

U tšalukanya Mulayotewa (Ndayotewa) wa Riphabuġiki ya Afrika Tshipembe (1996)

Milayo ya nthesa ya shango i wanala kha Mulayotewa (Ndayotewa) wa Riphabuġiki ya Afrika Tshipembe (1996). Milayo iyi i na maanda u fhira na muphuresidennde, maanda ayo a fhira a dzikhothe na a muvhuso wothe.

Ndi milayo ine ya laya vathu vha lino shango uri vha tea u farana nga nqilade. Mulayotewa wa shango wo itelwa u tsireledza rothe ri no khou tshila zwino na vhana vhashu vhane vha kha qo qo.

Talukanyani hune ra bva hone.

Ri songo dovha vhukhaki ha mulovha.

Mulayotewa washu u ri thusa uri ri elekanye nga vhumatshelo ha khwiqe ha rothe khatihi na u vhu fhaa.

Riye, vathu vha Afrika Tshipembe;

Ri dziela ntha u shaa ha vhumukanyi kha tshifhinga tsho fhelaho;

Ri thonifha havho vhe vha tambulela vhumukanyi na mbofholowo kha shango lashu;

Ri thonifha havho vhe vha shuma vha tshi itela u fhaa na u bveledzisa shango lashu; na

U tenda uri Afrika Tshipembe ndi la vhothe vhane vha dzula khalo, vho vhohekanywaho vha vha huthihi naho vha sa fani.

Zwenezwo, nga kha vhaimeleli vho khethiwaho zwavhudi, ri khou tangedza ino Ndayotewa sa wone Mulayo Muhulusa wa Riphabuġiki uri u—

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

Fhaqe mitheo kha demokirasi na tshitshavha tshi re khagala hune muvhuso wo disendeka kha lufuno lwa vathu nahone vhadzulapo

vho tsireledzwa nga mulayo nga ndila I lingano;

Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhothe na u vhofoholola vhuconi ha muthu muwe na muwe; na

Fhaa mbumbano na demokirasi zwa Afrika Tshipembe uri i kone u vha fhethu ho teho sa muvhuso wo gliimisaho kha mufa wa tshaka.

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

Divhani Mulayotibe Wa Pfanelo na Mulayotibe Wa Vhuqifhindleli.

Mudzimu tsireledza vathu vhashu.

Nkosi Sikelel' i Afrika. Morena boloka setjhaba sa heso.

God seën Suid-Afrika. God bless South Africa.

Hosi katekisa Afrika.

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MATHEMATICS IN TSHIVENDA
GRADE 3 – BOOK 2

TERMS 3 & 4

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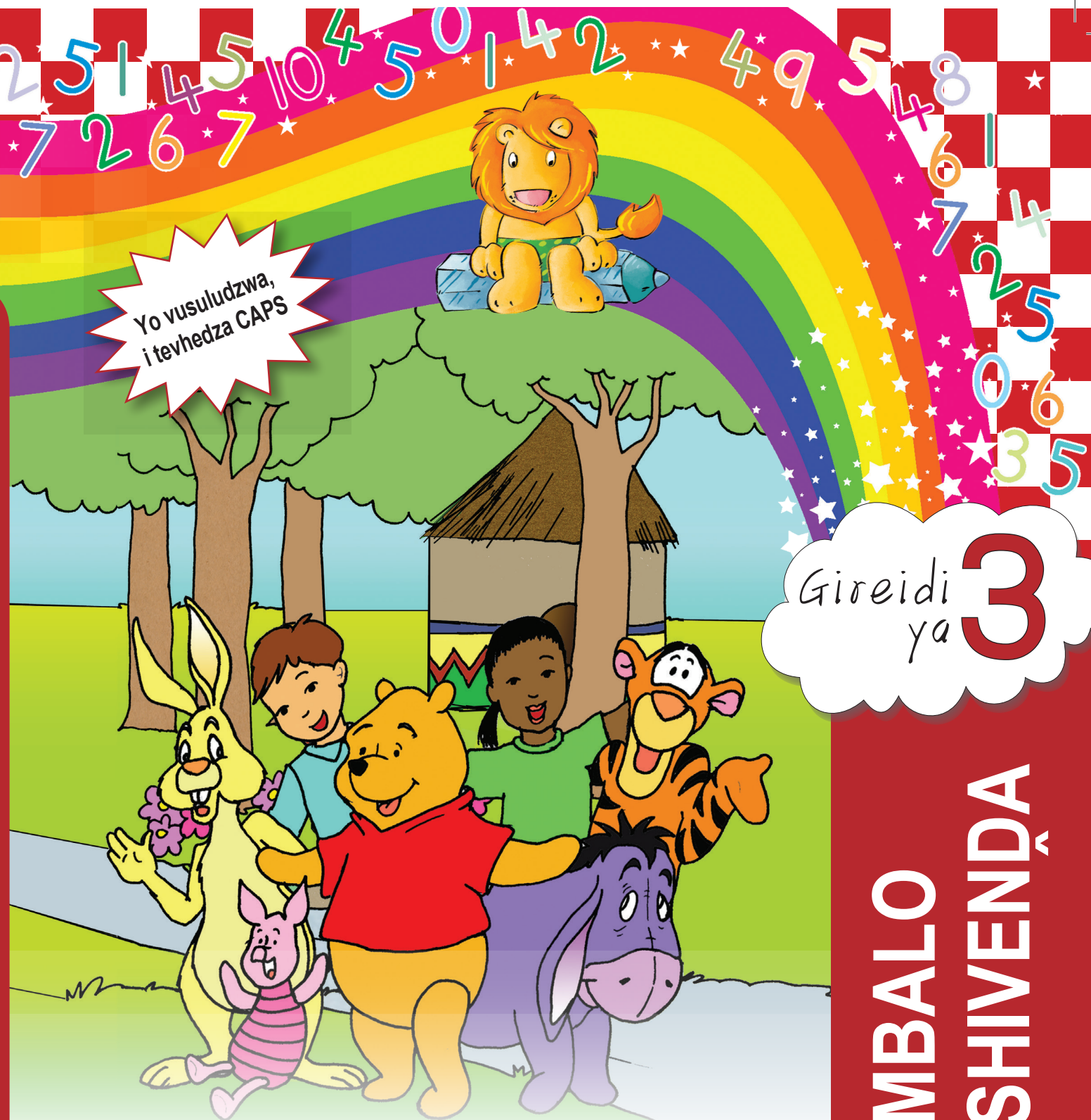
3

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DIVHAMBALO
NGA TSHIVENDA

Bugu ya 2

Themo 3 & 4

Zwi re ngomu



No	Ihoho	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
76	Phetheni dza nomboro: u bva kha mahumi u swika kha 800	24
77	U sendedza tsini zwa vha mahumi	26
78	Mutanganyo: thanu u swika kha 75	28
79	Phetheni dza nomboro: u bva kha thanu u ya kha 800	30
80	Tshifhinga tsha masiari na tshifhinga tsha vhusiku	32
81	Muandiso: mbili u swika kha 75	34
82	Phetheni dza nomboro: mbilimbili (dzi2) u swika kha 800	36
83	Muandiso: dzi2 na dzi5 u swika kha 75	38
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
88	Phetheni dza nomboro u swika kha 800	48
89	Muandiso na mukovho: dzi2, dzi3 na dzi5 u swika kha 75	50
90	Mbonalo dza zwithu zwa 3-D	52
91	Khithi ya zwibambiri zwa furakhisheni	54
92	Furakhisheni dziinwe hafhu	56
93	U kovhekanya zwi tshi livha kha furakhisheni	58
94	Muelo ri tshi mona	60
95a	U renga tshede	62
95b	Kha ri ye mavhengeleni!	64
96	Zwiinwe hafhu nga data	66
97	U shuma nga senthimita	68
98	Nomboro 700 u swika kha 800	70
99	Nomboro dziinwe hafhu 700 u swika kha 800	72
100	Nomboro 800 u swika kha 900	74
101	Nomboro dziinwe hafhu 800 u swika kha 900	76
102a	U kala zwithu	78
102b	Kha ri kale hafhu	80

No	Ihoho	Saitari
103	Nomboro 900 u swika kha 1 000	82
104	Nomboro dziinwe hafhu 900 u swika kha 1 000	84
105	Mutanganyo na mutuso u swika kha 999	86
106	Hayani	88
107	U shuma nga tshede	90
108	Mutanganyo na mutuso u swika kha 999 hafhu	92
109	Mutanganyo na mutuso u swika kha 999 hafhu	94
110	Phazili (khanganyisa) dza mielo	96
111	Phetheni dza nomboro: mahumi u swika kha 900	98
112	Sendedzani kha 10 ya tsinisa	100
113	Muandiso na mukovho: u swika kha 100	102
114	Phetheni dza nomboro: thanu u swika kha 1 000	104
115	Zwiinwe hafhu nga Simethiri (Ndinganahuvhili)	106
116	Phetheni dza nomboro: mbili u swika kha 900	108
117	Muandiso na mukovho: mbilimbili (dzimbili) u swika kha 100	110
118	Muandiso na mukovho: tharutharu (dziraru) u swika kha 100	112
119	Phetheni dza nomboro: tharu u swika kha 1 000	114
120	Muandiso na mukovho: dziina u swika kha 100	116
121	Phetheni dza nomboro: nganana (dziina) u swika kha 1 000	118
122	Zwipida zwi no lingana zwa yotthe	120
123	Mbalo dza furakhisheni	122
124	Zwithu zwa 3-D	124
125	Furakhisheni hafhu	126
126	U vhea nga zwigwada na u kovhana hafhu	128
127	Furakhisheni dza Thangeramu	130
128a	U ela khaphasithi (ngalo)	132
128b	Pimani ni shele	134
	Tshigeriwa 5	
	Tshigeriwa 6	
	Tshigeriwa 7	
	Tshigeriwa 8	
	Tshigeriwa 9	
	Tshigeriwa 10	



Vho Siviwe Gwarube
Minista wa Muhasho wa
Pfunzo ya Muteo



Vho Dr. Reginah Mhaule
Muthusaminista wa
Pfunzo ya Muteo

Bugu idzi dza u shumela dzo bveledzwa u itela uri dzi shumiswe nga vhagudi vha Afurika Tshipembe nga fhasi ha vhangaphanda ha Minisita wa Pfunzo ya Muteo, mufumakadzi Vho Siviwe Gwarube na Muthusaminista wa Pfunzo ya Muteo, Vho Dr. Reginah Mhaule.

Bugu dza u shumela dza Rainbow dzi vhumba tshipida tsha mbekanyamushumo dza vhudzheneleli dza Muhasho wa Pfunzo ya Muteo wo livhiswaho kha u khwinisa kushumele kwa vhagudi vha Afurika Tshipembe kha gireidi dza rathi dza u thoma. Sa tshinwe tsha zwithu zwa nthesa zwa Pulanetshumisi ya Muvhuso, thandela iyi yo itwa uri i vhe hone nga thusedzo ya masheleni ya Muhasho wa Gwama. Izwi zwo ita uri muhasho u kone u bveledza idzi bugu dza u shumela kha nyambo dzothe dza tshiofisi hu si na mbadelo. Ri fulufhela uri vhadededzi vha do vhona ndeme ya bugu idzi kha u funza havho ha duvha linwe na linwe vha dovha vha ita uri vhagudi vha kone u khunyeledza kharikhulamu yotthe. Ro lingedza nga ndila dzothe u sumbedza vhagudisi kha nyito inwe na inwe nga u dzhenisa aikhoni dzine dza sumbedza zwine vhagudi vha fanela u ita. Ri na fulufhelo lothe la uri vhagudi vha do diphina nga u shuma nga idzi bugu musi vha tshi khou aluwa na u guda, na uri vhone sa vhadededzi vha do vha na mukovhe kha dakalo ili. Ri ri kha vhone na vhagudi vhavho, ngavhe zwi tshi vha nakela musi vha tshi shumisa bugu idzi. Zwi pfumbe.

Gireidi ya **3**



Heyi bugu ndi ya:



TSHIVENĐA

Bugu ya

2

65

Deithi:

Nomboro 500 u swika kha 600

Themo ya 3



Vhalani ni n'wale.

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

500

600

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

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

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

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

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

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

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

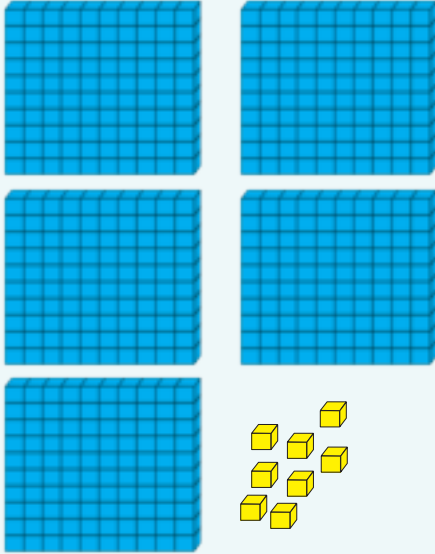
548; _____; _____; _____; _____; _____; _____; _____; _____; _____; 570

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

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



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

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:

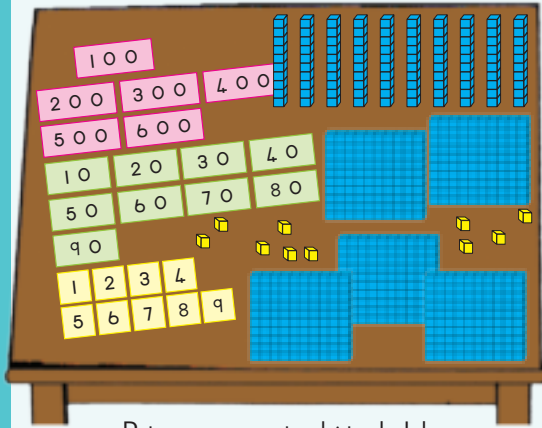
11 12 13 14 15 16 17 18 19 20

66

Deithi:

Nomboro dza 500 u swika kha 600 hafhu

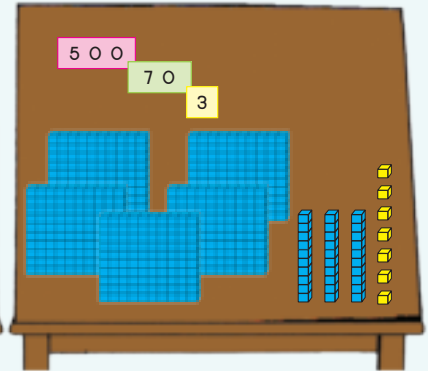
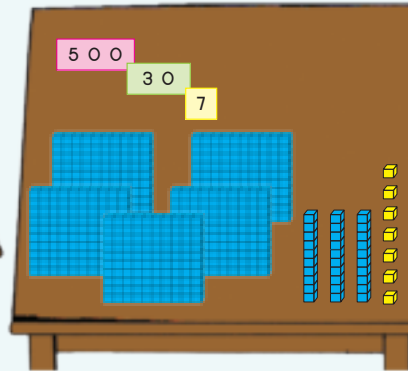
Themo ya 3



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?



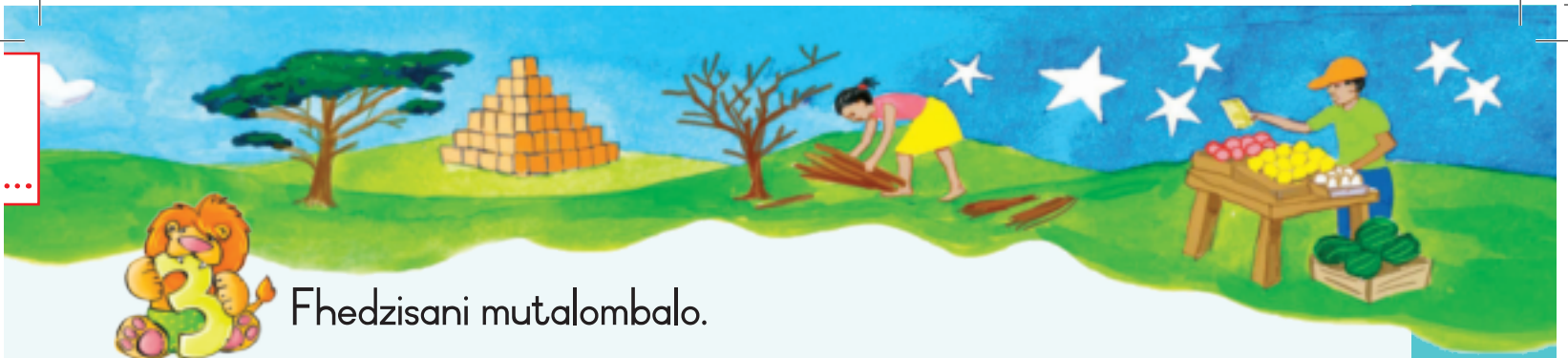
Nwalani fhungombalo ni tevhedze nga phindulo.

$500 + 10 + 7 =$	517	



Nwalani fhungombalo ni tevhedze nga phindulo.

$500 + 70 + 3$		
$=$		



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

500
10
7
517

517 500 + 10 + 7



Nwalani madzina a mbalo.

221	
486	
369	
419	
491	



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

67

Deithi:

Nomboro 600 u swika kha 700

Themo ya 3



Vhalani ni riwale.

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

600

700

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

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

- c. Nwalani nomboro dza 10 dzi no tevhela 600.

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

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

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

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

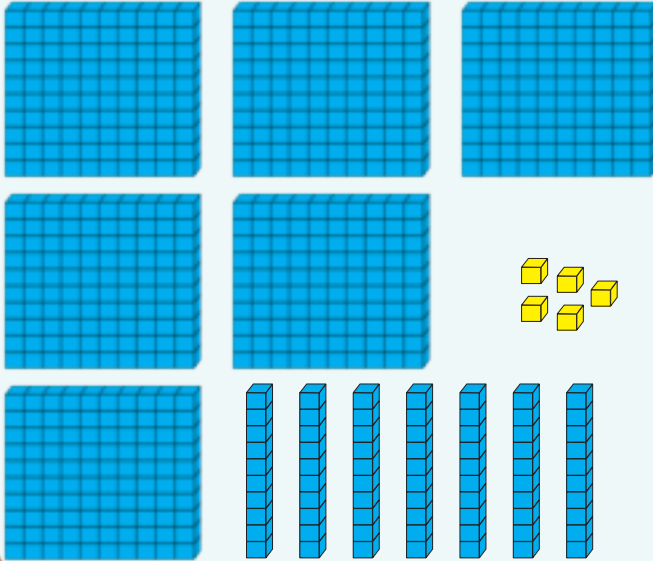
611; _____; _____; _____; _____; _____; _____; _____; _____; 633

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

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



Ni kona u vhalala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

640			643				647		649	
							687	688	689	
					602	604	606			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

631	
-----	--



Teacher: _____

Sign: _____

Date: _____

11 12 13 14 15 16 17 18 19 20

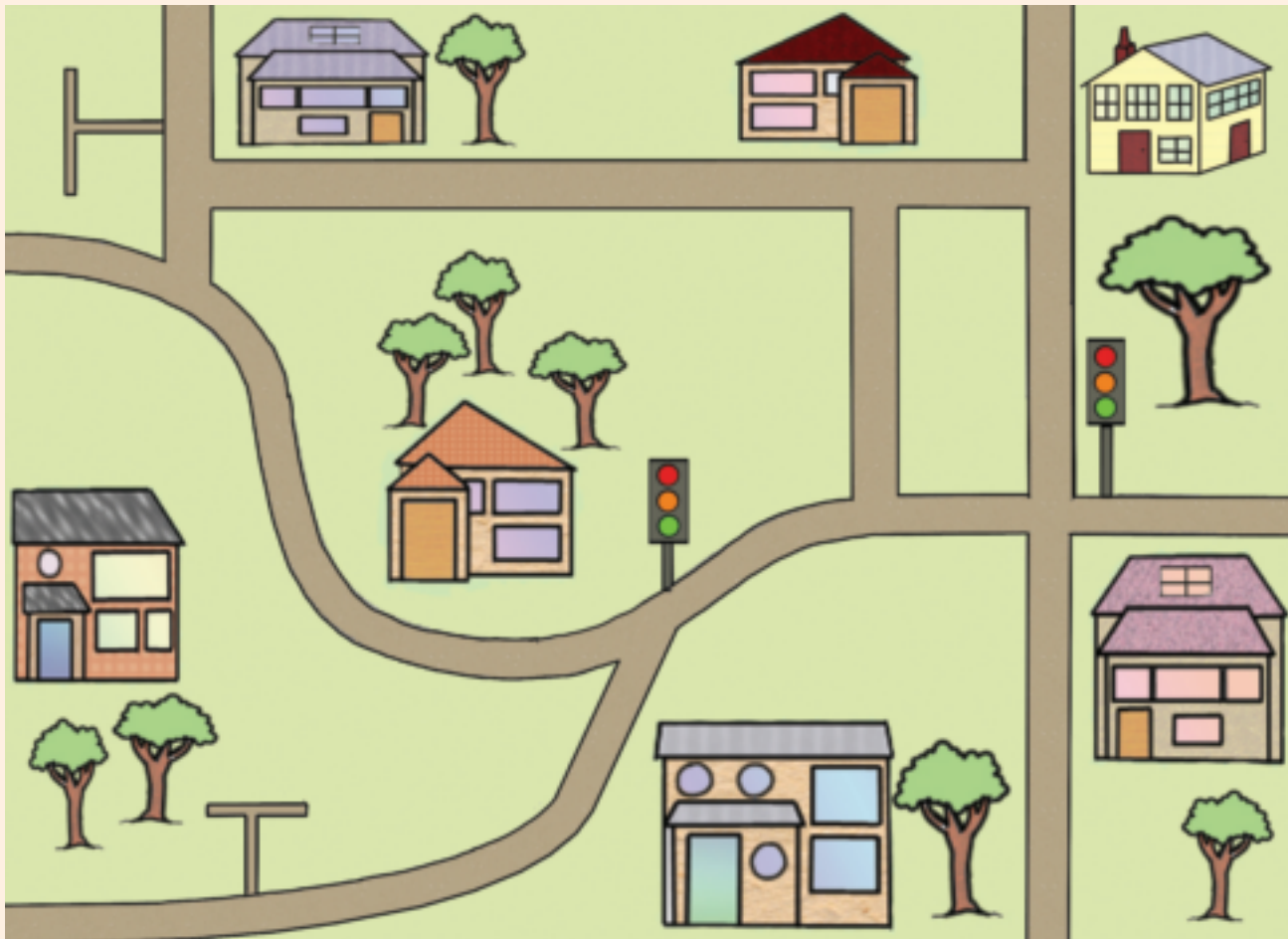


Mushumo wa mepe

Themo ya 3

Lavhelesani tshifanyiso.

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



Olani zwi tevhelaho kha mepe:

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



Shumisani mepe u re kha siatari lo
fhiraho kha u laedza khonani dzaṇu ngila vha tshi bva:

a. kiliniki vha tshi ya tshititshi tsha mapholisa.

b. tshikoloni vha tshi ya kiliniki.

c. tshikoloni vha tshi ya mavhengeleni.

d. mavhengeleni vha tshi ya laiburari.

e. laiburari vha tshi ya tshikoloni.

f. sibadela (vhuongeloni) vha tshi ya tshikoloni.



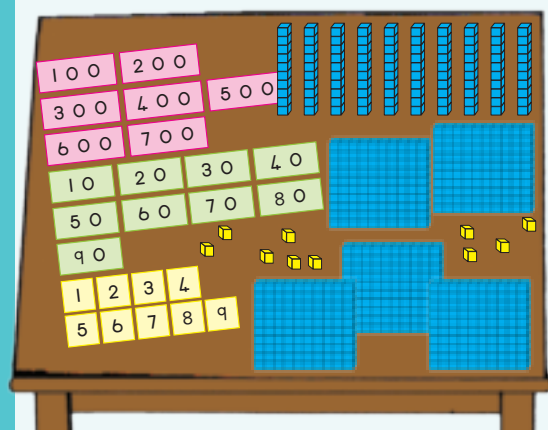
11 12 13 14 15 16 17 18 19 20

69

Deithi:

Nomboro 600 u swika kha 700 hafhu

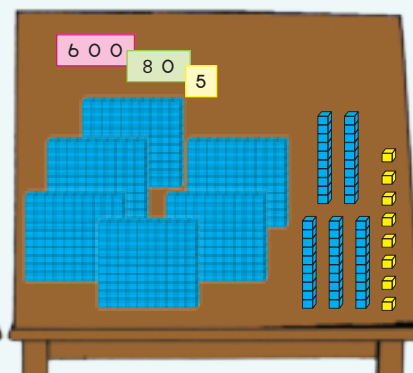
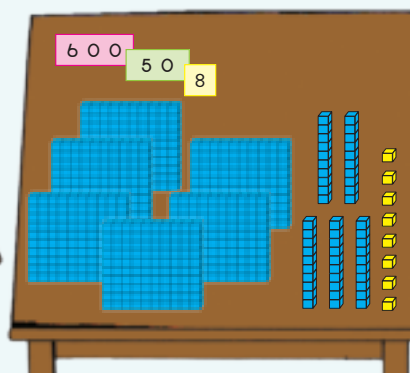
Themo ya 3



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.

$$600 + 30 + 7 = 637$$

$$\quad + \quad = \quad$$

$$\quad + \quad = \quad$$



Nwalani fhungombalo ni tevhedze nga phindulo.

$$600 + 90 + 8 =$$

$$\quad + \quad =$$

$$\quad + \quad =$$



Fhedzisani mutalombalo.

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

Nwalani nomboro dzotlhe dzi re tshukhu 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 magarata 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: _____

70

Deithi:

Nomboro 650 u swika kha 750

Themo ya 3



Vhalani ni n'wale.

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

650

750

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

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

- c. N'walani nomboro dza 10 dzi no tevhela 650.

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

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

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

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

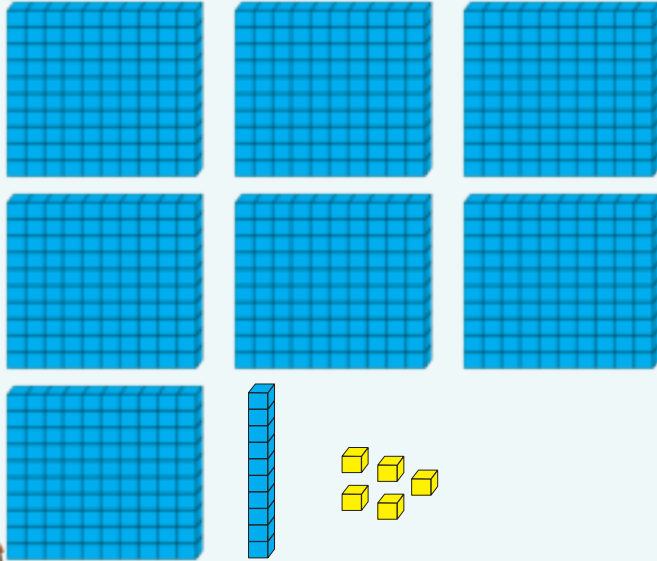
719; _____; _____; _____; _____; _____; _____; _____; _____; 749

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

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



Ni kona u vhala zwibuloko zwingana?



Zwibuloko izwi no zwi vhalisa hani?



Fhedzisani mitalombalo.

700			703				707		709	
							746	747	748	
					706	711	716			



Fhedzisani thebulu.

Nwalani u bva kha tshukhusa u ya kha khulwanesa

Nwalani u bva kha khulwanesa u ya kha tshukhusa

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



Nwalani zwi tevhelaho nga maipfi.

706



Teacher:

Sign:

Date:

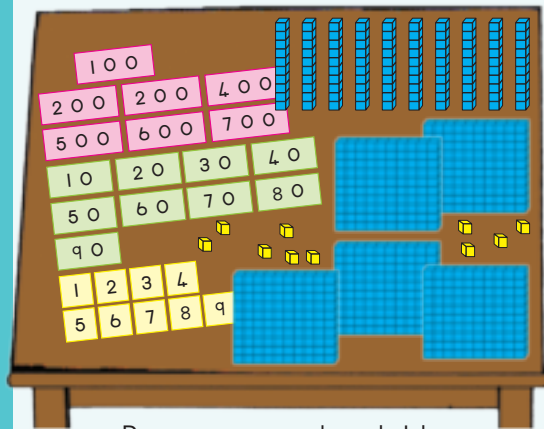
11 12 13 14 15 16 17 18 19 20

71

Deithi:

Nomboro 700 u swika kha 750

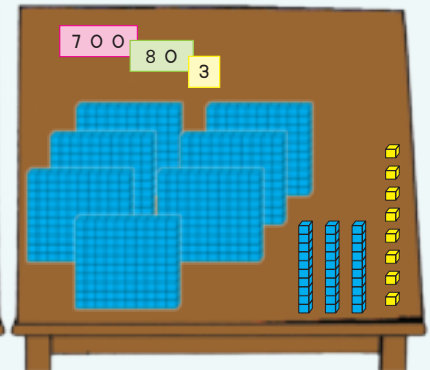
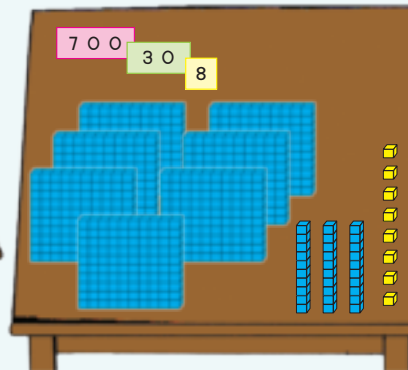
Themo ya 3



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

Mudededzi vha humbela 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.

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



Fhedzisani mutalombalo.

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

Mpheni nomboro dzotlhe dzi re thukhu kha 704. _____

Mpheni nomboro dzotlhe dzi re khulwane kha 704. _____



Dzhenisani $< \text{kana} > =$

a. 750 _____ 749 b. 732 _____ 723

c. $700 + 40 + 9$ _____ 749



Paḍukanyani nomboro yaṇu.

a. Fhatani nomboro inwe na inwe nga magarata ṇu.

b. Nwalani velu ya didzhiti inwe na inwe. Zwino itani hezwi: Paḍukanyani nomboro ṇu.

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	

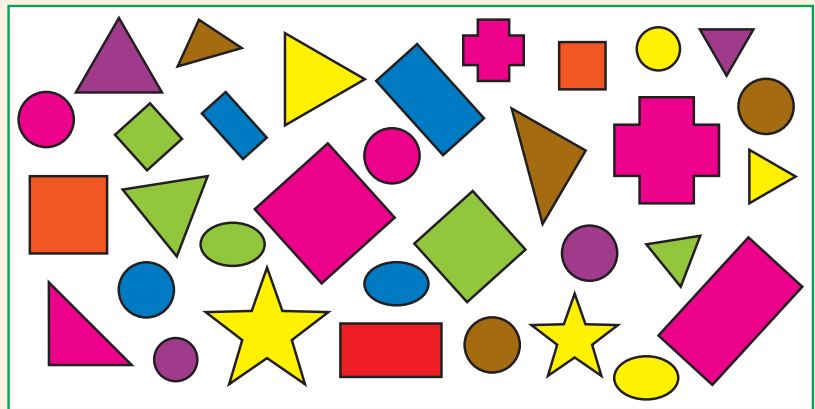


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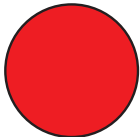
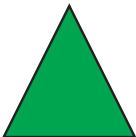
Zwivhumbeo wa 2-D

Themo ya 4

Bulani uri tshivhumbeo tshi na lurumbutswititi kana lwo kutaho naa.



Bulani uri tshivhumbeo tshi na vhurumbuswititi kana dza zwipulumbu naa.



Ni nga ola zwivhumbeo zwingana zwi re na vhurumbuswititi.



Wanani zwifanyiso.

Wanani zwivhumbeo zwi re na memetswititi ni dzi nambatedze hafha.

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

--	--



Fhedzisani zwi tevhelaho:

	Olani tshivhumbeo tshi kha zwiimo zwo f'hambananaho.
tthiraiengele	
rekthiengele	
tshikwea	



Fhedzisani thebulu:

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



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

Zwi nambatedzeni hafha:



Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

Mutanganyo na mutuso u swika kha 800

Themo ya 3



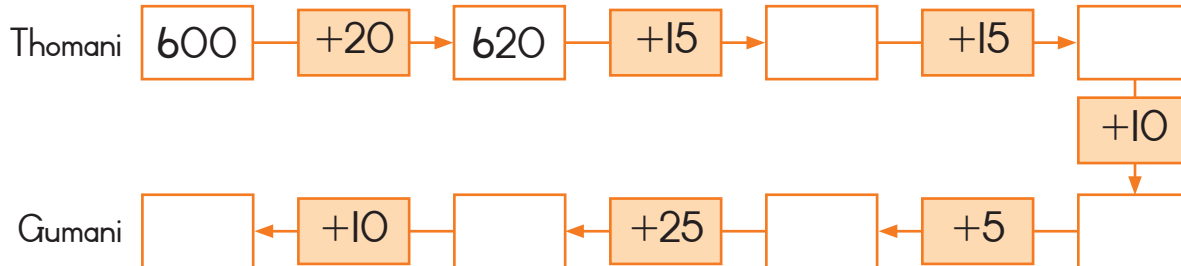
Ndi nga renga mini nga R500?

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



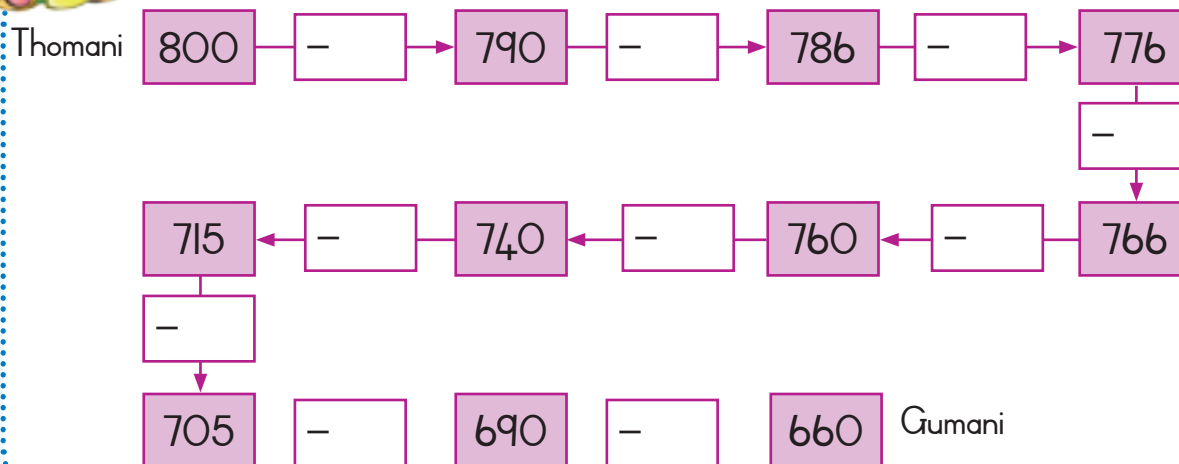
Tanganyani ni tshi ya phanda u bva kha 600.

Nwalani nomboro dzi no khou tahela.



Vhalani ni tshi humela murahu u bva kha 800.

Nwalani "tshintshi" hothe.





Tandululani zwi tevhelaho:

$$725 + 53 =$$

$$664 + 87 =$$

$$564 + 132 =$$

$$75 + 717 =$$



Tandululani zwi tevhelaho:

James o kuvhanganya mimavhulu ya 525.

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

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

- a.
- b.



74

Deithi:

Mutanganyo na mutuso hafhu u swika kha 800

Themo ya 3

Miṭa ya nomboro.

Ri a kona u fhaṭa miṭa ya nomboro.

Muṭa muṇwe na muṇwe u na nomboro mbili khulwane na nthihi ṭhukhu.

Tsumbo ndi ya 4, 8 na 12.

$$4 + 8 = 12$$

$$8 + 4 = 12$$

$$12 - 8 = 4$$

$$12 - 4 = 8$$



Wanani miṭa ya nomboro.

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

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



Sedzani vhushaka.

Kha nyito iyi ri do topola phatheni.

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



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

$$746 - 328$$

$$800 - 499$$



75

Deithi:

Mutanganyo na mutuso u swika kha 800 hafhu

Themo ya 3



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

Tsumbo: Vhumbani 17

5 12 17



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

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

8 9 17



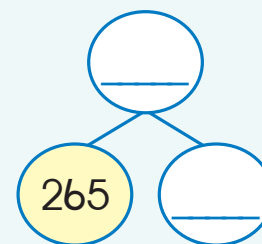
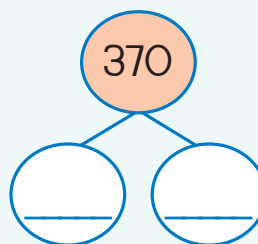
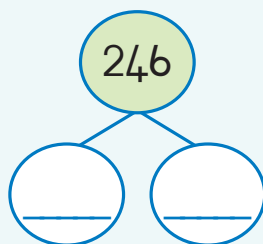
Tolani!
Vhambedzani!
Lulamisani!

Ni tshi itela nomboro inwe na inwe i re afho fhasi, nangani dza 2 ni fhat'e mut'a.
Nwalani mafhungombalo mana (mavhili a + na mavhili a -) kha mut'a muñwe na muñwe wa nomboro.

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



Tolani! Vhambedzani!
Lulamisani!





U hafulela u 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 zwibulokozwifhati. Ndi vhangana vhe vha fhiwa zwibulokozwifhati.

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



76

Deithi:

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

Themo ya 3



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

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

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

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

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



Fhedzisani mafhungombalo.

720; 730; 740; _____; _____; _____

800; 790; 780; _____; _____; _____



Tanganyani kana ni tuse fumi.

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

a. $767 + 10 = 777$

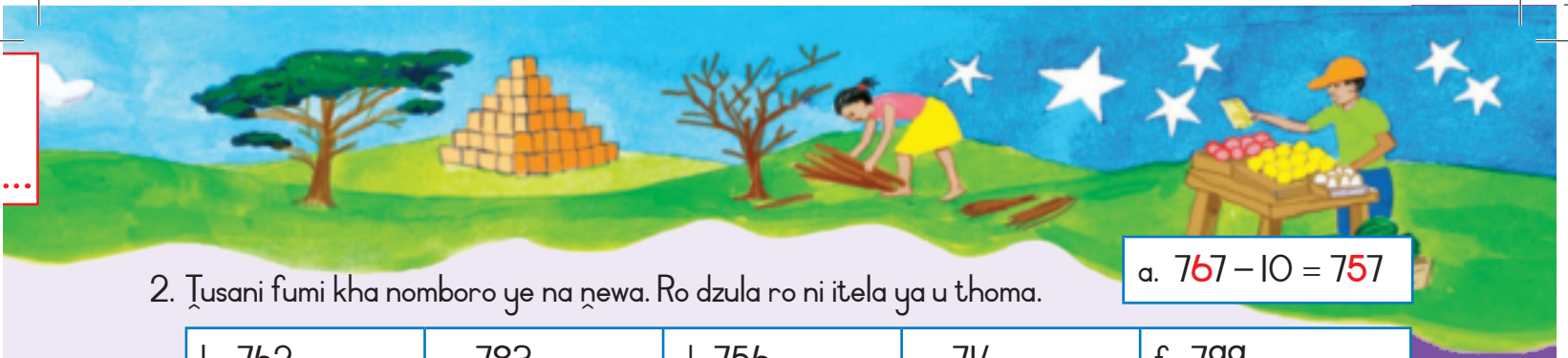
b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____



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

a. $767 - 10 = 757$

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

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



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo ya nomboro.

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

b. Tharamudzani thevhekano ya nomboro dzi

tevhelelaho:

799; 789; 779; _____; _____; _____

704; 714; 724; _____; _____; _____

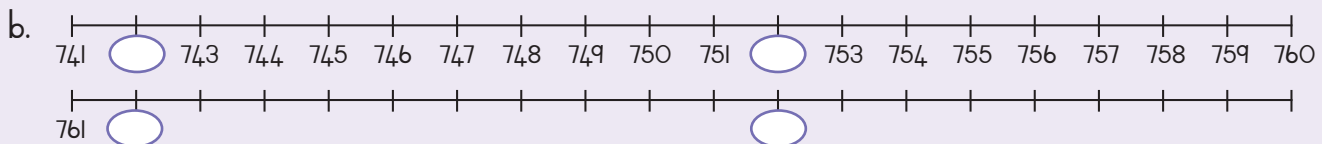
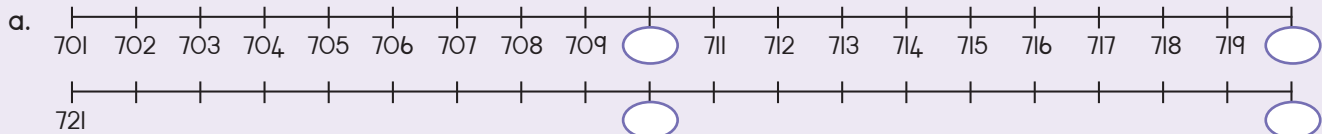
782; 772; 762; _____; _____; _____

715; 725; 735; _____; _____; _____

737; 747; 757; _____; _____; _____



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



Ndi na nomboro ya didzhiti dza 3.

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

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



Teacher: _____
Sign: _____
Date: _____

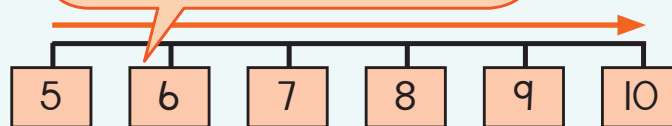
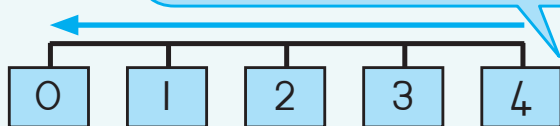
11 12 13 14 15 16 17 18 19 20

U sendedza tsini zwa vha mahumi

Themo ya 3

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

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

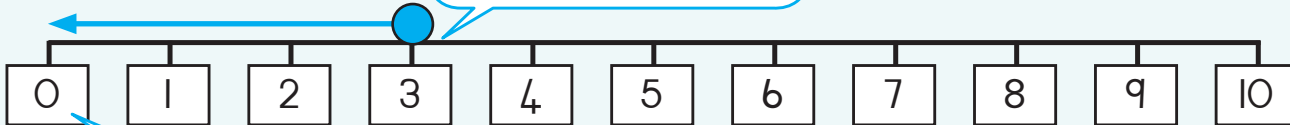


Kha ri ambe

Lavhelesani 3 kha mutalombalo.



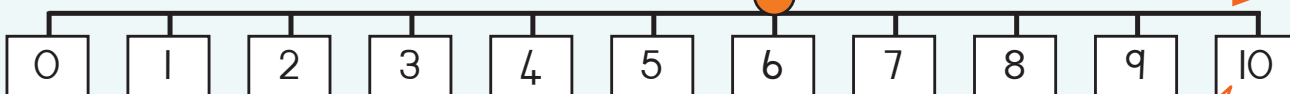
3 i go vha mini musi yo sendedzwa tsini?



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

Itani zwi no fana (zwenezwo) kha:

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



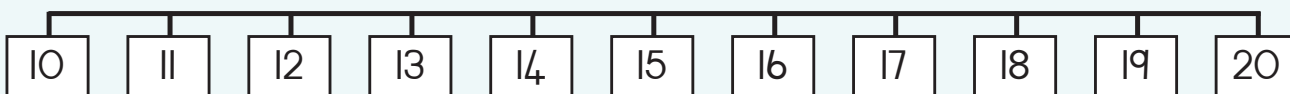
Phindulo i go vha 10.



Sendedzani tsini na 10 ya tsinisa.

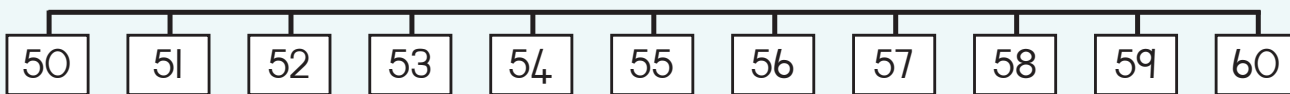
12 yo sendedzwa tsini ndi? _____

19 yo sendedzwa tsini ndi? _____



53 yo sendedzwa tsini ndi? _____

58 yo sendedzwa tsini ndi? _____





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

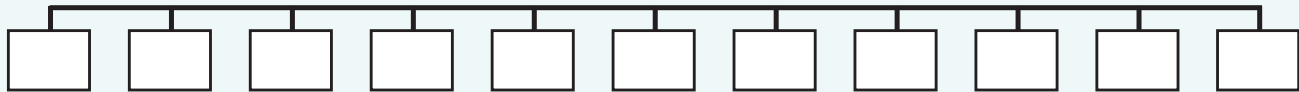
a. 46

46 i vhukati ha fumi nngana mbili?



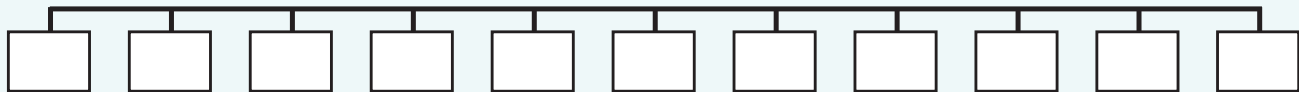
b. 63

63 i vhukati ha fumi nngana mbili?



c. 37

37 i vhukati ha fumi nngana mbili?



d. 99

99 i vhukati ha fumi nngana mbili?



Tom u na R48,00.



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

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



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Mutanganyo: ṭhanu u swika kha 75

Themo ya 3

Ndi zwifhio zwi re
zwiṭanuzwiṭanu?

Minwe ya tshanda
tshithihi.



Hu na minwe mingana
kha:

zwanda zwa 2?

zwanda zwa 3?

zwanda zwa 4?

zwanda zwa 5?

zwanda zwa 6?

zwanda zwa 7?

zwanda zwa 8?

zwanda zwa 9?

zwanda zwa 10?

Livhanyani mbalo na
mbudziso dzi re kha tsha
monde:

$$9 \times 5 = 45$$

$$7 \times 5 = 35$$

$$2 \times 5 = 10$$

$$4 \times 5 = 20$$

$$3 \times 5 = 15$$

$$5 \times 5 = 25$$

$$10 \times 5 = 50$$

$$6 \times 5 = 30$$

$$8 \times 5 = 40$$



Fhedzisani thebulu.

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



Fhedzisani thebulu.

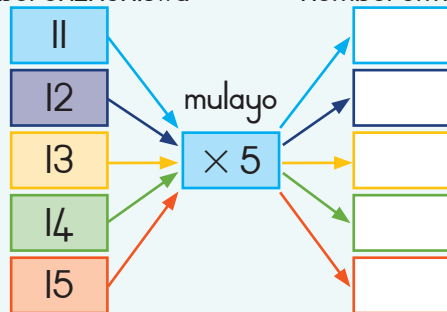
U kovhela	Kovhani
Kovhelani 12 kha vha 5	$12 \div 5 = 2$ ha sala 2
Kovhelani 64 kha vha 5	
Kovhelani 39 kha vha 5	
Kovhelani 73 kha vha 5	



Fhedzisani nyolo dza muelo.

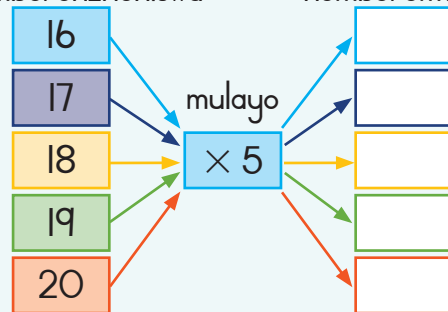
nomboronzheniswa

nomboromviswa



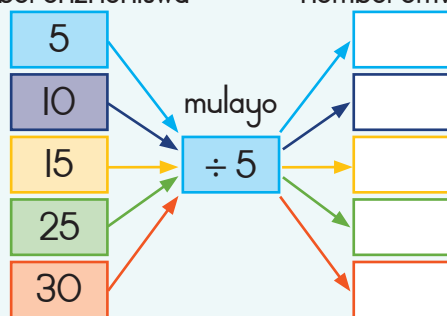
nomboronzheniswa

nomboromviswa



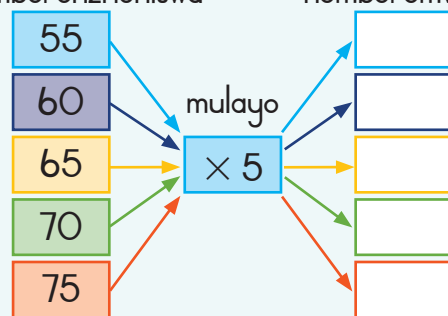
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebuḽu dzi re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
5										

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

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



Tandululani zwi tevhelaho:

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



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

79

Deithi:

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

Themo ya 3



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

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

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

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

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



Fhedzisani mafhungombalo.

725; 730; 735; _____; _____; _____

800; 795; 790; _____; _____; _____



Tanganyani kana ni t̃use t̃hanu.

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

a. $760 + 5 = 765$

b. 725 _____

c. 780 _____

d. 755 _____

e. 715 _____

f. 790 _____



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

a. $765 - 5 = 760$

b. 760

c. 785

d. 750

e. 715

f. 790

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



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo a nomboro.

a. Ndi zwifhio zwine na vhona kha zwitendeledzi izwi?

b. Tharamudzani thevhekano ya nomboro dzi tevhelelaho:

703; 708; 713; ; ;

753; 758; 763; ; ;

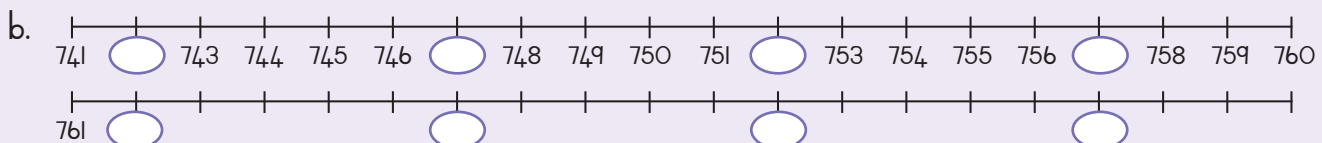
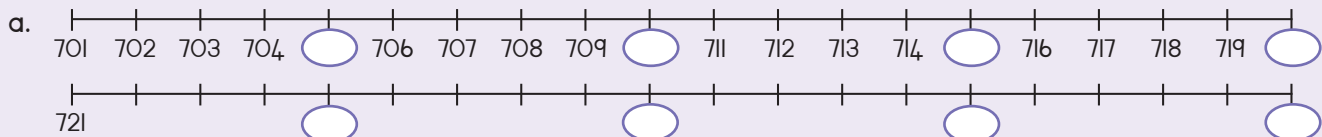
701; 706; 711; ; ;

722; 727; 732; ; ;

714; 719; 724; ; ;



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



Ndi na nomboro ya didzhiti dza 3.

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

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

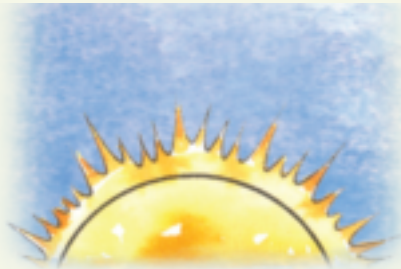


Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

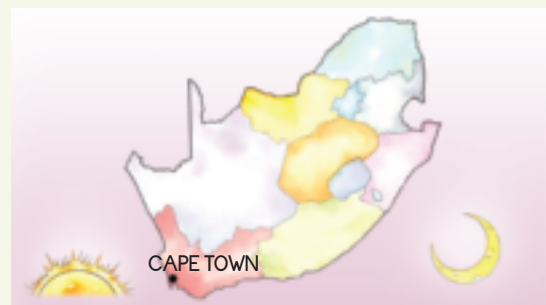
Tshifhinga tsha masiari na tshifhinga tsha vhusiku

Themo ya 3



Cape Town

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



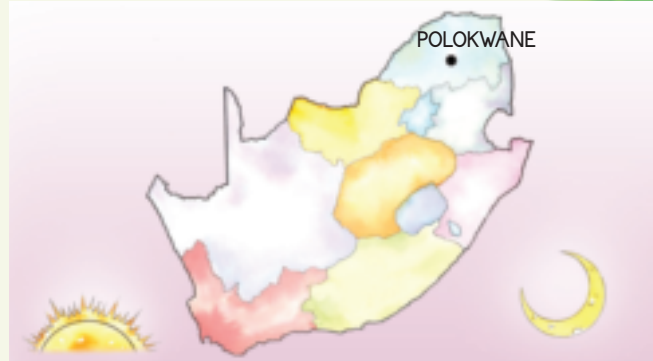
Cape Town	U tsha ha duvha	U kovhela ha duvha	Vhulapfu ha duvha	Vhulapfu ha vhusiku
Thafamuhwe 23	6:53 am	6:53 pm		
Fulwi 21	7:51 am	5:44 pm		
Khubvumedzi 19	6:41 am	6:41 pm		
Nyendavhusiku 22	5:32 am	7:58 pm		

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



Polokwane

Thebulu i re afho fhasi i sumbedza u tsha ha duvha na u kovhela halo nga zwifhinga zwo fhambananaho doroboni ya Polokwane. Vhalani zwifhinga zwi re kha thebulu iyi ni kone u dadza thebulu nga zwithu zwo teaho 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
Tshafamuhwe 25	6:08 am	6:08 pm		
Fulwi 21	6:44 am	5:24 pm		
Khubvumedzi 17	5:57 am	5:57 pm		
Nyendavhusiku 22	5:13 am	6:50 pm		

- Ndi nga nwedzi ufho hune masiari na vhusiku zwa vha zwo lapfa u fana? _____
- Ndi minwedzi ifho kha yeneyi hune vhulapfu ha duvha ha fana hothe Cape Town na Polokwane? _____
- Ndi nga minwedzi ifho hune zwa fhambana? _____
- 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.



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

Zwi nwaleni kha vhege nthihi. Ma duvha a khou lapfa kana a khou pfufhifhala?



Teacher:
Sign:
Date:

Muandiso: mbili u swika kha 75

Themo ya 3

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.

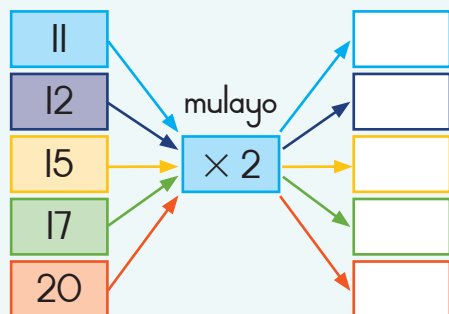
U kovhela	Kovhani
Kovhani zwa 21 kha vha 2	$21 \div 2 = 10$ ha sala 1
Kovhani zwa 33 kha vha 2	
Kovhani zwa 67 kha vha 2	
Kovhani zwa 75 kha vha 2	



Fhedzisani nyolo dza muelo.

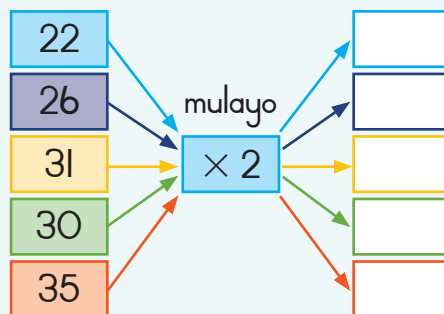
nomboronzheniswa

nomboromviswa



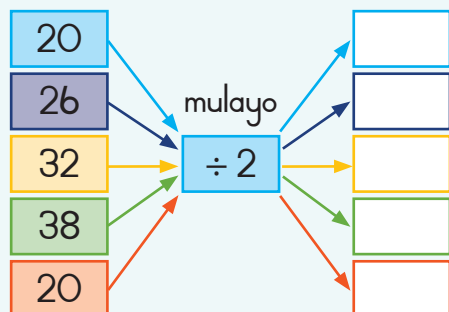
nomboronzheniswa

nomboromviswa



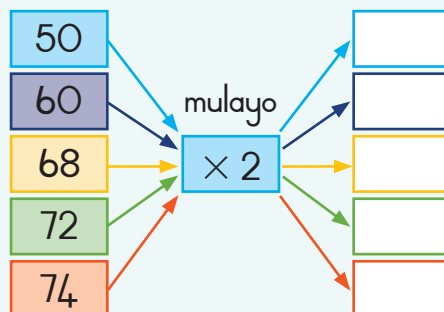
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebulu dzi re afho fhasi:

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

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



Thasululani zwi tevhelaho:

Ndo renga mategere 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: _____

11 12 13 14 15 16 17 18 19 20

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

Themo ya 3



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

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

Vhalani ni tshi humela murahu nga tshanu 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 mitevhe ya nomboro.

720; 722; 724; _____; _____; _____

800; 798; 796; _____; _____; _____



Tanganyani kana ni tuse mbili.

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

a. $764 + 2 = 766$

b. 762 _____

c. 783 _____

d. 756 _____

e. 714 _____

f. 799 _____



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

a. $764 - 2 = 762$

b. 762

c. 783

d. 756

e. 714

f. 799

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



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledzi izwi?

b. Tharamudzani mitevhe i tevhelaho ya nomboro:

799; 797; 795; ; ;

783; 785; 787; ; ;

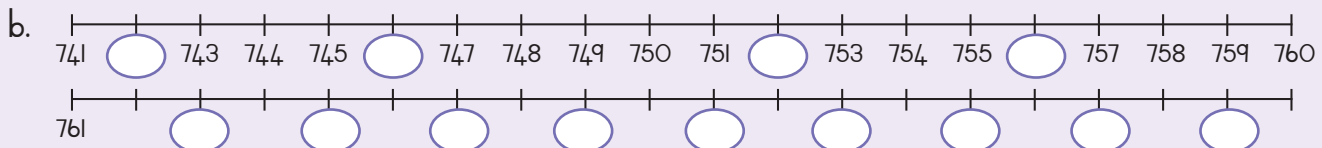
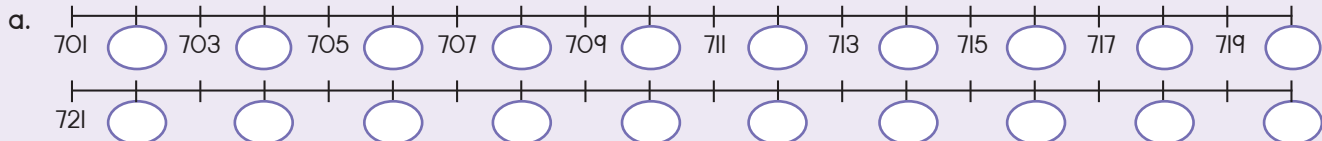
701; 703; 705; ; ;

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 ntšha nga nomboro i no fhira 7 nga mbili, nahone didzhiti ya u fhedzisela ndi tšukhu kha sumbe nga nna.

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



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Muandiso:

dzi2 na dzi5 u swika kha 75

Themo ya 3



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

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



Vhonani uri khonani yanga o ita mini.

$$4 \times 2 = 8$$

Ambani ngazwo.

Khonani yanga o sumbedza 4×2 nga hei ndila:

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

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

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



Andisani zwi tevhelaho:

$$24 \times 3$$

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

$$a. 13 \times 3$$

$$b. 18 \times 3$$

$$c. 12 \times 5$$

$$d. 21 \times 3$$

$$e. 14 \times 3$$

$$f. 25 \times 3$$

$$g. 12 \times 3$$

$$h. 15 \times 5$$



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?



Muandiso: tharu i swika kha 75

Themo ya 3

Ndi zwifhio zwi no
tshimbila nga
zwiraruzwiraru?
Mavhili a thiraisikili



Hu na mavhili mangana
kha

thiraisikili ya 1?

thiraisikili dza 2?

thiraisikili dza 3?

thiraisikili dza 4?

thiraisikili dza 5?

thiraisikili dza 6?

thiraisikili dza 7?

thiraisikili dza 8?

thiraisikili dza 9?

thiraisikili dza 10?

Livhangani thanganyelo na
mbudziso i re kha tsha monde:

$$9 \times 3 = 27$$

$$7 \times 3 = 21$$

$$2 \times 3 = 6$$

$$4 \times 3 = 12$$

$$3 \times 3 = 9$$

$$5 \times 3 = 15$$

$$1 \times 3 = 3$$

$$10 \times 3 = 30$$

$$6 \times 3 = 18$$

$$8 \times 3 = 24$$



Fhedzisani thebulu.

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



Fhedzisani thebulu.

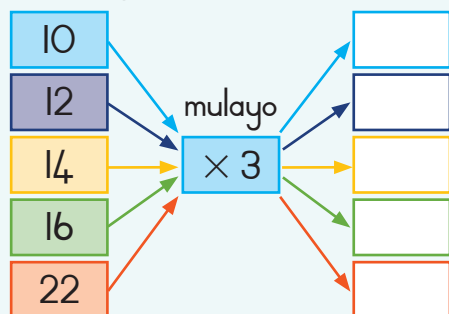
U kovhela	Kovhani
Kovhani zwa 37 kha vha 3	$37 \div 3 = 12$ ha sala 1
Kovhani zwa 74 kha vha 3	
Kovhani zwa 49 kha vha 3	
Kovhani zwa 68 kha vha 3	



Fhedzisani nyolo dza muelo.

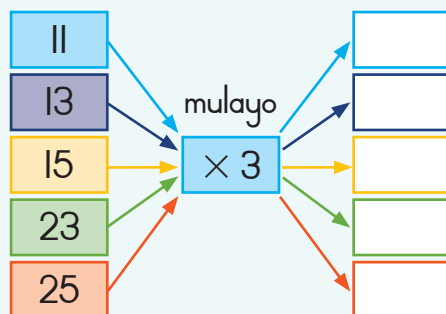
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nomboromviswa



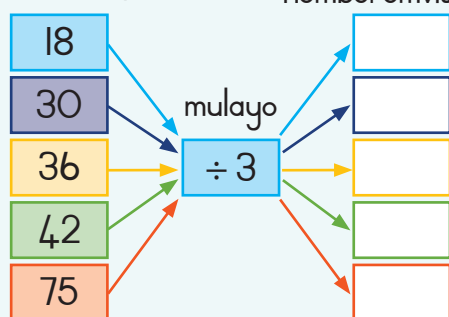
nomboronzheniswa

nomboromviswa



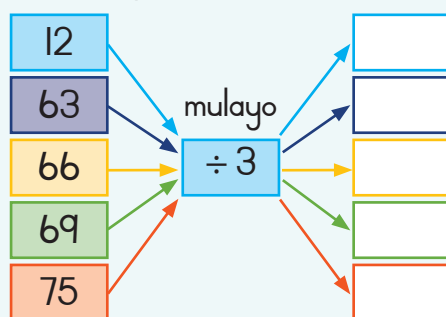
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebulu dzi re afho f'hasi:

×	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 zwiḃuloko zwa muvhala wa lutombo no dzi wanisa hani?



Thasululani zwi tevhelaho:

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



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Muandiso:

dzi2, dzi3 na dzi4 u swika kha 75

Themo ya 3



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	$2 \times$ _ = _ $4 \times$ _ = _ — ÷ — = — — ÷ — = —

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 yaṅu.

$$63 \div 3$$

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

$$21 \times 3$$

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

a. $48 \div 5$

b. $64 \div 5$



Thasululani zwi tevhelaho:

Nṅe ndi na khonani dzanga ri na R63 ro ṭanganela.
 Ri khou ṭodou i kovhekana ri vhararu.
 Muṅwe no muṅwe u ḍo wana vhugai?



11 12 13 14 15 16 17 18 19 20

Phetheni dza nomboro: tharu u swika kha 800

Themo ya 3



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

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

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

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

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



Fhedzisani mutevhe wa nomboro.

703; 706; 709; _____; _____; _____

799; 796; 793; _____; _____; _____



Tanganyani kana ni tuse raru.

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

a. $766 + 3 = 769$

b. 766 _____

c. 783 _____

d. 756 _____

e. 713 _____

f. 790 _____



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

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

b. 763 _____

c. 789 _____

d. 75b _____

e. 713 _____

f. 799 _____

3. Hu bvelela mini musu ni tshi t̄anganya kana u t̄usa raru kha nomboro dzi re af̄ho n̄t̄ha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona zwif̄hio kha zwitendedzi izwi? _____

b. T̄haramudzani mitevhhe i tevhelaho ya

nomboro:

782; 785; 788; _____; _____; _____

704; 707; 710; _____; _____; _____

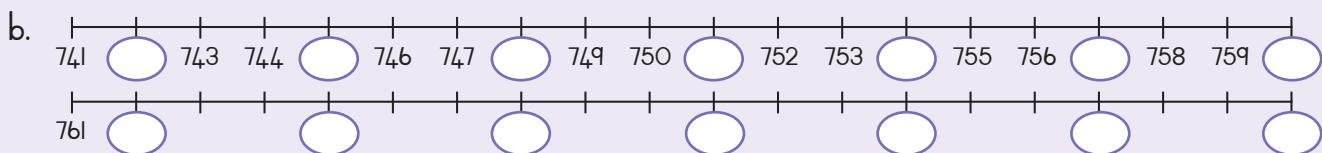
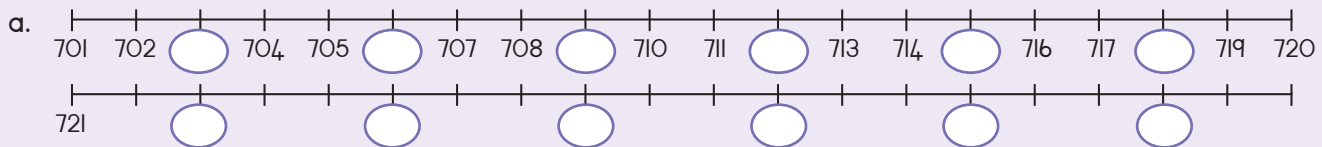
779; 782; 785; _____; _____; _____

773; 776; 779; _____; _____; _____

779; 776; 773; _____; _____; _____



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



Ndi na nomboro ya didzhiti dza 3:

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

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

Ni wana nomboro if̄hio? _____



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

Muandiso: dziina u swika kha 75

Themo ya 3

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 tchanganyelo na
mbudzo 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:

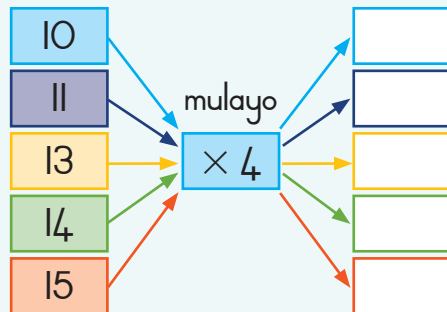
U kovhela	Kovhani
Kovhani zwa 35 kha vha 4	$35 \div 4 = 8$ ha sala 3
Kovhani zwa 55 kha vha 4	
Kovhani zwa 70 kha vha 4	
Kovhani zwa 75 kha vha 4	



Fhedzisani nyolo ya lubuvhi.

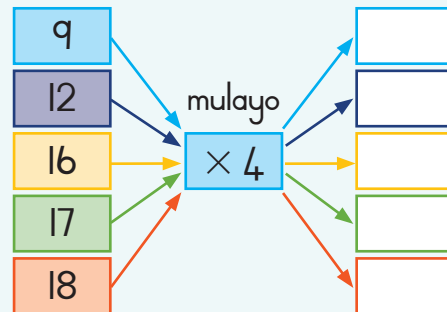
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nomboromviswa



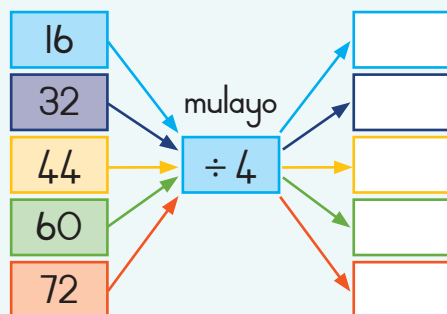
nomboronzheniswa

nomboromviswa



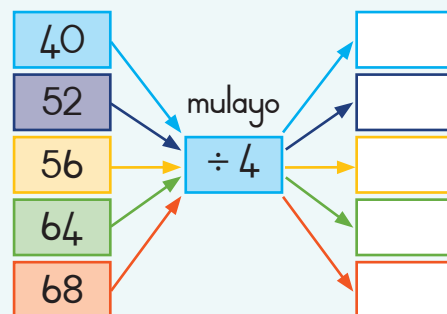
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nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebulu dzi re afho fhasi:

$\times$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4															

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

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



Thasululani zwi tevhelaho:

Ndi na R75.

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



Teacher: _____
 Sign: _____
 Date: _____

11 12 13 14 15 16 17 18 19 20

Phetheni dza nomboro u swika kha 800

Themo ya 3



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

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

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

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

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



Fhedzisani mutevhe wa nomboro.

704; 708; 712; _____; _____; _____

724; 728; 732; _____; _____; _____



Tanganyani kana ni tuse ina.

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. Tšani iṅa kha nomboro ye na n̄wa. Ro dzula ro ni itela ya u thoma.

a. $76\cancel{4} - 4 = 76\textcircled{0}$

b. 768

c. 784

d. 752

e. 714

f. 798

3. Hu bvelela mini musu ni tshi tṅanganya kana u tṅusa iṅa kha nomboro dzi re afho nṅha?



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledzi izwi? _____

b. Tharamudzani mitevhhe i tevhelaho ya nomboro:

703; 707; 711; _____; _____; _____

773; 777; 781; _____; _____; _____

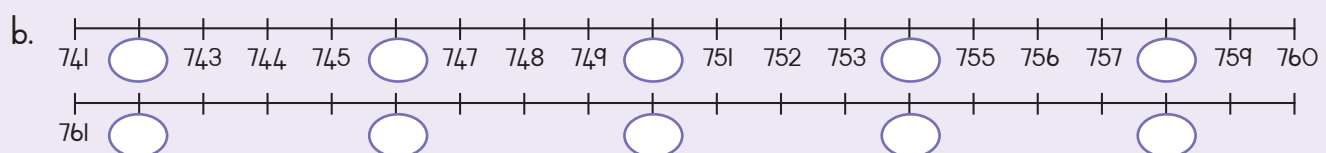
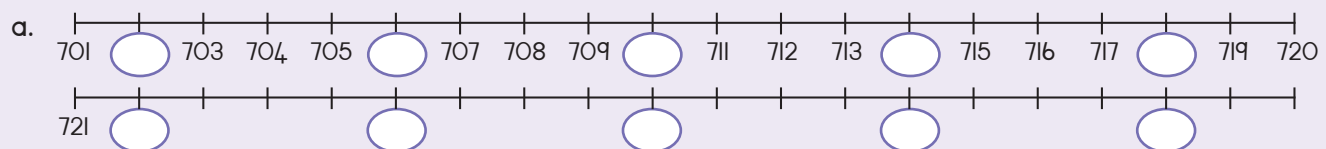
711; 715; 719; _____; _____; _____

783; 779; 775; _____; _____; _____

799; 795; 791; _____; _____; _____



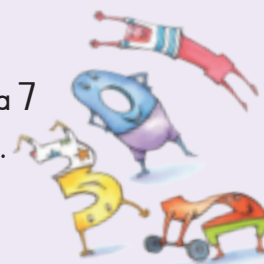
Dzhenisani nomboro yone kha tshitendeledzi tshinwe na tshinwe kha mitalombalo iyi.



Ndi na nomboro ya didzhiti dza 3.

Didzhiti ya u thoma ndi 7, didzhiti i tevhelaho i nṅha nga nomboro i no fhira 7 nga nthihi, nahone didzhiti ya u fhedzisela ndi tṅukhu 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: _____

11 12 13 14 15 16 17 18 19 20

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 tḥodisiso.

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



11 12 13 14 15 16 17 18 19 20

90

Deithi:

Mbonalo dza zwithu zwa 3-D

Themo ya 3



Lavhelesani zwifanyiso izwi.

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

Bola	Mabogisi	Silinda	Phiramidi	Khounu



Lavhelesani zwifanyiso ni f'hedzise maf'hungo na mbudziso.



a. Bola

_____.



b. Ndi nga mini bola
i sa swendi?



c. Silinda

_____.

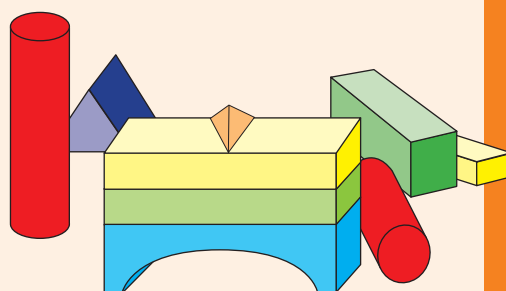
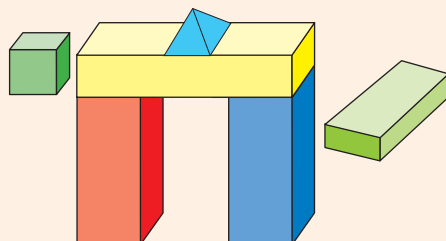
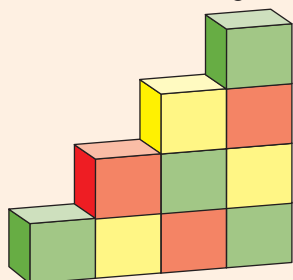


d. Silinda na yone
i nga swenda?



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

Ni tea u bula dzina la tshithu luthihi f'hedzi. 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.
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Teacher:
Sign:
Date:

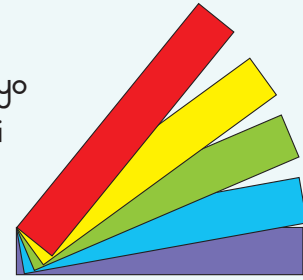
11 12 13 14 15 16 17 18 19 20

Khithi ya zwibambiri zwa furakhisheni

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



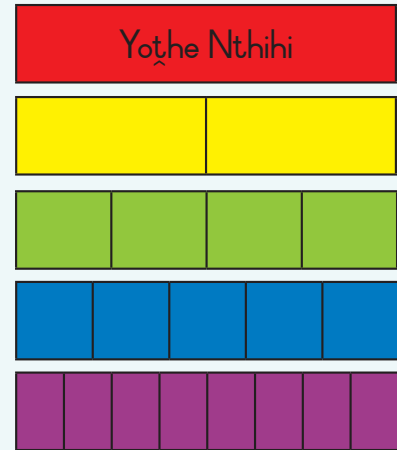
Itani khithi
Tshigeriwa 5



Kha lubambiri luthihi nwalani maipfi: Yothe Nthihi
Dzhiani lunwe 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 tevhedzela he na peta.

Dzhiani lubambiri lwa vharuru 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 tevheledzela he na peta.

Zwino edzisani u ita vhubambiri vhuvhili hafu, luthihi lu tshi sumbedza zwaruru lunwe lu tshi sumbedza zwamalo



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



Ndi hafu nngana dzi no lingana na yothe nthihi?



Ndi zwaina zwingana zwi no lingana na hafu nthihi?



Furakhisheni kha mutalombalo.

Lubambiri ulu lu sumbedza yothe nthihi.



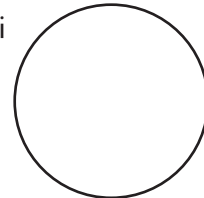
Tshitendeledzi itshi tshi sumbedza yothe nthihi.



Khethekanyani lubambiri lu bve zwaruru.

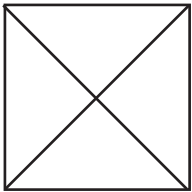
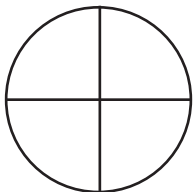
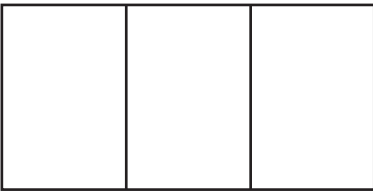
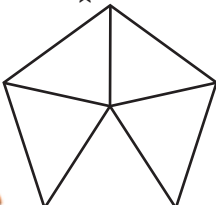
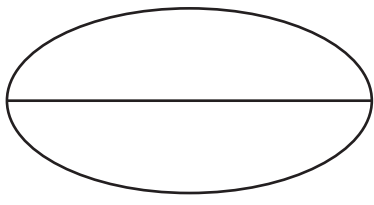
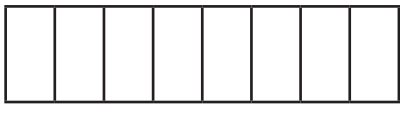
Khalarani tsharuru.

Khethekanyani tshitendeledzi tshi bve zwaruru.
Khalarani tsharuru.





Zwino khalarani zwi tevhelaho:

Hafu nthihi 	Kota tharu 	Zwararu zwivhili 
Zwaṭhanu zwiṇa 	Hafu nthihi 	Kota tharu 



Olani zwi tevhelaho:

Kota tharu ni tshi shumisa zwikwea.	Hafu nthihi ni tshi shumisa tshitendeledzi.	Zwararu zwivhili ni tshi shumisa thiraiengele.
Zwaṭhanu zwiṇa ni tshi shumisa tshitendeledzi.	Zwamalo zwiṇa ni tshi shumisa zwikwea.	Zwararu zwivhili ni tshi shumisa rekhithiengele.



Lugisani khithi yaṇu.

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



Teacher: _____
Sign: _____
Date: _____



11 12 13 14 15 16 17 18 19 20

Furakhisheni dzinwe hafhu

Themo ya 3



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 ngala!
Ndi khou tōda hafu.

Sipho



b.

Zwo luga! Ndi go
dzhia kota.

Gugu



Olani mukovhe wa Sipho.

c.

Nne ndi go dzhia
hafu ya ye ya sala.

Andile



d.

Nne ndo
salelwa nga phai
nngafhani?

Lisa

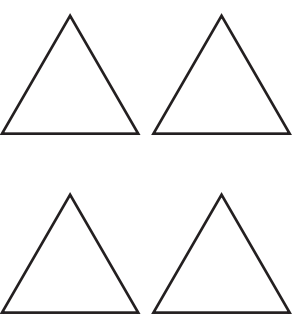
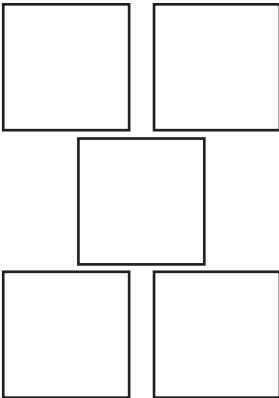
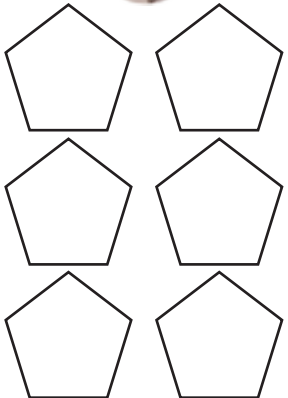


Olani mikovhe ya Sipho, Gugu na Mulalo.

Olani minwe mikovhe yothe ya phai.



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

 	 	 	 
---	--	---	---



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



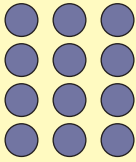
Teacher:
 Sign:
 Date:

11 12 13 14 15 16 17 18 19 20

Ukovhekanya zwi tshi livha kha furakhisheni

Themo ya 3

Zwivhaleli zwa
12 khezwi.



Ri khonani mbili. Ri na tshifaredzi
tshithihi f'hedzi tsho f'handulwaho tsha
bva hafu dzi no lingana.

Ri ri hei ndi
hafu nthihi..

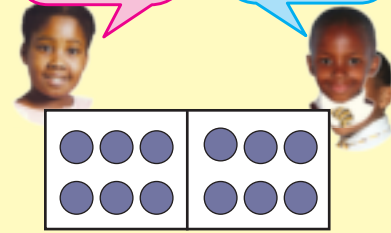
Ri ri hei ndi
hafu nthihi.



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 t'hahe dzi kovhelwa khonani tharu.



- Musidzana muñwe na muñwe u ɔo
wana bola nngana? ☐
- Musidzana muñwe na muñwe u ɔo
wana furakhisheni ifhio? ☐

Bola dza t'hahe dzi kovhelwa khonani n'na.
Vhararu vhavho ndi vhatukana.



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



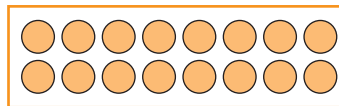
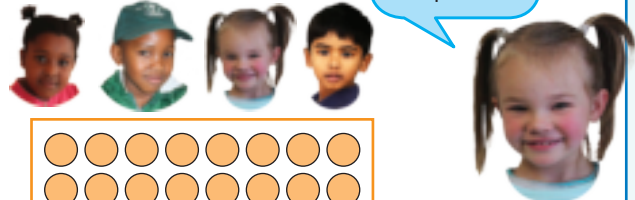
Maanda u ɔo wana furakhisheni ifhio? Ann u ɔo wana
furakhisheni ifhio?

Ndi pfi Maanda



- Maanda na Ann vha ɔo wana bola nngana?

Ndi pfi Ann.



- Maanda na Ann vha ɔo wana bola nngana?



U kovhekana ma $\grave{e}$ gere.

Khonani dzi kovhekana ma $\grave{e}$ gere. 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 $\grave{t}$ oda mithara (m) dza $2\frac{1}{2}$ dza labi.

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

a. Ndi zwirivha zwingana zwine vha nga runga nga?

5 m _____ 10 m _____

20 m _____ 25 m _____

b. Ndi labi $\grave{t}$ ingafhani $\grave{t}$ ine vha $\grave{d}$ o $\grave{t}$ oda kha u runga?

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

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

tshirivha tsha $\grave{t}$ _____ zwirivha zwa 2 _____ zwirivha zwa 3 _____

d. Vha nga runga zwirivha zwingana nga:

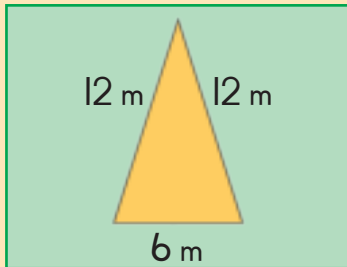
R450 _____ R825 _____ R180 _____



Muelo ri tshi mona

Themo ya 3

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



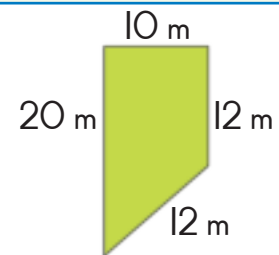
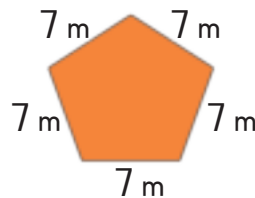
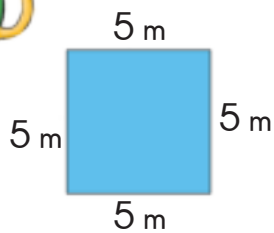
Rabulasi u na bulasi ya tshivhumbeo tsha thiraiengele.

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

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



Wanani mudzinga.



Ngade ya Veronica.

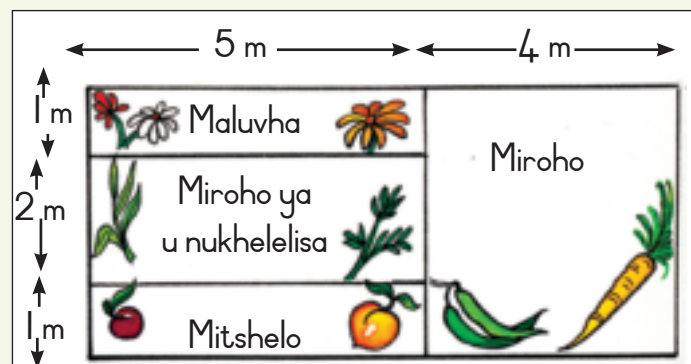
Veronica u ola mudzinga wa ngade ine a todou lima.

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

b. Ndi zwipida zwif'hio zwi re na midzinga i no fana? Mudzinga wazwo ndi uf'hio?

_____ na _____ zwi na mudzinga 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 yoṯhe khathihi na zwimela zwine na nga tama u zwi ṯavha.



U ela zwitendeledzi.

Shumani ni na phathinara yaṅu.

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

1. Nangani tshithu tshithihi tsha tshitendeledzi tshine na nga ela nga lutambo.
2. Gerani tshipida tsha lutambo tshine tsha nga mona tshithu kwakwakwa.
3. Zwino dzhiani lutambo lwonolwo ni lu ṯharamudze 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).



95a

Deithi:

U renga tshelede

Themo ya 3

Tambani mitambo i tevhelaho ni na phathinara yanu.

Matheriala:

RIOO

RIO

RI

IOc

Ic



RIOO	RIO	RI	IOc	Ic

Bodo ya tshelede (Tshigeriwa 8),

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

Vheani Bodo ya Tshelede ntsha ha tafa.

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



Tanganyani u swika kha Rannda dza IOO.

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

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

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

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

5. **Ndatiso:** Arali mutambi a fhedza raundu yawe a hangwa u rengisa khoini dzawe dza RI uri a wane noutu ya RIO, ngeno ula muñwe mutambi o kona u vhona vhukhaki uhu, ndatiso ndi RI. Arali mutambi a hangwa u rengisa noutu dza RIO uri a wane RIOO, u fanela u badela ula muñwe 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 tchanganyelo ya nomboro dzi re kha daisi. Mutambi a no wana RO ndi ene we a wina.

RIOO	RIO	RI	IOc	Ic



Mutanganyo na mutuso u swika kha RI 000.

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



U tanganya u swika kha RI.

Tambani mutambo u no fana na wa u thoma, fhedzi zwino ni kungulusa daisi na wana tchanganyelo, dzhiani tchanganyelo 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.



11 12 13 14 15 16 17 18 19 20

95b

Deithi:

Kha ri ye mavhengeleni!

Themo ya 3



Seili ya minadzi.

Vhengeleni vha rengisa minadzi ya 5 nga mitengo yo fhambananaho.



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

- a. Wanani velu ya minadzi kha rou inwe na inwe.
- b. Vho Mme Madzanga vha renga muñadzi wa l wa lushaka lunwe na lunwe.
Vha badela vhugai yo tangana yothe? _____
- c. Buti u shumisa R450 yo tangana yothe. U renga muñadzi wa l nga R100.
U renga minwe minadzi ifhio? Sumbedzani phindulo dza 2 dzine dza nga wanala.

Tolani!
Vhambedzani!
Lulamisani

Phindulo 1	Phindulo 2



Bekharini.

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



Risipi ya khekhe ya tshipontshi

Zwa khekhe: Fulauru ya 40 g i no kukumuwa nga yotlhe; Makumba a 3; swigiri aisiini ya 50 g
Zwa u shela: Luvhomba lwa 140 ml

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

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

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

Litha ya I ya luvhomba i nga dodziwa kha: khekhe dza 10;
khekhe dza 7; khekhe dza 8.



Mbalotshihadu.

Tolani! Vhambedzani!
Lulamisa

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



11 12 13 14 15 16 17 18 19 20

Zwinwe hafhu nga data

Themo ya 3



Tshitiitshini 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 yotlhe? _____



Ndi ṭhanga ifhio?

Vha kilasi ya Gireidi 3 vha ita ṭhodisiso mudanani.

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

Vha sumbedza mvelelo dzavho nga girafu ya buloko.

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



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

Ni vhona ṭhanga nngana dza lushaka l̄n̄we na l̄n̄we?

Dzithaili _____ Hatsi _____ Mabulannga _____ Mazenngwe _____

Ndi lushaka lufhio lwa ṭhanga lu no funeswa? _____

Vha kona u vhalo ṭhanga nngana dzo ṭanganana dzoṭhe? _____



Saizi (mielo) ya minadzi.

Vhatukana vha tshikoloni tsha Juma vha ambara gebisi dza tshikolo.

Gebisi idzi dzi na saizi 2, 3 na 4.

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



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

2 _____ 3 _____ 4 _____

Ndi saizi ifhio yo andesaho? _____

Tolani! Vhambadzani!
Lulamisani

○

□

△

Teacher: _____
 Sign: _____
 Date: _____

11 12 13 14 15 16 17 18 19 20

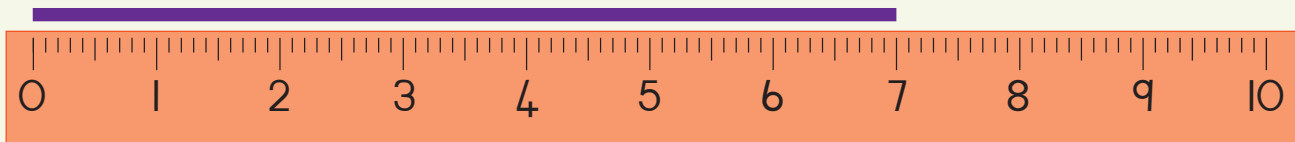
U shuma nga senthimitha

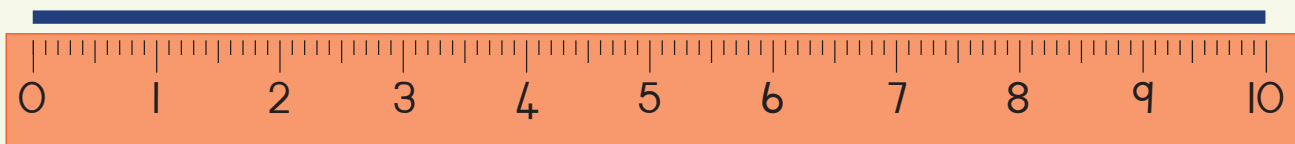
Themo ya 4



Mutaladzi wo khalariwaho 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.

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

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



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

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



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



11 12 13 14 15 16 17 18 19 20

98

Deithi:

Nomboro 700 u swika kha 800

Themo ya 4



Vhalani ni n'wale.

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

700

800

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 dzothe dzi re kha phetheni ya dzi2 u bva kha 751 u swika kha 773.

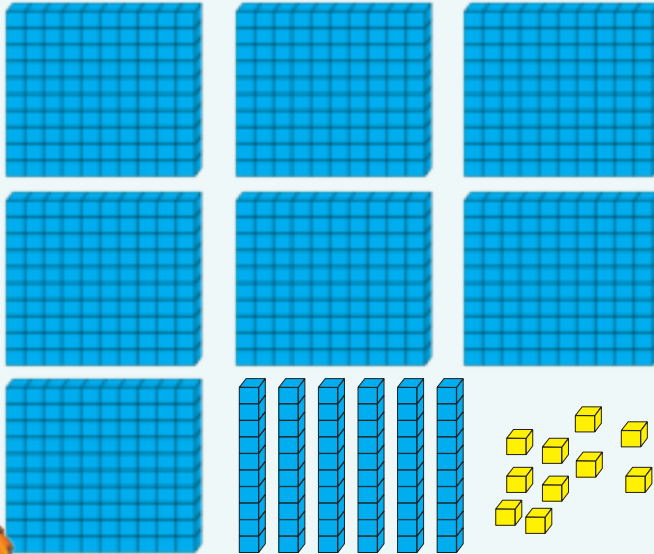
751; _____; _____; _____; _____; _____; _____; _____; _____; 773

- 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	
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Teacher:
Sign:
Date:

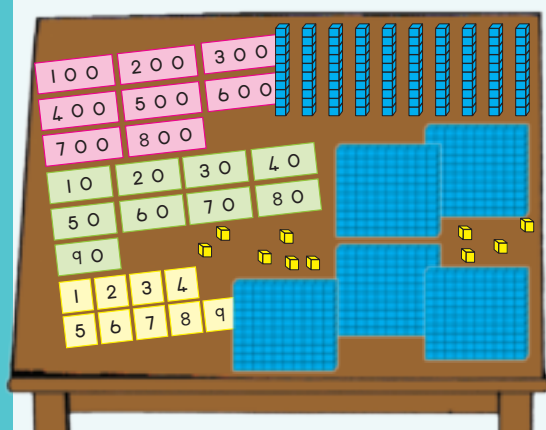
11 12 13 14 15 16 17 18 19 20

qq

Deithi:

Nomboro dzinwe hafhu 700 u swika kha 800

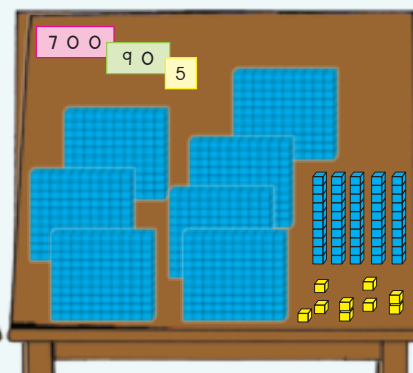
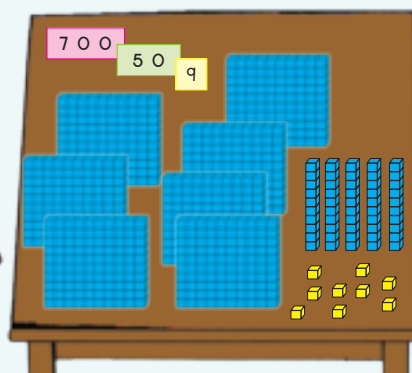
Themo ya 4



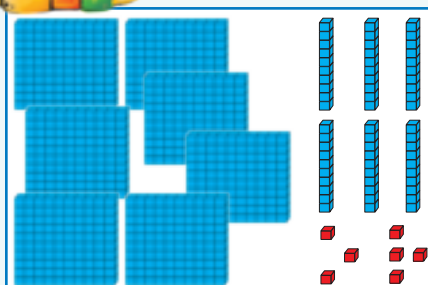
Peter o vha e na magarata a vhuimo ha nomboro na zwiwuloko zwa beisi ya fumi zwi tevhelaho.

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

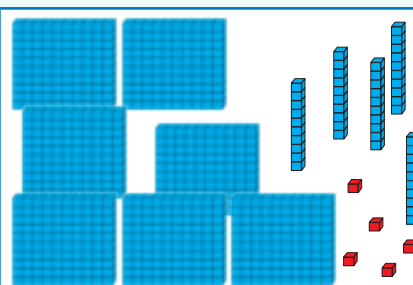
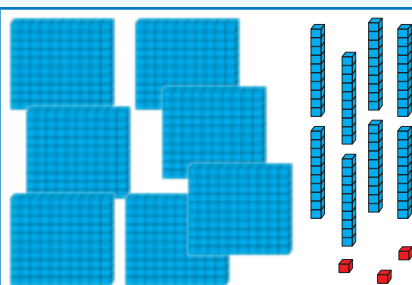
Hezwi ndi zwe Ben a sumbedza zwone. O khakha ngafhi?



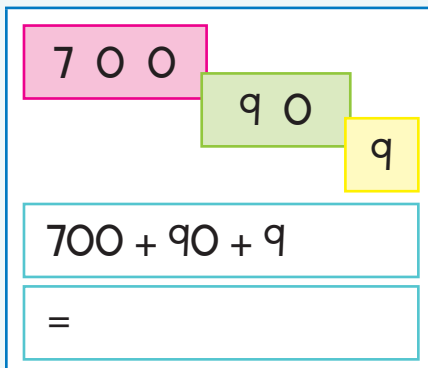
Nwalani fhungo la nomboro ni tevhedze nga phindulo.



$$700 + 60 + 7 = 767$$

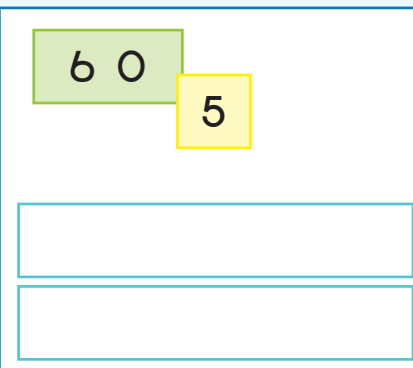
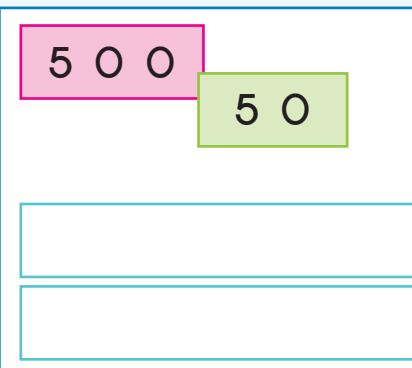


Nwalani fhungo la nomboro ni tevhedze nga phindulo.



$$700 + 90 + 9$$

=





Fhedzisani mutalombalo.

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

Mpheni nomboro dzotlhe dzi re thukhu kha 795. _____

Mpheni nomboro dzotlhe dzi re khulwane kha 795. _____



Dzhenisani $< \text{kana} > =$

a. 799 _____ 766 b. 745 _____ 750

c. $700 + 90 + 7$ _____ 767



Padulani nomboro yanu.

a. Fhatani nomboro inwe na inwe nga magarata anu.

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

790	
689	
699	
755	
690	

Tsumbo: 799

7	0	0
	9	0
		9
7	9	9

799 $700 + 90 + 9$



Nwalani madzina a nomboro.

668	
757	
799	
742	
691	



Teacher: _____
Sign: _____
Date: _____

100

Deithi:

Nomboro 800 u swika kha 900

Themo ya 4



Vhalani ni 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 n'tha.
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 dzo t'he dzi re kha phetheni ya dzi2 u bva kha 807 u swika kha 829.

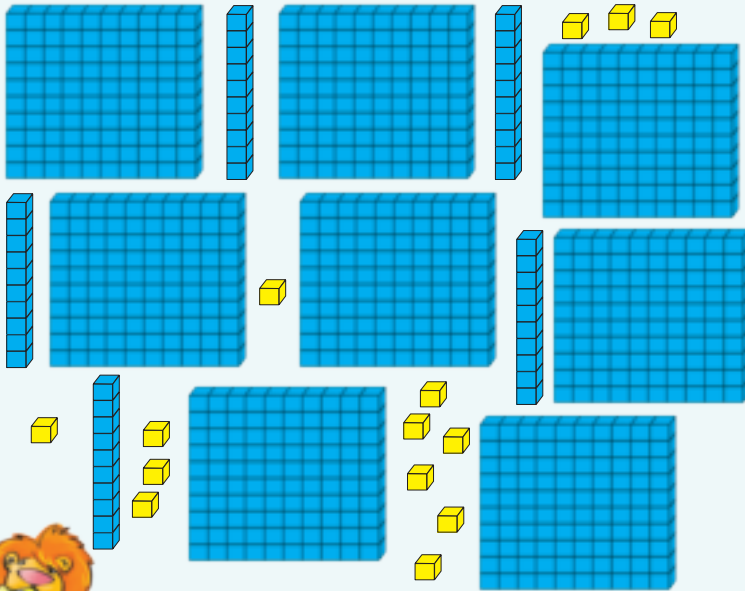
807; _____; _____; _____; _____; _____; _____; _____; _____; 829

- 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:

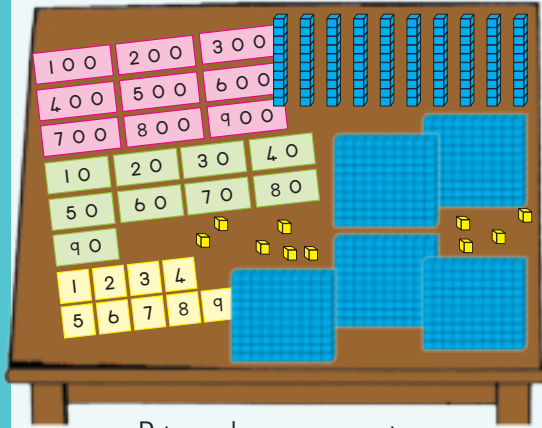
11 12 13 14 15 16 17 18 19 20

101

Nomboro dzinwe hafhu 800 u swika kha 900

Deithi:

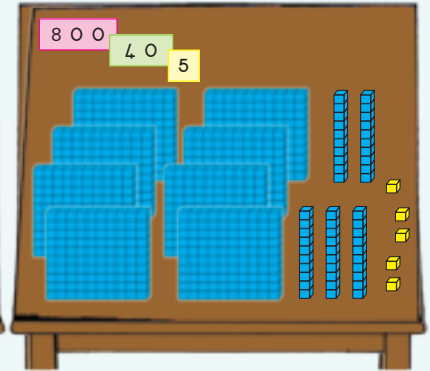
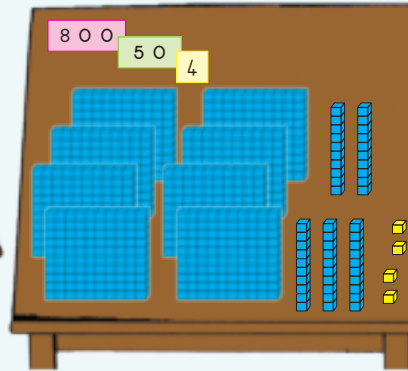
Themo ya 4



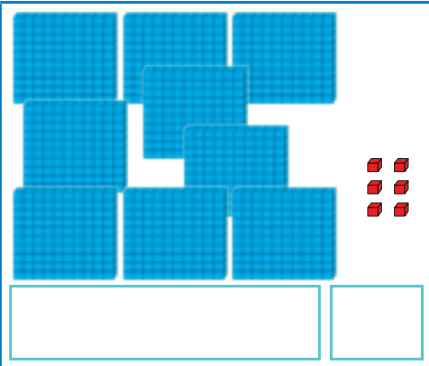
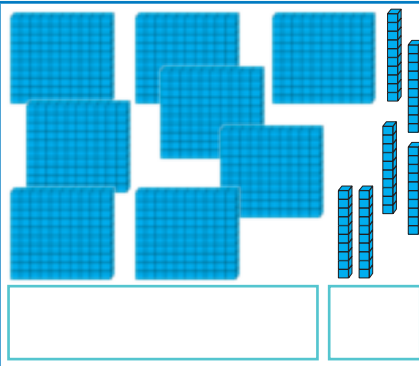
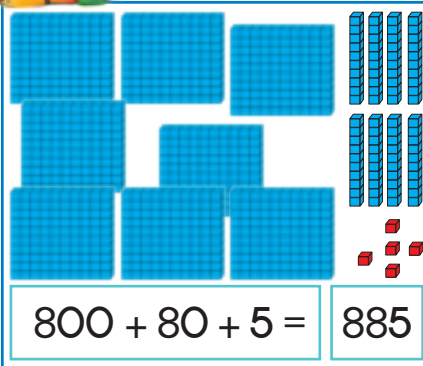
Mudededzi vho hambela Peter uri a sumbedze 854 nga magarata awe na zwiwuloko.

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

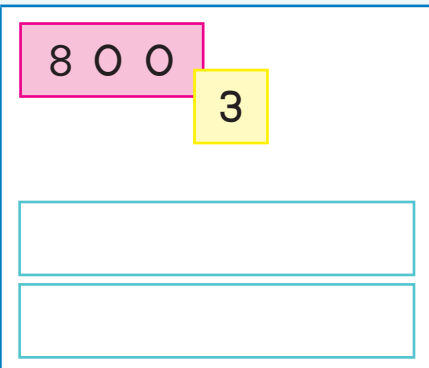
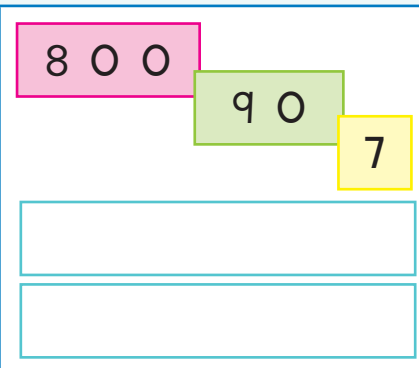
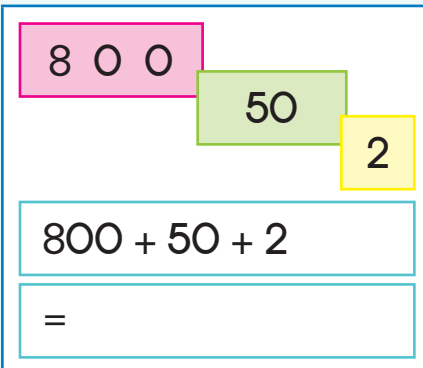
Peter o vha e na magarata a vhuimo ha nomboro na zwiwuloko zwa beisi ya fumi zwi tevhelaho..



Nwalani f'hungombalo ni tevhedze nga phindulo.



Nwalani f'hungombalo 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



Paḍulani nomboro yaṇu.

a. Fhatani nomboro inwe na inwe nga magaraṭa aṇu.

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

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: _____

102a

Deithi:

Ukala zwithu

Themo ya 4



Lavhelesani zwifanyiso zwi tevhelaho ni f'hindule 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 tangana ri lemela vhugai?

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

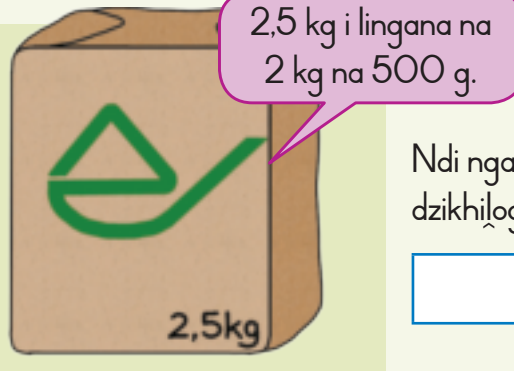
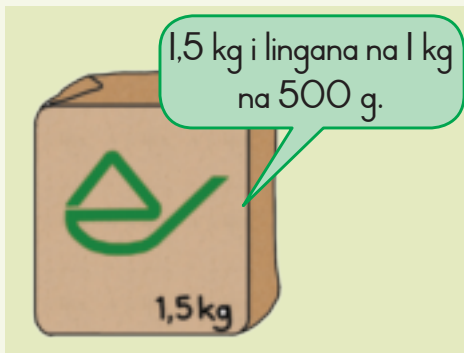


Zwibveledzwa izwi zwothe zwi lemela vhugai?

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



Lavhelesani zwifanyiso zwi tevhelaho ni fhindule mbudzo.



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



Fhedzisani thebulu.

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

Tshithu	Nyanganyelo	Muelo	Phambano vhukati ha nyanganyelo na muelo



Zwibveledzwa zwi lemela vhugai zwothe?

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



Teacher: _____
Sign: _____
Date: _____

Kha ri kale hafhu

Themo ya 4

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 riwedzini lune zwithu zwa lemela zwituku.

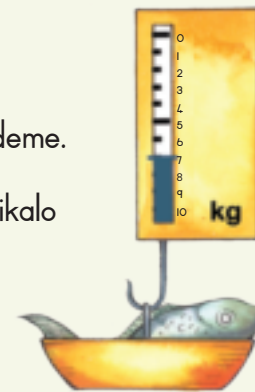
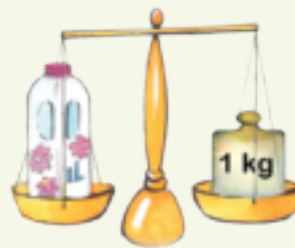
Fhano shangoni ri shumisa zwikalo zwi no fana kha tshileme na ndeme. Ri kala tshileme nga **khilogreme** na **gireme**.

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 maḽi i na tshileme tsha 1 kg.

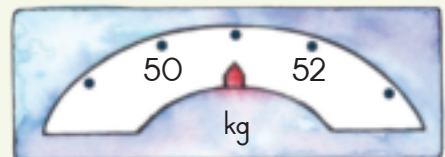
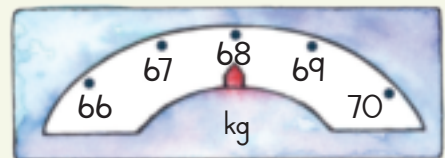
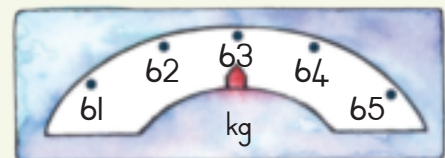
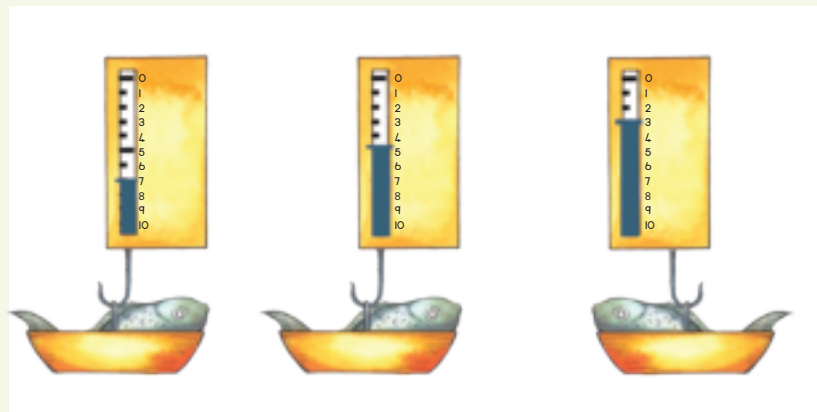


Khovhe i na tshileme tsha 3 kg.



Wanani zwileme zwavho.

Nwalani tshileme nga kg dze dza sumbedzwa kha tshiriwe na tshiriwe tsha zwikalo izwi zwa tshipirirangi.



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

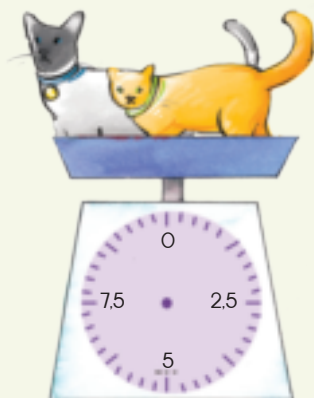
$$1\,000\text{ g} = 1\text{ kg}$$

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

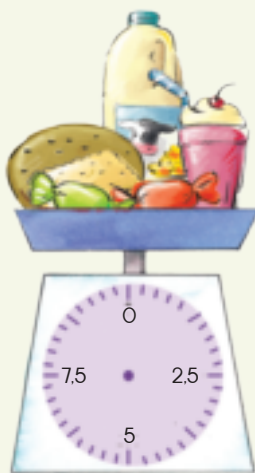


Zwilemela vhugai?

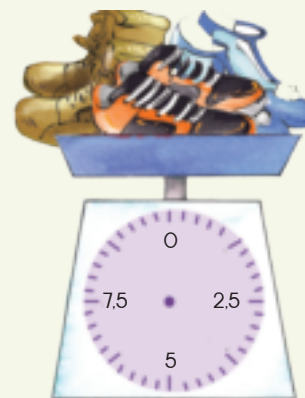
Olani hune musevhe wa tshikalo wa tea u sumba tshifhinga tshothe.



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

Themo ya 4



Vhalani ni n'wale.

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

900



901		903						910
							919	
		943				948		
981								
991							999	

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

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

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

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

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

- e. N'walani nomboro dzo t'he dzi re kha phetheni ya dzi2 u bva kha 945 u swika kha 967.

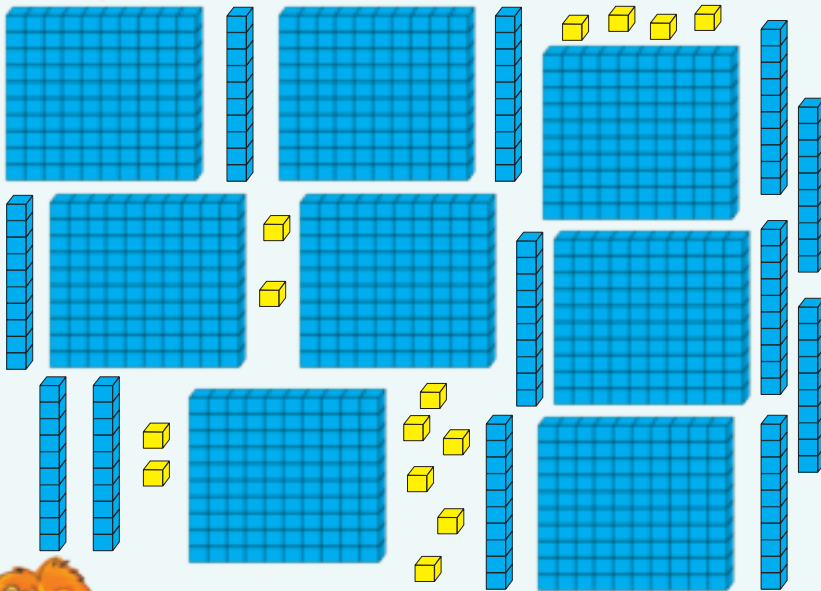
945; _____; _____; _____; _____; _____; _____; _____; _____; 967

- 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	
-----	--

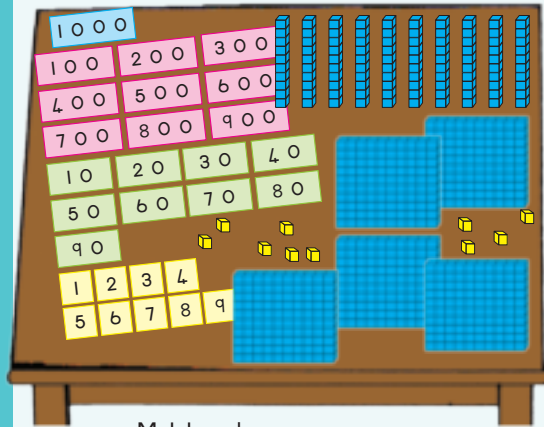


Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Nomboro dzinwe hafhu 900 u swika kha 1 000

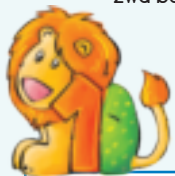
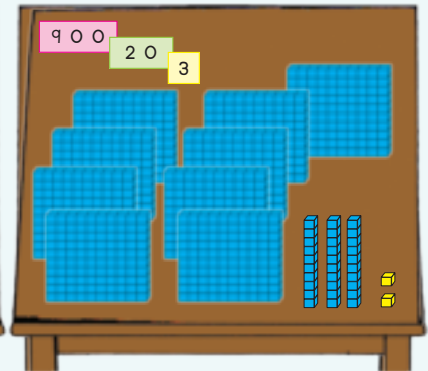
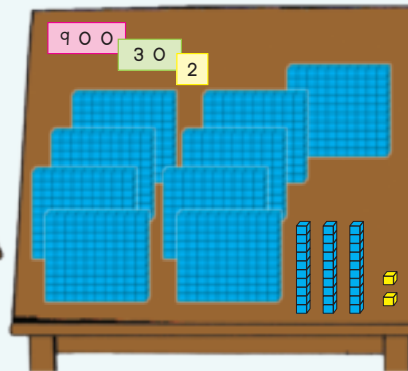
Themo ya 4



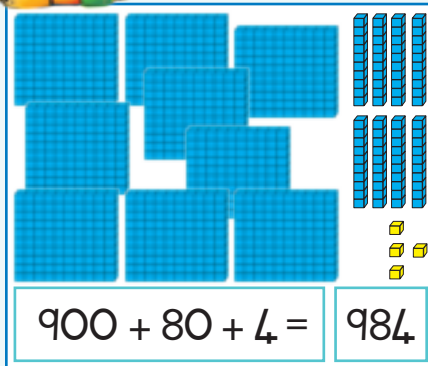
Mulalo o vha e na magarata a vhuimo ha nomboro na zwiwuloko zwa beisi ya fumi zwi tevhelaho.

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

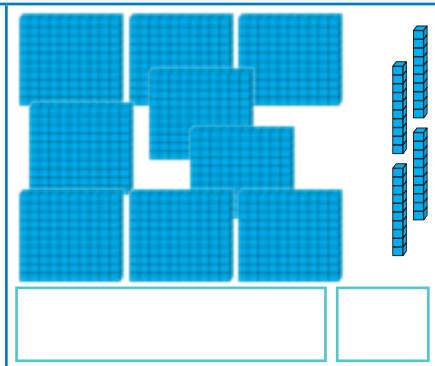
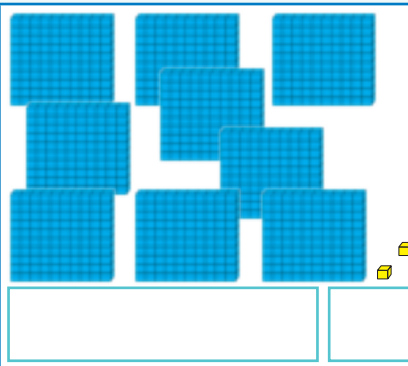
Hezwi ndi zwe Gugu a sumbedza zwone. O khakha ngafhi?



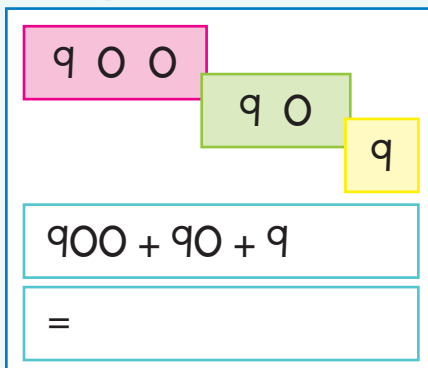
Nwalani fhungo la nomboro ni tevhedze nga phindulo.



$$900 + 80 + 4 = 984$$

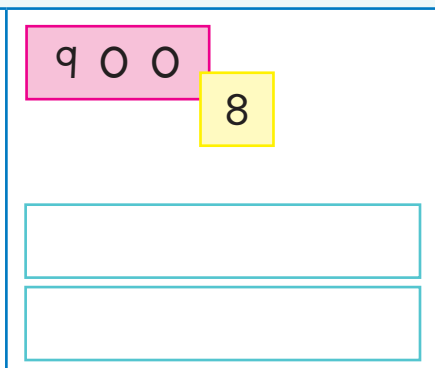
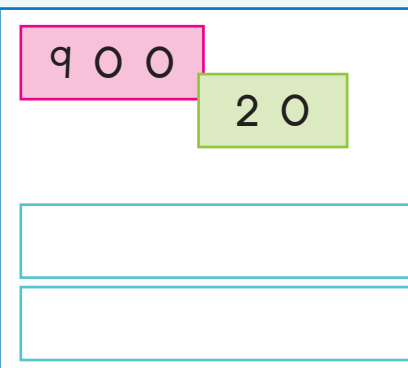


Nwalani fhungombalo ni tevhedze nga phindulo.



$$900 + 90 + 9$$

=





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	



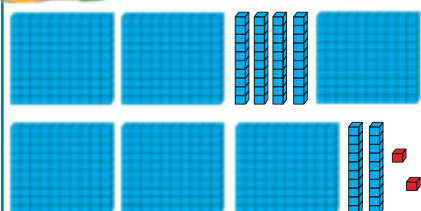
Teacher: _____
Sign: _____
Date: _____

Mutanganyo na mutuso u swika kha 999

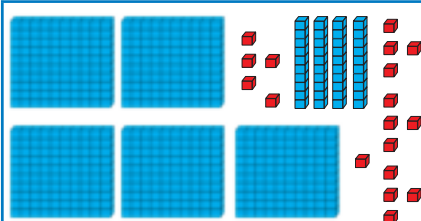
Themo ya 4



Nwalani f'hungombalo 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
 $= 340 + 340$
 $= \text{U inga kavhili } 340$
 $= 300 + 300 + 40 + 40$
 $= 600 + 80$
 $= 680$

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

c. $470 + 470$

d. $461 + 462$



Thasululani zwi tevhelaho:



Vhana vha Gireidi ya 2 vho kuvhanganya mimavhulu ya 360.
Vhana vha Gireidi ya 3 vho kuvhanganya mimavhulu i re fhasi kha ya vha Gireidi ya 2 nga 216.
Vhana vha Gireidi ya 3 vha na mimavhulu mingana?



Hayani

Themo ya 4



Duvha la u baka.

Makhadzi Vho Masindi vha baka vhurotho ovenini.

Sumbedzani zwifhinga kha watshi idzi.



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

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

Vhurotho vhu dzhia tshifhinga tshingafhani uri vhu vhibve? _____

Mme a Ann vha shumisa oveni ya maikhiroweivi. I a 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 tshifhinga? _____

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 muṛwe na muṛwe 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 maḁi a liṁtha dza 30 nga minete wa !!

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

minete ya 2 ndi liṁtha dza _____

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

minete ya 5 ndi liṁtha dza _____

minete ya 10 ndi liṁtha dza _____



U bika ṁama ya khere.

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

Vha a ṁwala uri vho shumisa oili nngafhani ḁuvha liṁwe na liṁwe.

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. Boḁelo liṁthihi Ḳa 750ml Ḳa mapfura Ḳi ḁura R18,50

Maboḁelo a 4 a ḁura vhugai? _____.



Tolani!
Vhambedzani!
Lulamisani



11 12 13 14 15 16 17 18 19 20

U shuma nga tshelede

Themo ya 4



Vhalani khoini na dzinoutu.

$10 \times \text{R}1 = \text{R}10$	$20 \times \text{R}1 = \text{R}20$	$50 \times \text{R}1 = \text{R}50$
$10 \times \text{R}2 = \text{R}20$	$20 \times \text{R}2 = \text{R}40$	$50 \times \text{R}2 = \text{R}100$
$10 \times \text{R}5 = \text{R}50$	$20 \times \text{R}5 = \text{R}100$	$50 \times \text{R}5 = \text{R}250$
$10 \times \text{R}10 = \text{R}100$	$20 \times \text{R}10 = \text{R}200$	$50 \times \text{R}10 = \text{R}500$
$10 \times \text{R}20 = \text{R}200$	$20 \times \text{R}20 = \text{R}400$	$50 \times \text{R}20 = \text{R}1000$
$100 \times \text{R}1 = \text{R}100$	$100 \times \text{R}2 = \text{R}200$	$100 \times \text{R}5 = \text{R}500$
$100 \times \text{R}10 = \text{R}1000$	$100 \times \text{R}20 = \text{R}2000$	



Lwendo nga tshidimela.

Vho Khethani na vhana vhavho vha 3 vha namela tshidimela.

Vhahulwane na vhana vha badela u fana.

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



Vha wana tshintshi ya R30.

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

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



Tolani!
Vhambedzani!
Lulamisani



Tshiphaza tsha Sandile.

Sandile u n'wala tshelade ine a ita kha thebulu. U thoma nga u anganyela, a kona u rekanya uri hu na mbuelo ya vhugai nga d'vha.

Mbuelo ndi tshelade ine ra i hola kana ra i t'anganedza. Thusani Sandile uri a f'hedzise murekanyo wawe. N'walani phindulo d'zanu kha thebulu:

		Anganyelani	T'hanganyelo
Musumbuluwo	$R50 + R75 + R200 + R350 + R25$		
L'avhuvhili	$R25 + R175 + R50 + R320 + R90$		
L'avhuraru	$R50 + R75 + R200 + R350 + R25$		
L'avhuna	$R120 + R55 + R180 + R245 + R25$		
L'avhutanu	$R60 + R150 + R140 + R200 + R125$		
Mugivhela	$R50 + R75 + R200 + R350 + R25$		
Swondaha			



Wanani uri tshintshi ndi vhugai.

U itela u wana tshintshi, ni nga t'anganya u thoma kha uri zwithu zwi d'ura vhugai, ha tev'hela uri ndi vhugai ine na d'o badela yone.

Tsumbo:

Mad'vha u renga zwiliwa zwa R87,50

U badela nga noutu ya R200.

Tshintshi yawe ndi vhugai?

+ 50c

+ R2

+ R10

+ R100

$R87,50 \rightarrow R88 \rightarrow R90 \rightarrow R100 \rightarrow R200$
 $50c + R2 + R10 + R100 = R112,50$ tshintshi

Shumisani mitalombalo uri i ni thuse u wana tshintshi.

Mutengo: R229,40

Ni badela nga:



Mutengo: R305,60

Ni badela nga:



11 12 13 14 15 16 17 18 19 20

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?

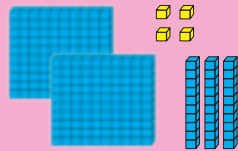
Ipfi li re khii ndi lifhio? zwinzhi

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.

Ndila ya 1

Ndila ya 2



Mishumo ya nga mats Sheloni.

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

Mbudziso ndi ifhio? _____

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

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

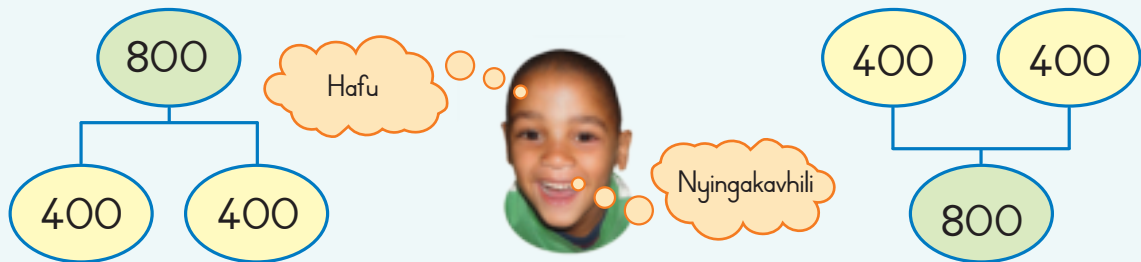
Mbudziso ndi ifhio? _____

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



Mutanganyo na mutuso u swika kha 999 hafhu

Lavhelesani nyolo ni i talutshedze.



Fhedzisani zwi tevhelaho:

a. $223 + 223 =$ _____.

b. $160 + 160 =$ _____.

c. $115 + 115 =$ _____.

d. $315 + 315 =$ _____.

e. $117 + 117 =$ _____.

f. $450 + 450 =$ _____.

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

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



Nwalani nomboro.

a. 12 nga ntsha ha 523 ndi _____.

e. 537 ho tuswa 29 ndi _____.

b. 15 nga ntsha ha 540 ndi _____.

f. Hafu ya 300 ndi _____.

c. 20 nga ntsha ha 576 ndi _____.

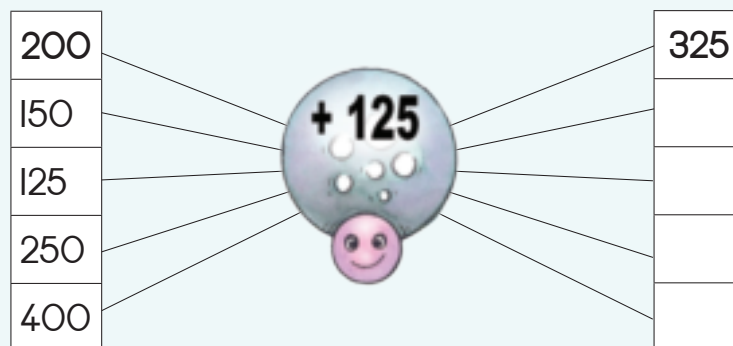
g. Davhulu ya 420 ndi _____.

d. 60 nga ntsha ha 590 ndi _____.

h. Hafu ya 600 ndi _____.



Tanganyani 125





Ndi mini zwi no vhumba 1 000?

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

Wanani mita ya nomboro dza + na –

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

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



Tolani!
Vhambedzani!
Lulamisani

Tanganyani na utusa mahumi na 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:

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



11 12 13 14 15 16 17 18 19 20

Phazili (khanganyisa) dza mielo

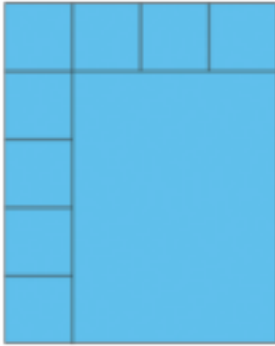
Themo ya 4



Wanani nyalo.

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

a.



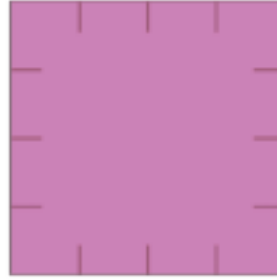
b.



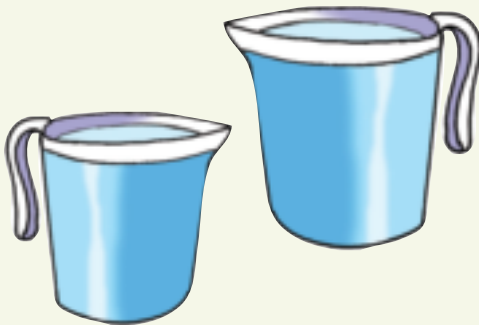
c.



d.



Thasululani thai.



Ni khou toda 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?

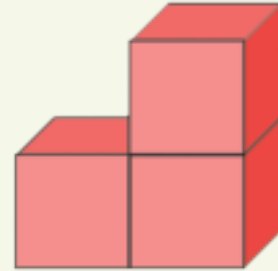
Lusevhedi: hu na ndila dzi no swika mbili.



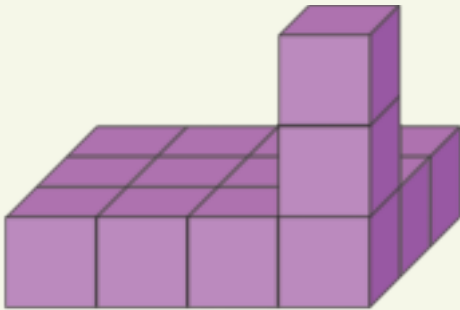
Ni kona u vhona mini?

Zwibuloko zwiraru zwo nambatelana u fana na tshifanyisoni itshi.

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



Vhalani khiubu.



Ndi khiubu nngana dzi dze dza vhumba tshivhumbeo itshi?



Khaedu: thai ya tshifhinga

Ni na watshi mbili dza mutavha.

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

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

Tolani!
Vhambedzani!
Lulamisani



11 12 13 14 15 16 17 18 19 20

Phetheni dza nomboro: mahumi u swika kha 900

Themo ya 4

Kha ri vhale nga mahumi u bva kha 810 u swika kha 900.

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



Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

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

Ñwalani phetheni: _____

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

Ñwalani phetheni: _____



Rekanyani.

a. $874 + 10 + 10 + 10 =$ _____

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: _____

11 12 13 14 15 16 17 18 19 20

Sendedzani kha IO ya tsinisa

Themo ya 4

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



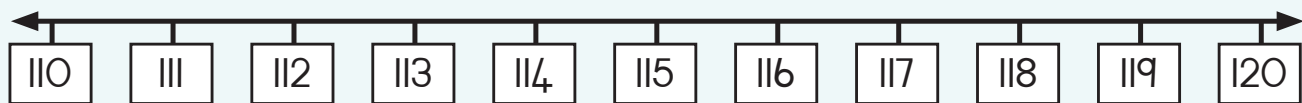
Ni elelwe uri ni tea u sedza dziyuniti musi ni tshi sendedza tsini na IO ya tsinisa.



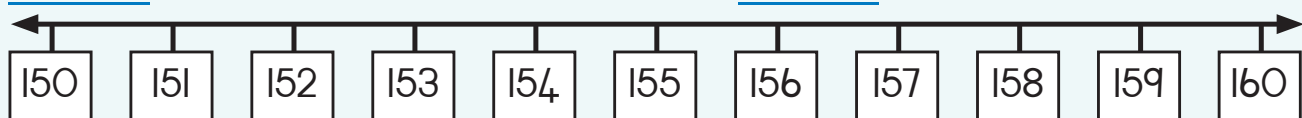
Sendedzani tsini na IO ya tsinisa.



114 yo sendedzwa tsini ndi? _____ 117 yo sendedzwa tsini ndi? _____

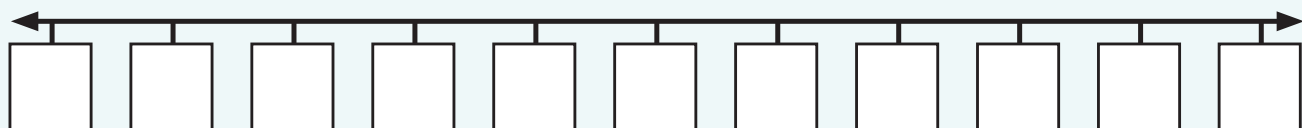


159 yo sendedzwa tsini ndi? _____ 151 yo sendedzwa tsini ndi? _____

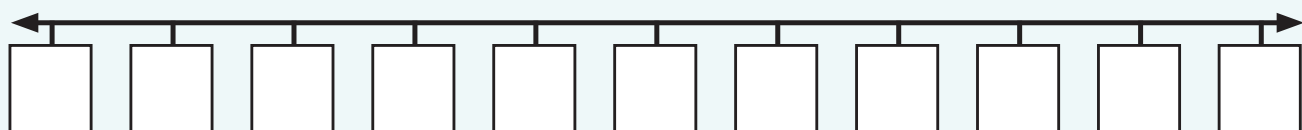


Sendedzani tsini na IO ya tsinisa.
Olani mutalombalo wa inwi mune.

195



945





Sendedzani tsini na 10 ya tsinisa.

Ni sa athu isa tsini:

- niwalani 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 b. 583 c. 415 d. 848 e. 612

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



Ndi do shumisa noutu nngana dza RIO?

Mbali na khonani dzawe dza 8 vha khou ya vhuṭamboni ha duvha la u diphina la tshikolo. Duvha 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: _____

113

Muandiso na mukovho: u swika kha 100

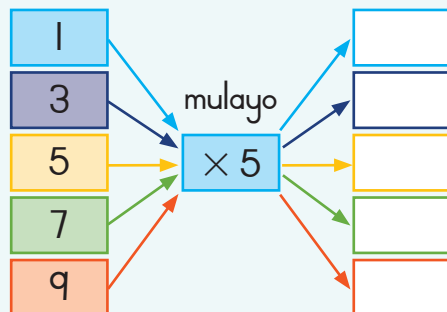
Themo ya 4



Fhedzisani nyolo ya muelo.

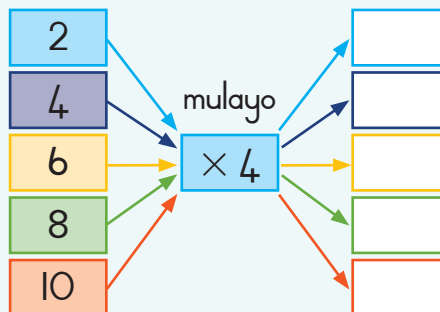
nomboronzheniswa

nomboromviswa



nomboronzheniswa

nomboromviswa



Fhedzisani thebulu i re afho fhasi:

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



Rekanyani:

$$12 \times 5$$

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

$$= 50 + 10$$

$$= 60$$

$$11 \times 5$$

$$13 \times 5$$

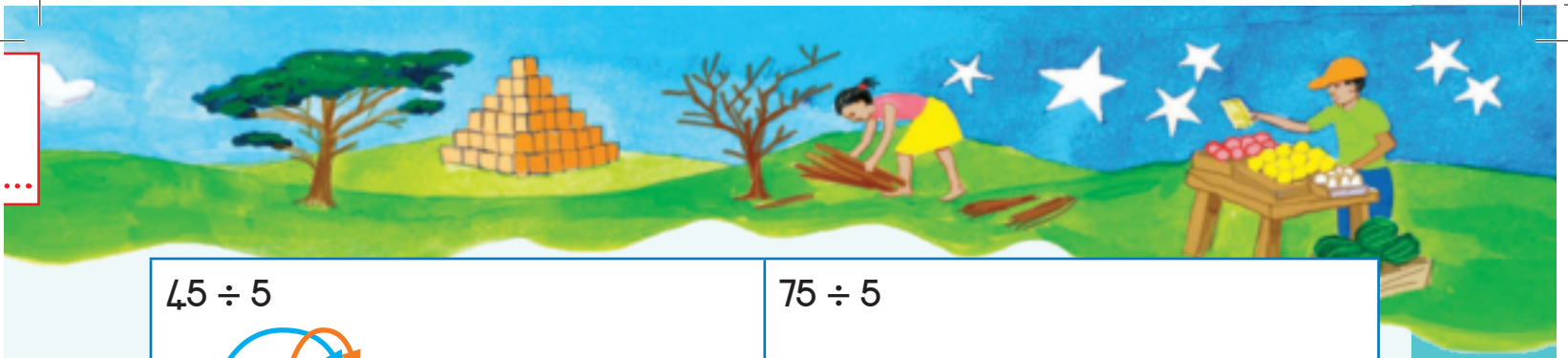
$$= (10 + 3) \times 5$$

$$= 50 + 15$$

$$= 50 + 10 + 5$$

$$= 65$$

$$13 \times 5$$



$$45 \div 5$$

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

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

$$= 8 + 1$$

$$= 9$$

$$75 \div 5$$

$$48 \div 5$$

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

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

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

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

$$13 \div 5$$



Tandululani mbalo dzi tevhelaho:

Ngade ya miroho i na rou dza 14 dza zwimela.

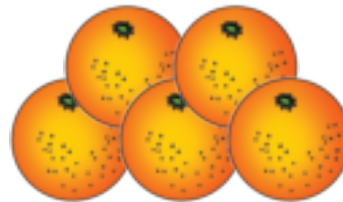
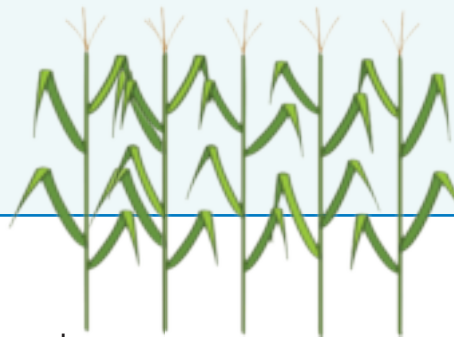
Rou inwe na inwe i na tshivhalo tshi no fana tsha zwimela.

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

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

U na maswiri a 85.

A nga dadza zwikedzi zwingana.



11 12 13 14 15 16 17 18 19 20

Phetheni dza nomboro: ṭhanu u swika kha 1 000

Themo ya 4

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

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



Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

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



Rekanyani.

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



Bobo ya nomboro 901 u swika kha 1 000.

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



Nwalani nomboro dzi no khou t̃ahela.

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



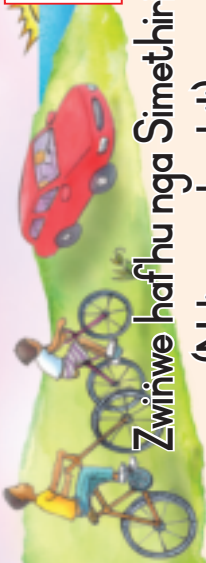
Fhedzisani phetheni.

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

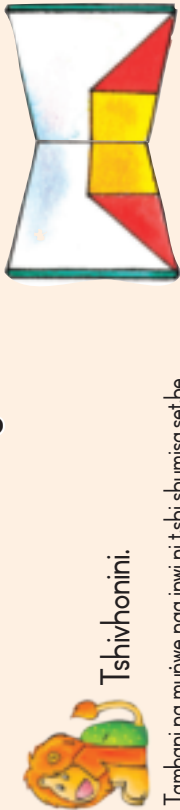


Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20



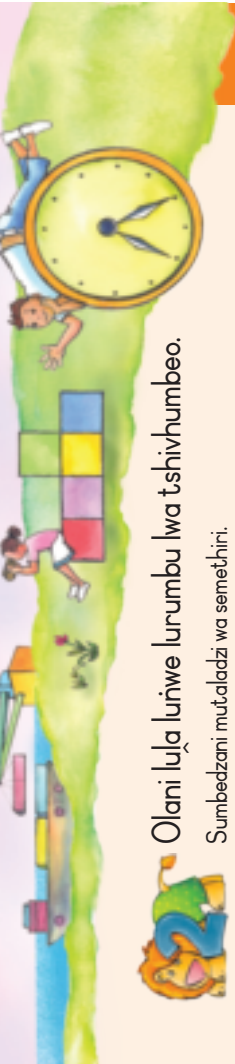
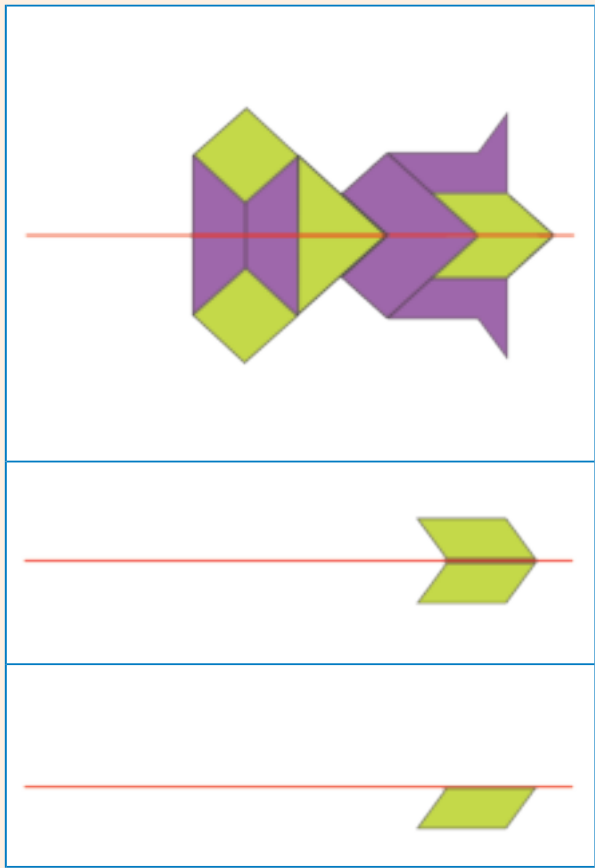
Zwiwe hafhu nga Simethiri (Ndinganhuvhili)



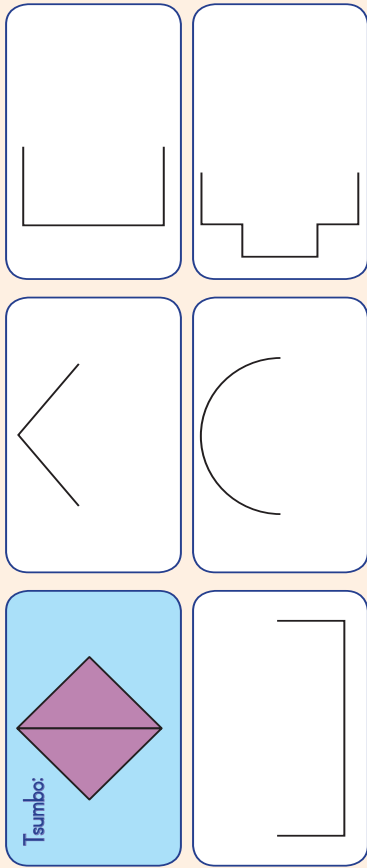
Tshivhonini.

Tambani na muwe nga inwi ni tshi shumisa sethe dza phazili dza dzithaili (zzipida zwa 14) zwi no bva kha Tshigeriwa 10.
Mutambi muwe na muwe u na hafu ya zzipida (zzipida zwa 7) zwa phazwili ya dzithaili.
Zzipida a zwo ngo tea u fana.
Talani mutaladzi vhukati ha tshipida tsha bambiriri. U go vha wone "mutalo wa murunzi".
Mutambi wa u thoma u vhea tshithihi tsha zzipida zwawe tsini na mutalo.

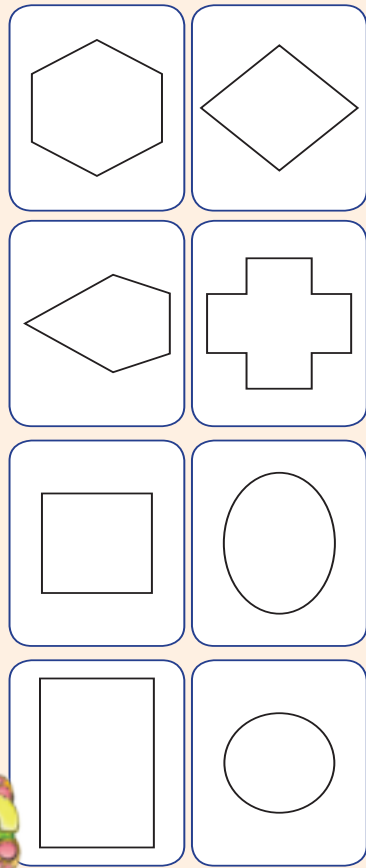
Zwino mutambi wa vuvhili u vhea murunzi wa itshi tshipida kha luwe lurumbu lwa mutaladzi.
Tshi tea u kwama mutaladzi kana tshinwe tsha zzipida zwo no vhwaho.
Isani phanda u swika zzipida zwothe zwo no fhelela.



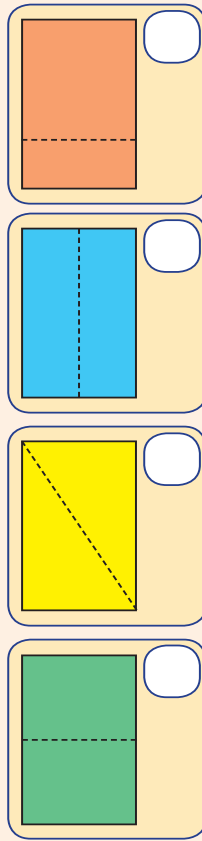
Olani luḽa luwe lurumbu lwa tshivhumbeo.
Sumbedzani mutaladzi wa semethiri.



Talani mutaladzi wa simethiri wa zwi tevhelelaho:



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



Teacher:

Sign:

Date:

Phetheni dza nomboro: mbili u swika kha 900

Kha ri vhale nga t̃hanu u bva kha 802 u swika kha 900.

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

Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni if hio?

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

Rekanyani.

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

Odo na ivini.

a. Itani (X) 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 t̃ganganya nomboro mbili dza odo. Ni wana nomboro ya _____.

Na t̃ganganya nomboro mbili dza ivini. Ni wana nomboro ya _____.

Na t̃ganganya nomboro tharu dza odo. Ni wana nomboro ya _____.



U t̃avha miri.

Hei ndi inwe n̄dila ya u t̃avha miri ya 48 kha rou dzi no edana.



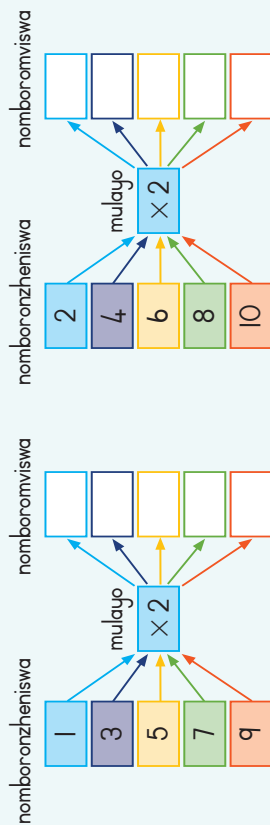
Ri nga n̄wala: $2 \times 24 = 48$ (rou dza 2 dza miri ya 24 = 48) kana $48 \div 2 = 24$ (miri ya 48 yo vhambela kha rou dza 2 dzi no lingana i ri fha miri ya 24 kha rou nthihi). Vhalani rou na miri zwi re tshifanyisoni tshiinwe na tshiinwe afho fhasi. Nwalani fhungombalo la x na a ÷ ni tshi livhanya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

a. _____ × _____ = _____	_____ ÷ _____ = _____	_____ × _____ = _____	_____ ÷ _____ = _____
b. _____ × _____ = _____	_____ ÷ _____ = _____	_____ × _____ = _____	_____ ÷ _____ = _____
c. _____ × _____ = _____	_____ ÷ _____ = _____	_____ × _____ = _____	_____ ÷ _____ = _____
d. Wananani inwe n̄dilavho ya u t̃avha miri ya 48 kha dzirou.	_____ × _____ = _____	_____ ÷ _____ = _____	e. Wananani inwe n̄dilavho ya u t̃avha miri ya 48 kha dzirou.
	_____ × _____ = _____	_____ ÷ _____ = _____	



Muandiso na mukovho: mbilimbili (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 $= (10 + 2) \times 2$ $= 20 + 4$ $= 24$	11×2
18×2 $= (10 + 8) \times 2$ $= 20 + 16$ $= 20 + 10 + 6$ $= 36$	22×2

Tandululani mbalo dzi tevhelaho:

Ngade ya miroho i na rou dza 32 dza zwimela.

Rou inwe na inwe i na zwimela zwa 2.

Hu na zwimela zwingana ngadeni?

Ngade ya miroho i na rou dza 40 dza zwimela.

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

Aradi hu na t'hanganyelo ya zwimela zwa 80, hu na zwimela zwingana kha rou inwe na inwe?

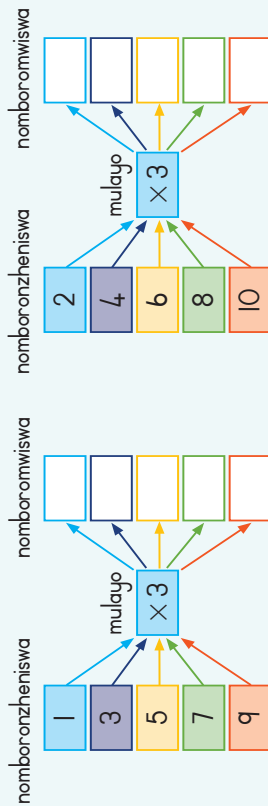


Teacher: _____
Sign: _____
Date: _____

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

Themo ya 4

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
3										



Rekanyani:

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



Tandululani mbalo dzi tevheldho:

Musiwa u na malegere a 30.

A fhirira a Jacob kafumi.

Jacob u na malegere mangana?

Ngade ya miroho i na rou dza 29 dza zwimela.

Rou iriwe na iriwe i na zwimela zwa 3.

Hu na zwimela zwingana ngadeni?



Teacher: _____
Sign: _____
Date: _____

Phetheni dza nomboro:

tharu u swika kha 1 000.

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

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

Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

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

Rekanyani.

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

Bodo ya nomboro 901 u swika kha 900.

901		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	970
	972	973		975	976		978	979	
981	982		984	985		987	988		990
991		993	994		996	997		999	1000

Nwalani nomboro dzi no khou tahela.

Khaḽarani zwiḽojoko zwi re na nomboro i no khou tahela nga muvhala mudala.

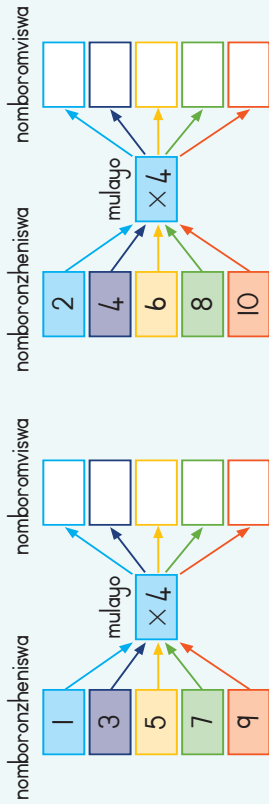
Khaḽarani zwiḽojoko zwiḽshena nga muvhala mutswuku. Ni kona u vhona phetheni ifhio?

Fhedzisani phetheni.

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

Muandiso na mukovho: dziinga u swika kha 100

Fhedzisani nyolo ya muelo.



Fhedzisani thebulu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
4										

Rekanyani:

12×4	11×4
$= (10 + 2) \times 4$ $= 40 + 8$ $= 48$	
13×4	15×4
$= (10 + 3) \times 4$ $= 30 + 12$ $= 30 + 10 + 2$ $= 52$	

$$\begin{aligned}
 48 \div 6 &= (40 + 8) \div 4 \\
 &= (40 \div 4) + (8 \div 4) \\
 &= 10 + 2 \\
 &= 12
 \end{aligned}$$

$$64 \div 4$$

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

$$49 \div 4$$



Tandululani mbalo dzi tevhelaho:

Mulafedzi u na mategere a 36.

U ja mategere a 4 dluha linwe na linwe.

A nga ja mategere maduvha mangana?

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

U na maswiri a 88.

A nga kona u dadza phakhethe nngana?



Phetheni dza nomboro: ngannga (dziinga) u swika kha 1 000

Kha ri vhole nga ngannga 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 mudda:	U vholela nga _____.
Nwalani phetheni:	_____
Dzo tangedzelwaho nga muvhala wa phephulu:	U vholela 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 zwi buloko zwi re na nomboro i no khou tshela nga muvhala mudda.

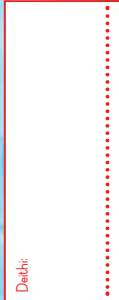
Khalarani zwi buloko zwi tshena nga muvhala mutswuku. Ni kona u vho na phetheni ifhio?



Fhedzisani phetheni.

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

Teacher: _____
Sign: _____
Date: _____



Zwipida zwi no lingana zwa yothhe

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

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



Wanani dziuwe ngila dzo fhambananaho dza u vhumba hafu nthihi.

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



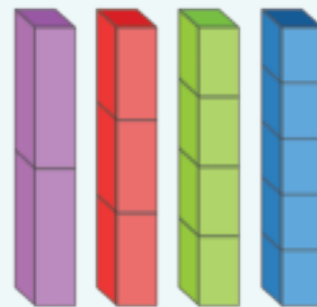
Zwipida zwi no lingana zwa tshothe hafu.

Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 2 zwi lingano, izwo zwipida ri zwi vhidza dzihafu.

Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 3 zwi lingano, izwo zwipida ri zwi vhidza zwararu.

Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 4 zwi lingano, izwo zwipida ri zwi vhidza dzikota kana zwaija.

Musi ri tshi khethekanya tshithu tsha bva zwipida zwa 5 zwi lingano, izwo zwipida ri zwi vhidza zwatshanu.



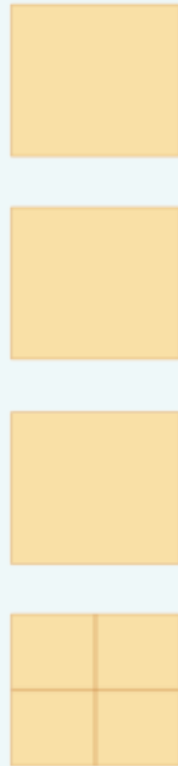
Sangwetshi dza tshiswitulo.

Thendo na khanani dzawe dza 3 vha a ita sendiwitshi nzhzi dza tshiswitulo.

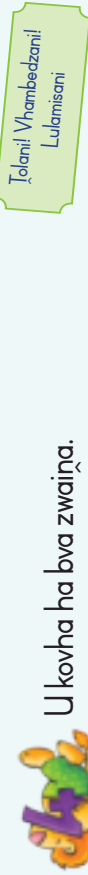
Vha dzi tshea nga dzikota na zwaija kana dzikota.

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

Iwe ngila asiwi. Sumbadzani dziuwe ngila tharu dzine na nga zwi ita ngadzo.

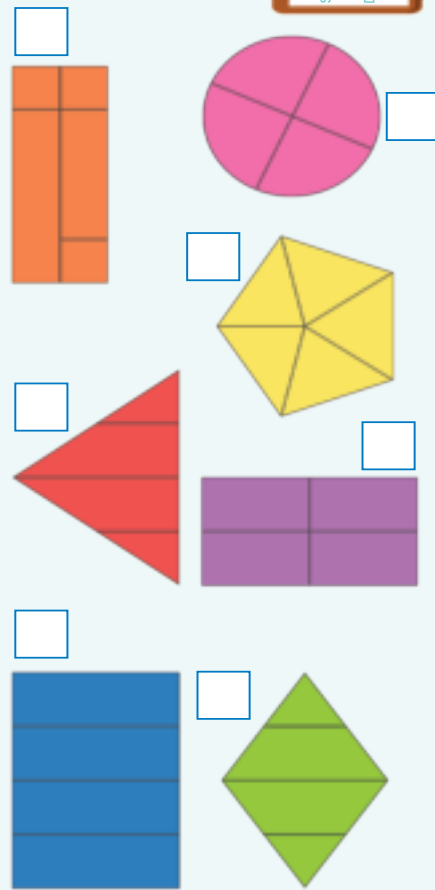


U kovha ha bva zwaija.



Tolani! Vhambadzani! Lulamisani

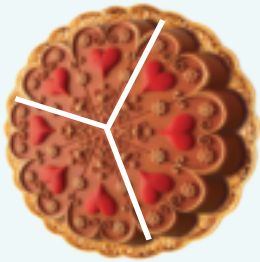
Musi ri tshi gera tshithu tsha bva dzikota ($\frac{1}{4}$ s), ri tshi khethekanya tsha bva zwipida zwa 4 zwi lingano. Ndi tshifanyiso tshifhio tshi sumbadzaho dzikota kana zwa inga? Nwalani ee kana hai tsini na nomboro.



Teacher: _____
Sign: _____
Date: _____

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 vhatambi vha 14.

U tea u vha e na maswiri mangana? _____

Mbudziso ndi ifhio? _____

Nomoro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi li re khii ndi ifhio? _____

Olani tshifanyiso. _____

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



Phindulo ndi ifhio? _____



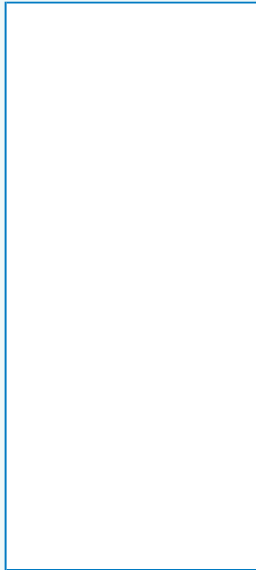
b. Mme anga vha fha nne na khonani dzanga dza fuminthihi koka ya opula muthu muthihi.

Vha tea u vha vhe na maapula mangana? _____

Nomoro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi li re khii ndi ifhio? _____

Olani tshifanyiso. _____



Phindulo ndi ifhio? _____

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

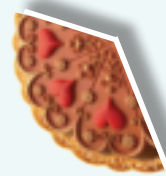
Vha rengisela vathu vha 24 zwilai zwa khekhe.

Vho rengisa khekhe nngana? _____

Nomoro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi li re khii ndi ifhio? _____

Olani tshifanyiso. _____



Phindulo ndi ifhio? _____

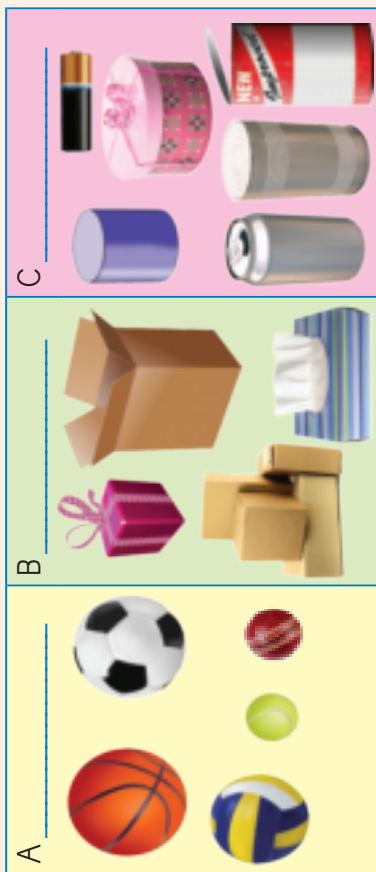




Zwithu zwa 3-D

Lavhelesani zwifanyiso.

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



Wanani zwifanyiso zwihili zwa tshinwe na tshinwe ni zwi nambatedze.



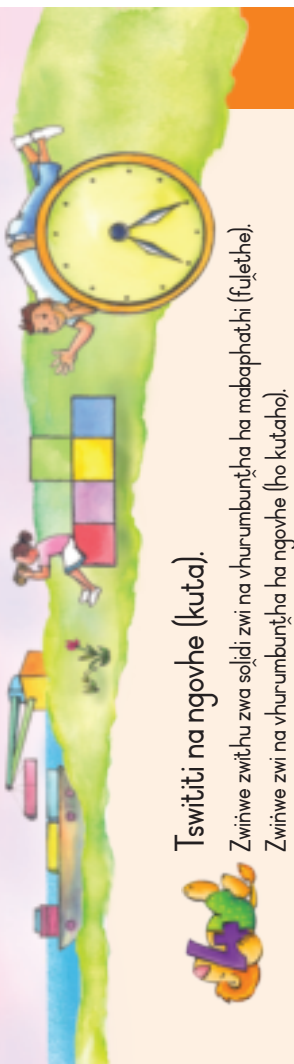
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Talelani phindulo i re yone.

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

Deke



Tswititi na ngovhe (kuta).

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

Zwinwe zwi na vhurumbuntha ha ngovhe (ho kutaho).

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



Ukunguluwa.

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

Kha zwithu zwa 3, ndi tshifhio tshine:

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

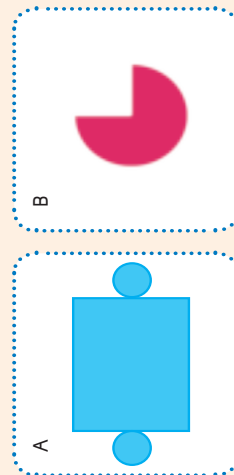


Nete ndi mini?

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

Nwalani ledere la nete line la petea la vhumba khounu.

Nwalani ledere la nete line la petea la vhumba silinda.



Furakhisheni haf'hu

Bulani dzina la furakhisheni.

Nwalani furakhisheni ya zwi fanyiso zwi re afho fhasi.

	a. Zwa lutombo ndi furakhisheni ifhio? _____
	b. Zwiidla ndi furakhisheni ifhio? _____
	c. Zwa lutombo ndi furakhisheni ifhio? _____ d. Zwa tada ndi furakhisheni ifhio? _____



Fhindulani mbudziso.

- Sizwe u na zipiḡa zwiṇa zwa tshokoleithi. U fha khonani yawe tshithihi.
Ho sala furakhisheni ifhio ya tshokoleithi?
- Yasmin u na maswiri mavhili. O kovhekana lithihi na Ann.
Ho sala furakhisheni ifhio?
- Maria u nenga mabophathi a 5 a tshokoleithi. U divhetshe la l. a fha Mohammed a 2, na khaladzi awe a mu fha a 2. Maria u divhetshe la furakhisheni ifhio?



Luvhondo lwa furakhisheni.

The diagram illustrates the number 12 as a collection of blocks. It consists of 10 full columns and 2 partial columns. The full columns are colored as follows: 2 red, 2 orange, 2 yellow, 2 blue, 2 green, 2 purple, 2 light green, and 2 dark green. The two partial columns on the right are each divided into 10 equal horizontal segments, with each segment labeled $\frac{1}{12}$.

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

(12) Lebulani dzila dzinwe rou nga furakhisheni dzi re dzone.

Shumisani nula kana lumemetswiti iwa bammbiri kha u wana uri ndi furakhisheni dzifhio dzi no
lingana, khatihili na u ni thusa u ffindula hedzi mbudziso.

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

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

Tolani! Vhambedzani!
Lulamisani



Uvheannga zwigwada na u kovhana hafhu



Mirekanyotshihadu.

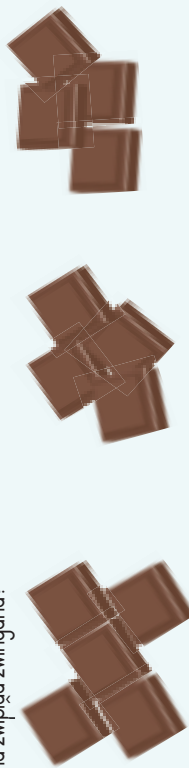
Todani vhushaka.

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



Kovhekanana zve zwa sala.

Ntakadzeni na Livhu vha khau toda u kovhekana zwpida zwa 13 zwa tshokoleithi. Muñwe na muñwe u wana zwpida zwingana?



Vha nga kona fhedzi u kovhekana kwekwea zwo fhelelaho zwa 12, muñwe na muñwe u wana zwa rathi. Tshipida tsho salaho vha tshi pagula nga vhukati, zwiwo muñwe na muñwe u wana zwpida zwa 6½.



- a. Vhana vha 10 vha re phathini vha kovhekana zwiñiripi zwa swigiri zwa 25. Kovhekanani kwakwakwa! Olani tshifanyiso uri tshi ni thuse.

Muñwe na muñwe u wana zwiñiripi zwa _____

- b. Kovhelani vhana vha 4 zwiñiripi zwa 37.

Muñwe na muñwe u wana zwiñiripi zwa _____

- c. Kovhelani vhana vha 5 zwiñiripi zwa 48.

Muñwe na muñwe u wana zwiñiripi zwa _____

- d. Kovhelani vhana vha 10 zwiñiripi zwa 73.

Muñwe na muñwe u wana zwiñiripi zwa _____



Furakhisheni dza Thangeramu

Thangeramu ndi phazili ya kale ya Tshitshaina yo itwaho nga zwiwumbao zwa 7 zwa mabophatshi, zwine zwa vhidzwa upfi ndi dzithenge, zwothe zwi vhwela fhatshu huthihi uri zwi vhumbe zwiwumbao zwo fhambananaho.

Furakhisheni kha thangeramu.

	Lavhelesani phazili ya thangeramu. Inwe na inwe ya thiraiengele mbili khulwane i ita furakhisheni ifhio ya tshikwea tshothe? (Dza pinki tshifanyisoni itshi.)	_____
	Aradi na nga peta nthihi ya thiraiengele khulwane ya bva zwipida zwiwihili zwi no lingana, tshipida tshinwe na tshinwe tshi lingana na thiraiengele ya saizi ya vhukati (Ya tšaga tshifanyisoni). Thiraiengele ya vhukati ndi furakhisheni ifhio ya tshikwea tshothe?	_____
	Aradi na peta thiraiengele ya vhukati ya bva zwipida zwiwihili zwi no lingana, tshipida tshinwe na tshinwe tshi lingana na thiraiengele mbili tshukhu. (Dza muvhala muddala tshifanyisoni). Thiraiengele inwe na inwe tshukhu ndi furakhisheni ifhio ya tshikwea tshothe?	_____
	Ni nga kwakwanjisa thiraiengele mbili tshukhu uri ni vhumbe tshikwea tshituku. Tshikwea tshituku ndi furakhisheni ifhio ya tshikwea tshothe (tshidala tshifanyisoni)?	_____
	Ni nga kwakwanjisa thiraiengele mbili tshukhu uri ni vhumbe pharalelogireme. Pharalelogireme ndi furakhisheni ifhio ya tshikwea tshothe?	_____

U shumisa thangeramu.

Gerani thangeramu kha Tshigeriwa 12 ni nwele furakhisheni ya tshikwea tshothe ni lebele tshipida tshinwe na tshinwe. (Hezwi ndi zwipida zwa kale na kale/zwa u thomani zwa zwiwumbao zwa Thangeramu). Nivalandi dzina lanu nga murahu ha tshipida tshinwe na tshinwe, u itela uri ni kone u wana zwipida zwanu murahu musi no no fhedza u tamba.

Mutambo wa furakhisheni wa mikovhe i no lingana.

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

1. Vhatambi vha sielisana kha u vha vharengisi.
2. Murengisi ndi ene ane a ta uri muniwe na muniwe wa vhatambi u dzhenisa furakhisheni ifhio ya thangeramu yothhe kha tshikwama (khithi).
3. Mutambi muniwe na muniwe u a humbulela uri khoini i do wa nga tsho 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 vhatshu vha nga tea u tshintshisa tshipida tshithihi kana zwinzhi nga tshinwe kana zwinwe zwi re na mutengo u no fana/muthihi.)
5. Zwo salaho zwa zwa si kone u kovhiwa zwi sala tshikwamani u itela raundu i tevhelaho.
6. Vhatambi vhothe vha a tala uri u kovhekana hu khou itwa nga ndila yone naa.
7. Aradi mutambi a nga vhwana vhuakhaki, murengisi u a latisiwa nga u badeliswa $\frac{1}{8}$ ya tshikwea tshothe a tshi badela mutambi we a vha ene wa u thoma u vhwana vhuakhaki.
8. Mutambi ane a si vhe na zwipida a nga tusa tshithihi kha zwo salaho tshikwamani.
9. Mutambo u a ya phanda u swika mutambi muniwe na muniwe o vha murengisi.

Muniwe na muniwe u tea u dzhenisa kona nthihi ya thangeramu ngomu tshikwamani.

Ndi do dzhenisa thiraiengele nthihi khulwane.

Zwiwihili zwamalo zwi lingana na tshithihi tshaina. Ndi nga kona u dzhenisa tshikwea na pharalelogireme.

Uela khaphasithi (ngalo)



Shumisani
tshifaredzi tsha
bodelo la pulasitiki
na khaphu.



khaphu nthlihi
(250 ml)

Ni vbona u nga tshifaredzi tshi
tshi nga dala nga khaphu ngana?

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

tshifaredzi tsha litha ya l



Itani litha.

Wanani ndila ya u ita litha ni tshi shumisa zwiludi zwa mielo yo fhambananaho.

Nwlani fhungombalo la ndila inwe na inwe.

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



Fhungombalo

= 1000 ml (1 l)

Fhungombalo

= 1000 ml (1 l)

Fhungombalo

= 1000 ml (1 l)

Fhungombalo

= 1000 ml (1 l)

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

Khaphasithi ya khaphu ndi
O ngeno volumu ya khaphu
ye ya dadziwa il.

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

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



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

Khaphu ya muelo wa mishonga i ita 10 ml, i no lingana
na zwilebula zwiituku zwiivhili.

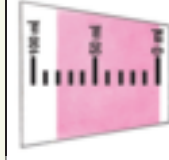
Ri ela mielo minzhi ya zwiludi nga dzilitsha (l).

Hu na mlilitsha dza zwigisi kha litha nthlihi.

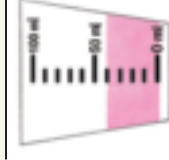


Hu na zwiludi zwingafhani?

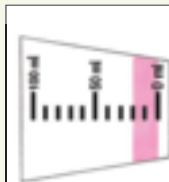
Hu na ml ngana dza zwiludi dzhegeni inwe na inwe?



ml



ml



ml



Hu na zwiludi zwingafhani?

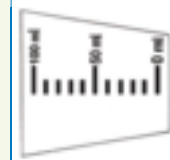
Swifhadzani khaphu
dza mishonga ni tshi
sumbedza tshivhalo
tshi re kha inwe
na inwe.



50 ml



10 ml



70 ml

Teacher:
Sign
Date

Pimani ni shele

Mutamboni.

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

a. Ndi vha tambi vhangana vhané nga kovhekana?

Lit̪ha ya 1 Lit̪ha ya 4 Lit̪ha ya $2\frac{1}{2}$

b. Vha t̪oda dzhusi nngafhani ya?

Vhatambi vha 8 Vhatambi vha 9 Vhatambi vha 12

Lit̪ha na miliit̪ha (ml)

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

125 ml = ya lit̪ha 50 ml = ya lit̪ha

Itani hafu ya lit̪ha.

Itani thiki (✓) kha zwiwalo zwa 3 zwine zwa ita hafu ya lit̪ha.

120 ml	140 ml	160 ml	28 ml	240 ml

Mafhi a ni fha mutakalo!

Kovhelani lit̪ha dza 4:

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

Bara ya Dzhusi ya Vhonani.

Uri a d̪adze dzhege ya 1. Bong'i 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 lit̪ha.

50 ml	100 ml	200 ml	250 ml	500 ml

Ndi zwingana zwa tshifaredzi tshinwe na tshinwe zwine na zwi t̪oda kha u ita lit̪ha?

- 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 ḡirinkhi dzo salaha.

Ho sala dzhusi nngafhani ya t̪oda?

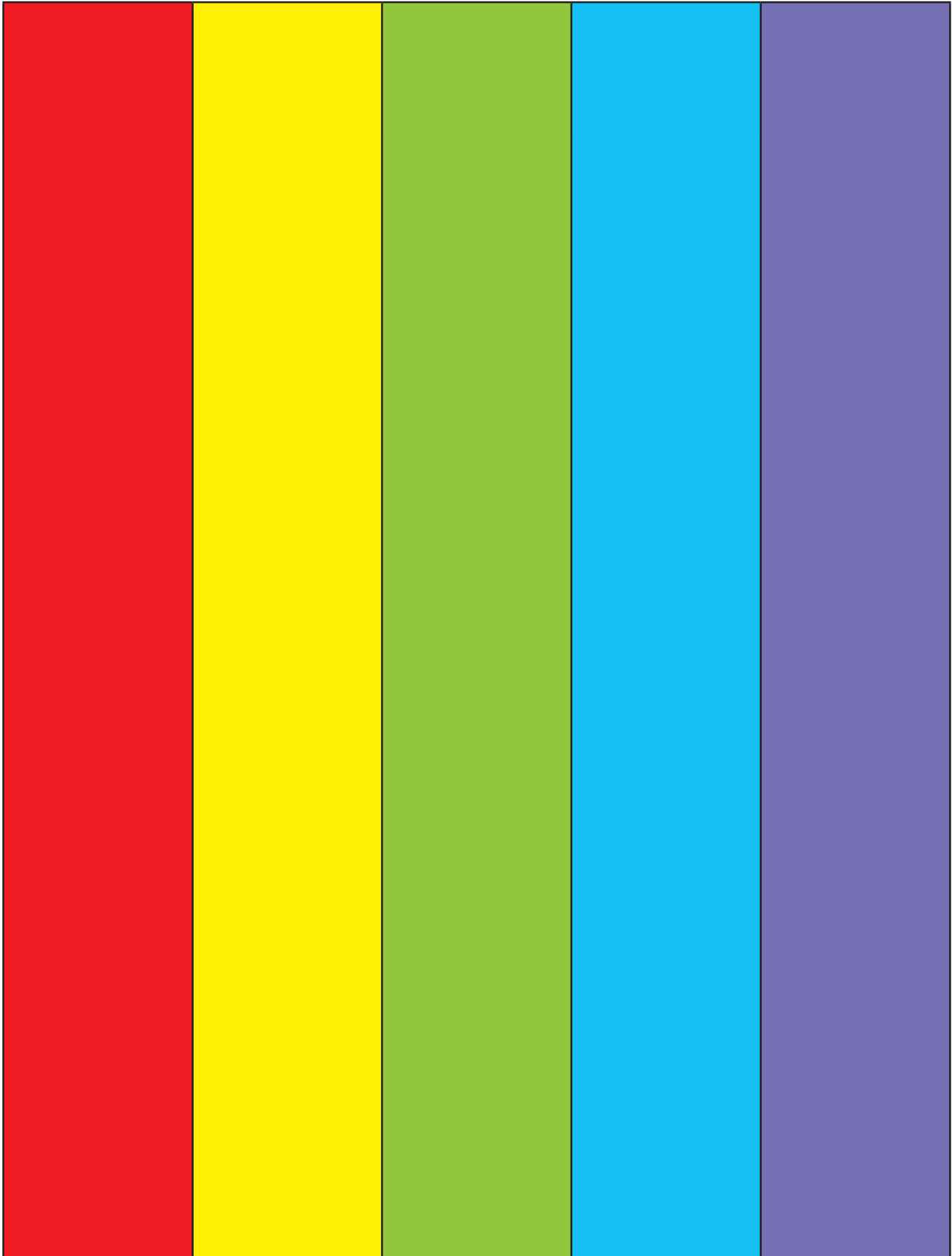
Ho sala dzhusi nngafhani ya phephul̪u?

Thandi u t̪anganjisa idzi dzhusi mbli.

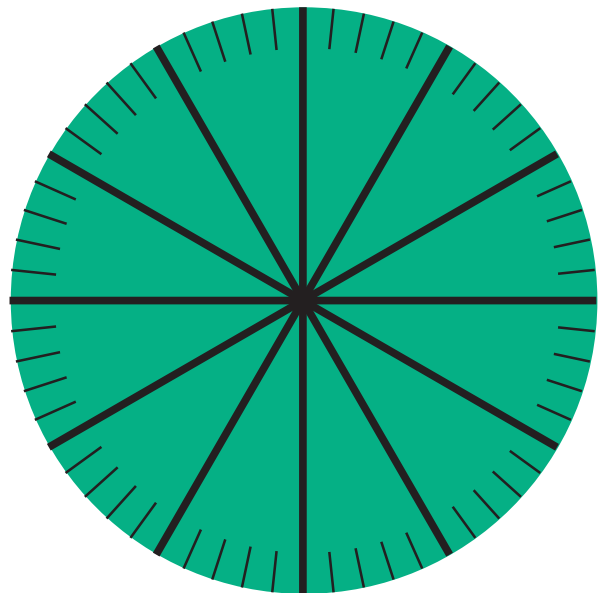
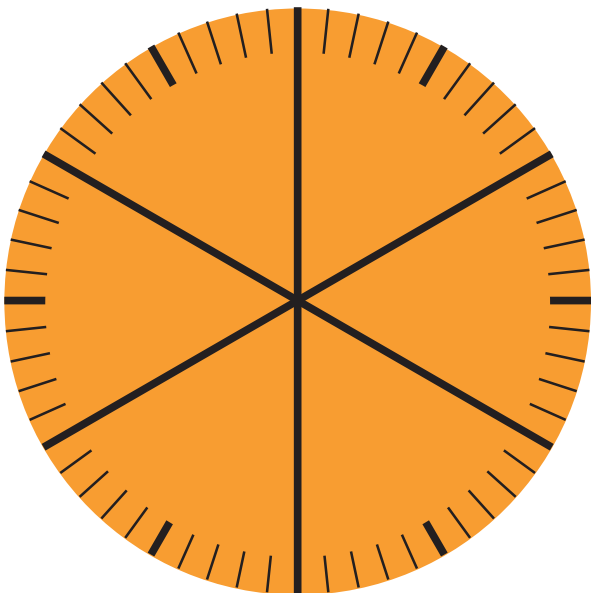
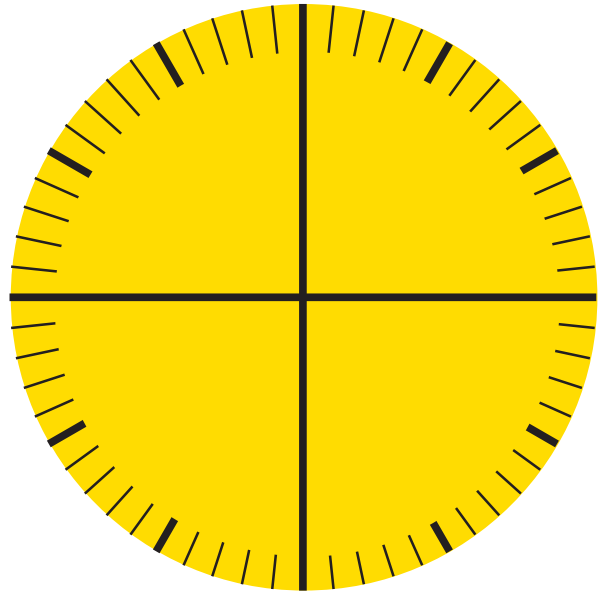
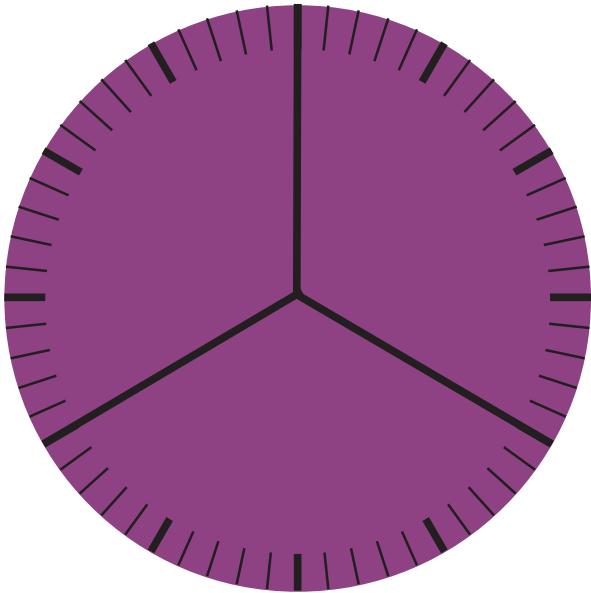
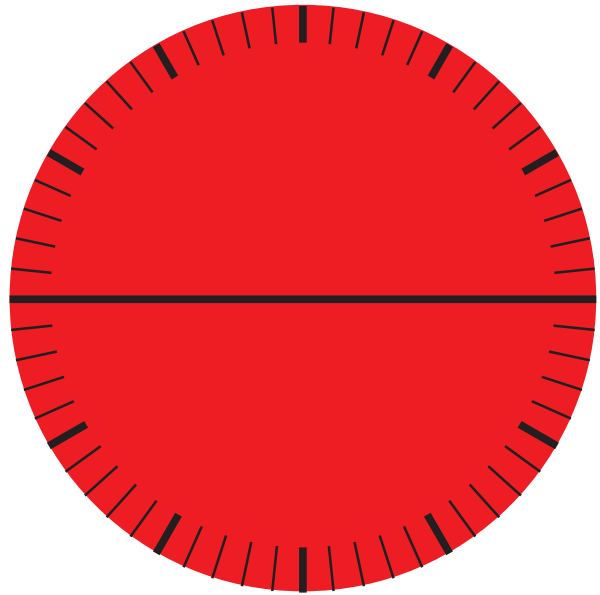
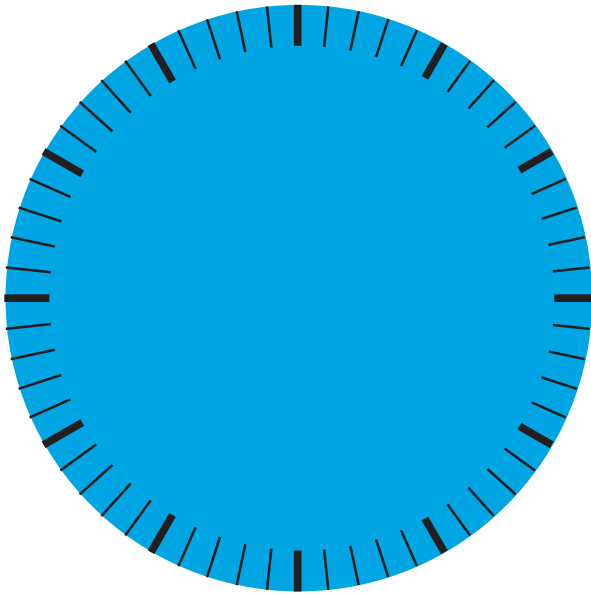
A nga d̪adze dzhege nngana?

Sedzulusani!
Vhantbedzani!
Lulamisoni!

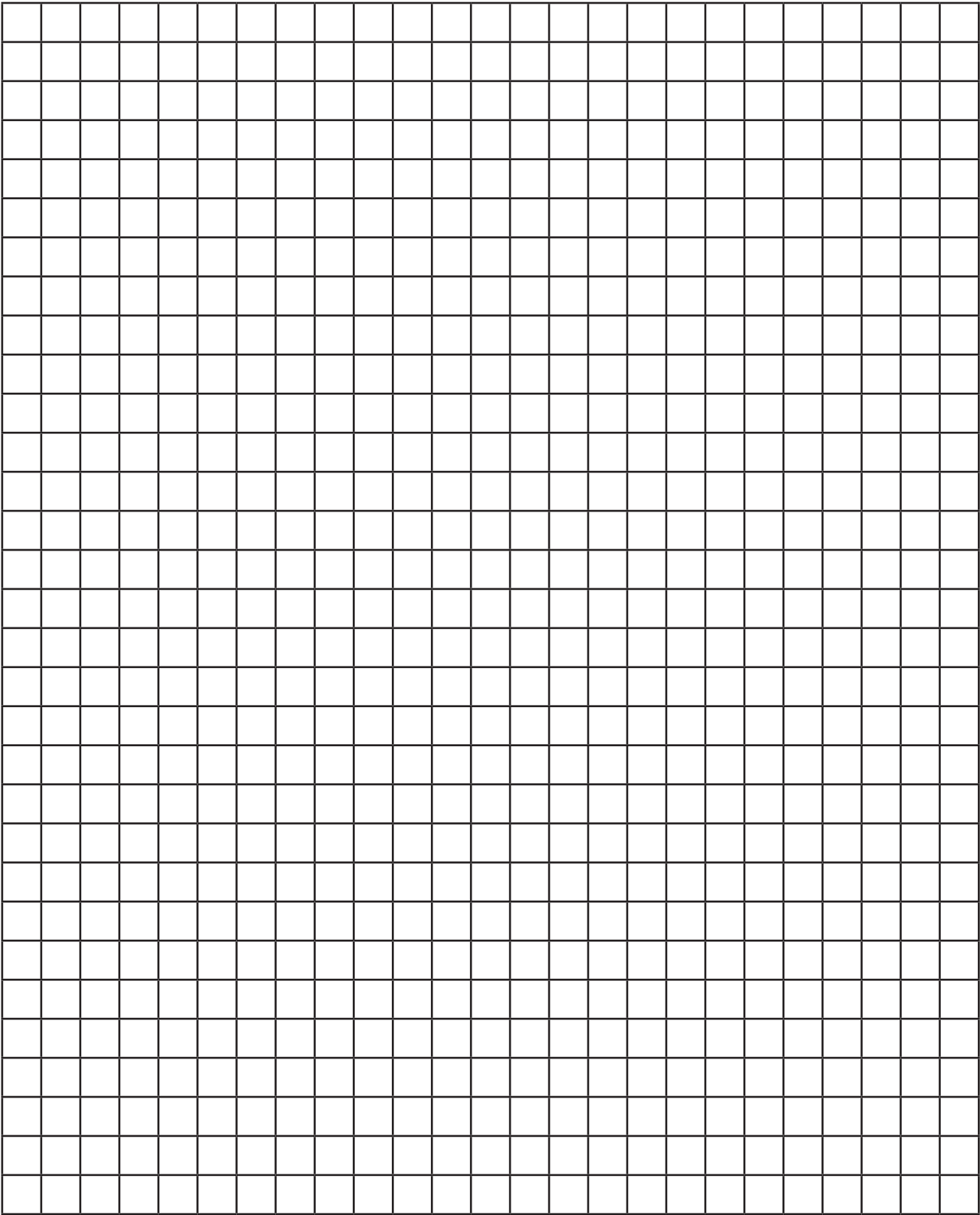
Tshigeriwa 5



Tshigeriwa 6



Tshigeriwa 7



Tshigeriwa 8

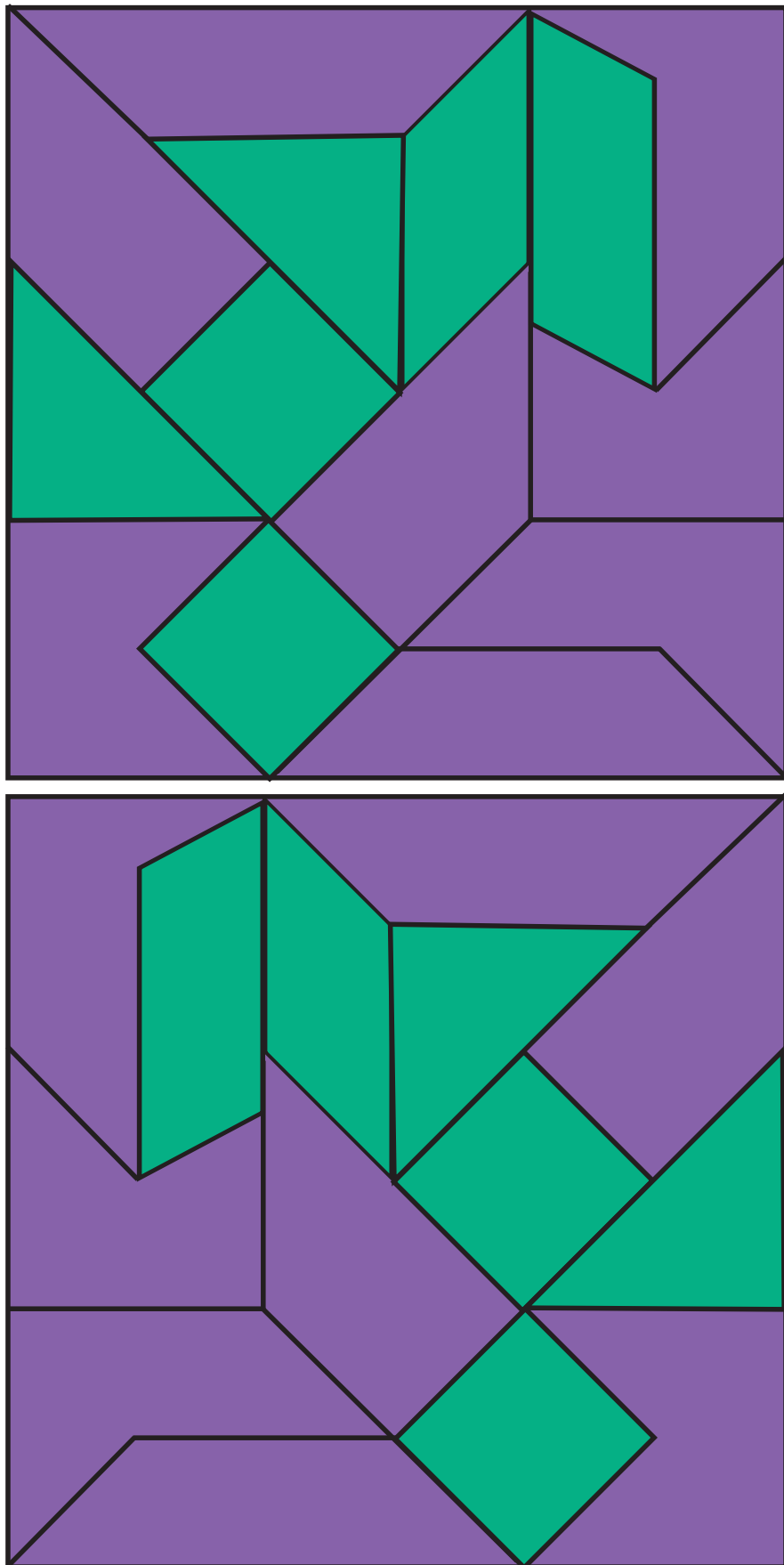
lc	
IOc	
RI _s	
RIO _s	
RIOO _s	

Tshigeriwa 9

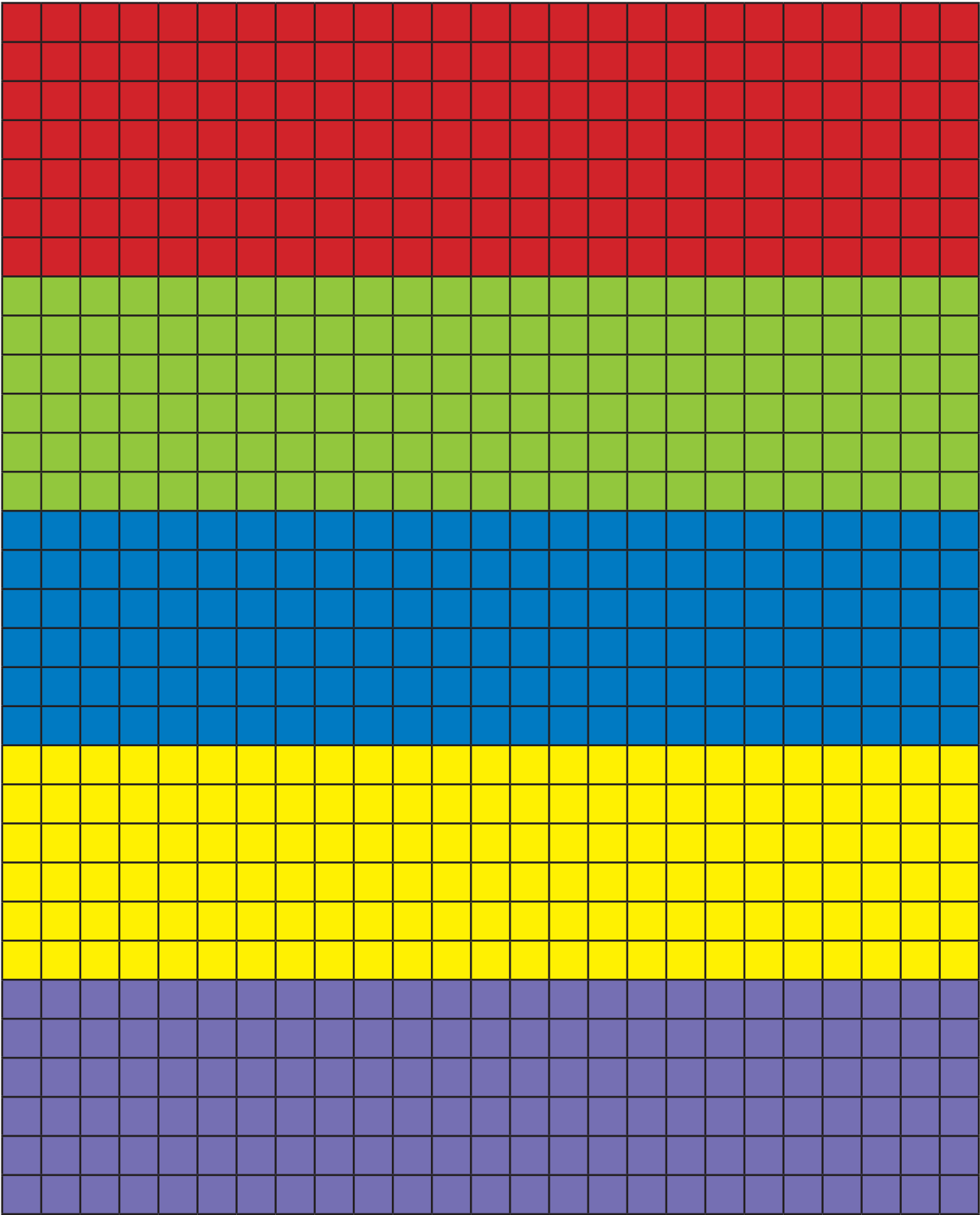
RIOO	RIOO	RIOO	RIOO
RIOO	RIOO	RIOO	RIOO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO
RIO	RIO	RIO	RIO

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

Tshigeriwa IO



Cut-out II



Cut-out 12

