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

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

Ndi milayo ine ya laya vhathu vha ḽino shango uri vha tea u farana nga nḓilaḓe. Mulayotewa wa shango wo itelwa u tsireledza roṱhe ri no khou tshila zwino na vhana vhashu vhane vha kha ḓi ḓo ḓa.

Ʈalukanyani hune ra bva hone.	Ri songo dovha vhukhakhi ha mulovha.	Mulayotewa washu u ri thusa uri ri elekanye nga vhumatshelo ha khwiṋe ha roṱhe khathihi na u vhu fhaṱa.

Riṋe, vhathu vha Afrika Tshipembe;

Ri dzhiela nṱha u shaea ha vhulamukanyi kha tshifhinga tsho fhelaho;

Ri ʈhonifha havho vhe vha tambulela vhulamukanyi na mbofholowo kha shango ḽashu;

Ri ʈhonifha havho vhe vha shuma vha tshi itela u fhaṱa na u bveledzisa shango ḽashu; na

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

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

- Fhelise khethululo ya tshifhinga tsho fhelaho na u thoma tshitshavha tshine tsho ḓisendeka kha ndeme dza demokirasi, vhulamukanyi ha matshilisano na pfanelo dza vhuthu;
- Fhaṱe mitheo kha demokirasi na tshitshavha tshi re khagala hune
- muvhuso wo ḓisendeka kha lufuno lwa vhathu nahone vhadzulapo
- vho tsireledzwa nga mulayo nga nḓila I linganaho;
- Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhoṱhe na u vhofholola vhukoni ha muthu muṅwe na muṅwe; na
- Fhaṱa mbumbano na demokirasi zwa Afrika Tshipembe uri ḽi kone u vha fhethu ho teaho sa muvhuso wo ḓiimisaho kha muṱa wa tshaka.



Shumisani pfanelo dzaṋu sa mudzulapo wa Afrika Tshipembe ni dovhe ni vhe na vhuḓifhinduleli ha u tsireledza pfanelo dza vhaṅwe.

Ḓivhani Mulayotibe Wa Pfanelo na Mulayotibe Wa Vhuḓifhinduleli.

Mudzimu tsireledza vhathu vhashu.
Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.
God seën Suid-Afrika. God bless South Africa.
Hosi katekisa Afrika.

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Bugu ya 2
Themo 3 & 4

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	Tshigeriwa 10	



Vho Angie Motshekga
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 vhurangaphanḓa ha Minisiṱa wa Pfunzo ya Muteo, mufumakadzi Vho Angie Motshekga na Muthusaminista wa Pfunzo ya Muteo, Vho Dr. Reginah Mhaule.

Bugu dza u shumela dza Rainbow dzi vhumba tshipiḓa 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 tshiṅwe tsha zwithu zwa nṱhesa 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 dzoṱhe dza tshiofisi hu si na mbadelo.

Ri fulufhela uri vhadededzi vha ḓo vhona ndeme ya bugu idzi kha u funza havho ha ḓuvha ḽiṅwe na ḽiṅwe vha dovha vha ita uri vhagudi vha kone u khunyeledza kharikhuḽamu yoṱhe. Ro lingedza nga nḓila dzoṱhe u sumbedza vhagudisi kha nyito iṅwe na iṅwe nga u dzhenisa aikhoni dzine dza sumbedza zwine vhagudi vha fanela u ita.

Ri na fulufhelo ḽoṱhe ḽa uri vhagudi vha ḓo ḓiphina nga u shuma nga idzi bugu musi vha tshi khou aluwa na u guda, na uri vhone sa vhadededzi vha ḓo vha na mukovhe kha dakalo iḽi.

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

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TSHIVENḒA

Bugu ya 2

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65

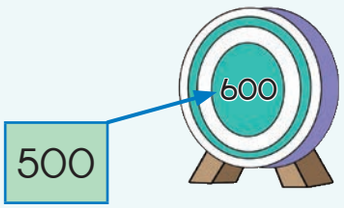
Deithi:

Nomboro 500 u swika kha 600



Vhalani ni ṅwale.

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



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

b. Ṅwalani nomboro dzi no khou ṱahela kha giridi i re afho nṱha.

c. Ṅwalani nomboro dza 10 dzi no tevhela 500.

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

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

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

e. Ṅwalani nomboro dzoṱhe dzi re kha phetheni ya dzi2 u bva kha 548 u swika kha 570.

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

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

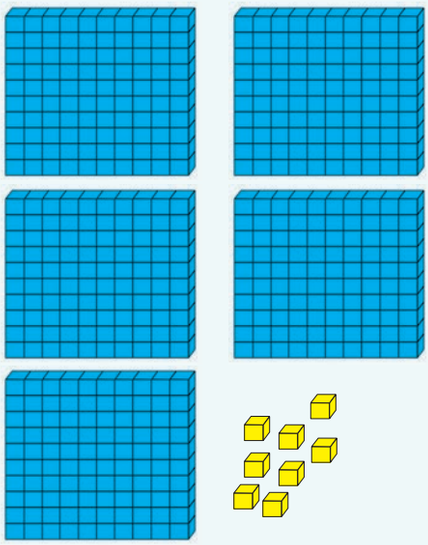
515; 520; _____; _____; _____; _____; _____; _____; _____; _____

1 2 3 4 5 6 7 8 9 10

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2 Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?

3 Fhedzisani mitalombalo.

540			543				547		549	
							597	598	599	
					597	598	599			

4 Fhedzisani thebuḽu.

	Ṅwalani u bva kha ṱhukhusa u ya kha khulwanesa	Ṅwalani u bva kha khulwanesa u ya kha ṱhukhusa
582, 586, 584, 581, 585		
566, 506, 560, 516, 506		

5 Ṅwalani zwi tevhelaho nga maipfi.

520	

Teacher:
Sign:
Date:

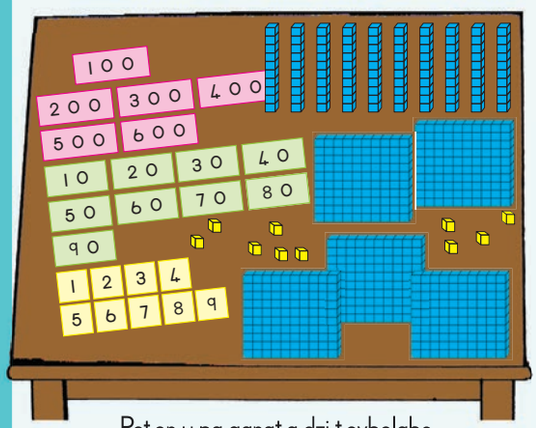
11 12 13 14 15 16 17 18 19 20

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66

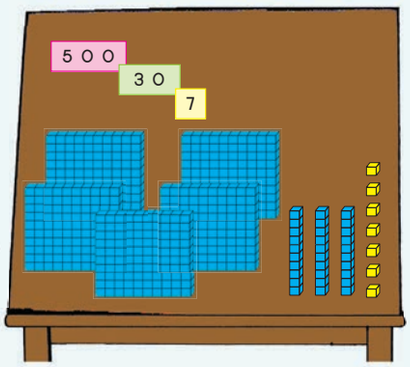
Deithi:

Nomboro dza 500 u swika kha 600 hafhu

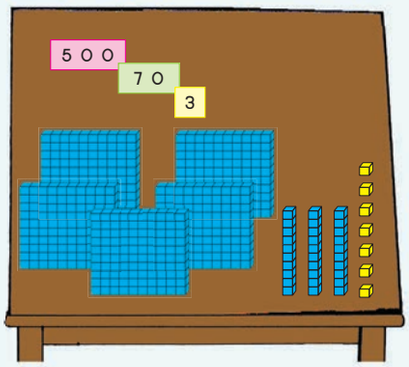


Peter u na garaṱa dzi tevhelaho dza vhuimo ha nomboro na zwibuḽoko zwa beisi ya fumi.

Mudededzi vha humbela Peter uri a sumbedze 537 nga garaṱa na zwibuḽoko.

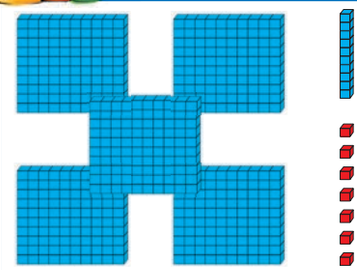
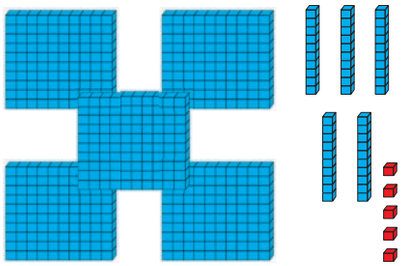


Aakar o sumbedza hezwi. O ita zwifhio zwo khakheaho?





Ṅwalani fhungombalo ni tevhedze nga phindulo.

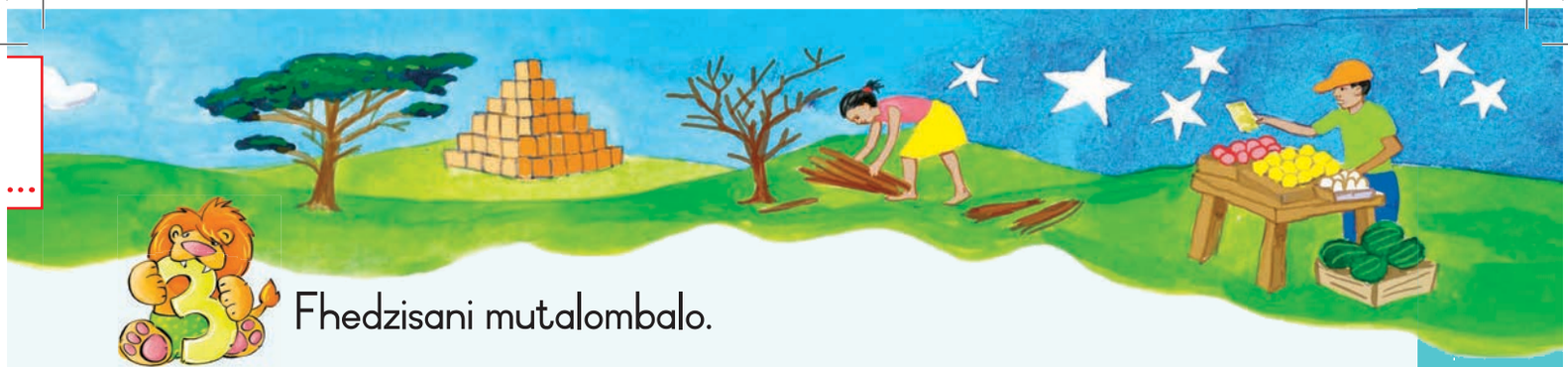
			
500 + 10 + 7 =	517		



Ṅwalani fhungombalo ni tevhedze nga phindulo.

500 + 70 + 3		
=		

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Fhedzisani mutalombalo.

550	551	552								560

Ṅwalani nomboro dzoṱhe dzi re ṱhukhu kha 556. _____

Ṅwalani nomboro dzoṱhe dzi re khulwane kha 556. _____

Paḓukanyani nomboro yaṋu.

a. Fhaṱani nomboro iṅwe na iṅwe nga magaraṱa aṋu.

b. Ṅwalani veḽu ya didzhiti iṅwe na iṅwe.

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

495	
508	
594	
549	
602	

Tsumbo: 517

5 0 0

1 0

7

5 1 7

517	500 + 10 + 7

Ṅwalani madzina a mbalo.

221	
486	
369	
419	
491	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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67

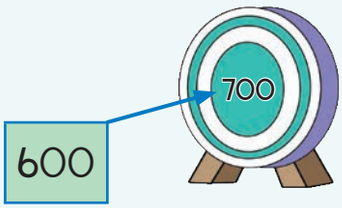
Deithi:

Nomboro 600 u swika kha 700



Vhalani ni ṅwale.

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



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

b. Ṅwalani nomboro dzi no khou ṱahela kha giridi i re afho nṱha.

c. Ṅwalani nomboro dza 10 dzi no tevhela 600.

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

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

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

e. Ṅwalani nomboro dzoṱhe dzi re kha phetheni ya dzi2 u bva kha 611 u swika kha 633.

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

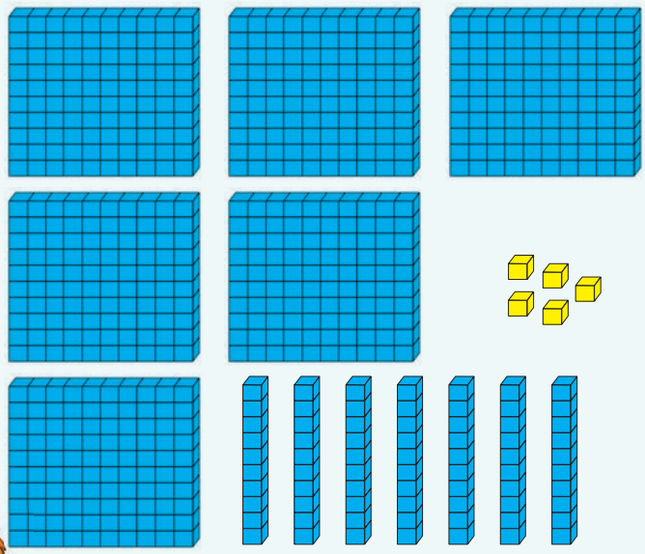
f. Ṅwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi5.

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

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2 Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?

3 Fhedzisani mitalombalo.

640			643				647		649	
							687	688	689	
					602	604	606			

4 Fhedzisani thebuḽu.

	Ṅwalani u bva kha ṱhukhusa u ya kha khulwanesa	Ṅwalani u bva kha khulwanesa u ya kha ṱhukhusa
672, 676, 674, 671, 675		
656, 605, 650, 615, 605		

5 Ṅwalani zwi tevhelaho nga maipfi.

631	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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68

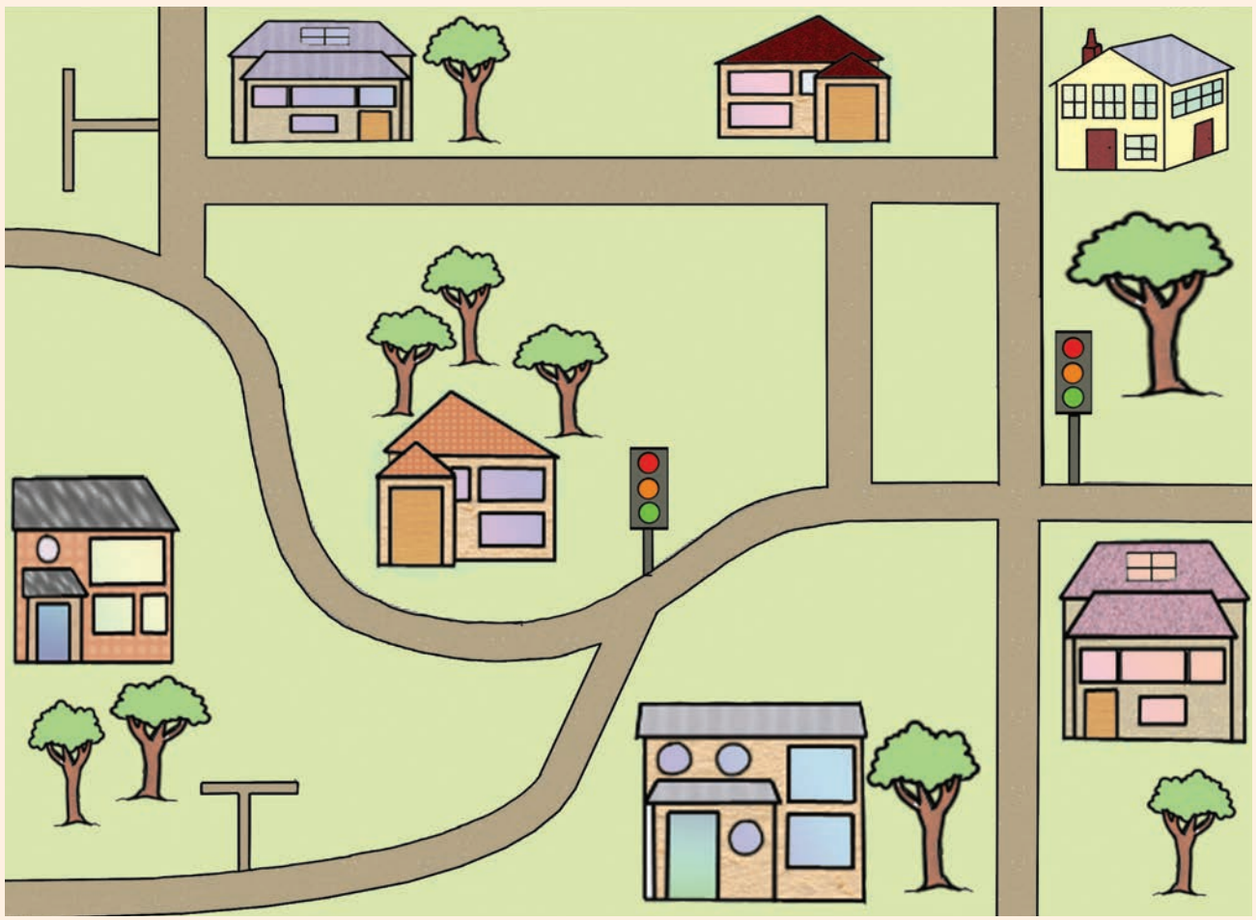
Deithi:

Mushumo wa mepe

Lavhelesani tshifanyiso.

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







Olani zwi tevhelaho kha mepe:

ḽaiburari, zwikolo, kiḽiniki, sibadela (vhuongelo), tshiṱitshi tsha mapholisa, mavhengeleni.
Ni nga kha ḓi dzhenisa zwiṅwe zwiṱaraṱa.

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Shumisani mepe u re kha siaṱari ḽo
fhiraho kha u laedza khonani dzaṋu nḓila vha tshi bva:

a. kiḽiniki vha tshi ya tshiṱitshi tsha mapholisa.

b. tshikoloni vha tshi ya kiḽiniki.

c. tshikoloni vha tshi ya mavhengeleni.

d. mavhengeleni vha tshi ya ḽaiburari.

e. ḽaiburari vha tshi ya tshikoloni.

f. sibadela (vhuongeloni) vha tshi ya tshikoloni.

Teacher:
Sign:
Date:

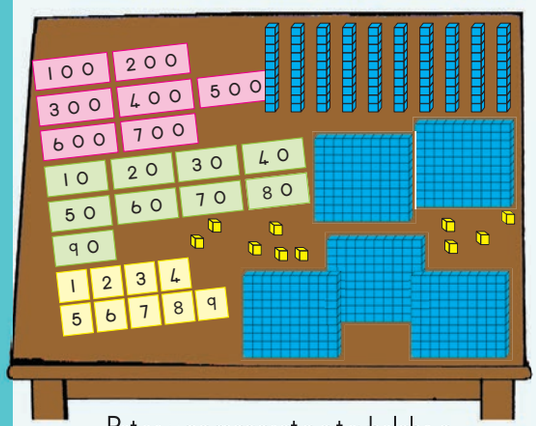
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69

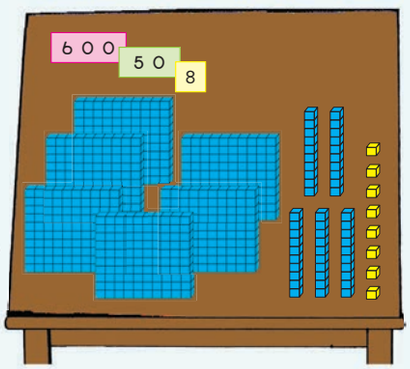
Deithi:

Nomboro 600 u swika kha 700 hafhu

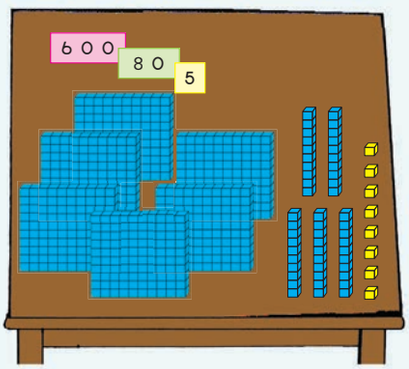


Peter u na magaraṱa a tevhelaho a vhuimo ha nomboro na zwibuḽoko zwa beisi ya fumi.

Mudededzi vha humbela Peter uri a sumbedze 658 nga magaraṱa na zwibuḽoko.

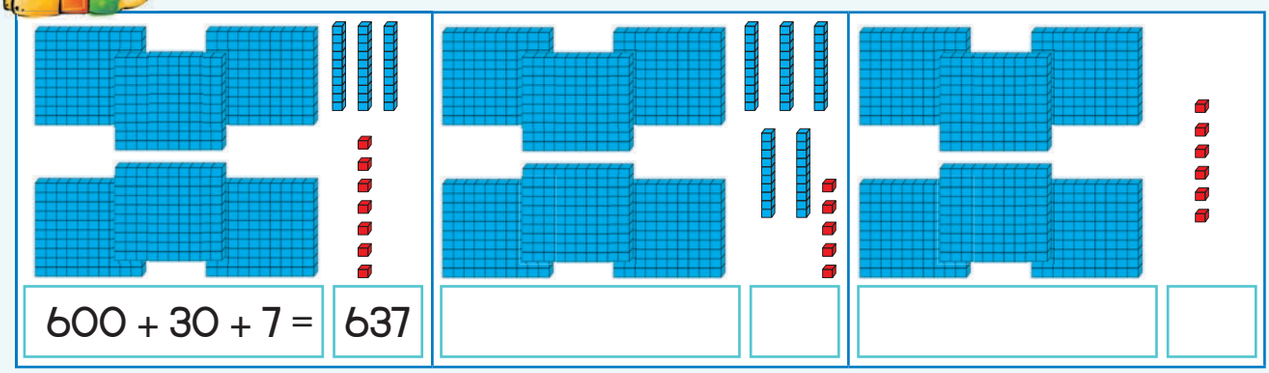


Aakar o sumbedza hezwi. O ita zwifhio zwo khakheaho?



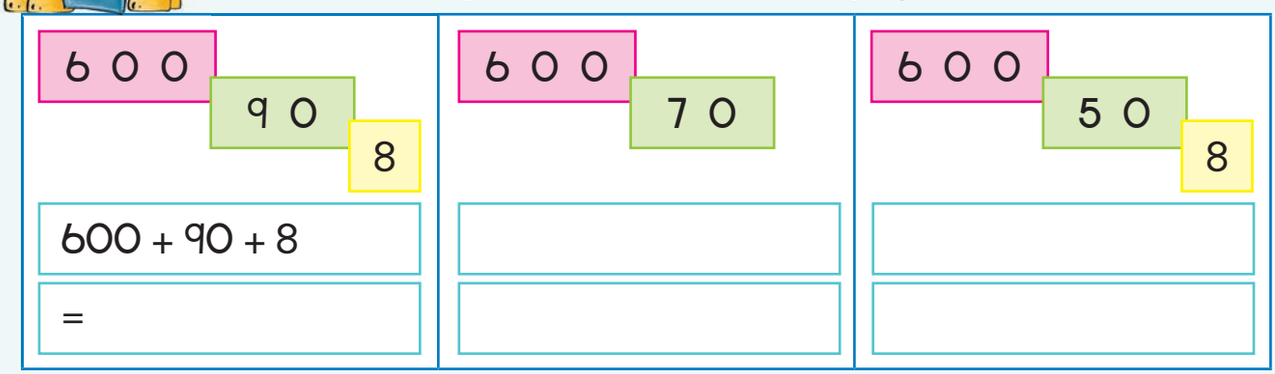


Ṅwalani fhungombalo ni tevhedze nga phindulo.





Ṅwalani fhungombalo ni tevhedze nga phindulo.



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3 Fhedzisani mutalombalo.

670	671	672								680

Ṅwalani nomboro dzoṱhe dzi re ṱhukhu kha 675. _____

Ṅwalani nomboro dzoṱhe dzi re khulwane kha 675. _____

4 Dzhenisani < kana > =

a. 670 _____ 607 b. 688 _____ 699

c. 600 + 50 + 5 _____ 655

5 Paḓukanyani nomboro yaṋu.

a. Fhaṱani nomboro iṅwe na iṅwe nga magaraṱa aṋu.

b. Ṅwalani veḽu ya didzhiti iṅwe na iṅwe. Zwino itani hezwi: Paḓukanyani nomboro yaṋu.

686	
690	
699	
673	
665	

Tsumbo: 632

	6 0 0
	3 0
	2
	6 3 2
632	600 + 30 + 2

6 Ṅwalani madzina a mbalo.

672	
693	
607	
697	
660	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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70

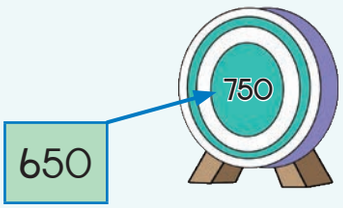
Deithi:

Nomboro 650 u swika kha 750



Vhalani ni ṅwale.

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



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

b. Ṅwalani nomboro dzi no khou ṱahela kha giridi i re afho nṱha.

c. Ṅwalani nomboro dza 10 dzi no tevhela 650.

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

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

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

e. Ṅwalani nomboro dzoṱhe dzi re kha phetheni ya dzi3 u bva kha 719 u swika kha 749.

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

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

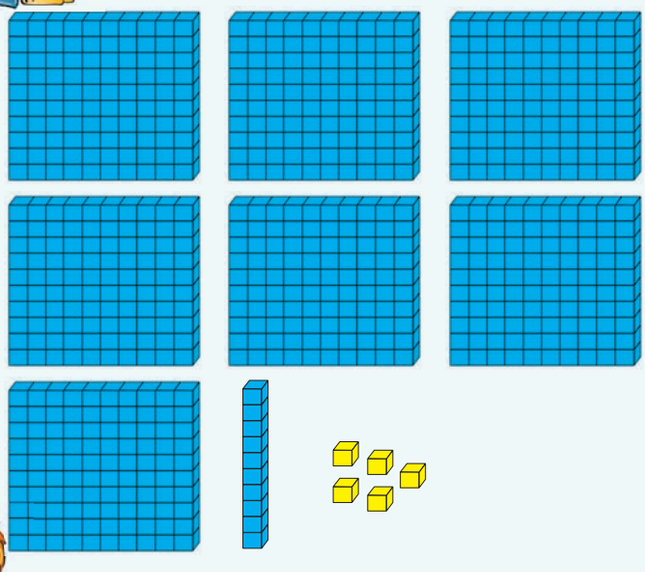
705; 710; 715; _____; _____; _____; _____; _____; _____; _____; _____

1 2 3 4 5 6 7 8 9 10

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2 Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?

3 Fhedzisani mitalombalo.

700			703				707		709	
							746	747	748	
					706	711	716			

4 Fhedzisani thebuḽu.

	Ṅwalani u bva kha ṱhukhusa u ya kha khulwanesa	Ṅwalani u bva kha khulwanesa u ya kha ṱhukhusa
729, 720, 728, 721, 725		
659, 705, 607, 701, 706		

5 Ṅwalani zwi tevhelaho nga maipfi.

706	

Teacher:
Sign:
Date:

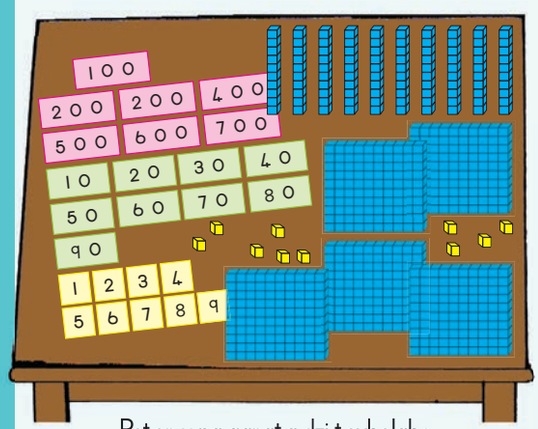
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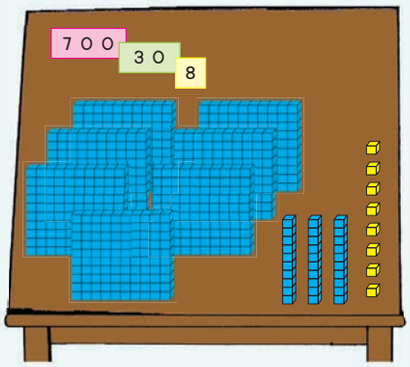
Deithi:

Nomboro 700 u swika kha 750

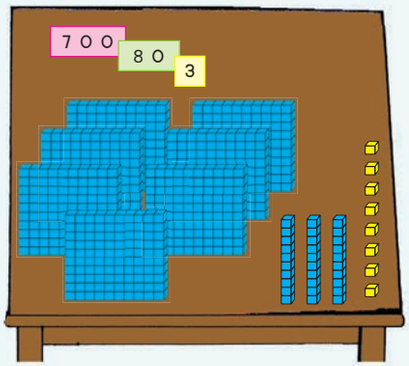


Peter u na garaṱa dzi tevhelaho dza vhuimo ha nomboro na zwibuḽoko zwa beisi ya fumi.

Mudededzi vha humbela Peter uri a sumbedze 738 nga magaraṱa na zwibuḽoko.

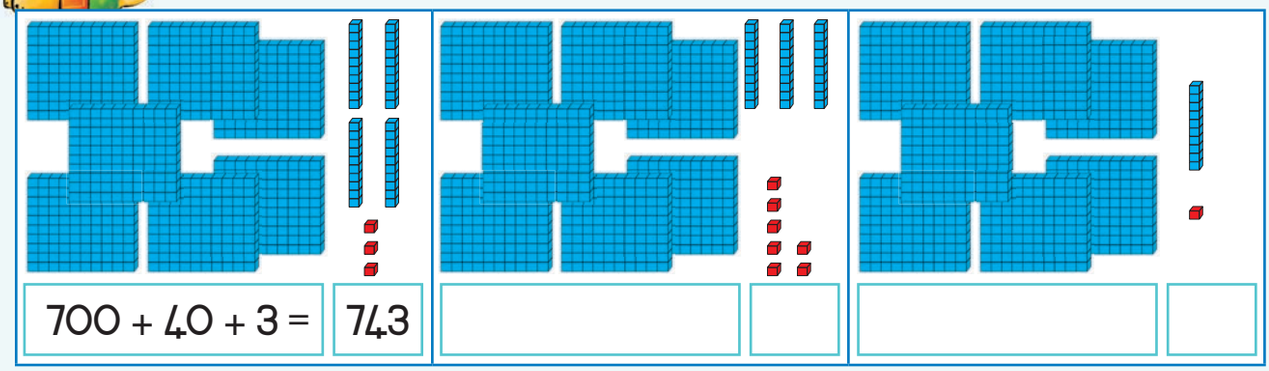


Ntakadzeni o sumbedza hezwi. O ita zwifhio zwo khakheaho?





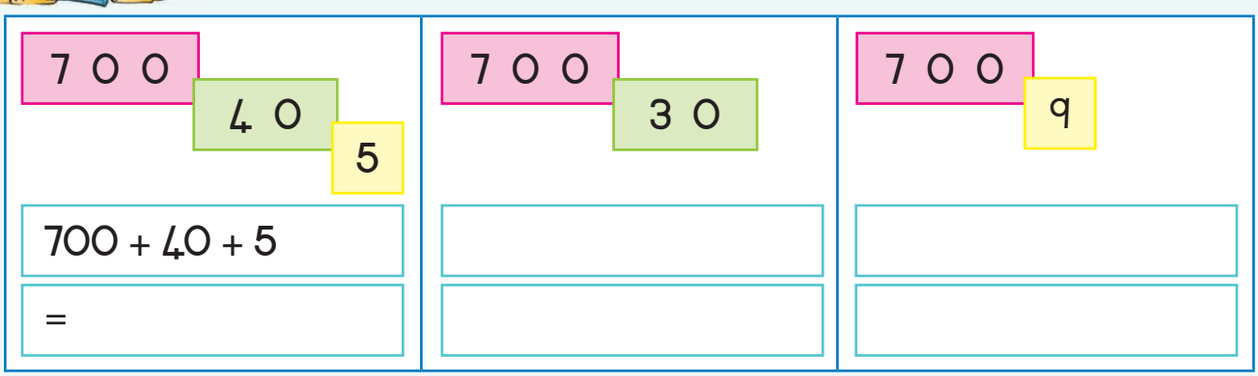
Ṅwalani fhungombalo ni tevhedze nga phindulo.

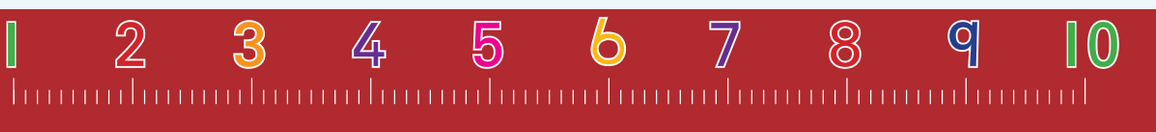


700 + 40 + 3 =	743				



Ṅwalani fhungombalo ni tevhedze nga phindulo.





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3 Fhedzisani mutalombalo.

699	700	701								709

Mpheni nomboro dzo̱the dzi re ṱhukhu kha 704. _____

Mpheni nomboro dzo̱the dzi re khulwane kha 704. _____

4 Dzhenisani < kana > =

a. 750 _____ 749 b. 732 _____ 723

c. 700 + 40 + 9 _____ 749

5 Pa̱dukanyani nomboro ya̱nu.

a. Fhaṱani nomboro iṅwe na iṅwe nga magaraṱa a̱nu.

b. Ṅwalani veḽu ya didzhiti iṅwe na iṅwe. Zwino itani hezwi: Pa̱dukanyani nomboro a̱nu.

750	
728	
703	
730	
749	

Tsumbo: 747

7 0 0

4 0

7

7 4 7

747 700 + 40 + 7

6 Ṅwalani madzina a mbalo.

714	
750	
742	
738	
704	

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

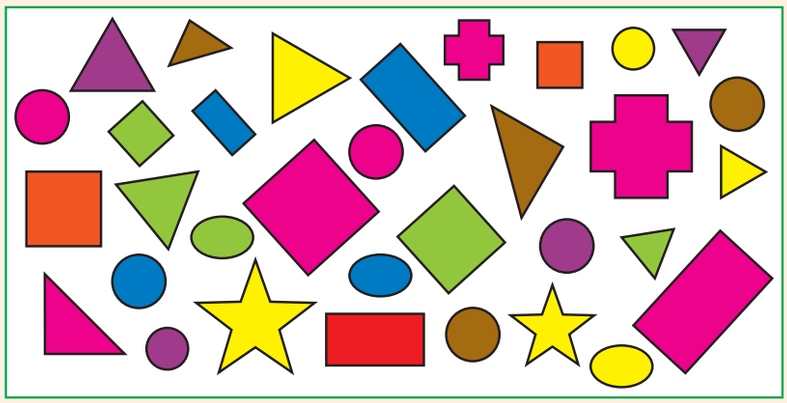
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Deithi:

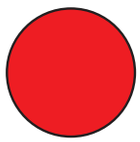
Zwivhumbeo wa 2-D

Bulani uri tshivhumbeo tshi na lurumbutswititi kana lwo kutaho naa.





Bulani uri tshivhumbeo tshi na vhurumbuswititi kana dza zwipulumbu naa.



Ni nga ola zwivhumbeo zwingana zwi re na vhurumbuswititi.



Wanani zwifanyiso.

Wanani zwivhumbeo zwi re na memetswititi ni dzi nambatedze hafha.

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

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4 Fhedzisani zwi tevhelaho:

	Olani tshivhumbeo tshi kha zwiimo zwo fhambananaho.
thiraiengele	
rekhitiengele	
tshikwea	

5 Fhedzisani thebulu:

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

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

Zwi nambatedzeni hafha:



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Deithi:

Muṱanganyo na muṱuso u swika kha 800

Ndi nga renga mini nga R500?

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



2 Ṱanganyani ni tshi ya phanḓa u bva kha 600.

Ṅwalani nomboro dzi no khou ṱahela.

Thomani	600	→ +20 →	620	→ +15 →		→ +15 →						
											+10 ↓	
Gumani		← +10 ←		← +25 ←		← +5 ←						

3 Vhalani ni tshi humela murahu u bva kha 800.

Ṅwalani "tshintshi" hoṱhe.

Thomani	800	→ − →	790	→ − →	786	→ − →	776					
							− ↓					
	715	← − ←	740	← − ←	760	← − ←	766					
	− ↓											
	705	−	690	−	660	Gumani						

1 2 3 4 5 6 7 8 9 10

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4 Tandululani zwi tevhelaho:

725 + 53 =	
664 + 87 =	
564 + 132 =	
75 + 717 =	

5 Tandululani zwi tevhelaho:

James o kuvhanganya mimavhuḽu ya 525.

Arali Ndavhe a mu fha miṅwe mimavhuḽu ya 205, James o vha a tshi ḓo vha e na ya tshivhalo tshi no lingana na tsha Ndavhe.

a. Vhuvhili havho vho vha vha tshi ḓo vha vhe na mimavhuḽu mingana?

b. Ndavhe o vha e na mimavhuḽu mingana na u thomani?

a.

b.

Teacher:
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Date:

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Deithi:

Muṱanganyo na muṱuso hafhu u swika kha 800

Themo ya 3

Miṱa ya nomboro.

Ri a kona u fhaṱa miṱa ya nomboro. Muṱa muṅwe na muṅwe u na nomboro mbili khulwane na nthihi ṱhukhu.

Tsumbo ndi ya 4, 8 na 12.

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

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



Wanani miṱa ya nomboro.

Ṅwalani mafhungombalo a 4 a tshigwada tshiṅwe na tshiṅwe tsha nomboro.

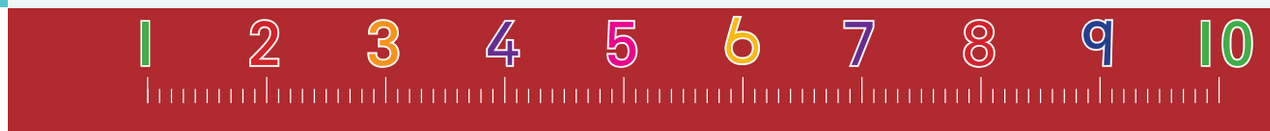
6 8 14				
17 17 34				
25 45 70				
65 335 400				
240 260 500				



Sedzani vhushaka.

Kha nyito iyi ri ḓo topola phatheni.

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



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Lwendo lulapfu.

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

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

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

Tandululani zwi tevhelaho kha bammbiri ḽiṅwe:

Shumisani iṅwe na iṅwe ya ngḓila dzi re afho ntha.

746 – 328	800 – 499

Teacher:
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Date:

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Deithi:

Muṱanganyo na muṱuso u swika kha 800 hafhu



Fhaṱani miṱa ya nomboro ya inwi muṇe.

Nyito ya u ḓidudedza.

Tsumbo: Vhumbani 17

5 12 17



$5 + 12 = 17$

$12 + 5 = 17$

$17 - 12 = 5$

$17 - 5 = 12$

$8 + 9 = 17$

$9 + 8 = 17$

$17 - 9 = 8$

$17 - 8 = 9$



8 9 17

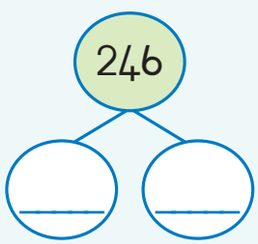
Ṱolani!
Vhambedzani!
Lulamisani!

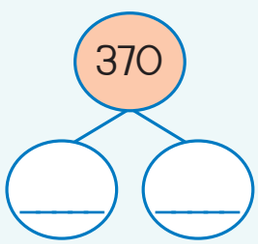
Ni tshi itela nomboro iṅwe na iṅwe i re afho fhasi, nangani dza 2 ni fhaṱe muṱa. Ṅwalani mafhungombalo maṇa (mavhili a + na mavhili a –) kha muṱa muṅwe na muṅwe wa nomboro.

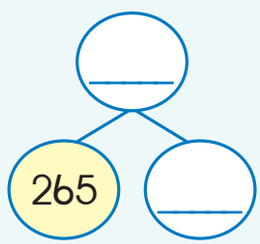
			+	+	–	–
16	7	9	$7 + 9 = 16$	$9 + 7 = 16$	$16 - 9 = 7$	$16 - 7 = 9$
20						
200						
75						
50						
500						
190						



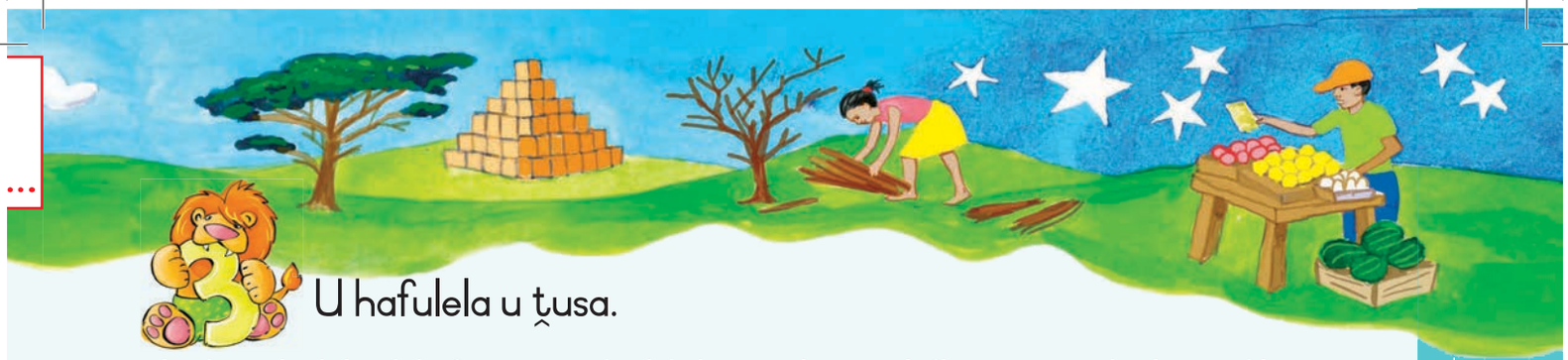
Ṱolani! Vhambedzani!
Lulamisani!







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3 U hafulela u ṱusa.

Arali ni tshi ḓivha dzihafu na nyingakavhili dzaṋu, tshiṅwe tshifhinga ni nga dzi shumisa kha u ṱanganya kana u ṱusa. **Tsumbo:**

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

Zwino edzisani hezwi:

340 – 176	145 + 148	900 – 452

4 Sedzesani ndila (ngona).

Muṅwe na muṅwe wa vhana vha 256 u wana mpho ya Khirisimusi. Hafu yavho vha fhiwa mipopi ngeno iṅwe hafu i tshi fhiwa zwimoḓoro. Ndi vhangana vhe vha fhiwa zwimoḓoro.

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 zwimoḓoro.	→ Hafu ya 250 = 125 → Hafu ya 6 ndi 3 125 + 3 = 128 → Hafu ya 256 ndi 128, Zwi amba uri vha 128 vha fhiwa zwimoḓoro.

5 Tandululani zwi tevhelaho kha bammbiri ḽiṅwe:

Shumisani iṅwe na iṅwe ya ndila dzi re afho ntha.

Muṅwe na muṅwe wa vhana vha 728 u fhiwa thoyi resituarenteni ya henefho. Hafu yavho vha fhiwa zwibuḽokozwifhaṱi. Ndi vhangana vhe vha fhiwa zwibuḽokozwifhaṱi.

Muṅwe na muṅwe wa vhana vha 642 u fhiwa mafini. Hafu yavho vha fhiwa mafini dzi re na matshakatshaka a tshokoḽeithi. Ndi vhangana vhe vha fhiwa mafini dzi re na matshakatshaka a tshokoḽeithi.

Teacher:
Sign:
Date:

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Deithi:

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



Ni nga ri vhudza mini nga nomboro dzi re zwibuḽokoni 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; _____; _____; _____



Ṱanganyani kana ni ṱuse fumi.

1. Ṱanganyani fumi kha nomboro ye na ṋewa. Ro dzula ro ni itela ya u thoma.

a. 767 + 10 = 777

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

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a. 767 – 10 = 757

2. Ṱusani fumi kha nomboro ye na ṉewa. Ro dzula ro ni itela ya u thoma.

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

3. Hu bvelela mini musi ni tshi ṱanganya kana u ṱusa fumi kha nomboro dzi re afho nṱha?

_____



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo ya nomboro.

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

b. Ṱharamudzani thevhekano ya nomboro dzi tevhelelaho:

704; 714; 724; _____ ; _____ ; _____

715; 725; 735; _____ ; _____ ; _____

799; 789; 779; _____ ; _____ ; _____

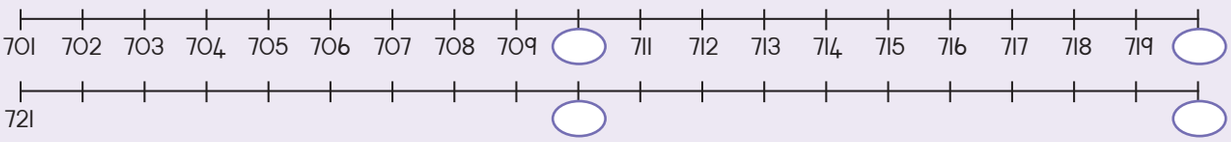
782; 772; 762; _____ ; _____ ; _____

737; 747; 757; _____ ; _____ ; _____

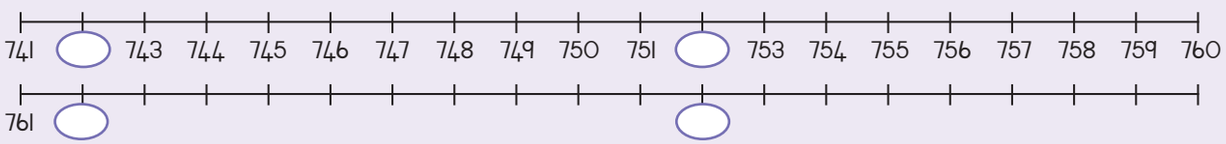


Dzhenisani (ṅwalani) nomboro yone tshitendeledzini tshiṅwe na tshiṅwe kha mitalombalo iyi.

a.



b.





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 ṱhukhu kha sumbe nga thihi.

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

_____

Teacher:
Sign:
Date:

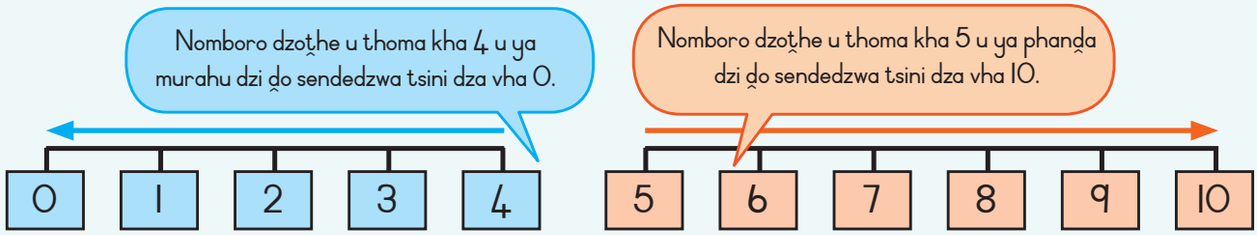
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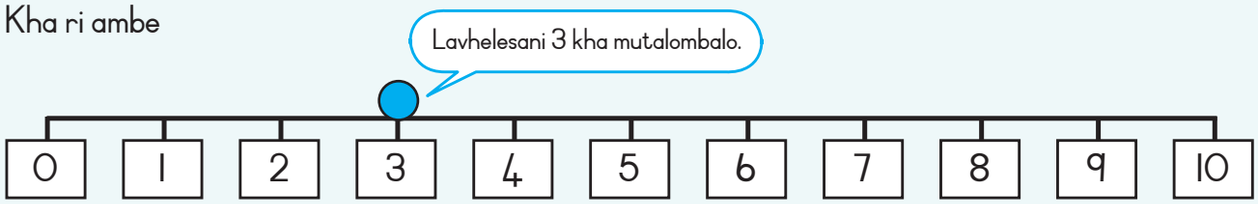
77

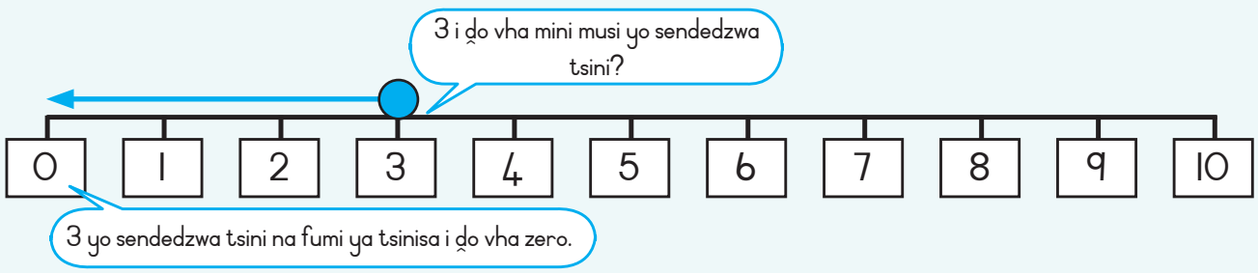
Deithi:

U sendedza tsini zwa vha mahumi

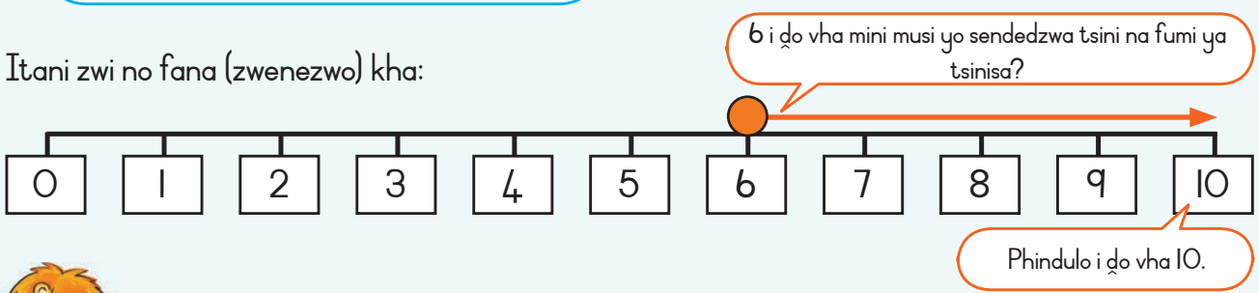


Kha ri ambe





Itani zwi no fana (zwenezwo) kha:





Sendedzani tsini na 10 ya tsinisa.

12 yo sendedzwa tsini ndi? _____ 19 yo sendedzwa tsini ndi? _____

10 11 12 13 14 15 16 17 18 19 20

53 yo sendedzwa tsini ndi? _____ 58 yo sendedzwa tsini ndi? _____

50 51 52 53 54 55 56 57 58 59 60

1 2 3 4 5 6 7 8 9 10

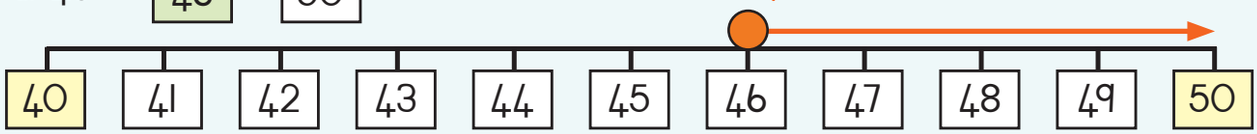
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Sendedzani kha 10 ya tsinisa ni tshi shumisa mitalombalo uri i ni tshuse.

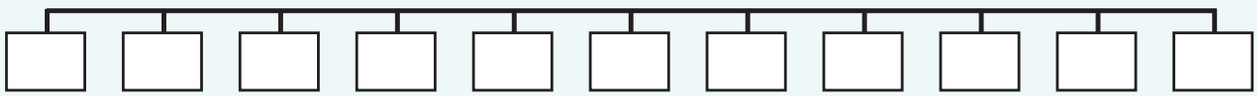
a. 46 [46] [50]

46 i vhukati ha fumi nngana mbili? [ ]



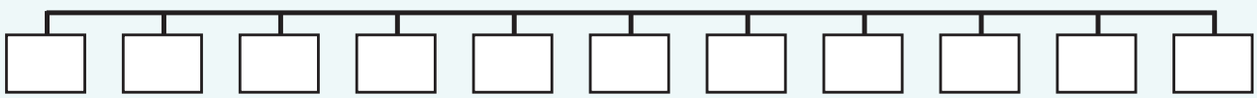
b. 63 [ ]

63 i vhukati ha fumi nngana mbili? [ ]



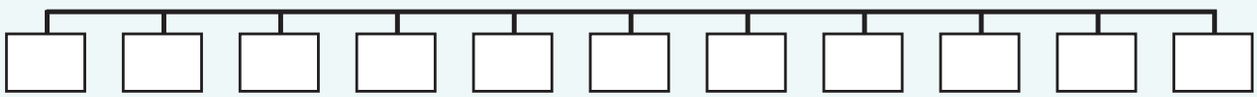
c. 37 [ ]

37 i vhukati ha fumi nngana mbili? [ ]



d. 99 [ ]

99 i vhukati ha fumi nngana mbili? [ ]







Tom u na R48,00.

Phakhethe ya magaraṱa e a a kuvhanganya i ḓura R5,00.

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

Teacher:
Sign:
Date:

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78

Deithi:

Muṱanganyo: ṱhanu u swika kha 75

Ndi zwifhio zwi re zwiṱanuzwiṱanu?

Minwe ya tshanḓa tshithihi.



Hu na minwe mingana kha:

- zwanḓa zwa 2?
- zwanḓa zwa 3?
- zwanḓa zwa 4?
- zwanḓa zwa 5?
- zwanḓa zwa 6?
- zwanḓa zwa 7?
- zwanḓa zwa 8?
- zwanḓa zwa 9?
- zwanḓa 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	

1 2 3 4 5 6 7 8 9 10

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Fhedzisani nyolo dza muelo.

nomboronzheniswa	mulayo	nomboromviswa
11	× 5	
12		
13		
14		
15		

nomboronzheniswa	mulayo	nomboromviswa
16	× 5	
17		
18		
19		
20		

nomboronzheniswa	mulayo	nomboromviswa
5	÷ 5	
10		
15		
25		
30		

nomboronzheniswa	mulayo	nomboromviswa
55	× 5	
60		
65		
70		
75		

Fhedzisani thebuḽu dzi re afho fhasi:

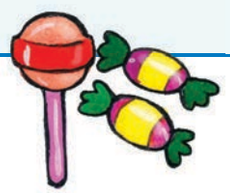
×	1	2	3	4	5	6	7	8	9	10
5										

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

Phindulo dzine dza tea u ṅwalwa kha zwibuḽoko zwa lutombo no dzi wanisa hani?

Tandululani zwi tevhelaho:

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



Teacher:
Sign:
Date:

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Deithi:

79

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



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

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

Vhalani ni tshi ya murahu nga ṱhanu u bva kha 800 u swika kha 705. Ndi nomboro dzifhio dzi no tevhela 730 arali ni tshi khou vhala ni tshi humela murahu?

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



Fhedzisani mafhungombalo.

725; 730; 735; _____; _____; _____	800; 795; 790; _____; _____; _____



Ṱanganyani kana ni ṱuse ṱhanu.

1. Ṱanganyani ṱhanu kha nomboro ye na ṋewa. Ro dzula ro ni itela ya u thoma.

a. 760 + 5 = 765

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

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a. 765 – 5 = 760

2. Ṱusani ṱhanu kha nomboro ye na ṅewa. Ro dzula ro ni itela ya u thoma.

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

3. Hu bvelela mini musi ni tshi ṱanganya kana u ṱusa ṱhanu kha nomboro dzi re afho ntha?

_____



Lavhelesani zwitendeledzi zwitswuku zwi re kha bodo a nomboro.

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

b. Ṱharamudzani thevhekano ya nomboro dzi tevhelelaho:

703; 708; 713; _____ ; _____ ; _____

753; 758; 763; _____ ; _____ ; _____

701; 706; 711; _____ ; _____ ; _____

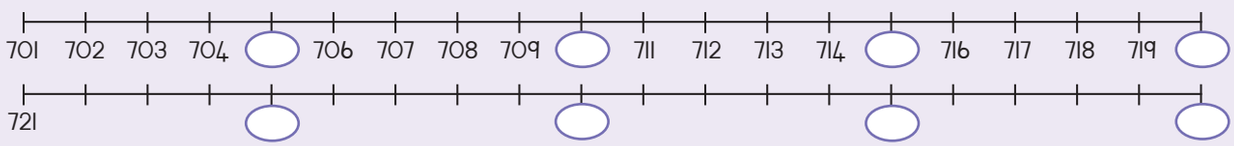
722; 727; 732; _____ ; _____ ; _____

714; 719; 724; _____ ; _____ ; _____

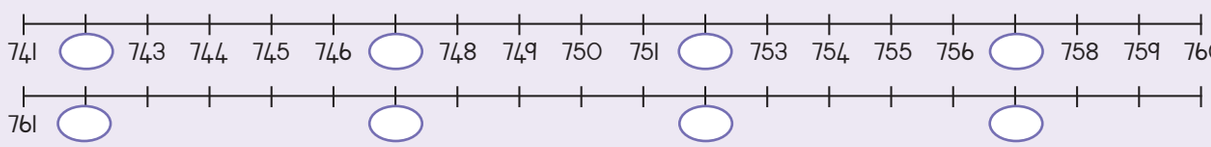


Dzhenisani (ṅwalani) nomboro yone tshitendeledzini tshiṅwe na tshiṅwe kha mitalombalo iyi.

a.



b.





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 ṱhukhu kha sumbe nga thihi.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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80 Tshifhinga tsha masiari na tshifhinga tsha vhusiku

Deithi:







Cape Town

Thebuḽu i re afho fhasi i sumbedza u tsha ha ḓuvha na u kovhela haḽo nga zwifhinga zwo fhambananaho ḓoroboni ya Cape Town. Vhalani zwifhinga zwi re kha thebuḽu iyi ni kone u ḓadza thebuḽu nga zwithu zwo teaho musi ni sa athu fhindula mbudziso dzi re afho fhasi.



Cape Town	U tsha ha ḓuvha	U kovhela ha ḓuvha	Vhulapfu ha ḓuvha	Vhulapfu ha vhusiku
Ṱhafamuhwe 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		

a. Ndi nga ṅwedzi ufhio hune masiari na vhusiku zwa vha zwo lapfa u fana? _____

b. Ndi ṅwedzi ufhio une wa vha na maḓuvha malapfusa? _____

c. Ndi ṅwedzi ufhio une wa vha na maḓuvha mapfufhisa? _____

d. Wanani phambano ya awara na miminete vhukati ha ḓuvha ḽilapfusa na ḓuvha ḽipfufhisa. _____

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

_____

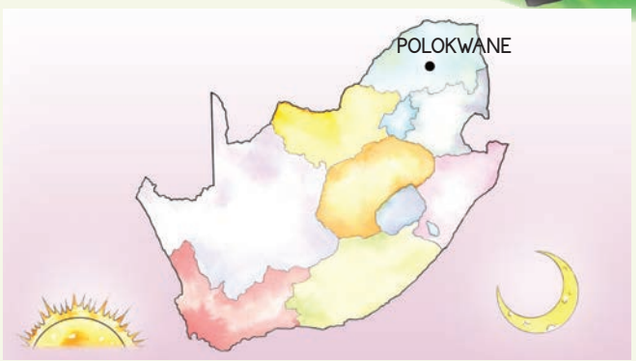


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Polokwane

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



Polokwane	U tsha ha ḓuvha	U kovhela ha ḓuvha	Vhulapfu ha ḓuvha	Vhulapfu ha vhusiku
Ṱhafamuhwe 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		

a. Ndi nga ṅwedzi ufhio hune masiari na vhusiku zwa vha zwo lapfa u fana? _____

b. Ndi miṅwedzi ifhio kha yeneyi hune vhulapfu ha ḓuvha ha fana hoṱhe Cape Town na Polokwane? _____

c. Ndi nga miṅwedzi ifhio hune zwa fhambana? _____

d. Wanani phambano ya awara na miminete vhukati ha ḓuvha ḽilapfusa na ḓuvha ḽipfufhisa.

_____

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

_____



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

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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81

Deithi:

Muandiso: mbili u swika kha 75

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



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



Fhedzisani thebulu.

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	

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3 Fhedzisani nyolo dza muelo.

nomboronzheniswa	mulayo	nomboromviswa
11	× 2	
12		
15		
17		
20		

nomboronzheniswa	mulayo	nomboromviswa
22	× 2	
26		
31		
30		
35		

nomboronzheniswa	mulayo	nomboromviswa
20	÷ 2	
26		
32		
38		
20		

nomboronzheniswa	mulayo	nomboromviswa
50	× 2	
60		
68		
72		
74		

4 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																	

5 Thasululani zwi tevhelaho:



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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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Deithi:

82

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



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

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

Vhalani ni tshi humela murahu nga ṱhanu u bva kha 800 u swika kha 710.
Ndi mini tshi no rangela 750 musi ni tshi vhala ni tshi ya murahu?

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



Fhedzisani mitevhe ya nomboro.

720; 722; 724; _____ ; _____ ; _____	800; 798; 796; _____ ; _____ ; _____



Ṱanganyani kana ni ṱuse mbili.

1. Ṱanganyani mbili kha nomboro ye na ṋewa.
   Ro dzula ro ni itela ya u thoma.

a. 764 + 2 = 766

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

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2. Ṱusani mbili kha nomboro ye na ṋewa. Ro dzula ro ni itela ya u thoma.

a. 764 – 2 = 762

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

3. Hu bvelela mini musi ni tshi ṱanganya kana u ṱusa mbili kha nomboro dzi re afho nṱha?

_____



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledzi izwi? _____

b. Ṱharamudzani mitevhe i tevhelaho ya nomboro:

701; 703; 705; _____ ; _____ ; _____

725; 727; 729; _____ ; _____ ; _____

799; 797; 795; _____ ; _____ ; _____

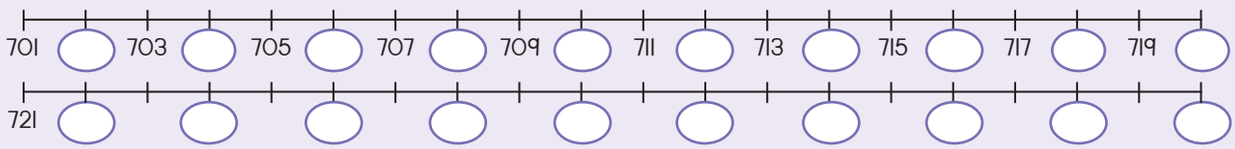
783; 785; 787; _____ ; _____ ; _____

779; 781; 783; _____ ; _____ ; _____

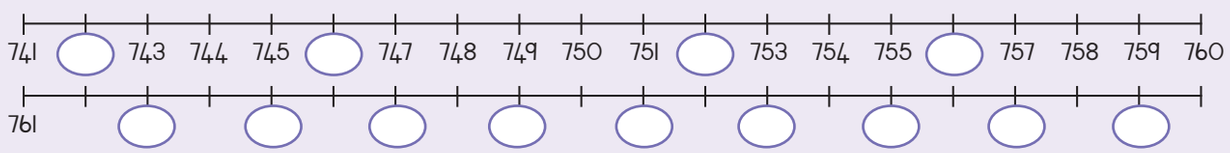


Dzhenisani nomboro yone kha tshitendeledzi tshiṅwe na tshiṅwe kha mitalombalo iyi.

a.



b.





Ndi na nomboro ya didzhiti dza 3.



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

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

_____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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83

Deithi:

Muandiso:
dzi2 na dzi5 u swika kha 75



Ni nga kona u fhindula zwi tevhelaho nga luvhilo lungafhani?

1 × 2 = _____	2 × 5 = _____	10 × 2 = _____	7 × 2 = _____
8 × 2 = _____	5 × 2 = _____	8 × 5 = _____	4 × 5 = _____
5 × 5 = _____	6 × 5 = _____	3 × 2 = _____	7 × 5 = _____
6 × 2 = _____	9 × 5 = _____	3 × 5 = _____	4 × 2 = _____
10 × 5 = _____	5 × 2 = _____	1 × 5 = _____	9 × 5 = _____



Vhonani uri khonani yanga o ita mini.

Ambani ngazwo.

4 × 2 = 8

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 x 4 = 8 4 x 2 = 8 8 ÷ 4 = 2 8 ÷ 2 = 4

Itani zwenezwo na hafha 4 × 5 = 20.

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

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3 Andisani zwi tevhelaho:

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

4 Thasululani zwi tevhelaho:



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

Teacher:
Sign:
Date:

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84

Deithi:

Muandiso: tharu i swika kha 75

Ndi zwifhio zwi no tshimbila nga zwiraruzwiraru?
Mavhili a thiraisikili



Hu na mavhili mangana kha
- thiraisikili ya 1?
- thiraisikili dza 2?
- thiraisikili dza 3?
- thiraisikili dza 4?
- thiraisikili dza 5?
- thiraisikili dza 6?
- thiraisikili dza 7?
- thiraisikili dza 8?
- thiraisikili dza 9?
- thiraisikili dza 10?

Livhangani ṱhanganyelo 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	

1 2 3 4 5 6 7 8 9 10

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3 Fhedzisani nyolo dza muelo.

nomboronzheniswa	mulayo	nomboromviswa
10	× 3	
12		
14		
16		
22		

nomboronzheniswa	mulayo	nomboromviswa
11	× 3	
13		
15		
23		
25		

nomboronzheniswa	mulayo	nomboromviswa
18	÷ 3	
30		
36		
42		
75		

nomboronzheniswa	mulayo	nomboromviswa
12	÷ 3	
63		
66		
69		
75		

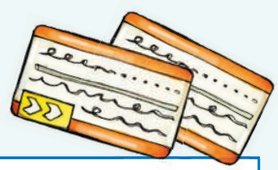
4 Fhedzisani thebuḽu dzi re afho fhasi:

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

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

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

5 Thasululani zwi tevhelaho:



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

Teacher:
Sign:
Date:

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85

Deithi:

Muandiso:

dzi2, dzi3 na dzi4 u swika kha 75



Ni nga kona u fhindula zwi tevhelaho nga luvhilo lungafhani?

1 × 2 = _____	5 × 4 = _____	5 × 2 = _____	2 × 2 = _____
6 × 3 = _____	4 × 2 = _____	2 × 4 = _____	7 × 3 = _____
8 × 4 = _____	2 × 3 = _____	7 × 2 = _____	9 × 4 = _____
3 × 2 = _____	4 × 4 = _____	10 × 3 = _____	1 × 3 = _____
3 × 3 = _____	9 × 2 = _____	6 × 4 = _____	10 × 3 = _____



Vhonani uri khonani yanga o ita mini.

Ambani ngazwo.

5 × 2 = 10

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 x _ = _ 4 x _ = _ _ ÷ _ = _ _ ÷ _ = _

Itani zwenezwo na hafha 8 × 3 = 24.

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

6 × 4 = 24

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

1 2 3 4 5 6 7 8 9 10

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Kovhani ni linge phindulo yaṇu.

63 ÷ 3 = (60 + 3) ÷ 3 = (60 ÷ 3) + (3 ÷ 3) = 20 + 1 = 21	21 × 3 = (20 + 1) × 3 = (20 × 3) + (1 × 3) = 60 + 3 = 63
a. 48 ÷ 5	
b. 64 ÷ 5	



Thasululani zwi tevhelaho:



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

Teacher:
Sign:
Date:

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86

Deithi:

Phetheni dza nomboro: tharu u swika kha 800



Ni nga amba mini nga zwibuḽoko 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 ṱhanu 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; _____; _____; _____



Ṱanganyani kana ni ṱuse raru.

1. Ṱanganyani raru kha nomboro ye na ṋewa.
   Ro dzula ro ni itela ya u thoma.

a. 766 + 3 = 769

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

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2. Ṱusani raru kha nomboro ye ya na ṅewa. Ro dzula ro ni itela ya u thoma.

a. 766 – 3 = 763

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

3. Hu bvelela mini musi ni tshi ṱanganya kana u ṱusa raru kha nomboro dzi re afho nṱha?

_____



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona zwifhio kha zwitendedzi izwi? _____

b. Ṱharamudzani mitevhe i tevhelaho ya nomboro:

704; 707; 710; _____ ; _____ ; _____

773; 776; 779; _____ ; _____ ; _____

779; 776; 773; _____ ; _____ ; _____

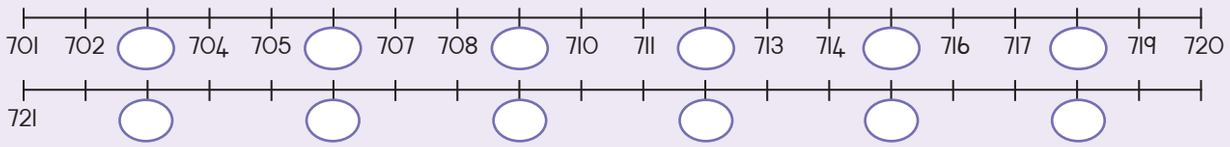
782; 785; 788; _____ ; _____ ; _____

779; 782; 785; _____ ; _____ ; _____

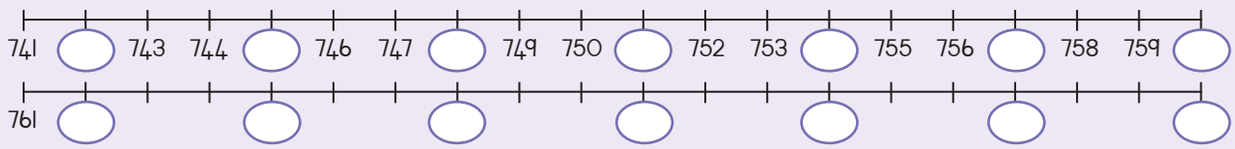


Dzhenisani nomboro yone kha tshitendeledzi tshiṅwe na tshiṅwe kha mitalombalo iyi.

a.



b.



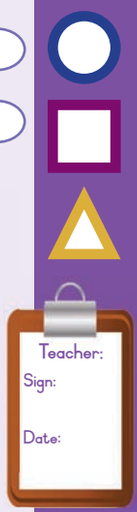


Ndi na nomboro ya didzhiti dza 3:



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

Zwino vhalani ni tshi ya phanḓa nga tharutharu u thoma kha heyi nomboro.
Ni wana nomboro ifhio? _____



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87

Deithi:

Muandiso: dziiṋa u swika kha 75

Ndi zwifhio zwi no tshimbila nga zwiṋazwiṋa?
Mavhili a moḍoro



Hu na mavhili mangana kha
- Goloi ya 1?
- Goloi dza 2?
- Goloi dza 3?
- Goloi dza 4?
- Goloi dza 5?
- Goloi dza 6?
- Goloi dza 7?
- Goloi dza 8?
- Goloi dza 9?
- Goloi dza 10?

Livhangani ṱhanganyelo na mbudziso i re kha tsha monde:

$9 \times 4 = 36$
$7 \times 4 = 28$
$2 \times 4 = 8$
$4 \times 4 = 16$
$3 \times 4 = 12$
$5 \times 4 = 20$
$1 \times 4 = 4$
$10 \times 4 = 40$
$6 \times 4 = 24$
$8 \times 4 = 32$



Fhedzisani thebuḽu:

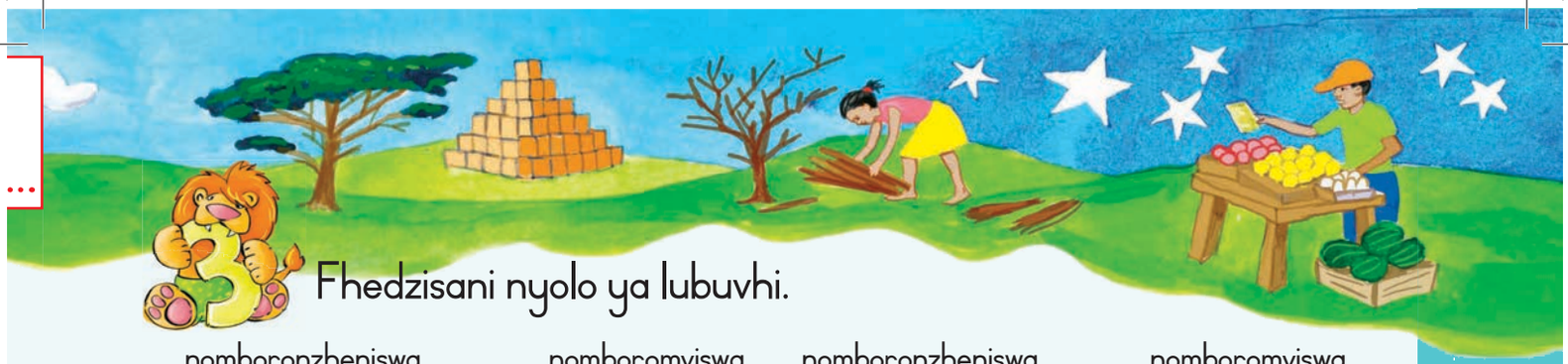
U vhea nga zwigwada	Andisani	U kovha	Kovhani
Zwigwada zwa 12 zwa 4	$12 \times 4 = 48$	Kovhani zwa 48 kha vha 4	$48 \div 4 = 12$
Zwigwada zwa 16 zwa 4		Kovhani zwa 64 kha vha 4	
Zwigwada zwa 18 zwa 4		Kovhani zwa 72 kha vha 4	
Zwigwada zwa 15 zwa 4		Kovhani zwa 60 kha vha 4	



Fhedzisani thebuḽu:

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

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Fhedzisani nyolo ya lubuvhi.

nomboronzheniswa	mulayo	nomboromviswa
10	× 4	
11		
13		
14		
15		

nomboronzheniswa	mulayo	nomboromviswa
9	× 4	
12		
16		
17		
18		

nomboronzheniswa	mulayo	nomboromviswa
16	÷ 4	
32		
44		
60		
72		

nomboronzheniswa	mulayo	nomboromviswa
40	÷ 4	
52		
56		
64		
68		

Fhedzisani thebuḽu dzi re afho fhasi:

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

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

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

Thasululani zwi tevhelaho:



Ndi na R75.

Ndi zwipiḓa zwingana zwiṱuku zwa mpho zwa R4 zwine nda nga renga?

Teacher:

Sign:

Date:

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88

Deithi:

Phetheni dza nomboro u swika kha 800



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

Vhalani nga tharu u bva kha 704 u swika kha 800. Hu tevhela mini nga murahu ha 736 musi ni tshi vhala nga iṋaiṋa?

Vhalani ni tshi humela murahu nga ṱhanu u bva kha 800 u swika kha 704.
Ndi mini tshi no rangela 776 musi ni tshi vhala ni tshi ya murahu?

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



Fhedzisani mutevhe wa nomboro.

704; 708; 712; _____; _____; _____	724; 728; 732; _____; _____; _____



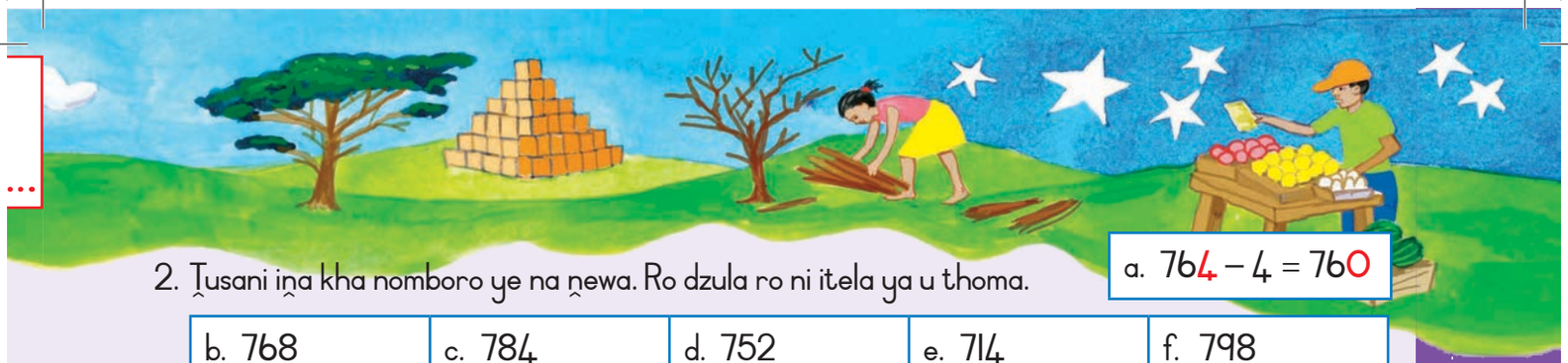
Ṱanganyani kana ni ṱuse iṋa.

1. Ṱanganyani iṋa kha nomboro ye ya ṋewa.
   Ro dzula ro ni itela ya u thoma.

a. 764 + 4 = 768

b. 764 _____	c. 788 _____	d. 754	e. 718 _____	f. 794 _____

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2. Ṱusani iṋa kha nomboro ye na ṋewa. Ro dzula ro ni itela ya u thoma.

a. 764 – 4 = 760

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

3. Hu bvelela mini musi ni tshi ṱanganya kana u ṱusa iṋa kha nomboro dzi re afho nṱha?

_____



Lavhelesani zwitendeledzi zwa muvhala wa lutombo kha bodo ya nomboro.

a. Ni vhona mini kha zwitendeledi izwi? _____

b. Ṱharamudzani mitevhe i tevhelaho ya nomboro:

703; 707; 711; _____ ; _____ ; _____

773; 777; 781; _____ ; _____ ; _____

711; 715; 719; _____ ; _____ ; _____

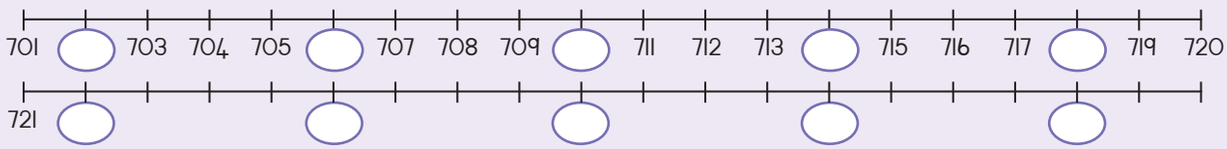
783; 779; 775; _____ ; _____ ; _____

799; 795; 791; _____ ; _____ ; _____

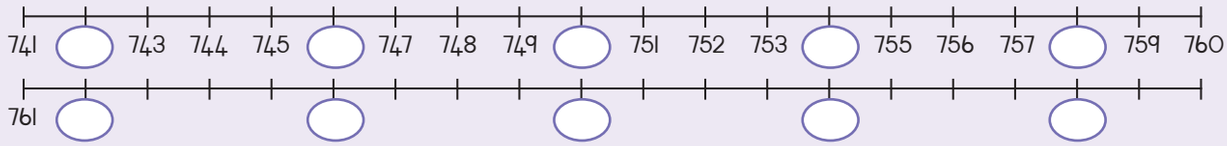


Dzhenisani nomboro yone kha tshitendeledzi tshiṅwe na tshiṅwe kha mitalombalo iyi.

a.



b.





Ndi na nomboro ya didzhiti dza 3.

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



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

_____

Teacher:
Sign:
Date:

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89

Deithi: .....

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



Ni nga kona u fhindula zwi tevhelaho nga luvhilo lungafhani?

1 × 2 = _____	5 × 3 = _____	4 × 2 = _____	10 × 2 = _____
4 × 3 = _____	3 × 2 = _____	2 × 2 = _____	3 × 3 = _____
6 × 4 = _____	4 × 3 = _____	5 × 3 = _____	9 × 4 = _____
6 × 5 = _____	8 × 3 = _____	9 × 4 = _____	8 × 5 = _____
7 × 3 = _____	8 × 5 = _____	2 × 5 = _____	7 × 5 = _____



Khalarani zwibuloko zwine khazwo thanganyelo ya ni fha tshitahe.

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



Ni zwi divha hani uri nomboro i nga kovhea nga:

- 3? Arali na nga tanganya 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? _____

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4 Kovhani ni linge phindulo yaṋu.

65 ÷ 3 = (60 + 5) ÷ 3 = (60 ÷ 3) + (5 ÷ 3) = 20 + I ha sala 2 = 2I ha sala 2	2I × 3 + 2 = (20 + I) × 3 + 2 = (20 × 3) + (I × 3) + 2 = 60 + 3 + 2 = 65
a. 49 ÷ 5	
b. 65 ÷ 5	

5 Thasululani zwi tevhelaho:



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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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90

Deithi:

Mbonalo dza zwithu zwa 3-D



Lavhelesani zwifanyiso izwi.

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

Bola	Mabogisi	Siḽinda	Phiramidi	Khounu
				



Lavhelesani zwifanyiso ni fhedzise mafhungo na mbudziso.



a. Bola _____.



b. Ndi nga mini bola i sa swendi?

_____



c. Siḽinda _____.



d. Siḽinda na yone i nga swenda?

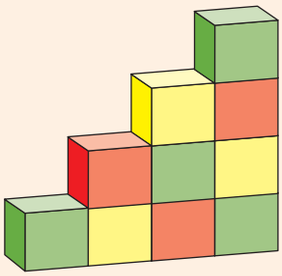
_____

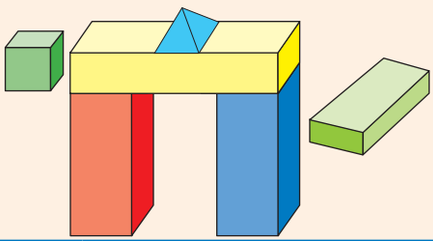
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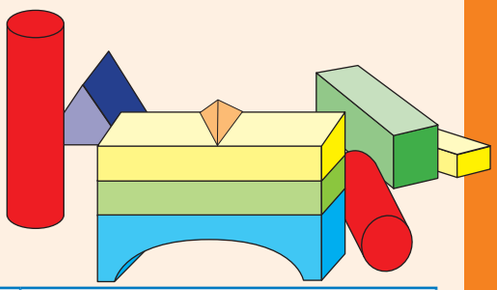


Bulani madzina a zwithu zwe zwa shumiswa tshifanyisoni tshiṅwe na tshiṅwe.

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







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







Olani zwi tevhelaho:

Bogisi ḽo dzula (baḽantsa) kha siḽinda.	Bola yo dzula (baḽantsa) kha siḽinda.	Siḽinda yo dzula (baḽantsa) kha bogisi.

Teacher:
Sign:
Date:

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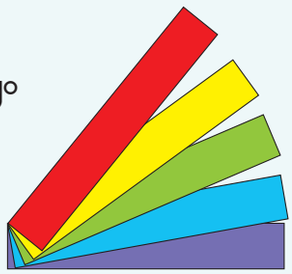
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Deithi:

Khithi ya zwibammbiri zwa furakhisheni

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





Itani khithi

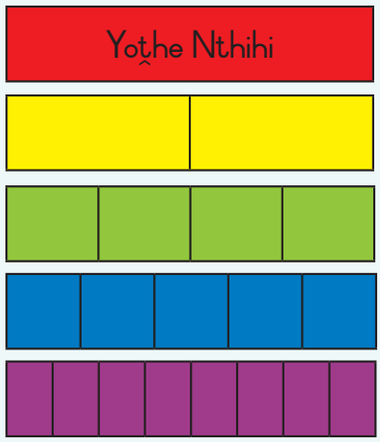
Tshigeriwa 5

Kha lubammbiri luthihi ṅwalani maipfi: Yoṱhe Nthihi

Dzhiani luṅwe lubammbiri ni lu pete nga vhukati. Ni kone u lu pululula. Hu na zwipiḓa zwingana zwi no lingana?

Ṅwalani $\frac{1}{2}$ kha hafu iṅwe na iṅwe ni gere ni tshi tevhedzela he na peta.

Dzhiani lubammbiri lwa vhuraru ni lu pete nga vhukati, dovhani ni pete hafhu nga vhukati. Lu pulululeni. Hu na zwipiḓa zwingana zwi no lingana? Ṅwalani $\frac{1}{4}$ kha tshaiṋa tshiṅwe na tshiṅwe ni gere ni tshi tevheledzela he na peta.



Zwino edzisani u ita vhubammbiri vhuvhili hafhu, luthihi lu tshi sumbedza zwararu luṅwe lu tshi sumbedza zwamalo



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



Ndi hafu nngana dzi no lingana na yoṱhe nthi? ☐



Ndi zwaiṋa zwingana zwi no lingana na hafu nthihi? ☐



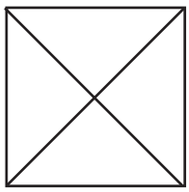
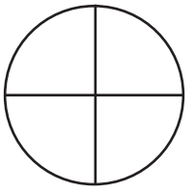
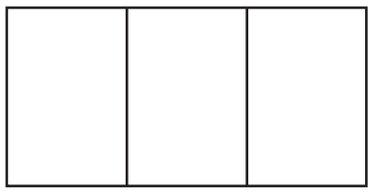
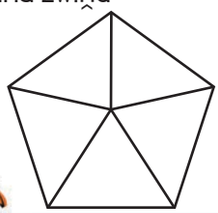
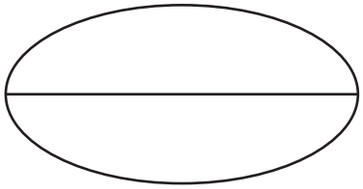
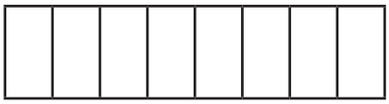
Furakhisheni kha mutalombalo.

Lubammbiri ulu lu sumbedza yoṱhe nthihi. Yoṱhe Nthihi	Tshitendeledzi itshi tshi sumbedza yoṱhe nthihi. Yoṱhe Nthihi
Khethekanyani lubammbiri lu bve zwararu. Khaḽarani tshararu.	Khethekanyani tshitendeledzi tshi bve zwararu. Khaḽarani tshararu.

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4 Zwino khaḽarani zwi tevhelaho:

Hafu nthihi 	Kota tharu 	Zwararu zwivhili 
Zwaṱhanu zwiṋa 	Hafu nthihi 	Kota tharu 

5 Olani zwi tevhelaho:

Kota tharu ni tshi shumisa zwikwea.	Hafu nthihi ni tshi shumisa tshitendeledzi.	Zwararu zwivhili ni tshi shumisa thiraiengele.
Zwaṱhanu zwiṋa ni tshi shumisa tshitendeledzi.	Zwamalo zwiṋa ni tshi shumisa zwikwea.	Zwararu zwivhili ni tshi shumisa rekhithiengele.

6 Lugisani khithi yaṋu.



- Gerani tshiṅwe na tshiṅwe tsha zwitendeledzi zwa 6 kha Tshigeriwa 6.
- Gerani zwiṱanu zwa zwitendeledzi kha mitaladzi zwi bve zwipiḓapiḓa
- Ḽebuḽani tshipiḓa tshiṅwe na tshiṅwe:
  - Kha luṅwe lurumbu ṅwalani furakhisheni ya awara yoṱhe.
  - Kha luṅwe lurumbu ṅwalani tshivhalo tsha minete i re kha furakhisheni yeneyo.



Teacher:
Sign:
Date:

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Deithi:

Furakhisheni dziṅwe haf hu



Ṅwalani Ee kana Hai.



- Hafu ndi hafu ya Yo̱the Nthihi _____
- Hafu ya hafu ndi kota nthihi _____
- Kota ndi hafu ya hafu _____
- Hafu nthihi na kota mbili zwi ita yo̱the _____
- Hafu na kota zwi ita kota tharu _____



Kovhani phai.



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

a.





Olani mukovhe wa Sipho.

b.





Olani mikovhe ya Sipho na Gugu.

c.





Olani mikovhe ya Sipho, Gugu na Mulalo.

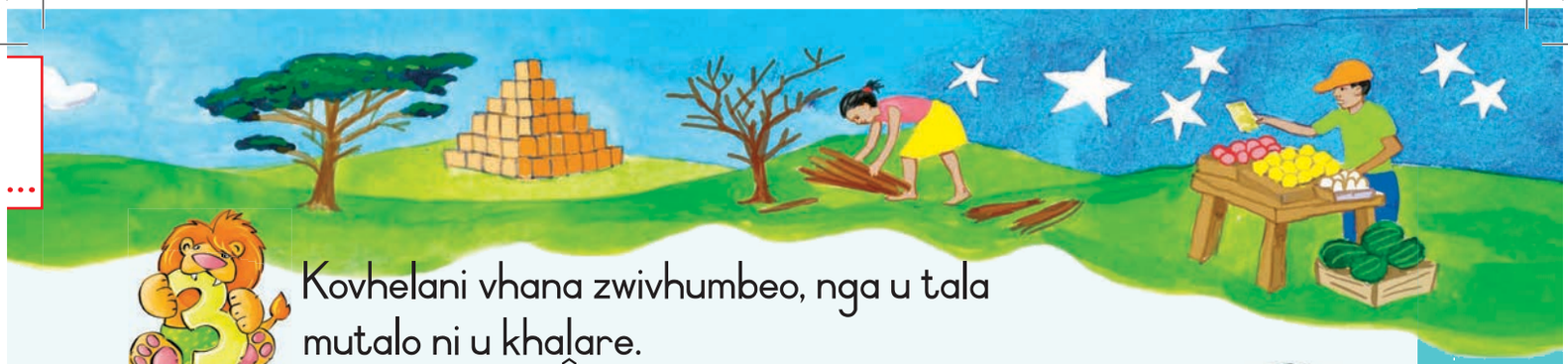
d.





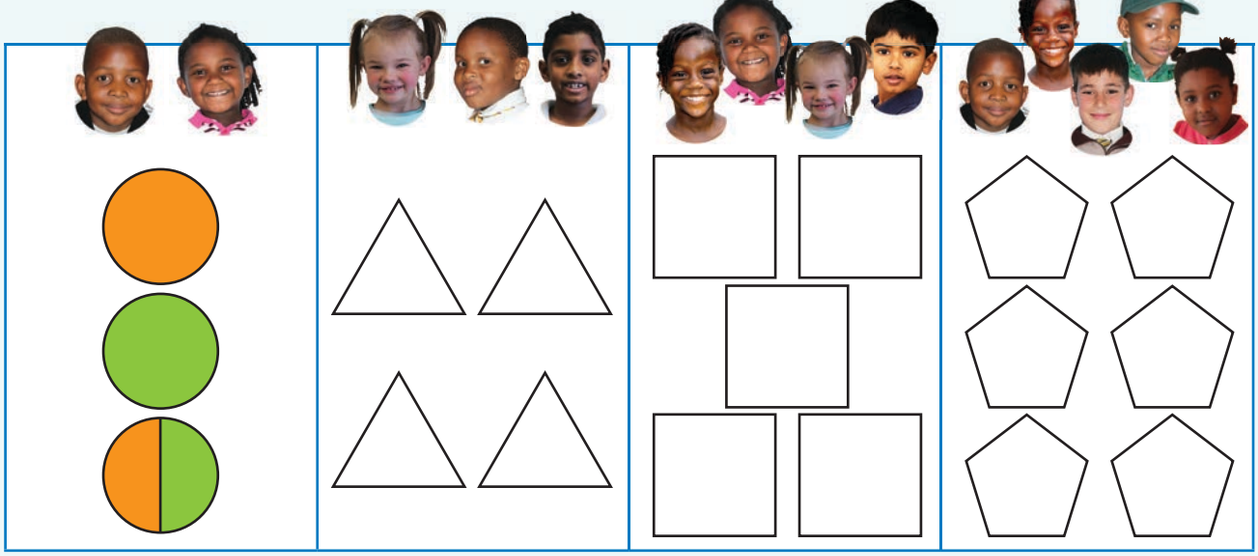
Olani miṅwe mikovhe yo̱the ya phai.

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





Khonani nṋa dzi kovhekana maḽegere a ḽikhwarazi a 5 a zwitanda nga u lingana.

Muṅwe na muṅwe u ḓo wana mangana?

Mbudziso ndi ifhio?

Nomboro ndi dzifhio?

Olani tshifanyiso.

Khonani dza rathi dzi kovhekana maḽegere a ḽikhwarazi a 9 a zwitanda nga u lingana.

Muṅwe na muṅwe u ḓo wana mangana?

Mbudziso ndi ifhio?

Nomboro ndi dzifhio?

Olani tshifanyiso.



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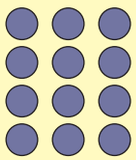
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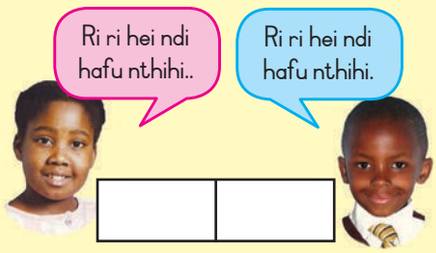
Deithi:

U kovhekanya zwi tshi livha kha furakhisheni

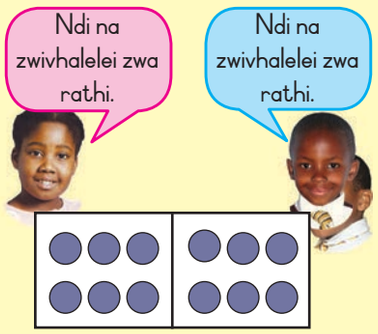
Zwivhaleli zwa 12 khezwi.



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



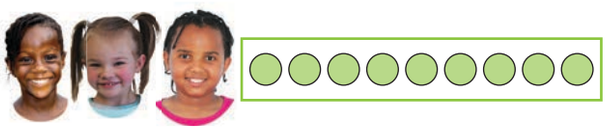
Ri kovhekana zwivhaleli zwa fumimbili vhuvhili hashu.





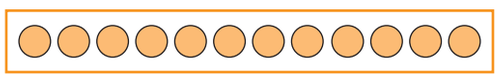
Itani nyolo ya zwi tevhelaho ni fhindule mbudziso.

Bola dza ṱahe dzi kovhelwa khonani tharu.



- Musidzana muṅwe na muṅwe u ḓo wana bola nngana? ☐
- Musidzana muṅwe na muṅwe u ḓo wana furakhisheni ifhio? ☐

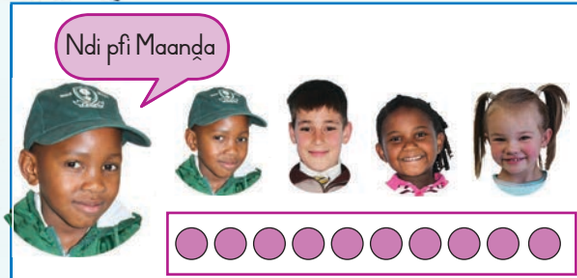
Bola dza ṱahe dzi kovhelwa khonani nna. Vhararu vhavho ndi vhatukana.



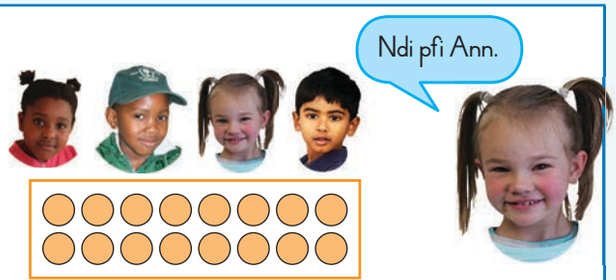
- Musidzana muṅwe na muṅwe u ḓo wana bola nngana? ☐
- Mutukana muṅwe na muṅwe u ḓo wana furakhisheni ifhio? ☐



Maanḓa u ḓo wana furakhisheni ifhio? Ann u ḓo wana furakhisheni ifhio?



- Maanḓa na Ann vha ḓo wana bola nngana?



- Maanḓa na Ann vha ḓo wana bola nngana?

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U kovhekana maḽegere.

Khonani dzi kovhekana maḽegere. Muṅwe na muṅwe 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 ṱoḓa mithara (m) dza 2 $\frac{1}{2}$ dza labi.

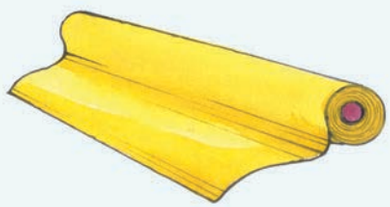
Labi ḽi ḓura R6 mithara muthihi.



a. Ndi zwirivha zwingana zwine vha nga runga nga?

5 m _____ 10 m _____

20 m _____ 25 m _____



b. Ndi labi ḽingafhani ḽine vha ḓo ṱoḓa kha u runga?

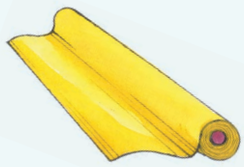
zwirivha zwa 2 _____ zwirivha zwa 3 _____ zwirivha zwa 4 _____

c. Labi ḽa u runga zwi tevhelaho ḽi ḓura vhugai?

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

d. Vha nga runga zwirivha zwingana nga:

R450 _____ R825 _____ R180 _____.



Teacher:
Sign:
Date:

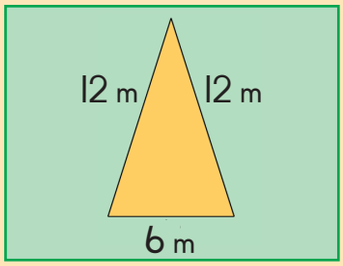
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Deithi:

94 Muelo ri tshi mona

Ipfi ḽa mudzinge (pherimitha) ḽi amba vhulapfu kana muelo ri tshi mona na tshithu.



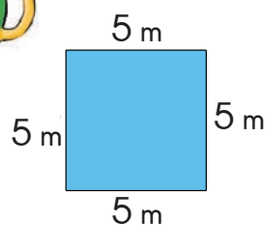
Rabulasi u na bulasi ya tshivhumbeo tsha thiraiengele.

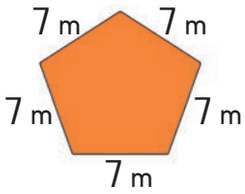
Ri nga wana mudzinge wa puloto iyi nge ra ṱanganya vhulapfu ha matungo.

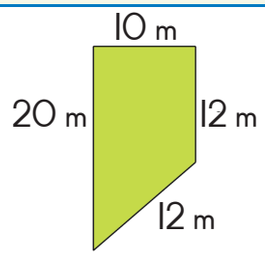
Mudzinge = 12 m + 12 m + 6 m = 30 m



Wanani mudzinge.

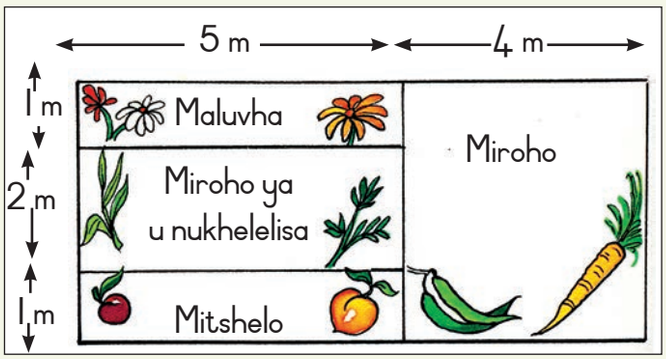








Ngade ya Veronica.



Veronica u ola mudzinge wa ngade ine a ṱoḓou lima.

a. Mudzinge wa tshipiḓa tshine a ḓo lima khatsho miroho ya u nukhelelisa ndi uf hio?

_____

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

_____ na _____ zwi na mudzinge wa _____ m.

c. U khou ṱoḓa ita luhura lwa ḓaraṱa u mona na ngade yoṱhe. Ḓaraṱa i ḓura R50 nga mithara. Luhura lwa ḓaraṱa lu ḓo ḓura vhugai? _____

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Pulanelani ngade yaṋu inwi muṋe.

Shumisani bammbiri ḽa giridi ḽi re kha Tshigeriwa 7 kha u pulanela ngade yaṋu inwi muṋe. Sumbedzani mielo yoṱhe khathihi na zwimela zwine na nga tama u zwi ṱavha.



U ela zwitendeledzi.

Shumani ni na phathinara yaṋu.

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



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

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



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95a U renga tshelede

Deithi:

Tambani mitambo i tevhelaho ni na phathinara yaṋu.

Matheriaḽa:

RIOO RIO

RI IOc Ic



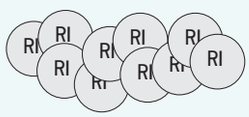
RIOO	RIO	RI	IOc	Ic

Bodo ya tshelede (Tshigeriwa 8),
Bammbiri na penisela, daisi mbili, tshelede ya u tambisa
(i wanala kha Tshigeriwa 9): Noutu dza RIOO na RIO; khoini dza RI, IOc na Ic.
Vheani Bodo ya Tshelede nṱha ha ṱafula.
Bodo i na zwikhala (khethekanyo) zwa 5 zwi no bva kha tshamonde zwi tshi ya kha tsha u ḽa, RIOO, RIO, RI, IO senthe, na I senthe. Kha mutambo uyu ri khou shumisa kholomo tharu dza u thoma.



Ṱanganyani u swika kha Rannda dza IOO.

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



= RIO

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

RIO RIO RIO RIO RIO RIO RIO RIO RIO RIO = RIOO

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

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

1 2 3 4 5 6 7 8 9 10

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Ṱusani u thoma kha RIOO u swika kha RO.

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

RIOO	RIO	RI	IOc	Ic



Muṱanganyo na muṱuso u swika kha RI OOO.

Ṱanganyani ṱhanganyelo i re kha daisi kha raundu iṅwe na iṅwe, ni dzhie noutu dza RIO dza nomboro yeneyo. Muthu wa u thoma u swika kha RI OOO o wina. Kana, thomani nga RI OOO, ni ṱuse kha raundu iṅwe na iṅwe. Mutambi wa u thoma u swika kha RO o wina.



U ṱanganya u swika kha RI.

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



Ṱusani masenthe.

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



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95b

Deithi:

Kha ri ye mavhengeleni!



Seiḽi ya miṅadzi.

Vhengeleni vha rengisa miṅadzi ya 5 nga mitengo yo fhambananaho.





							Ṱhanganyelo
Muṅadzi wa a 	R20	R20	R20	R20	R20	R20	RI20
Muṅadzi wa b 	R25	R25	R25	R25	R25	R25	
Muṅadzi wa c 	R50	R50	R50	R50	R50	R50	
Muṅadzi wa d 	R75	R75	R75	R75	R75	R75	
Muṅadzi wa e 	RIOO	RIOO	RIOO	RIOO	RIOO	RIOO	

a. Wanani veḽu ya miṅadzi kha rou iṅwe na iṅwe.

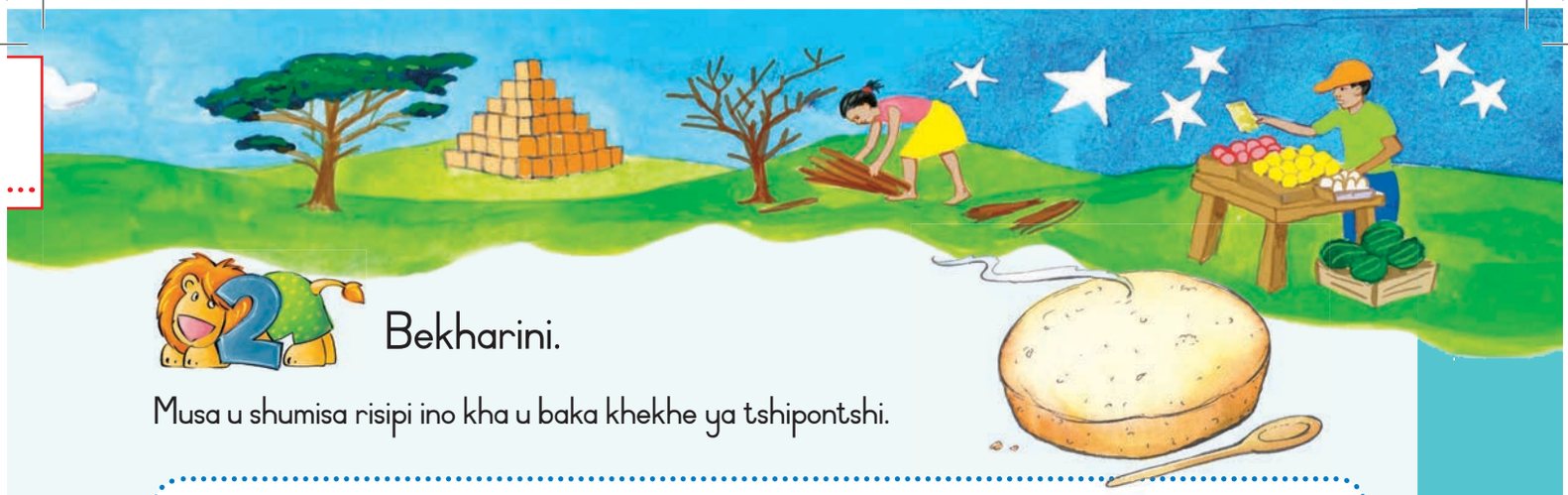
b. Vho Mme Madzanga vha renga muṅadzi wa I wa lushaka luṅwe na luṅwe.
Vha badela vhugai yo ṱangana yoṱhe? _____

Ṱolani!
Vhambedzani!
Lulamisani

c. Buti u shumisa R450 yo ṱangana yoṱhe. U renga muṅadzi wa I nga RIOO.
U renga miṅwe miṅadzi ifhio? Sumbedzani phindulo dza 2 dzine dza nga wanala.

Phindulo I	Phindulo 2

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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 yoṱhe; Makumba a 3; swigiri aisiṅi ya 50 g

Zwa u shela: Luvhomba lwa 140 ml

a. Wanani uri Musa u ṱoḓa zwithu zwingaf'hani zwa u baka khekhe dza 6.

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

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

Litha ya 1 ya luvhomba i nga ḓodziwa kha: khekhe dza 10; khekhe dza 7; khekhe dza 8.



3 Mbalotshihaḓu.

Ṱolani! Vhambedzani! Lulamisani

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

Teacher:
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Date:

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96

Deithi:

Zwiṅwe hafhu nga data



Tshiṱitshini tsha mapholisa.

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

	Desikeni	Vha khou paṱirola	Khothe
Bababa			×
Maria	×		
Sam	×		
Amos		×	
Dudu			×

Ṅwalani madzina a vhane: Vha vha desikeni. _____

Vha khou paṱirola. _____

Vha vha khothe. _____



Ḓuvha ḽa miri.



Zwikolo zwiṱanu zwi kha muṱaṱisano wa u vhona uri ndi vhafhio vhane vha ḓo ṱavha miri minzhi nga Ḓuvha ḽa Arbor.  = 10 miri

Klipspruit	
Mthonjeni	
Sonskyn	
Thuthong	
Mosiba	

Tshikolo tshiṅwe na tshiṅwe tshi ṱavha miri mingana?

Klipspruit	Mthonjeni	Sonskyn	Thuthong	Mosiba

Zwikolo zwi ṱavha miri mingana yo ṱangana yothe? _____

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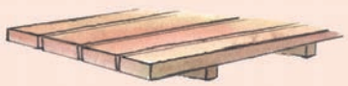


Ndi ṱhanga ifhio?

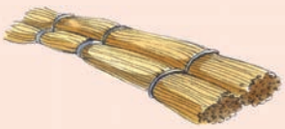
Vha kiḽasi ya Gireidi 3 vha ita ṱhoḓisiso muḓanani.

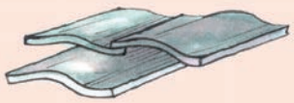
Vha tama u wana tshaka dzo fhambananaho dza ṱhanga dza nnḓu dzo fhambananaho.

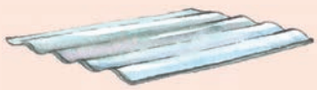
Vha sumbedza mvelelo dzavho nga girafu ya buḽoko.



Vha ita thiki (✓) nthihi kha nnḓu iṅwe na iṅwe ine vha i vhona.







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

Ni vhona ṱhanga nngana dza lushaka luṅwe na luṅwe?

Dzithaiḽi _____ Hatsi _____ Mabulannga _____ Mazennge _____

Ndi lushaka lufhio lwa ṱhanga lu no funeswa? _____

Vha kona u vhala ṱhanga nngana dzo ṱangana dzoṱhe? _____

Saizi (mielo) ya miṅadzi.

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 iṅwe na iṅwe.

2 _____ 3 _____ 4 _____

Ndi saizi ifhio yo andesaho? _____

Ṱolani! Vhambedzani! Lulamisani

Teacher:
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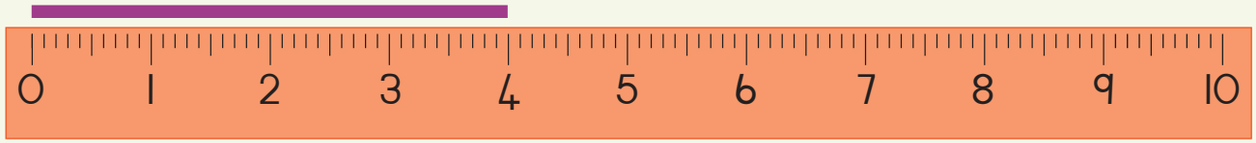
97

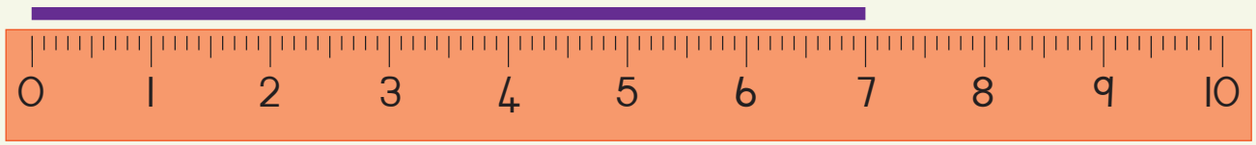
Deithi:

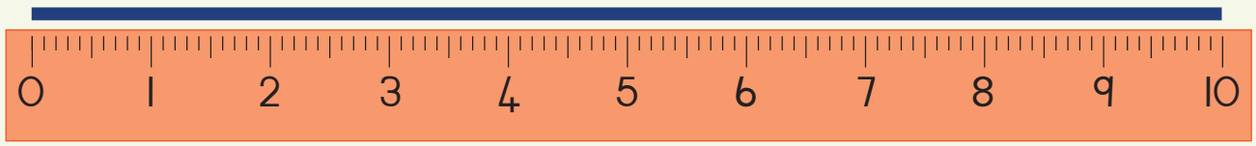
U shuma nga senthimitha



Mutaladzi wo khaḽariwaho wo lapfa lungafhani?









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

Mutaladzi	U anganyela	Muelo	Phambano vhukati ha muanganyelo na muelo

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Shumisani ruḽa kha u ola mitaladzi i tevhelaho.

a. 10 cm

b. 7 cm

c. 15 cm

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

a. Vhulapfu ha bugu._____

b. Vhunṱha ha muṋango. _____

c. Vhulapfu ha penisela _____

d. Vhulapfu haṋu. _____

e. Vhulapfu ha munwe waṋu _____

Ni elelwe ṱhukhuf hadzo dza maipfi dzine ra dzi shumisa. Ri ṅwala cm (senthimitha) na m (mitha).

Kha ṅwaha no shumisa penisela dza u khaḽara dzaṋu ṱhanu. 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 ṱaḓa 11 cm, ya phephuḽu 12 cm, ya tshitopana 9 cm, ya buraunu 14 cm, ntswu 8 cm, ya pinki 13 cm ngeno tshena i 15 cm.



a. Ndi penisela if hio ye na i shumisesa? _____

b. Ndi penisela if hio ye na si i shumisese? _____

c. Ṅwalani vhulapfu ha penisela dzaṋu u thoma kha pfuf hisa u swika kha ndapfusa _____

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Deithi:

Nomboro 700 u swika kha 800



Vhalani ni ṅwale.



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

700

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

b. Ṅwalani nomboro dzi no khou ṱahela kha giridi i re afho nṱha.

c. Ṅwalani nomboro dza 10 dzi no tevhela 750.

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

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

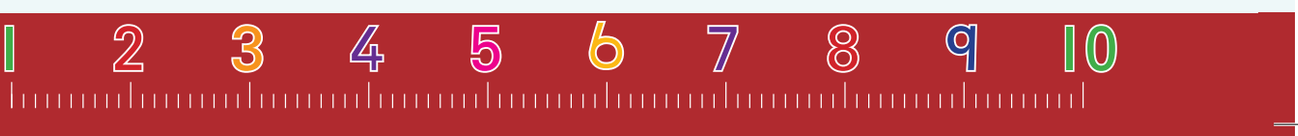
762; 764; 766; _____; _____; _____; _____; _____; _____; _____

e. Ṅwalani nomboro dzoṱhe dzi re kha phetheni ya dzi2 u bva kha 751 u swika kha 773.

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

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

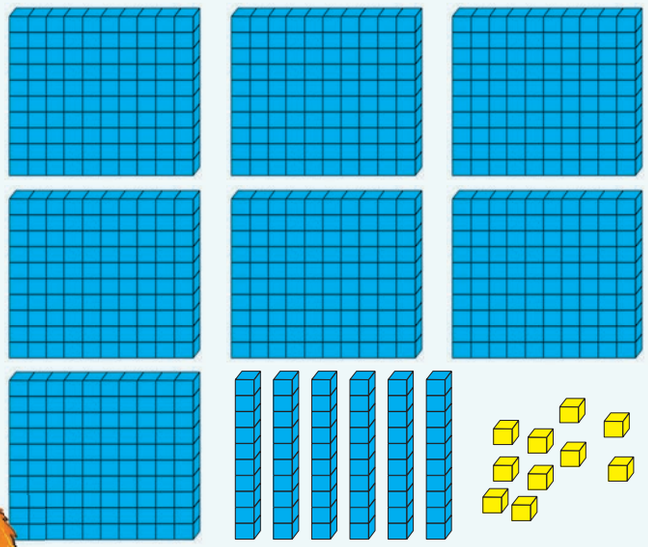
751; 756; 761; _____; _____; _____; _____; _____; _____; _____



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2 Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?

3 Fhedzisani mitalombalo.

750			753				757		759	
							789	786	788	
					753	756	759			

4 Fhedzisani thebuḽu.

	Ṅwalani u bva kha ṱhukhusa u ya kha khulwanesa	Ṅwalani u bva kha khulwanesa u ya kha ṱhukhusa
776, 772, 779, 770, 778		
736, 703, 730, 713, 703		

5 Ṅwalani zwi tevhelaho nga maipfi.

788	

Teacher:
Sign:
Date:

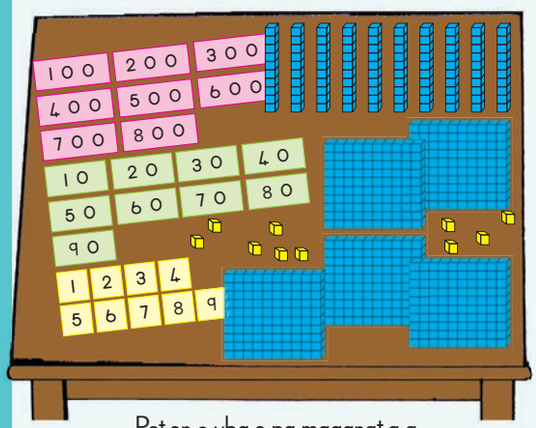
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99

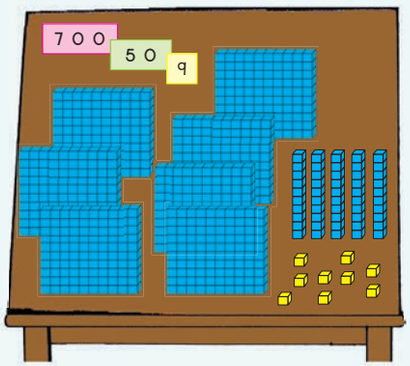
Deithi:

Nomboro dziṅwe
hafhu 700 u swika kha 800

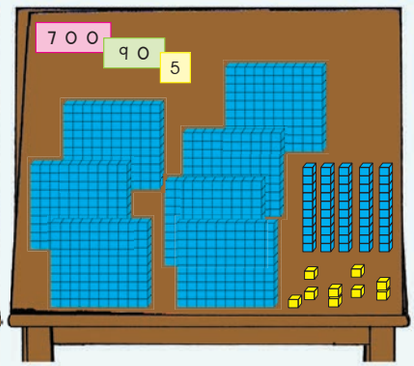


Peter o vha e na magaraṱa a vhuimo ha nomboro na zwibuḽoko zwa beisi ya fumi zwi tevhelaho.

Mudededzi vho humbela Peter uri a sumbedze 759 nga magaraṱa awe na zwibuḽoko.

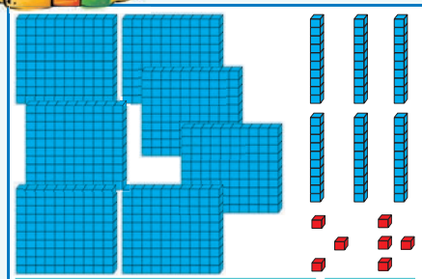
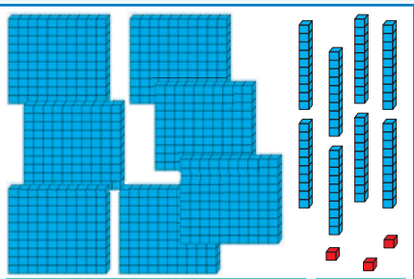
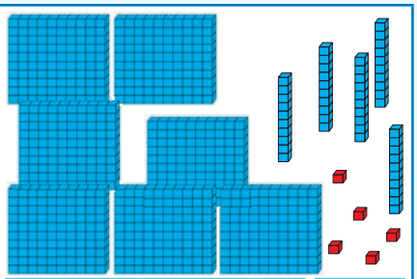


Hezwi ndi zwe Ben a sumbedza zwone. O khakha ngafhi?





Ṅwalani fhungo ḽa nomboro ni tevhedze nga phindulo.

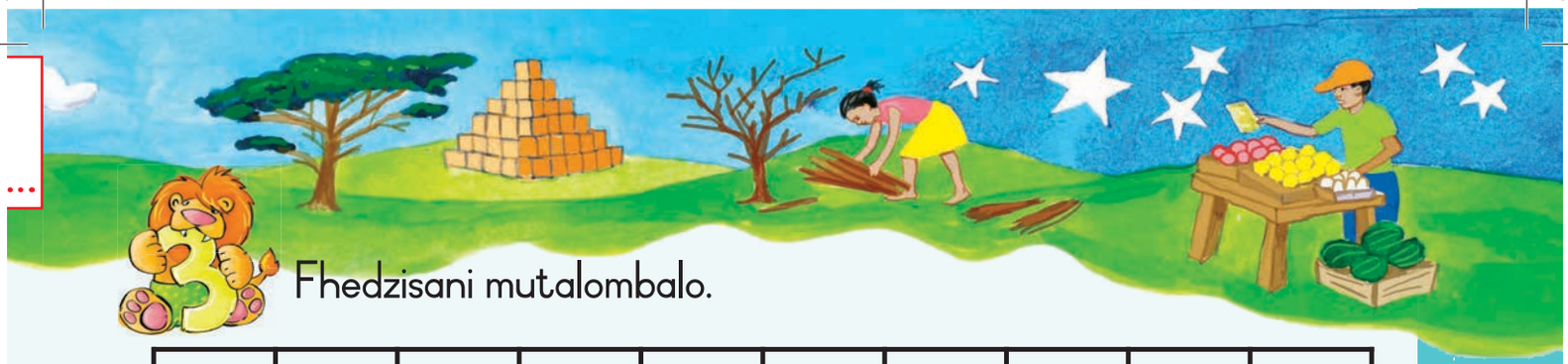
		
700 + 60 + 7 = 767		



Ṅwalani fhungo ḽa nomboro ni tevhedze nga phindulo.

7 0 0 9 0 9	5 0 0 5 0	6 0 5
700 + 90 + 9 =		

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Fhedzisani mutalombalo.

789	790	791								799

Mpheni nomboro dzoṱhe dzi re ṱhukhu kha 795. _____

Mpheni nomboro dzoṱhe dzi re khulwane kha 795. _____

Dzhenisani < kana > =

a. 799 _____ 766 b. 745 _____ 750

c. 700 + 90 + 7 _____ 767

Paḓulani nomboro yaṋu.

a. Fhaṱani nomboro iṅwe na iṅwe nga magaraṱa aṋu.

b. Ṅwalani veḽu (ndeme) ya didzhiti iṅwe na iṅwe. Zwino ṱani hezwi: Paḓulani nomboro yaṋu.

790	
689	
699	
755	
690	

Tsumbo: 799

700	
90	
9	
799	700 + 90 + 9

Ṅwalani madzina a nomboro.

668	
757	
799	
742	
691	

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Deithi:

Nomboro 800 u swika kha 900



Vhalani ni ṅwale!

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



800

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

b. Ṅwalani nomboro dzi no khou ṱahela kha giridi i re afho nṱha.

c. Ṅwalani nomboro dza 10 dzi no tevhela 800.

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

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

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

e. Ṅwalani nomboro dzoṱhe dzi re kha phetheni ya dzi2 u bva kha 807 u swika kha 829.

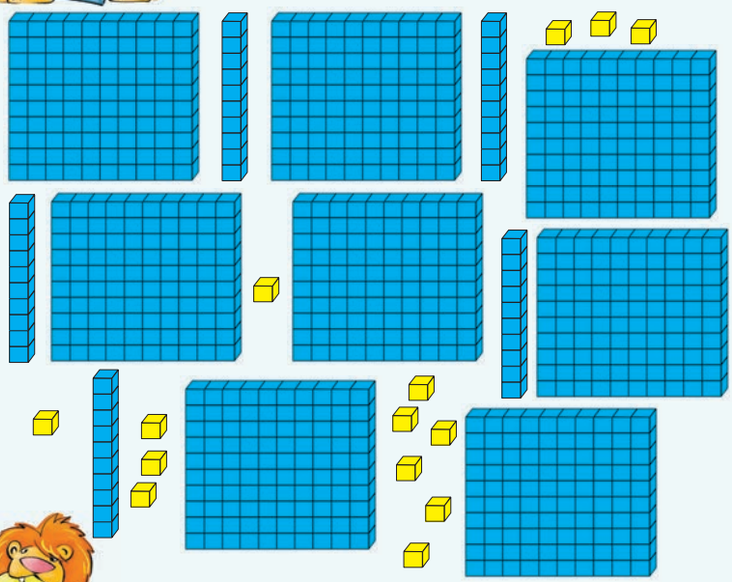
807; _____; _____; _____; _____; _____; _____; _____; _____; _____; _____ 829

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

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

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2 Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?

3 Fhedzisani mitalombalo.

830			833				837	838		
							876	881	886	
					843	846	849			

4 Fhedzisani thebuḽu.

	Ṅwalani u bva kha ṱhukhusa u ya kha khulwanesa	Ṅwalani u bva kha khulwanesa u ya kha ṱhukhusa
856, 853, 855, 851, 857		
898, 801, 810, 819, 891		

5 Ṅwalani zwi tevhelaho nga maipfi.

845	

Teacher:
Sign:
Date:

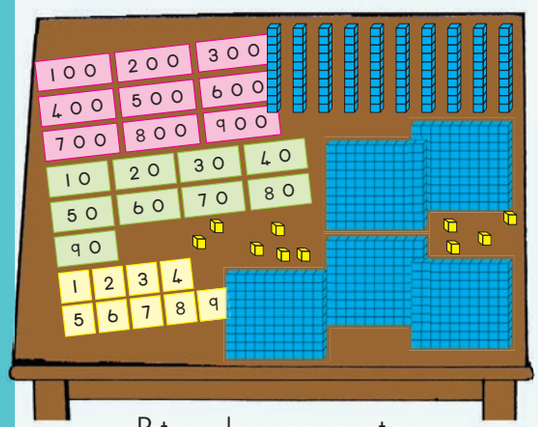
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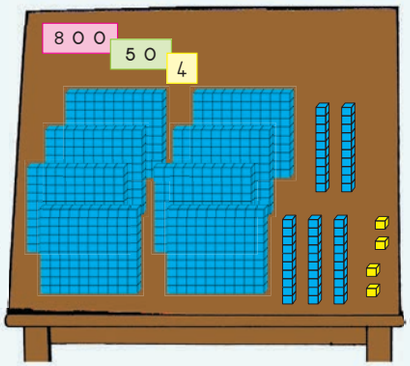
Deithi:

Nomboro dziṅwe hafhu
800 u swika kha 900

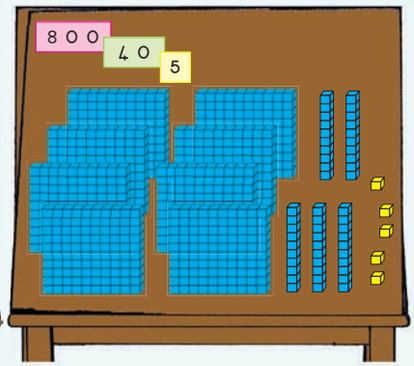


Peter o vha e na magaraṱa a vhuimo ha nomboro na zwibuḽoko zwa beisi ya fumi zwi tevhelaho..

Mudededzi vho humbela Peter uri a sumbedze 854 nga magaraṱa awe na zwibuḽoko.

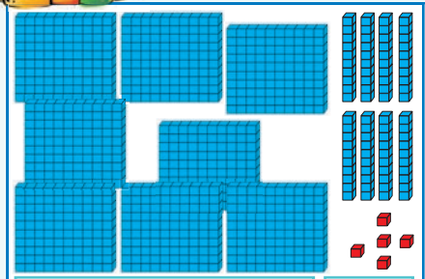


Hezwi ndi zwe Ben a sumbedza zwone. O khakha ngafhi?





Ṅwalani fhungombalo ni tevhedze nga phindulo.



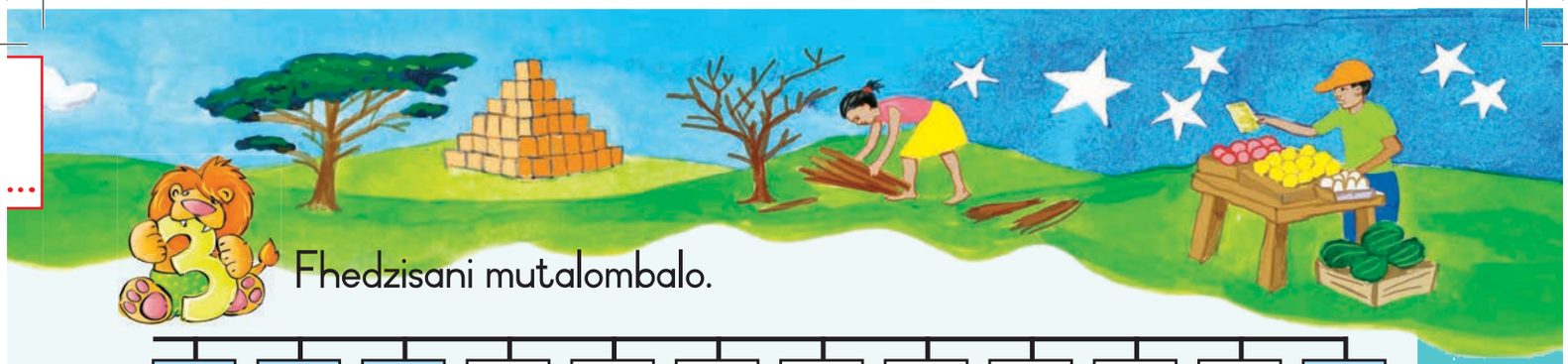
800 + 80 + 5 =	885		



Ṅwalani fhungombalo ni tevhedze nga phindulo.

800 50 2	800 90 7	800 3
800 + 50 + 2		
=		

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3 Fhedzisani mutalombalo.

889	890	891									900

Mpheni nomboro dzoṱhe dzi re ṱhukhu kha 894. _____

Mpheni nomboro dzoṱhe dzi re khulwane kha 894. _____

4 Dzhenisani < kana > =

a. 899 _____ 898 b. 802 _____ 820

c. 900 + 70 + 5 _____ 785

5 Paḓulani nomboro yaṋu.

a. Fhaṱani nomboro iṅwe na iṅwe nga magaraṱa aṋu.

b. Ṅwalani veḽu (ndeme) ya didzhiti iṅwe na iṅwe. Zwino itani hezwi: Paḓulani nomboro yaṋu.

890	
889	
802	
855	
840	

Tsumbo: 876

8 0 0

7 0

6

8 7 6

876 800 + 70 + 6

6 Ṅwalani madzina a nomboro.

889	
825	
803	
830	
899	

Teacher:

Sign:

Date:

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102a

Deithi:

U ḽkala zwithu



Lavhelesani zwifanyiso zwi tevhelaho ni fhindule mbudziso.



a. Vhukhopfu ha u kuvha ha 1 kg hu leluwa kana hu lemela u fhira ha 2 kg?

b. Hu leluwesa tshifhio: Siri ḽ i ya mukapu ya 500 g kana mabesikitsi a 200 g?

c. Hu lemelesa tshifhio: Khirimu ya lukanda ya 100 g kana phakhethe ya 1 kg ya tshi ḓ ammba?



Ro ṱ he ro ṱ angana ri lemela vhugai?

N ṋ e ndi lemela 25 kg, khonani yanga 29 kg ngeno mukomana wanga a tshi lemela 45 kg.



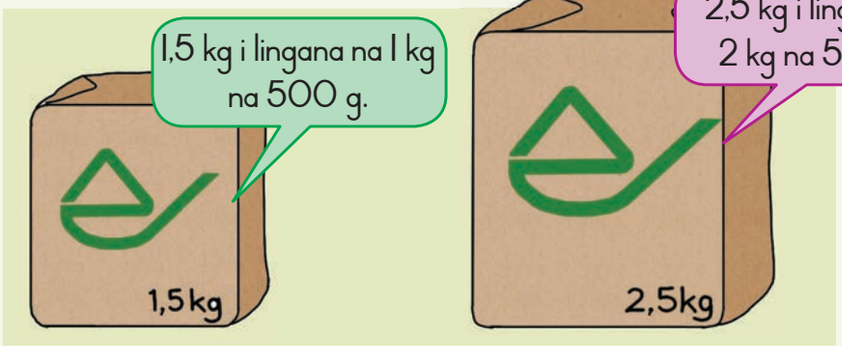
Zwibveledzwa izwi zwo ṱ he zwi lemela vhugai?

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.

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4 Lavhelesani zwifanyiso zwi tevhelaho ni fhindule mbudziso.



Ndi nga ṅwalisa hani 3,5 kg nga dzikhiḽogireme na dzigireme?

5 Fhedzisani thebuḽu.

Mudededzi waṋu vha ḓo ni fha zwithu zwiṱanu zwine na nga sedza. Anganyelani zwileme zwazwo ni kone u zwi ela.

Tshithu	Nyanganyelo	Muelo	Phambano vhukati ha nyanganyelo na muelo

6 Zwibveledzwa zwi lemela vhugai zwoṱhe?

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:

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102b

Deithi:

Kha ri kale hafhu

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

Ndeme ndi mpimo wa maanḓa a giravithi a no khou kokodzela fhasi metha. Giravithi a si nnzhi ṅwedzini lune zwithu zwa lemela zwiṱuku.

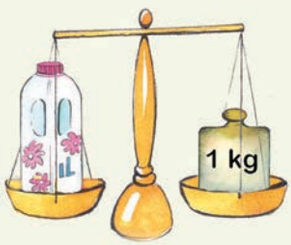
Fhano shangoni ri shumisa zwikalo zwi no fana kha tshileme na ndeme. Ri kala tshileme nga khilogreme na gireme.

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.

Ḽitha ya maḓi i na tshileme tsha 1 kg.



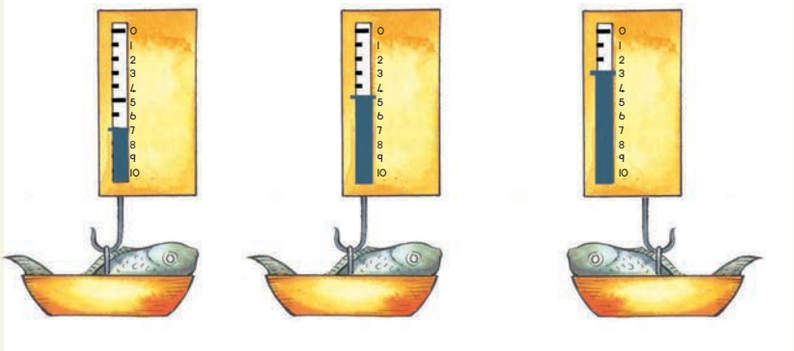


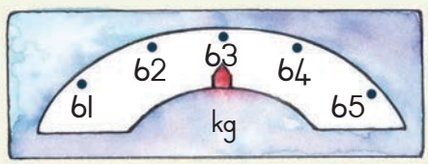
Khovhe i na tshileme tsha 3 kg.

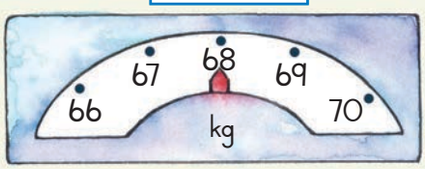


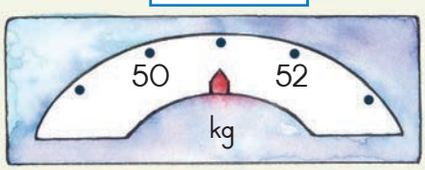
Wanani zwileme zwavho.

Ṅwalani tshileme nga kg dze dza sumbedzwa kha tshiṅwe na tshiṅwe tsha zwikalo izwi zwa tshipirinngi.









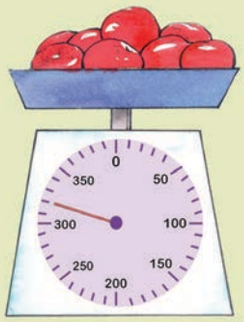
TSH MATHS G3 B2 9781431501564.indb 80 2014/06/27 12:27 PM



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

1 000 g = 1 kg

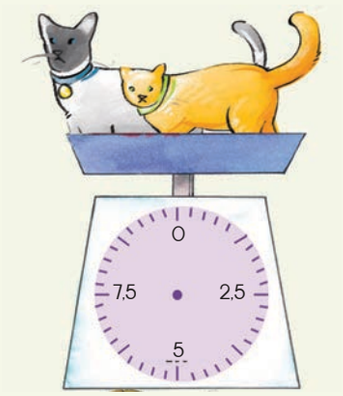
Kha tshikalo itshi tsha tshipirinngi, mutalo muṅwe na muṅwe muṱuku ndi gireme dza 10. Maṱamaṱisi a lemela gireme dza 320.



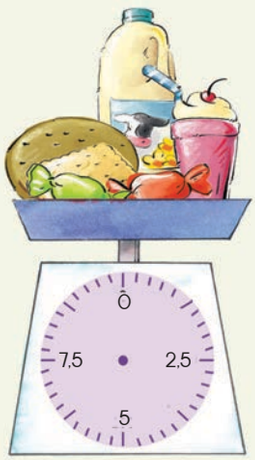


Zwilemela vhugai?

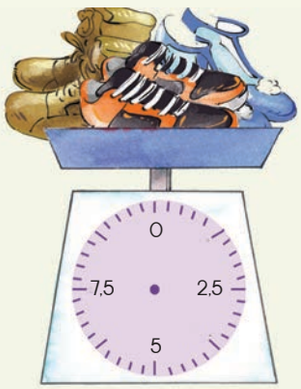
Olani hune musevhe wa tshikalo wa tea u sumba tshifhinga tshoṱhe.



7 kg



4 kg



6 kg



Itani khiḽogireme.

Ṱanganyani ni ite 1 kg (1 000 g).

a. 125 g + 250 g + 125 g + _____ g = 1 000 g (1 kg)

b. 50 g + 30 g + 240 g + 60 g + 100 g + _____ = 1 kg

c. 57 g + 46 g + 243 g + 334 g = _____ = 1 000g (1 kg)

d. 50 g + 90 g + 160 g + _____ = 1 000 g (1 kg)

Teacher:
Sign:
Date:

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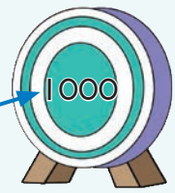
Deithi:

Nomboro 900 u swika kha 1 000



Vhalani ni ṅwale.

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



900

901		903							910
								919	
		943					948		
981									
991								999	

b. Ṅwalani nomboro dzi no khou ṱahela kha giridi i re afho nṱha.

c. Ṅwalani nomboro dza 10 dzi no tevhela 900.

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

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

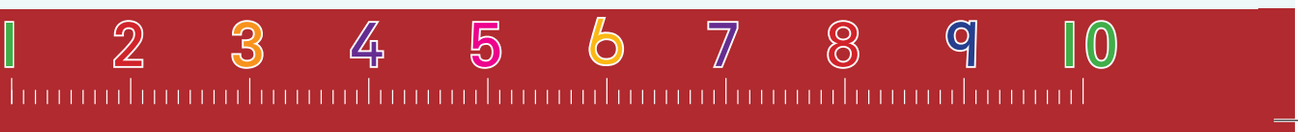
946; 948; 950; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

e. Ṅwalani nomboro dzoṱhe dzi re kha phetheni ya dzi2 u bva kha 945 u swika kha 967.

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

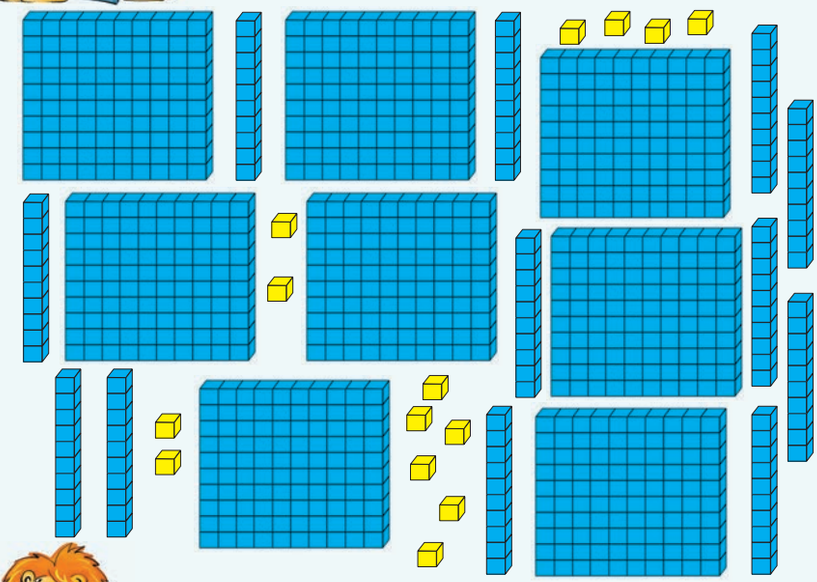
f. Ṅwalani nomboro dza 8 dzi no tevhela dzi kha phetheni ya dzi5.

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



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2 Ni kona u vhala zwibuḽoko zwingana?



Zwibuḽoko izwi no zwi vhalisa hani?

3 Fhedzisani mitalombalo.

950			953				957	958		
							956	961	966	
					903	906	909			

4 Fhedzisani thebuḽu.

	Ṅwalani u bva kha ṱhukhusa u swika kha khulwanesa	Ṅwalani u bva kha khulwanesa u ya kha ṱhukhusa
936, 933, 935, 931, 937		
978, 907, 970, 917, 971		

5 Ṅwalani zwi tevhelaho nga maipfi.

695	

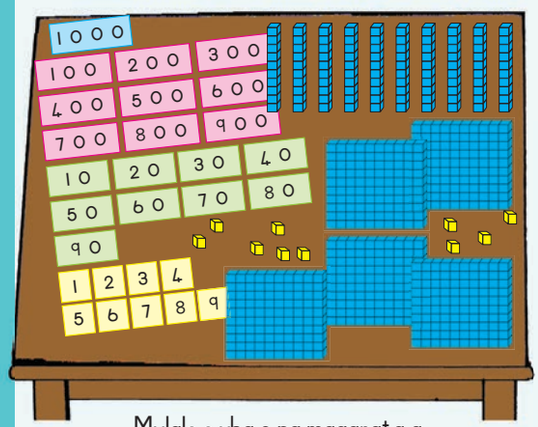
Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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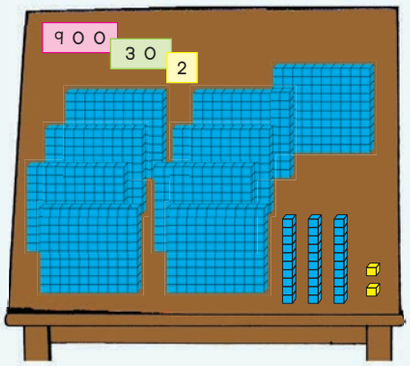
Deithi:

104 Nomboro dziṅwe hafhu 900 u swika kha 1 000

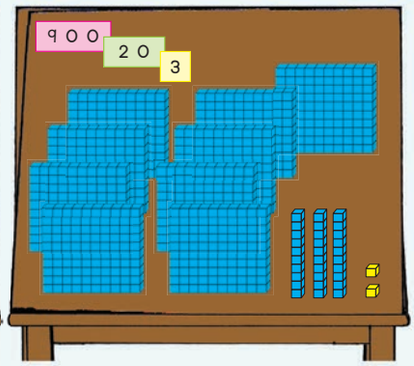


Mulalo o vha e na magaraṱa a vhuimo ha nomboro na zwibuḽoko zwa beisi ya fumi zwi tevhelaho.

Mudededzi vho humbela Mulalo uri a sumbedze 932 nga magaraṱa awe na zwibuḽoko.

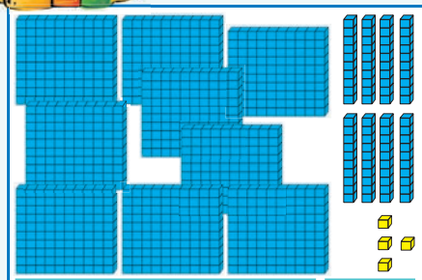
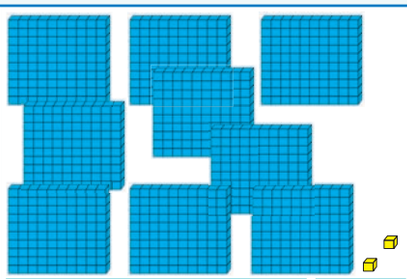
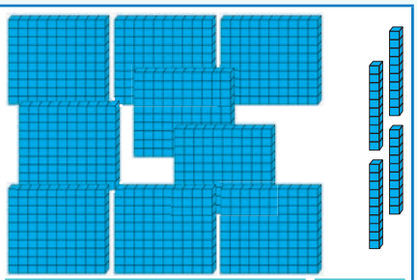


Hezwi ndi zwe Gugu a sumbedza zwone. O khakha ngafhi?





Ṅwalani fhungo ḽa nomboro ni tevhedze nga phindulo.

		
900 + 80 + 4 = 984		



Ṅwalani fhungombalo ni tevhedze nga phindulo.

900 + 90 + 9 =		

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3 Fhedzisani mutalombalo.

989	990	991								999

Mpheni nomboro dzo̱the dzi re ṱ̱hukhu kha 995. _____

Mpheni nomboro dzo̱the dzi re khulwane kha 995. _____

4 Dzhenisani < kana > =

a. 999 _____ 998 b. 957 _____ 975

c. 900 + 60 + 1 _____ 961

5 Pa̱dulani nomboro ya̱nu.

a. Fha̱tani nomboro iṅwe na iṅwe nga magara̱ta a̱nu.

b. Ṅwalani ve̱lu (ndeme) ya didzhiti iṅwe na iṅwe. Zwino itani hezwi: Pa̱dulani nomboro ya̱nu.

922	
959	
980	
907	
931	

Tsumbo: 984

900

80

4

984

984	900 + 80 + 4

6 Ṅwalani madzina a nomboro.

976	
905	
950	
821	
909	

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

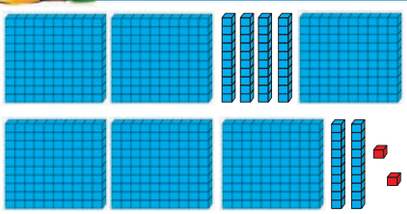
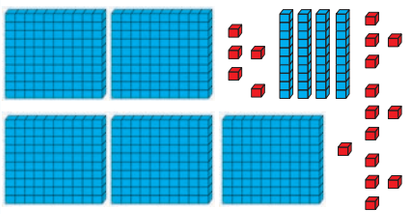
Tshivenda G3 B2 Num Gr3-97-112.indd 85 2014/07/02 1:26 PM

105 Muṱanganyo na muṱuso u swika kha 999

Deithi:



Ṅwalani fhungombalo ḽa iṅwe na iṅwe.

	Ṱalutshedzani uri no vhalisani hani zwibuḽoko. _____
	Ṱalutshedzani uri no vhalisani hani zwibuḽoko. _____



Shumisani tsumbo uri i ni dededze.

5 0 5 0 nyingakavhili (davhulu) ya 50 ndi 100	3 0 0 3 0 0 ☐
2 0 0 2 0 0 ☐	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 =		



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

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

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

c. 470 + 470

d. 461 + 462

Thasululani zwi tevhelaho:



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

Teacher:
Sign:
Date:

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106

Deithi:

Hayani

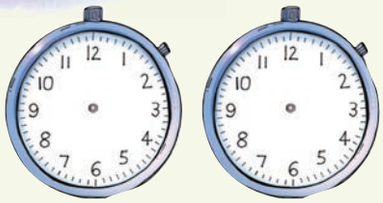


Ḓuvha ḽa u baka.



Makhadzi Vho Masindi vha baka vhurotho ovenini.

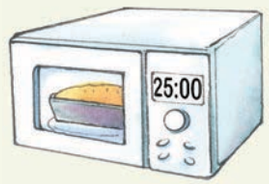
Sumbedzani zwifhinga kha watshi idzi.



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

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

Vhurotho vhu dzhia tshifhinga tshingafhani uri vhu vhibve? _____



Mme a Ann vha shumisa oveni ya maikhiroweivi. I a ṱavhanya nga maanḓa.

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

Vhurotho vhu ḓo vhibva nga tshifhingaḓe? _____

Oveni ya mikhiroweivi i ṱavhanya lungafhani u fhira iḽa iṅwe? _____ Nga minete ya.



Mishumo ya nga matsheloni.





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

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

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U sheledza ngade.

Hosiphaiphi i nga kona u shumisa maḓi a ḽitha dza 30 nga minete wa II!

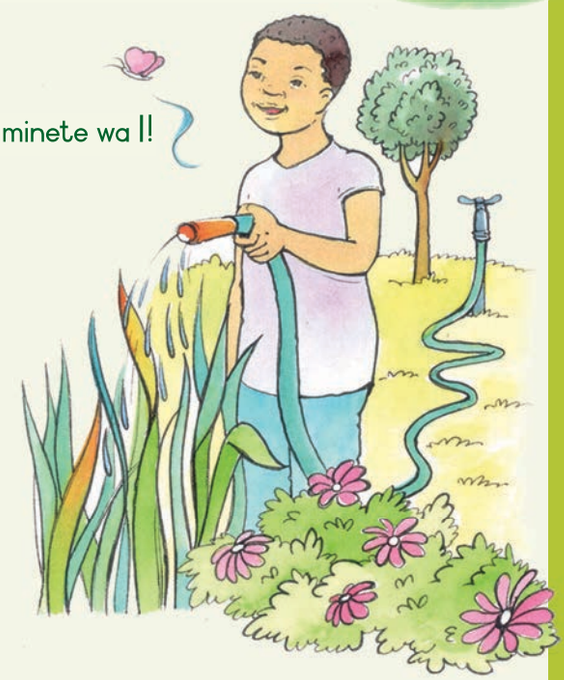
Hosiphaiphi i nga kona u shumisa maḓi a ḽitha nngana nga:

minete ya 2 ndi ḽitha dza _____

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

minete ya 5 ndi ḽitha dza _____

minete ya 10 ndi ḽitha dza _____



U bika ṋama ya khere.

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

Vha a ṅwala uri vho shumisa oiḽi nngafhani ḓuvha ḽiṅwe na ḽiṅwe.

Mus	Ḽavhuv	Ḽavhur	Ḽavhuṋ	Ḽavhuṱ	Mug	Sun
98 ml	122 ml	108 ml	117 ml	109 ml	135 ml	?

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

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

c. Boḓelo ḽithihi ḽa 750ml ḽa mapfura ḽi ḓura R18,50

Maboḓelo a 4 a ḓura vhugai? _____.



Ṱolani!
Vhambedzani!
Lulamisani

Teacher:
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Date:

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107 U shuma nga tshelede

Deithi:



Vhalani khoini na dzinoutu.

10 ×  = R1	20 ×  = R_____	50 ×  = R_____
10 ×  = R_____	20 ×  = R_____	50 ×  = R_____
10 ×  = R_____	20 ×  = R_____	50 ×  = R_____
10 ×  = R_____	20 ×  = R_____	50 ×  = R_____
10 ×  = R_____	20 ×  = R_____	50 ×  = R_____

100 ×  = R_____	100 ×  = R_____	100 ×  = R_____
100 ×  = R_____	100 ×  = R_____	



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).





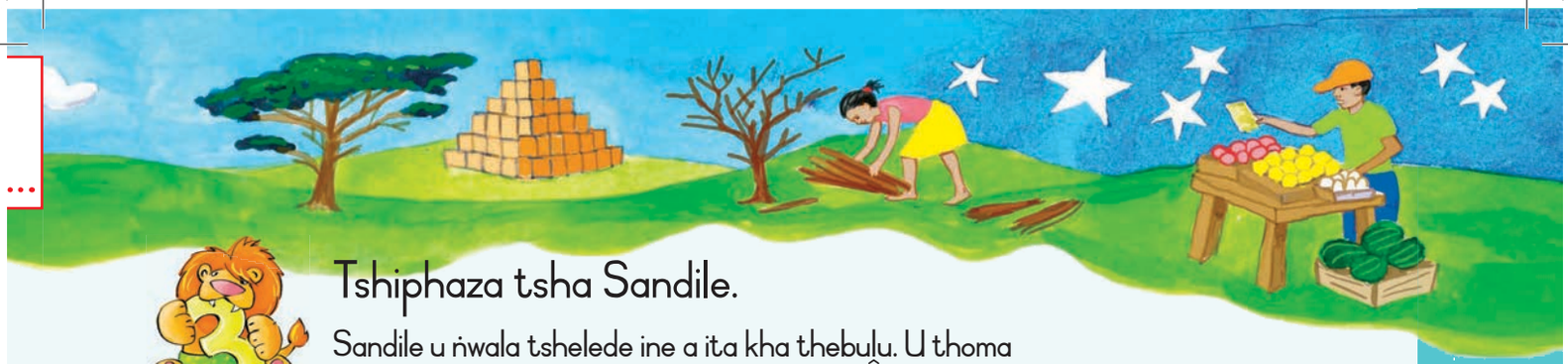
Vha wana tshintshi ya R30.

Tolani!
Vhambedzani!
Lulamisani

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

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

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Tshiphaza tsha Sandile.

Sandile u ṅwala tshelede ine a ita kha thebuḽu. U thoma nga u anganyela, a kona u rekanya uri hu na mbuelo ya vhugai nga ḓuvha. Mbuelo ndi tshelede ine ra i hola kana ra i ṱanganedza. Thusani Sandile uri a fhedzise murekanyo wawe. Ṅwalani phindulo dzaṇu kha thebuḽu:

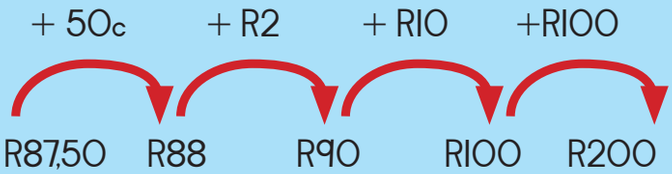
		Anganyelani	Ṱhanganyelo
Musumbuluwo	R50 + R75 + R200 + R350 + R25		
Ḽavhuvhili	R25 + RI75 + R50 + R320 + R90		
Ḽavhuraru	R50 + R75 + R200 + R350 + R25		
Ḽavhuṇa	RI20 + R55 + RI80 + R245 + R25		
Ḽavhuṱanu	R60 + RI50 + RI40 + R200 + RI25		
Mugivhela	R50 + R75 + R200 + R350 + R25		
Swondaha			

Wanani uri tshintshi ndi vhugai.

U itela u wana tshintshi, ni nga ṱanganya u thoma kha uri zwithu zwi ḓura vhugai, ha tevhela uri ndi vhugai ine na ḓo badela yone.

Tsumbo:

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



50c + R2 + RIO + RIOO = RII2,50 tshintshi

Shumisani mitalombalo uri i ni thuse u wana tshintshi.

Mutengo: R229,40
Ni badela nga:



Mutengo: R305,60
Ni badela nga:



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Deithi:

.....

Muṱanganyo na muṱuso u swika kha 999 hafhu



Kha ri tandulule thaidzo.

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

Mbudziso ndi ifhio?
Hu na zwiṱikara zwingana zwino?

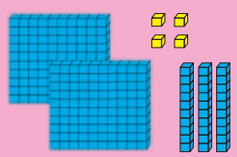
Ipfi ḽi re khii ndi ḽifhio? zwinzhi

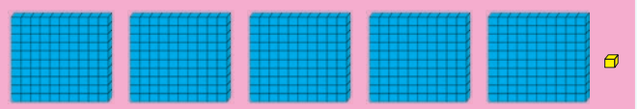
Nomboro ndi ifhio? 234 na 501

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.





Kuvhetshele 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 nḓila (ngona) dze na guda u swika zwino.

Nḓila ya 1	Nḓila ya 2

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Mishumo ya nga matsheloni.

Thembi u kuvhanganya zwithu a tshi itela thandela ya tshikolo ya u vusuludza malaṱwa. O kuvhanganya maboḓelo a puḽasitiki a 624 na zwikoṱikoṱi zwa 268. O kuvhanganya zwithu zwingana?

Mbudziso ndi ifhio? _____

Nomboro ndi dzifhio?	Ipfi ḽi re khii ndi ḽifhio? Itani thiki kha phindulo yone. Ipfi ḽi re khii ḽi ri vhudza uri ri: Ṱanganye ☐ Ṱuse ☐
Itani nyolo.	Shumisani ndila yaṋu kha u tandulula thaidzo.

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

Mbudziso ndi ifhio? _____

Nomboro ndi dzifhio?	Ipfi ḽi re khii ndi ḽifhio? Itani thiki kha phindulo yone. Ipfi ḽi re khii ḽi ri vhudza uri ri: Ṱanganye ☐ Ṱuse ☐
Itani nyolo.	Shumisani ndila yaṋu kha u tandulula thaidzo.

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Deithi:

Muṱanganyo na muṱuso u swika kha 999 hafhu

Lavhelesani nyolo ni i ṱalutshedze.





Fhedzisani zwi tevhelaho:

a. 223 + 223 = _____.	e. 117 + 117 = _____.
b. 160 + 160 = _____.	f. 450 + 450 = _____.
c. 115 + 115 = _____.	g. 112 + _____ = 224.
d. 315 + 315 = _____.	h. 116 + _____ = 232.

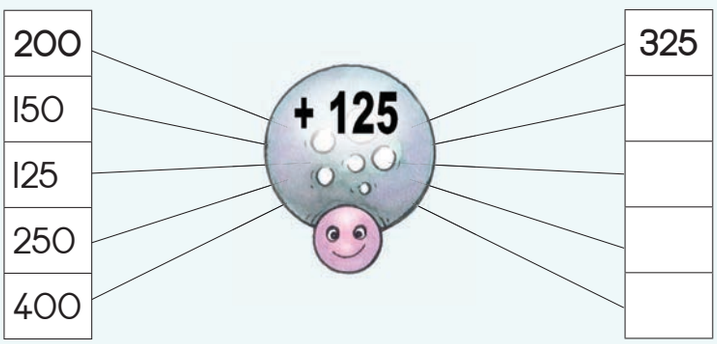


Ṅwalani nomboro.

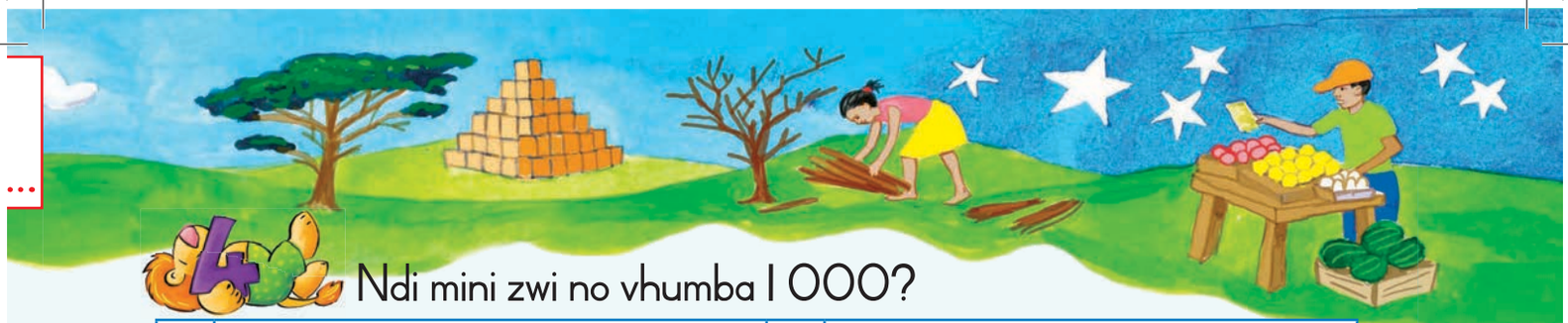
a. 12 nga nṱha ha 523 ndi _____.	e. 537 ho ṱuswa 29 ndi _____.
b. 15 nga nṱha ha 540 ndi _____.	f. Hafu ya 300 ndi _____.
c. 20 nga nṱha ha 576 ndi _____.	g. Davhulu ya 420 ndi _____.
d. 60 nga nṱha ha 590 ndi _____.	h. Hafu ya 600 ndi _____.



Ṱanganyani 125



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4 Ndi mini zwi no vhumba 1 000?

a.	200 + 150 + 50 + ☐ = 1 000	e.	25 + ☐ + 900 = 1 000
b.	1 000 = 560 + ☐ + 400	f.	☐ + 700 + 50 = 1 000
c.	670 + ☐ = 1 000	g.	1 000 = 420 + ☐ + 500
d.	910 + 40 + ☐ = 1 000	h.	☐ + 30 + 900 = 1 000

5 Wanani miṱa ya nomboro dza + na −

Tsumbo: 125 + 600 = 725 725 − 125 = 600 725 − 600 = 125

123 + 77 = ☐	☐ − 77 = 123	☐ − 123 = 77
650 + ☐ = 800	800 − 650 = ☐	☐ + 650 = 800
1 000 − 250 = ☐	1 000 − ☐ = 250	250 + ☐ = 1 000
56 + ☐ = 300	300 − ☐ = 56	☐ + 56 = ☐
820 + ☐ = 1 000	1 000 − ☐ = 820	1 000 − 820 = ☐

Ṱolani!
Vhambedzani!
Lulamisani

Ṱanganyani na uṱusa mahumi na maḓana.

a. Mahumi na maḓana

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 oṱhe (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 = ☐ 571 + 202 = ☐ 786 + 75 = ☐ 903 + 95 = ☐

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Deithi:

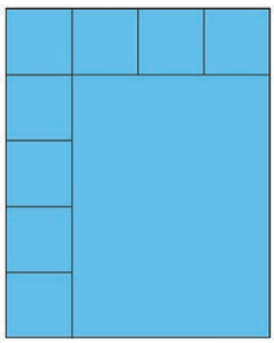
Phaziḽi (khanganyisa) dza mielo



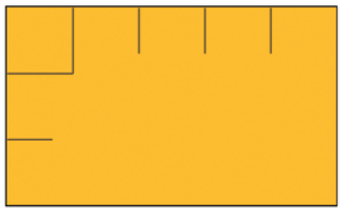
Wanani nyalo.

Ri nga shumisa zwikwea  zwingana zwa saizi iyi kha u vala tshoṱhe iṅwe na iṅwe ya nyolo idzi? Shumisani nḓila yaṋu ya u wana phindulo. Ni nga kha ḓi ola zwikwea kha zwifanyiso uri zwi ni thuse u wana phindulo.

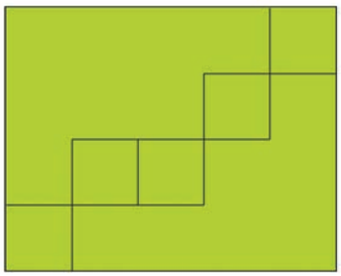
a.



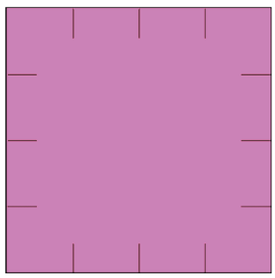
b.



c.

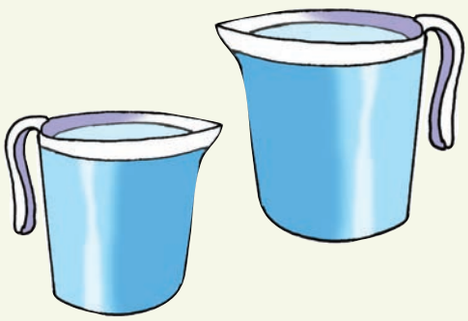


d.





Thasululani thai.



Ni khou ṱoḓa u pima ḽitha dza 4 kokotolo.

Ni na zwifaredzi zwivhili fhedzi: tshithihi dzi ḓala nga ḽitha dza 3 ngeno tshiṅwe tshi tshi ḓala nga ḽitha dza 5. Ni ḓo tou zwi itisa hani?

Lusevhedi: hu na nḓila dzi no swika mbili.

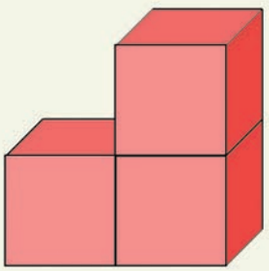
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Ni kona u vhona mini?

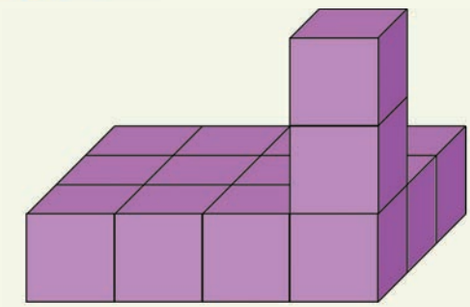
Zwibuḽoko zwiraru zwo nambatelana u fana na tshifanyisoni itshi.



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



Vhalani khiubu.



Ndi khiubu nngana dzi dze dza vhumba tshivhumbeo itshi?

_____



Khaedu: thai ya tshifhinga

Ṱolani!
Vhambedzani!
Lulamisani

Ni na watshi mbili dza muṱavha.

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

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

_____

_____

_____

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Deithi:

Phetheni dza nomboro: mahumi u swika kha 900

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

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



Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni if hio?

Dzo tangedzelwaho nga muvhala mutswuku: U vhalela nga ___.	Nwalani phetheni: _____
Dzo tangedzelwaho nga muvhala mudala: U vhalela nga _____.	Nwalani phetheni: _____



Rekanyani.

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

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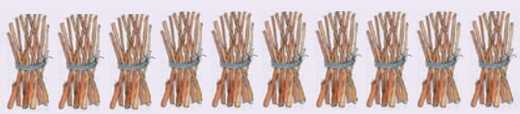


3 Hu na zwitanda zwingana?

Hu na zwitanda  zwa fumi kha ŋanda nthihi.  .

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

4 Rou ya zwitanda.



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

Rou ya 1 ya ŋanda dza 100 = zwitanda zwa 100 $10 \times 10 = 100$

Rou dza 2 dza ŋanda dza 10 = zwitanda zwa_____ $20 \times 10 =$ _____

Rou dza 4 dza ŋanda dza 10 = zwitanda zwa_____ $40 \times 10 =$ _____

Rou dza 10 dza ŋanda dza 10 = zwitanda zwa_____ $100 \times 10 =$ _____

5 Hu na ŋanda nngana?

zwitanda zwa 700 zwi ita ŋanda dza _____.

zwitanda zwa 900 zwi ita ŋanda dza _____.

zwitanda zwa 1 000 zwi ita ŋanda dza _____.



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Deithi:

Sendedzani kha 10 ya tsinisa

Kha bammbiri ḽa u shumela ḽo fhiraho ro ita zwa u sendedza tsini nomboro. Lavhelesani mutalombalo ni ṱalutshedze khonani yaṋu uri ni ḓo sendedza hani nomboro tsini fumi.



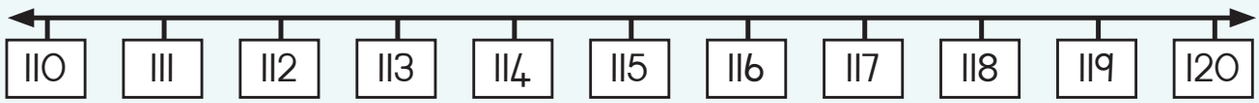




Sendedzani tsini na 10 ya tsinisa.

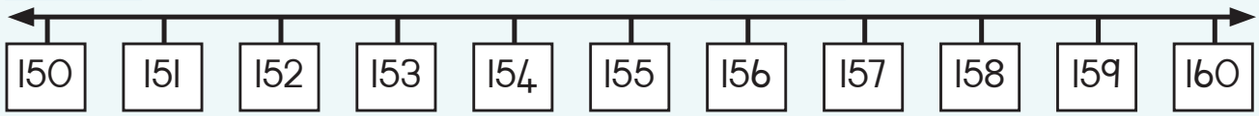
114 yo sendedzwa tsini ndi? _____

117 yo sendedzwa tsini ndi? _____



159 yo sendedzwa tsini ndi? _____

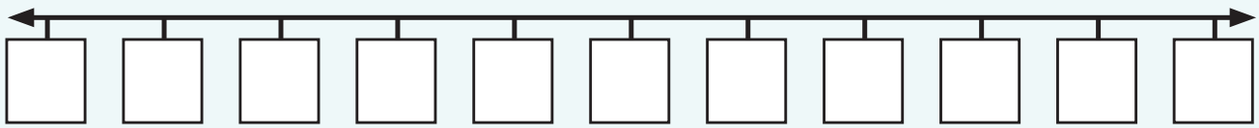
151 yo sendedzwa tsini ndi? _____



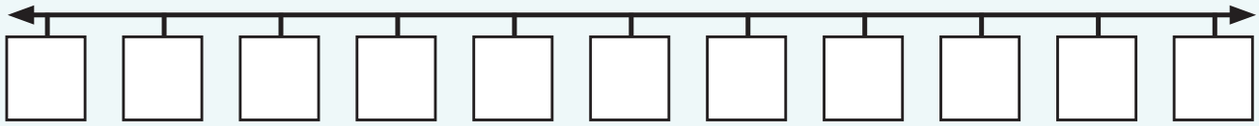


Sendedzani tsini na 10 ya tsinisa.
Olani mutalombalo wa inwi muṋe.

195



945



1 2 3 4 5 6 7 8 9 10

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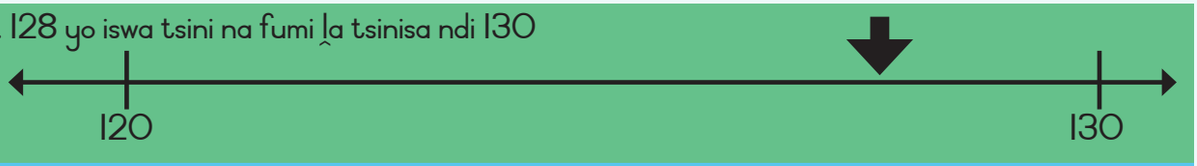
3 Sendedzani tsini na 10 ya tsinisa.

Ni sa athu isa tsini:

a. ṅwalani uri nomboro i no khou sendedzwa tsini i vhukati ha mahumi mavhili afhio.

b. 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 ḽa tsinisa ndi 130



b. 877



c. 901



d. 566



e. 999



4 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 ☐

5 Ndi ḓo shumisa noutu nngana dza RIO?

Mbali na khonani dzawe dza 8 vha khou ya vhuṱamboni ha ḓuvha ḽa u ḓiphiṋa ḽa tshikolo. Ḓuvha iḽi ḽi badelelwa R4 muthu muthihi. Mbali o vhulunga tshelede ine a ḓo badelelavho na avha vhaṅwe 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:
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11 12 13 14 15 16 17 18 19 20

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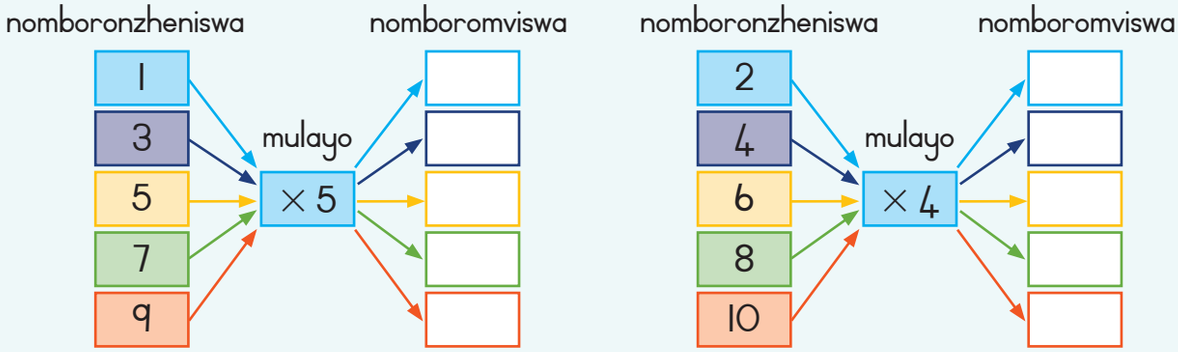
113

Deithi:

Muandiso na mukovho:
u swika kha 100



Fhedzisani nyolo ya muelo.





Fhedzisani thebulu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
5										



Rekanyani:

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

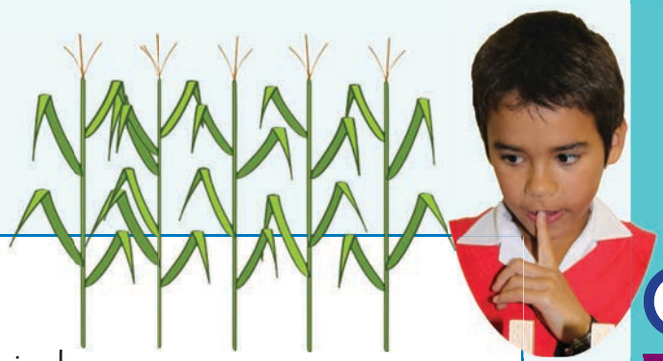
TSH MATHS G3 B2 9781431501564.indb 102 2014/06/27 12:27 PM



45 ÷ 5 = (40 + 5) ÷ 5 = (45 ÷ 5) + (5 ÷ 5) = 8 + 1 = 9	75 ÷ 5
48 ÷ 5 = (40 + 8) ÷ 5 = (40 ÷ 5) + (8 ÷ 5) = 8 + 1 ha sala 3 = 9 ha sala 3	13 ÷ 5



Tandululani mbalo dzi tevhelaho:



Ngade ya miroho i na rou dza 14 dza zwimela.

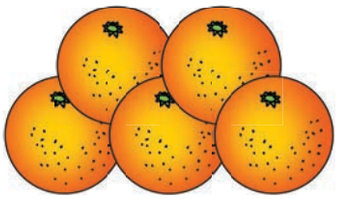
Rou iṅwe na iṅwe i na tshivhalo tshi no fana tsha zwimela.

Arali ṱhanganyelo ya zwimela i 70, hu na zwimela zwingana kha rou iṅwe na iṅwe?

David u rengisa zwikedzi zwi re na maswiri maṱanu kha tshiṅwe na tshiṅwe.

U na maswiri a 85.

A nga ḓadza zwikedzi zwingana.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

TSH MATHS G3 B2 9781431501564.indb 103 2014/06/27 12:27 PM

114

Deithi:

.....

Phetheni dza nomboro:
ṱhanu u swika kha 1 000

Kha ri vhale nga ṱhanu 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?

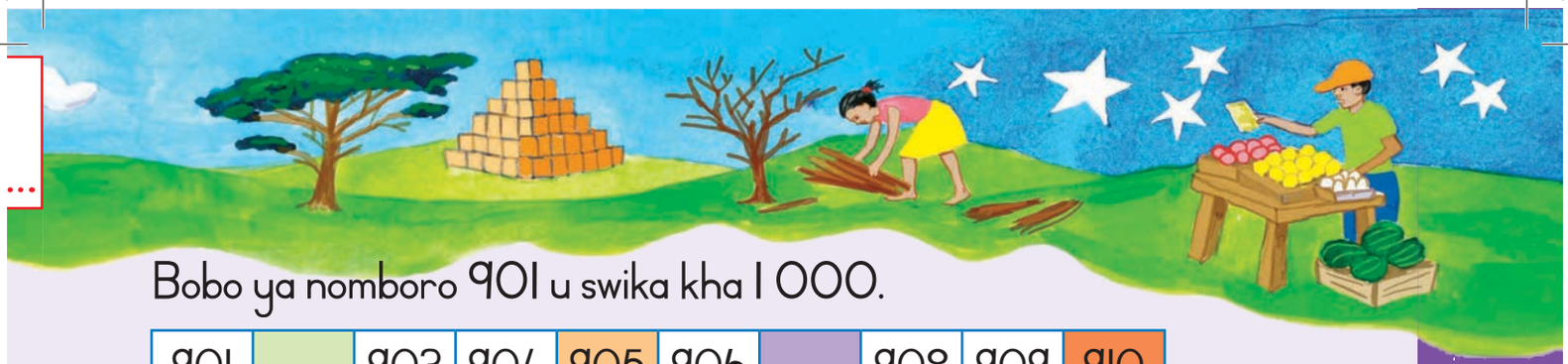
Dzo tangedzelwaho nga muvhala wa lutombo:	U vhalela nga _____.
U vhalela nga	
Dzo tangedzelwaho nga muvhala phephuḽu:	U vhalela nga _____.
U vhalela nga	



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 = ____

Tshivenda G3 B2 Num Gr3-113-128 TWISTED.indd 104 2014/07/02 2:03 PM



Bobo ya nomboro 901 u swika kha 1 000.

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



Ṅwalani nomboro dzi no khou ṱahela.

Phambano vhukati ha nomboro dala na dza phephuḽu ndi if'hio kha rou nthihi?



Fhedzisani phetheni.

No kona u vhona phetheni?	I ṱalutshedzeni
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, _____	



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Tshivenda G3 B2 Num Gr3-113-128 TWISTED.indd 106 2014/07/02 2:03 PM

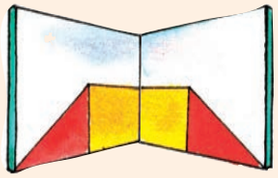
115

Deithi:

Zwiṅwe hafhu nga Simethiri (Ndinganahuvhili)



Tshivhonini.



Tambani na muṅwe nga inwi ni tshi shumisa sethe dza phaziḽi dza dzithaiḽi (zwipiḓa zwa 14) zwi no bva kha Tshigeriwa 10.

Mutambi muṅwe na muṅwe u na hafu ya zwipiḓa (zwipiḓa zwa 7) zwa phazwiḽi ya dzithaiḽi.

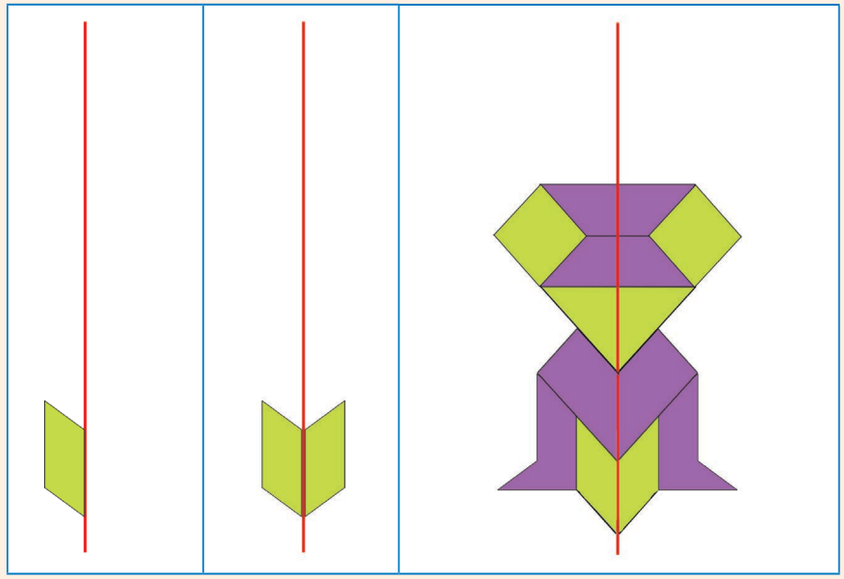
Zwipiḓa a zwo ngo tea u fana.

Talani mutaladzi vhukati ha tshipiḓa tsha bammbiri. U ḓo vha wone "mutalo wa murunzi".

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

Zwino mutambi wa vhuvhili u vhea murunzi wa itshi tshipiḓa kha luṅwe lurumbu lwa mutaladzi. Tshi tea u kwama mutaladzi kana tshiṅwe tsha zwipiḓa zwo no vhewaho.

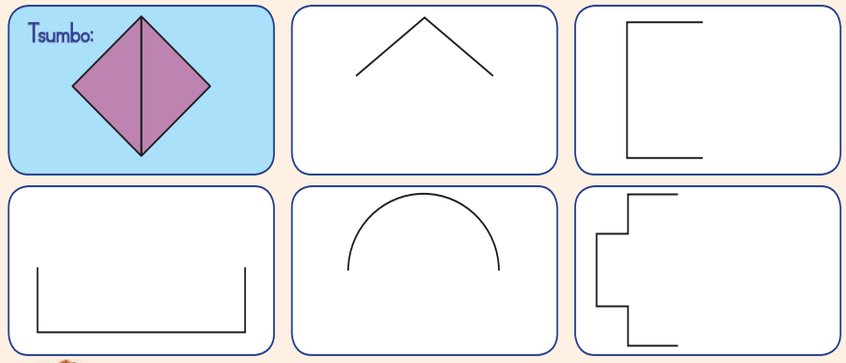
Isani phanḓa u swika zwipiḓa zwoṯhe zwo no fhelela.





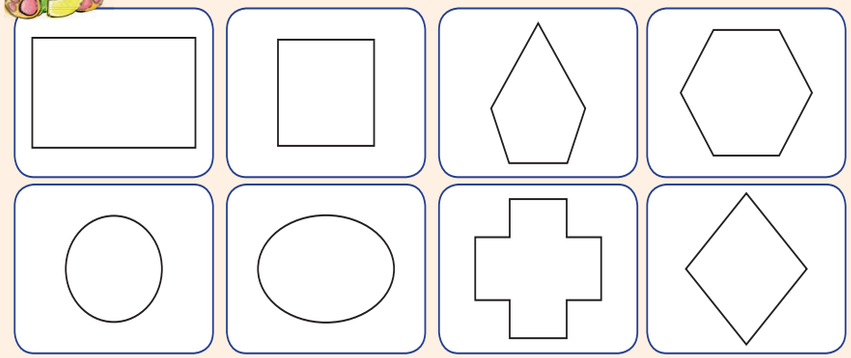
Olani luḽa luṅwe lurumbu lwa tshivhumbeo.

Sumbedzani mutaladzi wa semethiri.



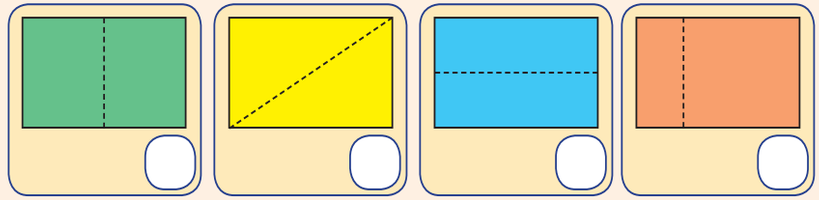


Talani mutaladzi wa simethiri wa zwi tevhelelaho:





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



Teacher:
Sign:
Date:

Deithi: .....

116

Phetheni dza nomboro: mbili u swika kha 900

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

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

Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni ifhio?

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

Rekanyani.

a. 872 + 2 + 2 + 2 = ____	b. 820 − 2 − 2 − 2 = ____	c. 844 + 2 + 2 = ____
d. 832 − 2 − 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 (✗) tsini na nomboro dza odo na tsini na nomboro dza (✓) ivini.

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

b. Fhindulani uri ivini kana odo.

Na ṱanganya nomboro mbili dza odo. Ni wana nomboro ya _____.

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

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

U ṱavha miri.

Hei ndi iṅwe nḓila ya u ṱavha miri ya 48 kha rou dzi no eḓana.

Ri nga ṅwala: 2 × 24 = 48 (rou dza 2 dza miri ya 24 = 48) kana 48 ÷ 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 tshiṅwe na tshiṅwe afho fhasi. Ṅwalani fhungombalo ḽa × na a ÷ ni tshi livhanya (metshisa).

a. _____ × _____ = _____ ÷ _____ =	
b. _____ × _____ = _____ ÷ _____ =	
c. _____ × _____ = _____ ÷ _____ =	
d. Wanani iṅwe nḓilavho ya u ṱavha miri ya 48 kha dzirou. _____ × _____ = _____ ÷ _____ =	e. Wanani iṅwe nḓilavho ya u ṱavha miri ya 48 kha dzirou.. _____ × _____ = _____ ÷ _____ =

Teacher:
Sign:
Date:

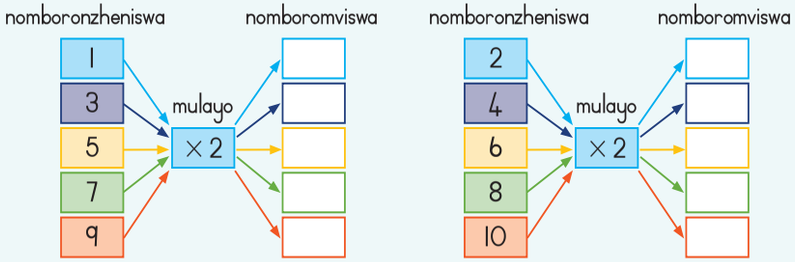
Deithi:

117

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



Fhedzisani nyolo ya muelo.





Fhedzisani thebuḽu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
2										



Rekanyani:

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

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



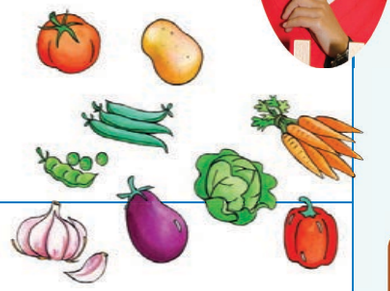
Tandululani mbalo dzi tevhelaho:



Ngade ya miroho i na rou dza 32 dza zwimela.

Rou iṅwe na iṅwe i na zwimela zwa 2.

Hu na zwimela zwingana ngadeni?



Ngade ya miroho i na rou dza 40 dza zwimela.

Rou iṅwe na iṅwe i na zwimela zwa tshivhalo tshi no lingana.

Arali hu na ṱhanganyelo ya zwimela zwa 80, hu na zwimela zwingana kha rou iṅwe na iṅwe?



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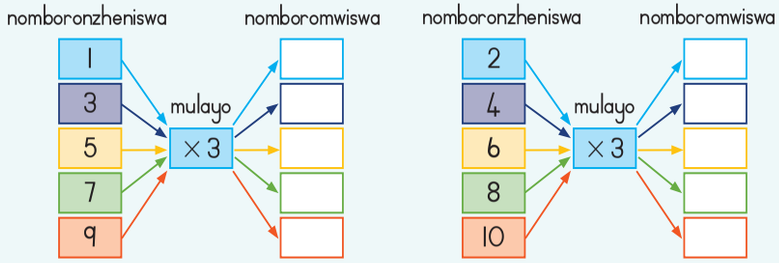
118

Deithi: .....

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



Fhedzisani nyolo ya muelo.





Fhedzisani thebulu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
3										



Rekanyani:

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

63 ÷ 3 = (60 + 3) ÷ 3 = (60 ÷ 3) + (3 ÷ 3) = 20 + 1 = 21	96 ÷ 3
65 ÷ 3 = (60 + 5) ÷ 3 = (60 ÷ 3) + (5 ÷ 3) = 20 + 1 ha sala 2 = 21 ha sala 2	98 ÷ 3



Tandululani mbalo dzi tevhelaho:



Musiiwa u na malegere a 30.

A fhira a Jacob kafumi.

Jacob u na malegere mangana?



Ngade ya miroho i na rou dza 29 dza zwimela.

Rou iṅwe na iṅwe i na zwimela zwa 3.

Hu na zwimela zwingana ngadeni?





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Deithi:

119

Phetheni dza nomboro: tharu u swika kha 1 000.

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

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



Nomboro dzo tangedzelwaho dzi ri sumbedza phetheni if'hio?

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



Rekanyani.

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

Bodo ya nomboro 901 u swika kha 900.

901		903	904		906	907		909	910
	912	913		915	916		918	919	
921	922		924	925		927	928		930
931		933	934		936	937		939	940
	942	943		945	946		948	949	
951	952		954	955		957	958		960
961		963	964		966	967		969	990
	972	973		975	976		978	979	
981	982		984	985		987	988		990
991		993	994		996	997		999	1000



Ṅwalani nomboro dzi no khou ṱahela.

Khaḽarani zwibuḽoko zwi re na nomboro i no khou ṱahela nga muvhala mudala.

Khaḽarani zwibuḽoko zwitshena nga muvhala mutswuku.Ni kona u vhona phetheni if'hio?

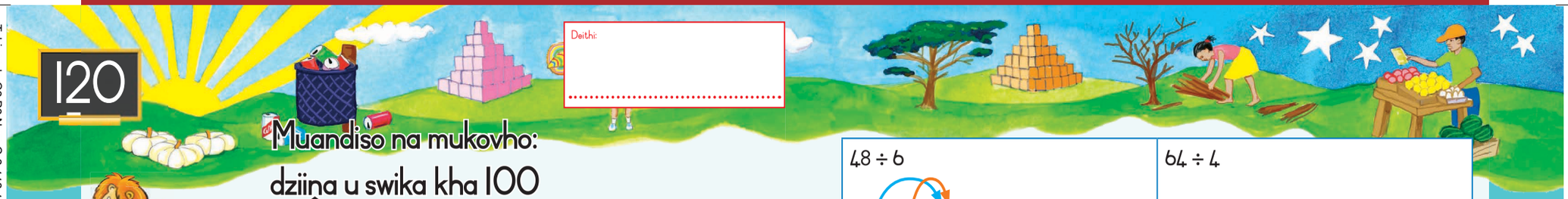


Fhedzisani phetheni.

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

Teacher:
Sign:
Date:

Tshivenda G3 B2 Num Gr3-113-128 TWISTED.indd 110 2014/07/02 2:04 PM



Deithi:

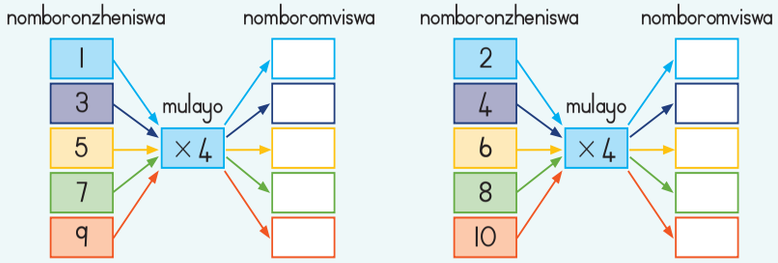
120

Muandiso na mukovho:

dziiṋa u swika kha 100

Fhedzisani nyolo ya muelo.





Fhedzisani thebuḽu i re afho fhasi:

×	1	2	3	4	5	6	7	8	9	10
4										

Rekanyani:

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

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



Tandululani mbalo dzi tevhelaho:



Mulaṱedzi u na maḽegere a 36.

U ḽa maḽegere a 4 ḓuvha ḽiṅwe na ḽiṅwe.

A nga ḽa maḽegere maḓuvha mangana?



Mulondo u na phakhethe dzi re na maswiri maṋa kha iṅwe na iṅwe.

U na maswiri a 88.

A nga kona u ḓadza phakhethe nngana?





121

Deithi:

Phetheni dza nomboro:
nn̂anna (dziin̂a) u swika kha 1 000

Kha ri vhale nga nn̂anna 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 if hio?

Dzo tangedzelwaho nga muvhala mudala:	U vhalela nga _____.
Ṅwalani phetheni:	
Dzo tangedzelwaho nga muvhala wa phephul̂u:	U vhalela nga _____.
Ṅwalani phetheni:	

Ṅwalani phetheni:

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

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

Ṅwalani nomboro dzi no khou t̂ahela.

Khal̂arani zwibul̂oko zwi re na nomboro i no khou t̂ahela nga muvhala mudala.

Khal̂arani zwibul̂oko zwitshena nga muvhala mutswuku. Ni kona u vhona phetheni if hio?

Fhedzisani phetheni.

a. T̂anganyani in̂a dza 4 kha 980.	984, 988, 992, 996
b. T̂anganyani in̂a dza 5 kha 971.	_____
c. T̂usani in̂a dza 4 kha 963.	_____
d. T̂usani in̂a dza 3 kha 927.	_____
e. T̂anganyani in̂a dza 2 kha 938.	_____

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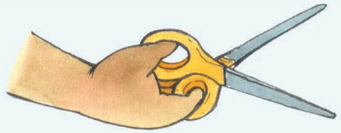
Deithi:

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Zwipiḓa zwi no lingana zwa yoṱhe

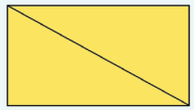
Hafu nthihi, nga nḓila dzo fhambananaho dza u i tshea.

Gerani rekithiengele dzi tshi bva kha bammbiri ḽa muvhala (kha Tshigeriwa tsha II).



Wanani dziṅwe nḓila dzo fhambananaho dza u vhumba hafu nthihi.







1. Petani rekhithiengele ya bammbiri nga vhukati ni tshi tevhedza vhulapfu. Gerani bammbiri nga vhukati henefho he na peta hone. Zwipiḓa izwi zwi a lingana. Tshiṅwe na tshiṅwe tshazwo tshi pfi ndi hafu nthihi ($\frac{1}{2}$) ya rekhithiengele ya kale na kale (ya u thomani).
2. Petani rekhithiengele ya bammbiri nga vhukati ni tshi tevhedza u rambalala. Gerani bammbiri nga vhukati henefho he na peta hone. Zwipiḓa izwi zwi a lingana. Tshiṅwe na tshiṅwe tshazwo tshi pfi ndi hafu nthihi ya bammbiri ḽa kale na kale (ḽa u thomani).
3. Hu na nḓila ifhio iṅwe ya u fhandula bammbiri ḽa bva zwipiḓa zwivhili zwi no lingana? Edzisani ni tshi shumisa tshigero na bammbiri, ni kone u ita mutalo wa zwitomathoma afho he na peta hone ni gere.

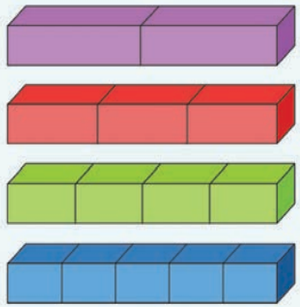
Zwipiḓa zwi no lingana zwa tshoṱhe hafhu.

Musi ri tshi khethekanya tshithu tsha bva zwipiḓa zwa 2 zwi linganaho, izwo zwipiḓa ri zwi vhidza dzihafu.

Musi ri tshi khathekanya tshithu tsha bva zwipiḓa zwa 3 zwi linganaho, izwo zwipiḓa ri zwi vhidza zwararu.

Musi ri tshi khathekanya tshithu tsha bva zwipiḓa zwa 4 zwi linganaho, izwo zwipiḓa ri zwi vhidza dzikoṱa kana zwaiṋa.

Musi ri tshi khethekanya tshithu tsha bva zwipiḓa zwa 5 zwi linganaho, izwo zwipiḓa ri zwi vhidza zwaṱhanu.



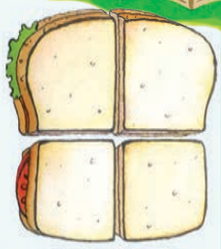
Sangwetshi dza tshiswiṱulo.

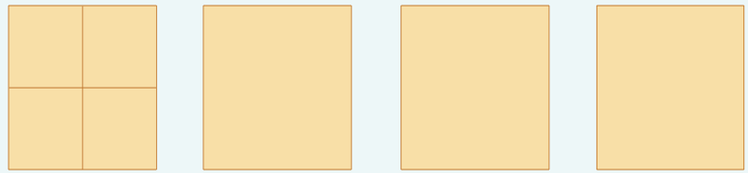
Thendo na khonani dzawe dza 3 vha a ita sendiwitshi nnzhi dza tshiswiṱulo.

Vha dzi tshea nga dzikoṱa na zwaiṋa kana dzikoṱa.

Hezwi zwi amba uri vho dzi tshea dza bva zwipiḓa zwa 4 zwi linganaho.

Iṅwe nḓila asiyi. Sumbedzani dziṅwe nḓila tharu dzine na nga zwi ita ngadzo.

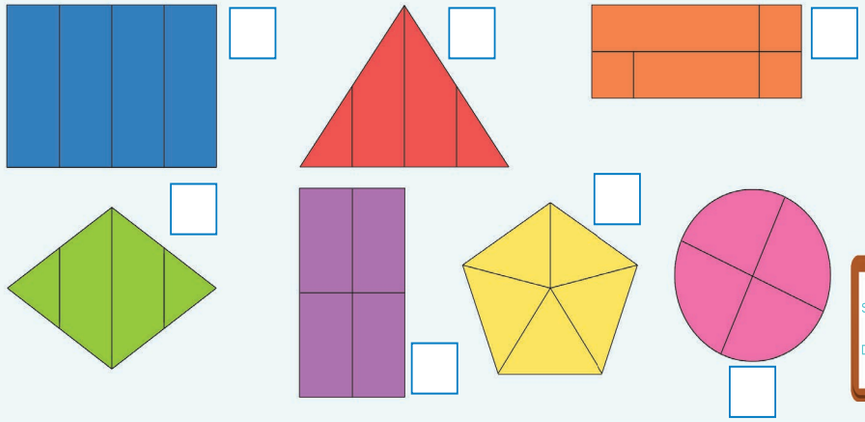




U kovha ha bva zwaiṋa.

Ṱolani! Vhambedzani! Lulamisani

Musi ri tshi gera tshithu tsha bva dzikoṱa ($\frac{1}{4}$s), ri tshi khethekanya tsha bva zwipiḓa zwa 4 zwi linganaho. Ndi tshifanyiso tshifhio tshi sumbedzaho dzikoṱa kana zwa iṋa? Ṅwalani ee kana hai tsini na nomboro.



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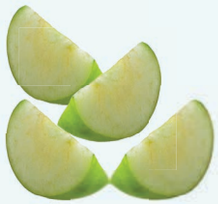
Deithi:

Mbalo dza furakhisheni



Rerani nga dzifurakhisheni ni na khonani dzaṋu.









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

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

U tea u vha e na maswiri mangana? _____

Mbudziso ndi ifhio? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi ḽi re khii ndi ḽifhio? _____

Olani tshifanyiso.



Ipfi ḽi re khii ndi ipfi ḽine ḽa ḓo nthusa kha u nanga mashumele a re one.

Phindulo ndi ifhio? _____

b. Mme anga vha fha nṋe na khonani dzanga dza fuminthihi kota ya apula muthu muthihi.

Vha tea u vha vhe na maapula mangana? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi ḽi re khii ndi ḽifhio? _____

Olani tshifanyiso.



Phindulo ndi ifhio? _____

c. Nga ḓuvha ḽa vhuṱambo ha tshikolo ho rengiswa khekhe dze dza vha dzo tshewa nthihi ya bva zwipiḓa zwiraru.

Vha rengisela vhathu vha 24 zwiḽai zwa khekhe.

Vho rengisa khekhe nngana? _____

Nomboro kana furakhisheni ndi dzifhio kha mbalo? _____

Ipfi ḽi re khii ndi ḽifhio? _____

Olani tshifanyiso.



Phindulo ndi ifhio? _____

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Deithi:

Zwithu zwa 3-D

Lavhelesani zwifanyiso.

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



Wanani zwifanyiso zwivhili zwa tshiṅwe na tshiṅwe ni zwi nambatedze.

Talelani phindulo i re yone.

a. Ṱamaṱisi ḽi na tshivhumbeo tsha bola-/bogisi-/siḽinda.

b. Ngilasi ya maḓi i na tshivhumbeo tsha bola-/bogisi-/siḽinda.

c. Bugu i na tshivhumbeo tsha bola-/bogisi-/siḽinda.

Tswititi na ngovhe (kuta).

Zwiṅwe zwithu zwa soḽidi zwi na vhurumbuṇṱha ha mabaphathi (fuḽethe).
Zwiṅwe zwi na vhurumbuṇṱha ha ngovhe (ho kutaho).

Siḽinda i na masia mavhili a bande na ḽithihi ḽo kutaho.	Khounu ina sia ḽithihi ḽa bande na sia ḽithihi ḽo kutaho.	Tshipulumbu tshi na ngovhe hoṱhe (tsho kuta hoṱhe).

U kunguluwa.

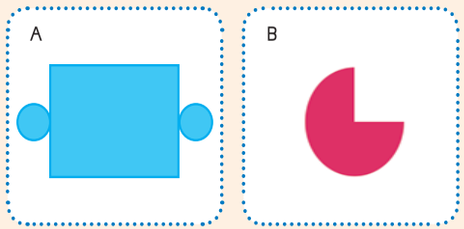
Elekanyani uri siḽinda, khounu, kana tshipulumbu zwi nga kunguluwa nga ndiḽaḓe.

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 oṱhe?	

Nete ndi mini?

Tshivhumbeo tsha baphathi (fuḽethe) tshine tsha petea tsha ita tshithu tsha soḽidi tshi pfi ndi nete.



Ṅwalani ḽeḓere ḽa nete ḽine ḽa petea ḽa vhumba khounu. _____

Ṅwalani ḽeḓere ḽa nete ḽine ḽa petea ḽa vhumba siḽinda. _____

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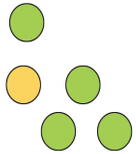
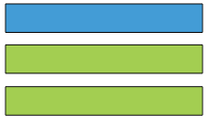
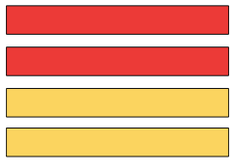
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Deithi:

Furakhisheni hafhu

Bulani dzina ḽa furakhisheni.

Nwalani furakhisheni ya zwifanyiso zwi re afho fhasi.

	
a. Zwitswuku ndi furakhisheni ifhio? _____	b. Zwidala ndi furakhisheni ifhio? _____
	
c. Zwa lutombo ndi furakhisheni ifhio? _____	d. Zwa ṱaḓa ndi furakhisheni ifhio? _____

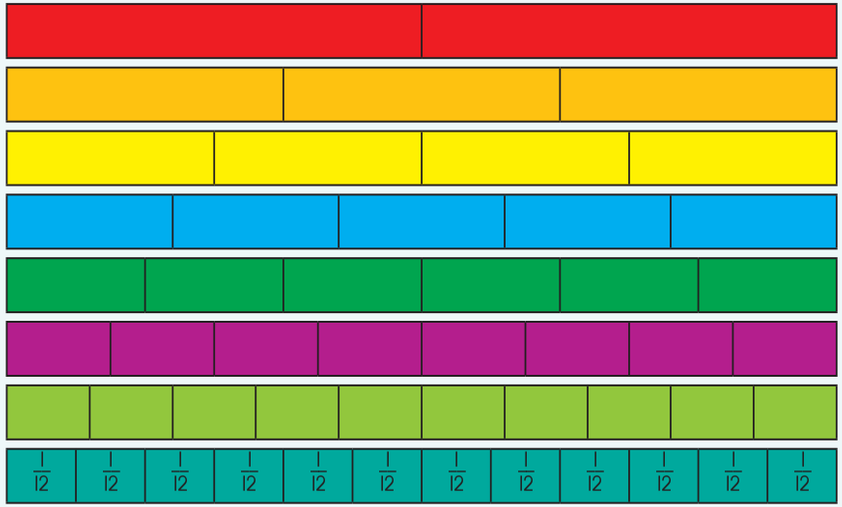
Fhindulani mbudziso.

a. Sizwe u na zwipiḓa zwiṋa zwa tshokoḽeithi. U fha khonani yawe tshithihi.
Ho sala furakhisheni ifhio ya tshokoḽeithi? _____

b. Yasmin u na maswiri mavhili. O kovhekana ḽithihi na Ann.
Ho sala furakhisheni ifhio? _____

c. Maria u renga mabaphathi a 5 a tshokoḽeithi. U ḓivhetshela ḽa 1, a fha Mohammed a 2, na khaladzi awe a mu fha a 2. Maria u ḓivhetshela furakhisheni ifhio? _____

Luvhondo lwa furakhisheni.



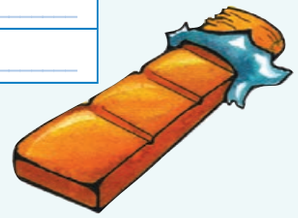
Rou iṅwe na iṅwe i khethekanywa ya bva zwipiḓa zwi no lingana. Rou ya nga fhasi i khethekanywa ya bva zwa fumimbili $\left(\frac{1}{12}\right)$.
Ḽebuḽani dziḽa dziṅwe rou nga furakhisheni dzi re dzone.

Shumisani ruḽa kana lumemetswititi lwa bammbiri kha u wana uri ndi furakhisheni dzifhio dzi no lingana, khathihi na u ni thusa u fhindula hedzi mbudziso.

Kha luvhondo lwa furakhisheni, wanani nḓila dzo fhambananaho dza u vhumba:

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

Tolani! Vhambedzani! Lulamisani



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Deithi:

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U vhea nga zwigwada na u kovhana hafhu

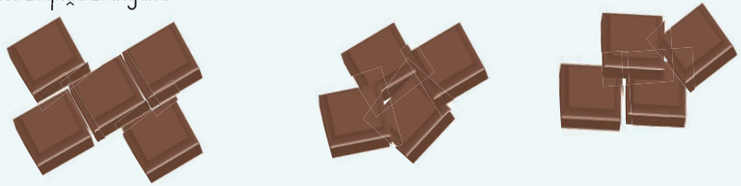
Mirekanyotshihaḓu.

Ṱoḓani vhushaka.

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

Kovhekanana zwe zwa sala.

Ntakadzeni na Livhu vha khou ṱoḓa u kovhekana zwipiḓa zwa 13 zwa tshokoleithi. Muṅwe na muṅwe u wana zwipiḓa zwingana?



Vha nga kona fhedzi u kovhekana kwekwea zwo fhelelaho zwa 12, muṅwe na muṅwe u wana zwa rathi. Tshipiḓa tsho salaho vha tshi paḓula nga vhukati, zwino muṅwe na muṅwe u wana zwipiḓa zwa $6\frac{1}{2}$.



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



Muṅwe na muṅwe u wana zwiṱiripi zwa _____

b. Kovhelani vhana vha 4 zwiṱiripi zwa 37.

Muṅwe na muṅwe u wana zwiṱiripi zwa _____

c. Kovhelani vhana vha 5 zwiṱiripi zwa 48.

Muṅwe na muṅwe u wana zwiṱiripi zwa _____

d. Kovhelani vhana vha 10 zwiṱiripi zwa 73.

Muṅwe na muṅwe u wana zwiṱiripi zwa _____

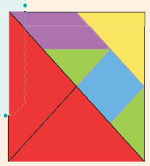
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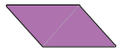
Deithi:

Furakhisheni dza Thangeramu

Thangeramu ndi phaziḽi ya kale ya Tshitshaina yo itwaho nga zwivhumbeo zwa 7 zwa mabaphathi, zwine zwa vhidzwa upfi ndi dzithenge, zwoṱhe zwi vhewa fhethu huthihi uri zwi vhumbe zwivhumbeo zwo fhambananaho.



Furakhisheni kha thangeramu.

	Lavhelesani phaziḽi ya thangeramu. Iṅwe na iṅwe ya thiraiengele mbili khulwane i ita furakhisheni if hio ya tshikwea tshoṱhe? (Dza pinki tshifanyisoni itshi.)	_____
	Arali na nga peta nthihi ya thiraiengele khulwane ya bva zwipiḓa zwivhili zwi no lingana, tshipiḓa tshiṅwe na tshiṅwe tshi lingana na thiraiengele ya saizi ya vhukati (Ya ṱaḓa tshifanyisoni). Thiraiengele ya vhukati ndi furakhisheni if hio ya tshikwea tshoṱhe?	_____
	Arali na peta thiraiengele ya vhukati ya bva zwipiḓa zwivhili zwi no lingana, tshipiḓa tshiṅwe na tshiṅwe tshi lingana na thiraiengele mbili ṱhukhu. (Dza muvhala mudala tshifanyisoni). Thiraiengele iṅwe na iṅwe ṱhukhu ndi furakhisheni if hio ya tshikwea tshoṱhe?	_____
	Ni nga kwakwanyisa thiraiengele mbili ṱhukhu uri ni vhumbe tshikwea tshiṱuku.Tshikwea tshiṱuku ndi furakhisheni if hio ya tshikwea tshoṱhe (tshidala tshifanyisoni)?	_____
	Ni nga kwakwanyisa thiraiengele mbili ṱhukhu uri ni vhumbe pharalelogireme. Pharalelogireme ndi furakhisheni if hio ya tshikwea tshoṱhe?	_____

U shumisa thangeramu.

Gerani thangeramu kha Tshigeriwa 12 ni ṅwale furakhisheni ya tshikwea tshoṱhe ni ḽebuḽe tshipiḓa tshiṅwe na tshiṅwe. (Hezwi ndi zwipiḓa zwa kale na kale/zwa u thomani zwa zwivhumbeo zwa Thangeramu). Ṅwalani dzina ḽaṋu nga murahu ha tshipiḓa tshiṅwe na tshiṅwe, u itela uri ni kone u wana zwipiḓa zwaṋu murahu musi no no fhedza u tamba.

Mutambo wa furakhisheni wa mikovhe i no lingana.

Tambani na vhatambi vha 4-8 ni tshi shumisa zwipiḓa zwaṋu zwa thengeramu

1. Vhatambi vha sielisana kha u vha vharengisi.
2. Murengisi ndi ene ane a ta uri muṅwe na muṅwe wa vhatambi u dzhenisa furakhisheni if hio ya thangeramu yoṱhe kha tshikwama (khithi).
3. Mutambi muṅwe na muṅwe u a humbulela uri khoini i ḓo wa nga ṱhoho naa kana nga mutshila, murengisi a kona u thosa khoini.
4. Murengisi u kovha tshikwama nga nḓila i no lingana kha avho vhe vha humbulela zwone. (Avho vhathu vha nga tea u tshintshisa tshipiḓa tshithihi kana zwinzhi nga tshiṅwe kana zwiṅwe zwi re na mutengo u no fana/muthihi.)
5. Zwo salaho zwe zwa si kone u kovhiwa zwi sala tshikwamani u itela raundu i tevhelaho.
6. Vhatambi vhoṱhe vha a ṱola uri u kovhekana hu khou itwa nga nḓila yone naa.
7. Arali mutambi a nga vhona vhukhakhi, murengisi u a laṱisiwa nga u badeliswa $\frac{1}{8}$ ya tshikwea tshoṱhe a tshi badela mutambi we a vha ene wa u thoma u vhona vhukhakhi.
8. Mutambi ane a si vhe na zwipiḓa a nga ṱusa tshithihi kha zwo salaho tshikwamani.
9. Mutambo u a ya phanḓa u swika mutambi muṅwe na muṅwe o vha murengisi.



Muṅwe na muṅwe u tea u dzhenisa kota nthihi ya thangeramu ngomu tshikwamani.





Ndi ḓo dzhenisa thiraiengele nthihi khulwane.

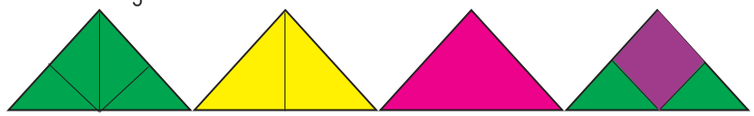






Zwivhili zwamalo zwi lingana na tshithihi tshaiṋa. Ndi nga kona u dzhenisa tshikwea na pharalelogireme.





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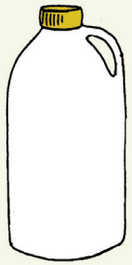
128a

Deithi:

U ela khaphasithi (ṋdalo)



Shumisani tshifaredzi tsha boḓelo ḽa puḽasitiki na khaphu.



khaphu nthihi (250 ml)



Ni vhona u nga tshifaredzi itshi tshi nga ḓala nga khaphu nngana?

A no ngo tea u bula dziḽitha kana miḽiḽitha. Shumisani fhedzi maipfi a no ri 'khaphu' na 'boḓelo'.

tshifaredzi tsha ḽitha ya 1

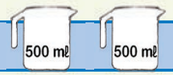


Itani ḽitha.

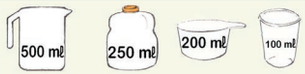
Wanani nḓila ya u ita ḽitha ni tshi shumisa zwiluḓi zwa mielo yo fhambananaho.

Nwalani fhungombalo ḽa nḓila iṅwe na iṅwe.

Fhungombalo: 500 ml + 500 ml = 1 000 ml (1 ℓ)







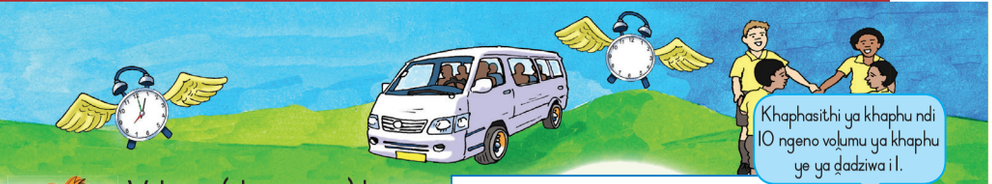
Fhungombalo _____ = 1 000 ml (1 ℓ)

Fhungombalo _____ = 1 000 ml (1 ℓ)

Fhungombalo _____ = 1 000 ml (1 ℓ)

Fhungombalo _____ = 1 000 ml (1 ℓ)

Musi ri tshi ṅwala tswayo dza methiriki, ri sia tshikhala tshiṱuku vhukati ha didzhithi ya u fhedzisela na luswayo. Sa tsumbo ri ṅwala 3 ℓ hu si 3ℓ; 299 g hu si 299g; 15 km hu si 15km.



Khaphasithi ya khaphu ndi 10 ngeno voḽumu ya khaphu ye ya ḓadziwa i l.

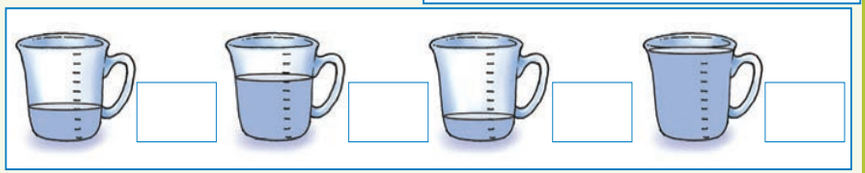
Voḽumu (vhungomu) ha khaphu iṅwe na iṅwe ye ya ḓadziwa ndi ifhio?





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







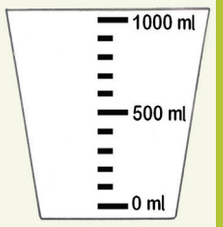
Ri ela muelo wa zwiluḓi zwiṱuku nga dzimiḽiḽitha (ml).

Khaphu ya muelo wa mishonga i ita 10 ml, i no lingana na zwilebula zwiṱuku zwivhili.

Ri ela mielo minzhi ya zwiluḓi nga dziḽitha (ℓ).

Hu na miḽiḽitha dza zwigisi kha ḽitha nthihi.

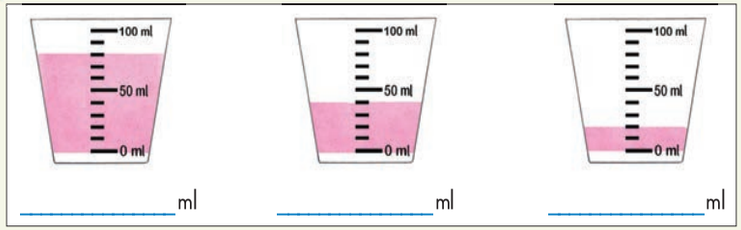






Hu na zwiluḓi zwingafhani?

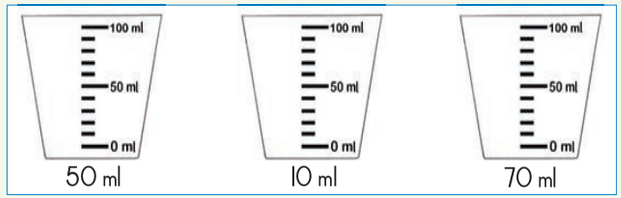
Hu na ml nngana dza zwiluḓi dzhegeni iṅwe na iṅwe?





Hu na zwiluḓi zwingafhani?

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



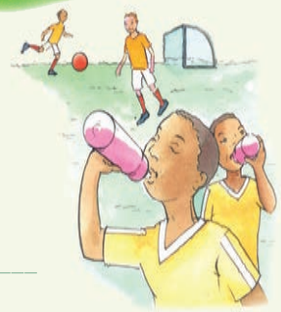




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Deithi:

Pimani ni shele



Mutamboni.

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

a. Ndi vha tambi vhangana vhane vha nga kovhekana?
Ḽitha ya 1 _____ Ḽitha ya 4 _____ Ḽitha ya 2 $\frac{1}{2}$ _____

b. Vha ṱoḓa dzhusi nngafhani ya?
Vhatambi vha 8 _____ Vhatambi vha 9 _____ Vhatambi vha 12 _____

Ḽitha na mililitha (ml)

Ḽitha ya 1 = 1 000 ml $\frac{1}{2}$ ya ḽitha = _____ ml $\frac{1}{4}$ ya ḽitha = _____ ml

125 ml = _____ ya ḽitha 50 ml = _____ ya ḽitha

Itani hafu ya ḽitha.

Itani thiki (✓) kha zwivhalo zwa 3 zwine zwa ita hafu ya ḽitha.

120 ml	140 ml	160 ml	28 ml	240 ml
				

Mafhi a ni fha mutakalo!

Kovhelani ḽitha dza 4:

a. Vhana vha 8 Ṅwana muṅwe na muṅwe u wana ḽitha dza _____

b. Vhana vha 16 Ṅwana muṅwe na muṅwe u wana ḽitha dza _____

c. Vhana vha 12 Ṅwana muṅwe na muṅwe u wana ḽitha dza _____



Bara ya Dzhusi ya Vhonani.

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

Shumani ni wane uri ndi dzhusi na maḓi 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 maḓi	2				

Itani ḽitha.

 50 ml	 100 ml	 200 ml	 250 ml	 500 ml

Ndi zwingana zwa tshifaredzi tshiṅwe na tshiṅwe zwine na zwi ṱoḓa kha u ita ḽitha?

a. _____ × 100 ml b. _____ × 200 ml c. _____ × 250 ml

e. _____ × 500 ml f. _____ × 50 ml

Phathi yo no fhela.





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

Ho sala dzhusi nngafhani ya ṱaḓa? _____

Ho sala dzhusi nngafhani ya phephuḽu? _____

Thandi u ṱanganyisa idzi dzhusi mbili.

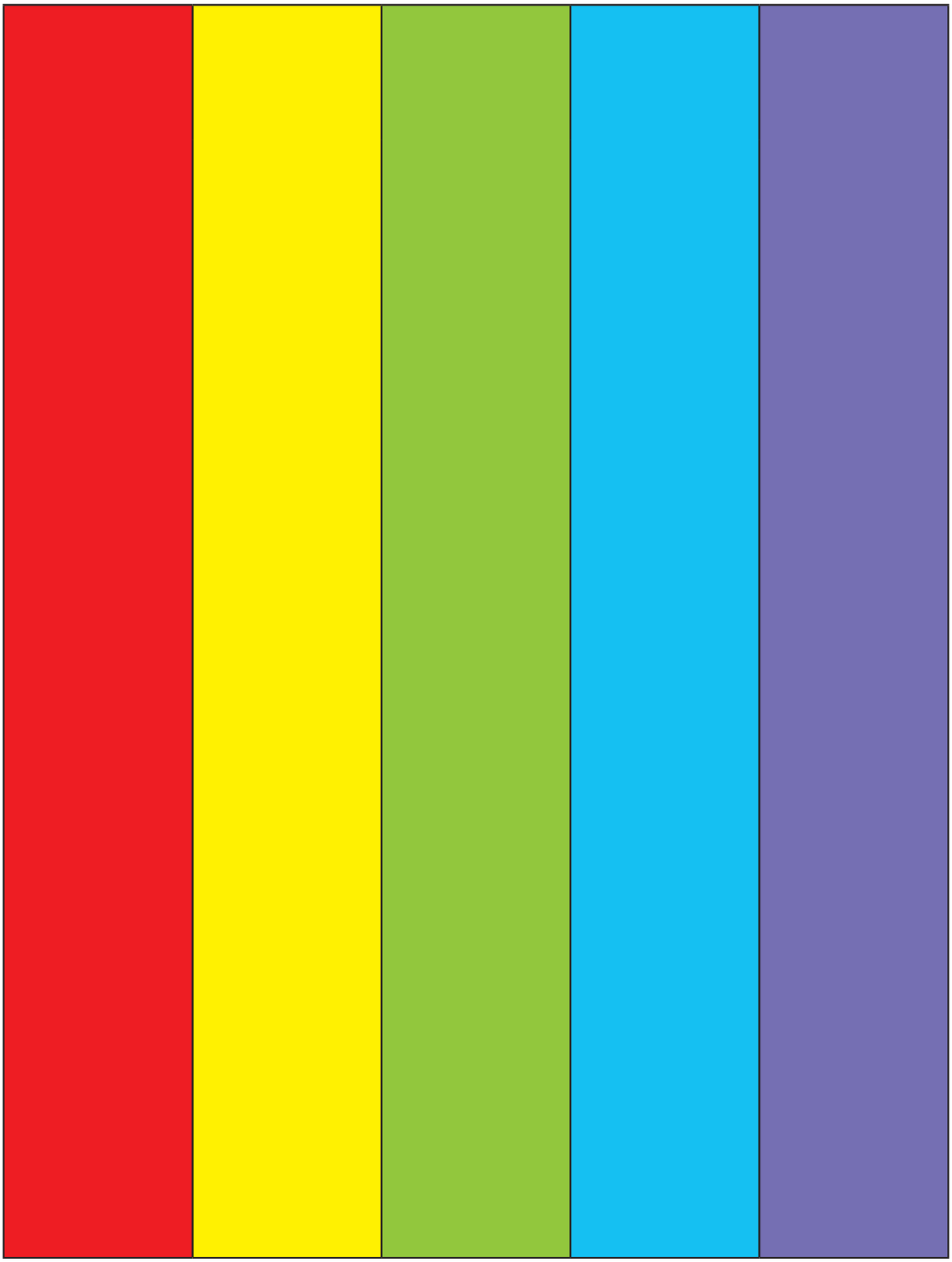
A nga ḓadza dzhege nngana? _____

Sedzulusani!
Vhambedzani!
Lulamisani!

Teacher:
Sign:
Date:

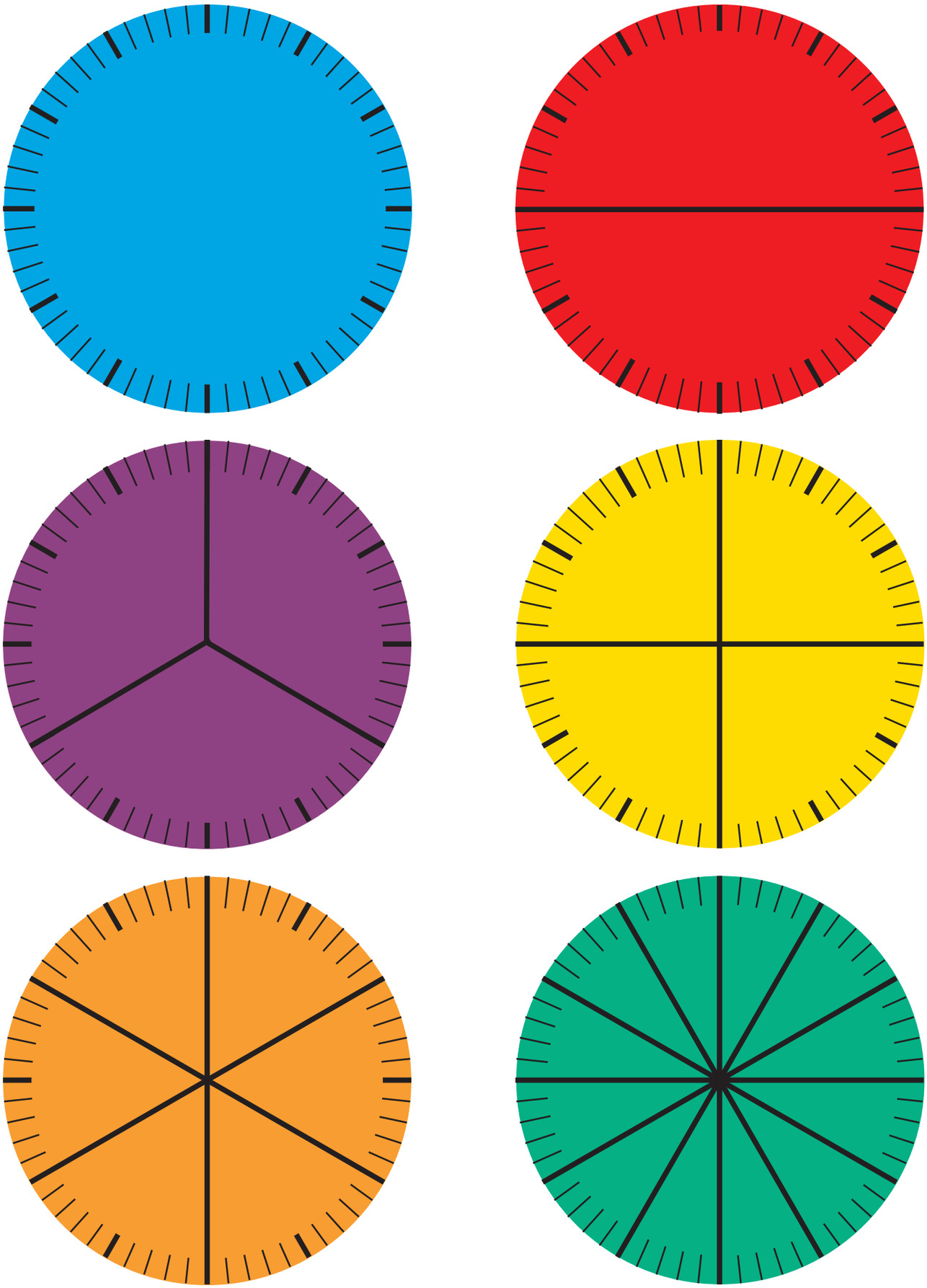
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Tshigeriwa 5

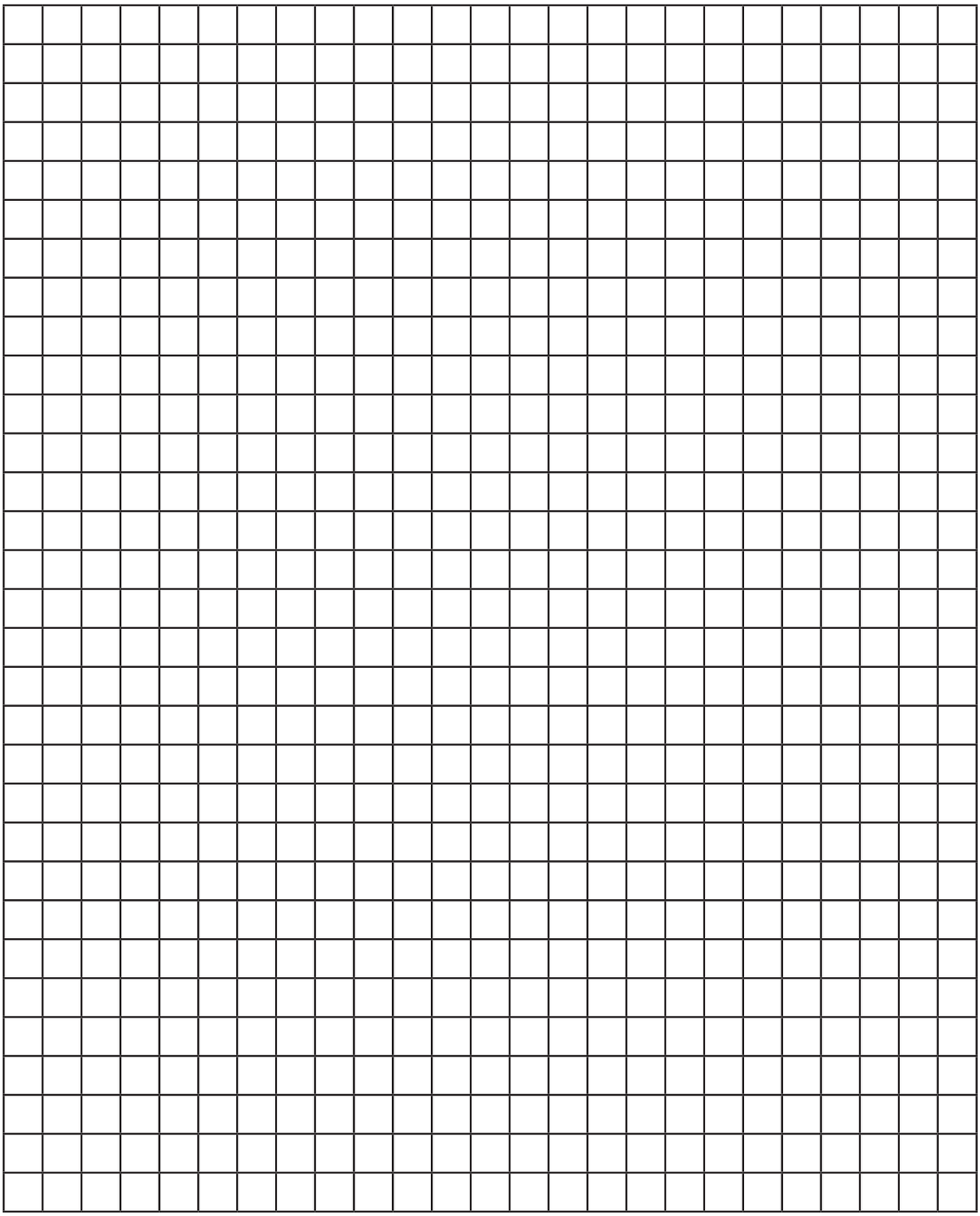


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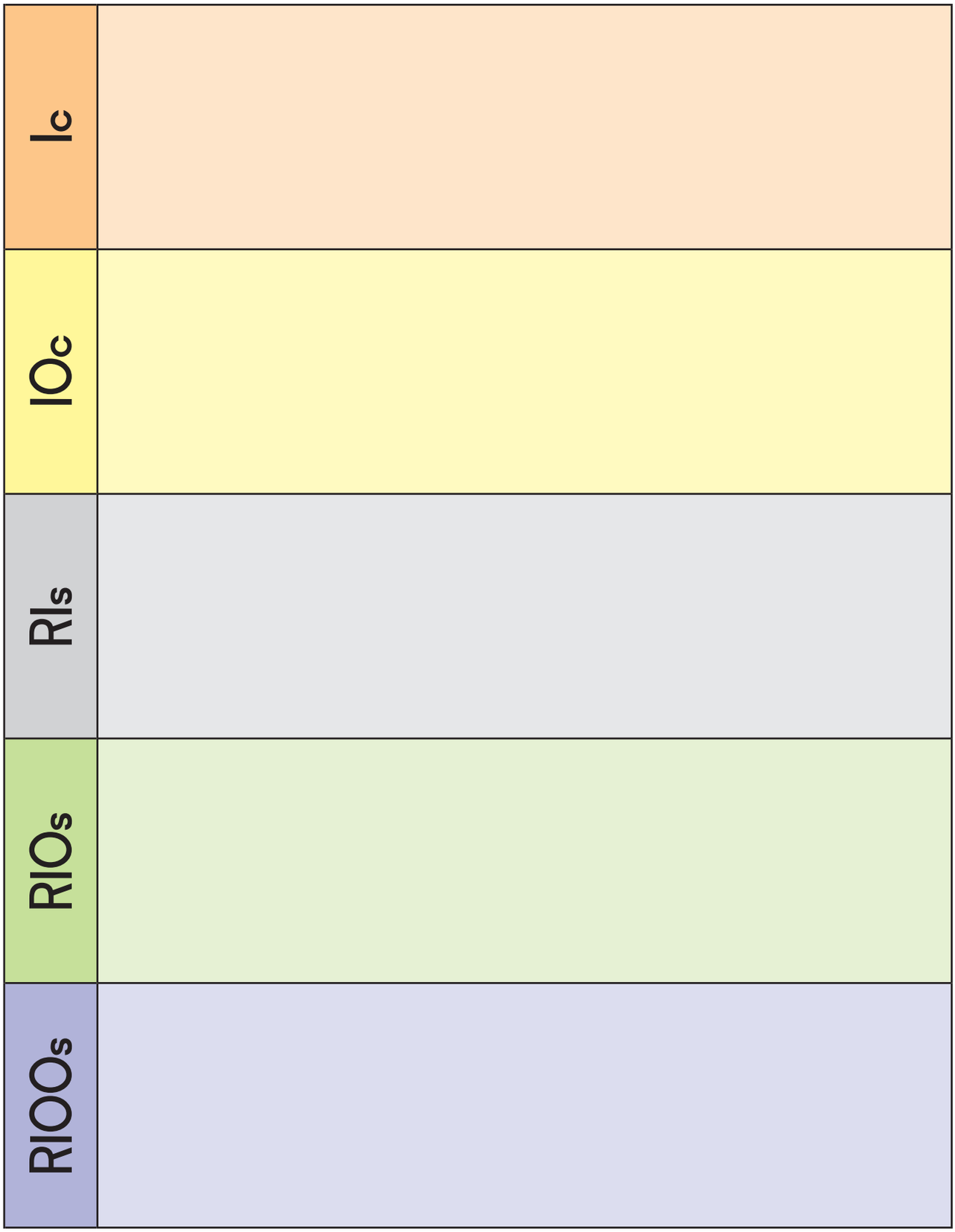
Tshigeriwa 6



Tshigeriwa 7



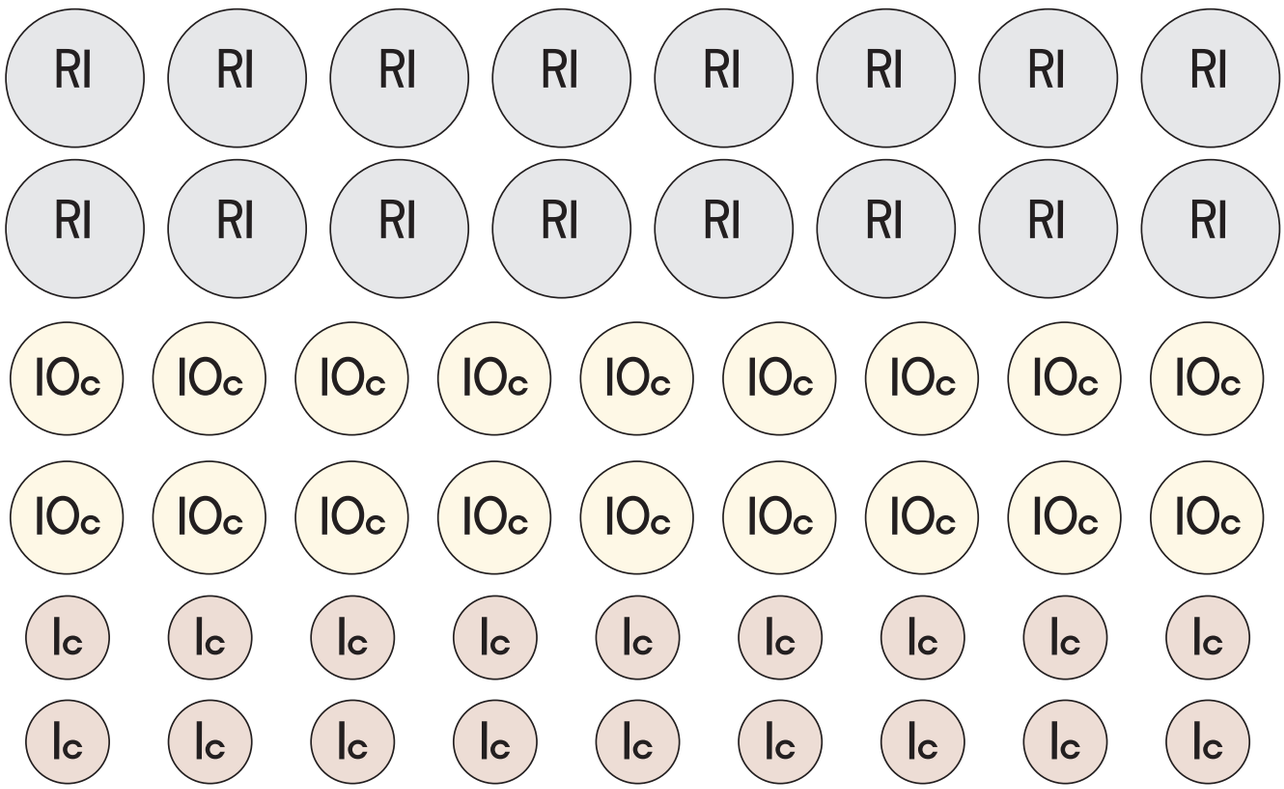
Tshigeriwa 8



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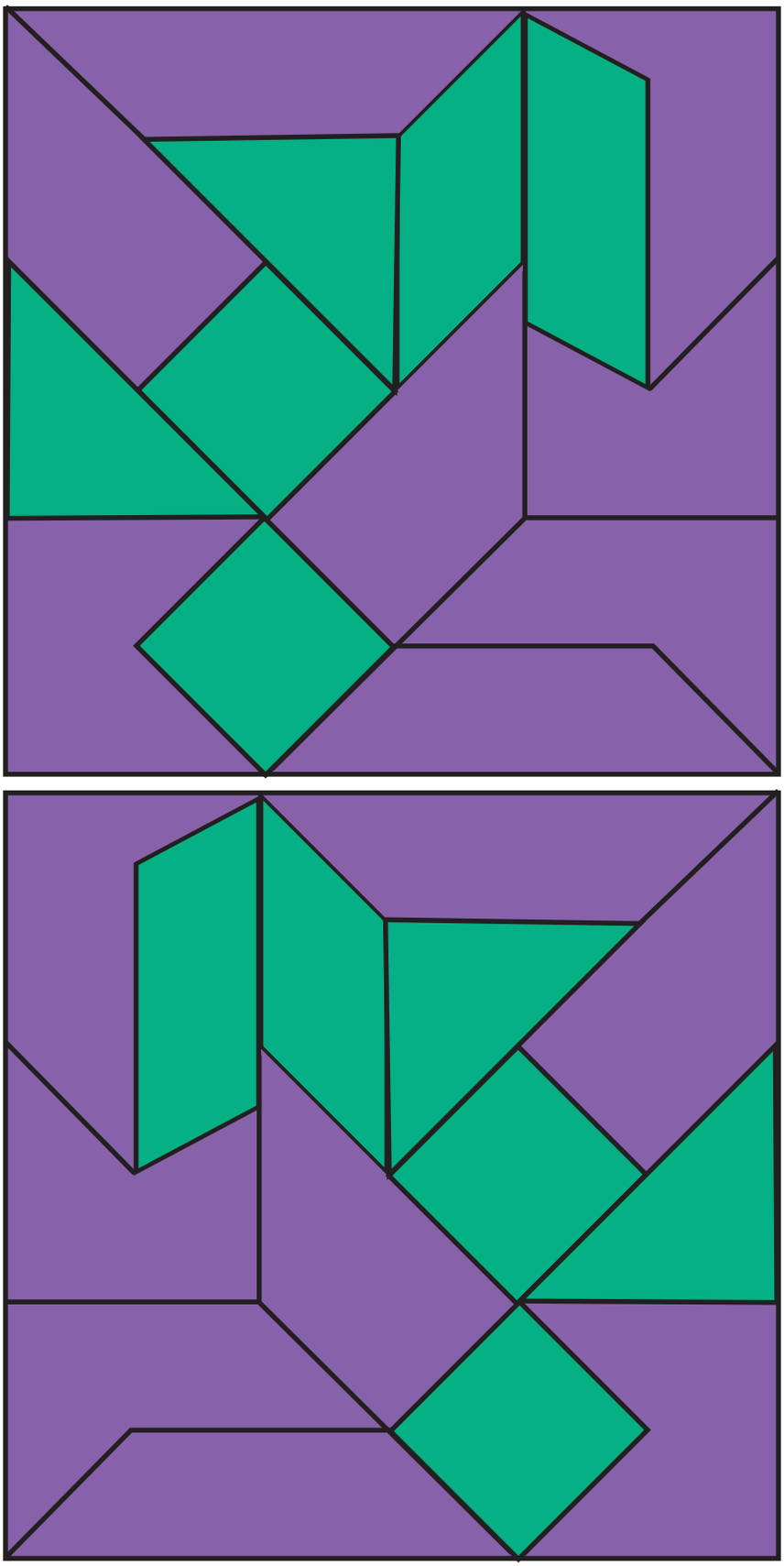
Tshigeriwa 9

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

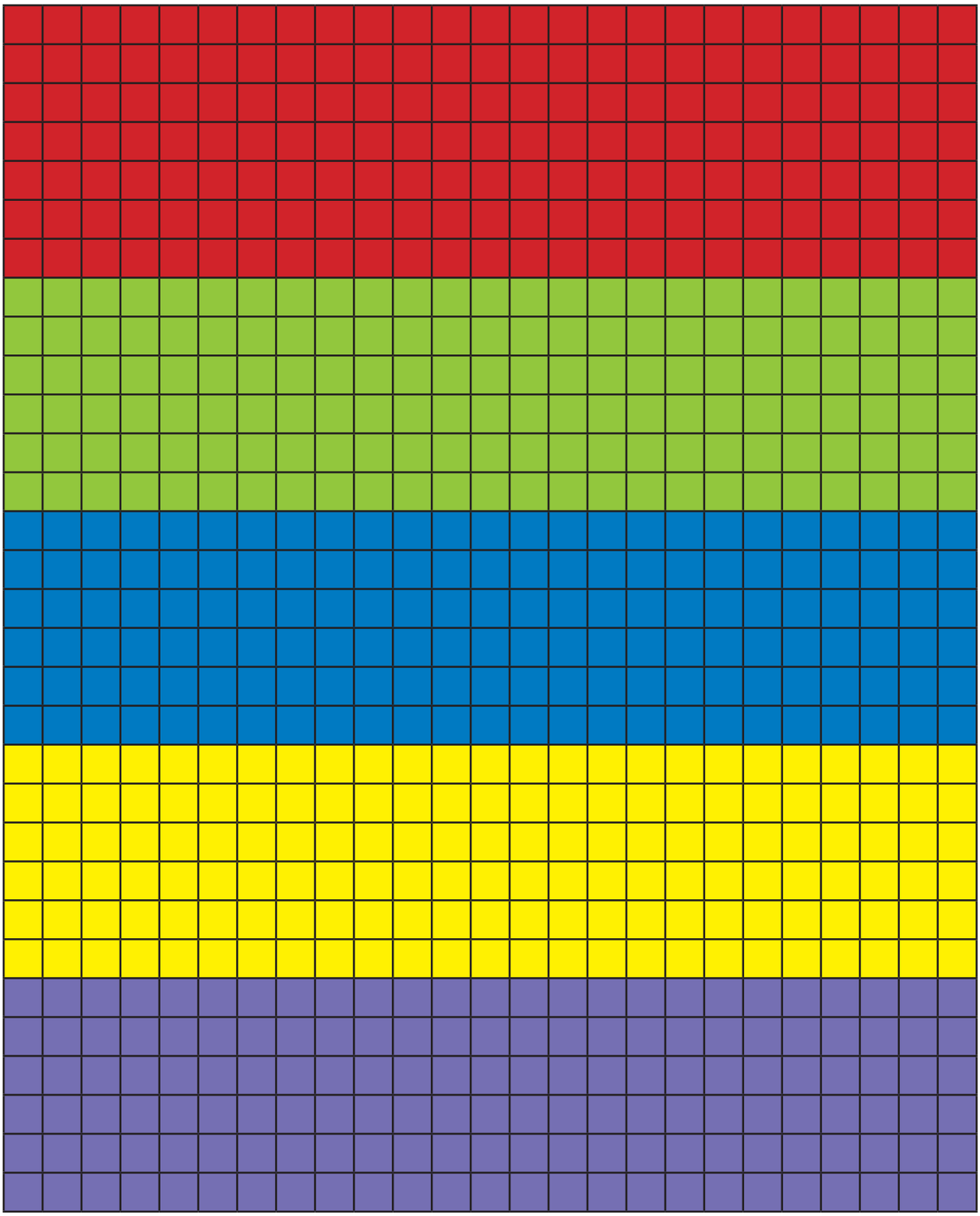


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Tshigeriwa 10

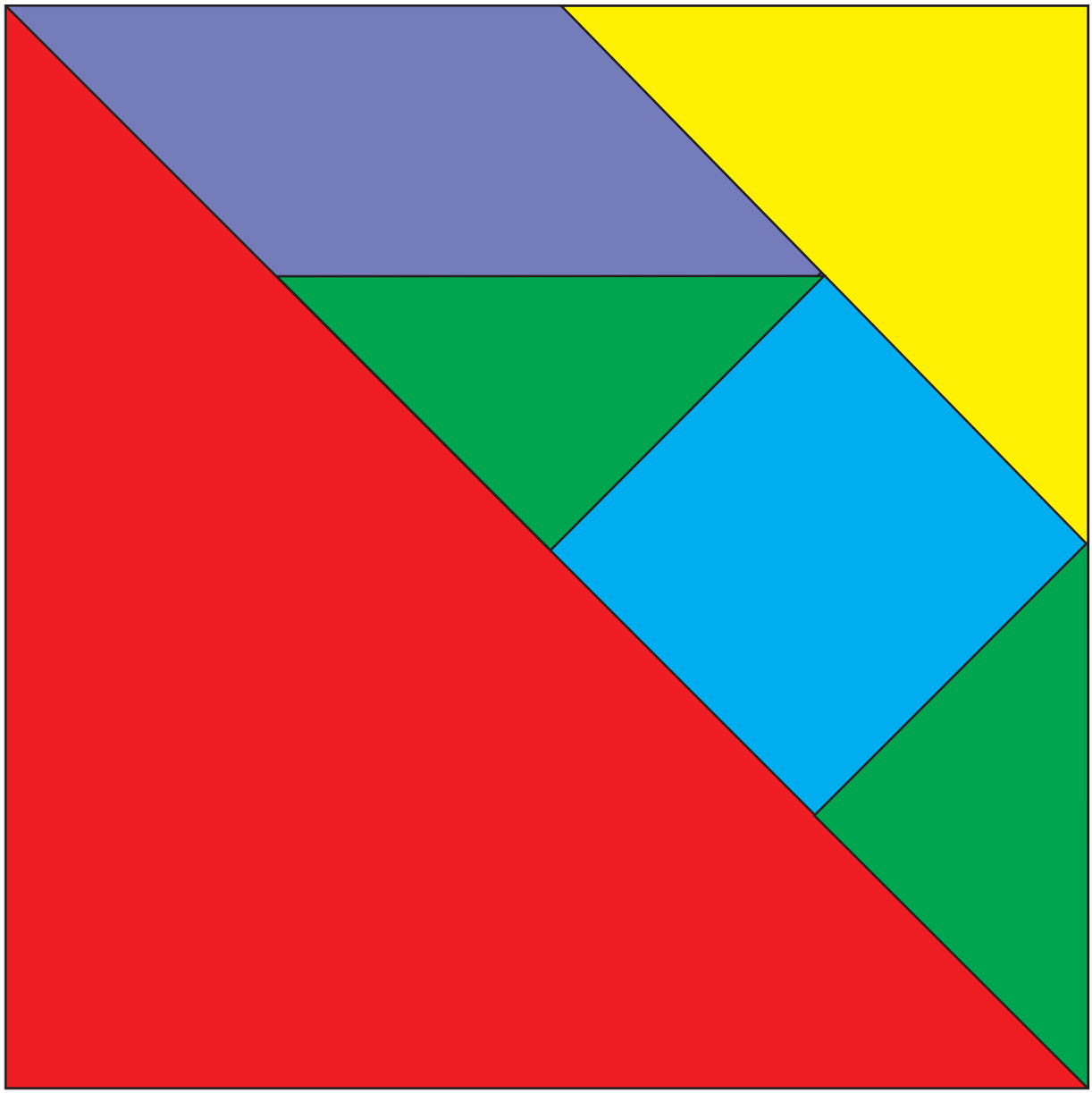


Cut-out II



GEN NUM G3 B2 CUT OUTS.indd 2 2014/06/20 8:16 AM

Cut-out 12



GEN NUM G3 B2 CUT OUTS.indd 4 2014/06/20 8:16 AM