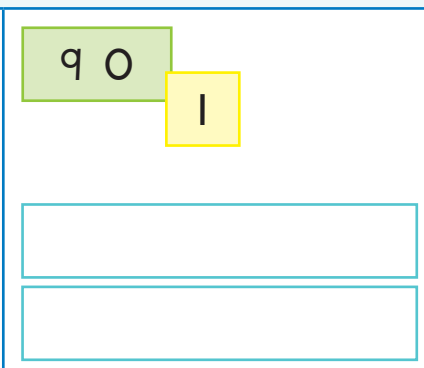
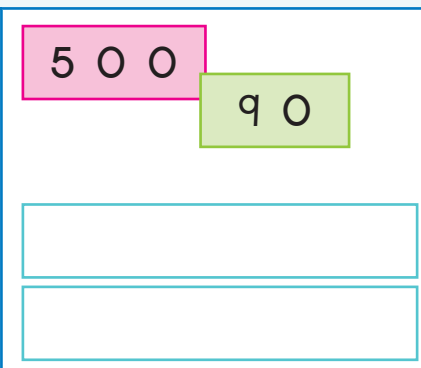
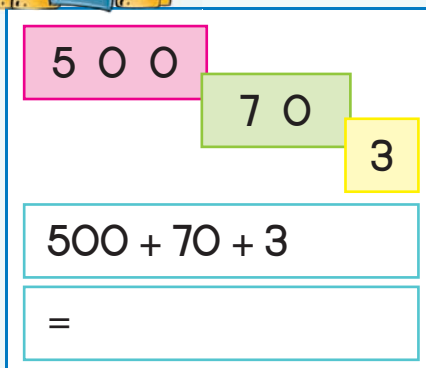
Aakar o sumbedza hezwi. O ita zwifhio zwo khakheaho?



Nwalani f'hungombalo ni tevhedze nga phindulo.



Nwalani f'hungombalo ni tevhedze nga phindulo.





Fhedzisani mutalombalo.

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

Nwalani nomboro dzotlhe dzi re thukhu kha 55b. _____

Nwalani nomboro dzotlhe dzi re khulwane kha 55b. _____



Padukanyani nomboro yanu.

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

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

495	
508	
594	
549	
602	

Tsumbo: 517

5	0	0
	1	0
		7
5	1	7

517 500 + 10 + 7



Nwalani madzina a mbalo.

221	
486	
369	
419	
491	



Teacher: _____
Sign: _____
Date: _____

Nomboro 600 u swika kha 700

Vhalani ni n'wale.

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

600

700

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

- b. N'walani nomboro dzi no khou tshela kha giridi i re afho ntsha.

- c. N'walani nomboro dza 10 dzi no tevhela 600.

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

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

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

- e. N'walani nomboro dzotlhe dzi re kha phetheni ya dzi2 u bva kha 611 u swika kha 633.

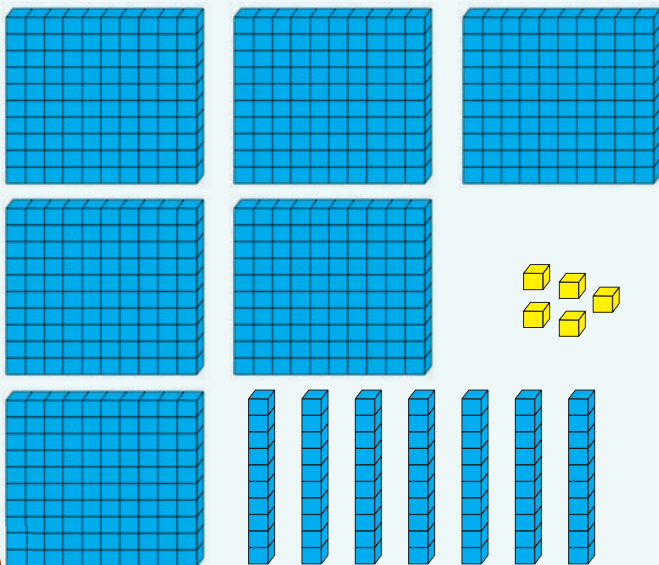
611; _____; _____; _____; _____; _____; _____; _____; _____; _____ 633

- f. N'walani 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.

640			643				647		649	
							687	688	689	
					602	604	606			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

631



Teacher:

Sign:

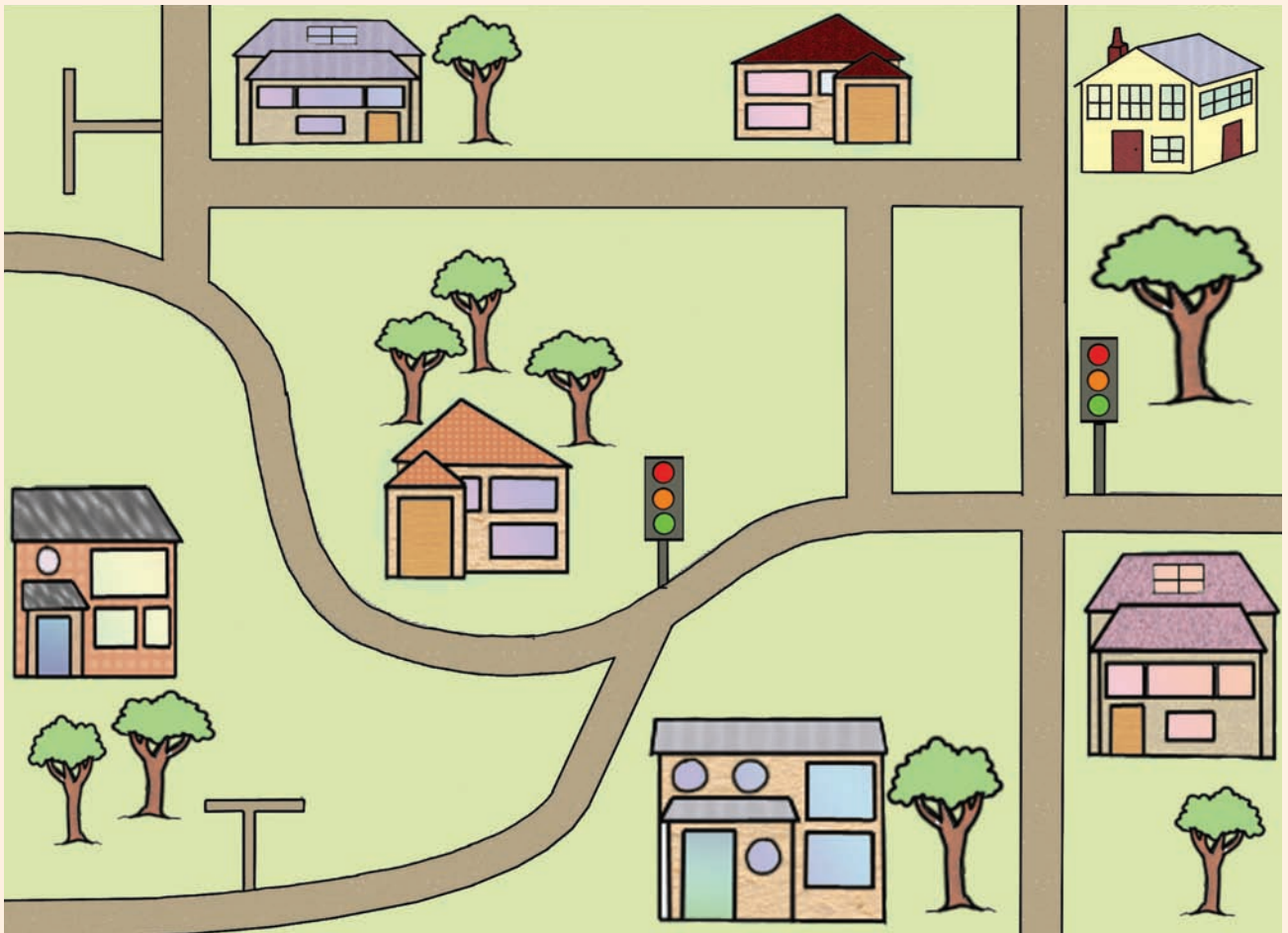
Date:



Mushumo wa mepe

Lavhelesani tshifanyiso.

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



Olani zwi tevhelaho kha mepe:

laiburari, zwikolo, kiliniki, sibadela (vhuongelo), tshititshi tsha mapholisa, mavhengeleni.
Ni nga kha di dzhenisa zwiinwe zwiṭaraṭa.



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

a. kiliniki vha tshi ya tshitiṭtshi 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.

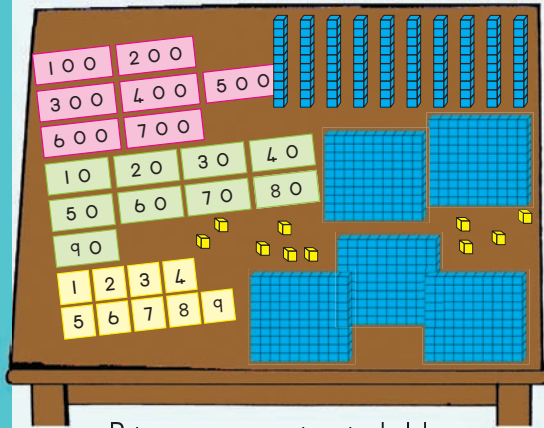
f. sibadela (vhuongeloni) vha tshi ya tshikoloni.



Teacher:
Sign:
Date:

Nomboro 600 u swika kha 700 hafhu

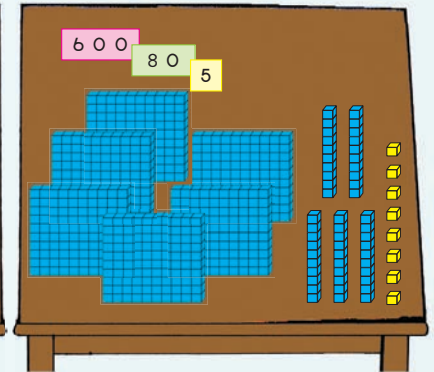
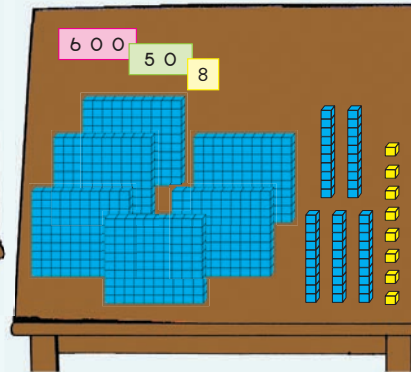
Deithi:



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

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

Aakar o sumbedza hezwi. O ita zwifhio zwo khakheaho?



Nwalani fhungombalo ni tevhedze nga phindulo.

$600 + 30 + 7 = 637$		



Nwalani fhungombalo ni tevhedze nga phindulo.

$600 + 90 + 8$		



Fhedzisani mutalombalo.

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

Nwalani nomboro dzotlhe dzi re thukhu kha 675. _____

Nwalani nomboro dzotlhe dzi re khulwane kha 675. _____



Dzhenisani $< \text{kana} > =$

a. 670 _____ 607

b. 688 _____ 699

c. $600 + 50 + 5$ _____ 655



Padukanyani nomboro yanu.

a. Fhatani nomboro inwe na inwe nga magaraṭa anu.

b. Nwalani velu ya didzhiti inwe na inwe. Zwino itani hezwi: Padukanyani nomboro yanu.

686	
690	
699	
673	
665	

Tsumbo: 632

6 0 0

3 0

2

6 3 2

632

$600 + 30 + 2$



Nwalani madzina a mbalo.

672	
693	
607	
697	
660	



Teacher: _____
Sign: _____
Date: _____

Nomboro 650 u swika kha 750



Vhalani ni n̄wale.

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



650

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

- b. N̄walani nomboro dzi no khoulahela kha giridi i re afho n̄t̄ha.
c. N̄walani nomboro dza 10 dzi no tevhela 650.

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

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

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

- e. N̄walani nomboro dzot̄he dzi re kha phetheni ya dzi3 u bva kha 719 u swika kha 749.

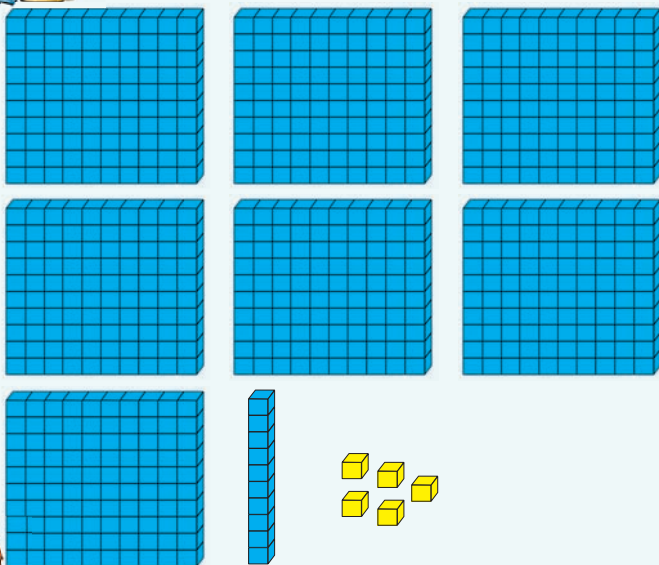
719; _____; _____; _____; _____; _____; _____; _____; _____; 749

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

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



Ni kona u vhalu zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

700			703				707		709	
							746	747	748	
					706	711	716			



Fhedzisani thebulu.

Nwalani u bva kha thukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha thukhusa

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



Nwalani zwi tevhelaho nga maipfi.

706	
-----	--



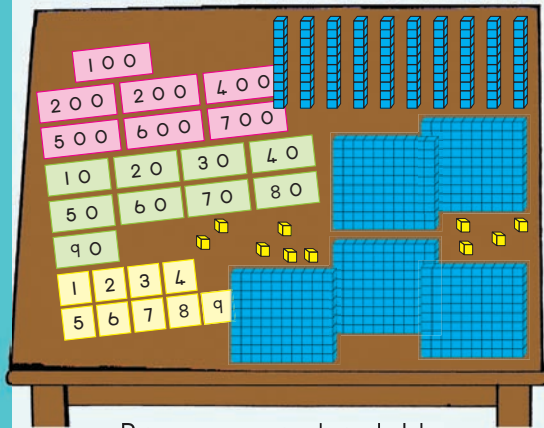
Teacher:

Sign:

Date:

Nomboro 700 u swika kha 750

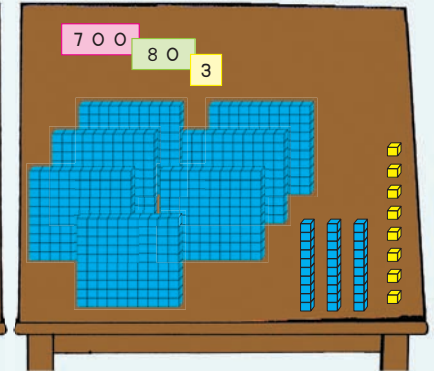
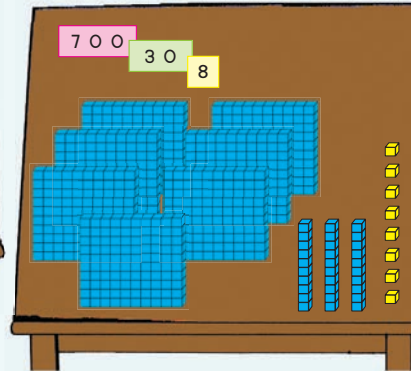
Themo ya 3



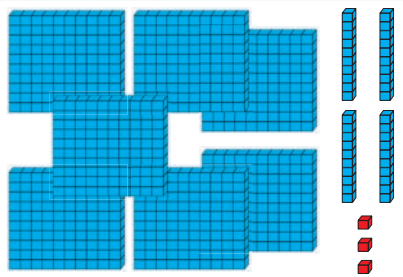
Peter u na garaṭa dzi tevhelaho dza vhuimo ha nomboro na zwibuloko zwa beisi ya fumi.

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

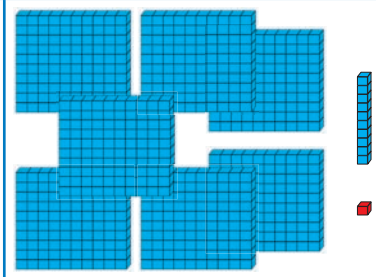
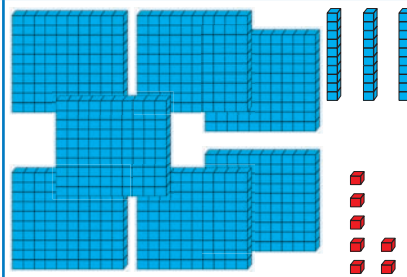
Ntakadzeni o sumbedza hezwi. O ita zwifhio zwo khakheaho?



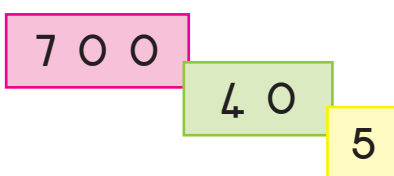
Nwalani fhungombalo ni tevhedze nga phindulo.



$$700 + 40 + 3 = 743$$

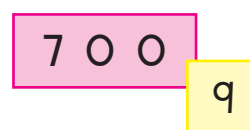
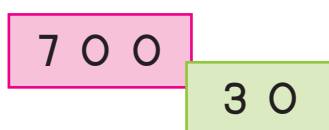


Nwalani fhungombalo ni tevhedze nga phindulo.



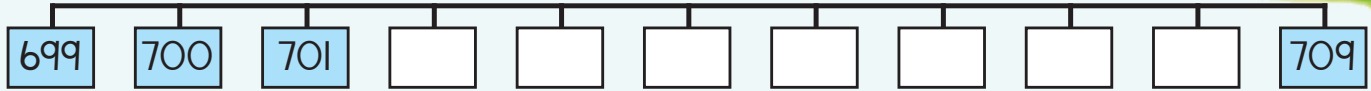
$$700 + 40 + 5$$

=





Fhedzisani mutalombalo.



Mpheni nomboro dzotthe dzi re tshukhu kha 704. _____

Mpheni nomboro dzotthe dzi re khulwane kha 704. _____



Dzhenisani $< \text{kana} > =$

a. 750 _____ 749

b. 732 _____ 723

c. $700 + 40 + 9$ _____ 749



Padukanyani nomboro yanu.

a. Fhatani nomboro inwe na inwe nga magarata anu.

b. Nwalani velu ya didzhiti inwe na inwe. Zwino itani hezwi: Padukanyani nomboro anu.

750	
728	
703	
730	
749	

Tsumbo: 747

7 0 0

4 0

7

7 4 7

747

$700 + 40 + 7$



Nwalani madzina a mbalo.

714	
750	
742	
738	
704	

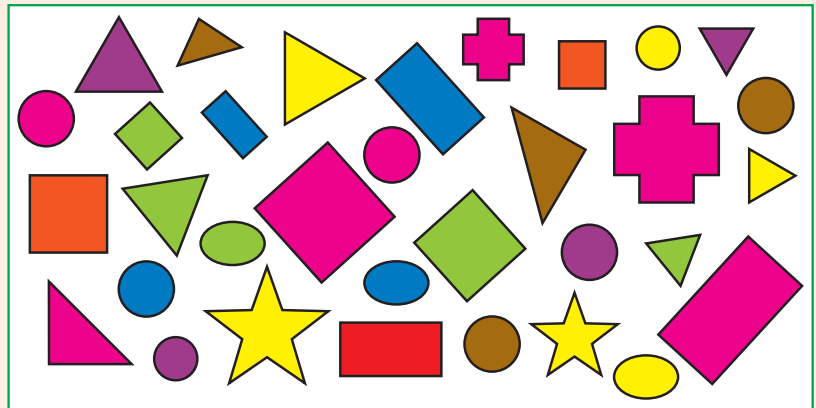


Teacher: _____
Sign: _____
Date: _____

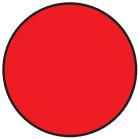
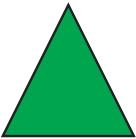


Zwivhumbeo wa 2-D

Bulani uri tshivhumbeo tshi na lurumbutswititi kana lwo kutaho naa.



Bulani uri tshivhumbeo tshi na vhurumbuswititi kana dza zwipulumbu naa.



Ni nga ola zwivhumbeo zwingana zwi re na vhurumbuswititi.



Wanani zwifanyiso.

Wanani zwivhumbeo zwi re na memetswititi ni dzi nambatedze hafha.

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

--	--



Fhedzisani zwi tevhelaho:

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



Fhedzisani thebulu:

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



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

Zwi nambatedzeni hafha:



Teacher:

Sign:

Date:

Mutanganyo na mutuso u swika kha 800



Ndi nga renga mini nga R500?

Ndi tshif hio 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

600

+20

620

+15

+15

+10

Gumani

+10

+25

+5



Vhalani ni tshi humela murahu u bva kha 800.

Nwalani "tshintshi" hothe.

Thomani

800

-

790

-

786

-

776

-

715

-

740

-

760

-

766

-

705

-

690

-

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

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

a.

b.





Deithi:

Mutanganyo na mutuso hafu u swika kha 800

Miṭa ya nomboro.

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

Tsumbo ndi ya 4, 8 na 12.

$$\begin{array}{ll} 4 + 8 = 12 & 8 + 4 = 12 \\ 12 - 8 = 4 & 12 - 4 = 8 \end{array}$$



Wanani miṭa ya nomboro.

Nwalani mafhungombalo a 4 a tshigwada tshiṛwe na tshiṛwe tsha nomboro.

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



Sedzani vhushaka.

Kha nyito iyi ri ḍo topola phatheni.

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



Lwendo lulapfu.

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

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

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



Tandululani zwi tevhelaho kha bammbiri linwe:

Shumisani inwe na inwe ya ngila dzi re afho ntha.

$$746 - 328$$

$$800 - 499$$



Teacher: _____
Sign: _____
Date: _____

Mutanganyo na mutuso u swika kha 800 hafhu



Fhatani mita ya nomboro ya inwi mune.
Nyito ya u didudedza.

5 12 17



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

Tsumbo: Vhumbani 17

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



8 9 17

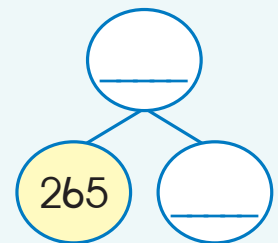
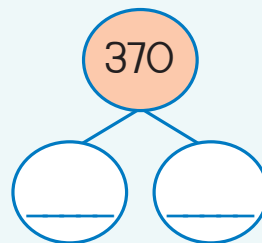
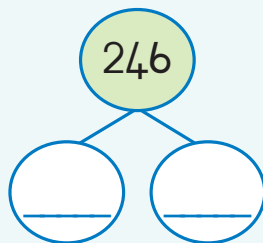
Tolani!
Vhambedzani!
Lulamisani!

Ni tshi itela nomboro inwe na inwe i re afho fhasi, nangani dza 2 ni fhatxe mutxa.
Nwalani mafhungombalo mana (mavhili a + na mavhili a -) kha mutxa 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 tusa.

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

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

Zwino edzisani hezwi:

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



Sedzesani ndila (ngona).

Munwe na munwe wa vhana vha 256 u wana mpho ya Khirisimusi. Hafu yavho vha fhiwa mipopi ngeno inwe hafu i tshi fhiwa zwimodoro. Ndi vhangana vhe vha fhiwa zwimodoro.

Ndila 1	Ndila 2
$256 = 200 + 50 + 6$ → Hafu ya 200 ndi 100 → Hafu ya 50 ndi 25 → Hafu ya 6 ndi 3 $100 + 25 + 3 = 128$ → Hafu ya 256 ndi 128 Zwi amba uri vha 128 vha fhiwa zwimodoro.	→ Hafu ya 250 = 125 → Hafu ya 6 ndi 3 $125 + 3 = 128$ → Hafu ya 256 ndi 128, Zwi amba uri vha 128 vha fhiwa zwimodoro.



Tandululani zwi tevhelaho kha bammbiri linwe:

Shumisani inwe na inwe ya ndila dzi re afho ntha.

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

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



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



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. T̃usani fumi kha nomboro ye na ñewa. 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 musu ni tshi t̃anganya kana u t̃usa fumi kha nomboro dzi re afho ñha?



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo ya nomboro.

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

b. T̃haramudzani thevhokano ya nomboro dzi

tevhelaho:

704; 714; 724; _____; _____; _____

799; 789; 779; _____; _____; _____

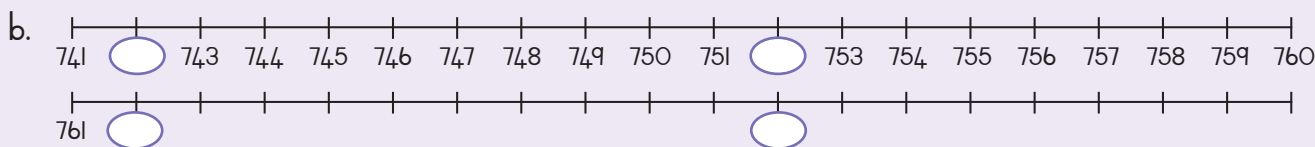
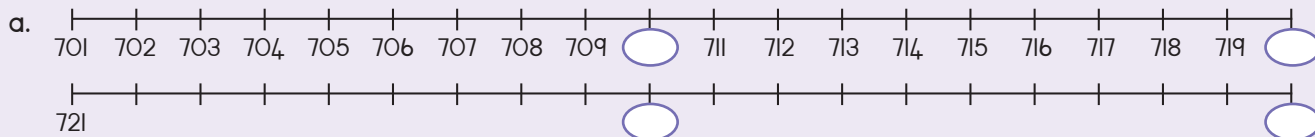
782; 772; 762; _____; _____; _____

715; 725; 735; _____; _____; _____

737; 747; 757; _____; _____; _____



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



Ndi na nomboro ya didzhiti dza 3.

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

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



Teacher: _____
Sign: _____
Date: _____

U sendedza tsini zwa vha mahumi

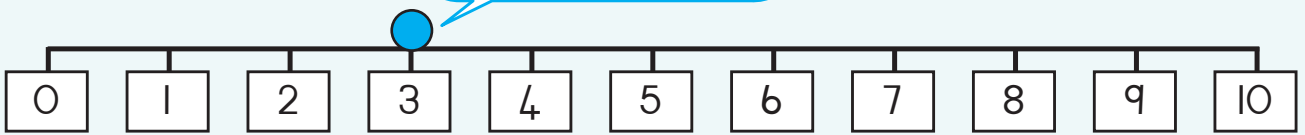
Nomboro dzotlhe u thoma kha 4 u ya murahu dzi go sendedzwa tsini dza vha 0.

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

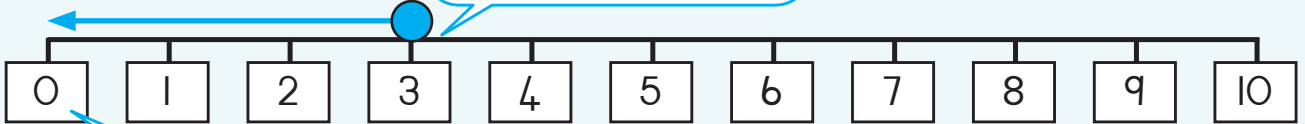


Kha ri ambe

Lavhelesani 3 kha mutalombalo.



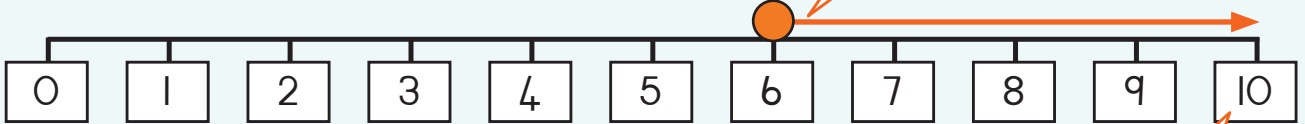
3 i go vha mini musi yo sendedzwa tsini?



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

Itani zwi no fana (zwenezwo) kha:

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



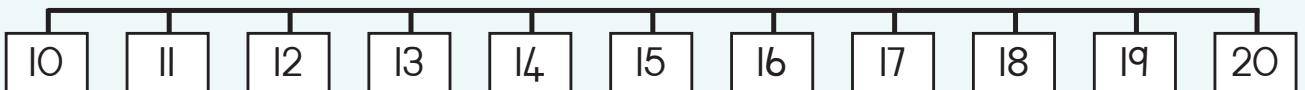
Phindulo i go vha 10.



Sendedzani tsini na 10 ya tsinisa.

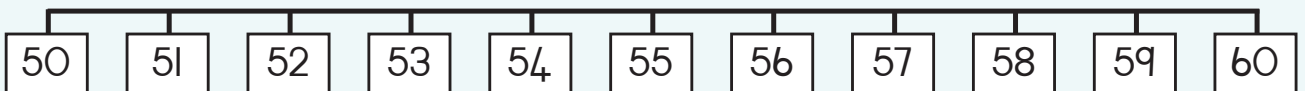
12 yo sendedzwa tsini ndi? _____

19 yo sendedzwa tsini ndi? _____



53 yo sendedzwa tsini ndi? _____

58 yo sendedzwa tsini ndi? _____



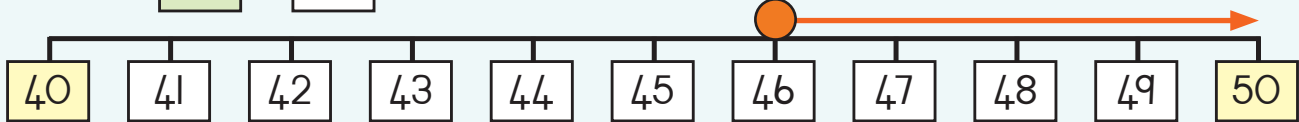


Sendedzani kha 10 ya tsinisa ni tshi shumisa mitalombalo uri i ni tshuse.

a. 46

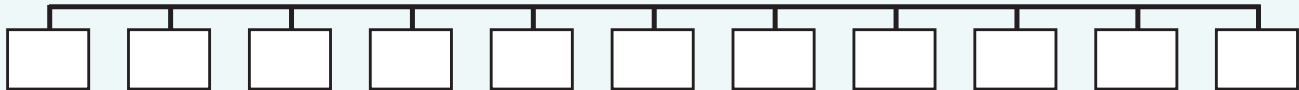
46 50

46 i vhukati ha fumi nngana mbili?



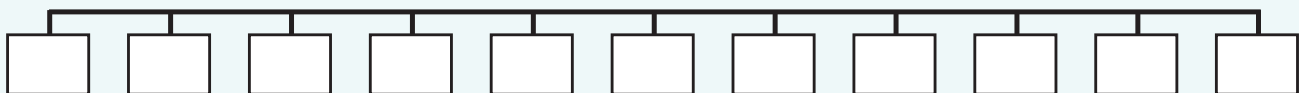
b. 63

63 i vhukati ha fumi nngana mbili?



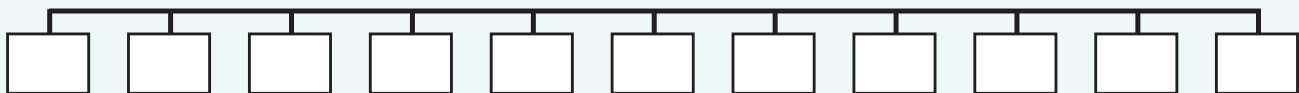
c. 37

37 i vhukati ha fumi nngana mbili?



d. 99

99 i vhukati ha fumi nngana mbili?



Tom u na R48,00.

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

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

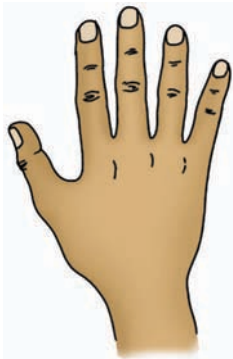


Teacher: _____
Sign: _____
Date: _____

Mutanganyo: thanu u swika kha 75

Ndi zwifhio zwi re
zwanuzwitanu?

Minwe ya tshanda
tshithihi.



Hu na minwe mingana
kha:

zwanda zwa 2?

zwanda zwa 3?

zwanda zwa 4?

zwanda zwa 5?

zwanda zwa 6?

zwanda zwa 7?

zwanda zwa 8?

zwanda zwa 9?

zwanda zwa 10?

Livhanyani mbalo na
mbudziso dzi re kha tsha
monde:

$$9 \times 5 = 45$$

$$7 \times 5 = 35$$

$$2 \times 5 = 10$$

$$4 \times 5 = 20$$

$$3 \times 5 = 15$$

$$5 \times 5 = 25$$

$$10 \times 5 = 50$$

$$6 \times 5 = 30$$

$$8 \times 5 = 40$$



Fhedzisani thebulu.

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



Fhedzisani thebulu.

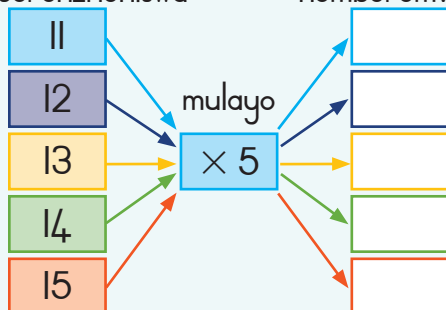
U kovhela	Kovhani
Kovhelani 12 kha vha 5	$12 \div 5 = 2$ ha sala 2
Kovhelani 64 kha vha 5	
Kovhelani 39 kha vha 5	
Kovhelani 73 kha vha 5	



Fhedzisani nyolo dza muelo.

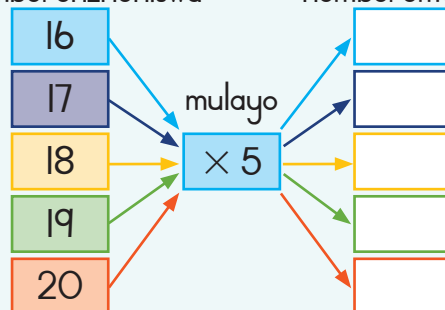
nomboronzheniswa

nomboromviswa



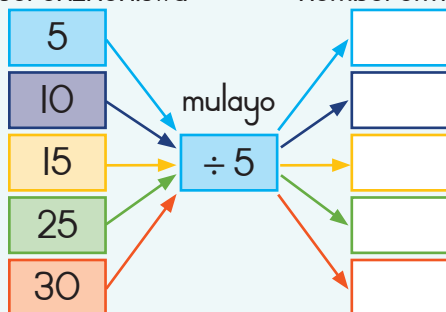
nomboronzheniswa

nomboromviswa



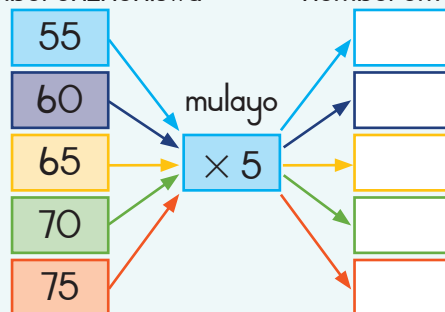
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebuḽu dzi re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
5										

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

Phindulo dzine dza tea u riwalwa kha zwibuloko zwa lutombo no dzi wanisa hani?



Tandululani zwi tevhelaho:

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



Teacher: _____
Sign: _____
Date: _____

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



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

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

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

Ndi nomboro dzifhio dzi no tevhela 730 arali ni tshi khou vhalala 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 t_xuse t_xhanu.

I. Tanganyani t_xhanu kha nomboro ye na n_xewa. Ro dzula ro ni itela ya u thoma.

a. $760 + 5 = 765$

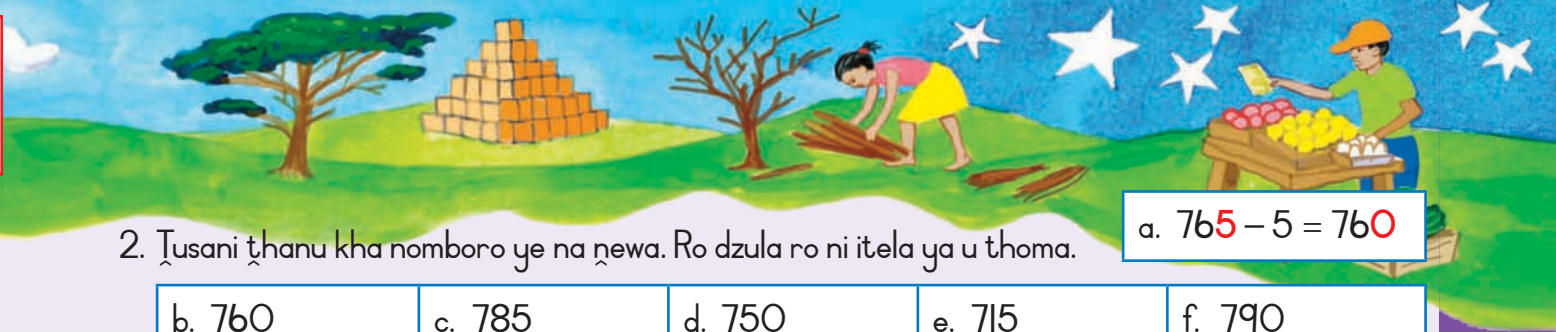
b. 725 _____

c. 780 _____

d. 755 _____

e. 715 _____

f. 790 _____



2. T̃usani t̃hanu kha nomboro ye na ñewa. Ro dzula ro ni itela ya u thoma.

a. $765 - 5 = 760$

b. 760

c. 785

d. 750

e. 715

f. 790

3. Hu bvelela mini musu ni tshi t̃anganya kana u t̃usa t̃hanu kha nomboro dzi re afho ñtha?



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo a nomboro.

a. Ndi zwifhio zwine na vhona kha zwitendeledzi izwi?

b. T̃haramudzani thevhekano ya nomboro dzi tevhelelaho:

703; 708; 713; _____; _____; _____

753; 758; 763; _____; _____; _____

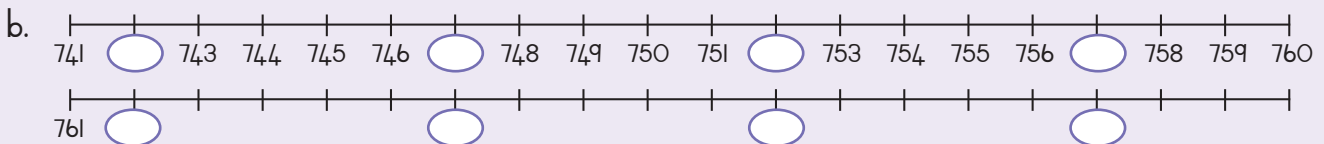
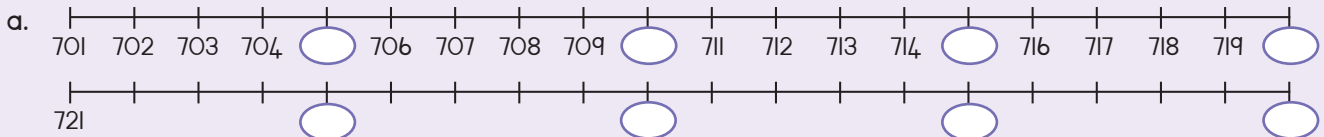
701; 706; 711; _____; _____; _____

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 tevhelela ndi khulwane kha sumbe nga thihi, didzhiti ya u fhedzisela ndi t̃hukhu kha sumbe nga thihi.

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



Teacher: _____
Sign: _____
Date: _____

Tshifhinga tsha masiari na tshifhinga tsha vhusiku



Cape Town

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



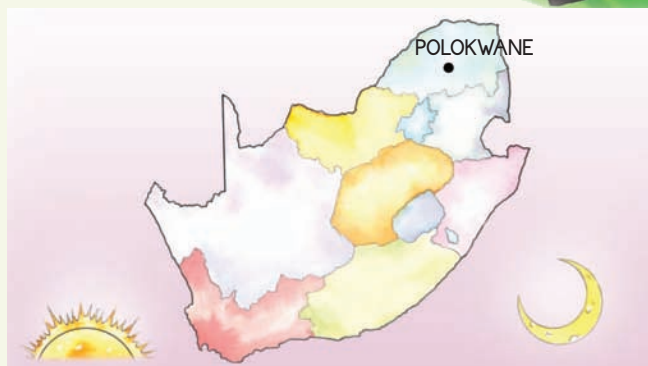
Cape Town	U tsha ha duvha	U kovhela ha duvha	Vhulapfu ha duvha	Vhulapfu ha vhusiku
Thafamuhwe 23	6:53 am	6:53 pm		
Fulwi 21	7:51 am	5:44 pm		
Khubvumedzi 19	6:41 am	6:41 pm		
Nyendavhusiku 22	5:32 am	7:58 pm		

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



Polokwane

Thebulo 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 thebulo iyi ni kone u dadza thebulo nga zwithu zwo teaho musu 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 riwedzi 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 lilapfusa na duvha lipufhisa. _____
- Wanani **vhulapfu** ha **masiari** na **vhusiku** zwa deithi iwe na iwe afho kha thebulo. _____



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

Zwi riwaleni kha vhege nthihi. Ma duvha a khou lapfa kana a khou pfufhisa.



Muandiso: mbili u swika kha 75

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



Fhedzisani thebulu.

Ndi zwienda zwingana zwi
no ita

Phere ya 1 ya zwienda?

Phere dza 2 dza zwienda?

Phere dza 3 dza zwienda?

Phere dza 4 dza zwienda?

Phere dza 5 dza zwienda?

Phere dza 6 dza zwienda?

Phere dza 7 dza zwienda?

Phere dza 8 dza zwienda?

Phere dza 9 dza zwienda?

Phere dza 10 dza zwienda?

Ndi zwienda zwingana zwi
no ita

$$1 \times 2 = 2$$

$$9 \times 2 = 18$$

$$7 \times 2 = 14$$

$$2 \times 2 = 4$$

$$4 \times 2 = 8$$

$$3 \times 2 = 6$$

$$5 \times 2 = 10$$

$$10 \times 2 = 20$$

$$6 \times 2 = 12$$

$$8 \times 2 = 16$$

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



Fhedzisani thebulu.

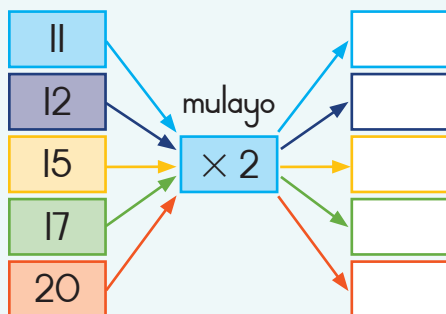
U kovhela	Kovhani
Kovhani zwa 21 kha vha 2	$21 \div 2 = 10$ ha sala 1
Kovhani zwa 33 kha vha 2	
Kovhani zwa 67 kha vha 2	
Kovhani zwa 75 kha vha 2	



Fhedzisani nyolo dza muelo.

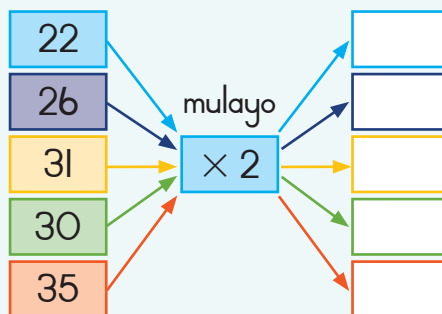
nomboronzheniswa

nomboromviswa



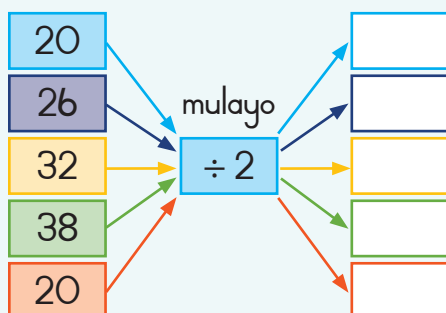
nomboronzheniswa

nomboromviswa



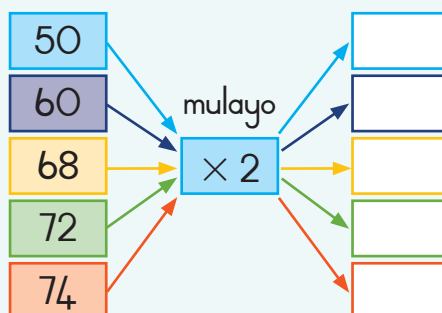
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebulu dza re afho fhasi:

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

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



Thasululani zwi tevhelaho:

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



Teacher: _____
Sign: _____
Date: _____

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



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 musu no no vhalala 700 nga mbili?

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

Ndi mini tshi no rangela 750 musu 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 mitevhhe ya nomboro.

720; 722; 724; _____; _____; _____

800; 798; 796; _____; _____; _____



Tanganyani kana ni t_xuse mbili.

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

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

b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____



2. T̃usani mbili kha nomboro ye na ñewa. Ro dzula ro ni itela ya u thoma.

a. $76\textcolor{red}{4} - 2 = 76\textcolor{red}{2}$

b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____

3. Hu bvelela mini musu ni tshi t̃anganya kana u t̃usa mbili kha nomboro dzi re af'ho nt̃ha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledzi izwi? _____

b. T̃haramudzani mitevhe i tevhelaho ya nomboro:

799; 797; 795; _____; _____; _____

783; 785; 787; _____; _____; _____

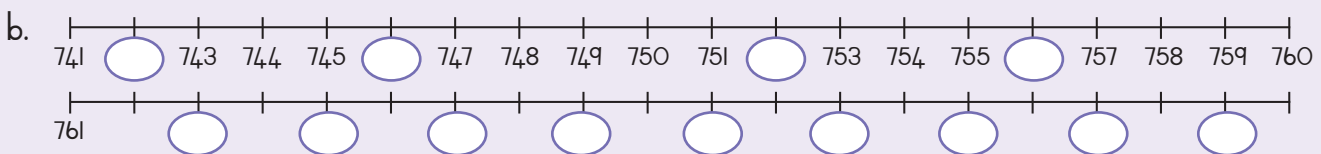
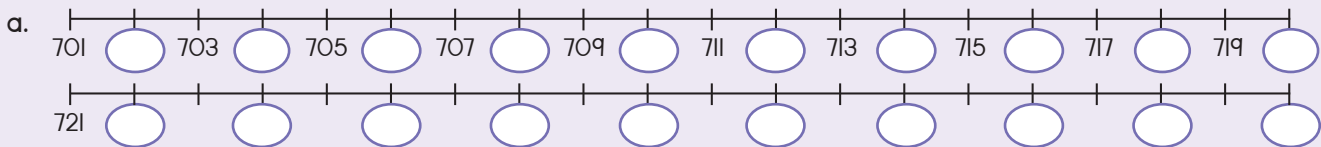
701; 703; 705; _____; _____; _____

779; 781; 783; _____; _____; _____

725; 727; 729; _____; _____; _____



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



Ndi na nomboro ya didzhiti dza 3.

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

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



Teacher: _____
Sign: _____
Date: _____

Muandiso:

dzi2 na dzi5 u swika kha 75



Ni nga kona u f'hindula zwi tevhelaho nga luvhilo 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 ngila:

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

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

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



Andisani zwi tevhelaho:

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



Thasululani zwi tevhelaho:

Ndo renga 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

Ndi zwifhio zwi no
tshimbila nga
zwiraruzwiraru?
Mavhili a thiraisikili



Hu na mavhili mangana
kha

thiraisikili ya 1?

thiraisikili dza 2?

thiraisikili dza 3?

thiraisikili dza 4?

thiraisikili dza 5?

thiraisikili dza 6?

thiraisikili dza 7?

thiraisikili dza 8?

thiraisikili dza 9?

thiraisikili dza 10?

Livhangani tshanganyelo na
mbudziso i re kha tsha monde:

$$9 \times 3 = 27$$

$$7 \times 3 = 21$$

$$2 \times 3 = 6$$

$$4 \times 3 = 12$$

$$3 \times 3 = 9$$

$$5 \times 3 = 15$$

$$1 \times 3 = 3$$

$$10 \times 3 = 30$$

$$6 \times 3 = 18$$

$$8 \times 3 = 24$$



Fhedzisani thebulu.

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



Fhedzisani thebulu.

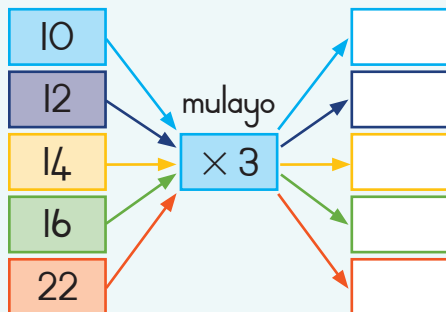
U kovhela	Kovhani
Kovhani zwa 37 kha vha 3	$37 \div 3 = 12$ ha sala 1
Kovhani zwa 74 kha vha 3	
Kovhani zwa 49 kha vha 3	
Kovhani zwa 68 kha vha 3	



Fhedzisani nyolo dza muelo.

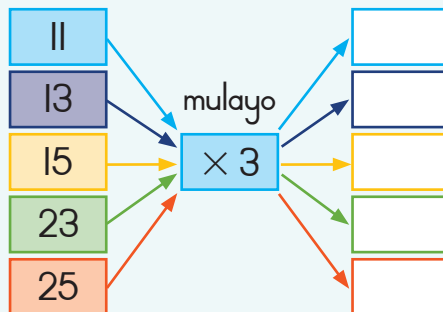
nomboronzheniswa

nomboromviswa



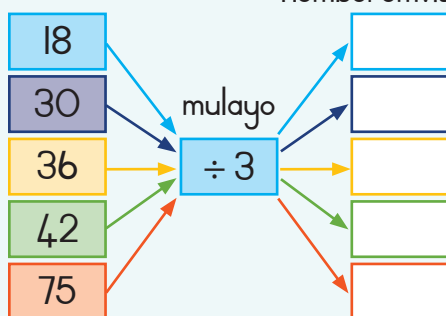
nomboronzheniswa

nomboromviswa



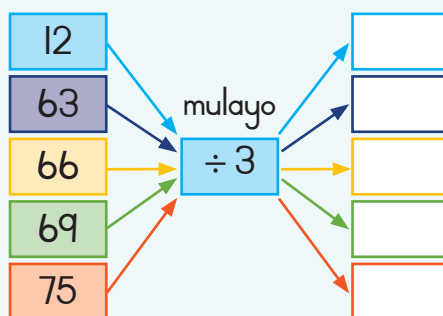
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebulu dzi re afho fhasi:

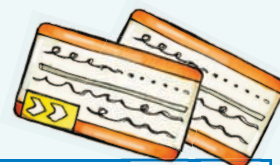
×	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4	3	6													

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

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



Thasululani zwi tevhelaho:



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

Teacher: _____
Sign: _____
Date: _____

Muandiso:

dzi2, dzi3 na dzi4 u swika kha 75



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

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



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	Kuvhekanyele	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	Kuvhekanyele	Mbuno

$6 \times 4 = 24$

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



Kovhani ni linge phindulo yau.

$$63 \div 3$$

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

$$21 \times 3$$

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

a. $48 \div 5$

b. $64 \div 5$



Thasululani zwi tevhelaho:

N $\grave{e}$ ndi na khonani dzanga ri na R63 ro t $\grave{x}$ anganela.
 Ri khou t $\acute{o}$ dou i kovhekana ri vhararu.
 Munwe no munwe u $\acute{d}$ o wana vhugai?



Teacher: _____
 Sign: _____
 Date: _____

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 tshanu u bva kha 799 u swika kha 703.

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

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



Fhedzisani mutevhe wa nomboro.

703; 706; 709; _____; _____; _____

799; 796; 793; _____; _____; _____



Tanganyani kana ni tuse raru.

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

a. $766 + 3 = 769$

b. 766 _____

c. 783 _____

d. 756 _____

e. 713 _____

f. 790 _____



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

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

b. 763 _____

c. 789 _____

d. 756 _____

e. 713 _____

f. 799 _____

3. Hu bvelela mini musi ni tshi t̃anganya kana u t̃usa raru kha nomboro dzi re af̃ho n̄ha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona zwifhio kha zwitendedzi izwi? _____

b. T̃haramudzani mitevh̄e i tevhelaho ya nomboro:

704; 707; 710; _____; _____; _____

773; 776; 779; _____; _____; _____

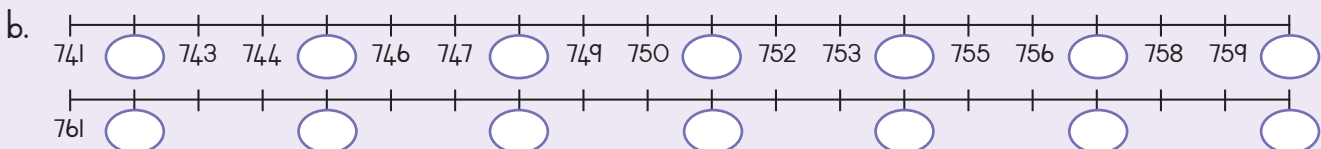
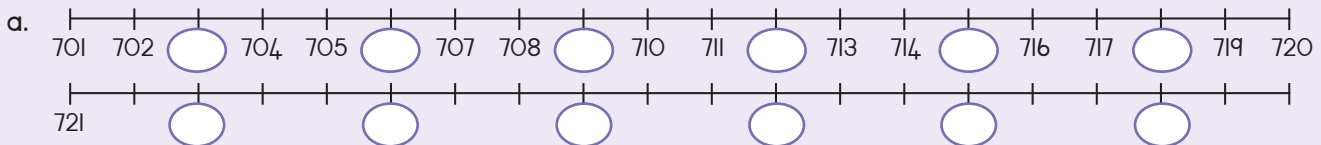
779; 776; 773; _____; _____; _____

782; 785; 788; _____; _____; _____

779; 782; 785; _____; _____; _____



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



Ndi na nomboro ya didzhiti dza 3:

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

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

Ni wana nomboro ifhio? _____



Teacher: _____
Sign: _____
Date: _____

Muandiso: dziina u swika kha 75

Ndi zwifhio zwi no
tshimbila nga zwinazwina?
Mavhili a modoro



Hu na mavhili mangana
kha

Gloi ya 1?

Gloi dza 2?

Gloi dza 3?

Gloi dza 4?

Gloi dza 5?

Gloi dza 6?

Gloi dza 7?

Gloi dza 8?

Gloi dza 9?

Gloi dza 10?

Livhangani tshanganyelo na
mbudziso i re kha tsha monde:

$$9 \times 4 = 36$$

$$7 \times 4 = 28$$

$$2 \times 4 = 8$$

$$4 \times 4 = 16$$

$$3 \times 4 = 12$$

$$5 \times 4 = 20$$

$$1 \times 4 = 4$$

$$10 \times 4 = 40$$

$$6 \times 4 = 24$$

$$8 \times 4 = 32$$



Fhedzisani thebulu:

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



Fhedzisani thebulu:

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



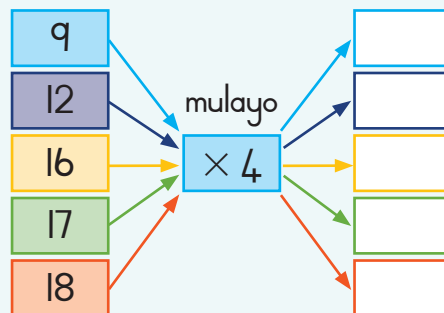
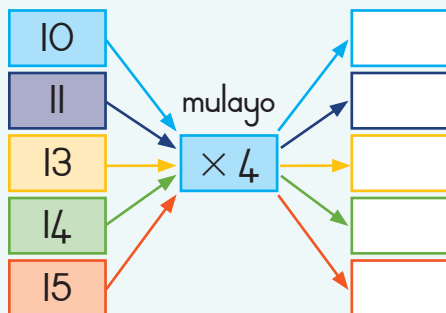
Fhedzisani nyolo ya lubuvhi.

nomboronzheniswa

nomboromviswa

nomboronzheniswa

nomboromviswa

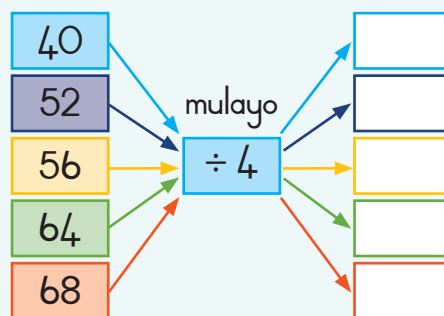
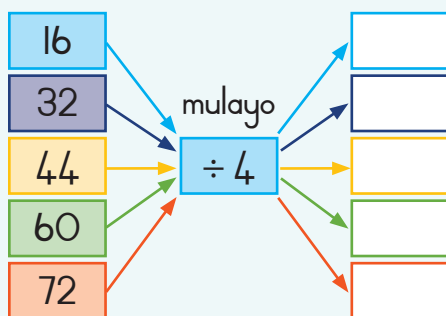


nomboronzheniswa

nomboromviswa

nomboronzheniswa

nomboromviswa



Fhedzisani thebuḽu dzi re afho fhasi:

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

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

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



Thasululani zwi tevhelaho:

Ndi na R75.

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



Teacher: _____
Sign: _____
Date: _____

Phetheni dza

nomboro u swika kha 800



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 vhala nga inaina?

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

Ndi mini tshi no rangela 776 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 mutevhe wa nomboro.

704; 708; 712; _____; _____; _____

724; 728; 732; _____; _____; _____



Tanganyani kana ni tuse ina.

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

a. $764 + 4 = 768$

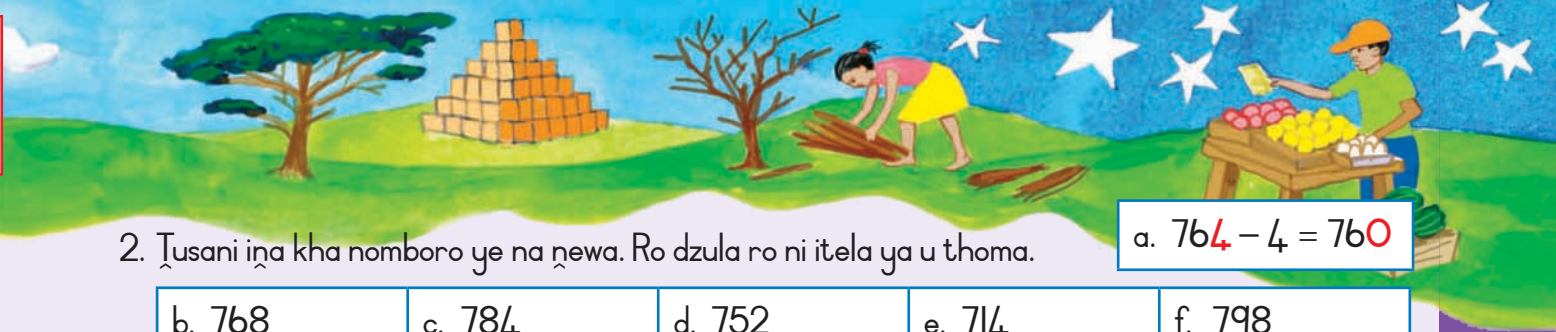
b. 764 _____

c. 788 _____

d. 754 _____

e. 718 _____

f. 794 _____



2. T̃usani iṇa kha nomboro ye na n̄ewa. Ro dzula ro ni itela ya u thoma.

a. $76\textcolor{red}{4} - 4 = 76\textcolor{red}{0}$

b. 768 _____

c. 784 _____

d. 752 _____

e. 714 _____

f. 798 _____

3. Hu bvelela mini musi ni tshi t̃anganya kana u t̃usa iṇa kha nomboro dzi re afho n̄tha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledi izwi? _____

b. T̃haramudzani mitevhe i tevhelaho ya nomboro:

703; 707; 711; _____; _____; _____

773; 777; 781; _____; _____; _____

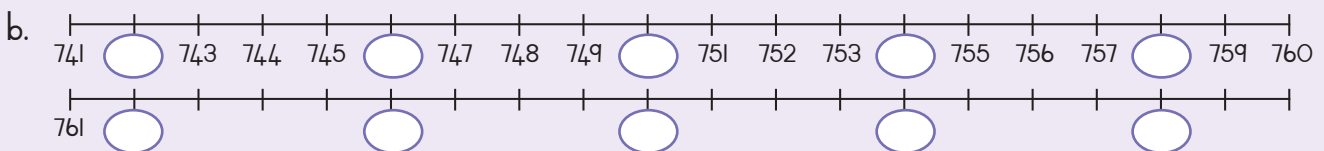
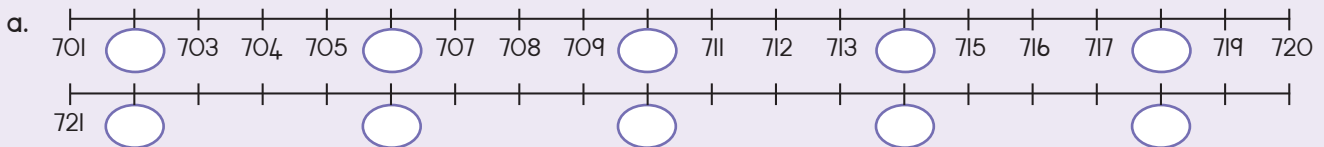
711; 715; 719; _____; _____; _____

783; 779; 775; _____; _____; _____

799; 795; 791; _____; _____; _____



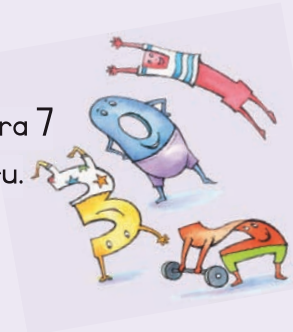
Dzhenisani nomboro yone kha tshitendeledzi tshinwe na tshinwe kha mitalombalo iyi.



Ndi na nomboro ya didzhiti dza 3.

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

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



Teacher: _____
Sign: _____
Date: _____

Muandiso na mukovho: dzi2, dzi3 na dzi5 u swika kha 75

Themo ya 3



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

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



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

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



Ni zwi divha hani uri nomboro i nga kovhea nga:

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



Kovhani ni linge phindulo yaṅu.

$$65 \div 3$$

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

$$21 \times 3 + 2$$

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

a. $49 \div 5$

b. $65 \div 5$



Thasululani zwi tevhelaho:

Ni tea u ya na ita ṭhodisiso.

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





Mbonalo dza zwithu zwa 3-D



Lavhelesani zwifanyiso izwi.

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

Bola	Mabogisi	Silinda	Phiramidi	Khounu



Lavhelesani zwifanyiso ni fhedzise mafhungo na mbudziso.



a. Bola

_____.



b. Ndi nga mini bola i sa swendi?



c. Silinda

_____.

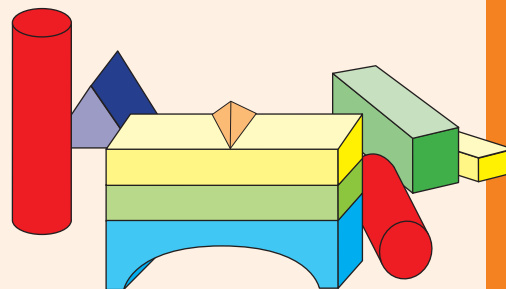
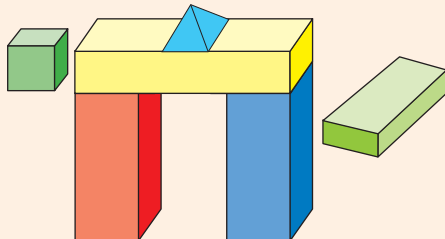
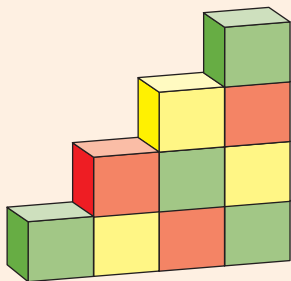


d. Silinda na yone i nga swenda?



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

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





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



--

--

--



Olani zwi tevhelaho:

Bogisi lo dzula (balantsa) kha silinda.

Bola yo dzula (balantsa) kha silinda.

Silinda yo dzula (balantsa) kha bogisi.



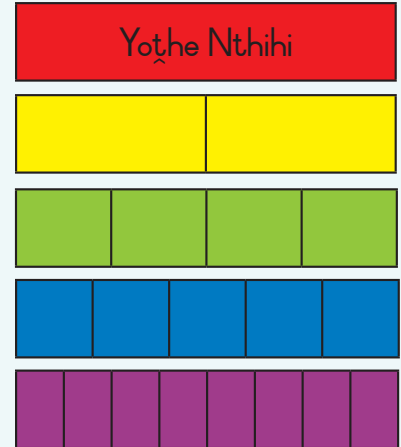
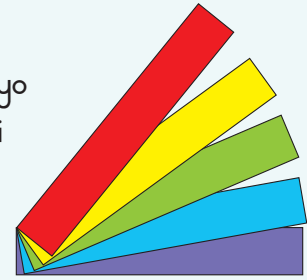
Teacher:
Sign:
Date:

Khithi ya zwibambiri zwa furakhisheni

Matheriala: zwibambiri zwa 5 zwa mivhala yo f'hambananaho, Tshigero, Penisela/Khirayoni



Itani khithi
Tshigeriwa 5



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

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

Zwino edzisani u ita vhubambiri vhuvhili hafu, luthihi lu tshi sumbedza zwararu luwe lu tshi sumbedza zwamalo



Shumisani zwipida zwa khithi ya furakhisheni uri zwi ni thuse kha u f'hindula mbudziso idzi.



Ndi hafu nngana dzi no lingana na yothe nthi?



Ndi zwaingana zwingana zwi no lingana na hafu nthihi?



Furakhisheni kha mutalombalo.

Lubambiri ulu lu sumbedza yothe nthihi.



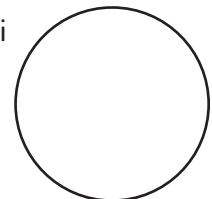
Tshitendeledzi itshi tshi sumbedza yothe nthihi.



Khethekanyani lubambiri lu bve zwararu.

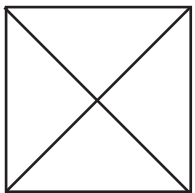
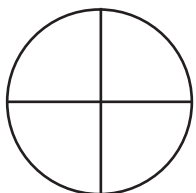
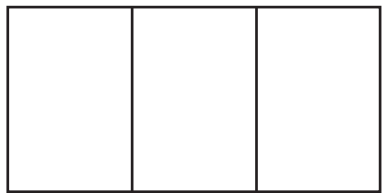
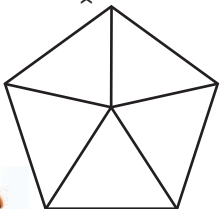
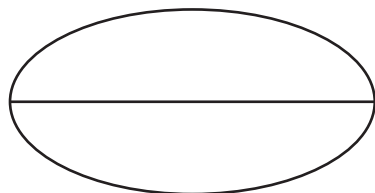
Khalarani tshararu.

Khethekanyani tshitendeledzi tshi bve zwararu.
Khalarani tshararu.





Zwino khalarani zwi tevhelaho:

Hafu nthihi 	Kota tharu 	Zwararu zwivhili 
Zwaṯhanu zwiṇa 	Hafu nthihi 	Kota tharu 



Kota tharu ni tshi shumisa zwikwea.	Hafu nthihi ni tshi shumisa tshitendeledzi.	Zwararu zwivhili ni tshi shumisa thiraiengele.
Zwa ^h hanu zwi ⁿ a ni tshi shumisa tshitendeledzi.	Zwamalo zwi ⁿ a ni tshi shumisa zwikwea.	Zwararu zwivhili ni tshi shumisa rekhithiengele.



- Gerani tshinwe na tshinwe tsha zwitendeledzi zwa **b** kha Tshigeriwa **b**.
 - Gerani zwitanu zwa zwitendeledzi kha mitaladzi zwi bve zwipidapida
 - Lebulani tshipida tshinwe na tshinwe:
 - o Kha lunwe lurumbu niwalani furakhisheni ya awara yothe.
 - o Kha lunwe lurumbu niwalani tshivhalo tsha minete i re kha furakhisheni yeneyo.
- 



Teacher: _____
Sign: _____
Date: _____

Furakhisheni dzinwe hafhu



Nwalani Ee kana Hai.

- Hafu ndi hafu ya Yothe Nthihi
- Hafu ya hafu ndi kota nthihi
- Kota ndi hafu ya hafu
- Hafu nthihi na kota mbili zwi ita yothe
- Hafu na kota zwi ita kota tharu



Kovhani phai.

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



a.

Ndi na ndala!
Ndi khou xoda hafu.

Sipho



Olani mukovhe wa Sipho.

c.

Nne ndi do dzhia
hafu ya ye ya sala.

Andile



Olani mikovhe ya Sipho, Gugu na Mulalo.

b.

Zwo luga! Ndi do
dzhia kota.

Gugu



Olani mikovhe ya Sipho na Gugu.

d.

Nne ndo
salelwa nga phai
nngafhani?

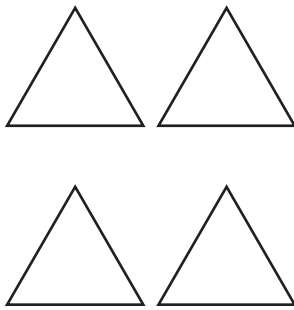
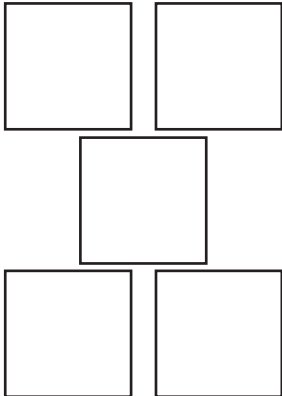
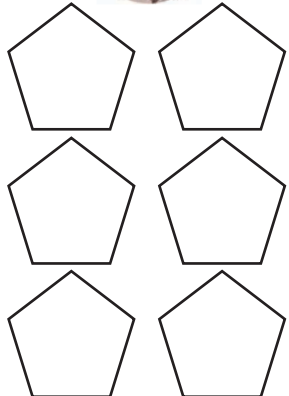
Lisa



Olani minwe mikovhe yothe ya phai.



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

 	 	 	 
--	--	--	--



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

Muñwe na muñwe 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.

Muñwe na muñwe u do wana mangana?

Mbudziso ndi ifhio?

Nomboro ndi dzifhio?

Olani tshifanyiso.



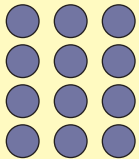
Teacher: _____

Sign: _____

Date: _____

Ukovhekanya zwi tshi livha kha furakhisheni

Zwivhaleli zwa
12 khezwi.



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

Ri ri hei ndi
hafu nthihi..

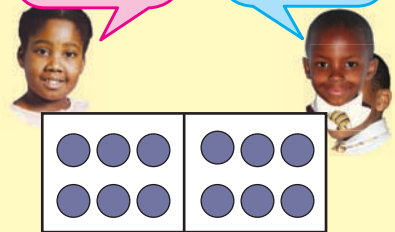
Ri ri hei ndi
hafu nthihi.



Ri kovhekana zwivhaleli zwa fumimbili
vhuvhili hashu.

Ndi na
zwivhalelei zwa
rathi.

Ndi na
zwivhalelei zwa
rathi.



Itani nyolo ya zwi tevhelaho ni f'hindule mbudziso.

Bola dza ṭahe dzi kovhelwa khonani tharu.



- Musidzana muṛwe na muṛwe u ḡo
wana bola nngana? ☐
- Musidzana muṛwe na muṛwe u ḡo
wana furakhisheni ifhio? ☐

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



- Musidzana muṛwe na muṛwe u ḡo
wana bola nngana? ☐
- Mutukana muṛwe na muṛwe u ḡo
wana furakhisheni ifhio? ☐



Maanda u ḡo wana furakhisheni ifhio? Ann u ḡo wana
furakhisheni ifhio?

Ndi pfi Maanda



- Maanda na Ann vha ḡo wana bola nngana?

Ndi pfi Ann.



- Maanda na Ann vha ḡo wana bola nngana?



U kovhekana malegere.

Khonani dzi kovhekana malegere. Muriwe na muriwe wavho u wana $\frac{1}{2}$ (hafu) ya phakhethe.

a. Vha tea u kovhekana phakhethe nngana kha:

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

b. Ndi khonani nngana dzine dza nga kovhekana:

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



Zwirivha zwa mitshino.

Vhomme na vhomakhulu vha runga zwirivha zwa mitshino.

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

Labi li dura R6 mithara muthihi.

a. Ndi zwirivha zwingana zwine vha nga runga nga?

5 m _____ 10 m _____

20 m _____ 25 m _____

b. Ndi labi lingafhani line vha do t_oda kha u runga?

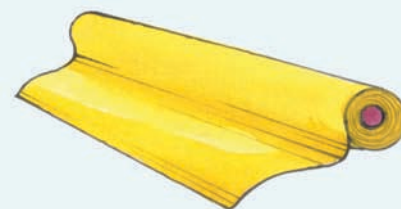
zwirivha zwa 2 _____ zwirivha zwa 3 _____ zwirivha zwa 4 _____

c. Labi la u runga zwi tevhelaho li dura vhugai?

tshirivha tsha l _____ zwirivha zwa 2 _____ zwirivha zwa 3 _____

d. Vha nga runga zwirivha zwingana nga:

R450 _____ R825 _____ R180 _____



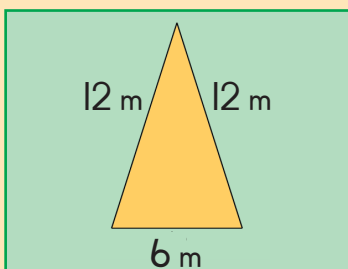
Teacher:

Sign:

Date:

Muelo ri tshi mona

Ipfi 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.

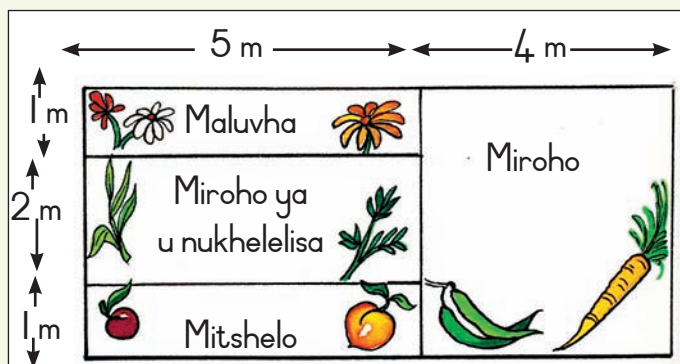
Veronica u ola mudzinge wa ngade ine a todou lima.

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

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

_____ na _____ zwi na mudzinge wa _____ m.

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





Pulanelani ngade yaṅu inwi muṅe.

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



U ela zwitendeledzi.

Shumani ni na phathinara yaṅu.

Matheriala: Zwithu zwa fumi zwa zwitendeledzi zwa saizi dzo fhambananaho zwi no nga phuleithi, ngilasi, theipi ya u nambatedza, tshitibo tsha bogelo, 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 tharamudze lu tshi buḁa na tshitendeledzi. Vhalani uri lu pfukela seli lungana.
4. Itani zwi no fana na zwenezwi kha izwo zwiṅwe zwithu zwa zwitendeledzi.
5. Nwalani zwe na vhona. Tshikhala tsha u mona na tshitendeledzi tshi vhidzwa u pfi ndi muelotenge.



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



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



Urenga tshelede

Tambani mitambo i tevhelaho ni na phathinara yaṅu.

Matheriala:

RIOO

RIO

RI

IOc

Ic



RIOO	RIO	RI	IOc	Ic

Bodo ya tshelede (Tshigeriwa 8),

Bambiri na penisela, daisi mbili, tshelede ya u tambisa

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

Vheani Bodo ya Tshelede ntḥa ha ṭafula.

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



Ṭanganyani u swika kha Rannda dza IOO.

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

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

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

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

5. **Ndatṣiso:** Arali mutambi a fhedza raundu yawe a hangwa u rengisa khoini dzawe dza RI uri a wane noutu ya RIO, ngeno ṽḽa muṅwe mutambi o kona u vhona vhukhakhi uhu, ndatṣiso ndi RI.

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



Tusani u thoma kha RIOO u swika kha RO.

Tambani mutambo u no fana na ula, fhedzi ni thome nga noutu dza RIO, ni tuse thanganyelo ya nomboro dzi re kha daisi. Mutambi a no wana RO ndi ene we a wina.

RIOO	RIO	RI	IOc	Ic



Mutanganyo na mutuso u swika kha RI OOO.

Tanganyani thanganyelo i re kha daisi kha raundu inwe na inwe, ni dzhie noutu dza RIO dza nomboro yeneyo. Muthu wa u thoma u swika kha RI OOO o wina. Kana, thomani nga RI OOO, ni tuse kha raundu inwe na inwe. Mutambi wa u thoma u swika kha RO o wina.



U tanganya u swika kha RI.

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



Tusani masenthe.

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



Teacher: _____
Sign: _____
Date: _____

Kha ri ye mavhengeleni!



Seili ya miṇadzi.

Vhengeleni vha rengisa miṇadzi ya 5 nga mitengo yo fhambananaho.



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

- a. Wanani veḽu ya miṇadzi kha rou iṇwe na iṇwe.
- b. Vho Mme Madzanga vha renga muṇadzi wa l wa lushaka luṇwe na luṇwe.
Vha badela vhugai yo ṭangana yoṭhe? _____
- c. Buti u shumisa R450 yo ṭangana yoṭhe. U renga muṇadzi wa l nga R100.
U renga miṇwe miṇadzi ifhio? Sumbudzani phindulo dza 2 dzine dza nga wanala.

Tolani!
Vhambudzani!
Lulamisani

Phindulo 1	Phindulo 2



Bekharini.

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

Risipi ya khhekhe ya tshipontshi

Zwa khhekhe: Fuḽauru ya 40 g i no kukumuwa nga yotḽhe; Makumba a 3; swigiri aisiḽi ya 50 g

Zwa u shela: Luvhomba lwa 140 ml

a. Wanani uri Musa u tḽoḽa zwithu zwingafḽhani zwa u baka khhekhe dza 6.

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

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

ḽitha ya 1 ya luvhomba i nga ḽoḽziwa kha: khhekhe dza 10;
khhekhe dza 7; khhekhe dza 8.



Tolani! Vhambedzani!
Lulamisani



Mbalotshihagḽu.

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

Teacher: _____
Sign: _____
Date: _____

Zwinwe hafhu nga data



Tshixitshini 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 zwanu 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 tshinwe na tshinwe tshi tavha miri mingana?

Klipspruit	Mthonjeni	Sonskyn	Thuthong	Mosiba

Zwikolo zwi tavha miri mingana yo tangana yotho? _____



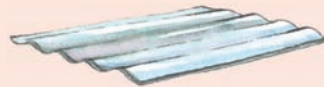
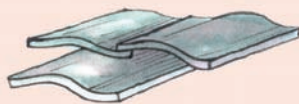
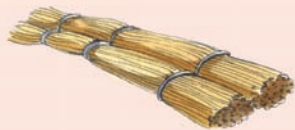
Ndi t̥hanga ifhio?

Vha kilasi ya Gireidi 3 vha ita t̥hodisiso mudanani.

Vha tama u wana tshaka dzo fhambananaho dza t̥hanga dza n̥du dzo fhambananaho.

Vha sumbedza mvelelo dzavho nga girafu ya buloko.

Vha ita thiki (✓) nthihi kha n̥du in̥we na in̥we ine vha i vhona.



Zwileithi	✓	✓	✓	✓	✓	✓					
Hatsi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mabulannga	✓	✓	✓	✓	✓	✓	✓	✓			
Mazenngge	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Ni vhona t̥hanga nngana dza lushaka luiwe na luiwe?

Dzithaili _____ Hatsi _____ Mabulannga _____ Mazenngge _____

Ndi lushaka lufhio lwa t̥hanga lu no funeswa? _____

Vha kona u vhalala t̥hanga nngana dzo t̥angana dzot̥he? _____



Saizi (mielo) ya minadzi.

Vhatukana vha tshikoloni tsha Juma vha ambara gebisi dza tshikolo.

Gebisi idzi dzi na saizi 2, 3 na 4.

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



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

2 _____ 3 _____ 4 _____

Ndi saizi ifhio yo andesaho? _____

Tolani! Vhambedzani!
Lulamisani



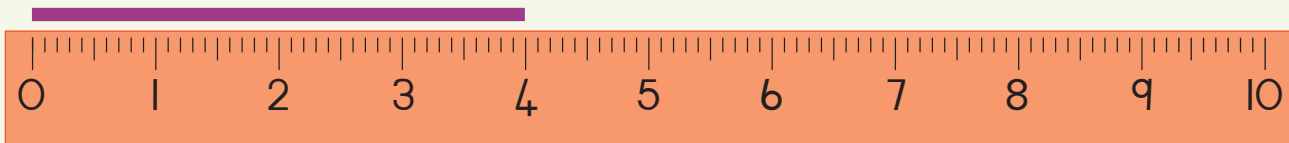
Teacher: _____
Sign: _____
Date: _____

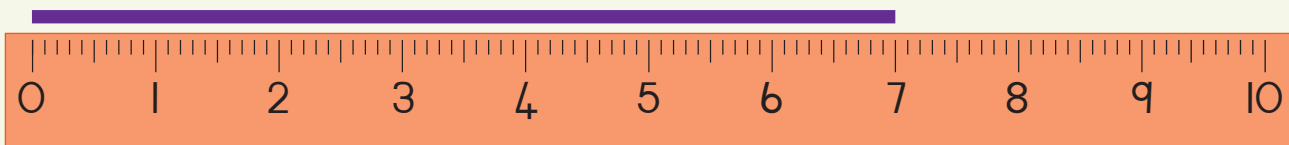
Ushumanga senthimita

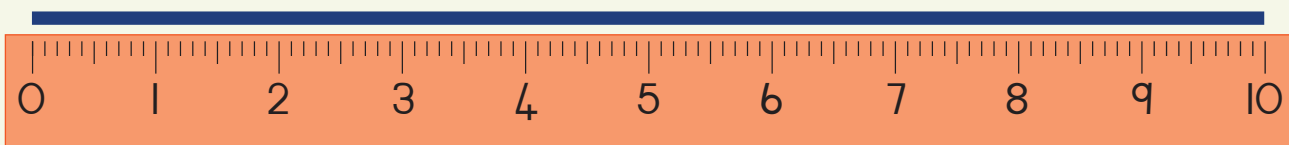
Themo ya 4



Mutaladzi wo khariwaho wo lapfa lungafhani?









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

Mutaladzi	U anganyela	Muelo	Phambano vhukati ha muanganyelo na muelo
			
			
			
			



Shumisani ruḽa kha u ola mitaladzi i tevhelaho.

a. 10 cm

b. 7 cm

c. 15 cm



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

a. Vhulapfu ha bugu. _____

b. Vhunṯha ha munango. _____

c. Vhulapfu ha penisela _____

d. Vhulapfu haṽu. _____

e. Vhulapfu ha munwe waṽu _____

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



Kha ṽwaha no shumisa penisela dza u khalara dzaṽu ṯhanu. Vhulapfu hadzo ho vha hu 15 cm musu 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 ṯaḽa 11 cm, ya phephulu 12 cm, ya tshitopana 9 cm, ya buraunu 14 cm, ntswu 8 cm, ya pinki 13 cm ngeno tshena i 15 cm.

a. Ndi penisela ifhio ye na i shumisesa? _____

b. Ndi penisela ifhio ye na si i shumisese? _____

c. ṽwalani vhulapfu ha penisela dzaṽu u thoma kha pfufhisa u swika kha ndapfusa _____



Nomboro 700 u swika kha 800



Vhalani ni n'wale.

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

700



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

- b. N'walani nomboro dzi no khou tshela kha giridi i re af'ho ntsha.
c. N'walani nomboro dza 10 dzi no tevhela 750.

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

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

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

- e. N'walani nomboro dzotlhe dzi re kha phetheni ya dzi2 u bva kha 751 u swika kha 773.

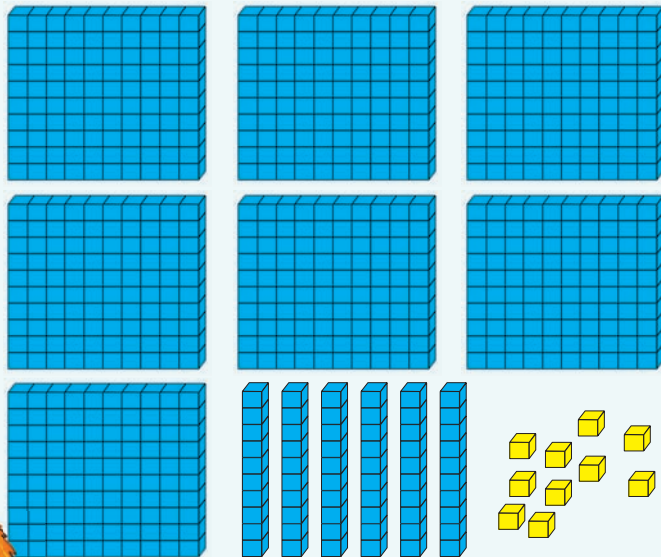
751; _____; _____; _____; _____; _____; _____; _____; _____; 773

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

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



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

750			753				757		759	
							789	786	788	
					753	756	759			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

788	
-----	--



Teacher: _____

Sign: _____

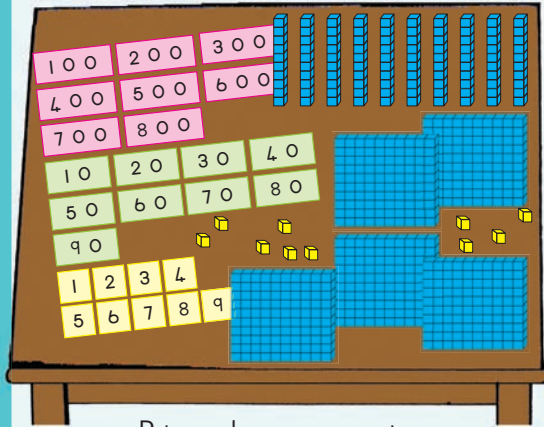
Date: _____

99

Deithi:

Nomboro dziniwe hafhu 700 u swika kha 800

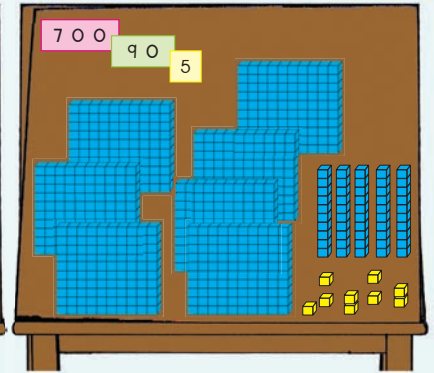
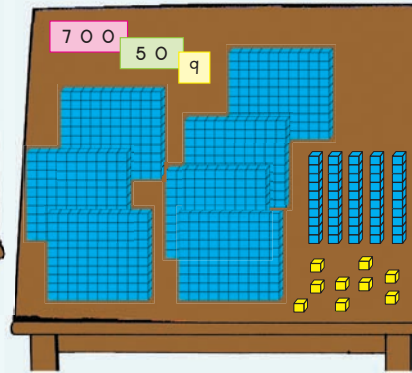
Themo ya 4



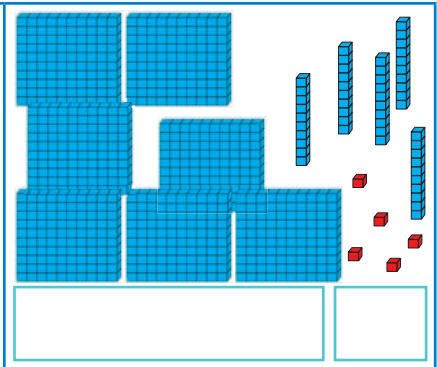
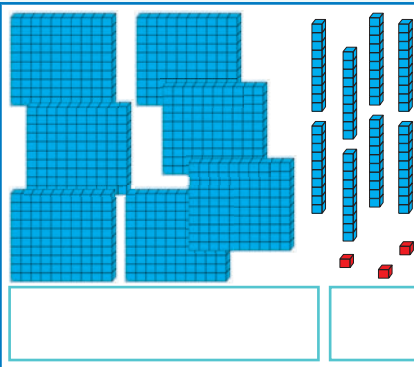
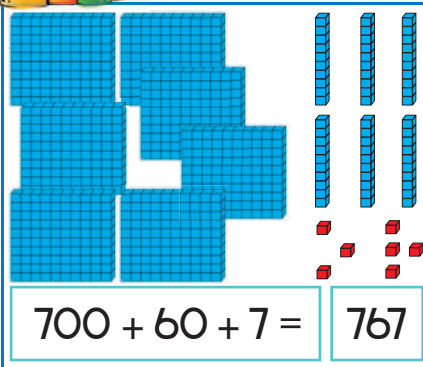
Peter o vha e na magarata a vhuimo ha nomboro na zwibuloko zwa beisi ya fumi zwi tevhelaho.

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

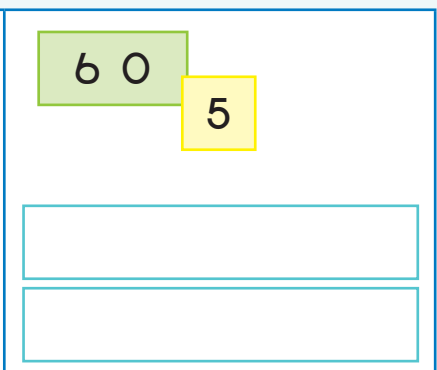
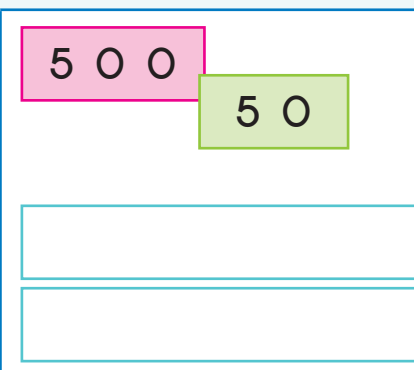
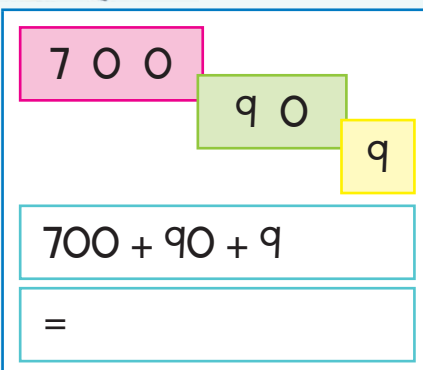
Hezwi ndi zwe Ben a sumbedza zwone. O khakha ngafhi?



Nwalani fhungo la nomboro ni tevhedze nga phindulo.



Nwalani fhungo la nomboro ni tevhedze nga phindulo.





Fhedzisani mutalombalo.

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

Mpheni nomboro dzotlhe dzi re tshukhu kha 795. _____

Mpheni nomboro dzotlhe dzi re khulwane kha 795. _____



Dzhenisani $< \text{kana} > =$

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



Padulani nomboro yanu.

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

790	
689	
699	
755	
690	

Tsumbo: 799

7 0 0

9 0

9

7 9 9

799

$700 + 90 + 9$



Nwalani madzina a nomboro.

668	
757	
799	
742	
691	



Teacher: _____
Sign: _____
Date: _____

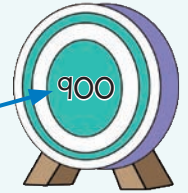
Nomboro 800 u swika kha 900



Vhalani ni n'wale!

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

800



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

- b. N'walani nomboro dzi no khou tshela kha giridi i re af'ho ntsha.
c. N'walani nomboro dza 10 dzi no tevhela 800.

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

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

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

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

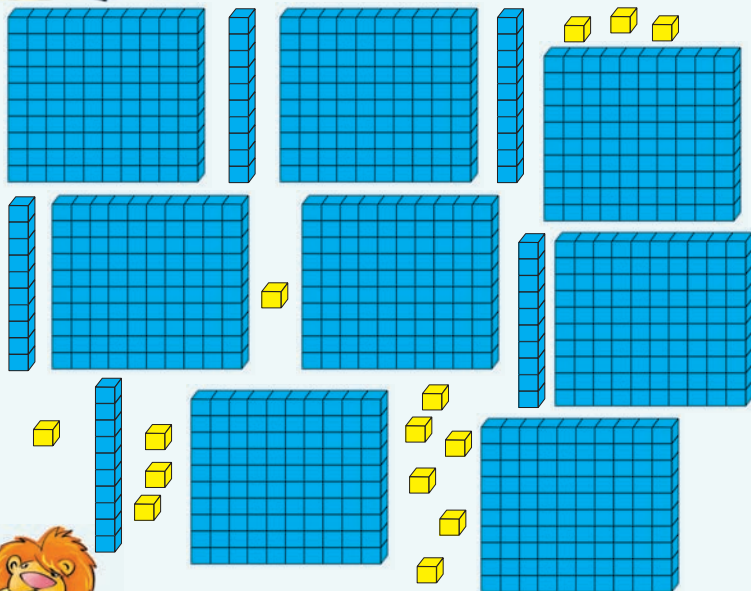
807; _____; _____; _____; _____; _____; _____; _____; _____; 829

- f. N'walani 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 mitalombalo.

830			833				837	838		
							876	881	886	
					843	846	849			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

845

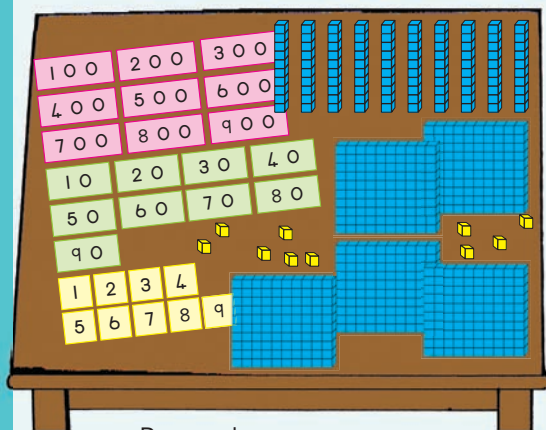


Teacher:

Sign:

Date:

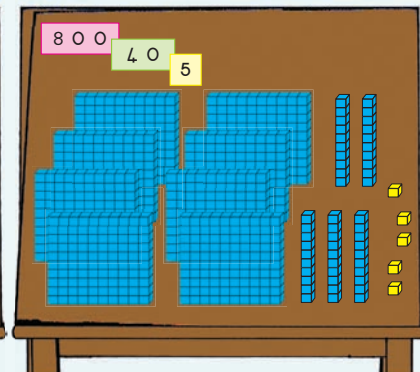
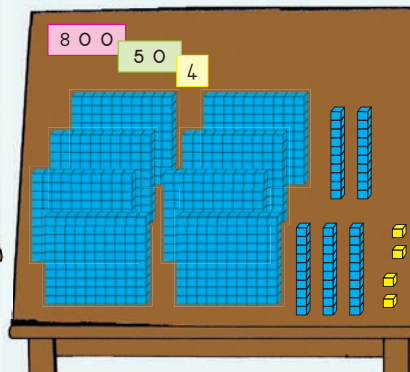
Nomboro dzinwe hafhu 800 u swika kha 900



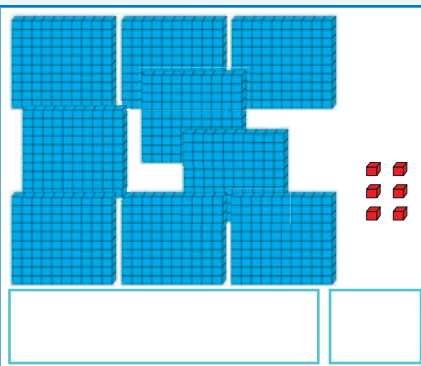
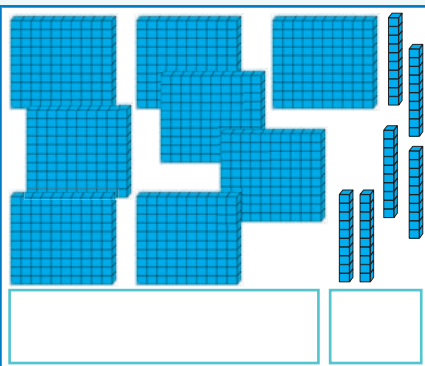
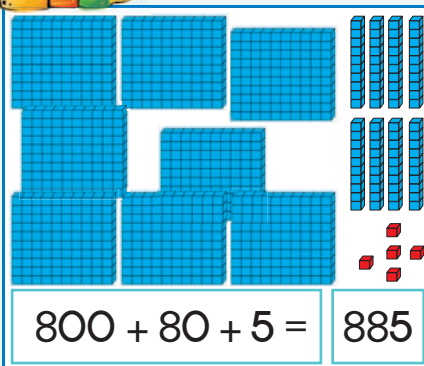
Peter o vha e na magarata a vhuimo ha nomboro na zwibuloko zwa beisi ya fumi zwi tevhelaho..

Mudededzi vho humbela Peter uri a sumbedze 854 nga magarata awe na zwibuloko.

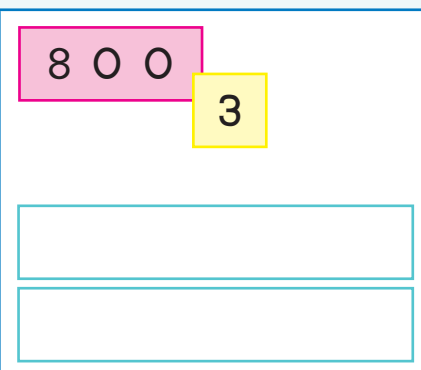
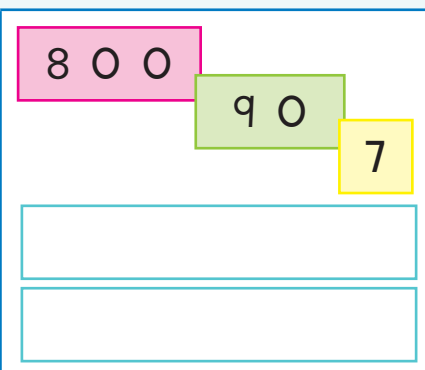
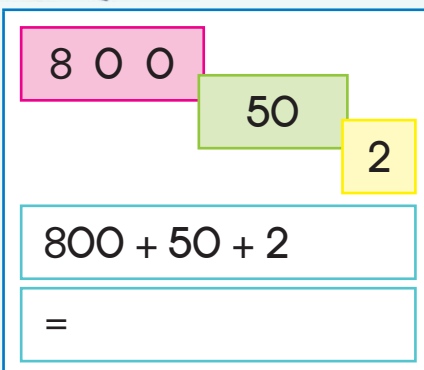
Hezwi ndi zwe Ben a sumbedza zwone. O khakha ngafhi?



Nwalani fhungombalo ni tevhedze nga phindulo.



Nwalani fhungombalo ni tevhedze nga phindulo.





Fhedzisani mutalombalo.

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

Mpheni nomboro dzotlhe dzi re tshukhu kha 894. _____

Mpheni nomboro dzotlhe dzi re khulwane kha 894. _____



Dzhenisani $< \text{kana} > =$

a. 899 _____ 898 b. 802 _____ 820

c. $900 + 70 + 5$ _____ 785



Padulani nomboro yanu.

a. Fhatani nomboro inwe na inwe nga magarata anu.

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

890	
889	
802	
855	
840	

Tsumbo: 876

8 0 0

7 0

6

8 7 6

876

$800 + 70 + 6$



Nwalani madzina a nomboro.

889	
825	
803	
830	
899	



Teacher: _____
Sign: _____
Date: _____

Ukala zwithu

Themo ya 4



Lavhelesani zwifanyiso zwi tevhelaho ni fhindule mbudziso.



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



Rothe ro t'angana ri lemela vhugai?

Nne ndi lemela 25 kg, khonani yanga 29 kg ngeno mukomana wanga a tshi lemela 4.5 kg.

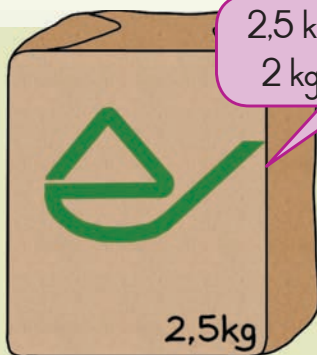


Zwibveledzwa izwi zwothe zwi lemela vhugai?

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.



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



Fhedzisani thebulu.

Mudededzi wanu vha do ni fha zwithu zwiṭanu 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 zwoṭhe?

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



Teacher:

Sign:

Date:

Khari kale hafhu

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

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

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

Zwikalo zwo fhambananaho

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

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

Litha ya magdi na tshileme tsha 1 kg.

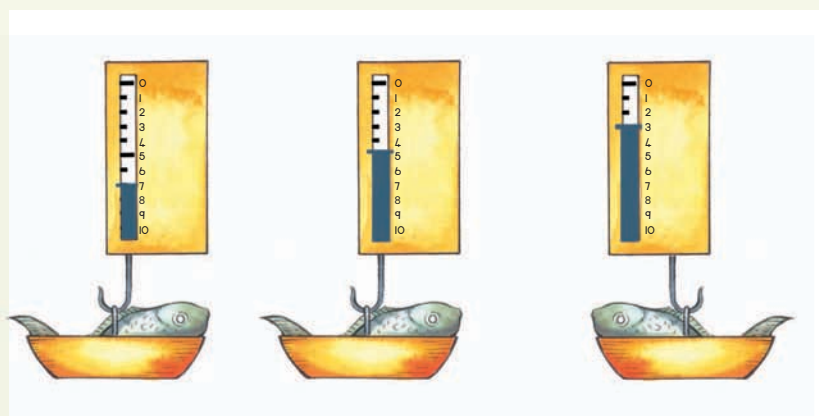


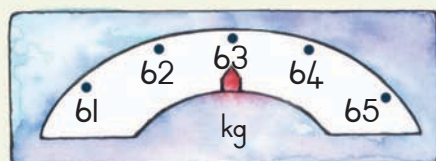
Khovhe i na tshileme tsha 3 kg.

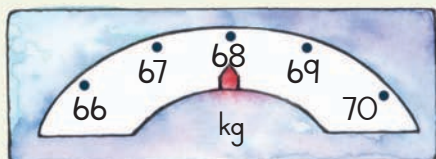


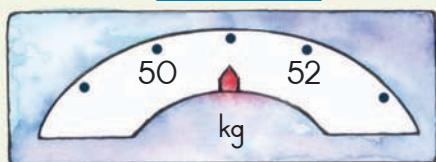
Wanani zwileme zwavho.

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







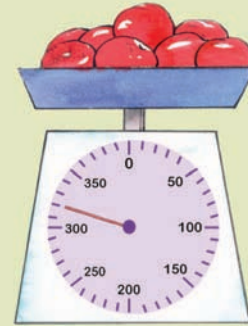




Ri shumisa dzigireme kha u kala ndeme ya zwithu zwi re zwiṭuku kana zwi no leluwa khathihi na u ela furakhisheni dza khilogreme.

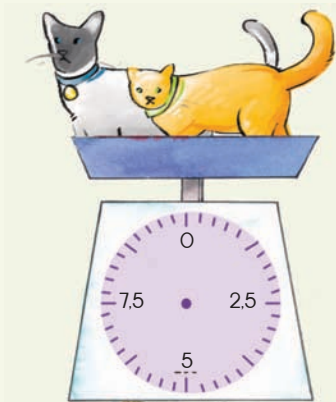
$$1\ 000\text{ g} = 1\text{ kg}$$

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



Zwilemela vhugai?

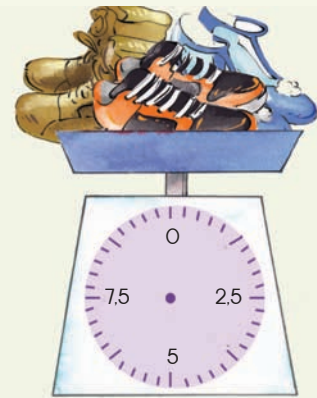
Olani hune musevhe wa tshikalo wa tea u sumba tshifhinga tshothe.



7 kg



4 kg



6 kg



Itani khilogireme.

Tanganyani ni ite 1 kg (1 000 g).

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



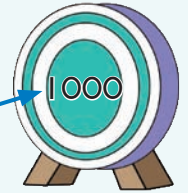
Nomboro 900 u swika kha 1 000



Vhalani ni n'wale.

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

900



901		903							910
								919	
		943					948		
981									
991								999	

- b. N'walani nomboro dzi no khou tshela kha giridi i re af'ho ntsha.

- c. N'walani nomboro dza 10 dzi no tevhela 900.

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

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

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

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

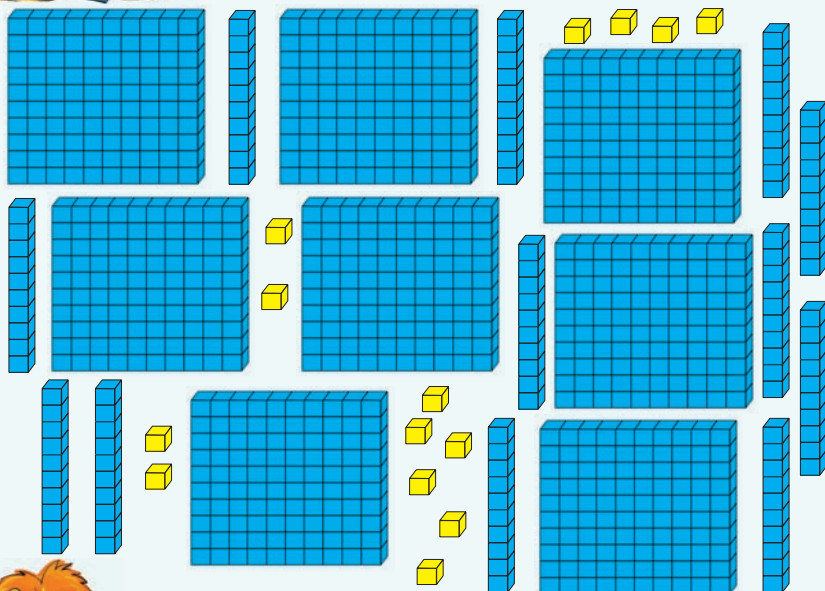
945; _____; _____; _____; _____; _____; _____; _____; _____; 967

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

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



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

950			953				957	958		
							956	961	966	
					903	906	909			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u swika kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

695	
-----	--



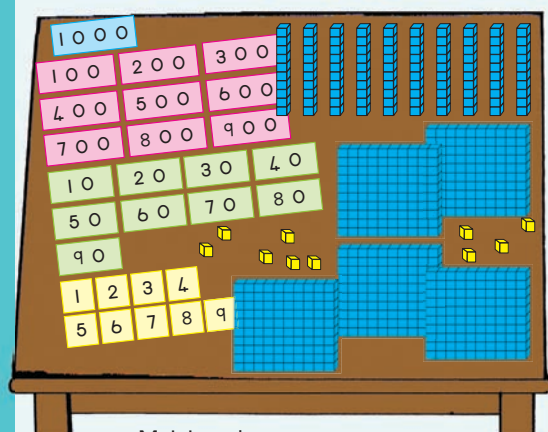
Teacher: _____

Sign: _____

Date: _____

Nomboro dzinwe

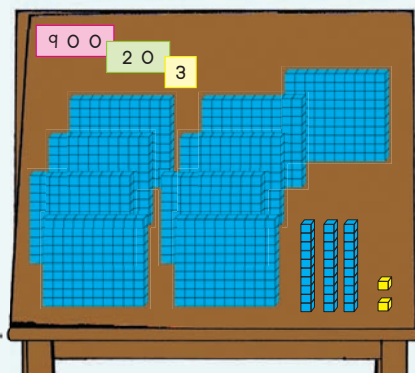
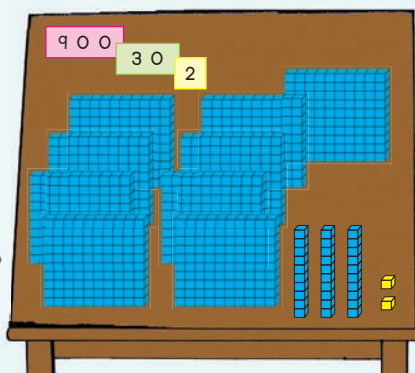
hafhu 900 u swika kha 1 000



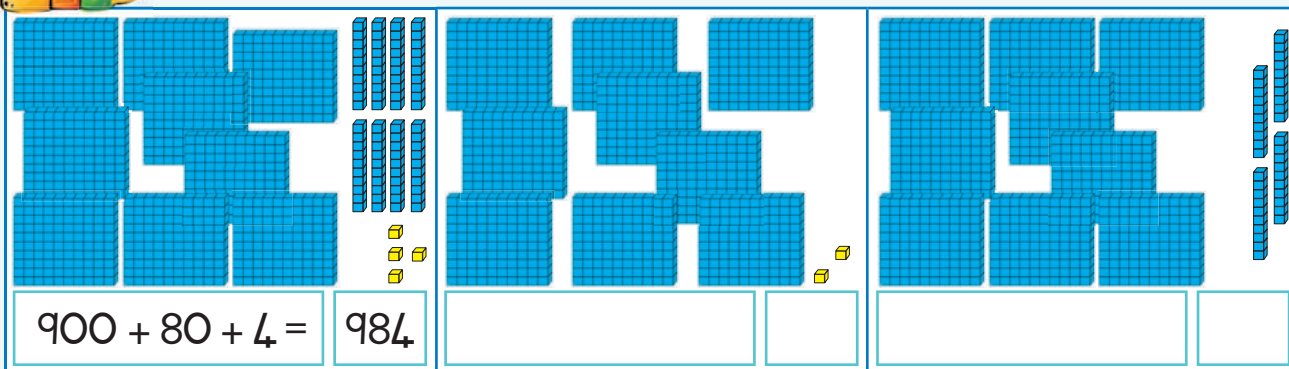
Mulalo o vha e na magaraṭa a vhuimo ha nomboro na zwibuloko zwa beisi ya fumi zwi tevhelaho.

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

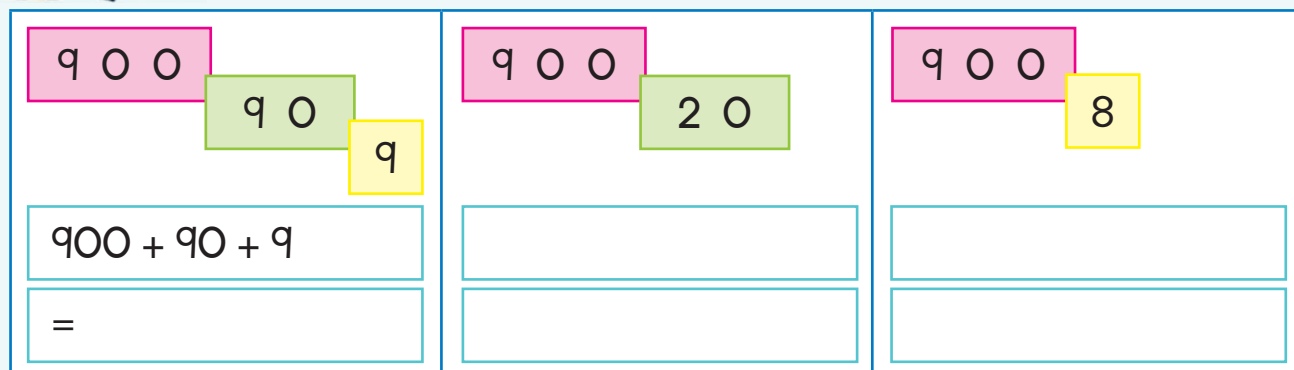
Hezwi ndi zwe Gugu a sumbedza zwone. O khakha ngafhi?



Nwalani f'hungo la nomboro ni tevhedze nga phindulo.



Nwalani f'hungombalo ni tevhedze nga phindulo.





Fhedzisani mutalombalo.



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

Mpheni nomboro dzotlhe dzi re tshukhu kha 995. _____

Mpheni nomboro dzotlhe dzi re khulwane kha 995. _____



Dzhenisani $< \text{kana} > =$

a. 999 _____ 998

b. 957 _____ 975

c. $900 + 60 + 1$ _____ 961



Padulani nomboro yanu.

a. Fhatani nomboro inwe na inwe nga magarata anu.

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

922	
959	
980	
907	
931	

Tsumbo: 984

9 0 0

8 0

4

9 8 4

984

$900 + 80 + 4$



Nwalani madzina a nomboro.

976	
905	
950	
821	
909	



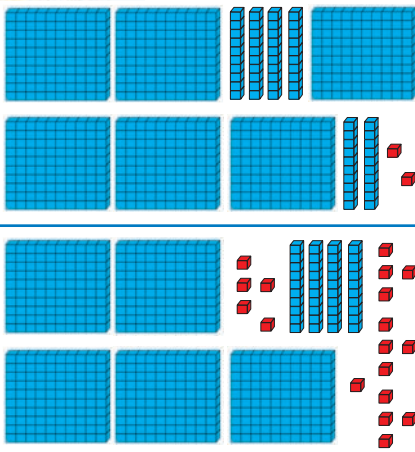
Teacher: _____
Sign: _____
Date: _____

Mutanganyo na mutuso u swika kha 999

Themo ya 4



Nwalani fhungombalo la inwe na inwe.



Talutshedzani uri no vhalisani hani zwibuloko.

Talutshedzani uri no vhalisani hani zwibuloko.



Shumisani tsumbo uri i ni dededze.

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



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

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



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

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

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

c. $470 + 470$

d. $461 + 462$



Thasululani zwi tevhelaho:



Vhana vha Gireidi ya 2 vho kuvhanganya mimavhulu ya 360.

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

Vhana vha Gireidi ya 3 vha na mimavhulu mingana?



Teacher: _____
 Sign: _____
 Date: _____

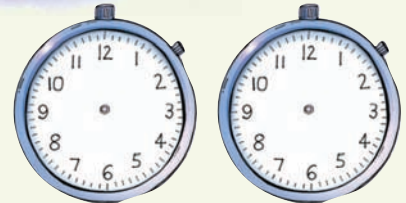
Hayani



Duvha la u baka.

Makhadzi Vho Masindi vha baka vhurotho ovenini.

Sumbedzani zwifhinga kha watshi idzi.



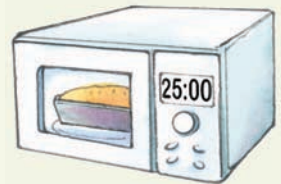
Vha dzhenisa vhurotho nga themo ya u bva kha awara ya 4.

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

Vhurotho vhu dzhia tshifhinga tshingafhani uri vhu vhibve? _____

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

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



Vhurotho vhu do vhibva nga tshifhingade? _____

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



Mishumo ya nga matsheloni.



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



	U thoma	U fhedza	Tshifhinga tshingafhani?
U bika vhuragane	6:15	6:40	
U ṭanzwa 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 maḍi a liṯha dza 30 nga minete wa !!

Hosiphaiphi i nga kona u shumisa maḍi a liṯha nngana nga:

minete ya 2 ndi liṯha dza _____

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

minete ya 5 ndi liṯha dza _____

minete ya 10 ndi liṯha dza _____



U bika ṅama ya khere.

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

Vha a riwala uri vho shumisa oili nngafhani ḍuvha liṅwe na liṅwe.

Mus	Ḳavhuv	Ḳavhur	Ḳavhun	Ḳavhut	Mug	Sun
						

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. Bodeḷo liṯhihi Ḳa 750ml Ḳa mapfura Ḳi ḍura R18,50
Mabodeḷo a 4 a ḍura vhugai? _____.



Tolani!
Vhambedzani!
Lulamisani



Ushuma nga tshelede



Vhalani khoini na dzinoutu.

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



Lwendo nga tshidimela.

Vho Khethani na vhana vhavho vha 3 vha namela tshidimela.

Vhahulwane na vhana vha badela u fana.

Vho Khethani vha badela nga hedzi dzinoutu (tshelede ya bammbiri).



Tolani!
Vhambedzani!
Lulamisanani

Vha wana tshintshi ya R30.

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

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



Tshiphaza tsha Sandile.

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

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

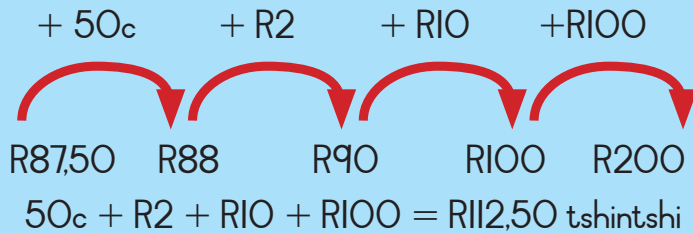
		Anganyelani	Thanganyelo
Musumbuluwo	$R50 + R75 + R200 + R350 + R25$		
L̄avhuvhili	$R25 + R175 + R50 + R320 + R90$		
L̄avhuraru	$R50 + R75 + R200 + R350 + R25$		
L̄avhuna	$R120 + R55 + R180 + R245 + R25$		
L̄avhut̄anu	$R60 + R150 + R140 + R200 + R125$		
Mugivhela	$R50 + R75 + R200 + R350 + R25$		
Swondaha			



Wanani uri tshintshi ndi vhugai.

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

Tsumbo:	+ 50c + R2 + R10 + R100
Maḍuvha u renga zwiliwa zwa R87,50	
U badela nga noutu ya R200.	
Tshintshi yawe ndi vhugai?	



Shumisani mitalombalo uri i ni thuse u wana tshintshi.

Mutengo: R229,40

Ni badela nga:



Mutengo: R305,60

Ni badela nga:



Mutanganyo na mutuso u swika kha 999 hafhu

Themo ya 4



Kha ri tandulule thaidzo.

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

Mbudziso ndi ifhio?

Hu na zwiṭikara zwingana zwino?

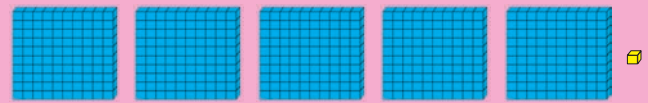
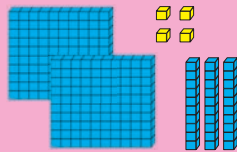
Ipfi li re khii ndi lifhio? zwinzhi

Nomboro ndi ifhio? 234 na 501

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



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



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



Kuvhetshela kwa Lisa kwa zwibuḽoko 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.

Nḁila ya 1

Nḁila ya 2



Mishumo ya nga matsheloni.

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

Mbudziso ndi ifhio? _____

Nomboro ndi dzifhio?	Ipfi li re khii ndi lifhio? Itani thiki kha phindulo yone. Ipfi li re khii li ri vhudza uri ri: Tanganye Tuse
Itani nyolo.	Shumisani ndila yanu kha u tandulula thaidzo.

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

Mbudziso ndi ifhio? _____

Nomboro ndi dzifhio?	Ipfi li re khii ndi lifhio? Itani thiki kha phindulo yone. Ipfi li re khii li ri vhudza uri ri: Tanganye Tuse
Itani nyolo.	Shumisani ndila yanu kha u tandulula thaidzo.



Mutanganyo na mutuso u swika kha 999 hafhu

Lavhelesani nyolo ni i talutshedze.



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 ntsha ha 523 ndi _____.

b. 15 nga ntsha ha 540 ndi _____.

c. 20 nga ntsha ha 576 ndi _____.

d. 60 nga ntsha ha 590 ndi _____.

e. 537 ho tuswa 29 ndi _____.

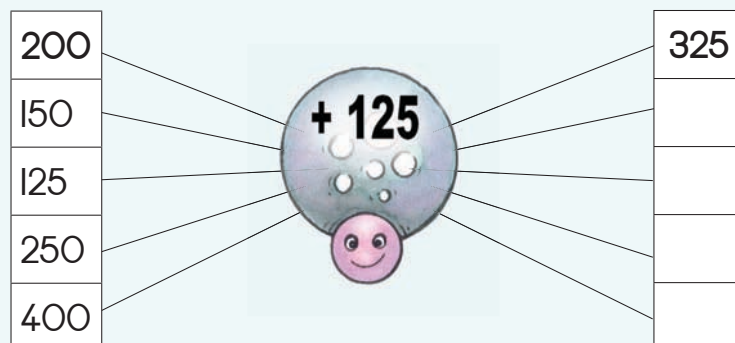
f. Hafu ya 300 ndi _____.

g. Davhulu ya 420 ndi _____.

h. Hafu ya 600 ndi _____.



Tanganyani 125





Ndi mini zwi no vhumba 1 000?

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

Wanani mita ya nomboro dza + na -

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



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

Tolani!
Vhambedzani!
Lulamisani

Tanganyani na utusa mahumi na madana.

a. Mahumi na madana

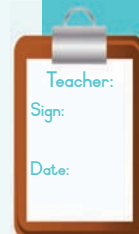
$78 + 10 =$	$149 + 10 =$	$456 + 100 =$	$987 + 10 =$
$636 + 100 =$	$801 + 100 =$	$727 + 100 =$	$612 + 10 =$
$456 - 10 =$	$749 - 100 =$	$829 - 100 =$	$987 - 10 =$
$875 + 10 =$	$709 - 100 =$	$815 + 10 =$	$903 - 100 =$

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:

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



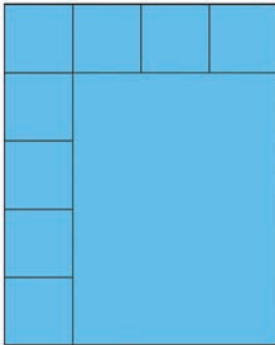
Phazili (khanganyisa) dza mielo



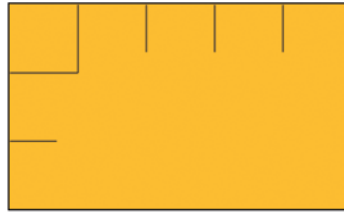
Wanani nyalo.

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

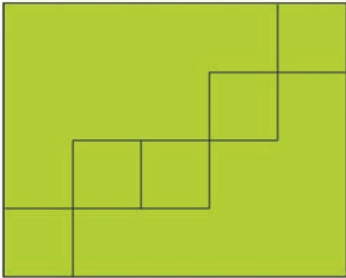
a.



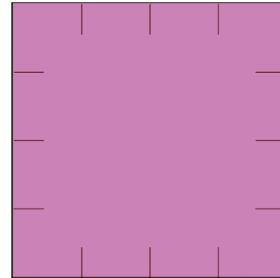
b.



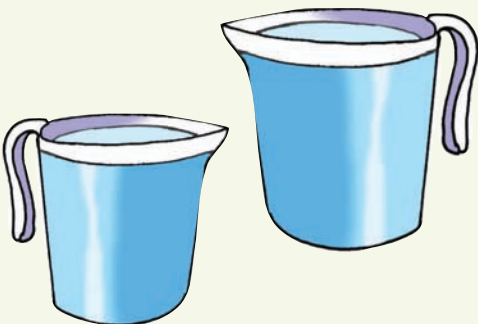
c.



d.



Thasululani thai.



Ni khou tōda u pima litha dza 4 kokotolo.

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

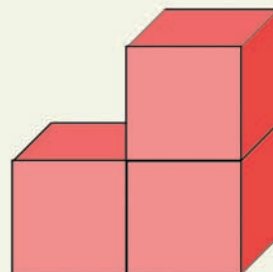
Lusevhedi: hu na ngila dzi no swika mbili.



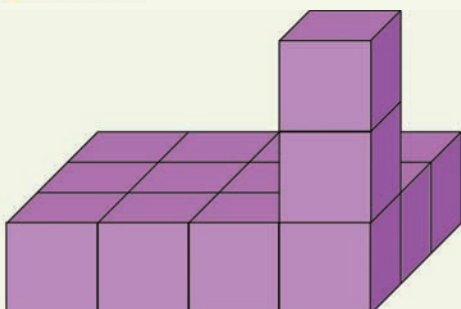
Ni kona u vhona mini?

Zwibuloko zwiraru zwo nambatelana u fana na tshifanyisoni itshi.

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



Vhalani khiubu.



Ndi khiubu nngana dzi dze dza vhumba tshivhumbeo itshi?



Khaedu: thai ya tshifhinga

Ni na watshi mbili dza mutavha.

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

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

Tolani!
Vhambedzani!
Lulamisani





Phetheni dza nomboro:

mahumi u swika kha 900

Deithi:

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 if'hio?

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 zwitanda zwingana?

Hu na zwitanda



zwa fumi kha nanda nthihi.



1 = zwitanda zwa _____

2 = zwitanda zwa _____

3 = zwitanda zwa _____

4 = zwitanda zwa _____

5 = zwitanda zwa _____

6 = zwitanda zwa _____

7 = zwitanda zwa _____

8 = zwitanda zwa _____

9 = zwitanda zwa _____

10 = zwitanda zwa _____

10 = zwitanda zwa _____

20 = zwitanda zwa _____

30 = zwitanda zwa _____

40 = zwitanda zwa _____

50 = zwitanda zwa _____

60 = zwitanda zwa _____

70 = zwitanda zwa _____

80 = zwitanda zwa _____

90 = zwitanda zwa _____

100 = zwitanda zwa _____



Rou ya zwitanda.



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

Rou ya 1 ya nanda dza 100 = zwitanda zwa 100

$$10 \times 10 = 100$$

Rou dza 2 dza nanda dza 10 = zwitanda zwa _____

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

Rou dza 4 dza nanda dza 10 = zwitanda zwa _____

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

Rou dza 10 dza nanda dza 10 = zwitanda zwa _____

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



Hu na nanda nngana?

zwitanda zwa 700 zwi ita nanda dza _____.

zwitanda zwa 900 zwi ita nanda dza _____.

zwitanda zwa 1 000 zwi ita nanda dza _____.



Teacher: _____
Sign: _____
Date: _____

Sendedzani kha IO ya tsinisa

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



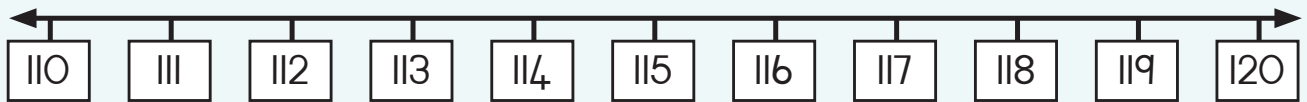
Ni elelwe uri ni tea u sedza dziyuniti musi ni tshi sendedza tsini na IO ya tsinisa.



Sendedzani tsini na IO ya tsinisa.

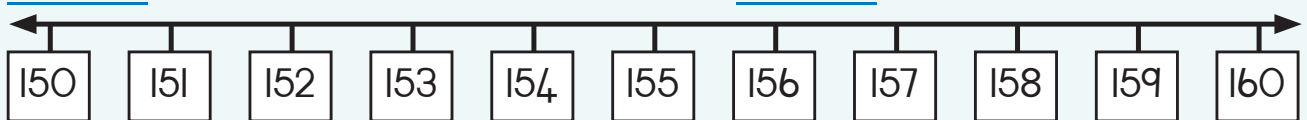
114 yo sendedzwa tsini ndi? _____

117 yo sendedzwa tsini ndi? _____



159 yo sendedzwa tsini ndi? _____

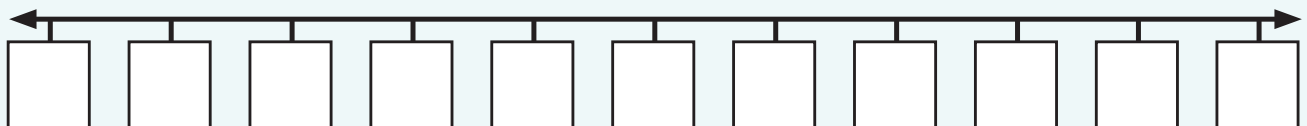
151 yo sendedzwa tsini ndi? _____



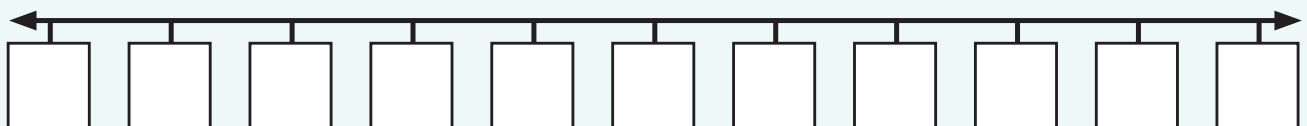
Sendedzani tsini na IO ya tsinisa.

Olani mutalombalo wa inwi mune.

195



945





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 mutalombalo ha nomboro iyi i no khou sendedzwa tsini.

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



b. 877



c. 901



d. 566



e. 999



Sendedzani tsini na 10 ya tsinisa.

- | | | | | | | | | | |
|--------|----------------------|--------|----------------------|--------|----------------------|--------|----------------------|--------|----------------------|
| a. 161 | <input type="text"/> | b. 583 | <input type="text"/> | c. 415 | <input type="text"/> | d. 848 | <input type="text"/> | e. 612 | <input type="text"/> |
| f. 230 | <input type="text"/> | g. 327 | <input type="text"/> | h. 989 | <input type="text"/> | i. 534 | <input type="text"/> | j. 748 | <input type="text"/> |



Ndi do shumisa noutu nngana dza RIO?

Mbali na khonani dzawe dza 8 vha khou ya vhuṭamboni ha ḍuvha la u ḍiphina la tshikolo.

Ḍuvha ili li badelelwa R4 muthu muthihi. Mbali o vhulunga tshelede ine a do badelelavho na avha vharwe ngayo. A ya ATM u bvisa tshelede. ATM i kona fhedzi u bvisa tshelede ya dzinoutu. U tea u vha e na noutu nngana dza RIO?



Teacher: _____
Sign: _____
Date: _____

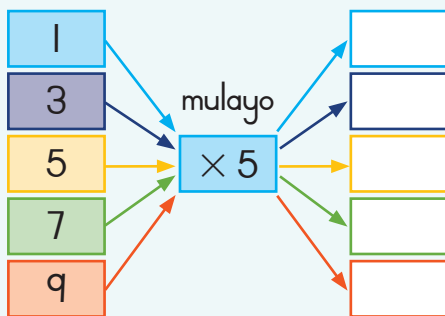
Muandiso na mukovho: u swika kha 100



Fhedzisani nyolo ya muelo.

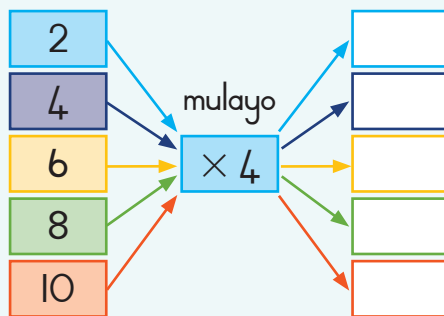
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebulu i re afho fhasi:

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



Rekanyani:

$$12 \times 5$$

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

$$11 \times 5$$

$$13 \times 5$$

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

$$13 \times 5$$



$$45 \div 5$$

$$\begin{aligned}
 &= (40 + 5) \div 5 \\
 &= (40 \div 5) + (5 \div 5) \\
 &= 8 + 1 \\
 &= 9
 \end{aligned}$$

$$75 \div 5$$

$$48 \div 5$$

$$\begin{aligned}
 &= (40 + 8) \div 5 \\
 &= (40 \div 5) + (8 \div 5) \\
 &= 8 + 1 \text{ ha sala } 3 \\
 &= 9 \text{ ha sala } 3
 \end{aligned}$$

$$13 \div 5$$



Tandululani mbalo dzi tevhelaho:

Ngade ya miroho i na rou dza 14 dza zwimela.

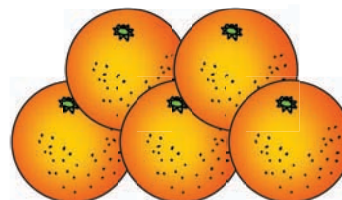
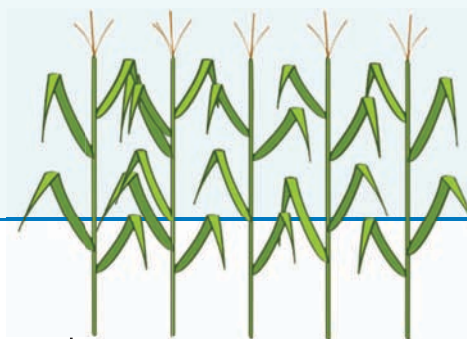
Rou inwe na inwe i na tshivhalo tshi no fana tsha zwimela.

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

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

U na maswiri a 85.

A nga dadza zwikedzi zwingana.



Phetheni dza nomboro: t_xhanu u swika kha 1 000

Kha ri vhale nga t_xhanu u thoma kha 805 u swika kha 900.

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



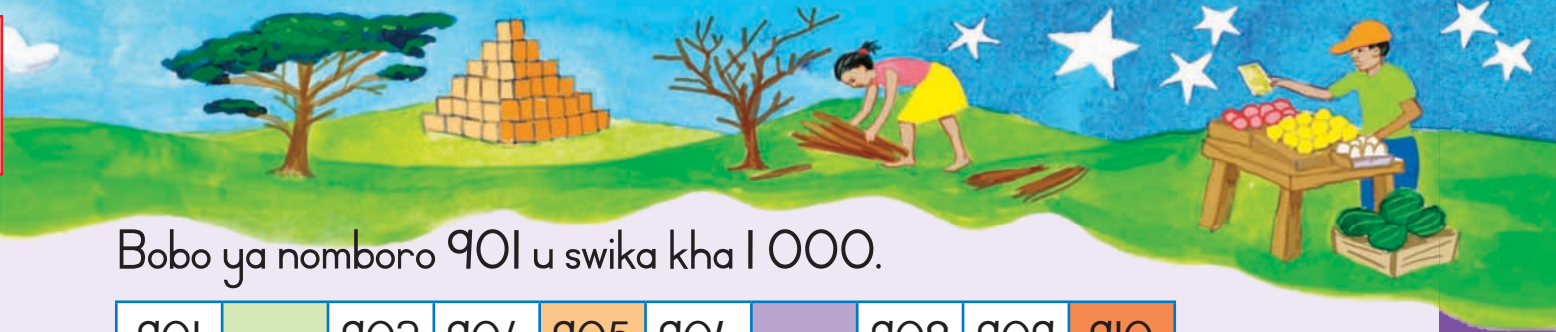
Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

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



Rekanyani.

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



Bobo ya nomboro 901 u swika kha 1 000.

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



Nwalani nomboro dzi no khou t̄ahela.

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



Fhedzisani phetheni.

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

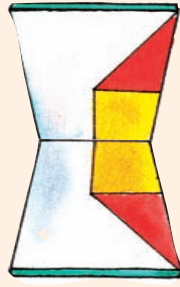


Teacher: _____
Sign: _____
Date: _____



Deichi:

Zwiwwe hafhu nga Simethiri (Ndinganahuvhili)



Tshivhonini.

Tambani na muñwe nga inwi ni tshi shumisa sethe

dza phazili dza dzithali (zzipida zwa 14) zwi no bva kha Tshigeriwa 10.

Mutambi muñwe na muñwe u na hafu ya zzipida (zzipida zwa 7) zwa phazwili ya dzithali.

Zzipida a zwo ngo tea u fana.

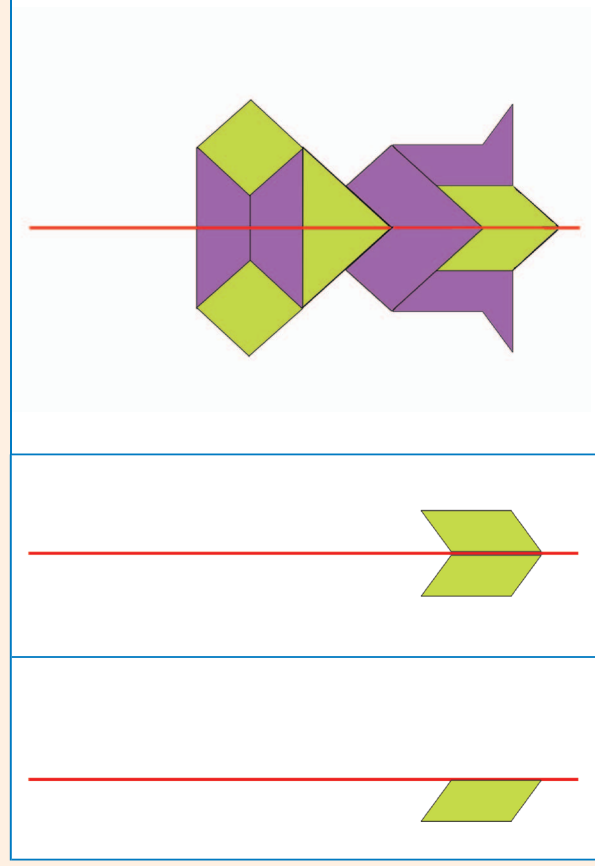
Talani mutaladzi vhukati ha tshipida tsha bambiri. U do vha wone "mutalo wa murunzi".

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

Zwino mutambi wa vhuvhili u vhea murunzi u vhea tshipida kha luñwe lurumbu lwa mutaladzi.

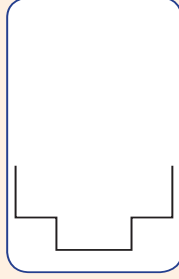
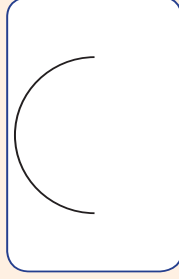
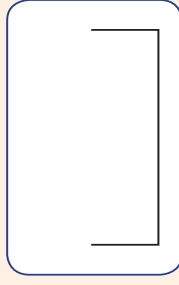
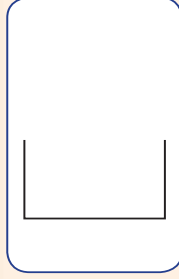
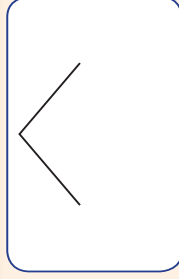
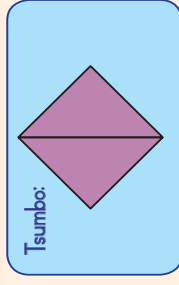
Tshi tea u kwama mutaladzi kana tshirwe tsha zzipida zwo no vhwaho.

Isani phanda u swika zzipida zwothe zwo no fhelela.

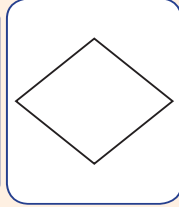
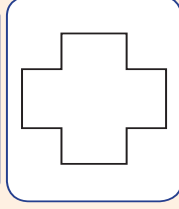
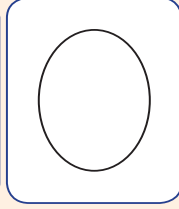
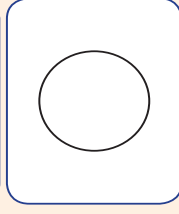
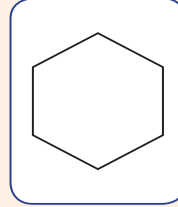
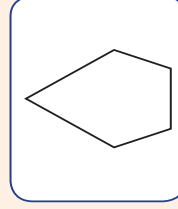
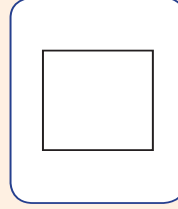


Olani lulä luñwe lurumbu lwa tshivhumbeo.

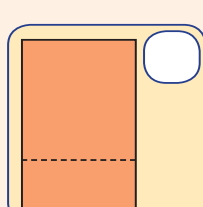
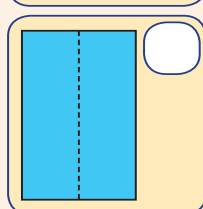
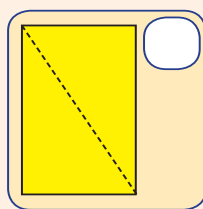
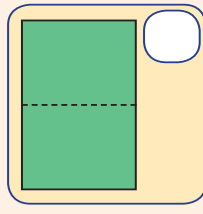
Sumbedzani mutaladzi wa semethiri.

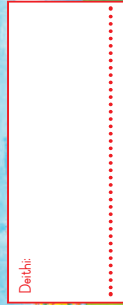


Talani mutaladzi wa simethiri wa zwi tevhelaho:



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





Phetheni dza nomboro: mbili u swika kha 900

Kha ri vhdle nga ţhanu 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 ifhio?

Dzo tangedzelwaho nga muvhla wa lutambo :	U vhalela nga _____.
Nwalani phetheni:	
Dzo tangedzelwaho nga muvhla mudala :	U vhalela nga _____.
Nwalani phetheni:	



Rekanyani.

a. $872 + 2 + 2 + 2 =$ _____	b. $820 - 2 - 2 - 2 =$ _____	c. $844 + 2 + 2 =$ _____
d. $832 - 2 - 2 - 2 =$ _____	e. $883 + 2 =$ _____	f. $842 - 2 - 2 =$ _____
g. $801 + 2 + 2 + 2 + 2 =$ _____	h. $85 - 2 =$ _____	i. $846 - 2 - 2 - 2 =$ _____



Odo na ivini.

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

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

b. Fhindulani uri ivini kana odo.

Na ţanganya nomboro mbili dza odo. Ni wana nomboro ya _____
 Na ţanganya nomboro mbili dza ivini. Ni wana nomboro ya _____
 Na ţanganya nomboro tharu dza odo. Ni wana nomboro ya _____

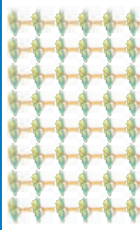
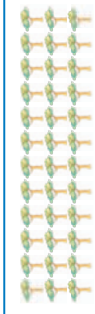
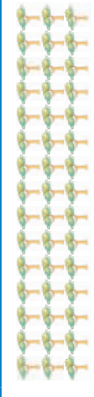


U ţavha miri.

Hei ndi inwe ndila ya u ţavha miri ya 48 kha rou dzi no eḡana.

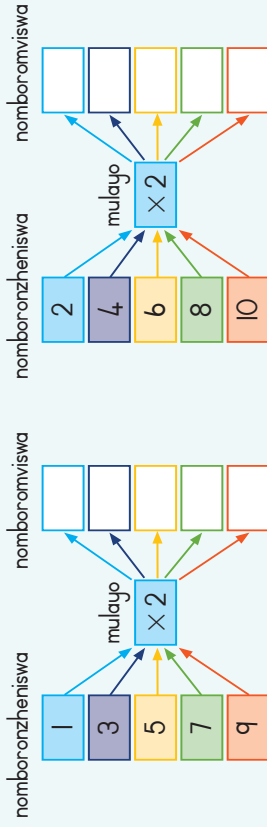


Ri nga ņwala: $2 \times 24 = 48$ (rou dza 2 dza miri ya 24 = 48) kana $48 \div 2 = 24$ (miri ya 48 yo vhambela kha rou dza 2 dzi no lingana i ri fha miri ya 24 kha rou nthihi). Vhalani rou na miri zwi re tshifanyisoni tshiinwe na tshiinwe afho fhasi. Nwalani fhungombalo ja x na a ÷ ni tshi livhanya (metshisa).

a.	$___ \times ___ =$	$___ \div ___ =$	
b.	$___ \times ___ =$	$___ \div ___ =$	
c.	$___ \times ___ =$	$___ \div ___ =$	
d.	Wanani inwe nḡilavho ya u ţavha miri ya 48 kha dzirou.	$___ \times ___ =$	$___ \div ___ =$
e.	Wanani inwe nḡilavho ya u ţavha miri ya 48 kha dzirou.	$___ \times ___ =$	$___ \div ___ =$

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

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
2										



Rekanyani:

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

$$46 \div 2$$

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

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

$$= 20 + 3$$

$$= 23$$

$$74 \div 2$$

$$47 \div 2$$

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

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

$$= 20 + 3 \text{ ha sala } 1$$

$$= 23 \text{ ha sala } 1$$

$$75 \div 2$$



Tandululani mbalo dzi tevheldho:

Ngade ya miroho i na rou dza 32 dza zwimela.

Rou inwe na inwe i na zwimela zwa 2.

Hu na zwimela zwingana ngadeni?

Ngade ya miroho i na rou dza 40 dza zwimela.

Rou inwe na inwe i na zwimela zwa tshivhelo tshi no lingana.

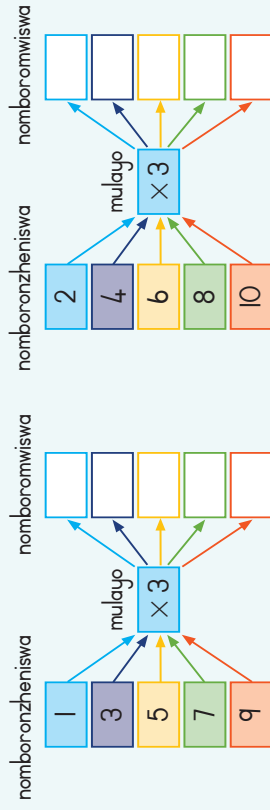
Arali hu na thanganyelo ya zwimela zwa 80, hu na zwimela zwingana kha rou inwe na inwe?



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



Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

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



Rekanyani:

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

$$63 \div 3$$

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

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

$$= 20 + 1$$

$$= 21$$

$$65 \div 3$$

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

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

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

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



Tandululani mbalo dzi tevhelaho:

Musiwa u na malegere a 30.

A fhira a Jacob kafumi.

Jacob u na malegere mangana?

Ngade ya miroho i na rou dza 29 dza zwimela.

Rou inwe na inwe i na zwimela zwa 3.

Hu na zwimela zwingana ngadeni?



Phetheni dza nomboro:

ttharu u swika kha 1 000.

Kha ri vhale nga tharutharu (dziraru) u bva kha 803 u swika kha 899.

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

Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

Dzo tangedzelwaho nga muvhala wa tshitopana:	U vhalela nga _____.
Nwalandi phetheni:	
Dzo tangedzelwaho nga muvhala mudala:	U vhalela nga _____.
Nwalandi phetheni:	



Rekanyani.

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

Bodo ya nomboro 901 u swika kha 900.

901		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	940
	942	943		945	946		948	949	
951	952		954	955		957	958		960
961		963	964		966	967		969	990
	972	973		975	976		978	979	
981	982		984	985		987	988		990
991		993	994		996	997		999	1000

Nwalandi nomboro dzi no khou tshela.

Khalarani zwiibuloko zwi re na nomboro i no khou tshela nga muvhala mudala.

Khalarani zwiibuloko zwiitshena nga muvhala mutswuku. Ni kona u vhona phetheni ifhio?



Fhedzisani phetheni.

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

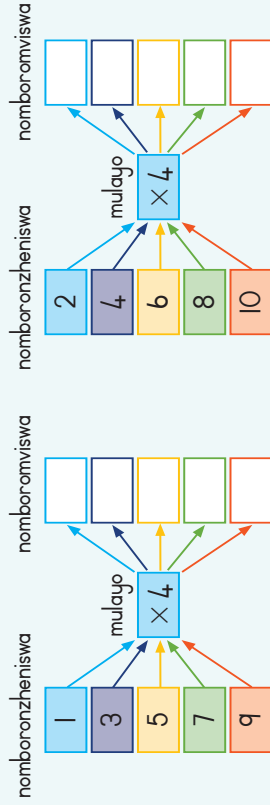
Teacher: _____

Sign: _____

Date: _____

Muandiso na mukovho: dziina u swika kha 100

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

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

Rekanyani:

12 x 4 = (10 + 2) x 4 = 40 + 8 = 48	11 x 4
13 x 4 = (10 + 3) x 4 = 40 + 12 = 52	15 x 4

48 ÷ 6 = (40 + 8) ÷ 6 = (40 ÷ 6) + (8 ÷ 6) = 10 + 2 = 12	64 ÷ 4
45 ÷ 4 = (40 + 5) ÷ 4 = (40 ÷ 4) + (5 ÷ 4) = 10 + 1 ha sala 1 = 11 ha sala 1	49 ÷ 4



Tandululani mbalo dzi tevhelaho:

Mulaledzi u na mategere a 36.

U ja mategere a 4 dluha liniwe na liniwe.

A nga ja mategere maduvha mangana?

Mulondo u na phakhethe dzi re na maswiri mapu kha iniwe na iniwe.

U na maswiri a 88.

A nga kona u dadza phakhethe nngana?



Phetheni dza nomboro:

nnganna (dziing) u swika kha 1 000

Kha ri vhale nga nnganna u thoma kha 804 u swika kha 900.

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

Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

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



Nwalani phetheni:

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

Bodo ya nomboro 901 u swika kha 1000.

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

Nwalani nomboro dzi no khou tshela.

Khalarani zwibuloko zwi re na nomboro i no khou tshela nga muvhala mudala.

Khalarani zwibuloko zwitshena nga muvhala mutswuku. Ni kona u vhona phetheni ifhio?



Fhedzisani phetheni.

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

Zwipidža zwi no lingana zwa yoṭhe

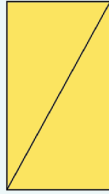
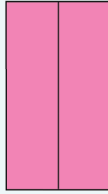
Hafu nthihi, nga ndila dzo fhambananaho dza u i tshea.

Gerani rekithiengele dzi tshi bva kha bambiri ja muvhala (kha Tshigeriwa tsha II).



Wanani dziṛwe ndila dzo fhambananaho dza u vhumba hafu nthihi.

1. Petani rekithiengele ya bambiri nga vhukati ni tshi tevhedza vhulapfu. Gerani bambiri nga vhukati heneḥo he na peta hone. Zwipidža izwi a lingana. Tshiṛwe na tshiṛwe tshazwo tshi pfi ndi hafu nthihi ($\frac{1}{2}$) ya rekithiengele ya kale na kale (ya u thomani).
2. Petani rekithiengele ya bambiri nga vhukati ni tshi tevhedza u rambalala. Gerani bambiri nga vhukati heneḥo he na peta hone. Zwipidža izwi a lingana. Tshiṛwe na tshiṛwe tshazwo tshi pfi ndi hafu nthihi ya bambiri ja kale na kale (ja u thomani).
3. Hu na ndila ifhio iṛwe ya u fhandula bambiri ja bva zwipidža zwiḥili zwi no lingana? Edzani ni tshi shumisa tshigero na bambiri, ni kone u ita mutalo wa zwitomathoma afho he na peta hone ni gere.



2 Zwipidža zwi no lingana zwa tshotḥe hafu.

Musi ri tshi khethekanya tshithu tsha bva zwipidža zwa **2** zwi lingandho, izwo zwipidža ri zwi vhidza dzihafu.

Musi ri tshi khethekanya tshithu tsha bva zwipidža zwa **3** zwi lingandho, izwo zwipidža ri zwi vhidza zwararu.

Musi ri tshi khethekanya tshithu tsha bva zwipidža zwa **4** zwi lingandho, izwo zwipidža ri zwi vhidza dzikota kana zwaṛaṇa.

Musi ri tshi khethekanya tshithu tsha bva zwipidža zwa **5** zwi lingandho, izwo zwipidža ri zwi vhidza zwaṭhanu.



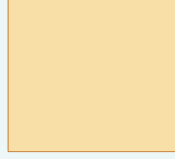
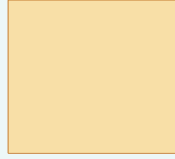
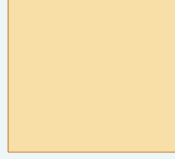
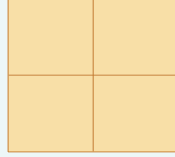
Sangwetshi dza tshiswiṭulo.

Thendo na khanani dzawe dza 3 vha a ita sendiwitshi nnzhi dza tshiswiṭulo.

Vha dzi tshea nga dzikota na zwaṇa kana dzikota.

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

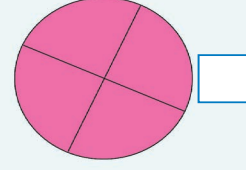
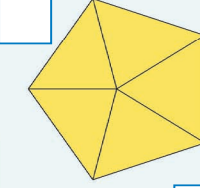
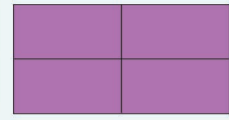
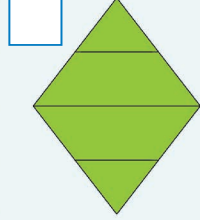
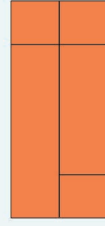
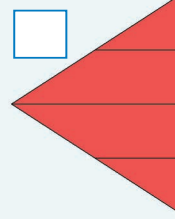
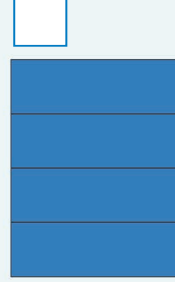
Iṛwe ndila asiṛi. Sumbadzani dziṛwe ndila tharu dzine na nga zwi ita ngadzo.



U kovha ha bva zwaṇa.

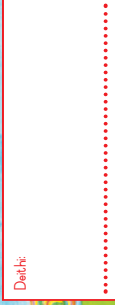
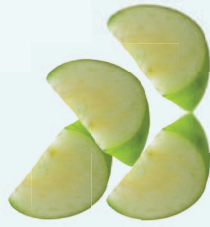
Ṭolani! Vhambadzani! Lulamisani

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



Mbalo dza furakhisheni

Rerani nga dzifurakhisheni ni na khonani dzanu.



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

a. Khoutshara ya netibolo u fha mutambi muñwe na muñwe hafu ya swiri. Hu na vhotambi vha 14.

U tea u vha e na maswiri mangana? _____

Mbudziso ndi ifhio? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi li re khii ndi lifhio? _____

Olani tshifanyiso. _____



Ipfi li re khii ndi ipfi line
la go nthusu kha u nanga
mashumele a re one.

Phindulo ndi ifhio? _____

b. Mine anga vha fha nge na khonani dzanga dza fumintihhi kota ya apula muthu muthihi.

Vha tea u vha vhe na maapula mangana? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi li re khii ndi lifhio? _____

Olani tshifanyiso. _____



Phindulo ndi ifhio? _____

c. Nga dlvha la vhuṭambo ha tshikolo ho rengiswa khekhe dze dza vha dzo tshewa nthihi ya bva zipida zwiraru.

Vha rengisela vhatu vha 24 zwilai zwa khekhe.

Vho rengisa khekhe nngana? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi li re khii ndi lifhio? _____

Olani tshifanyiso. _____

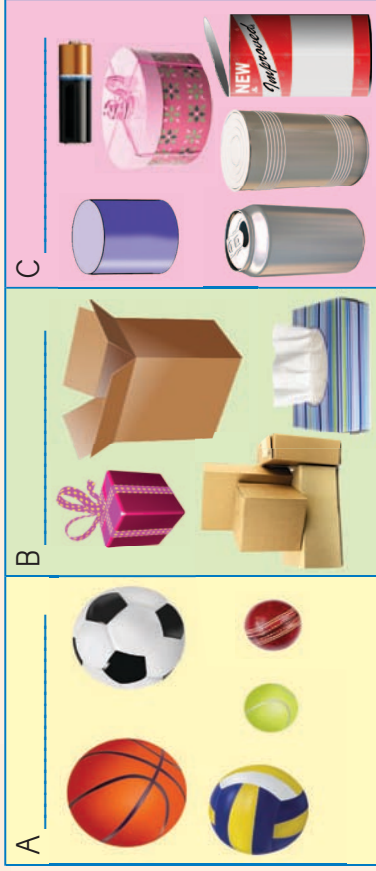


Phindulo ndi ifhio? _____

Zwiṭhu zwa 3-D

Lavhelesani zwifanyiso.

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



Wanani zwifanyiso zwiṭhili zwa tshinwe na tshinwe ni zwi nambatedze.

--	--	--



Talelani phindulo i re yone.

- Tamatšisi li na tshivhumbeco tsha bola-/bogisi-/silinda.
- Ngilasi ya magi i na tshivhumbeco tsha bola-/bogisi-/silinda.
- Bugu i na tshivhumbeco tsha bola-/bogisi-/silinda.



Tswititi na ngovhe (kuta).

Zwiṭwe zwiṭhu zwa solidi zwi na vhurumbunṭha ha mabaphathi (fulethe).
Zwiṭwe zwi na vhurumbunṭha ha ngovhe (ho kutaho).

Silinda i na masia mavhili a bande na liṭhihi lo kutaho.	Khounu ina sia liṭhihi la bande na sia liṭhihi lo kutaho.	Tshipulumbu tshi na ngovhe hoṭhe (tsho kuta hoṭhe).



Ukunguluwa.

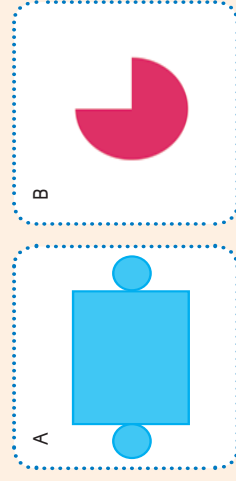
Elekanyani uri silinda, khounu, kana tshipulumbu zwi nga kunguluwa nga ndlode.

Kha zwiṭhu zwa 3, ndi tshifhio tshine:

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



Nete ndi mini?



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

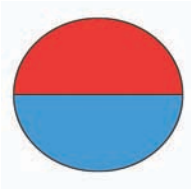
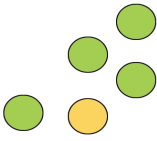
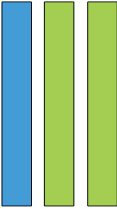
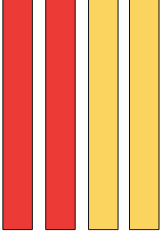
Nwalani ledere la nete line la petea la vhumba khounu. _____

Nwalani ledere la nete line la petea la vhumba silinda. _____

Furakhisheni hafhu

Bulani dzina la furakhisheni.

Nwalani furakhisheni ya zwifanyiso zwi re afho fhasi.

	
a. Zwiwswuku ndi furakhisheni ifhio? _____	b. Zwidala ndi furakhisheni ifhio? _____
	
c. Zwa lutombo ndi furakhisheni ifhio? _____	d. Zwa tãda ndi furakhisheni ifhio? _____



Findulani mbudziso.

a. Sizwe u na zwipida zwina zwa tshokoleithi. U fha khonani yawe tshithini.

Ho sala furakhisheni ifhio ya tshokoleithi? _____

b. Yasmin u na maswiri mavhili. O kovhekana lithini na Ann.

Ho sala furakhisheni ifhio? _____

c. Maria u renga mabaphathi a 5 a tshokoleithi. U divheshela la 1, a fha Mohammed a 2, na khladazi awe a mu fha a 2. Maria u divheshela furakhisheni ifhio? _____

Luvhondo lwa furakhisheni.

Rou inwe na inwe i khethekanywa ya bva zwipida zwi no lingana. Rou ya nga fhasi i khethekanywa ya bva zwa fumimbili ($\frac{1}{12}$).

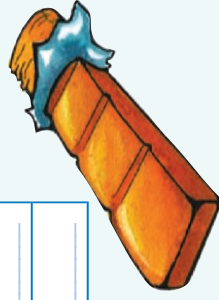
Lebulani dzila dziinwe rou nga furakhisheni dzi re dzone.

Shumisani nula kana lumemetswiti; lwa bammhiri kha u wana uri ndi furakhisheni dzifhio dzi no lingana, khatihiki na u ni thusa u ffindula hedzi mbudziso.

Kha luvhondo lwa furakhisheni, wanani ngila dzo fhambanandho dza u vhumba:

a. hafu nthihi $\frac{1}{2}$	_____
b. nthihi yotlhe (1)	_____
c. kota tharu $\frac{3}{4}$	_____

Iolani! Vhambedzani!
Lulamisani





Dabhi

Furakhisheni dza Thangeramu

Thangeramu ndi phazili ya kale ya Tshitsaina yo itwaho nga zwiwumbeo zwa 7 zwa mabaphatshi, zwiine zwa vhidzwa upfi ndi dzit'henge, zwoth'e zwi vhwela fhetu huthihi uri zwi vhumbe zwiwumbeo zwo fhambananaho.



Furakhisheni kha thangeramu.

	Lavhesani phazili ya thangeramu. Inwe na inwe ya thiraiengele mbili khulwane i ita furakhisheni ifhio ya tshikwea tsho'the? (Dza pinki tshifanjisoni itshi.)	_____
	Aradi na nga peta nthihi ya thiraiengele khulwane ya bva zwipida zwiwihli zwi no lingana. tshipida tshinwe na tshinwe tshi lingana na thiraiengele ya saizi ya vhukati (Ya t'ada tshifanjisoni). Thiraiengele ya vhukati ndi furakhisheni ifhio ya tshikwea tsho'the?	_____
	Aradi na peta thiraiengele ya vhukati ya bva zwipida zwiwihli zwi no lingana. tshipida tshinwe na tshinwe tshi lingana na thiraiengele mbili t'hlukhu. (Dza muvhala muddala tshifanjisoni). Thiraiengele inwe na inwe t'hlukhu ndi furakhisheni ifhio ya tshikwea tsho'the?	_____
	Ni nga kwakwanyisa thiraiengele mbili t'hlukhu uri ni vhumbe tshikwea tshit'uku. Tshikwea tshit'uku ndi furakhisheni ifhio ya tshikwea tsho'the (tshidala tshifanjisoni)?	_____
	Ni nga kwakwanyisa thiraiengele mbili t'hlukhu uri ni vhumbe pharalelogirene. Pharalelogirene ndi furakhisheni ifhio ya tshikwea tsho'the?	_____



U shumisa thangeramu.

Gerani thangeramu kha Tshigeriwa 12 ni riwale furakhisheni ya tshikwea tsho'the ni lebele tshipida tshinwe na tshinwe. (Hezwi ndi zwipida zwa kale na kale/zwa u thomani zwa zwiwumbeo zwa Thangeramu). Nwalani dzina lapu nga murahu ha tshipida tshinwe na tshinwe, u itela uri ni kone u wana zwipida zwapu murahu musi no no f'hedza u tamba.



Mutambo wa furakhisheni wa mikovhe i no lingana.

Tambani na vhatambi vha 4-8 ni tshi shumisa zwipida zwapu zwa thangeramu



1. Vhatambi vha sielsana kha u vha vhangensi.

2. Murengisi ndi ene ane a ta uri muñwe na muñwe wa vhatambi u dzhenisa furakhisheni ifhio ya thangeramu yoth'e kha tshikwama (khithi).

3. Mutambi muñwe na muñwe u a humbulela uri khoini i do wa nga t'hoho naa kana nga mutshila, murengisi a kona u thosa khoini.

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

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

6. Vhatambi vho'the vha a t'ola uri u kovhekana hu khou it'wa nga ndila yone naa.

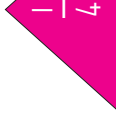
7. Aradi mutambi a nga vhona v'hlukhaki, murengisi u a lat'isiwa nga u badeliswa $\frac{1}{8}$ ya tshikwea tsho'the a tshi badela mutambi we a vha ene wa u thoma u vhona v'hlukhaki.

8. Mutambi ane a si vhe na zwipida a nga t'usa tshithihi kha zwo salaho tshikwamani.

9. Mutambo u a ya phanda u swika mutambi muñwe na muñwe o vha murengisi.



Muñwe na muñwe u tea u dzhenisa koda nthihi ya thangeramu ngomu tshikwamani.



Ndi do dzhenisa thiraiengele nthihi khulwane.

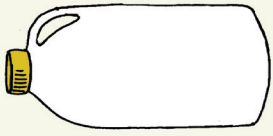


Zwiwihli zwamalo zwi lingana na tshithihi tshaina. Ndi nga kona u dzhenisa tshikwama pharalelogirene.





Shumisani
tshifaredzi tsha
bodelo la pulasitiki
na khaphu.



khaphu nthihi
(250 ml)



tshifaredzi tsha litha ya 1

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

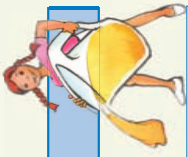
A no ngo tea u bula
dzilitsha kana mlilitsha.
Shumisani fheadzi maipfi a
no ni 'khaphu' na 'bodelo'.



Itani litha.

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

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



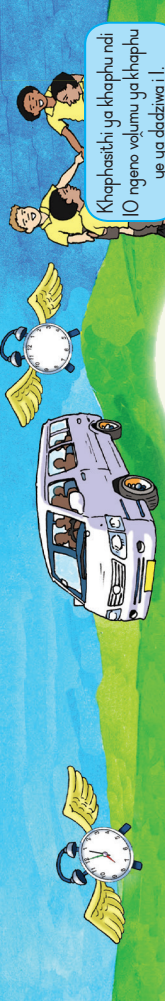
Fhungombalo
= 1000 ml (l l)

Fhungombalo
= 1000 ml (l l)

Fhungombalo
= 1000 ml (l l)

Fhungombalo
= 1000 ml (l l)

Musi ri tshi iwala tswayo dza methiriki, ri sia tshikhala tshizuku vhukati ha didzhitshi ya u
fheadzisela na luswayo. Sa tsumbo ri iwala 3 l hu si 3l; 299 g hu si 299g; 15 km hu si 15km.

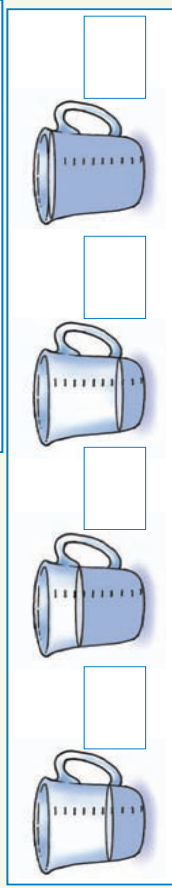


Volumu (vhungomu) ha
khaphu inwe na inwe ye
ya dadziwa ndi ifhio?



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

Khaphasitshi ya khaphu ndi
O ngeno volumu ya khaphu
ye ya dadziwa i l.

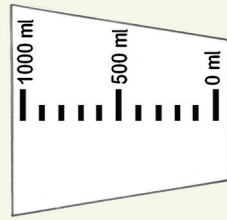


Ri ela muelo wa zwiludi zwiituku nga dzimilitsha (ml).

Khaphu ya muelo wa mishonga i ita 10 ml, i no lingana
na zwiwebula zwiituku zwiwhili.

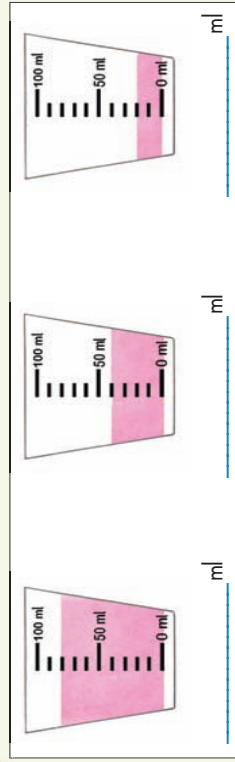
Ri ela mielo minzhi ya zwiludi nga dzilitsha (l).

Hu na mlilitsha dza zwiigisi kha litha nthihi.



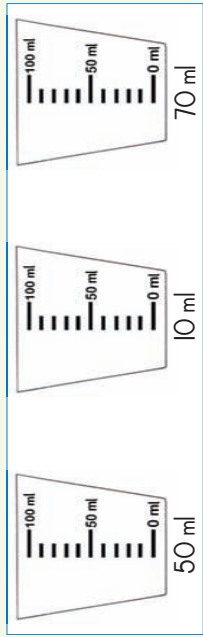
Hu na zwiludi zwingafhani?

Hu na ml nngana dza zwiludi dzhegeni inwe na inwe?



Hu na zwiludi zwingafhani?

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



Pimani ni shele

Mutamboni.

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

a. Ndi vha tambi vhangana vhanne vha nga kovhekana?

Litsha ya 1 _____ Litsha ya 4 _____ Litsha ya $2\frac{1}{2}$ _____

b. Vha toda dzhusi nngafhani ya?

Vhatambi vha 8 _____ Vhatambi vha 9 _____ Vhatambi vha 12 _____

Litsha na mililitsha (ml)

Litsha ya 1 = 1 000 ml $\frac{1}{2}$ ya litsha = _____ ml $\frac{1}{4}$ ya litsha = _____ ml

125 ml = _____ ya litsha 50 ml = _____ ya litsha

Itani hafu ya litsha.

Itani thiki (✓) kha zwiivhalo zwa 3 zwine zwa ita hafu ya litsha.

120 ml	140 ml	160 ml	28 ml	240 ml



Mafhi a ni fha mutakalo!

Kovhelani litsha dza 4:

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



Bara ya Dzhusi ya Vhonani.

Uri a dadze dzhege ya 1. Bongi u shumisa kota nthihi ($\frac{1}{4}$) ya dzhusi na khaphu dza 2 dza maḡi.

Shumani ni wane uri ndi dzhusi na maḡi zwingafhani zwine Vhonani a shumisa kha dzhege dza 5 dza dzhusi.

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



Itani litsha.

50 ml	100 ml	200 ml	250 ml	500 ml

Ndi zwingana zwa tshifar-edzi tshinwe na tshinwe zwine na zwi toda kha u ita litsha?

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



Phathi yo no fhela.

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

Ho sala dzhusi nngafhani ya toda?

Ho sala dzhusi nngafhani ya phephulu? _____

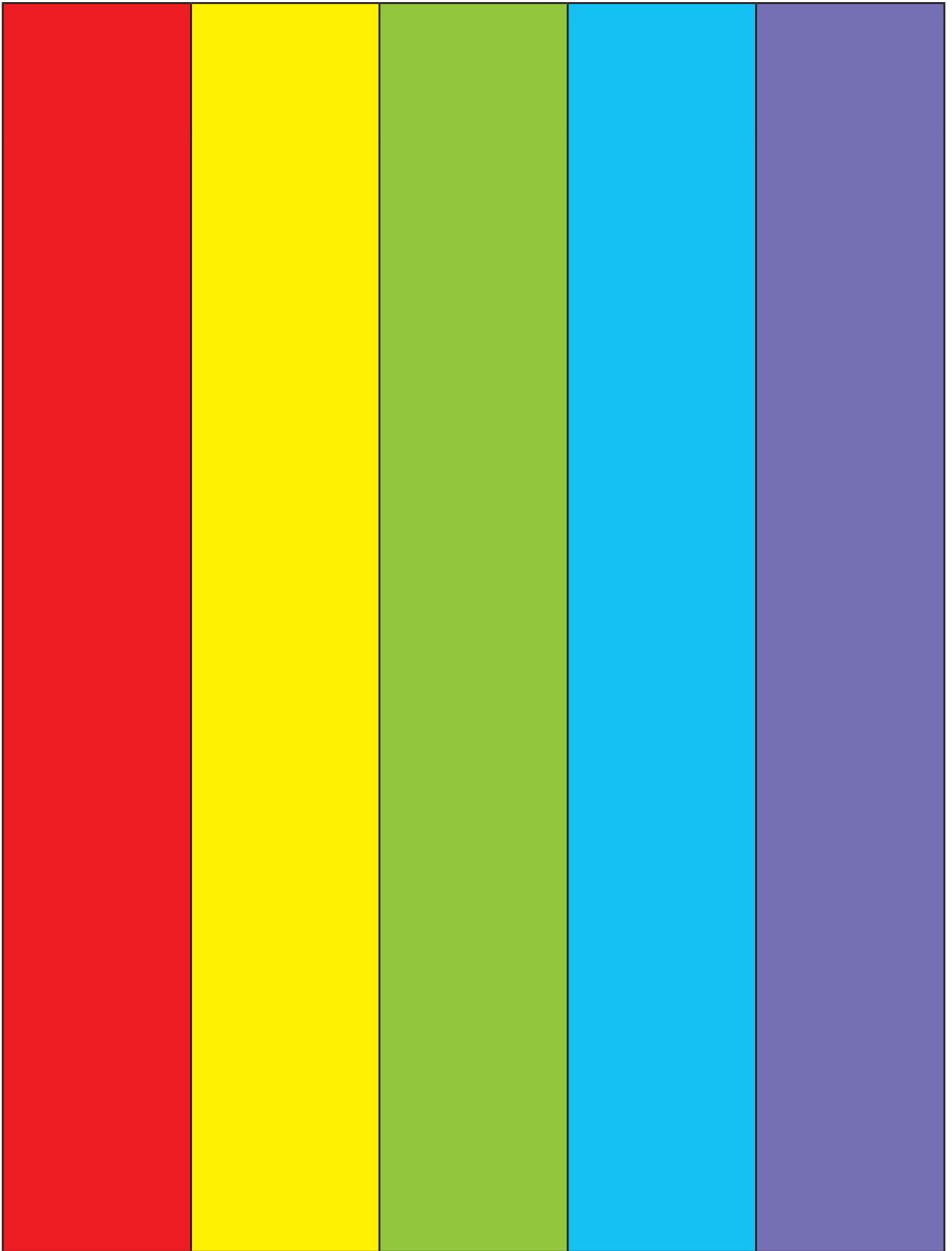
Thandi u tlanganyisa idi dzhusi mbili.

A nga dadza dzhege nngana? _____

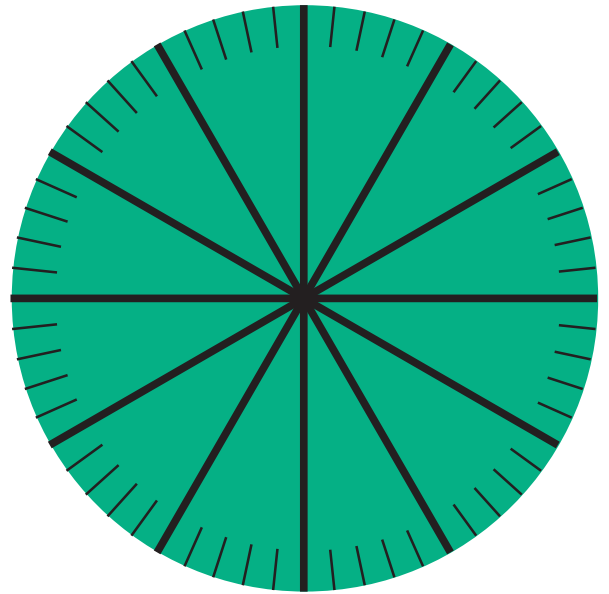
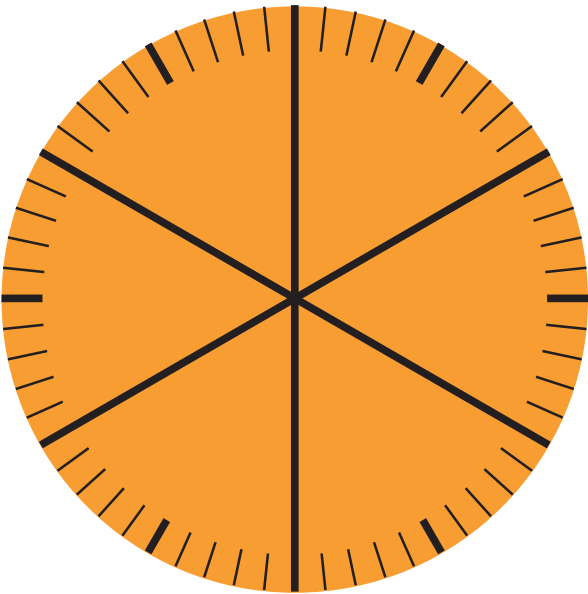
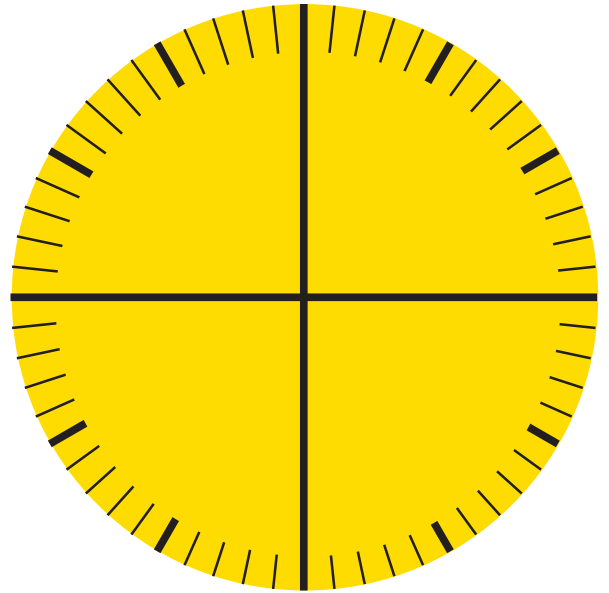
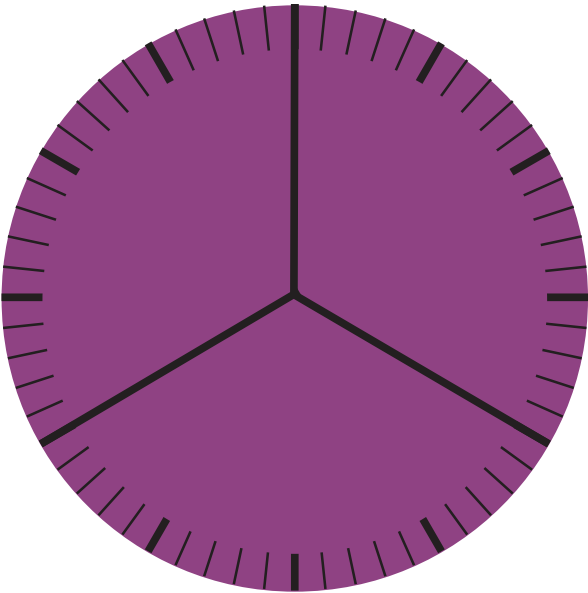
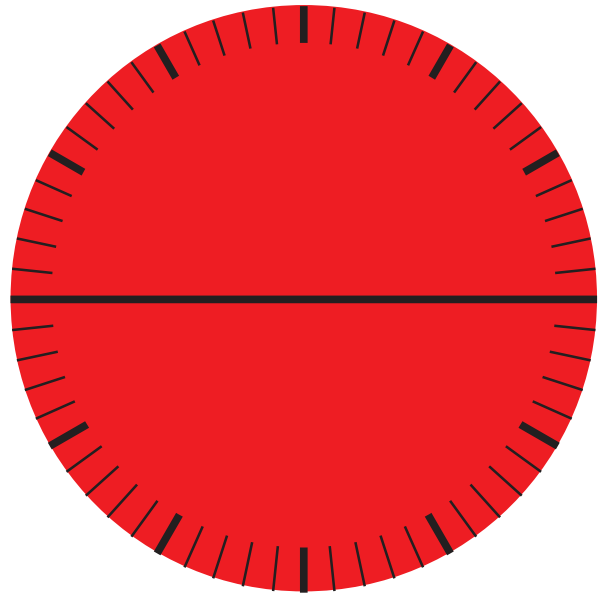
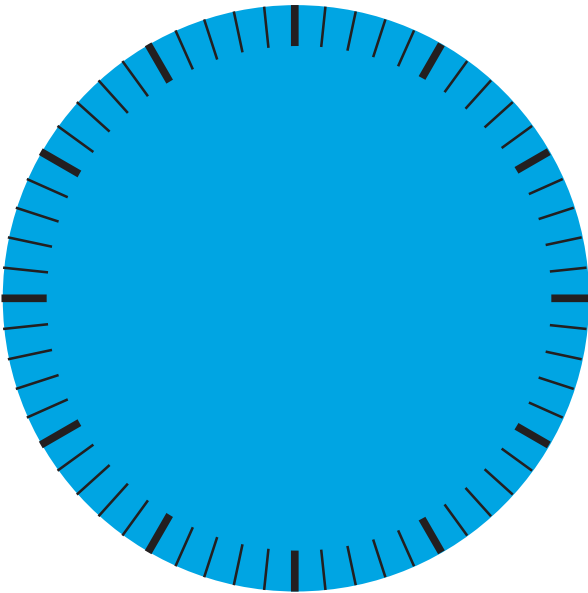


Sedzulusani!
Vhambedzani!
Lulamisa!

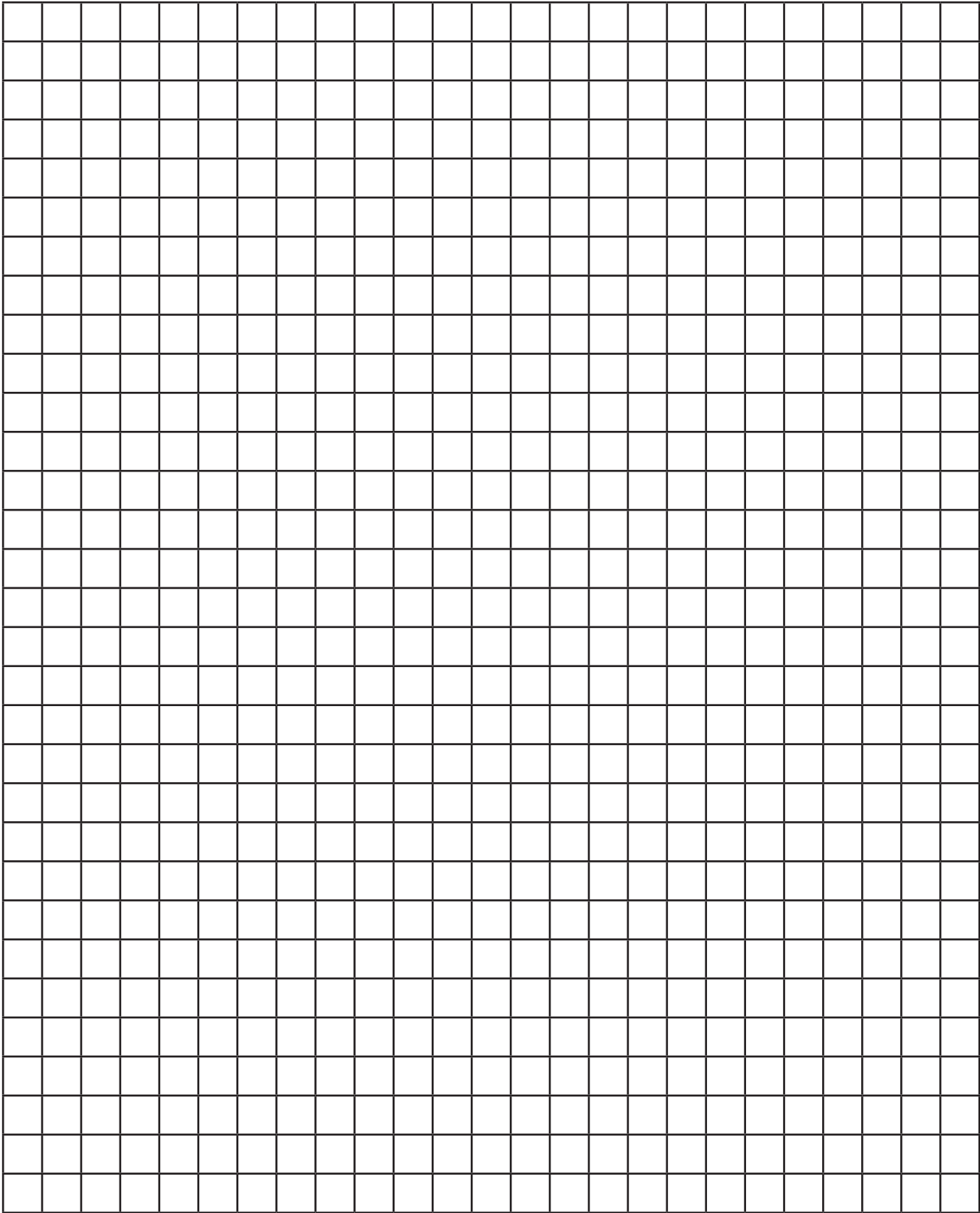
Tshigeriwa 5



Tshigeriwa 6



Tshigeriwa 7



Tshigeriwa 8

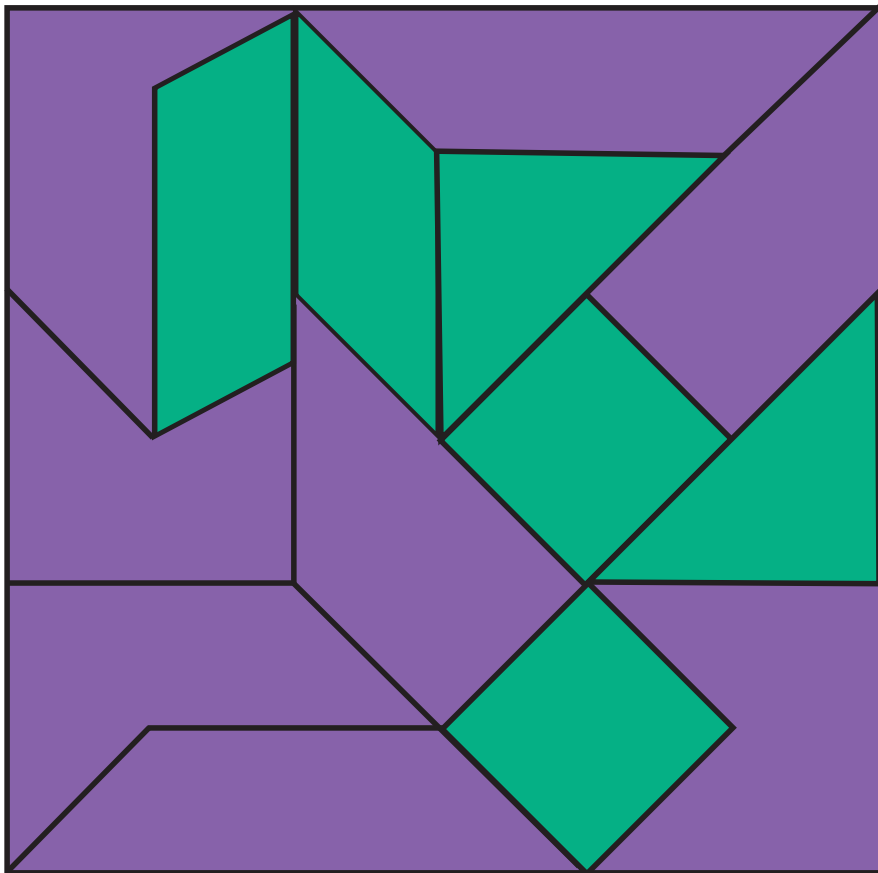
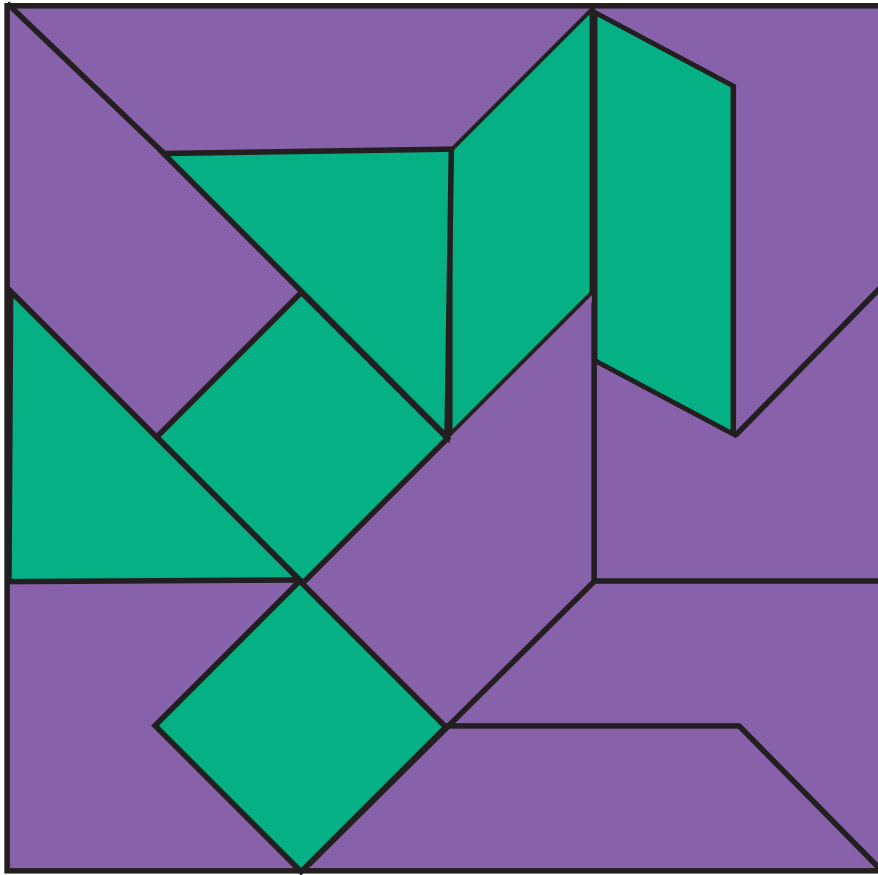
lc	
IOc	
RI _s	
RIO _s	
RIOO _s	

Tshigeriwa 9

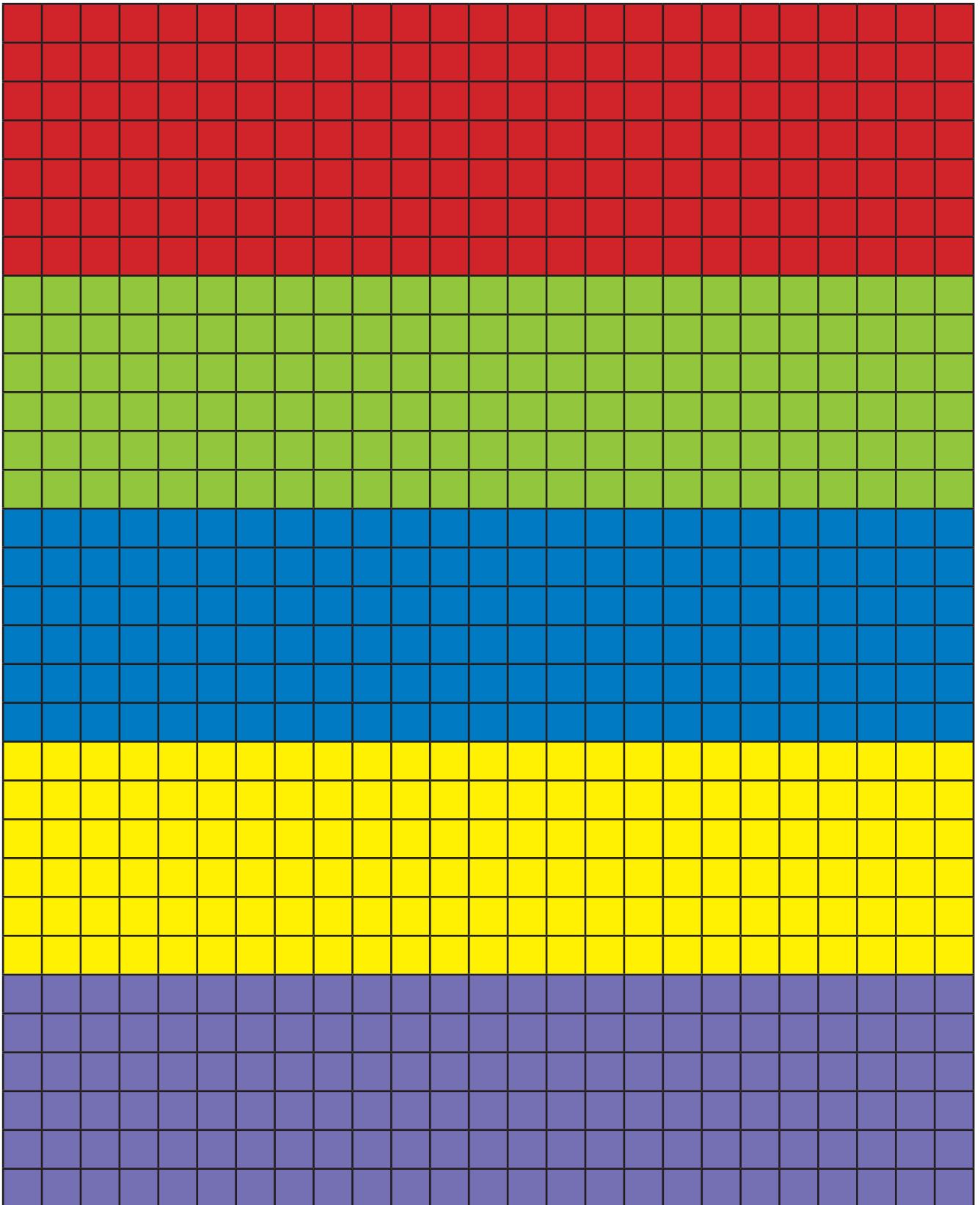
RIOO	RIOO	RIOO	RIOO
RIOO	RIOO	RIOO	RIOO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO

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

Tshigeriwa IO



Cut-out II



Cut-out 12

