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 ndilaḓe. 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 ndila 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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ḒIVHAMBALO NGA TSHIVENḒA

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Themo I & 2

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Vho Angie Motshekga
Minista wa Muhasho wa Pfunzo ya Muteo



Vho Enver Surty
Muthusaminista wa Pfunzo ya Muteo

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

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

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

Ri na fulufhelo ḽauri bugu idzi dzi ḓo thusa vhadededzi (vhagudisi) mushumoni wavho wa u funza wa ḓuvha ḽiṅwe na ḽiṅwe khathihi na u vha na vhuṱanzi uri vha khunyeledze kharikhuḽamu yoṱhe. Ro ita nga vhuronwane uri ri sumbedze nḓila vhadededzi kha nyito nge ra shumisa aikhoni dzi no sumbedza uri mugudi u tea u ita zwifhio.

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

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

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Mbalo

NGA TSHIVENḒA

Heyi bugu ndi ya:

_____



TSHIVENḒA

Bugu ya 1

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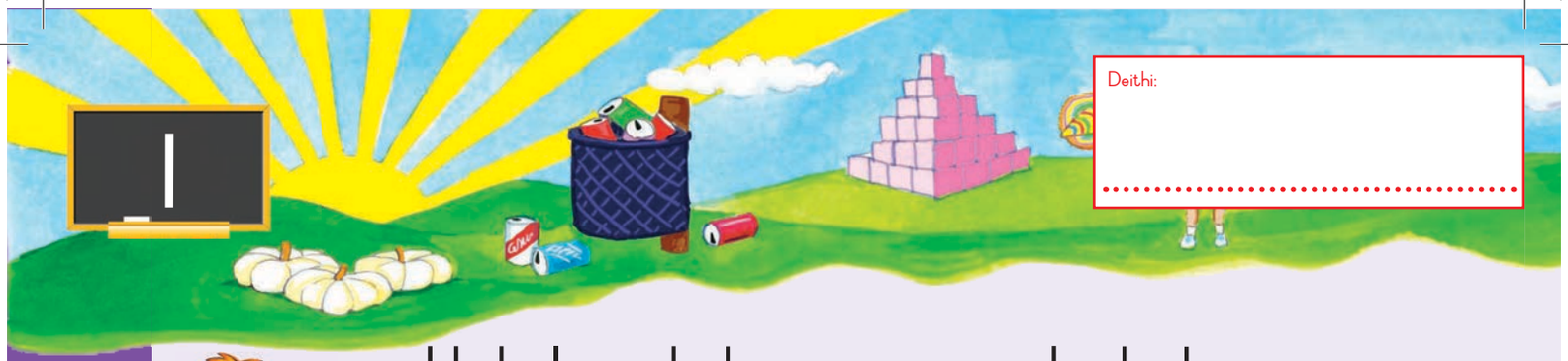


Deithi:

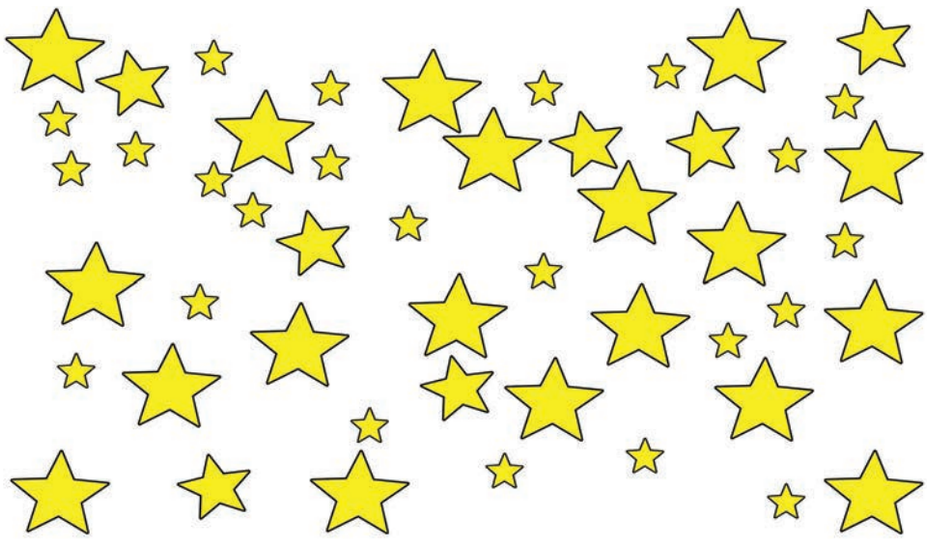
.....



U vhala, u vhekanya na u sumbedza!

Hu na n̂aledzi nngana?

Vhambedzani phindulo



Anganyelani uri hu na n̂aledzi nngana. _____

Zwino dzi vhaleni. _____



Wanani muwini!

Ndi nnyi o anganyelaho u fhira vhoṱhe?

Dzhenisani madzina aṉu na phindulo kha thebuḽu iyi.

Dzina				
Anganyelani				
Nomboro dzo vhalwaho				
Phambano vhukati ha zwe na anganyela na zwe na vhala				

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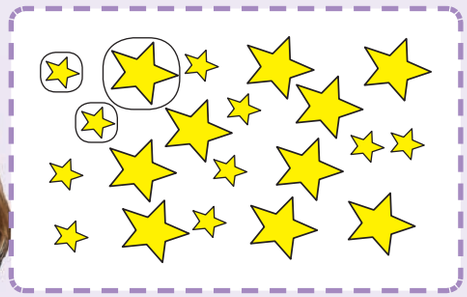
Ṋḍila dza u vhala. Ri thuseni u i ṅwala



Ndo vhalela nga thihi.



1, 2, 3, _____

_____



2, _____

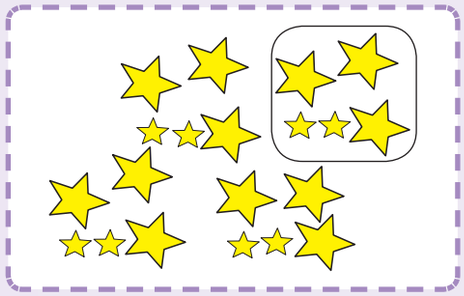
_____



Ndo vhala nga 2.



Ndo vhalela nga ṱhanu



5, _____

_____



_____

_____



Ndo vhalela nga mahumi



Ṅwalani mafhungombalo

Musi ni tshi ṱanganya nomboro dziṅwe na dziṅwe mbili a zwi na mushumo uri mutevhe wadzo ndi ufhio.

Ṅwalani mafhungo mavhili ni tshi ṋea ṱhanganyelo ya ṋaledzi. A ṅwaleni nga ṋḍila mbili.

Khulwane Ṱhukhu Ngaurali *kana* ngaurali

 + = ____

 +  = ____

nahone sa fhungombalo.

_____ + _____ = _____ *kana* _____ + _____ = _____

Teacher:

Sign:

Date:

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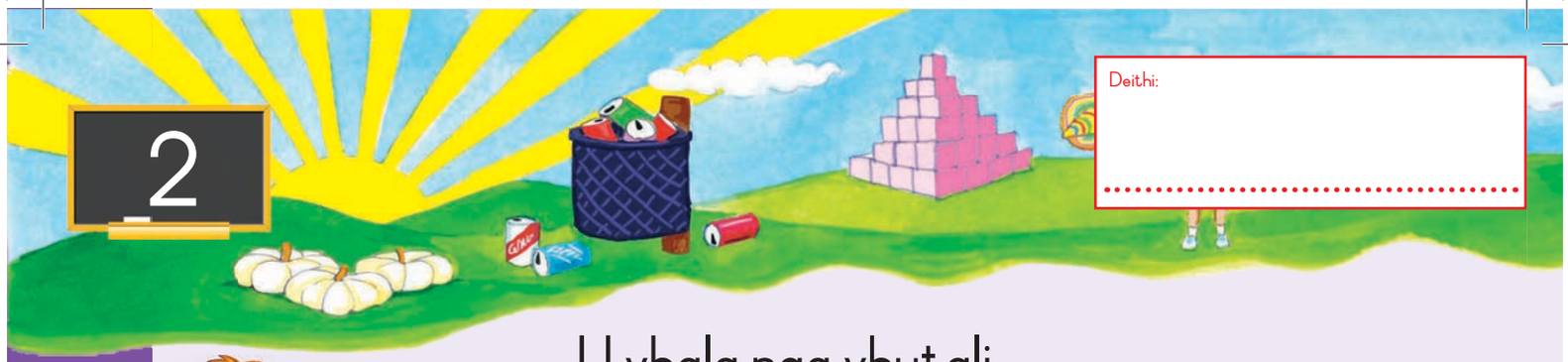


2

Deithi:

.....

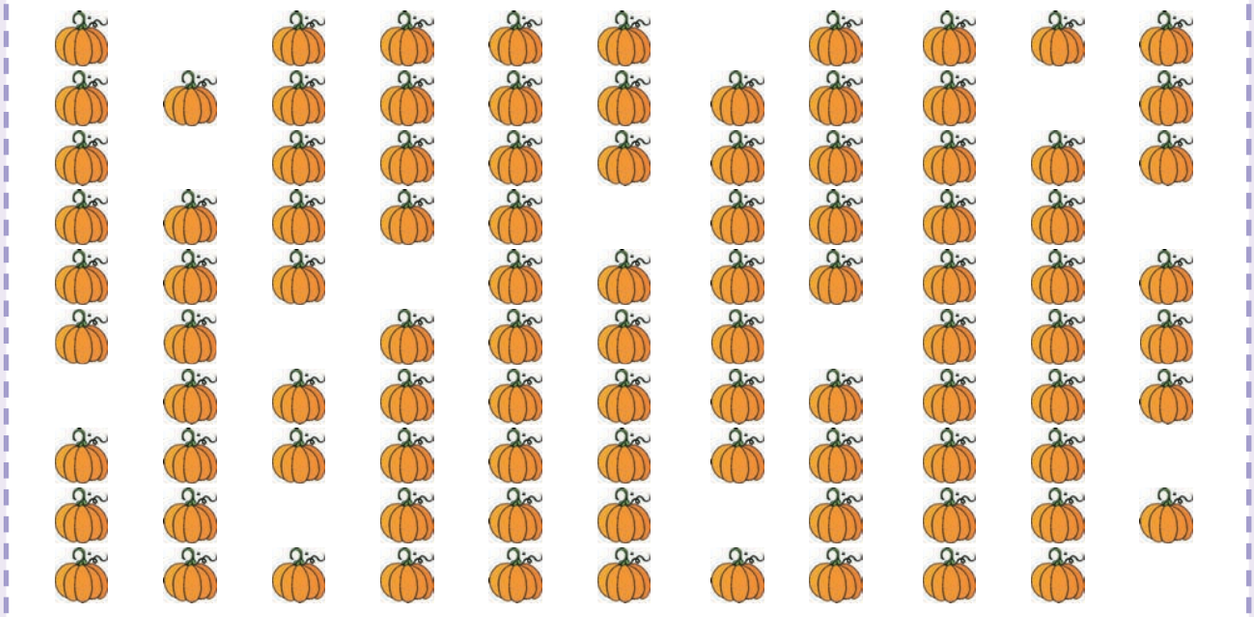
Themo ya 1

U vhala nga vhuṱali



U vhala mafhuri

U wana nḓila i leluwaho ya u a vhala.



Phindulo: _____



U paka mafhuri

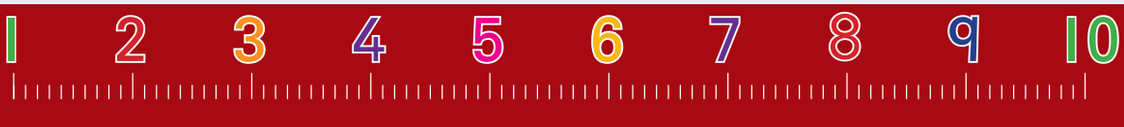
Mafhuri a fumi a dzhena sagani ḽithihi.



Ni nga ḓadza masaga mangana nga mafhuri?_____

O fhira nga mafhuri mangana? _____

Hu ṱoḓea maṅwe mafhuri mangana a u ḓadza saga ḽiṅwe hafhu? _____



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U bva kha + u ya kha × (muṱanganyo u ya kha muandiso)

Fhedzisani mitalombalo.

Tsumbo:
10 + 10 + 10 + 10 = 40 ⟹ 4 vhuzhi ha 10 = 40 ⟹ 4 × 10 = 40



a. 10 + 10 + 10 = _____

zwigwada zwa _____ zwa 10 ⟹ _____×_____ = _____



b. 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 = _____

zwigwada zwa _____ zwa 10 ⟹ _____×_____ = _____

Zwanḓa na minwe



Hu na zwanḓa zwingana? _____ Hu na minwe mingana?_____

Ṅwalani phindulo yaṋu nga ndila dza 2.

Zwigwada zwa ___ zwa 10 ___ = na ___ × 10 = ___

Teacher:
Sign:
Date:

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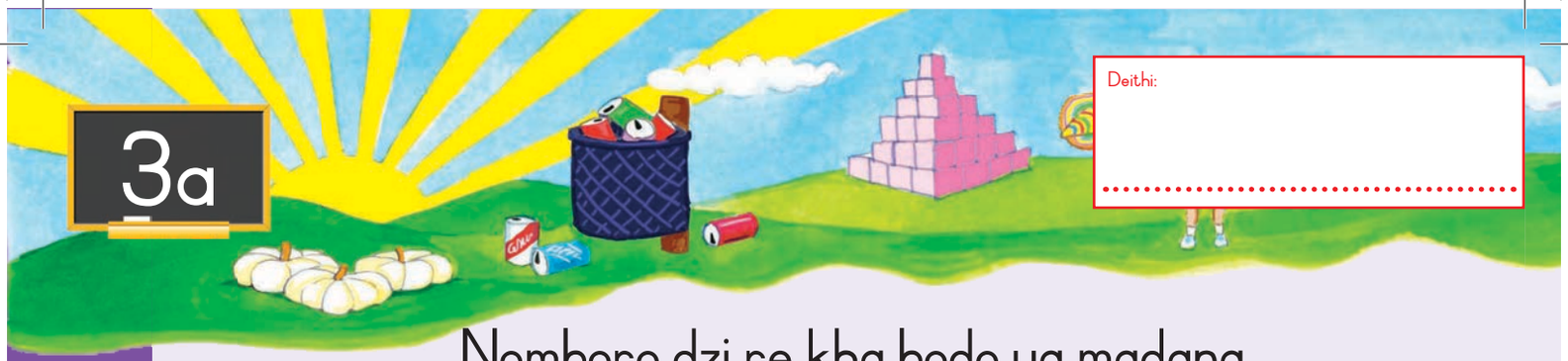

3a

Deithi:

Themo ya 1

Nomboro dzi re kha bodo ya maḓana



U amba nga nomboro

Vhalani na u bula nomboro dzoṱhe u bva kha 1 – 100. Sumbani ni tshi khou ralo u bula.

1	2	3	4	5	6		8	9	10
11									
						27			
			34						40
41									
				55					
		63							
71									
					86				
			94						100



a. Ṅwalani nomboro 1 no khou ṱahela kha tshibuḽoko tshiṅwe na tshiṅwe muvhala wa lutombo.

b. Ṅwalani idzo dziṅwe nomboro.

c. Nomboro dza ṱaḓa ndi nomboroḓe?



Ṅwalani nomboro nga maipfi.

90	fuṱahe	41	
77		56	
14		65	

1 2 3 4 5 6 7 8 9 10

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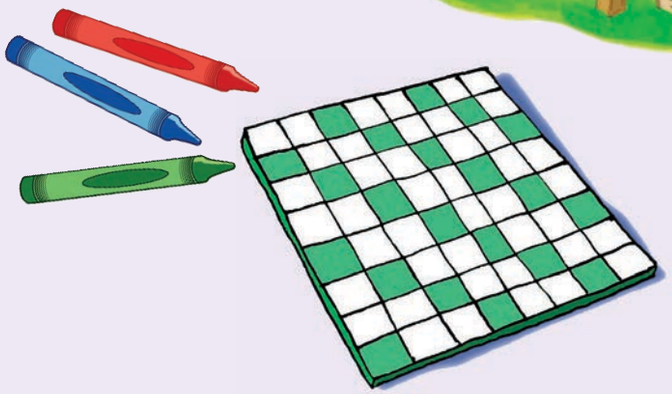
U vhala na u khaḽara

Ḓilugiseleni u vhala na u khaḽara!



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Vhalani ni thivhe 10.

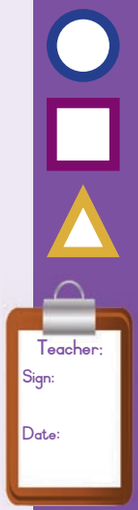
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Vhalani ni thivhe 5 u bva kha 0 – 100.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Vhalani ni thivhe 2.

Vhalani nga 10 u bva kha 10 u swika kha 100.	Vhalani nga 5 u bva kha 5 u swika kha 100.	Vhalani nga 2 u bva kha 2 u swika kha 100.
Ṅwalani nga dzi10 u swika kha 100.	Ṅwalani nga dzi5 u swika kha 80.	Ṅwalani nga dzi2 u swika kha 50.



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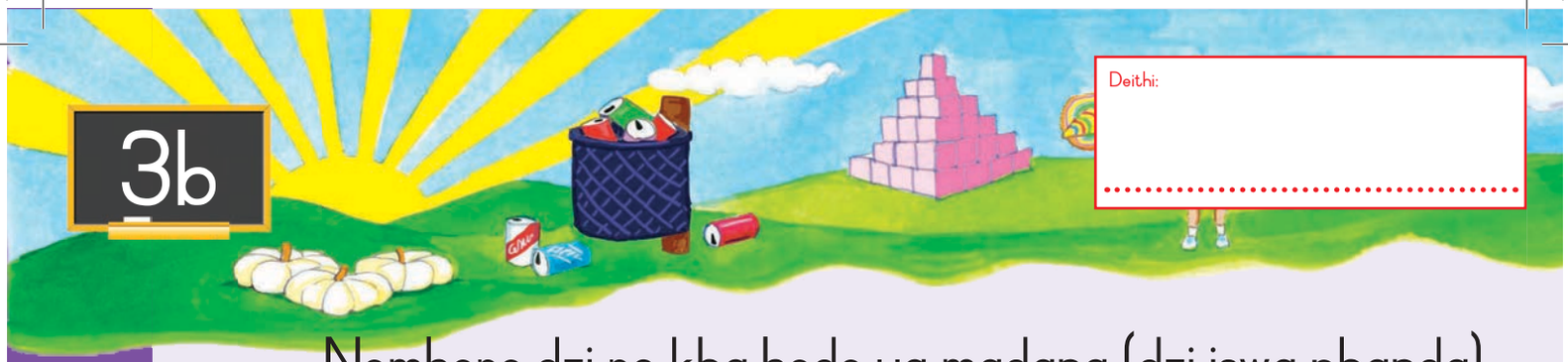


3b

Deithi:

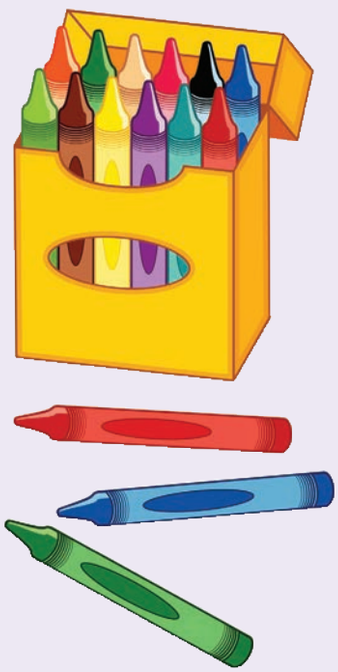
Themo ya 1

Nomboro dzi re kha bodo ya maḓana (dzi iswa phanḓa)



U ṱala phetheni

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	55	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Itani thiki kha 10 dzoṱhe.

Itani thiki kha 5 dzoṱhe.

Itani thiki kha 2 dzoṱhe.

Ṅwalani nomboro dza 20 dza u thoma dzine dza vha kha phetheni ya 2 na ya 5 vhuvhili hadzo.

_____

_____

_____

_____

1 2 3 4 5 6 7 8 9 10

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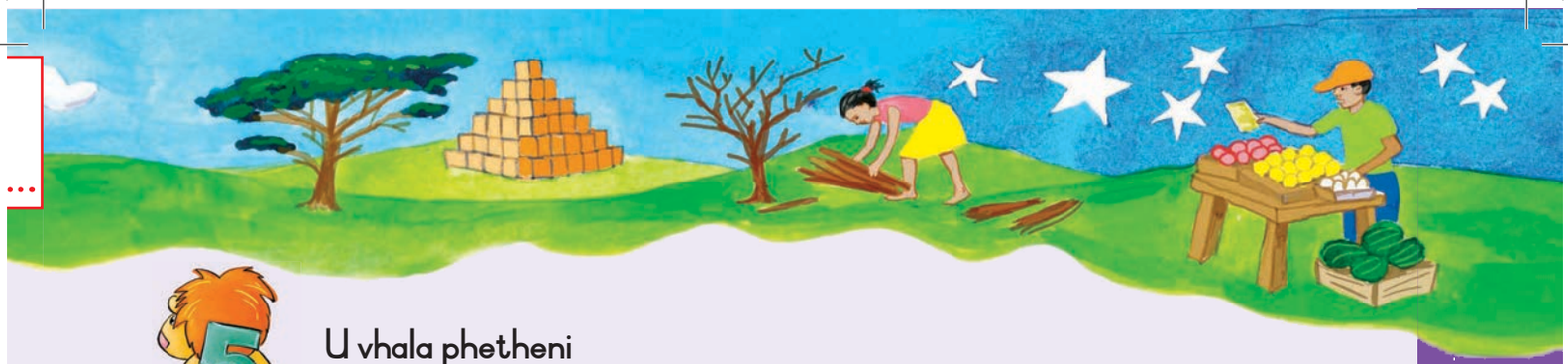


U vhala phetheni

Dzhenisani nomboro dzo ṱahelaho.

0; 10; 20; _____; _____; 50; _____; _____; 80; _____; 100; _____;

_____; 130; _____; _____; 160; _____; _____; _____; 200

0; 5; 10; _____; _____; 25;_____; _____; 40; _____; 50; 55; _____;

_____; 70; _____; _____; 85; _____; _____; 100

0; 2; 4; 6; _____; _____; 12; _____; _____; 18; _____; 22; 24; _____;

_____; 30; _____; _____; 36; 38; _____; _____; _____; 46; _____;

0; _____; 8; _____; 16; 20; _____; 28; _____; 36; _____; _____;

_____; 52; _____; _____; 64; _____; 72; _____; 80

0; _____; 10; _____; 20; _____;30; _____; 40; _____; _____; 55;

60; _____; 70; 75; _____; 85; _____; _____; 100

0; 3; _____; 9; _____; 15; 18; _____; 24; _____; _____; 33; _____; 39;

_____; 45; _____; _____; 54; 57; _____; 63; _____; _____; 72; 75

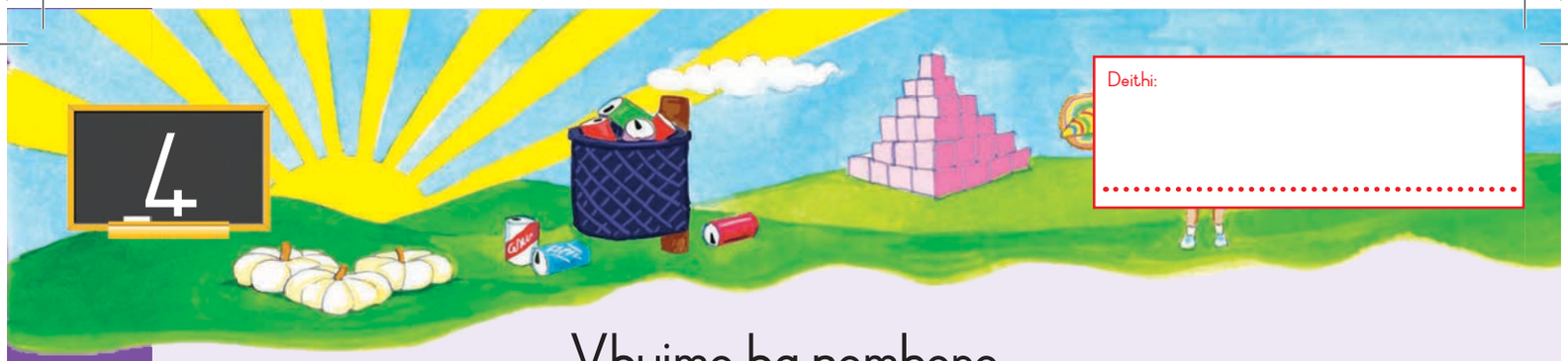
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

TSH NUM G3 B1 9781431500130.indb 9 2014/05/08 9:44 AM



Deithi:

.....

Vhuimo ha nomboro

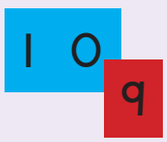


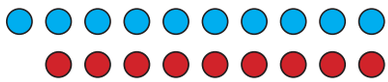
U sumbedza nomboro dzaṉu

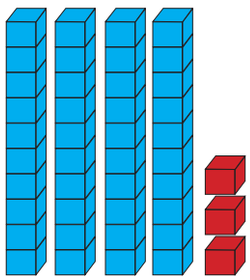
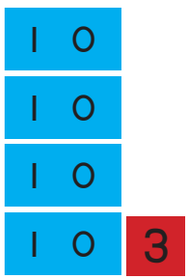
Gerani magaraṱa a nomboro a tshi bva kha bammbiri ḽa zwigeriwa ḽa 1.
Shumisani magaraṱa kha u fhaṱa nomboro idzi.

19 43 69 54 35





19   10 + 9 = 19

43   40 + 3 = 43

Zwino fhaṱani nomboro idzi nga inwi muṉe ni tshi shumisa Zwigeriwa 1.

54

35

69



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U ṅwala nomboro idzi

Ro dzula ro ni itela ya u thoma

Ri nga kha ḓi ri nthihi dza 9

19	10 + 9	1 fumi + 9 yuniti	
43			
69			
54			
35			
21			
73			
44			
32			
89			
17			
95			
56			
68			
67			



Ṅwalani nomboro ṱhanu dza u thoma, kha thebuḽu i re afho nṱha, dzi tshi tou tevhekana u bva kha ṱhukhusa u ya kha khulwanesa.

_____; _____; _____; _____; _____

Teacher:
Sign:
Date:

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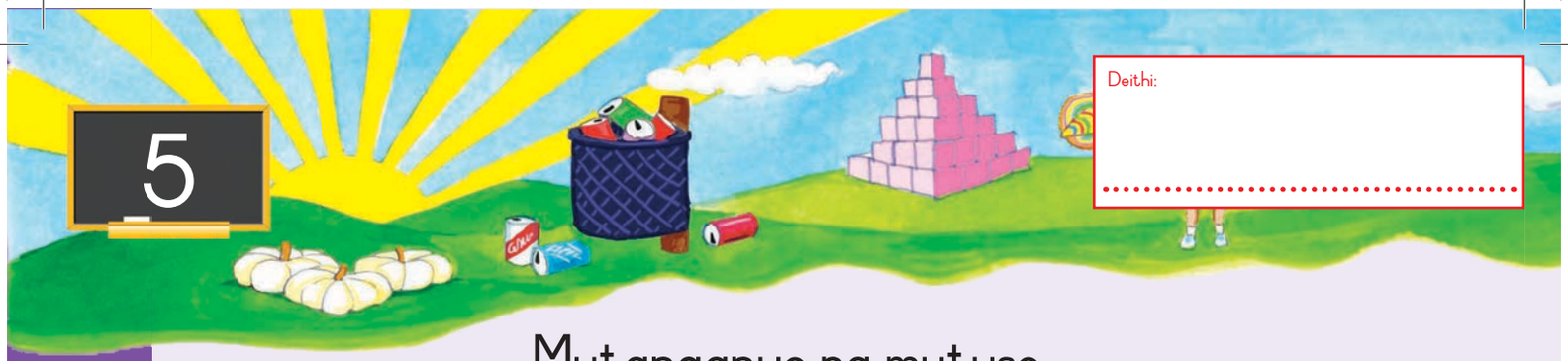

5

Deithi:

Themo ya 1

Muṱanganyo na muṱuso



Tshitolo tsha Takalani

Nga matsheloni Takalani u na phakhethe dza maapula dza 19.
Nga tshifhinga tsha tshiswiṱulo o sala na phakhethe dza 13.



a. Ndi phakhethe nngana dze Takalani a rengisa? _____

b. Ṅwalani phindulo yaṋu sa fhungombalo.

_____ – _____ = _____

Ṅwalani maṅwe mafhungombalo maṱanu ni tshi sumbedza phindulo i fanaho.

15 – 9 = 6 _____ _____ _____ _____ _____



Ndovhololo ya nomboro

Ṅwalani phindulo.

1+2=3

Shumisani ...
+ – =

10 + 5 = ☐	11 + 6 = ☐	14 – 9 = ☐	14 – 8 = ☐
11 + 5 = ☐	17 + 2 = ☐	19 – 7 = ☐	14 – 5 = ☐
12 + 6 = ☐	3 + 13 = ☐	16 – 5 = ☐	16 – 13 = ☐
17 + 2 = ☐	4 + 15 = ☐	15 – 10 = ☐	19 – 7 = ☐



Miṱa ya nomboro

5 | 9 | 14

Tsumbo dza uno muṱa wa nomboro khedzi

9 + 5 = 14	5 + 9 = 14
14 – 9 = 5	14 – 5 = 9

1 2 3 4 5 6 7 8 9 10

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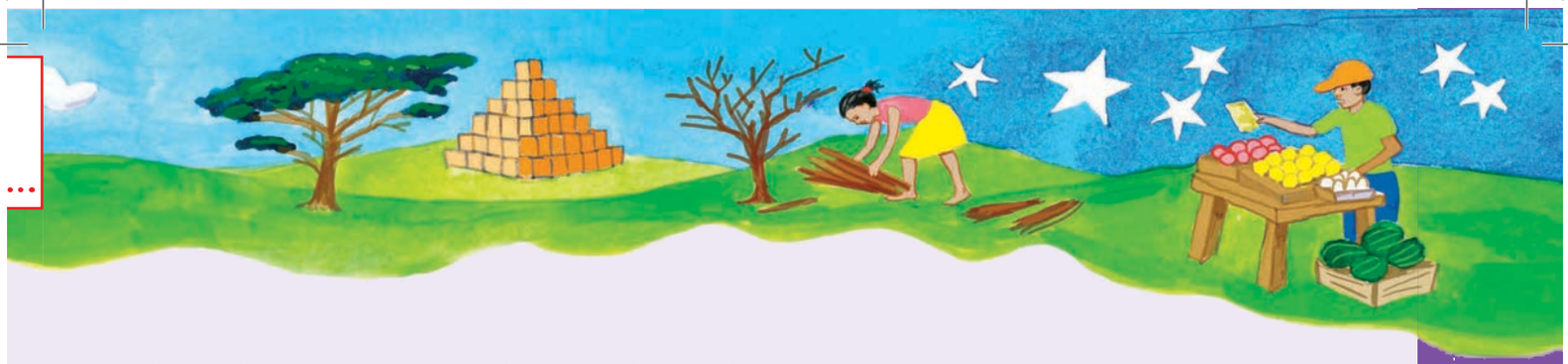

Ni nga kona u wana miṱa yoṱhe ya nomboro 14?

1 + 13 = 14	13 + 1 = 14	14 – 1 = 13	14 – 13 = 1
2 + 12 =			
3 + 11 =			
4 + 10 =			
5 + 9 =			
6 + 8 =			
7 + 7 =			



Ndi khou ya u ita zwi no fana na zwenezwi nga 12.

12

1 + 11 = 12			
2 + 10 = 12			
3 + 9 = 12			
4 + 8 = 12			
5 + 7 = 12			
6 + 6 = 12			

Teacher:
Sign:
Date:

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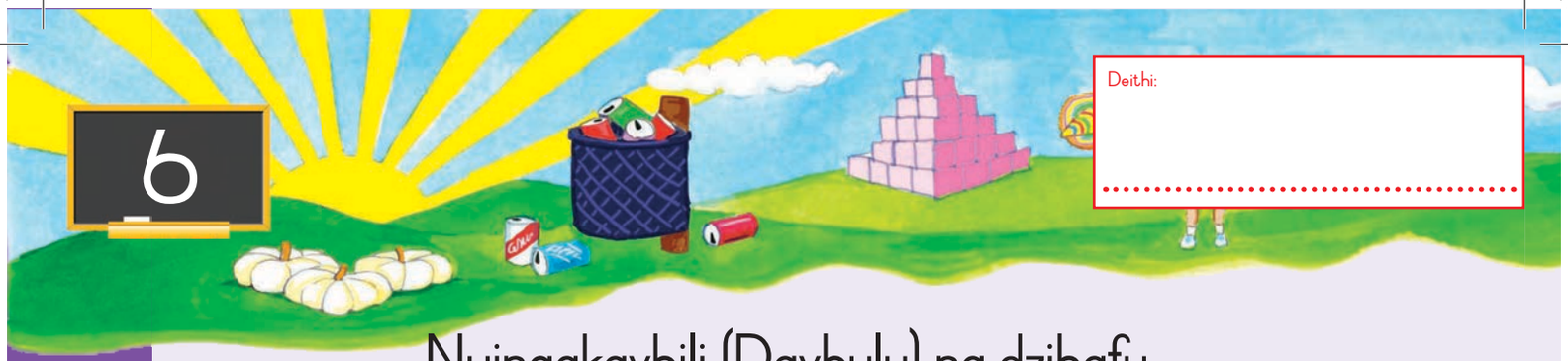
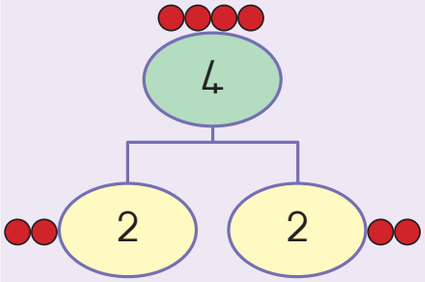


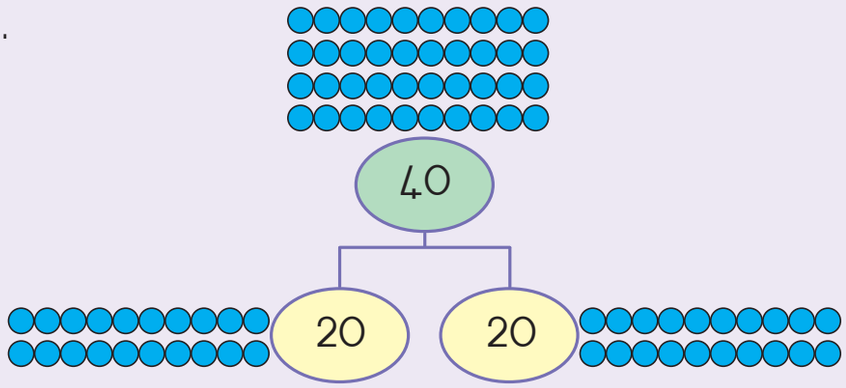
Nyingakavhili (Davhulu) na dzihafu

Ni kha ḓi elelwa naa?

Nyingakavhili ya 2 ndi 4 Nyingakavhili ya 20 ndi 40 4 ndi 2 kavhili 40 ndi 20 kavhili

Ri nga sumbedza izwi nga nyolo ...

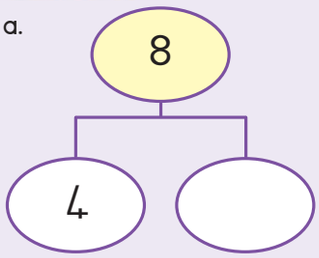




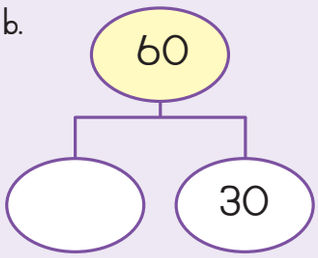


Wanani davhulu kana dzihafu

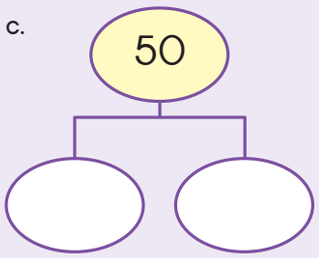
a.



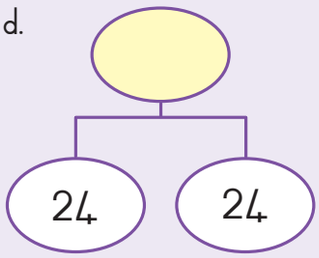
b.



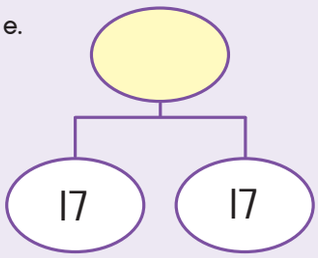
c.



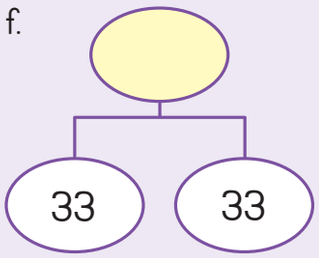
d.



e.



f.





Khaedu

Wanani hafu nthihi ya 3.

I sumbedzeni sa nomboro kana dzinambalo. Nyolo i nga ni thusa.

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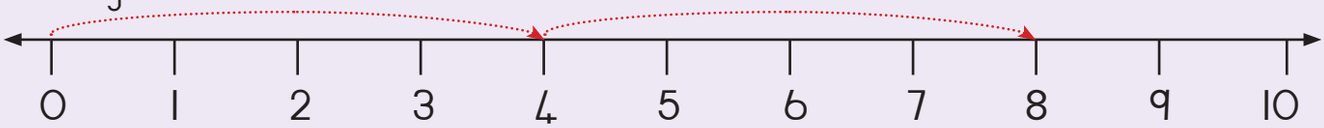
Ingani kavhili (davhulani) nomboro ni tshi shumisa mutalombalo. No n̂ewa tsumbo ya u thoma.

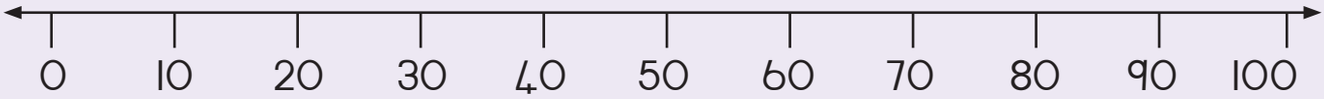
a. Ingani kavhili 4 [4] + [4] = [8]



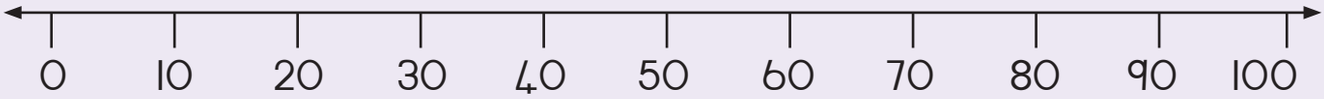
b. Ingani kavhili 5 [ ] + [ ] = [ ]



c. Ingani kavhili 20 [ ] + [ ] = [ ]



d. Ingani kavhili 40 [ ] + [ ] = [ ]





Fhedzisani zwi tevhelaho

a. Ingani kavhili 1	2
b. Ingani kavhili 6	
c. Ingani kavhili 10	
d. Ingani kavhili 30	
e. Ingani kavhili 50	



Fhedzisani zwi tevhelaho

a. Hafulani 6	3
b. Hafulani 8	
c. Hafulani 14	
d. Hafulani 60	
e. Hafulani 70	



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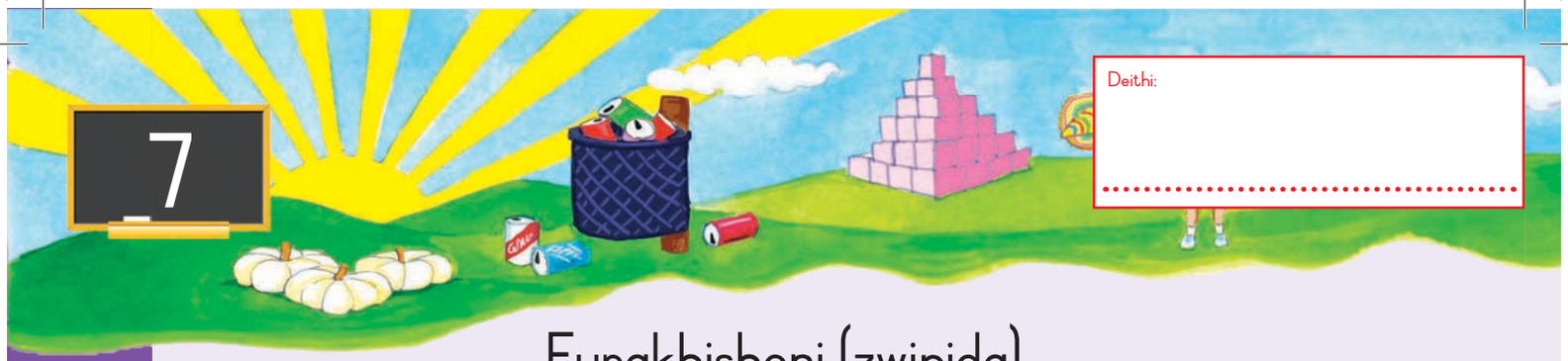
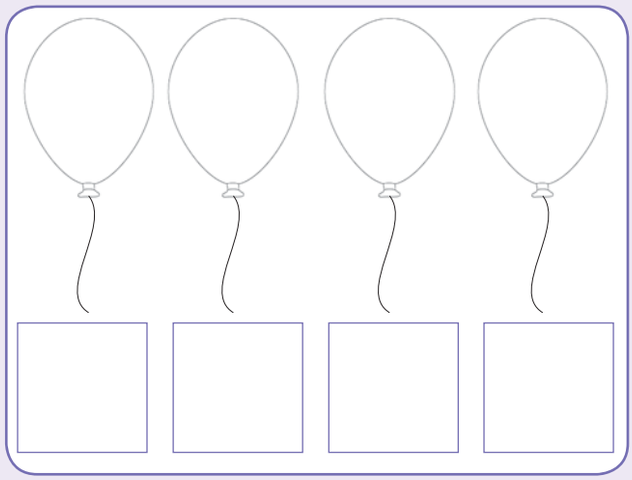


Furakhisheni (zwipiḓa)

Khaḽarani kota nthihi ya mabaḽoni nga muvhala mutswuku ayo mańwe nga wa lutombo.

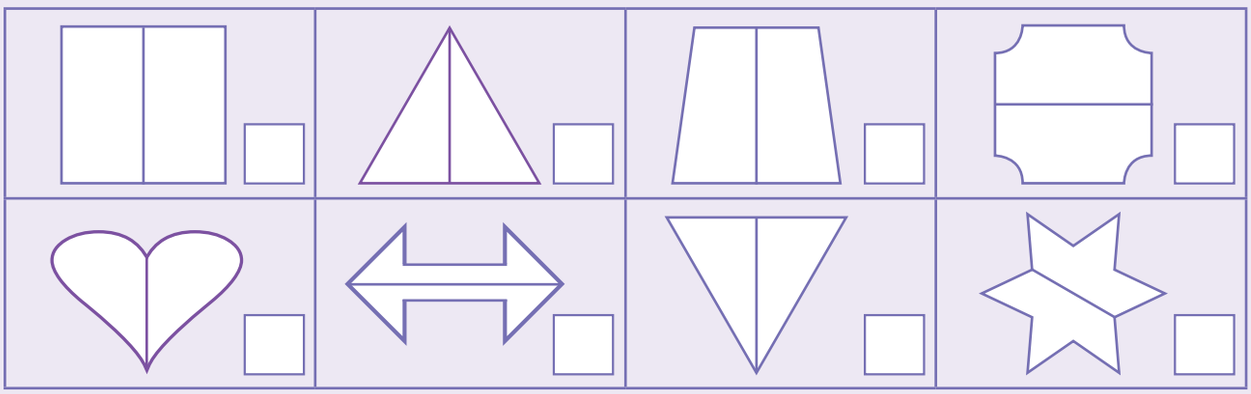
Khaḽarani hafu nthihi ya tshibogisi tshiṅwe na tshiṅwe nga muvhala mutswuku.





Lavhelesani tshifanyiso. Ṅwalani thiki kha zwivhumbeo zwi no sumbedza dzihafu.

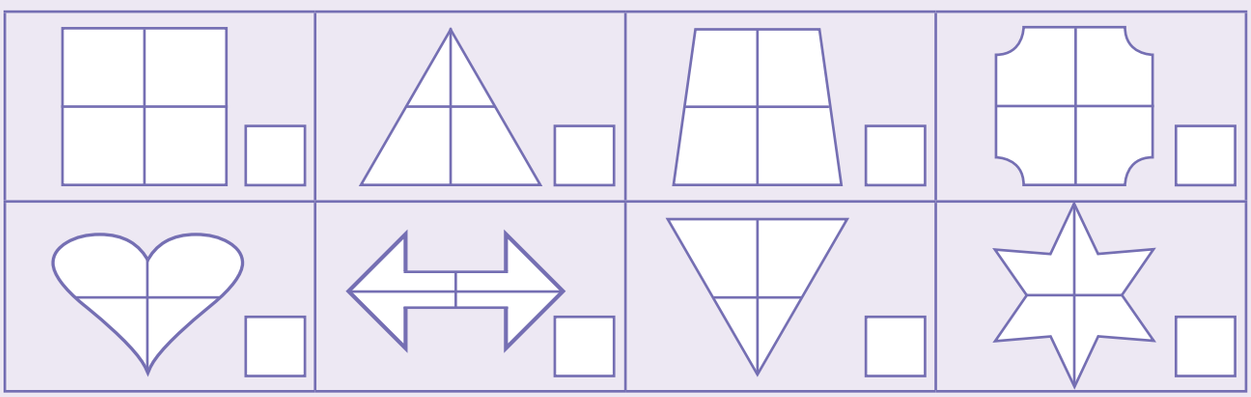
Khaḽarani hafu nthihi ya tshivhumbeo tshiṅwe na tshiṅwe tshe tsha fhandulwa tsha bva dzihafu.





Lavhelesani zwivhumbeo. Ṅwalani thiki kha zwivhumbeo zwi no sumbedza dzikota.

Khaḽarani kota nthihi ya tshivhumbeo tshiṅwe na tshiṅwe tshe tsha fhandulwa tsha bva dzikota.



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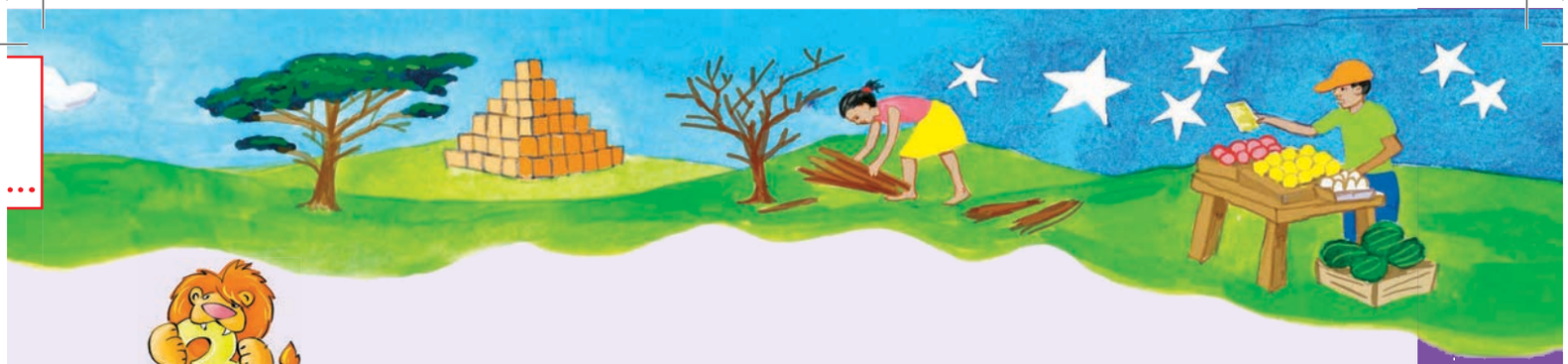
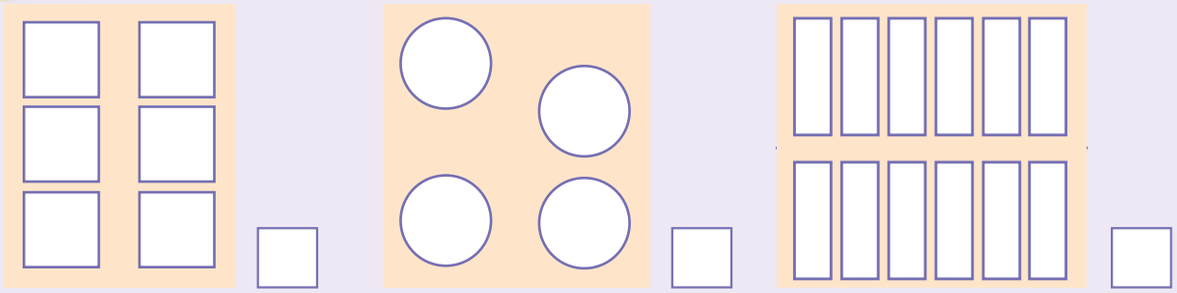
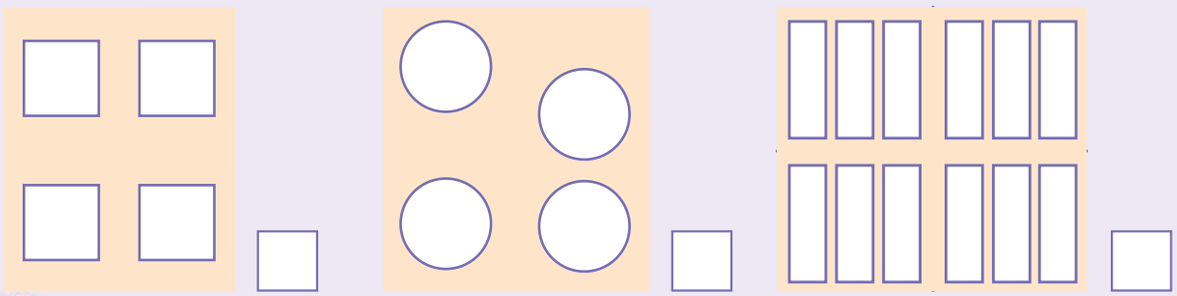


Khaḽarani hafu ya zwivhumbeo. Hafu ya tshivhalo tsha zwivhumbeo ndi ifhio?





Khaḽarani kota ya zwivhumbeo. Kota ya tshivhalo tsha zwivhumbeo ndi ifhio?

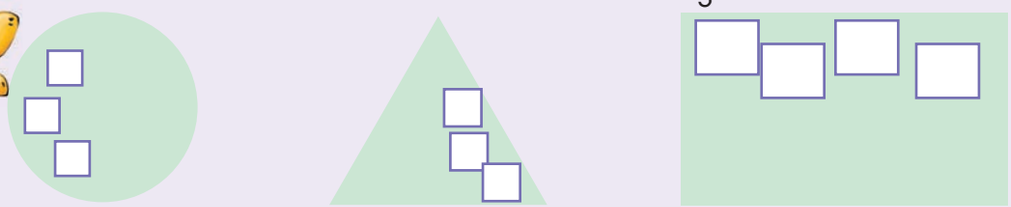




Ṅwalani sa luswayo (tshiga) lwa furakhisheni. hafu nthihi ☐ kota nthihi ☐

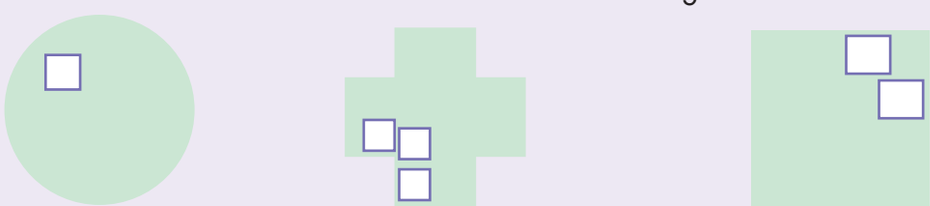


Olani zwivhumbeo zwiṅwe hafhu u itela uri hafu iṅwe i lingane na iṅwe.





Olani zwivhumbeo zwiṅwe hafhu u itela uri kota iṅwe i lingane na iṅwe.





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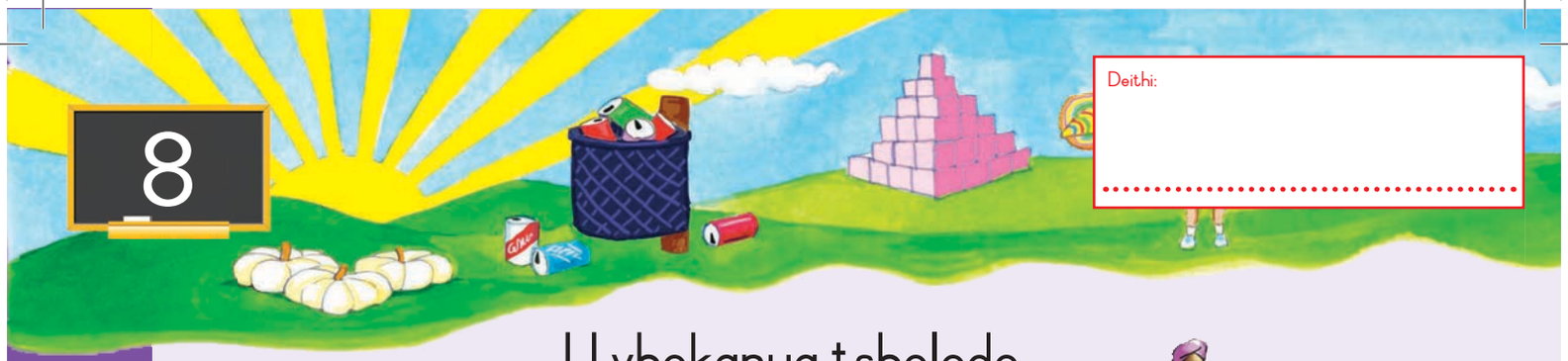

U vhekanya tshelede



Tshiṱokofelani

Mufumakadzi Vho Singo vha vhala na u vhekanya tshelede i bvaho kha tshigwada.











Anganyelani tshelede yoṱhe.	R_____
Vhalani tshelede.	R_____

Vhambedzani zwe zwa anganyelwa na ṱhanganyelo.



U vhulunga tshelede



Gugu u vhulunga tshelede ya renga phere ya zwienda i no ḓura R89.
U swika zwino u na hafu ya tshelede iyo.
U ṱoḓa vhugai nga ṇtha?
Ṅwalani fhungombalo ḽa u sumbedza phindulo yaṋu.

_____ _____ _____



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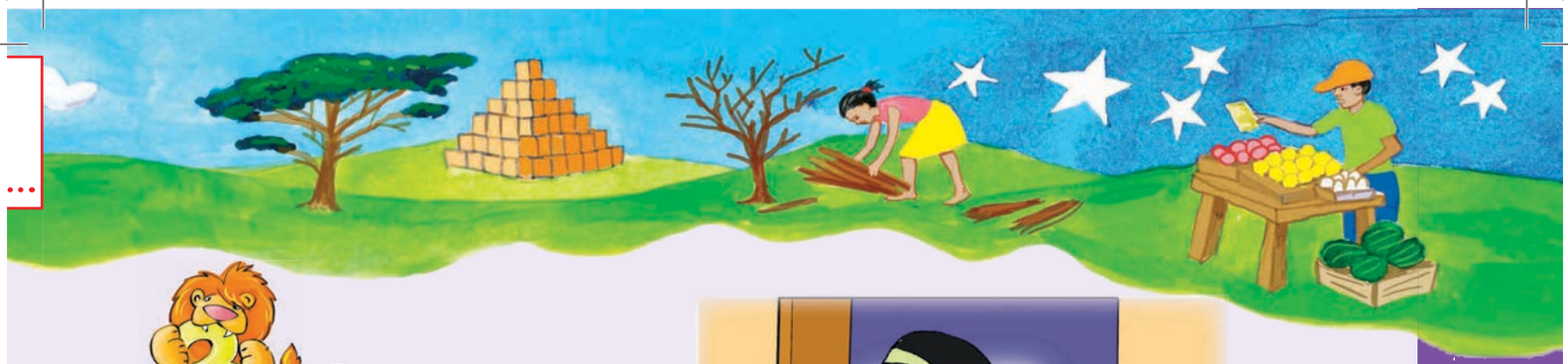
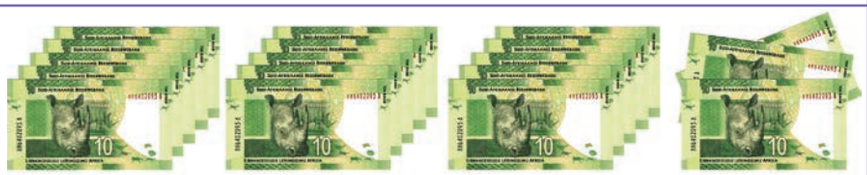


Banngani

Maria u vhekanya tshelede ya bammbiri nga zwiṱhopho zwa 5.
O sala na iṅwe tshelede ya bammbiri.
Ṅwalani ṱhanganyelo ya tshifanyiso tshiṅwe na tshiṅwe.



	Ṱhanganyelo
	R_____
	R_____
	R_____



Khaedu

U dala zuu

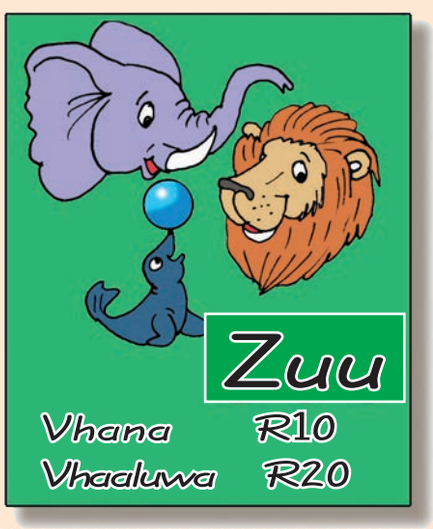
Vhaaluwa na vhana vhaṅwe vha ya zuu.
Vha renga thikhithi dza R90.

Vhana ndi vhangana? _____

Vhaaluwa ndi vhangana? _____

Hu na iṅwe phindulo naa?

Vhaaluwa _____ Vhana _____



Teacher:
Sign:
Date:

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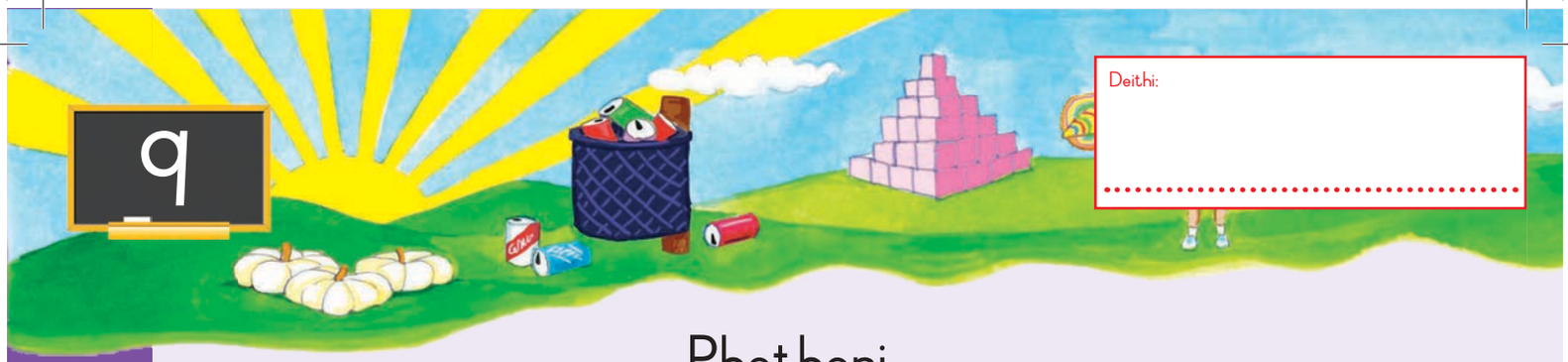

Phetheni



Shumisani bodo iyi ya nomboro ya 200 kha u fhindula mbudziso

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200



Shumisani bodo iyi ya nomboro ya 200 kha u fhedzisa nomboro nṅa dzi no tevhela kha phetheni idzi dza nomboro. Khaḽarani phetheni idzi kha bodo ya nomboro.

105, 110, 115, ____, ____, ____, ____	87, 90, 93, ____, ____, ____, ____
36, 40, 44, ____, ____, ____, ____	184, 186, 188, ____, ____, ____, ____
70, 65, 60, ____, ____, ____, ____	138, 135, 132, ____, ____, ____, ____
180, 176, 172, ____, ____, ____, ____	14, 12, 10 ____, ____, ____, ____



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Ndi zwifhio zwine na kona u vhona malugana na nomboro dzi re na muvhala muthihi?

U vhalela nga **ṱhanu**.

				5					10

U vhalela nga **mbili**.

	2		4						

U vhalela nga **tharu**.

		3			6				

U vhalela nga **mahumi**.

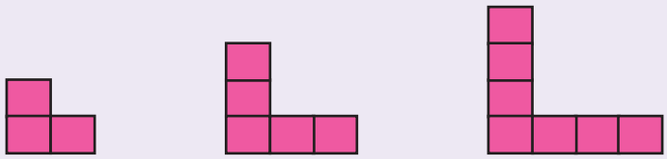
									10

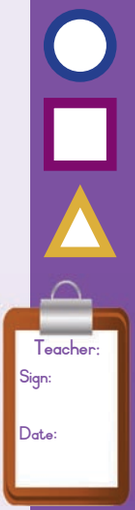


Ṱharamudzani phetheni









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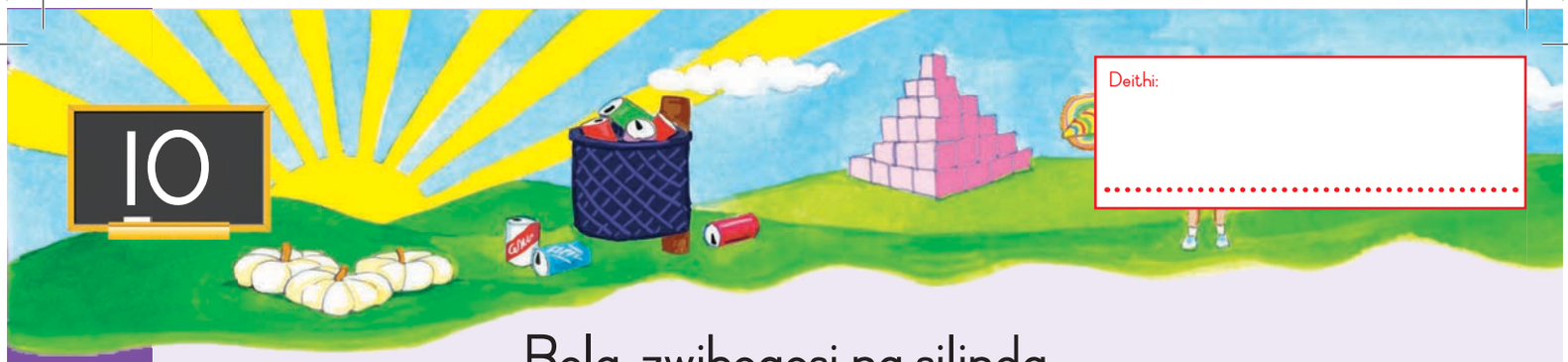


10

Deithi:

.....

Bola, zwibogosi na siḽinda







Tangedzelani zwibogisi nga muvhala wa lutombo, bola nga mutswuku siḽinda nga mudala.



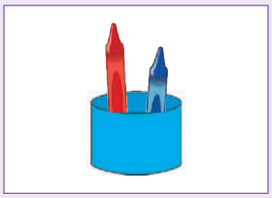


Khaḽarani phindulo i re yone.



Bogisi ḽi a

swenda | kunguluwa



Siḽinda ḽi a

swenda | kunguluwa



Bola ḽi a

swenda | kunguluwa

1 2 3 4 5 6 7 8 9 10

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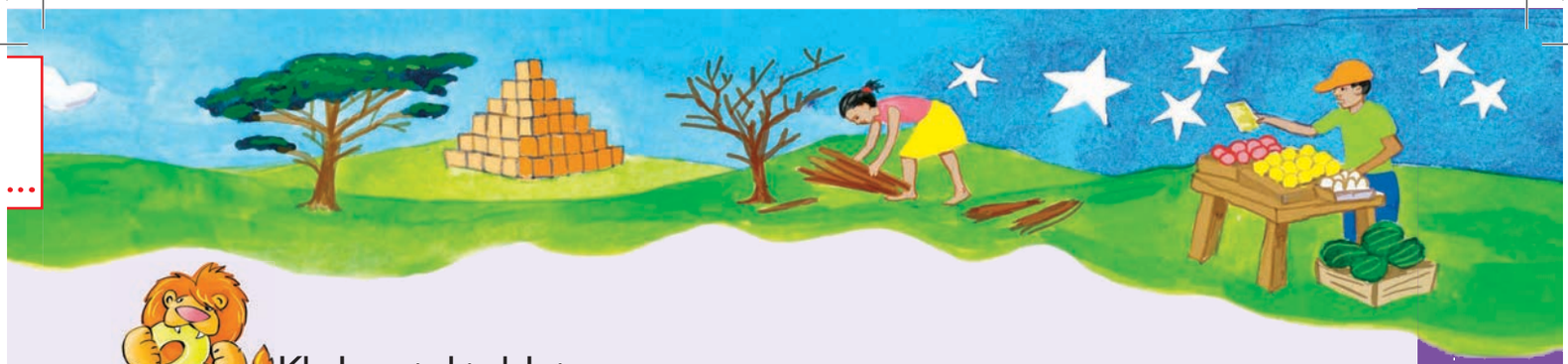


3 Khaḽarani phindulo i re yone.



lumeme lwa tshipulumbu (khulungwa)

lumemetswititi



lumeme lwa tshipulumbu (khulungwa)

lumemetswititi



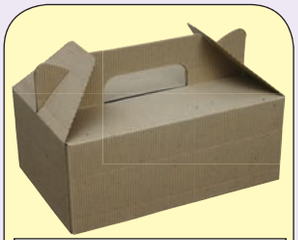
lumeme lwa tshipulumbu (khulungwa)

lumemetswititi



lumeme lwa tshipulumbu (khulungwa)

lumemetswititi



lumeme lwa tshipulumbu (khulungwa)

lumemetswititi



lumeme lwa tshipulumbu (khulungwa)

lumemetswititi



lumeme lwa tshipulumbu (khulungwa)

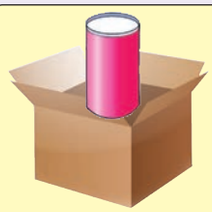
lumemetswititi



lumeme lwa tshipulumbu (khulungwa)

lumemetswititi

4 Bulani uri bola i murahu ha, phanḓa ha, tsini na kana nṱha ha bogisi.



murahu ha | phanḓa ha

tsini na | nṱha ha



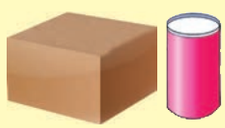
murahu ha | phanḓa ha

tsini na | nṱha ha



murahu ha | phanḓa ha

tsini na | nṱha ha



murahu ha | phanḓa ha

tsini na | nṱha ha

Teacher:

Sign:

Date:

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Deithi:

Themo ya 1

Olani, ni bule madzina na u vhambedza zwivhumbeo zwa 2-D



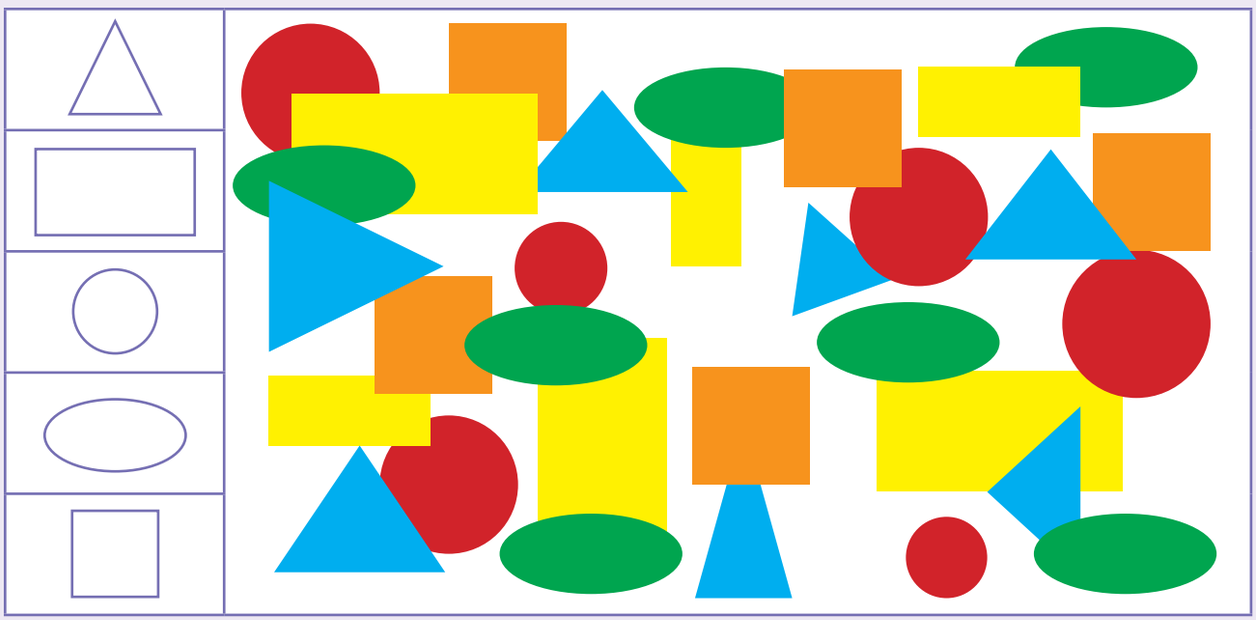
U ola zwivhumbeo

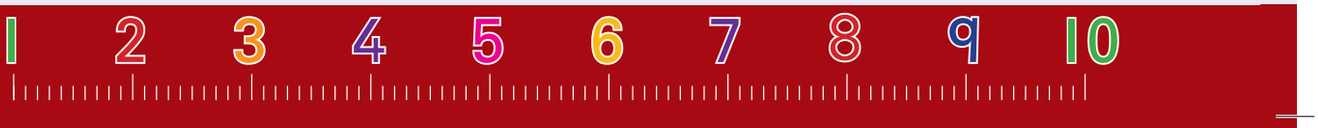
Thiraiengele		Tshitendeledzi	
Tshikwea		Rekithiengele	



U vhala zwivhumbeo

Vhalani uri ndi zwivhumbeo zwingana zwi ngaho itshi zwine ni nga zwi wana tshifanyisoni.





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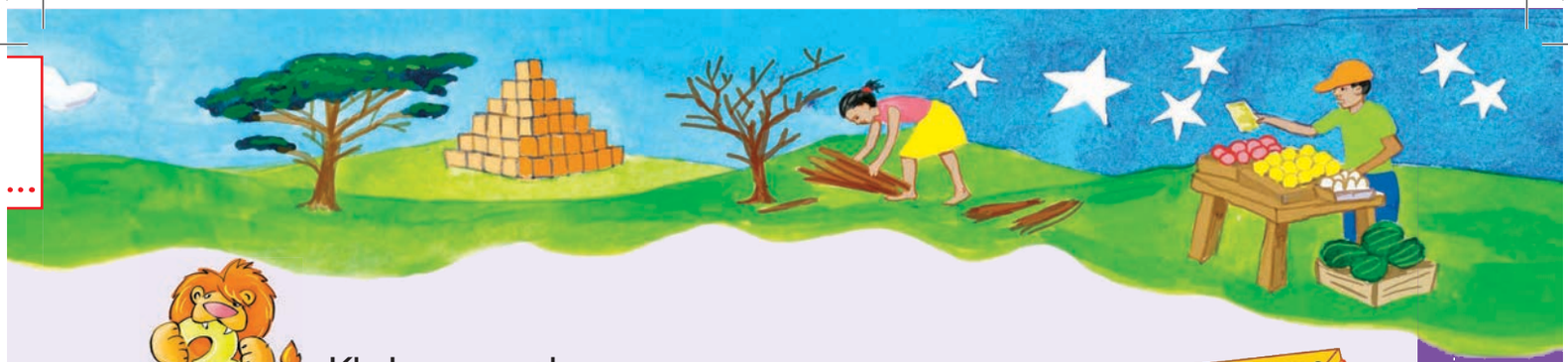


Khaḽarani zwoṱhe

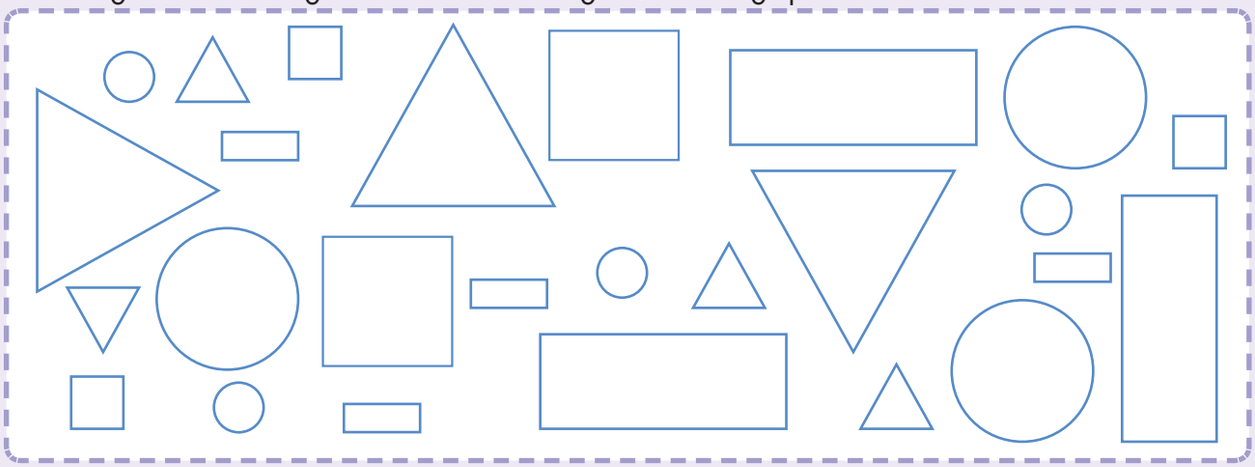


zwitendeledzi zwihulwane nga muvhala mutswuku; zwitendeledzi zwiṱuku nga mudala;

thiraiengele khulwane nga wa lutombo; thiraiengele ṱhukhu nga tshitopana;

zwikwea zwihulwane nnga ṱaḓa; zwikwea zwiṱuku nga phephuḽu;

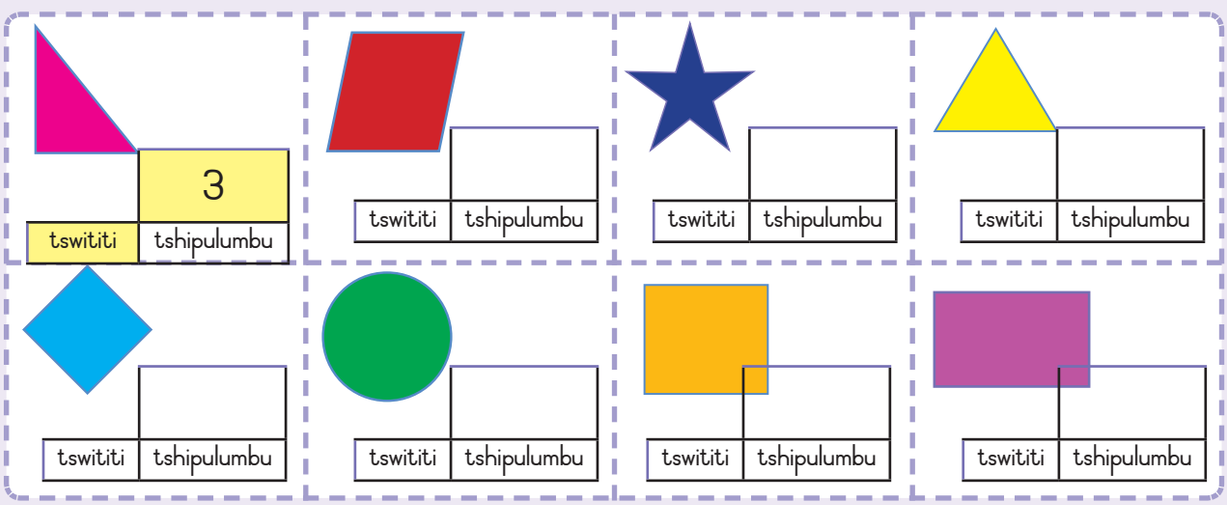
rekithiengele khulwane nga buraweni; rekithiengele ṱhukhu nga pinki.

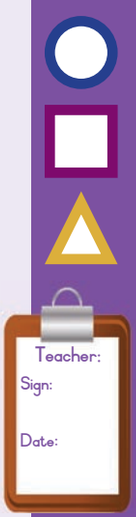




Hu na vhurumbu (matungo) vhugana?

Tshivhumbeo tshiṅwe na tshiṅwe tshi na vhurumbu vhungana? Ṅwalani nomboro i re kha tshibuḽoko. Ro ni itela nthihi. Vhurumbu ndi tswititi kana ndi tshipulumbu? Khaḽarani phindulo i re yone.





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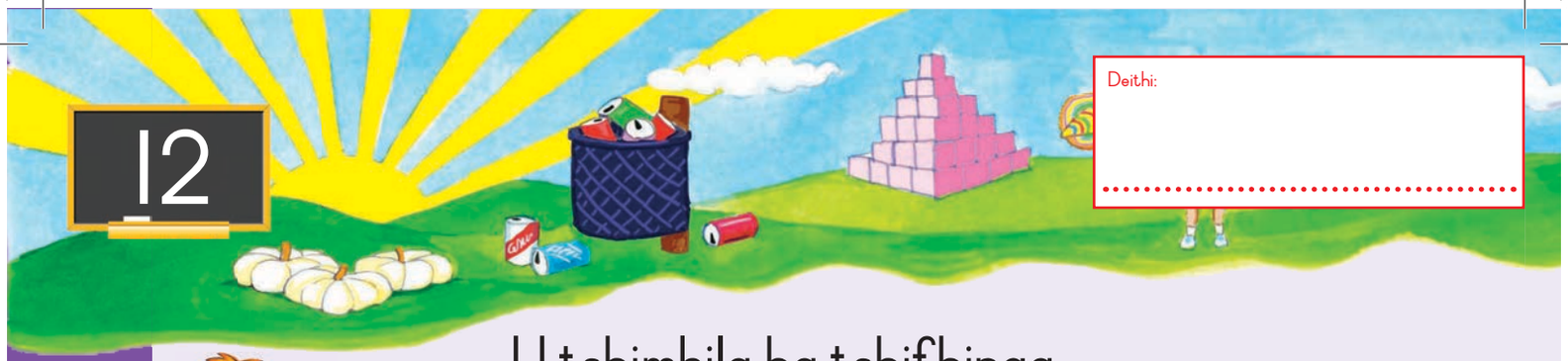


12

Deithi:

.....

Themo ya 1

U tshimbila ha tshifhinga



U vhala tshifhinga

Ndi zwifhinga zwifhio zwine watshi idzi dza luvhondoni dza sumbedza?







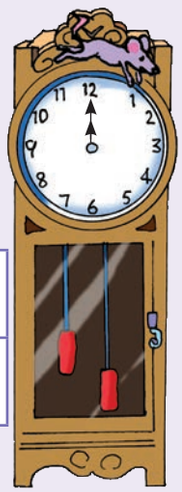


Awara ya _____ Awara ya _____ Awara ya _____ Awara ya _____



Thamuwani ni tshi mona na watshi

Thusani Minnie Mouse u vhala miminete nga dzi5.
Thomani kha 12. Ni mone nayo yo̱the.



Ni vha no vhala miminete mingana? _____

Hu na miminete mingana kha awara ya 1. _____



U n̓wala tshifhinga

Olani ma̱nanga ni tshi sumbedza zwifhinga.



kotara u bva kha awara ya 6



hafu u bva kha awara ya 8



kotara u ya kha awara ya 11



hafu u bva kha awara ya 5

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Zander u ya tshikoloni.





U bva hayani.



U swika tshikoloni.

Zander u dzhia tshifhinga tshingafhani? _____



Ḓuvha ḽa u baka

Vho Maria vha baka vhurotho.



Vhurotho vhu dzhena ovenini.



Vhurotho vhu a bva.



Vhurotho vhu bakiwa awara dza _____ .



Khaedu



Nga tshifhinga tsho ingwaho kavhili

a. Shandukisani awara dzi vhe miminete.

Awara	1	2	4	8
Miminete	60			

b. Jabu u fhedza miminete ya 45 u ya tshikoloni. Pfano u fhedza tshifhinga itshi luvhili.
Ndi awara nngana dzine Zander a fhedza u swika tshikoloni? _____

Teacher:
Sign:
Date:

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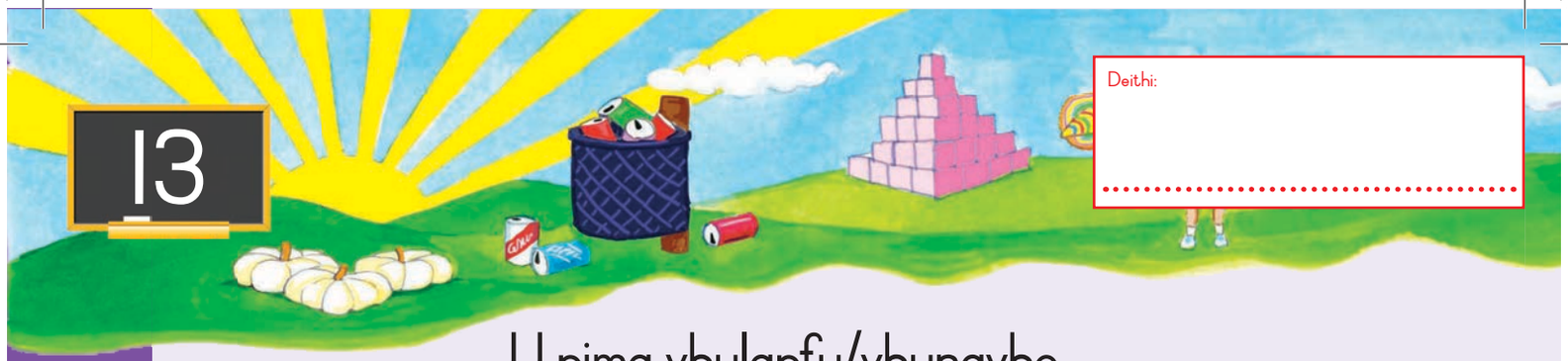


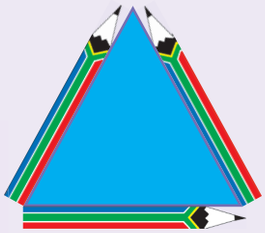
13

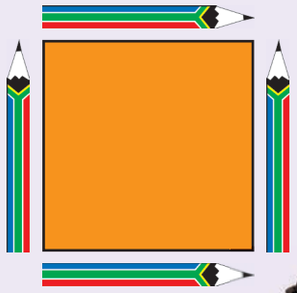
Deithi:

Themo ya 1

U pima vhulapfu/vhunavho











Musi o ṱangana oṱhe, masia a thiraiengele iyi a na vhulapfu hu no lingana na ha pinisela dza 3.



Musi o ṱangana oṱhe, masia a tshikwea itshi a na vhulapfu hu no lingana na ha pinisela dza 4.

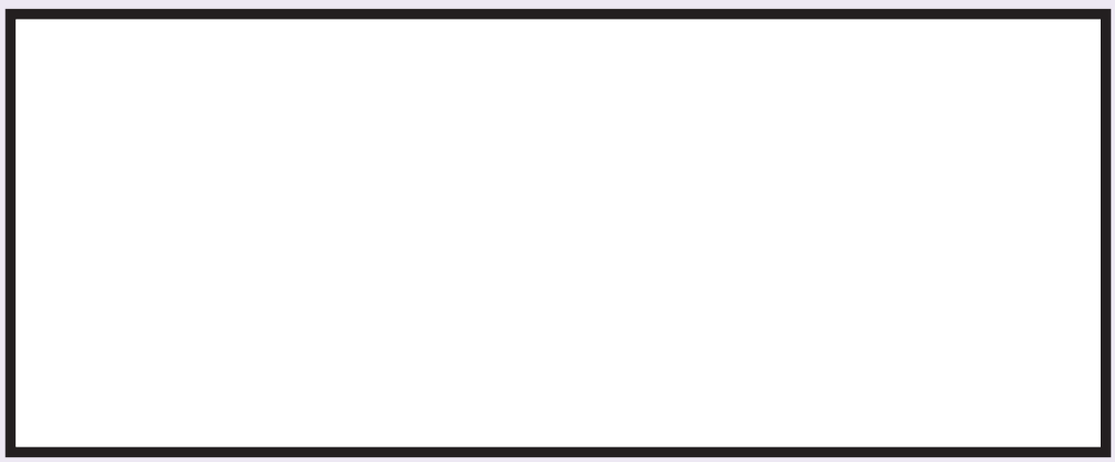


A thi ḓivhi uri rekithiengele iyi i nga vha i na vhulapfu na u ṱanḓavhuwa zwingafhani.

Rekithiengele iyi i na vhulapfu vhungafhani ha penisela? ☐

Rekithiengele iyi i na u ṱanḓavhuwa vhungafhani ha penisela? ☐

vhulapfu





vhuphara

No shumisa penisela nga ndilaḓe kha u vhala?



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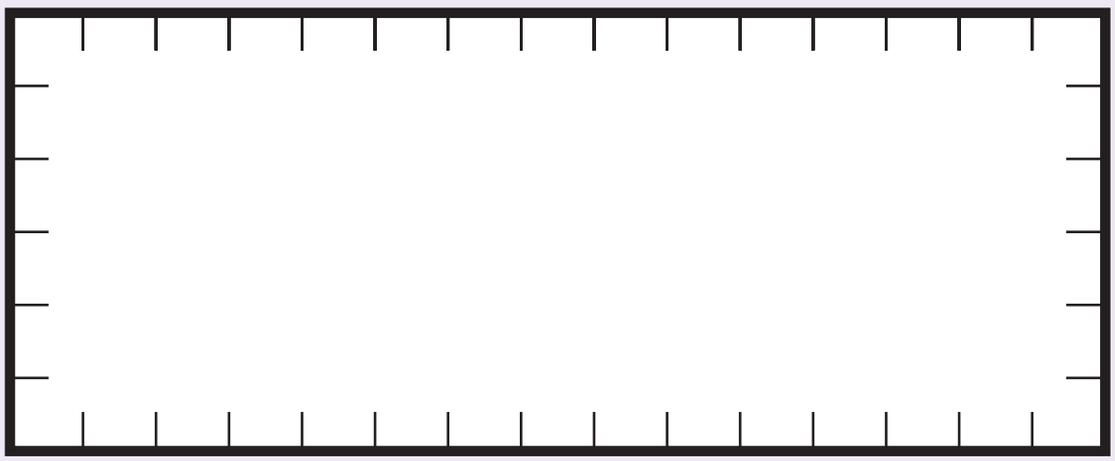
Tshibulebule tsha vhulapfu

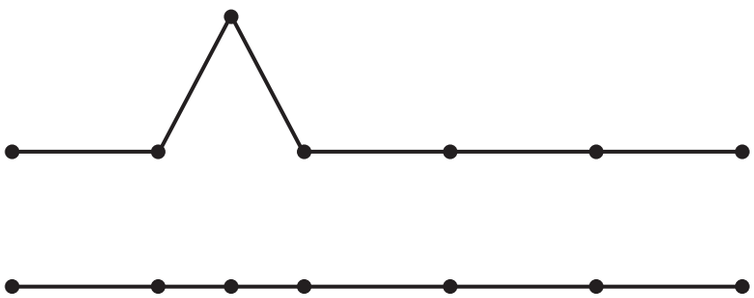
a. Ndi mitalo mingana miseṱha ine na i ṱoḓa uri ni kone u tiba mutalo mutswu?



b. Ndi mitalo mingana miseṱha ine na i ṱoḓa uri ni ḓo kona u mona na rekhitiengele?

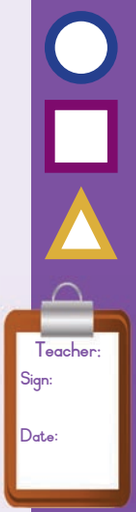


c. Ndi tshifhio tsho lapfesaho, ndila ya nṱha kana ya fhasi, kana dzi a lingana?



Phindulo _____

Ndi ngani? _____



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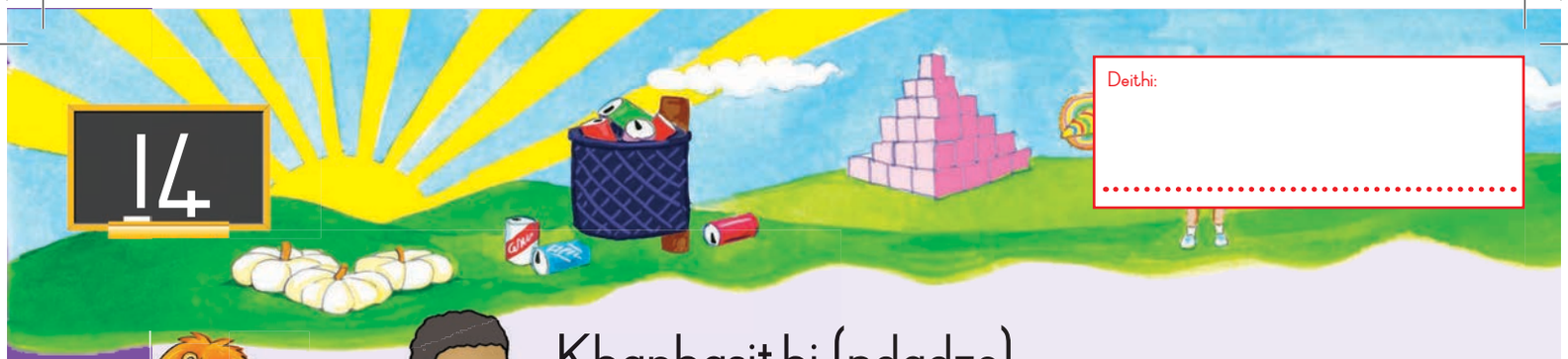


14

Deithi:

Themo ya 1



Khaphasithi (nd̯adzo)



Ndo no shela lebula nn̯a khaphuni

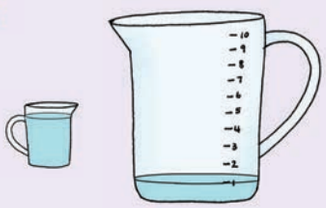
Ndi khaphu nngana hafhu dza mad̯i dzine dza nga d̯adza tshifaredzi (mudzio)?

_____



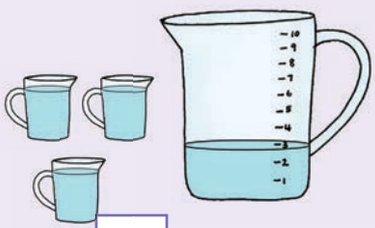
Hu na khaphu nngana dza mad̯i kha tshifaredzi? Ri t̯od̯a khaphu nngana hafhu uri ri d̯adze tshifaredzi?

a.



Kha tshifaredzi: 1 Hu t̯od̯ea hafhu: 9

b.



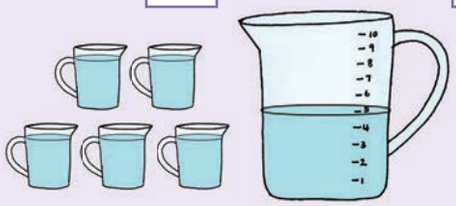
Kha tshifaredzi: Hu t̯od̯ea hafhu:

c.



Kha tshifaredzi: Hu t̯od̯ea hafhu:

d.



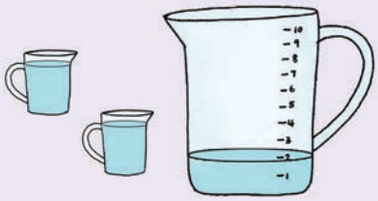
Kha tshifaredzi: Hu t̯od̯ea hafhu:

e.



Kha tshifaredzi: Hu t̯od̯ea hafhu:

f.



Kha tshifaredzi: Hu t̯od̯ea hafhu:

1 2 3 4 5 6 7 8 9 10

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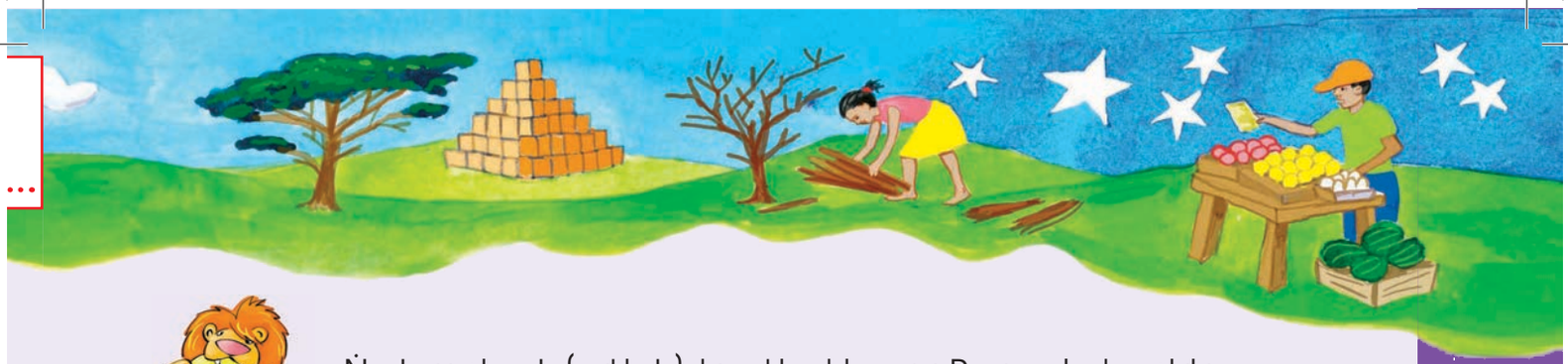
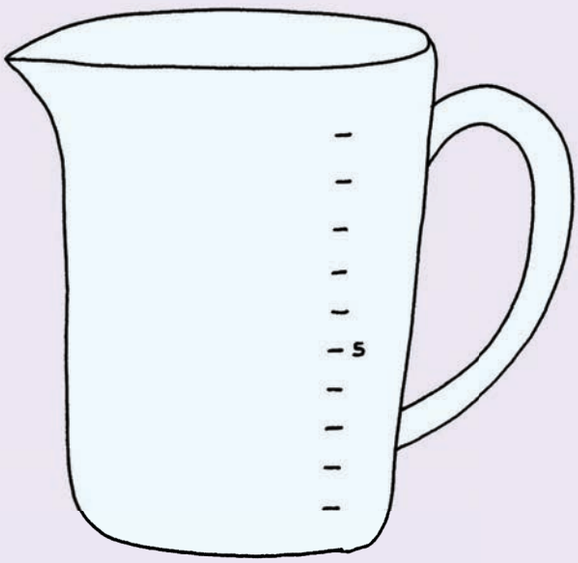




Ṅwalani inthevaḽa (zwikhala) dzi re kha dzhege iyi. Ro ni sumbedza nthihi.



Arali khaphu nthihi i tshi ḓadza dzhege u swika kha inthevaḽa 2; hu ḓo ṱoḓea khaphu nngana uri ni ḓadze dzhege u swika kha:

a. 4 _____

b. 6 _____

c. 8 _____

d. 10_____



Itani thiki kha zwifaredzi zwine na vhona u nga zwi hwala I ḽitha ya zwiluḓi ni zwi nambatedze ni tshi thoma kha zwiṱukusa u swika kha zwihulwanesa.















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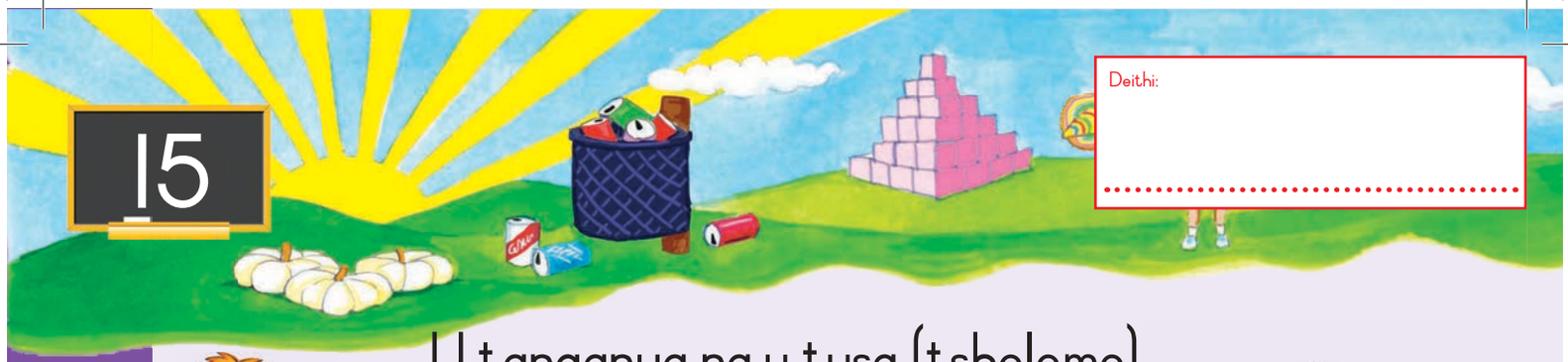


15

Deithi:

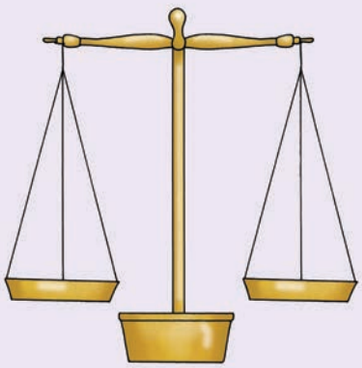
.....

Themo ya 1

U ṱanganya na u ṱusa (tsheleme)



Kha ri kale tshileme tshashu!



Kha u wana tshileme tshashu, uri ri lemela kana u leluwa zwingafhani, ri shumisa tshikalo.

Ri kala tshileme nga dzikhilogireme.
Ri shumisa abiriviesheni iyi: kg. Ndi nnyi a no lemelesa?



41 kg



38 kg



41 kg



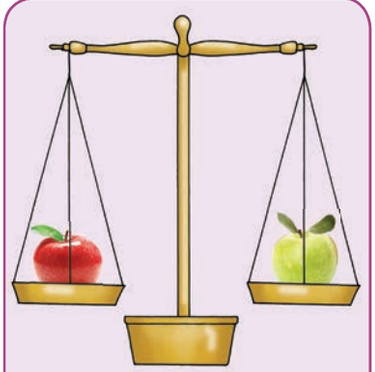
42 kg



39 kg

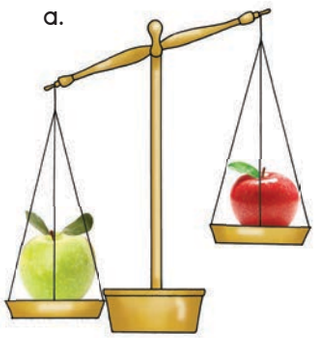


Ri shumisa tshikalotshilinganyisi (tsha balantsi) kha u kala tshileme.

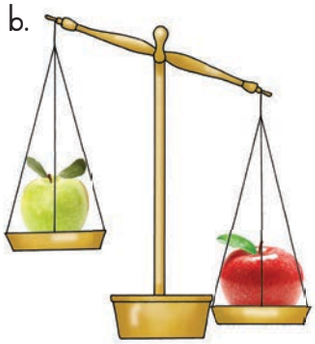


Ndi kha tshikalo tshifhio hune maapula vhuvhili hao a lemele u fana?

a.



b.



Fhindulani mbudziso. Ṅwalani a kana b.
Ndi kha tshikalo tshifhio hune apula ḽidala ḽa lemelesa u fhira apula ḽitswuku? Ndi kha tshikalo tshifhio hune apula ḽitswuku ḽa lemelesa u fhira apula ḽidala?

☐
☐



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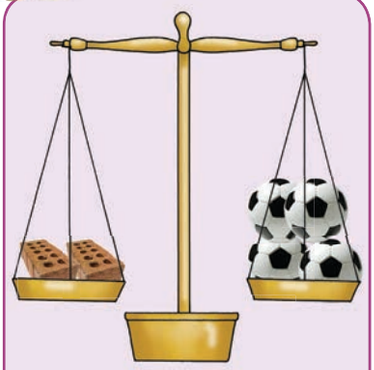
Linganyisani zwikalo

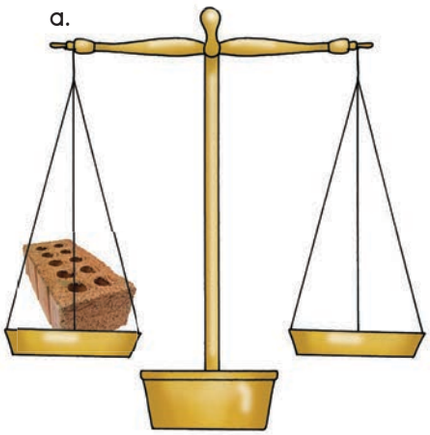
Ro dzula ro ni itela ya u thoma.



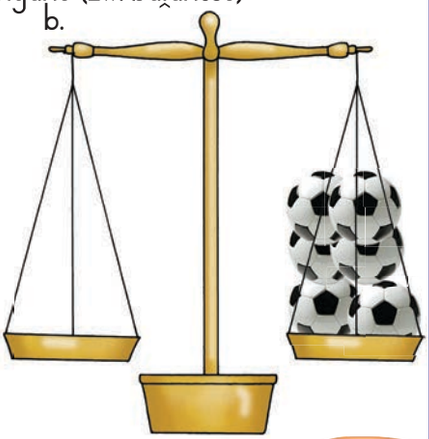
Zwidina zwivhili zwi lemela u fana na bola nn̯a.

Olani uri hu t̯od̯ea zwidina zwingana kana bola nngana kha u ita uri zwikalo izwi zwi lingane (zwi bal̯antse)

a.



b.





Arali phasela nthihi i tshi lemela 3kg. Dza..... dzi d̯o lemela mini?

a. Phasela dza 2 _____

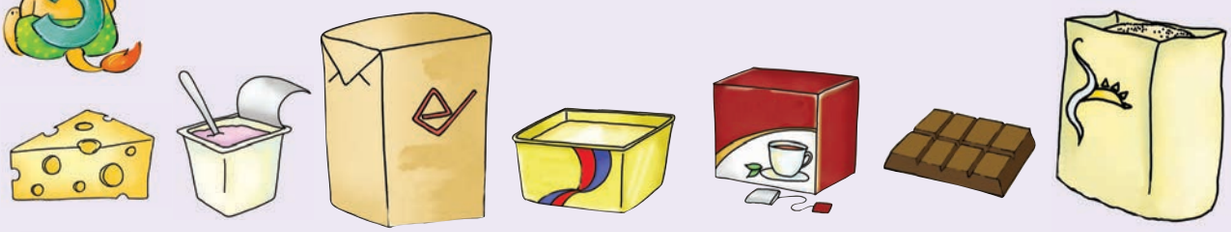
b. Phasela dza 3 _____

c. Ndi nga kona u kala phasela dza 4 nga luthihi kha itshi tshikalo tsha khishini? _____

Ngani? _____

_____

Itani thiki kha zwifaredzi zwi no hwala phakhethe dza 1 kg,



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16

Deithi:

U shumisa data



Zwienda kiḽasini



Vhalani tshiṱori

Thabo: Ndi zwavhuḓi, mufumakadzana! Jack ndi muswonḓa!
U ambara saizi 6 ya zwienda!

Mufumakadzi: Zwo luga! Yoo, Thabo, saidzi iyo yo hulesa kha muthu wa miṅwaha ya ṱahe!
Thabo, inwi ni ambara saizi ifhio ya tshienda? Ndi saizi ifhio ine vhaṅwe vhoṱhe kiḽasini vha ambara? Kha ri ite ṱhoḓisiso!

Vhagudi vha nga bula saizi dzavho nga muthihi nga muthihi.

Mufumakadzi Vho Khoza vha ṅwala saizi kha bodo ya u ṅwalela.

Mufumakadzi: Vhalani, ni kone u ṅwala uri saizi iṅwe na iṅwe yo ṅwalwa lungana kha thebuḽu.

2	2	3	1	2	3	1	4	3	2	3
2	3	2	6	2	2	3	3	3	4	3
4	2	2	3	3	5	3	2	2	2	1
1	1	2	4	2	3	2	3	4	2	4
4	3	2	2	3	1	2	2	1	4	3

Ḓadzani thebuḽu i re afho fhasi.

Saizi dza zwienda zwi re kiḽasini					
Saizi 1	Saizi 2	Saizi 3	Saizi 4	Saizi 5	Saizi 6

1 2 3 4 5 6 7 8 9 10

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Zwino olani girafu ya zwifanyiso (phikhithogirafu)

 = mugudi muthihi

					
Saizi 1	Saizi 2	Saizi 3	Saizi 4	Saizi 5	Saizi 6



Zwino fhindulani mbudziso idzi.

a. Vhagudi vhanzhi vha ambara zwienda zwa saizi _____.

b. Tshivhalo tshiṱukusa tshi ambara saizi _____.

c. Vhana vha_____ vho shela mulenzhe kha ṱhoḓisiso iyi.



Zwino inwivho?

Wanani uri ndi saizi dzifhio dza zwienda dzine inwi na khonani dzaṋu na ambara!

- Shumani nga tshigwada tsha vhana vha 6 u swika kha 8.
- Kuvhanganyani data yaṋu.
- Ṅwalani tshivhalo tsha saizi dza zwienda kha thebuḽu.
- Vhambedzani phindulo dzaṋu na zwiṅwe zwigwada.



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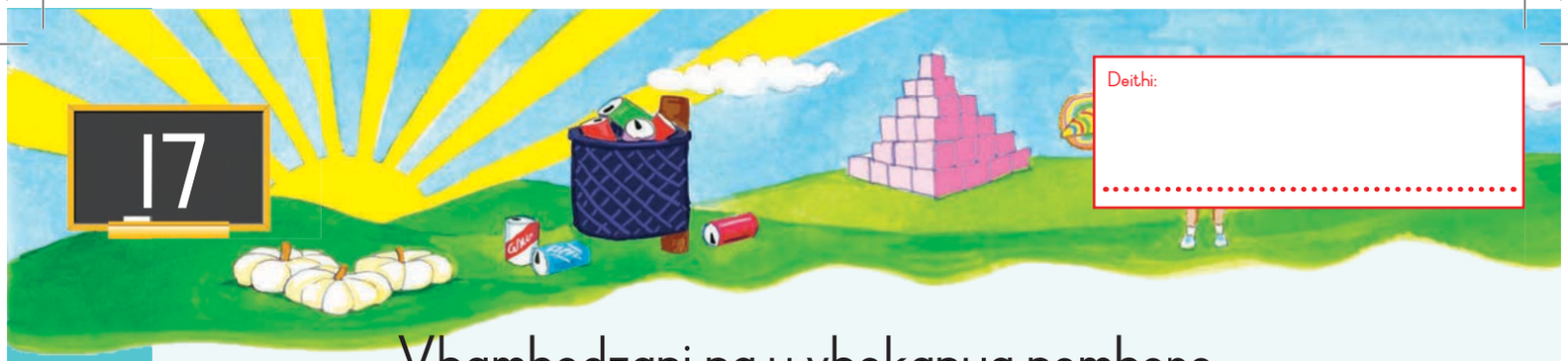


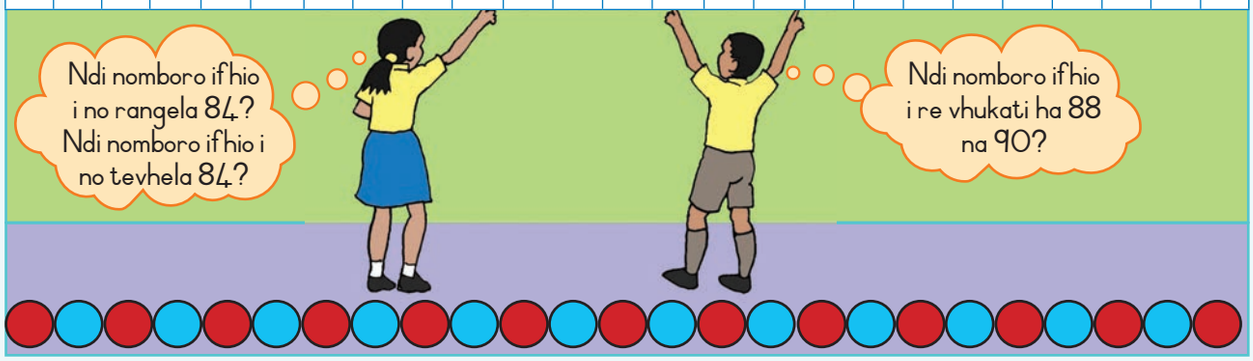
17

Deithi:

Themo ya 1

Vhambedzani na u vhekanya nomboro

75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99





Dzhenisani nomboro dzi no khou ṱahela.

51									
						67			
71									
									100

Shumisani bodo ya nomboro kha u fhindula mbudziso.

- Ndi nomboro ifhio i no rangela 68? _____
- Ndi nomboro ifhio i no tevhela 68? _____
- Ṅwalani nomboro ṱhanu ṱhukhu kha 71_____, _____, _____, _____, _____
- Ṅwalani nomboro ṱhanu dzi re khulwane kha 71. _____, _____, _____, _____, _____
- Ndi nomboro dzifhio dzi re vhukati ha 79 na 84? _____
- Ṅwalani nomboro idzi dzi tshi bva kha ṱhukhusa dzi tshi ya kha khulwanesa. 73, 52, 50, 59, 61

  _____
- Ṅwalani nomboro idzi dzi tshi bva kha khulwanesa dzi tshi ya kha ṱhukhusa. 74, 96, 99, 91, 38

  _____

1 2 3 4 5 6 7 8 9 10

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Fhedzisani thebuḽu. Ni thome nga nomboro ye na ṋewa.

	nnzhi nga nthihi	ṱhukhu nga nthihi	nnzhi nga fumi	ṱhukhu nga fumi
25				
39				
74				
56				
40				



Tangedzelani nomboro khulwanesa

78	87	17	36	63	33

Tangedzelani nomboro ṱhukhusa

99	19	9	14	41	40



Arali < i tshi amba ṱhukhu kha; nahone > i tshi amba khulwane kha; fhedzisani

32 [<] 64 23 [>] 18

57 [ ] 98 89 [ ] 57



Wanani nomboro dza 5 kha gurannḍa dzi re vhukati ha 50 na 99 ni dzi nambatedze hafha. Nomboro iṅwe na iṅwe i amba mini?

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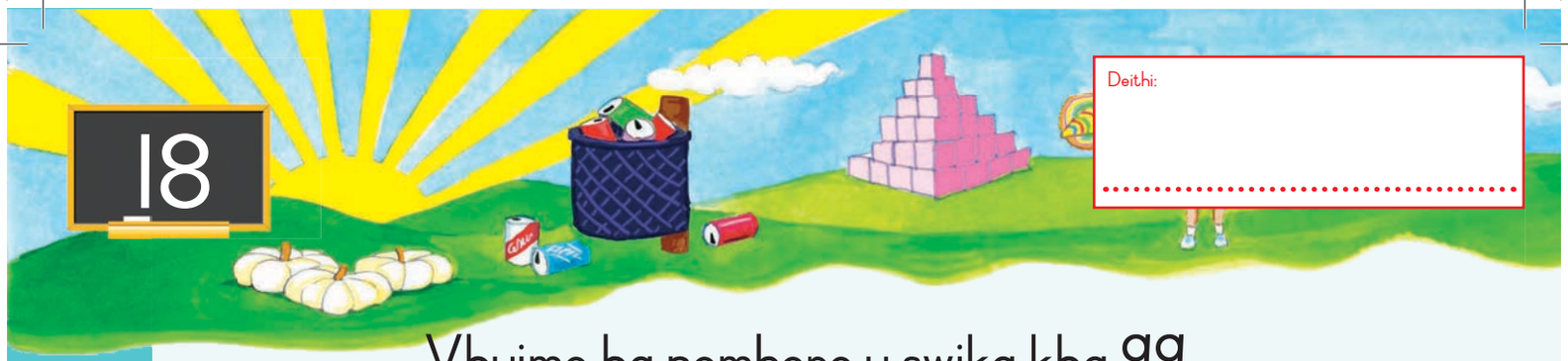


Deithi:

.....

Vhuimo ha nomboro u swika kha 99

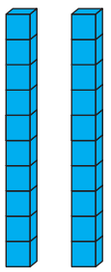


U sumbedza nomboro ni tshi shumisa zwithu

Ri a kona u sumbedza nomboro nga zwibuḽoko zwa vhuimo ha nomboro.

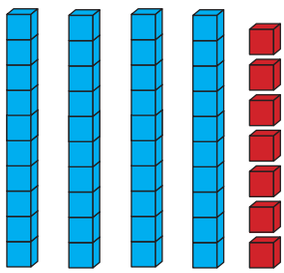
Tshibuḽoko tshiṱuku tshi imela 1. Ndi **yuniti**.

Rodo ya zwibuḽoko zwiṱuku zwa 10 i imela 10. Ndi **10**.

Mahumi	Yuniti
	

Ni nga sumbedza nomboro ni tshi shumisa mahumi na yuniti.

Ni nga sumbedza 47 nga hei ndila.



Mahumi	Yuniti
4	7

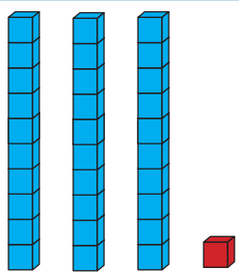
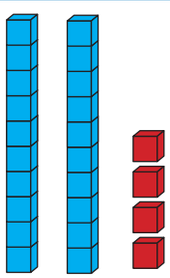
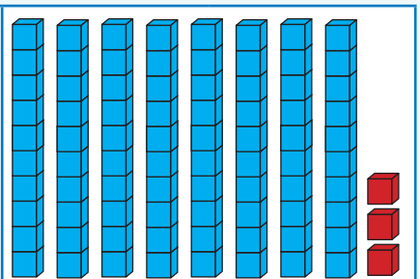
fuiṋasumbe

47



U ṅwala nomboro nga dzididzhiti na maipfi

a. Nga fhasi ha tshifanyiso, ṅwalani uri hu na mahumi mangana na uri hu na yuniti nngana.
Ni kone u ṅwala nomboro nga zwiga na maipfi.

					
Mahumi	Yuniti	Mahumi	Yuniti	Mahumi	Yuniti
3	1				
31 furaruthihi		_____ _____		_____ _____	

1 2 3 4 5 6 7 8 9 10

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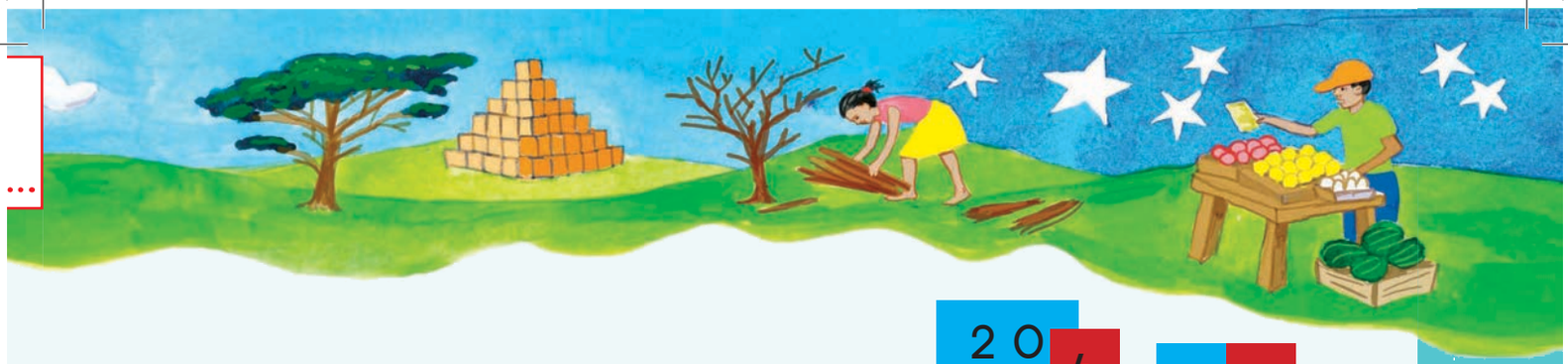


2 0 6

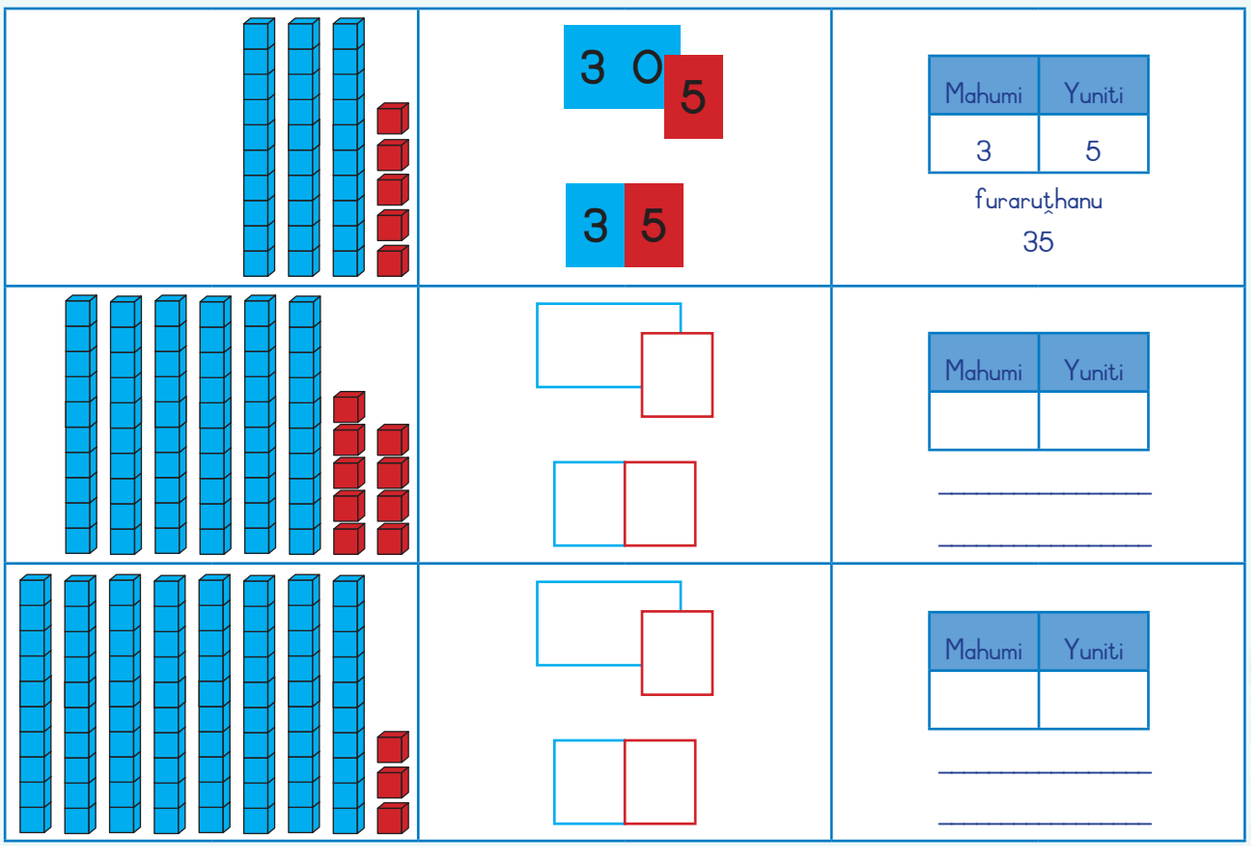
2 6

b. Ri nga kha ḓi shumisa na garaṱa dza nomboro kha u zwi sumbedza.

Nomboro	Ndi maḓana mangana?	Hu na yuniti nngana?	Ṅwalani nomboro nga maipfi
26	2	6	Fumbilirathi
46			
99			



Nomboro ndi ifhio?



3 0 5

3 5

Mahumi	Yuniti
3	5

furaruṱhanu

35

Mahumi	Yuniti

Mahumi	Yuniti

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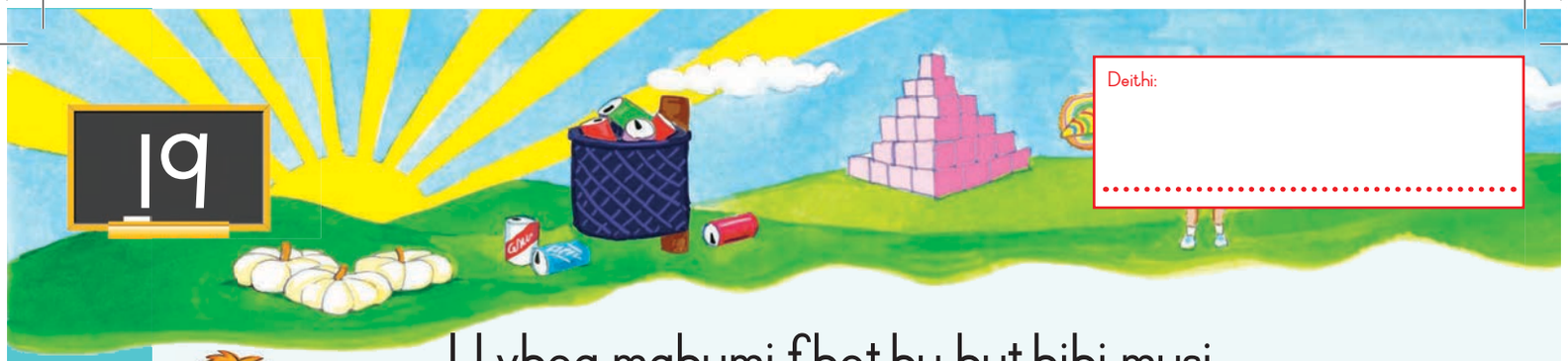

19

Deithi:

.....



U vhea mahumi fhethu huthihi musi ri tshi ṱanganya na 99

Iṅwe ndila ya u sumbedza 22 khei.

Mahumi	Yuniti

fumi I nthihi dza I2

10 10 2

Hu na yuniti dza I2.
Ri ḓo vhea I0 wadzo kha tshigwada.

Ri ḓo vhea yuniti dza I0 kha tshigwada

Zwino ri na iṅwe ndila ya u sumbedza 22.

Mahumi	Yuniti

mahumi 2 nthihi 2

2 2

Kha ri ṱanganye 27 + 4. Zwibuḽoko zwa lutombo ndi zwone zwine ra thoma ngazwo. Zwa pinki ndi zwone zwine ra khou ṱanganyisa khazwo.

27 ndi mahumi a 2 na yuniti dza 7.
Ra kona u ṱanganya yuniti dza 4.

Mahumi	Yuniti

2 wa mahumi yuniti dza 7 + yuniti dza 4

2 0 7 4

Ri na mahumi a 2 na yuniti dza II.

Mahumi	Yuniti

Ri nga sumbedza yuniti dza I0 sa fumi nthihi

2 0 I 0 I

Zwino ri na
Mahumi 3 + yuniti I = 3I

Mahumi	Yuniti

__ + __ = ___

3 I



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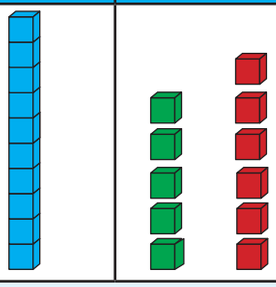
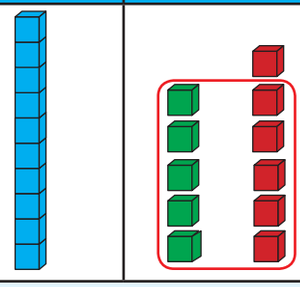
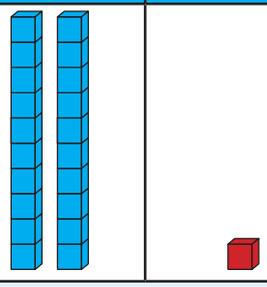
Ṅwalani fhungombalo ḽo sumbedzwaho nga tshifanyiso

Mahumi	Yuniti
	

10 + 5 + 6

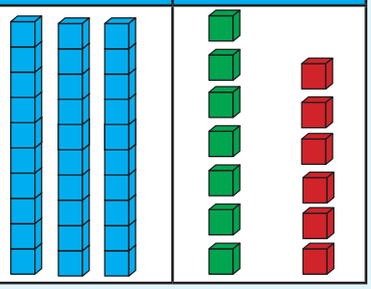
Mahumi	Yuniti
	

___ + ___ + ___

Mahumi	Yuniti
	

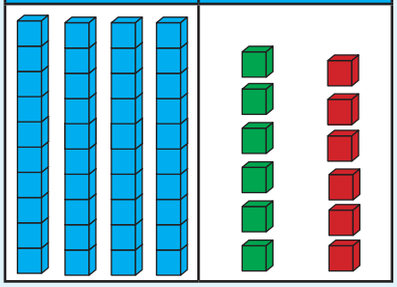
___ + ___ = ____

Fhedzisani zwifanyiso. Ṅwalani mafhungombalo a re tshifanyisoni.

Mahumi	Yuniti
	

Mahumi	Yuniti

Mahumi	Yuniti

Mahumi	Yuniti
	

Mahumi	Yuniti

Mahumi	Yuniti

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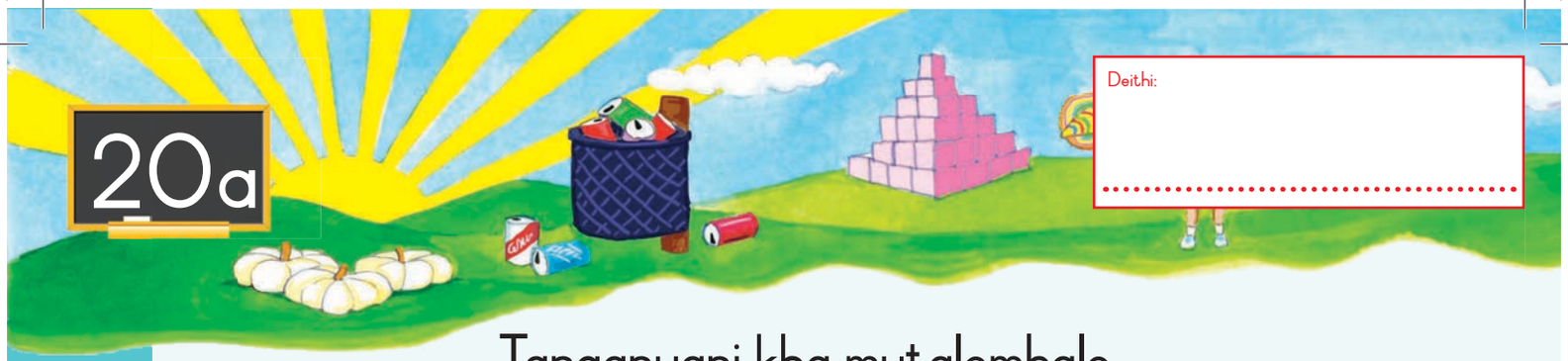


20a

Deithi:

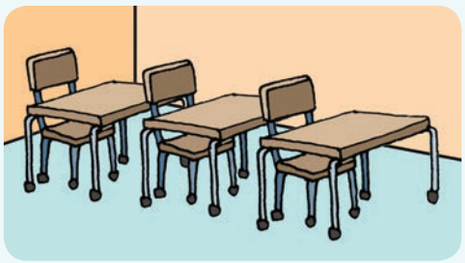
.....

Ṱanganyani kha mutalombalo

Themo ya 1

Dzulani desikeni yaṋu!

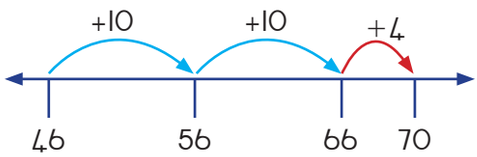
Tshikoloni tshashu mugudi muṅwe na muṅwe u na desike yawe.
Hu na vhagudi vha 46 kha Gireidi 3A na vha 24 kha Gireidi 3B.
Ndi desike nngana dzine ra ṱoḓa kiḽasini vhuvhili hadzo?



Shumani na muṅwe nga inwi

Lavhelesani uri vhagudi avha vhararu vho shumisa hani mutalombalo kha u tandululula thaidzo.
Fhedzisani mbalo ni tshi shumisa tsumbo iyi.





Zwine nda ita ndi hezwi: Ndi thoma nga u ṱanganyisa 10. Izwi zwi ntswikisa kha 56.
U bva hone nda fhufha iṅwe 10 nda swika kha 66.
Mafhedziseloni, ndi fhufha nga 4 hafhu nda swika kha 70.

Sumbedzani nga garaṱa dzaṋu dza nomboro.

= 46 + 10 + 10 + 4

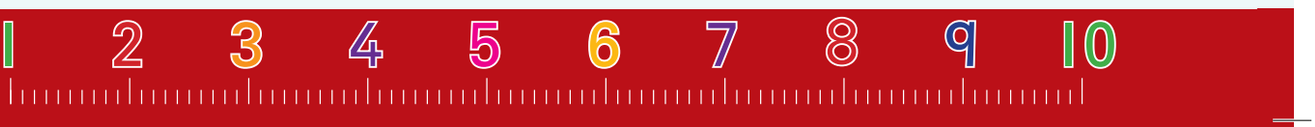
= 56 + 10 + 4

= 66 + 4

= 70



a. 32 + 25 = ☐



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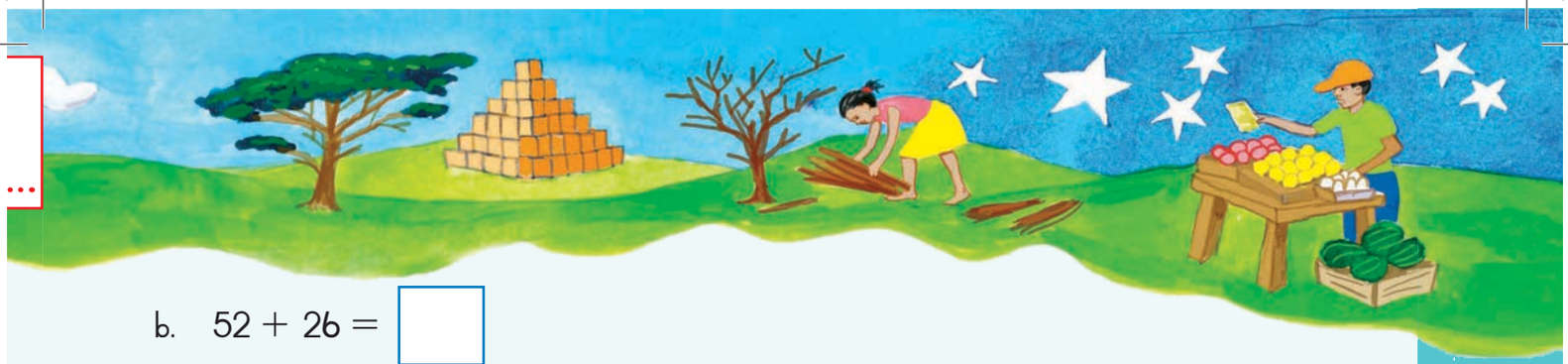
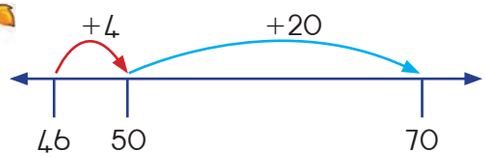


b. $52 + 26 =$ ☐

c. $46 + 25 =$ ☐





Ndi tea u ṱanganya 24 kha 46.



Zwine nda ita ndi hezwi: Ndi thoma nga u fhufha 4. Zwi ḓo ntswikisa kha 50. Ndi pfuka nga 20 hafhu, zwa ntswikisa kha 70.

Sumbedzani nga garaṱa dzaṋu dza nomboro.

$= 40 + 10 + 20$

$= 50 + 20$

$= 70$

a. $36 + 41 =$ ☐

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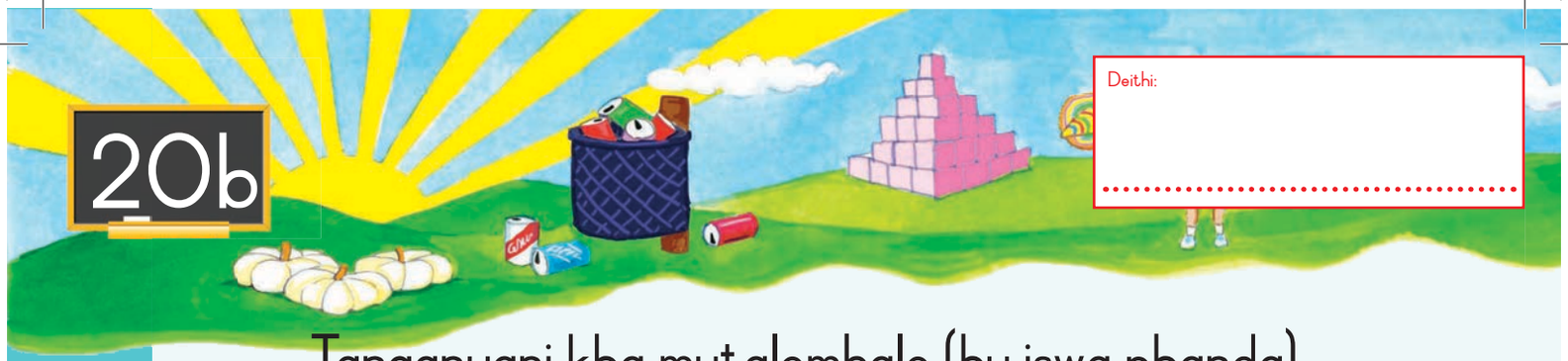


20b

Deithi:

.....

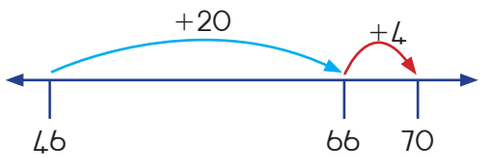
Ṱanganyani kha mutalombalo (hu iswa phanḓa)

Themo ya 1

b. $57 + 19 =$ ☐







Ndi tea u ṱanganya 24 kha 46.



Zwine nda ita ndi hezwi: U bva kha **46**, ndi fhufha nga 20. Zwi ntswikisa kha **66**. Zwino ndi tea u fhufha nga 4 nda kona u swika kha 70.

Ri nga kha ḓi shumisa na garaṱa dza nomboro

$= 46 + 20 + 4$

$= 66 + 4$

$= 70$

a. $63 + 24 =$ ☐



b. $65 + 29 =$ ☐





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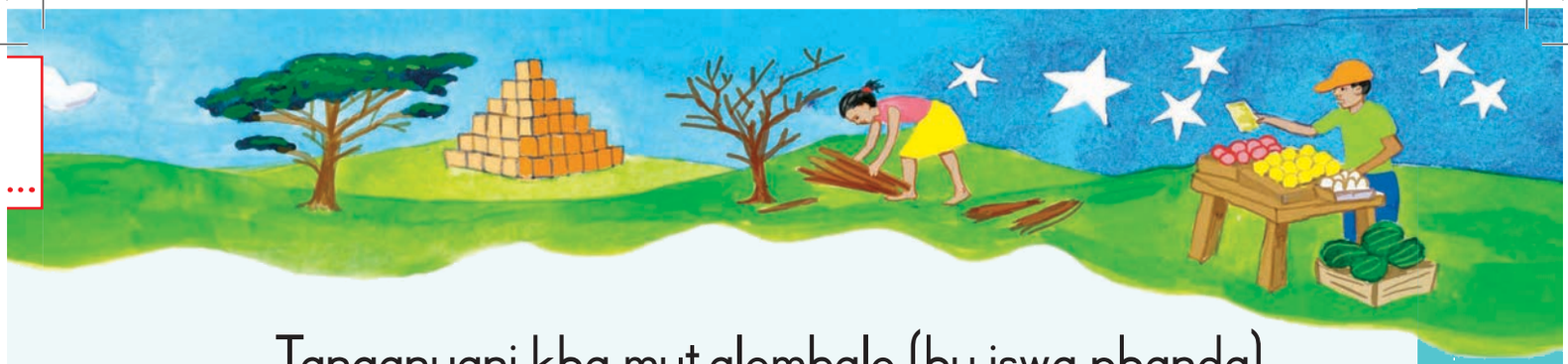

Ṱanganyani kha mutalombalo (hu iswa phanḓa)

Ndi ḽofo nngana?

Mubaki u ḓisa ḽofo dza 54 dza burauni  na dza 68 tshena  .

Ndi ḽofo nngana dzo ṱangana dzoṱhe?

a. Wanani ṱhanganyelo kha mutalombalo. Sumbedzani nomboro na saizi dza kuf huf hele.

Ṱanganyani zwi tevhelaho. Shumisani ndila yaṋu. Shumisani ngona (ndila) iṅwe na iṅwe ine na funa.

38 + 24 =

58 + 17 =

75 + 16 =

83 + 29 =

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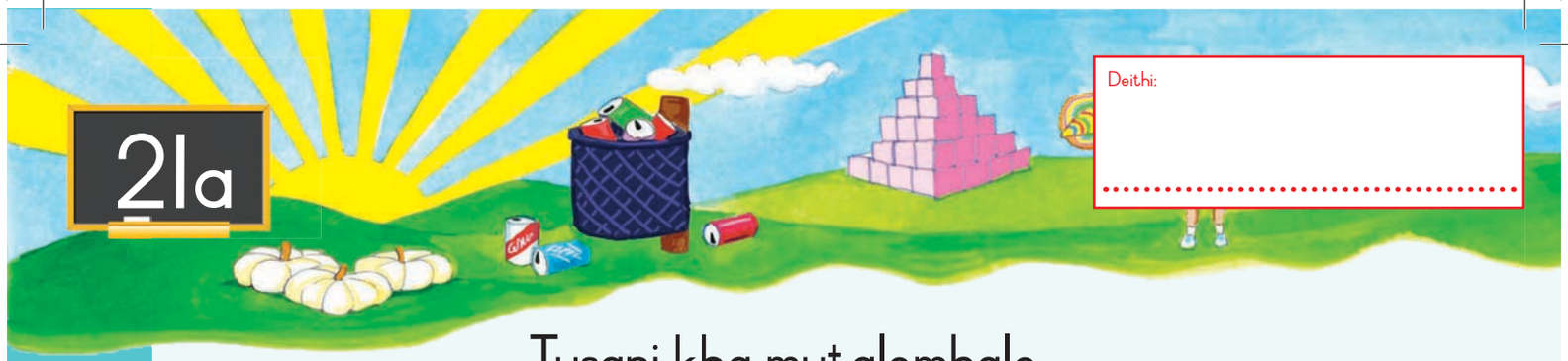


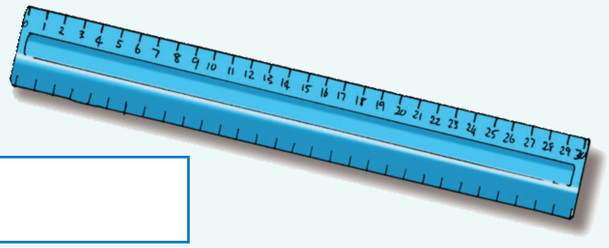
21a

Deithi:

Themo ya 1

Ṱusani kha mutalombalo

Mugudi muthihi! Ruḽa nthihi!



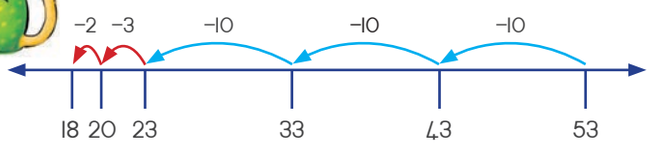
Kiḽasi i ṱoḓa ruḽa dza 53. Ri na dza 35 fhedzi.

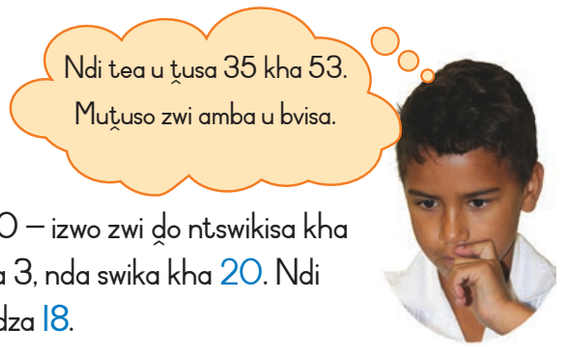
Ndi nngana dzine ra dzi ṱoḓa? 53 – 35 =

Shumani na muṅwe nga inwi

Vhalani uri vhagudi vhararu vhenevhaḽa vhathihi vha shumisa hani mutalombalo afha. Fhedzisani ṱhanganyelo ni tshi shumisa tsumbo.







Ndi ḓo thoma kha 53 nda ṱusa. Ndi ḓo bvisa 10, 10, 10 – izwo zwi ḓo ntswikisa kha 23. Zwino ndi tea u bvisa ṱhanu, ndi thoma nga u ṱusa 3, nda swika kha 20. Ndi ṱusa hafhu 2 nda wana 18. Zwi amba uri ri ṱoḓa ruḽa dza 18.

= 53 – 10 – 10 – 10 – 3 – 2

= 43 – 10 – 10 – 3 – 2

= 33 – 10 – 3 – 2

= 23 – 3 – 2

= 20 – 2

= 18

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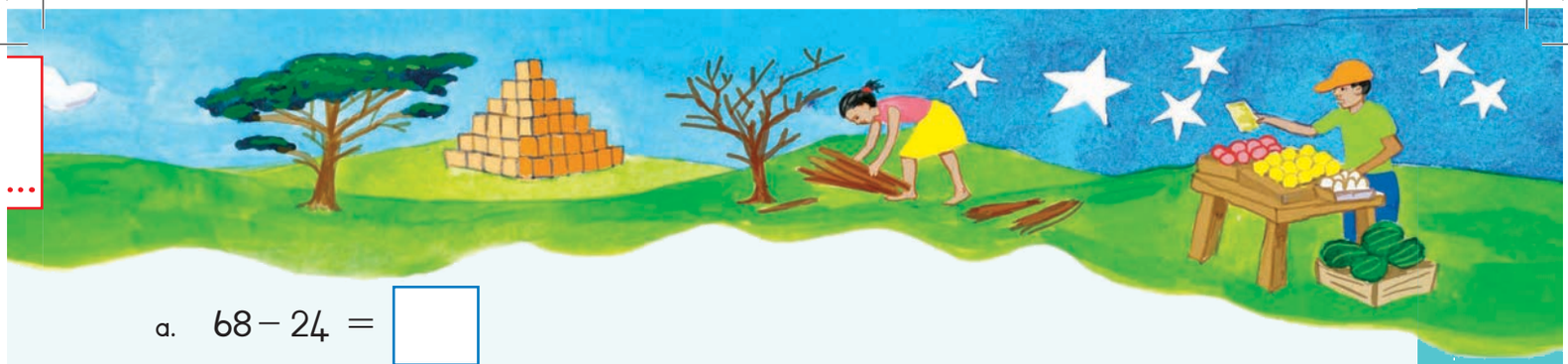
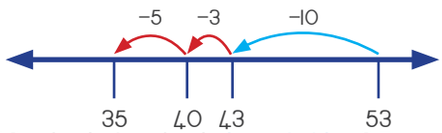


a. $68 - 24 =$ ☐

b. $74 - 38 =$ ☐

c. $92 - 87 =$ ☐





Mu ṱ uso zwi amba uri wanani phambano vhukati ha 53 na 35.



Ndi ḓo thoma kha 53 nda vhala ndi tshi humela kha 35 uri ndi wane phambano. Arali nda vhala ndi tshi humela murahu nga 10, ndi swika kha 43. Ndi nga vhala ndi tshi humela murahu nga 3 haf'hu u swika kha 40. U bva af'ho nda vhala ndi tshi humela murahu nga 5 haf'hu u swika kha 35.

10 ra ṱ anganya na 3 ra ṱ anganya na ṱ hanu ndi 18. Zwi amba uri ri ṱ oḓ a ru ḽ a dziṅwe dza 18.

a. $38 - 14 =$ ☐

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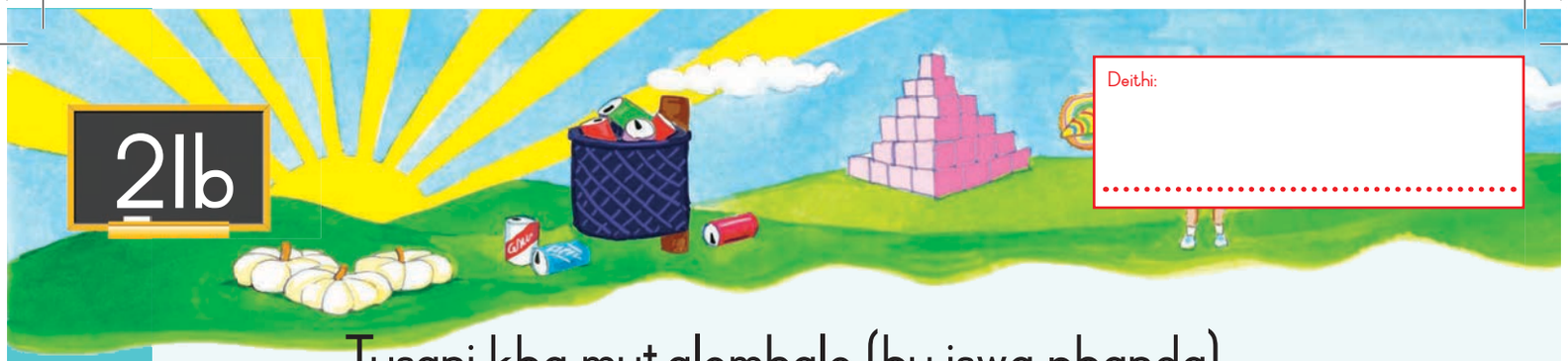


21b

Deithi:

Themo ya 1

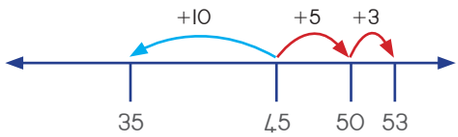
Ṱusani kha mutalombalo (hu iswa phanḓa)

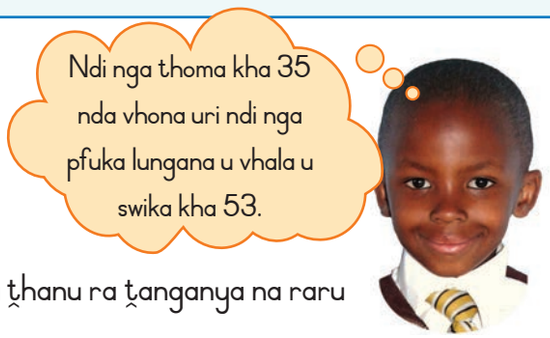
b. $65 - 43 =$ ☐

c. $72 - 39 =$ ☐

d. $85 - 48 =$ ☐







Ndi nga thoma kha 35 nda vhona uri ndi nga pfuka lungana u vhala u swika kha 53. Fumi ra ṱanganya na ṱhanu ra ṱanganya na raru ndi 18. Ri ṱoḓa ruḽa dziṅwe dza 18.

a. $84 - 32 =$ ☐

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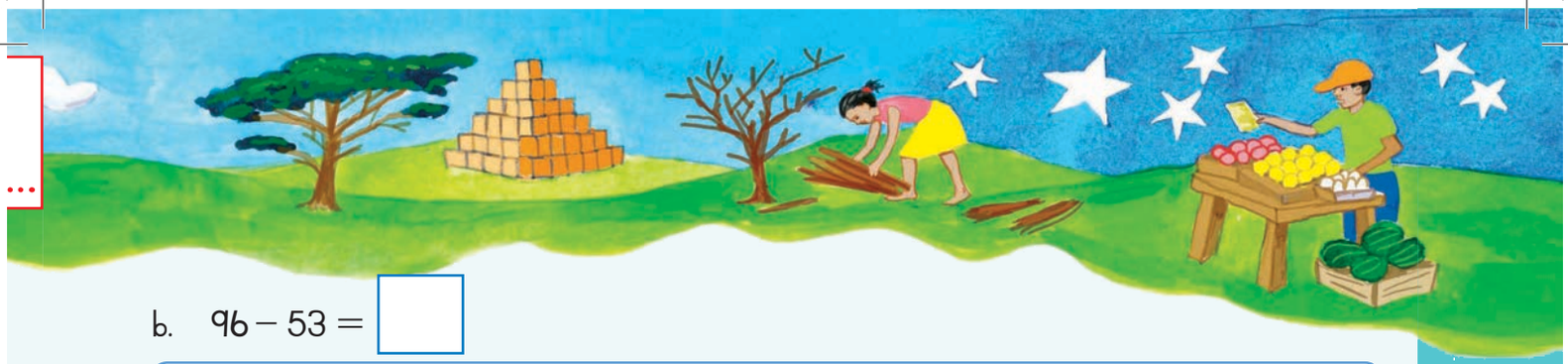

b. 96 – 53 = ☐

c. 78 – 19 = ☐

d. 63 – 47 = ☐

U tshimbila nga thekhisi



Lwendo lwa u ya ḓoroboni nga thekhisi ndi km dza 65.

U swika zwino thekhisi yo tshimbila km dza 38.

Ho sala tshikhala tshingafhani?

Shumisani mutalombalo kha u tandulula thaidzo iyi. Ni nga ṱusa, u vhala ni tshi ya phanḓa kana murahu. Ḽeibeḽani he na fhufha na nomboro kha mutalombalo.

km

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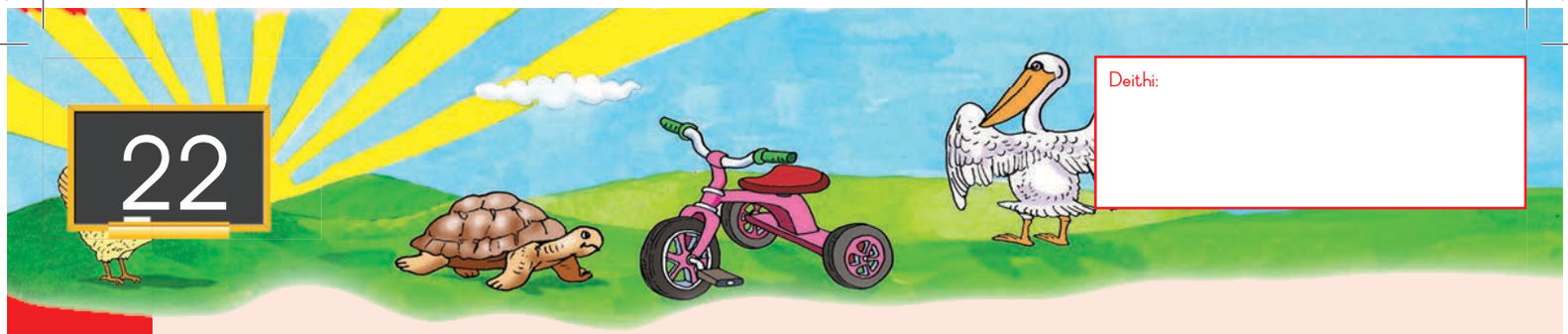

22

Deithi:

Themo ya 1

Ndi tshifhinga tsha phathi



Pulane ya u thoma!

Busi u humbela khonani dzawe uri dzi khethe zwiḽiwa zwa phathi zwine vha zwi funesa. Hezwi ndi zwe a kuvhanganya. Mu thuseni u vhekanya.



Vhalani, ni ṅwale uri ndi khonani nngana dzo nangaho lushaka luṅwe na luṅwe lwa zwiḽiwa.

				
Nomboro				



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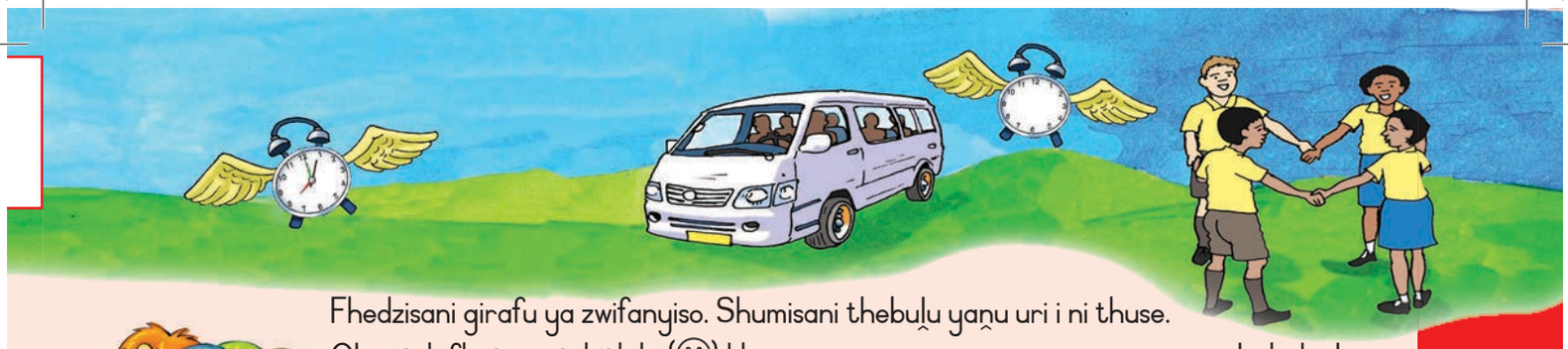



Fhedzisani girafu ya zwifanyiso. Shumisani thebuḽu yaṉu uri i ni thuse.
Olani tshifhaṱuwo tshithihi (☺) kha ṅwana muṅwe na muṅwe ane a nanga lushaka lwo raloho lwa tshiḽiwa kana tshinwiwa.

☺			
☺			
☺			
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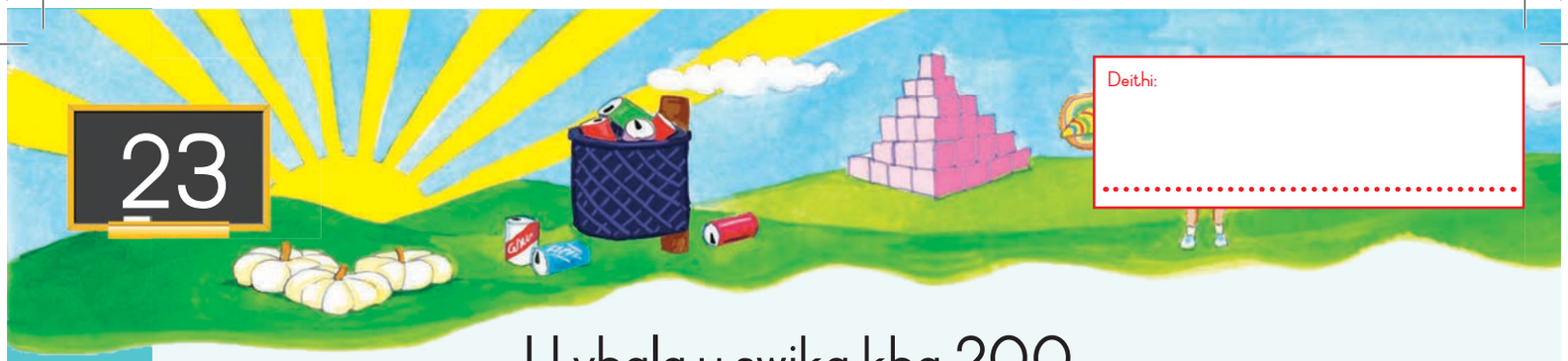

23

Deithi:

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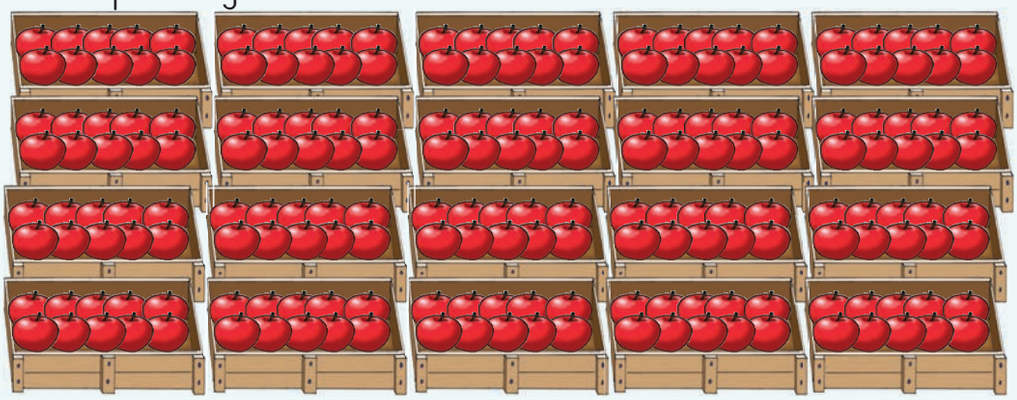
U vhala u swika kha 200



Ndi maapula mangana ane na kona u a vhona?



Dzhenisani nomboro

Bogisi ḽa 1 ḽi na maapula a ____ Rou ya 1 i na maapula a ____

Rou ya 1 i na mabogisi a ____ Rou dza 4 dzi na maapula a ____



Hu na maapula a 10 bogisini ḽiṅwe na ḽiṅwe. Ndi maapula mangana a re hone?

a. ____

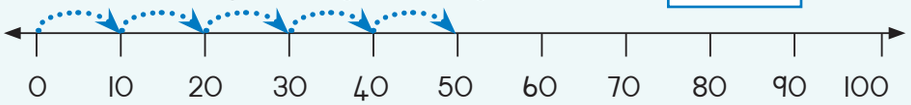
b. ____

c. ____

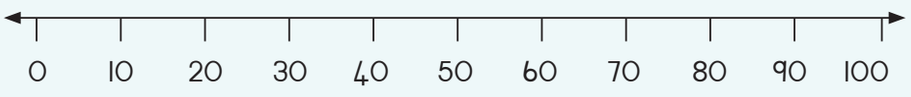


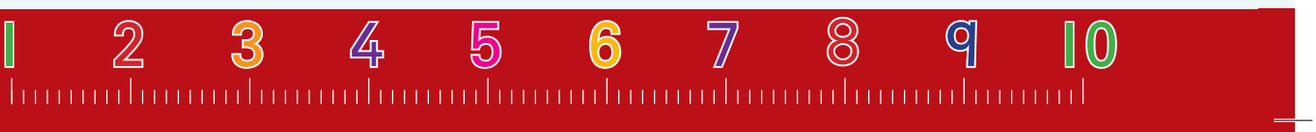
Zwisumbedzeni kha mutalombalo.

a. Hu ḓo vha na maapula mangana mabogisini maṱanu? ____



b. Hu ḓo vha na maapula mangana mabogisini a sumbe? ____





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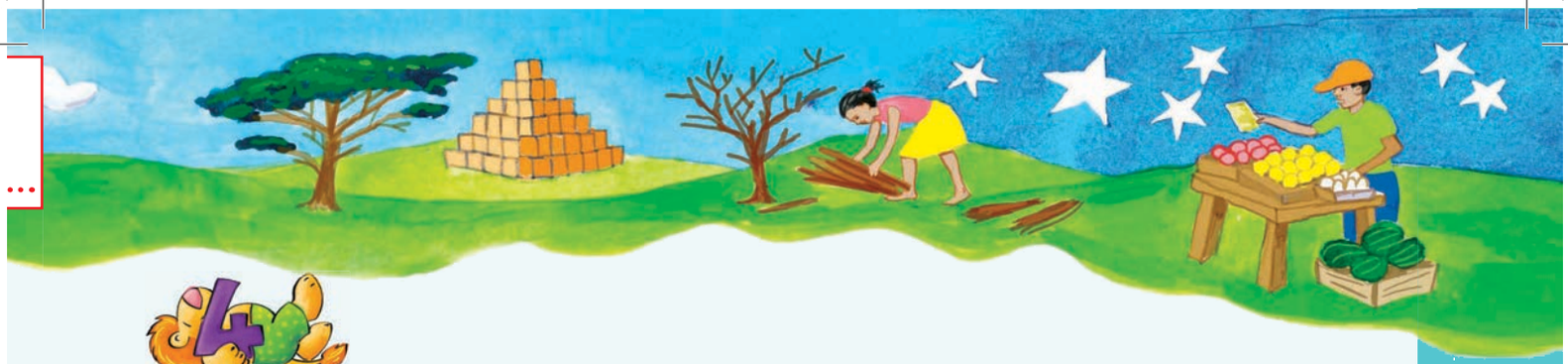

zwiṱhopho (lṱoto) zwa 3 zwa 10 zwi ita – 3 × 10 = 30 kana 10 × 3 = 30

zwiṱhopho zwa 5 zwa 10 zwi ita – ☐ × ☐ = ☐ kana ☐ × ☐ = ☐

zwiṱhopho zwa 2 zwa 10 zwi ita – ☐ × ☐ = ☐ kana ☐ × ☐ = ☐

Phere dza 5 dza milenzhe.
Hu na zwikunwe zwingana zwo ṱangana zwoṱhe?



10 + 10 + 10 + 10 + 10 = 50 5 × 10 = ☐

kana 10 × 5 = ☐

Shumisani ndila yeneyi kha u shuma hedzi.

Phere dza 4 dza ṋayo. Hu na zwikunwe zwingana zwo ṱangana zwoṱhe?

_____ = ☐ ____ × ____ = ☐ kana ____ × ____ = ☐

Phere dza 3 dza ṋayo. Hu na zwikunwe zwingana zwo ṱangana zwoṱhe?

_____ = ☐ ____ × ____ = ☐ kana ____ × ____ = ☐

Kha ri vhale (vhalele)

10, 20, 30, 40, 50, ____, ____, ____, ____, ____,

____, ____, ____, ____, ____, ____, ____, ____, ____, 200

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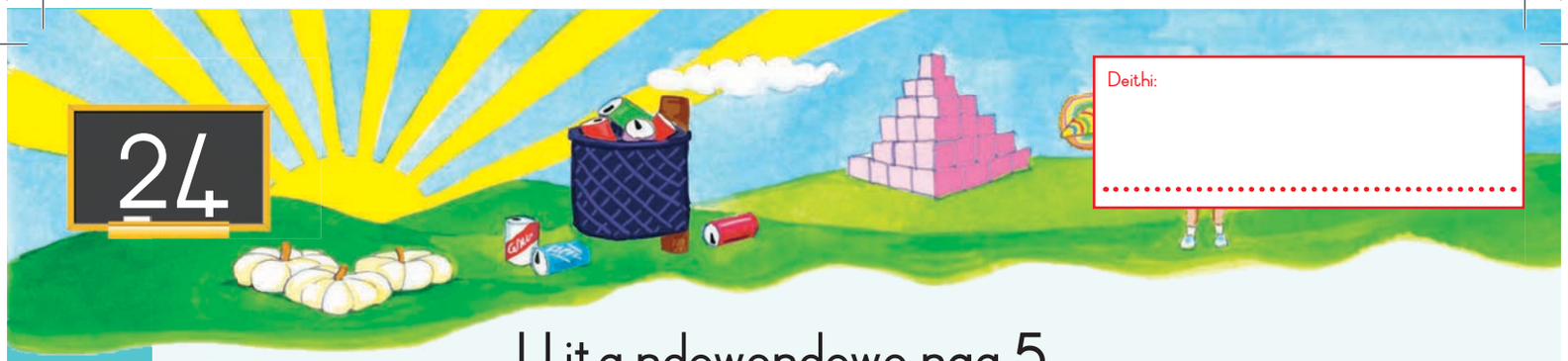


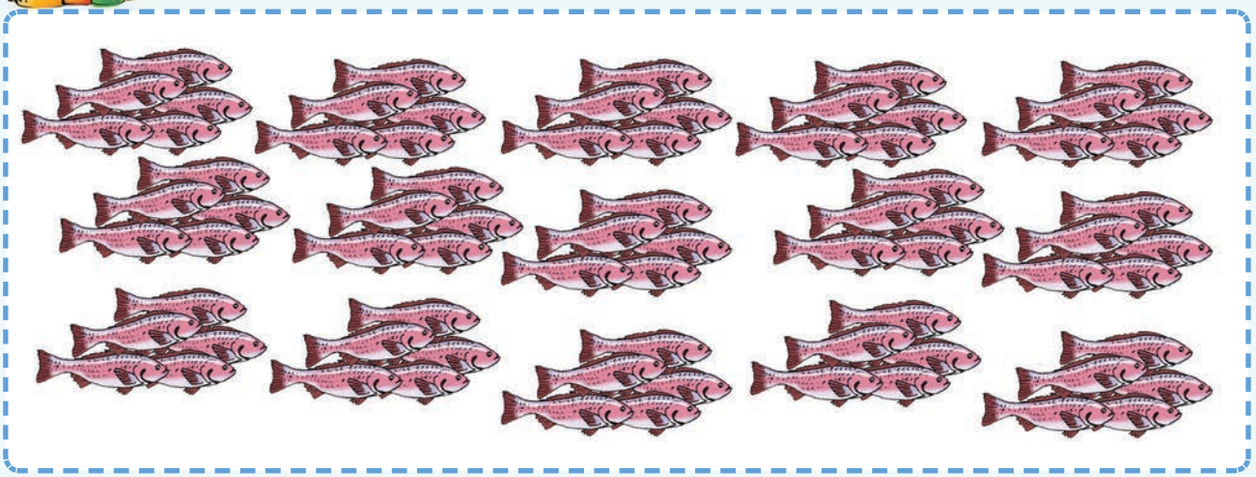
24

Deithi:

U ita ndowendowe nga 5



Hu na khovhe nngana? Anganyelani



Zwino vhalani khovhe. Wanani ṱhanganyelo.



Vhalani nga 5

Wanani ṱhanganyelo yoṱhe ya makumba a khovhe. Ṅwalani fhungombalo ḽa + na ×. Ro ni itela ya u thoma.

Khovhe na makumba	Hu na makumba mangana o ṱangana oṱhe?	
Khovhe dza 5, iṅwe na iṅwe i kudzela makumba a 2	2 + 2 + 2 + 2 + 2 = 10	5 × 2 = 10
Khovhe dza 5, iṅwe na iṅwe i kudzela makumba a 10		
Khovhe dza 5, iṅwe na iṅwe i kudzela makumba a 4		
Khovhe dza 5, iṅwe na iṅwe i kudzela makumba a 3		
Khovhe dza 5, iṅwe na iṅwe i kudzela makumba a 6		
Khovhe dza 5, iṅwe na iṅwe i kudzela makumba a 8		
Khovhe dza 5, iṅwe na iṅwe i kudzela makumba a 5		

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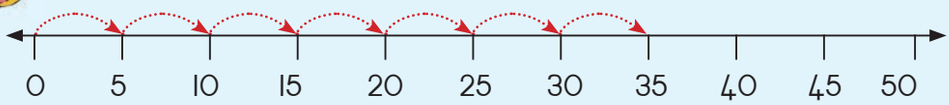
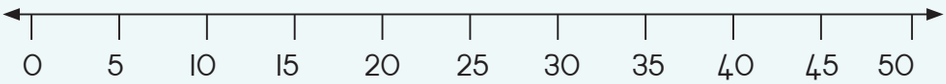
Fhedzisani mafhungombalo na mitalombalo



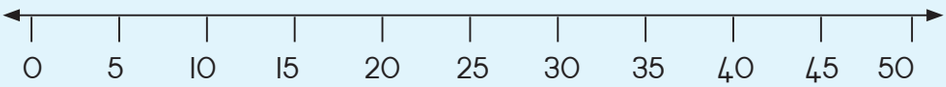
$5 + 5 + 5 + 5 + 5 + 5 + 5 =$ 35 kana 7 × 5 = 35

a.



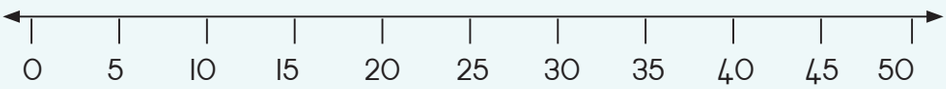
$5 + 5 + 5 + 5 =$ ☐ kana ☐ × ☐ = ☐

b.



$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 =$ ☐ kana ☐ × ☐ = ☐

c.



$\_ + \_ + \_ + \_ + \_ + \_ + \_ + \_ + \_ + \_ =$ ☐ kana $10 \times 5 = 50$

U rea khovhe

Sipho u fasha khovhe dzi re vhukati ha 40 na 50. U dzi vhala nga dzi2 ha vha na ya I yo salaho. U dzi vhala nga dzi5 ha vha na dza 2 dzo salaho. Sipho u fasha khovhe nngana? ☐

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25a

Deithi:

Vhalani nga 2



U vhala masogisi



a. Hu na phere nngana dza masogisi? _____

b. Hu na masogisi mangana? _____

c. Hu na masogisi o salaho? _____

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U vhala phere dza masogisi

Ṅwalani uri hu na phere nngana dza masogisi ni ambe arali hu na o salaho.

Masogisi	Tshivhalo tsha phere	Tshivhalo tsha sogosi	Ho sala sogisi nthihi
			
			
			
			
			



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25b

Deithi:

.....

U vhala nga 2 (u iswa phanḓa)



U fhaṱa phere

Ṅwalani nomboro dza ivini na dza odo u thoma kha 1 u swika kha 60.

a. Ṅwalani nomboro dza ivini dza u thoma kha 1 – 60.

2, 4, 6,

_____

_____

b. Ṅwalani nomboro dza odo dza u thoma kha 1 – 60.

3, 5, 7,

_____

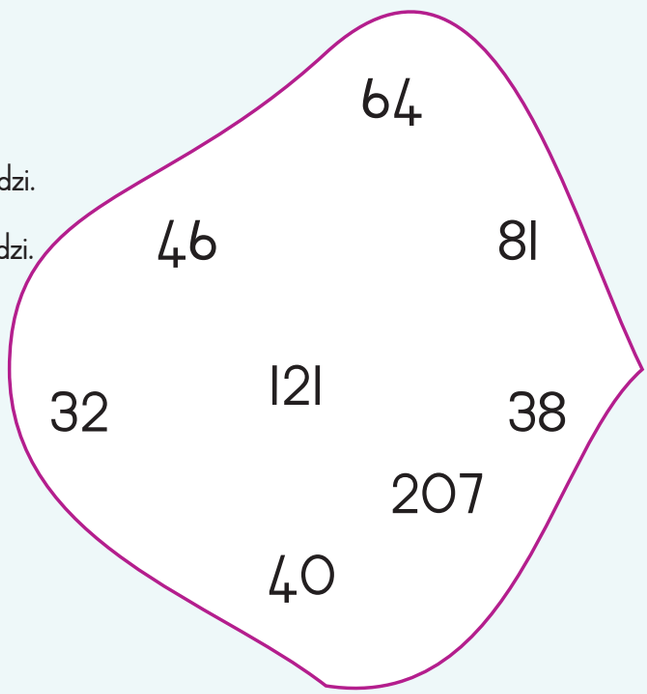
_____



Dziodo na dziivini

Tangedzelani nomboro dza ivini nga zwitendeledzi.

Tangedzelani nomboro dza odo nga zwitendeledzi.





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5 U bva kha phere u ya kha masogisi

Tsumbo:

Sogisi dza 2 = phere ya 1 

$2 \times 1 = 2$

Sogisi dza 20 = phere dza 10

$2 \times 10 = 20$

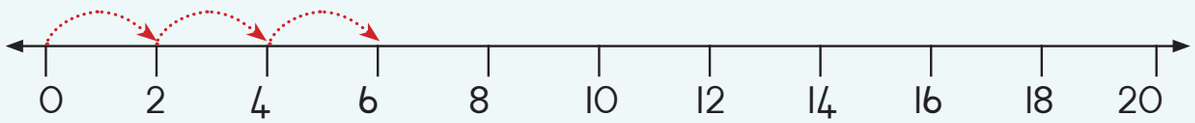
a. Ṅwalani uri ndi masogisi mangana.

Humbulani nga 2	Fhungombalo
1 phere = masogisi a 2	2 × 1 = 2
2 phere = masogisi a _____	2 × 2 =
4 phere = masogisi a _____	
8 phere = masogisi a _____	
9 phere = masogisi a _____	

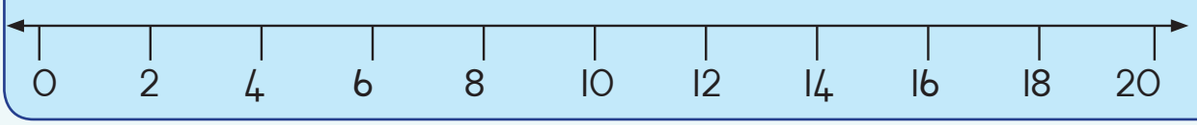
b. Sumbedzani mbalo kha mutalombalo ni fhedzise.

Tsumbo:

$2 + 2 + 2 = 6$ kana $3 \times 2 = 6$



$2 + 2 + 2 + 2 + 2 + 2 + 2 =$ ☐ kana ☐ × ☐ = ☐



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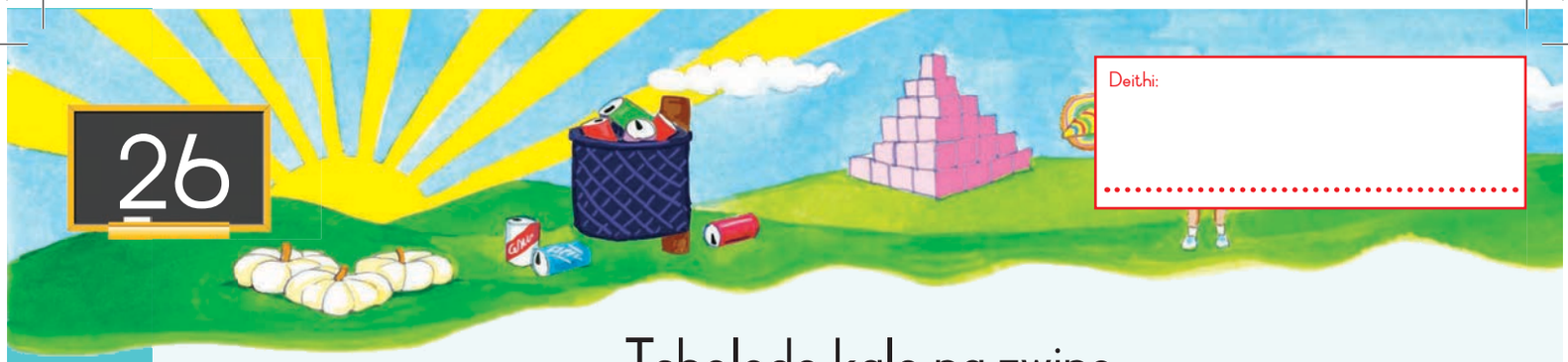

Tshelede kale na zwino



Nganetshelo ya tshelede yashu

Afrika Tshipembe ri shumisa dziranda na masenthe sa tshelede yashu.
Ro thoma u shumisa dziranda na masenthe nga 1961.

Tshifhingani tshenetsho khoini ya senthe 1 yo vha i ṱhukhusa, ha tevhela ya 2 senthe ha kona u ḓa 5 senthe.





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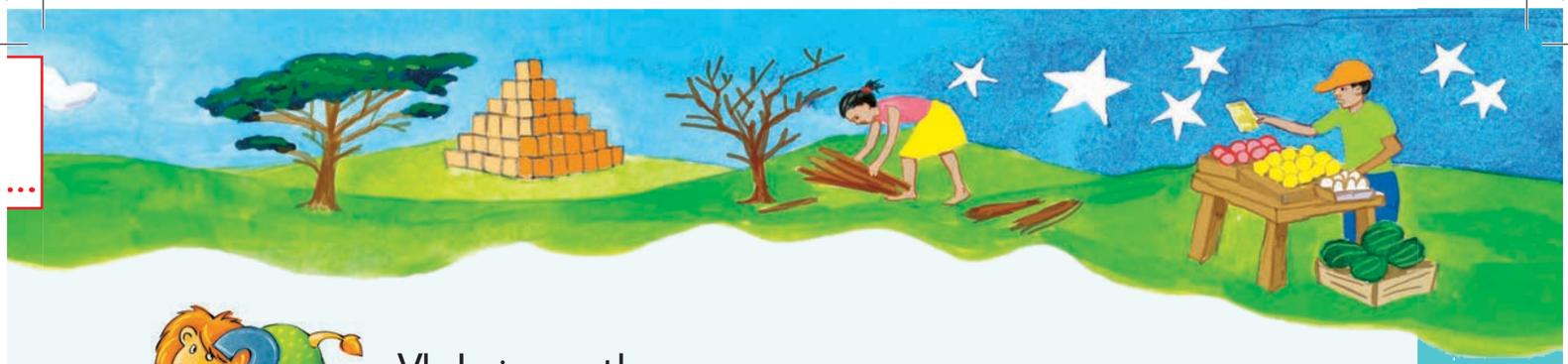




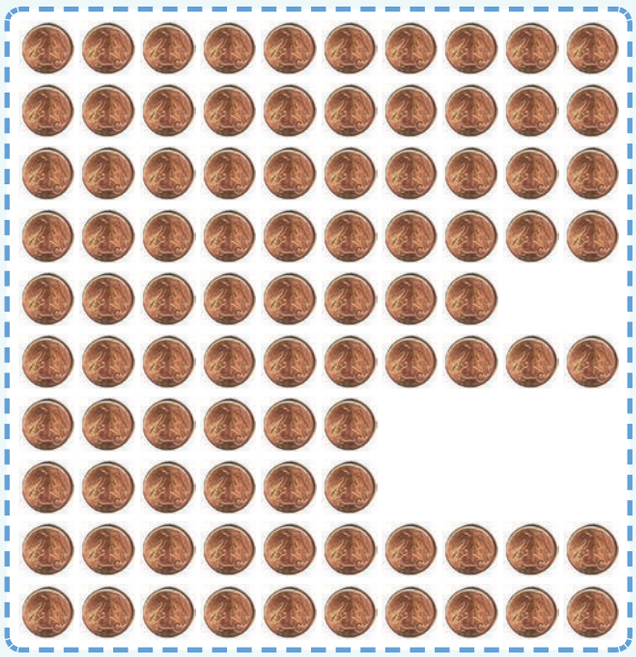
Vhalani masenthe

Vhalani masenthe.

Ndi masenthe mangana ane na vha nao?

Hu ṱoḓea maṅwe mangana uri a ite R1,00?

A oleni kha tshibuḽoko





Ndi masenthe mangana?

R1,00 =		c	R2,00 =		c
R3,00 =		c	R1,50 =		c



Tshi ḓura vhugai?



ya 2 i ita R4,00.



a 2 a ita R2,00.

Ni wana miomva mingana nga R20,00?

Ni wana maapula mangana nga R9,00?





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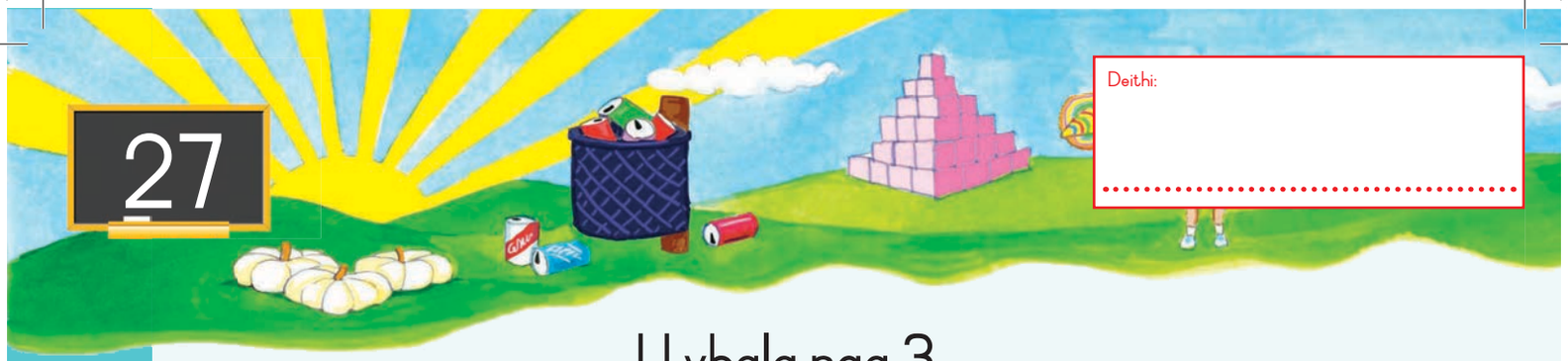

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Deithi:

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U vhala nga 3



Malinga nga 3



Baisigira ya 1 ya malinga mararu (thiraisikili) i na malinga a _____.

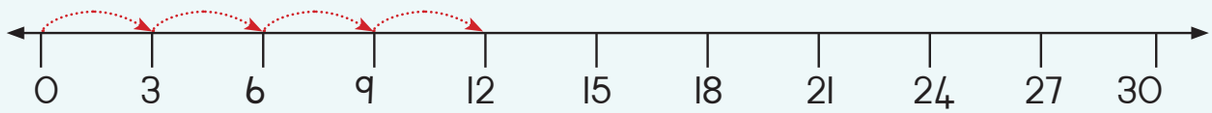


thiraisaikili dza 5 dzi na malinga a _____	$3 + 3 + 3 + 3 + 3 = 5 \times 3 =$ _____
thiraisaikili dza 2 dzi na malinga a _____	$3 + 3 = 2 \times 3 =$ _____
thiraisaikili dza 4 dzi na malinga a _____	
thiraisaikili dza 6 dzi na malinga a _____	
thiraisaikili dza 9 dzi na malinga a _____	
thiraisaikili dza 8 dzi na malinga a _____	



Mitalombalo

Tevhedzani tsumbo



a. $3 + 3 + 3 + 3 =$ ☐ $= 4 \times 3 =$ ☐



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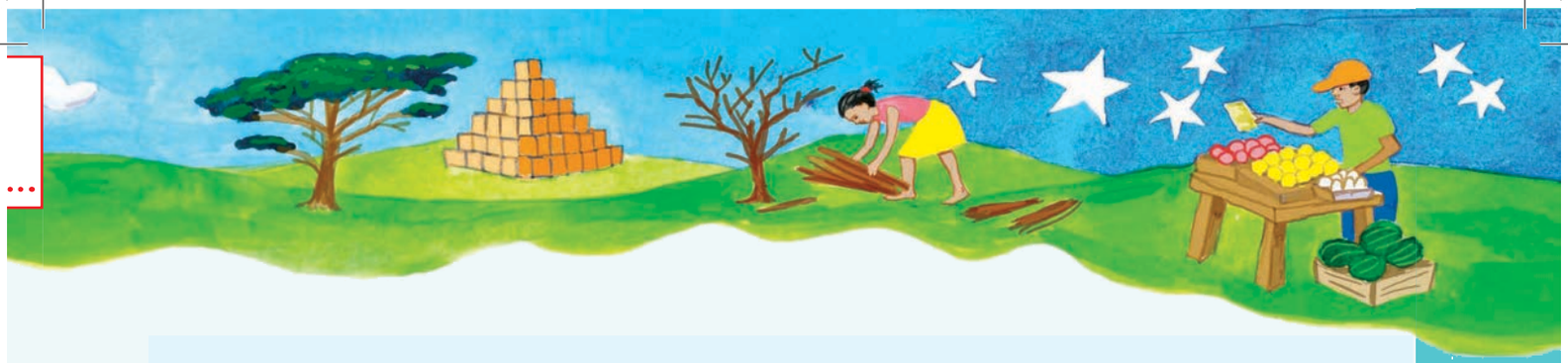
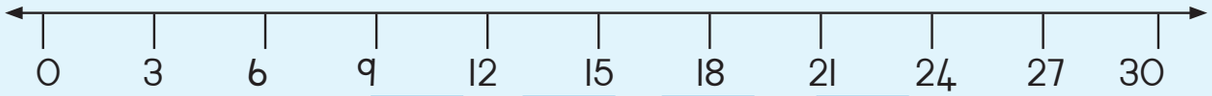
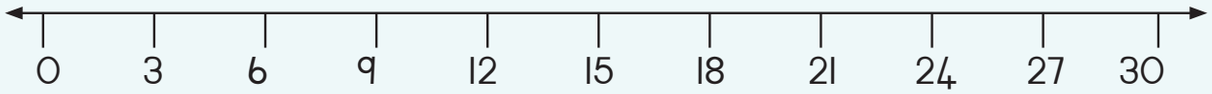


b.



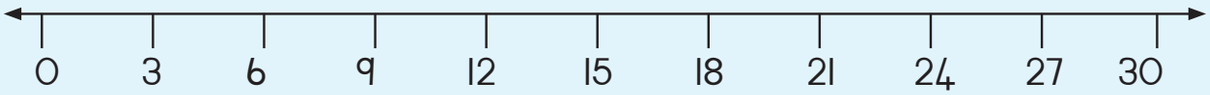
$3 + 3 + 3 + 3 + 3 = \square = \square \times \square = \square$

c.



$\_\_\_\_\_ = \square = 6 \times 3 = \square$

d.



$\_\_\_\_\_ = \square = 10 \times 3 = \square$



Baisigira dza malinga mavhili na baisigira dza malinga mararu





Vhengeleni ḽa baisigira Mulanga u vhala malinga a baisigira dza malinga mavhili na a baisigira dza malinga mararu. Hu na malinga a 14 o ṱangana.

Hu na baisigira nngana dza malinga mavhili? _____
Hu na baisigira dza malinga mararu nngana? _____

Teacher:
Sign:
Date:

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28

Deithi:

Ndi zwifhio zwi no tshimbila nga 4?



Milenzhe miṅa

Zwiṅwevho nga nomboro 4 …
4 + 4 = 8; 2 × 4 = 8



Milenzhe ya kholomo ndi 4.

Ndi mini tshiṅwe hafhu tshine tsha vha zwiṅazwiṅa? _____



U vhala milenzhe

Kovhanani phindulo.
Ṱalutshedzani zwe na ita.

Shumisani zwine na zwi ḓivha nga 4 ni tshi fhindula mbudziso idzi.

Kholomo  ya 1 milenzhe ya 4	Kholomo dza 2  milenzhe ya 8
Kholomo  dza 3 milenzhe ya	Kholomo dza 4  milenzhe ya
Kholomo  dza 5 milenzhe ya	Kholomo dza 6  milenzhe ya
Kholomo  dza 7 milenzhe ya	Kholomo dza 8  milenzhe ya
Kholomo  dza 9 milenzhe ya	Kholomo dza 10  milenzhe ya

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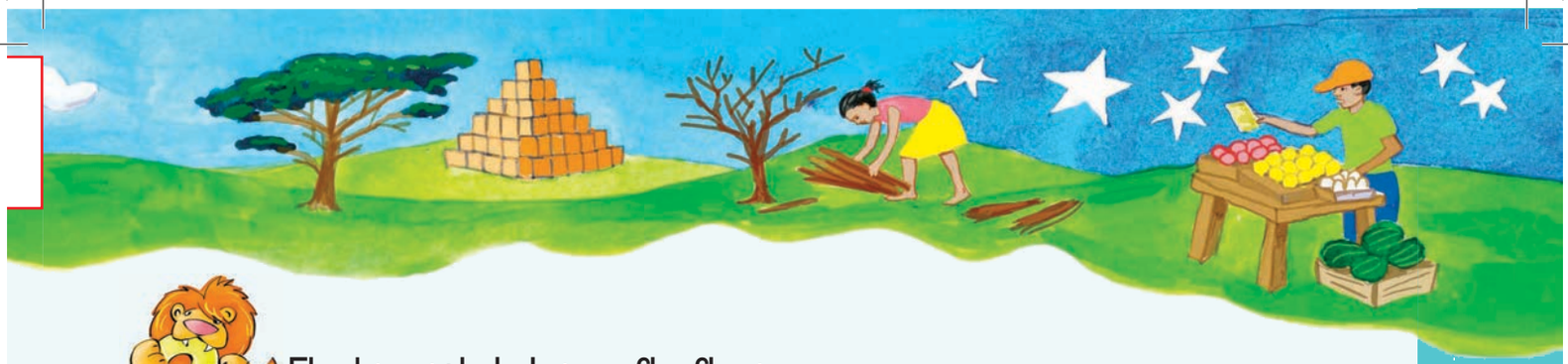


Fhedzisani thebulu i re afho fhasi.
Shumisani tsumbo uri I i ni dedeze.

kholomo dza 3 dzi na milenzhe ya _____	$4 + 4 + 4 = 4 \times 3 =$ 12
kholomo dza 5 dzi na milenzhe ya _____	
kholomo dza 4 dzi na milenzhe ya _____	
kholomo dza 7 dzi na milenzhe ya _____	
kholomo dza 8 dzi na milenzhe ya _____	



Mitalombalo

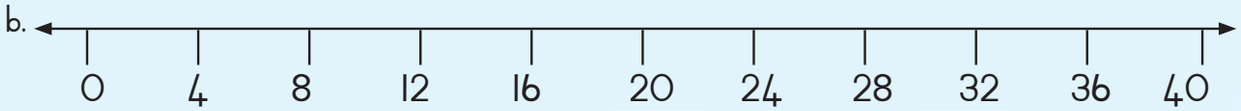
Fhedzisani zwi tevhelaho ni zwi sumbedze kha mutalombalo.

a.



_____ = ☐ = $5 \times 4 =$ ☐

b.



_____ = ☐ = $9 \times 4 =$ ☐

Teacher:
Sign:
Date:

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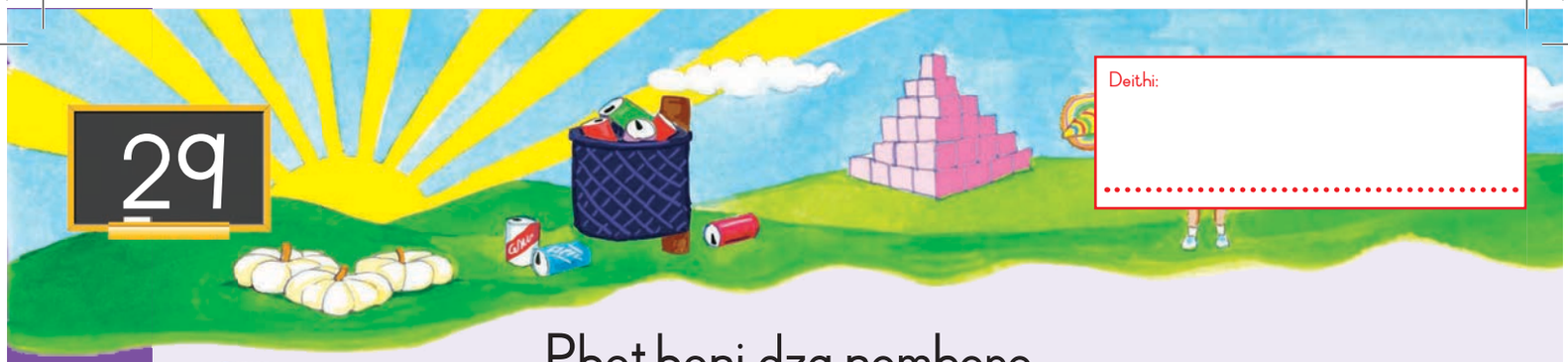


29

Deithi:

Themo ya 1

Phetheni dza nomboro



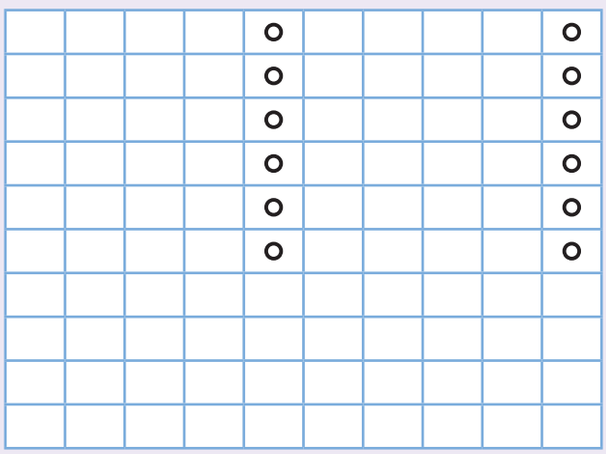
Phetheni dza giridi

Ndi phetheni ifhio ya nomboro ine zwitendeledzi zwiṅwe na zwiṅwe zwi re kha giridi ya 100 zwa sumbedza?

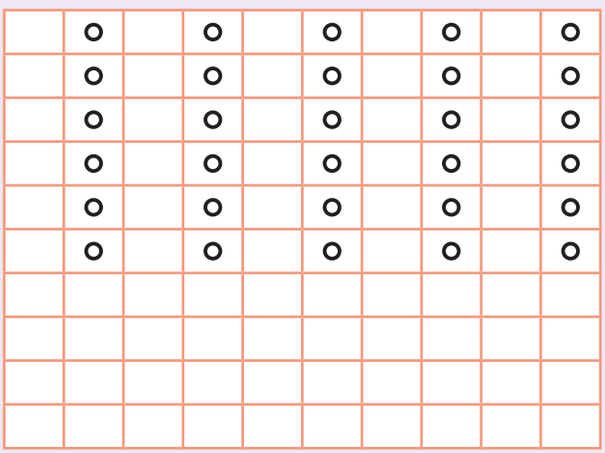
Olani zwitendeledzi zwiṅwe nga nṱha ni tshi fhedzisa phetheni iṅwe na iṅwe.

Ṅwalani dzina ḽa phetheni iṅwe na iṅwe.

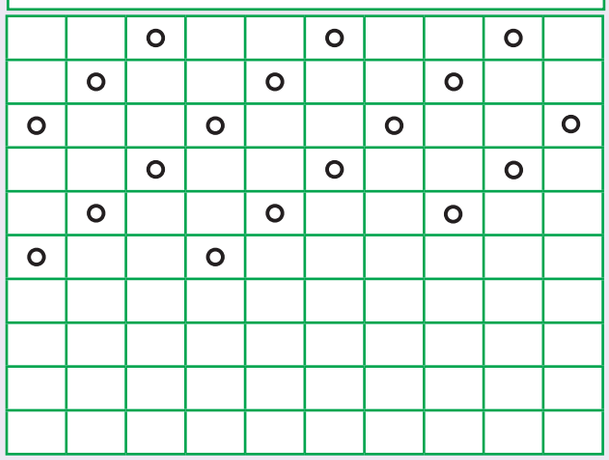
a. Phetheni: _____



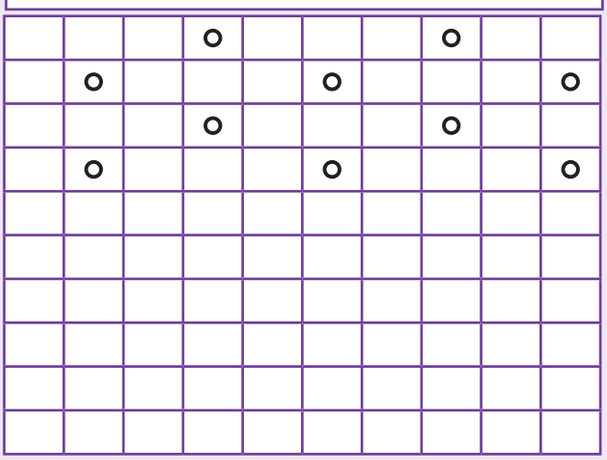
b. Phetheni: _____



c. Phetheni: _____



d. Phetheni: _____



1 2 3 4 5 6 7 8 9 10

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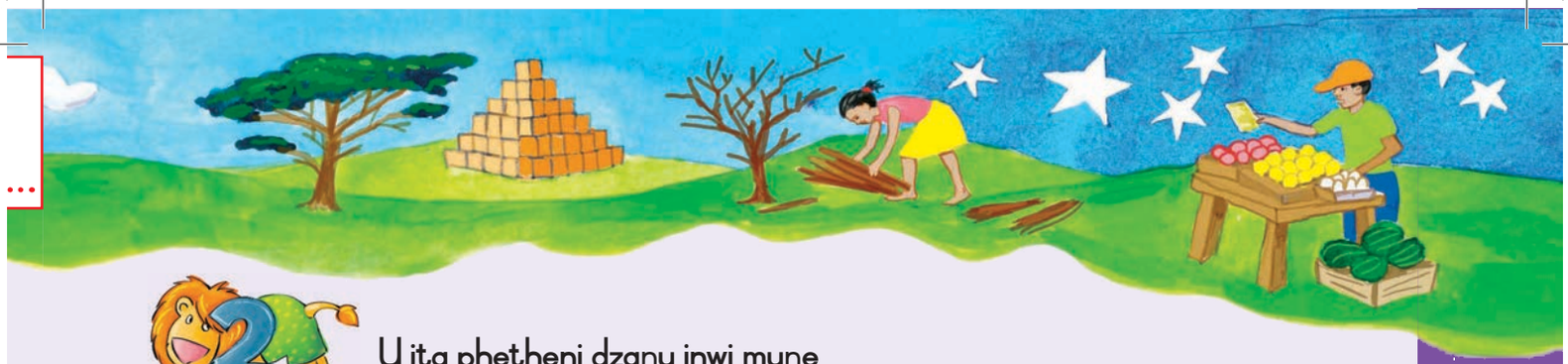
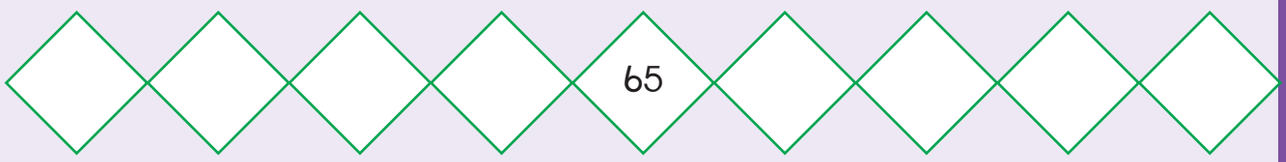


U ita phetheni dzaṋu inwi muṋe

a. Kha phetheni ya nomboro iyi nomboro dzoṱhe ndi ivini. Dziṅwe nomboro dzi nga vha dzi nomboroḍe? Dzi ṅwaleni.



b. Kha phetheni ya nomboro, nomboro dzoṱhe ndi dza odo. Dziṅwe nomboro dzi nga vha dzi nomboroḍe? Dzi ṅwaleni.



Dzi wela ngafhi?





Phetheni dza 3 na dza 4	Phetheni dza 3 na dza 5	Phetheni dza 4 na dza 5
tsumbo: 48		

Lwanzheni

Thembi u kuvhanganya khamba dza khumba dza lwanzheni dza vhukati ha 60 na 70. U dzi vhala nga 3, u na 1 yo salaho. Nomboro dzine dza nga konadzea ndi: 61, ____, ____, 70. Musi a tshi dzi vhala nga ṱhanu (dzi5), u na tshiṱahe tsha 4. Nomboro dzine dza nga konadzea ndi: ____, ____. Thembi u na khamba nngana ? _____.



Teacher:
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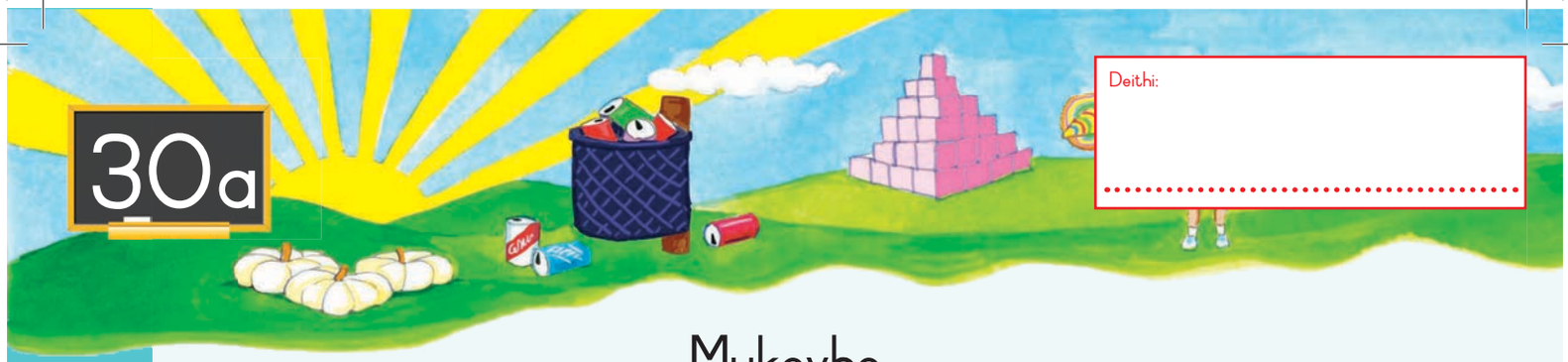


30a

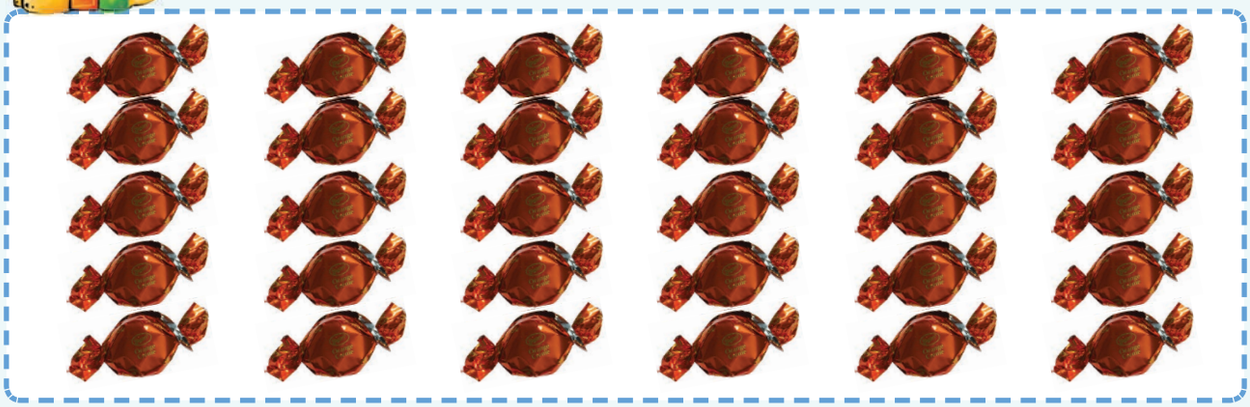
Deithi:

Themo ya 1

Mukovho



Kovhani maḽegere



a. Kovhelani vhana vha 2 maḽegere a 30.



Ri nga i ṅwala sa 30 ÷ 2 = 15

b. Kovhelani vhana vha 3 maḽegere.



÷ =

c. Kovhelani vhana vha 5 maḽegere.



÷ =

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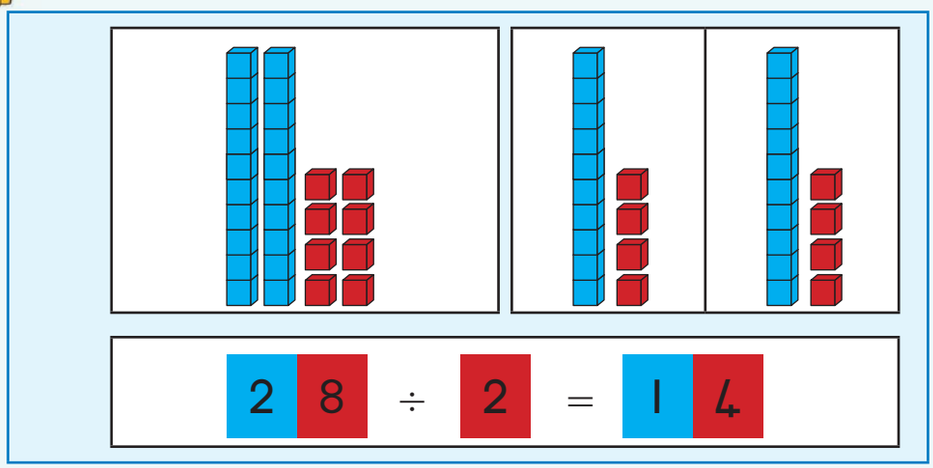
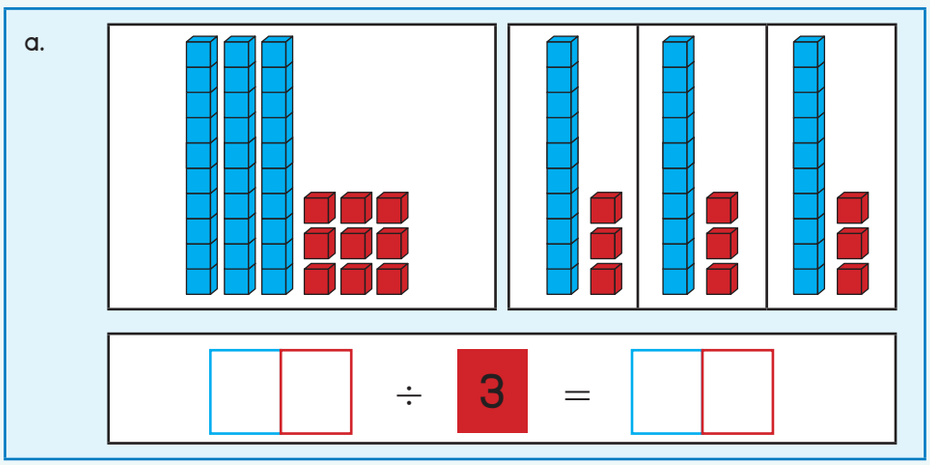
Ri nga shumisa zwibuḽoko zwa nomboro kha mukovho.

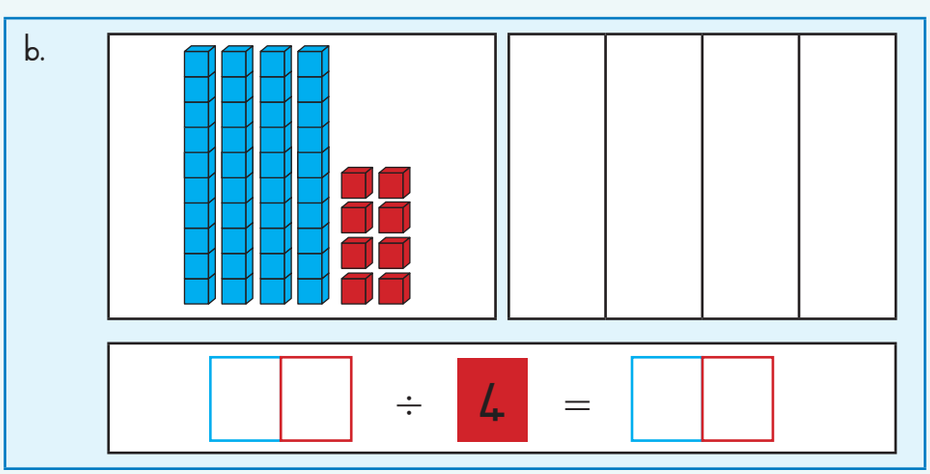


Zwino shumani hedzi.

a.



b.





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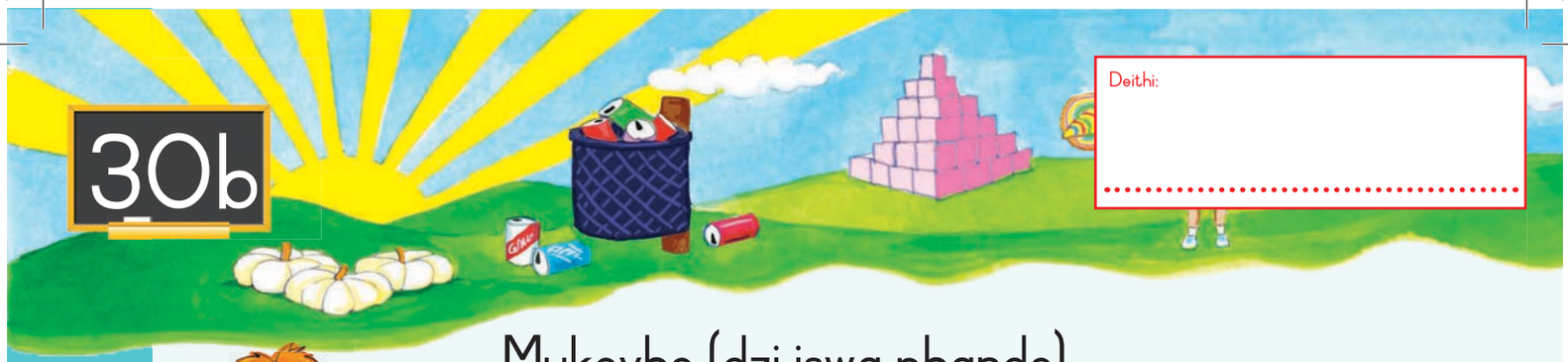


30b

Deithi:

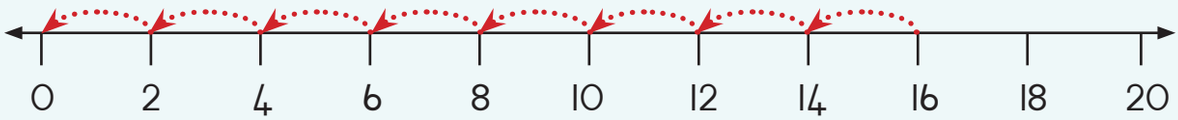
Themo ya 1

Mukovho (dzi iswa phandọ)



Shumisani mitalombalo kha u kha u ṅwala fhungombalo ḽa muṱuso na ḽa mukovho.

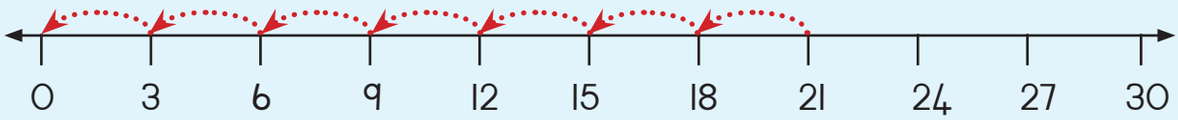
Tsumbo:



16 − 2 − 2 − 2 − 2 − 2 − 2 − 2 − 2 = 0

16 ÷ 2 = 8

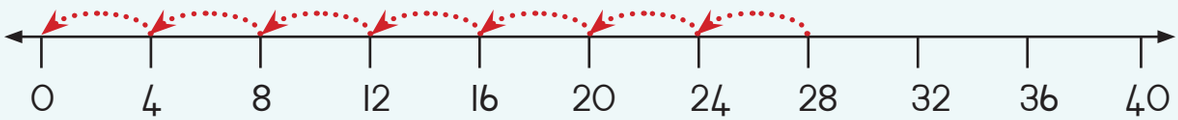
a.



21 − _____ = _____

☐ ÷ ☐ =

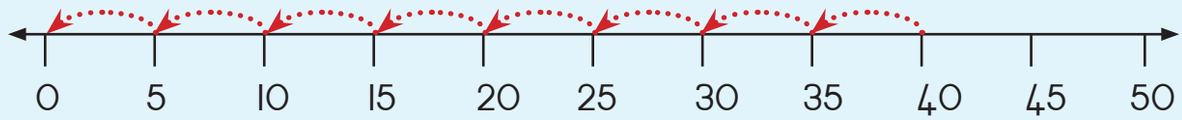
b.



28 − _____ = _____

☐ ÷ ☐ =

c.



___ − _____ = _____

☐ ÷ ☐ =

1 2 3 4 5 6 7 8 9 10

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Talani mutalombalo ni u saukanye.

a. 30 ÷ 5 =

b. 22 ÷ 2 =

c. 27 ÷ 3 =

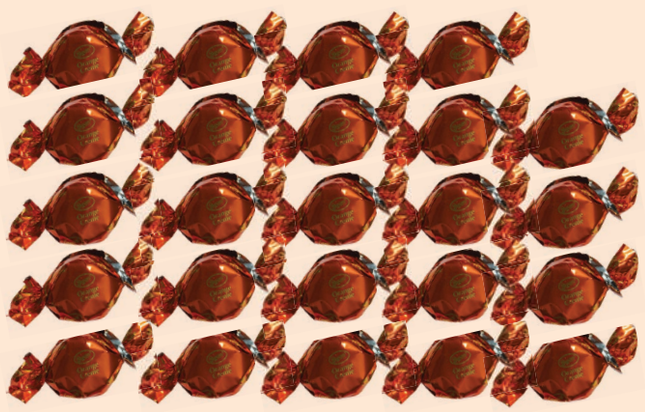
d. 32 ÷ 4 =

e. 25 ÷ 5 =

Khaedu

Sumbedzani ṋdila dzoṱhe dzine na nga kovhela vhana vha zwigwadza zwo fhambananaho maḽegere a 24 a tshi eḓana

Ṅwalani fhungombalo ni tshi sumbedza phindulo.



Teacher:

Sign:

Date:

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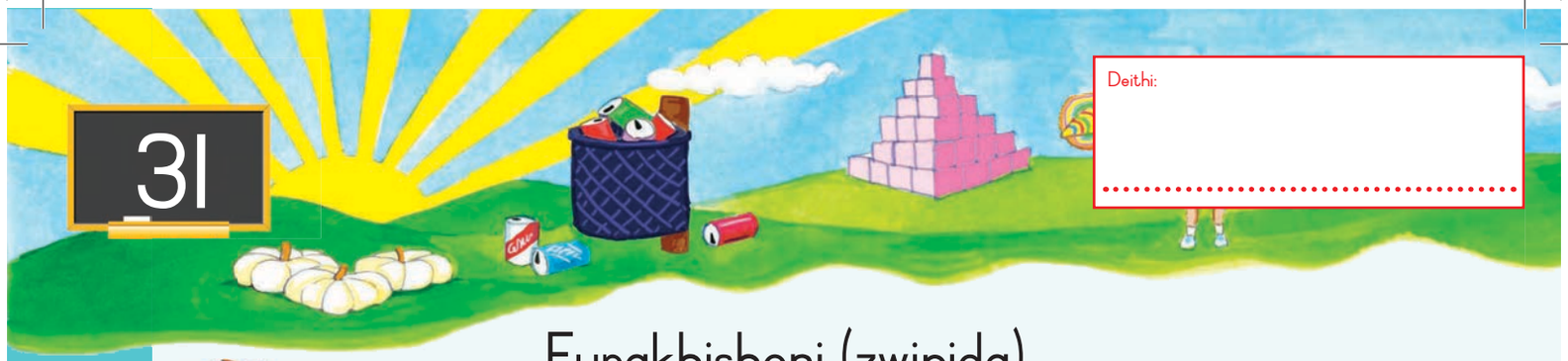


31

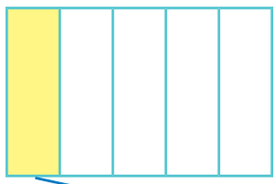
Deithi:

.....

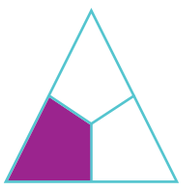
Furakhisheni (zwipiḓa)



Livhanyani tshivhumbeo na furakhisheni.



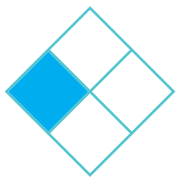
Tshararu $\frac{1}{3}$



Tshaṱhanu $\frac{1}{5}$



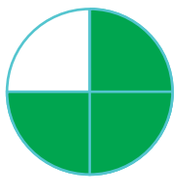
Kota nthihi $\frac{1}{4}$



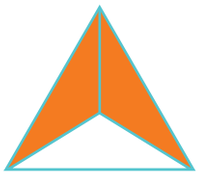
Hafu nthihi $\frac{1}{2}$



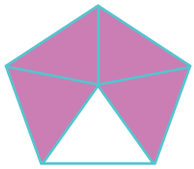
Kota tharu $\frac{3}{4}$



Tshaiṋaṱhanu $\frac{4}{5}$



Nthihiyoṱhe 1



Tshambiliraru $\frac{2}{3}$

Kovhani ni khaḽare tshivhumbeo ni tshi sumbedza furakhisheni:

$\frac{1}{2}$ Hafu nthihi

$\frac{1}{3}$ Tshararu

$\frac{1}{4}$ Kota nthihi

$\frac{1}{5}$ Tshaṱhanu

Sumbedzani furakhisheni nga u tangedzela tshivhalo tshi re tshone tsha maḽegere:



$\frac{1}{2}$ Hafu nthihi



$\frac{1}{3}$ Tshararu



$\frac{1}{4}$ Kota nthihi



$\frac{1}{5}$ Tshaṱhanu

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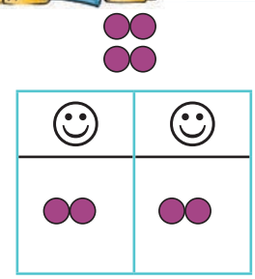
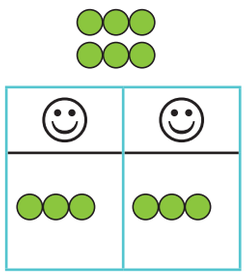
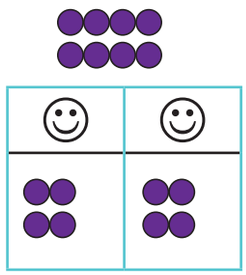
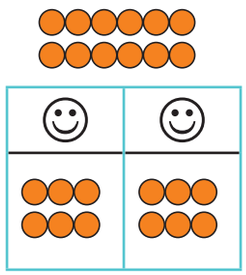
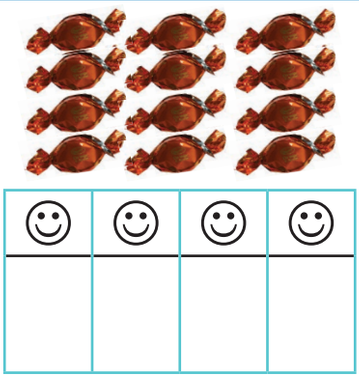
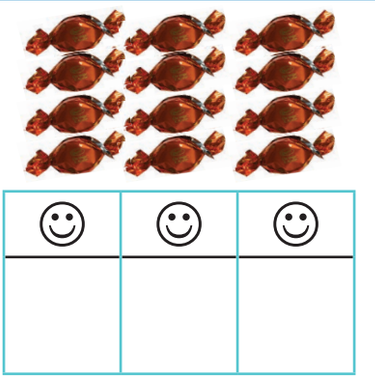
Kovhelani vhana vhavhili zwivhaleli.

			
• Muṅwe na muṅwe washu o ṉewa zwivhaleli zwa 2 • $\frac{1}{2}$ ya zwivhaleli zwa 4. zwivhaleli zwa 2.	• Muṅwe na muṅwe washu o ṉewa zwivhaleli zwa ____ • ___ ya zwivhaleli zwa___ndi ___.	• Muṅwe na muṅwe washu o ṉewa zwivhaleli zwa __. • ___ ya zwivhaleli zwa___ndi ____.	• Muṅwe na muṅwe washu o ṉewa zwivhaleli zwa __. • ___ ya zwivhaleli zwa___ndi _____.
$4 \div 2 = 2$	___ ÷ ___ = ___	__ ÷ __ = __	___ ÷ ___ = ___



Kovhelani vhana zwivhaleli.

	
• $\frac{1}{4}$ ya maḽegere = 3 • $\frac{2}{4}$ ya maḽegere = __ • $\frac{3}{4}$ ya maḽegere = __ • $\frac{4}{4}$ ya maḽegere = __	• $\frac{1}{3}$ ya maḽegere = ___ • $\frac{2}{3}$ ya maḽegere = ___ • $\frac{3}{3}$ ya maḽegere = ___



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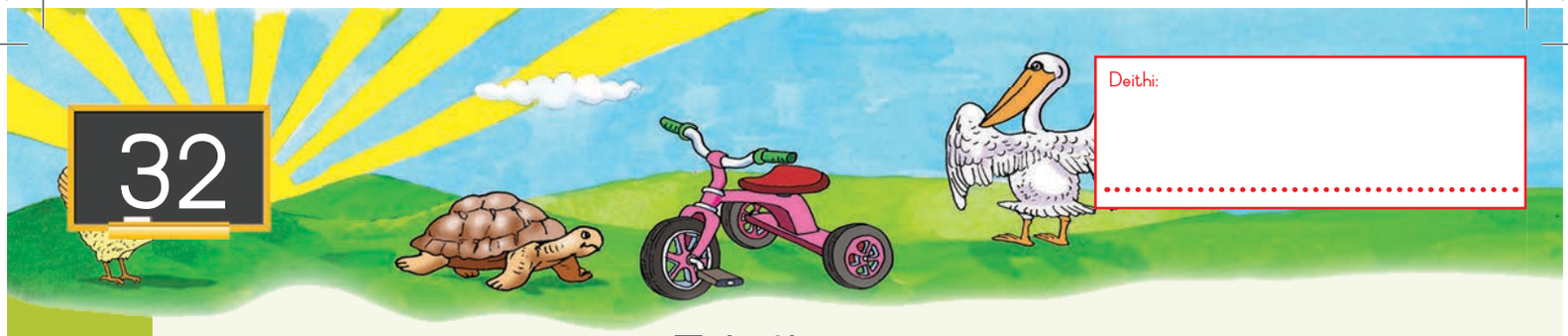


32

Deithi:

Themo ya 1

Tshifhinga

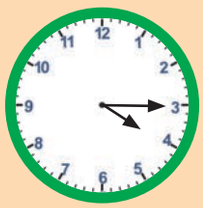


Ri mona sa watshi

Ri nga ṅwala tshifhinga tshithihi nga nḓila dzo fhambanaho.

		
2:15 minete ya fumiṱhanu u bva kha awara ya vhuvhili	5:30 minete ya mahumi mararu u bva kha awara ya vhuṱanu	9:45 minete ya mahumi maṋa na miṱanu u bva kha awara ya ṱahe

Ṅwalani izwi nga nḓila dzo fhambanaho.

		
_____	_____	_____
_____	_____	_____

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U ya hayani

Zwi dzhiela Ben tshifhinga tshingafhani u swika hayani?

	miminete
	awara



Ben u takuwa tshikoloni.



Ben u swika hayani.

Tshifhinga nga 2 ...



Hu na ...

miminete mingana kha awara dza 2? _____

iri nngana kha maḓuvha a 2? _____

maḓuvha mangana kha vhege dza 2? _____

miṅwedzi mingana kha miṅwaha ya 2? _____

Lambamai

M	L	L	L	L	M	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Shundunthule

M	L	L	L	L	M	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Fulwi

M	L	L	L	L	M	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Dzi 27 dza Lambamai ndi Ḓuvha ḽa Mbofholowo.

Dzi 16 dza Fulwi ndi Ḓuvha ḽa Vhaswa.

a. U bva kha Ḓuvha ḽa Mbofholowo u ya kha Ḓuvha ḽa Vhaswa hu na miṅwedzi ya _____ yo fhelelaho, vhege dza _____ dzo fhelelaho na maḓuvha a _____ o fhelelaho.

b. Ndi vhege nngana dzo fhelelaho dzo ṱangana? _____

Ndi maḓuvha mangana o salaho? _____. Ndi maḓuvha mangana oṱhe? _____.

c. Ḓuvha ḽa mabebo ḽa Dovhani ḽi swika kha maḓuvha a 7 musi Ḓuvha ḽa Mbofholowo ḽi sa athu surika.

Ḓuvha ḽa mabebo ḽa Musa ḽi ḓa kha maḓuvha mavhili nga murahu ha Ḓuvha ḽa Vhaswa.

Ndi nnyi muhulwane? _____ Nga maḓuvha mangana? _____

Iolani. Vhambedzani. Lulamisani.

Teacher:
Sign:
Date:

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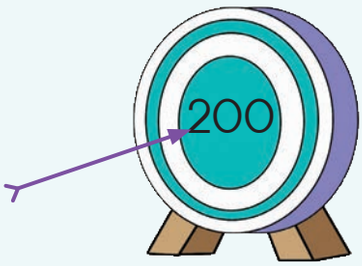
Deithi:

.....

Thagethe 200



U vhala nomboro



Vhalani ni ambe nomboro dzo̱the u bva kha 101 u swika kha 200. Sumbani ni tshi khou vhala.



101	102								
111									
121									
131									
								149	
			154						
				165					
		173							180
181					186				
							198		200



U ṅwala nomboro

a. Ṅwalani nomboro i no khou t̤ahela tshibogisini tshiṅwe na tshiṅwe tsha lutombo.

b. Ṅwalani dziṅwe nomboro dzo̱the.

c. Ṅwalani nomboro dza 10 dzi no tevhela 200.

200; _____; _____; _____; _____; _____; _____; _____; _____; _____



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Ṅwalani nomboro dzi no khou ṱahela

a.

200		180			
					110
50					
					0

b.

87		107	
167			
		207	
			237

Fhedzisani

200	+	30	+	5	=	235
200	+	40	+	7	=	____
200	+	60	+	8	=	____
	+		+		=	293
	+		+		=	256

Ṅwalani nomboro idzi dzi tshi tou tevhekana u bva kha ṱhukhusa u ya kha khulwanesa.

_____

_____

_____

_____

_____

U vhala u bva kha 100

Wanani uri ni tea u vha na mini u itela u swika kha nomboro i no tevhela.

Thomani: 100 → +25 → 125 → ____ → 129 → ____ → 138 → ____ → 145

Gumani: 168 ← ____ ← 157 ← ____ ← 151 ← ____ ← 145

Teacher:

Sign:

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34

Deithi:

U shuma na zwigwada zwa nomboro



U paka makhaṋdela

Vho Mankosi vha shuma ḽimagani ḽa makhaṋdela.
Musi makhaṋdela o no luga, vha a paka mabogisini a re kha dzi shelefu.



Hu na makhaṋdela mangana bogisini ḽiṅwe na ḽiṅwe? _____

Hu na mabogisi mangana kha shelefu iṅwe na iṅwe? _____

Hu na makhaṋdela manga kha shelefu iṅwe na iṅwe? _____

1 2 3 4 5 6 7 8 9 10

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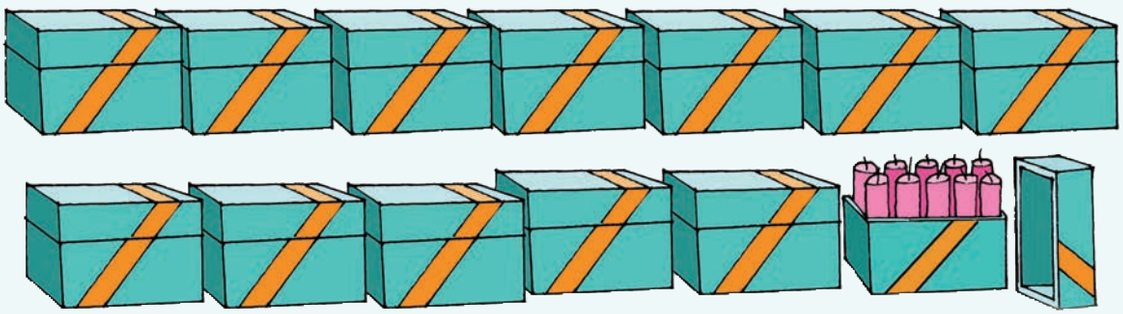
Mabogisi a makhanḓela

Vho Mankosi vha vala mabogisi .



a. Vhalani mabogisi oṱhe

Hu na mabogisi mangana? _____
Hu na makhanḓela mangana o ṱangana oṱhe? _____
Ndi mabogisi mangana maṅwe ane vha tea u a ḓadza u itela uri vha vhe na makhanḓela a 200 ? _____

b. Hu na makhanḓela mangana:

Mabogisini a 2? _____	Mabogisini a 4? _____
Mabogisini a 5? _____	Mabogisini a 3? _____
Mabogisini a 6? _____	Mabogisini a 7? _____

c. Vha ṱoḓa mabogisi mangana:

Mabogisi a 40 _____	Mabogisi a 70 _____
Mabogisi a 50 _____	Mabogisi a 30 _____

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Deithi:

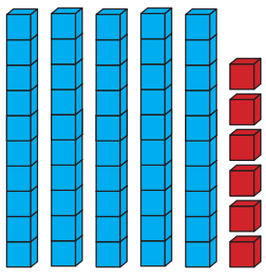
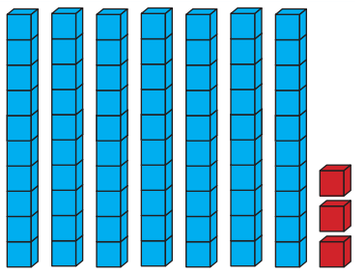
35a

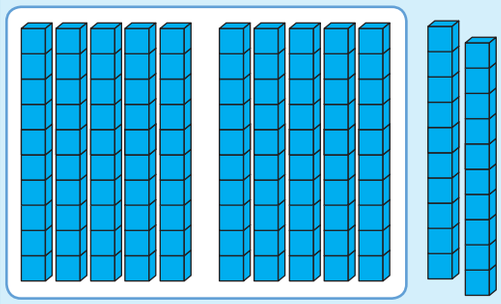
Themo ya 2

U vhea mahumi fhethu huthihi na u a fhandekanya



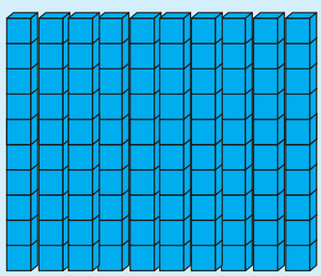
U vhea mahumi fhethu huthihi musi ri tshi ṱanganya kha 999

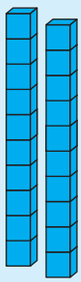
Kha ri ṱanganye 56 + 73 =		+	
	mahumi a 5 na yuniti dza 6		mahumi a 7 na yuniti 3

100	10	1
		

Zwo ṱangana ri na yuniti dza 12.

Ri nga vhea mahumi a 10 fhethu huthihi uri a ite ḓana ḽa 1.







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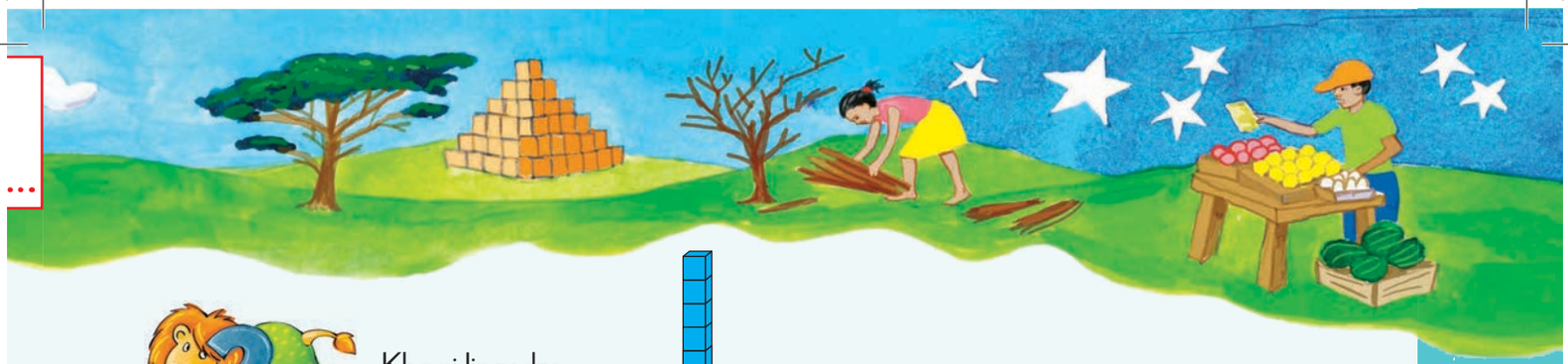
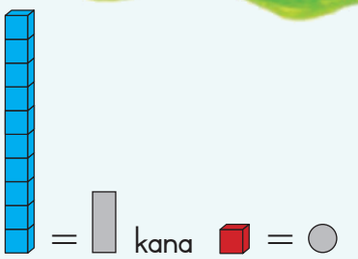
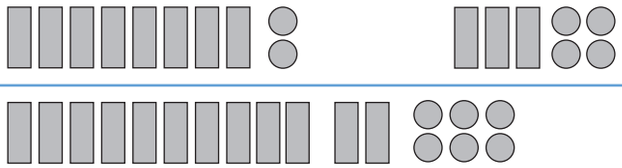


Kha ri lingedze



Tsumbo: 82 + 34



100 + 20 + 6 = 126

a. 65 + 52

b. 76 + 63

c. 86 + 65

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35b

Deithi:

.....

U vhea mahumi fhethu huthihi na u a fhandekanya (dzi iswa phanḓa)



U vhea zwigwada fhethu huthihi

U shumisa zwibuḽoko zwaṋu zwa vhuimo ha nomboro.

Shumisani zwibuḽoko zwa muteo wa mahumi kha u sika nomboro idzi mbili.	Ndi mahumi mangana o ṱangana oṱhe? ndi yuniti nngana?	No vhea nga zwigwada mahumi kana yuniti naa? Ṱolani vhuimo ha nomboro he na vhu vhea nga zwigwada.	Ṅwalani nomboro.
23 + 99 =	mahumi a ___ yuniti dza ___	Mahumi a 11 + Yuniti dza 12 = 110 + 12	122
38 + 25 =	mahumi a ___ yuniti dza ___		
77 + 31 =	mahumi a ___ yuniti dza ___		
68 + 45 =	mahumi a ___ yuniti dza ___		
83 + 47 =	mahumi a ___ yuniti dza ___		

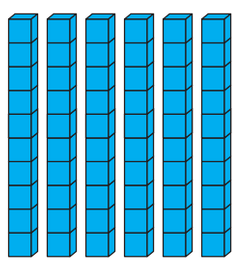
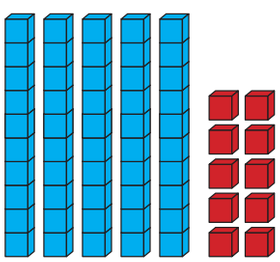
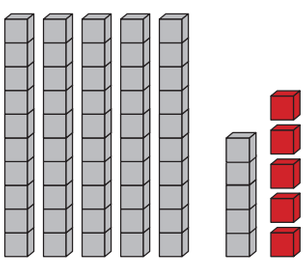


U fhandekanya mahumi musi ri tshi ṱusa

Musi ri tshi ṱusa, tshiṅwe tshifhinga ri tea u sumbedza fumi nthihi sa yuniti dza fumi, kana ḓana ḽithihi sa mahumi a 10.

Kha ri ṱuse: 60 – 55 =

Ri thoma nga mahumi a rathi na thihi nthihi. Ri khou ṱoḓou ṱusa mahumi maṱanu na thihi ṱhanu.
(Zwine ra ṱusa ro zwi khaḽara nga muvhala museṱha)

			
Ri nga sumbedza mahumi a rathi nga hei ndila.	Kana sa mahumi maṱanu na yuniti dza fumi	Ṱusani mahumi maṱanu na yuniti ṱhanu. Ho sala yuniti ṱhanu.	
		60 – 55 = 5	

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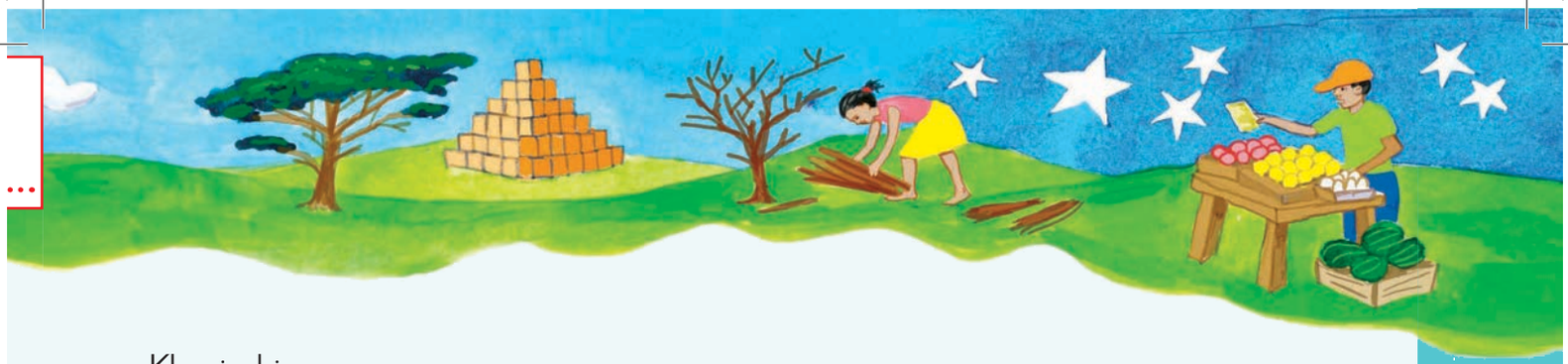
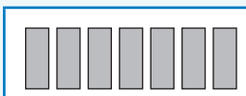
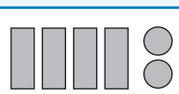


Kha ri edzise

a. 70 – 28

			
mahumi a 7	mahumi a 6 na yuniti dza 10	70 – 28 =	

b. 90 – 46

c. 80 – 53



U wana phere ya nomboro

a.

200	
30	

b.

200	
70	

c.

200	
	105

d.

200	
85	



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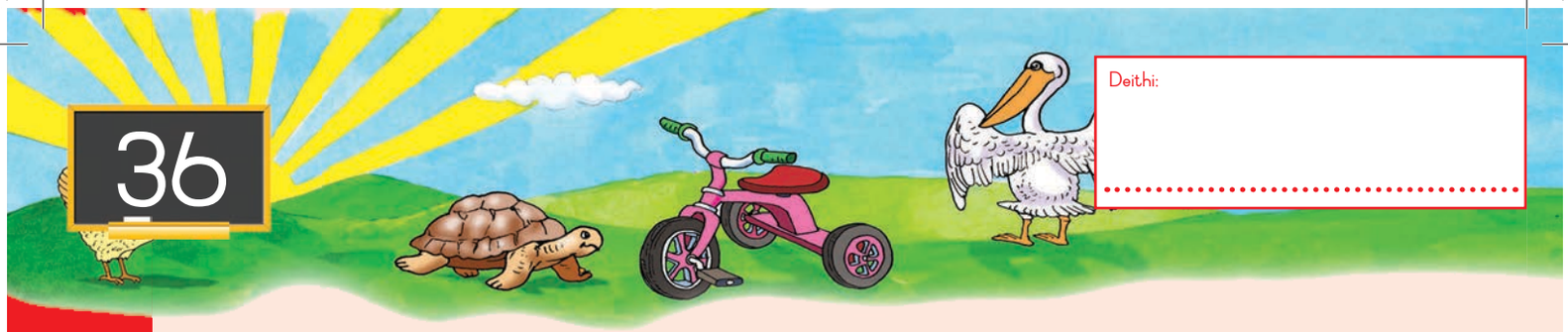

36

Deithi:

U ya ha dokotela wa maṋo



Tshigwada tsha vhana tshi dalela dokotela wa maṋo.



Vhana vha mu ṱalutshedza.  hezwi = lwa 1

	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓								

a. Vhalani dzithiki (✓) dzi no sumbedza uri vhana vha ṱamba maṋo lungana. Ṅwalani nomboro.

 Luthihi nga ḓuvha	
 Luvhili nga ḓuvha	
 Luraru nga ḓuvha	

b. Ni nga ṱalutshedza zwifhio?

Vhunzhi ha vhana vha ṱamba maṋo _____ nga ḓuvha.
Hu na vhana vha _____ kha tshigwada.



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Olani phikhitogirafu i no sumbedza uri vhana vha ṱamba maṋo lungana nga ḓuvha.

 = lwa 1



Itani ṱhoḓisiso kiḽasini yaṋu. Vhudzisani vhagudi vha 15 – 20.

a. Vha ṱamba maṋo lungana nga ḓuvha? _____

b. Olani girafu ya zwifanyiso i no fana na i re afho nṱha ni tshi sumbedza zwe na wana.

Teacher:
Sign:
Date:

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37a

Deithi:

.....

Ṱanganyani na u baḓekanya



U ṅwala ṱhanganyelo yaṋu



Malindi u kona u ṱanganya yuniti na mahumi a dzi vhea nga zwigwada. A nga ṱanganya na u ṱusa kha bammbiri, hu si na zwibuḽoko. Tshiṅwe tshifhinga u takalela u thoma nga magaraṱa a nomboro awe u sumbedza nomboro.

Zwenezwo kha ṱhanganyelo 56 + 73, u wana magaraṱa haya:

5	0	6	+	7	0	3	

U ṱanganya 1 a vhea fhasi garaṱa.

		9

U a ḓivha uri: 50 + 70 = 120.

U doba garaṱa ḽa maḓana, na ḽa 20 na ḽa 9 a u ita nomboro ya didzhiti dza 3.

1	0	0	
	2	0	
			9

U i ṅwala nga hei ndila:

50 + 70 + 6 + 3
= 50 + 70 + 9
= 120 + 9
= 100 + 20 + 9
= 129



Dumi u a ṱalukanya uri zwibuḽoko zwi shuma nga ndilaḓe. U shuma 56 + 73 nga hei ndila:

50 + 6 + 70 + 3

120 + 9

= 129



Aakar u pfana na u sendedza tsini. U zwi ita nga hei ndila:

56 + 73
= 50 + 70 + 10 – 1
= 130 – 1 = 129

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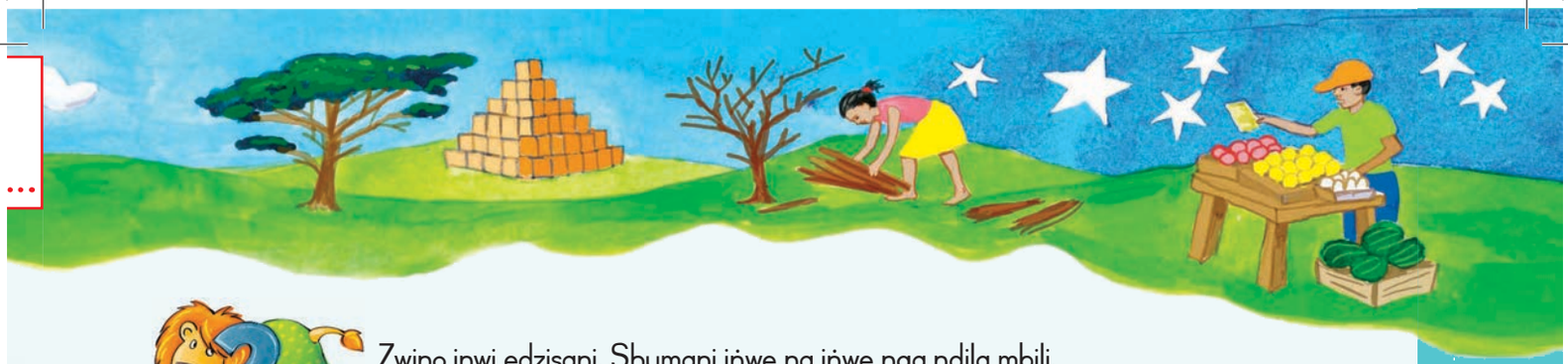

Zwino inwi edzisani. Shumani iṅwe na iṅwe nga nḍila mbili.



a. 86 + 62

Nḍila (kushumele) ya Malindi

80 + 60 + 6 + 2



Nḍila (kushumele) ya Dumi

80 + 6 + 60 + 2

b. 72 + 63

c. 81 + 57

d. 69 + 71

Shumisani ngona ya Aakar kha u shuma heyi mbalo.

Teacher:

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Date:

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37b

Deithi:

Ṱanganyani na u baḓekanya (hu iswa phanḓa)



Zwino kha ri ṱuse.



a. 87 – 53

Ndila ya Malindi

80 – 50 + 7 – 3

= 30 + 4

= 34



Ndila ya Dumi

80 + 7 – 50 + 3

= 30 + 4

= 34

b. 95 – 73

c. 86 – 62

d. 85 – 69

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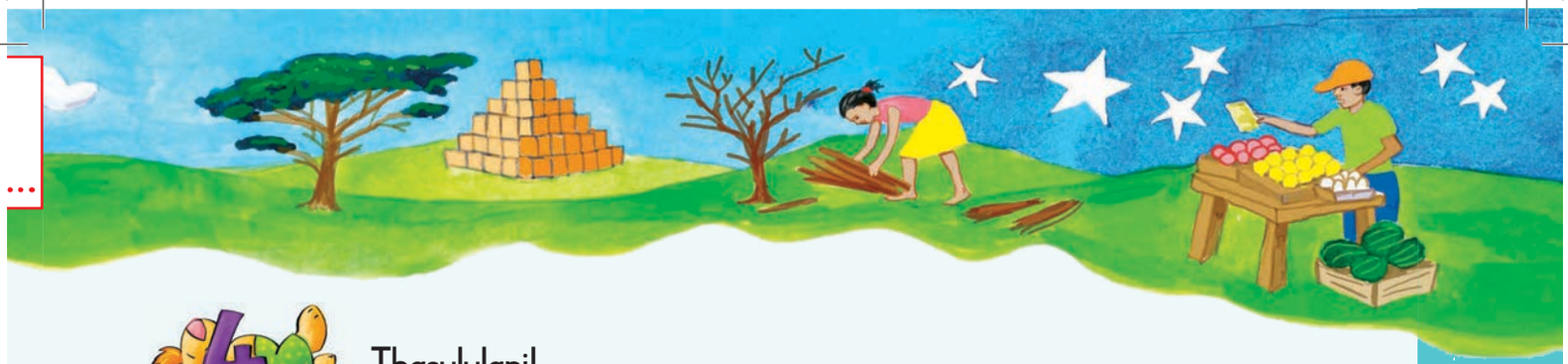

Thasululani!

Hu na ṋdila nnzhi dza u ṱanganya yuniti na mahumi. Nangani ṋdila ine na i ḓivha na u i takalela ya u thasulula mbalo (thaidzo) idzi. Sumbedzani kushumele kwaṋu.

a. Ndalamo u thoma nga u fula maberegisi a 34 a tevhela nga maberegisi a 67.
Hu na maberegisi mangana o ṱangana oṱhe?



b. Vhana vha ha Mualusi vho ṱangana vho vhulunga R47.
Mme avho vha vha engedza nga R55. Vha na vhugai zwino?



c. Bisi ya vhana vha tshikolo i tshimbila lwendo lwa 88 km nga matsheloni na 73 km nga masiari.
Ndi km nngana dzo ṱangana dzoṱhe?



Teacher:
Sign:
Date:

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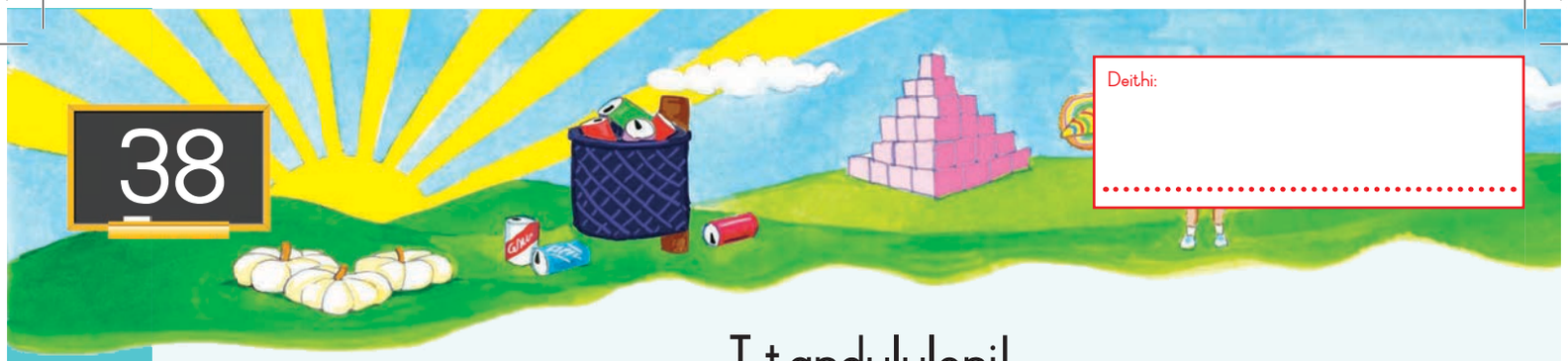

Deithi:

.....

I tandululeni!



Zwithivho zwa maboḓelo

Shumisani nḓila iṅwe na iṅwe ine na funa.
Sumbedzani mushumo waṉu.



Sipho





Andile

Sipho u vhala zwithivho zwa 87 zwa maboḓelo. Andile u vhala zwa 94.

Zwithivho zwa maboḓelo zwine Sipho a zwi vhala zwi fhira zwa Andile nga zwingana?



Khontsati ya tshikolo



Musa



Mulalo u rengisa thikhithi. O thoma e na thikhithi dza 92. O sala na dza 67.

U swika zwino Musa o rengisa thikhithi nngana?

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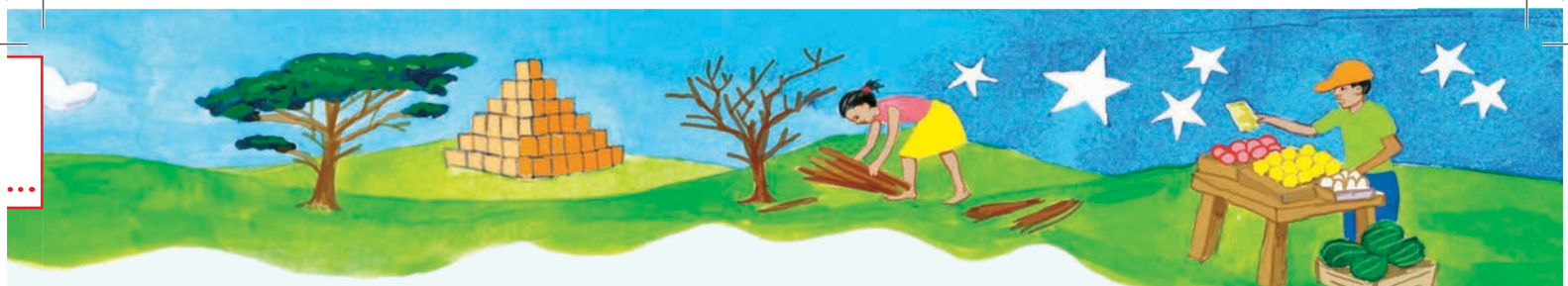
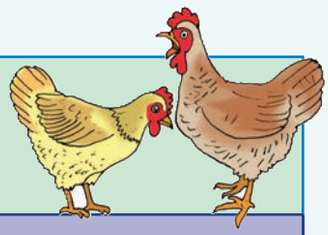




Ndowendowe dziṅwe



Hu na zwikukwana zwa 69 hokoni nthihi na zwa 95 kha iṅwe.
Hu na khuhu nngana dzo ṱangana dzoṱhe?
Vhalani uri Gugu na Aakar vho tandululisa hani thaidzo.



Ndila ya Gugu

$60 + 90 + 9 + 5$
$= 100 + 50 + 14$
$= 150 + 10 + 4$
$= 164$



Ndila ya Aakar

$69 + 95$
$= 70 + 95 - 1$
$= 70 + 90 + 5 - 1$
$= 160 + 4$
$= 164$



a. Vhatukana vha kuvhanganya R96 ya lwendo lwa kilasi. Vhasidzana vha kuvhanganya R79. Vha kuvhanganya vhugai yo ṱangana yoṱhe?

Shumisani ndila ya Gugu	Shumisani ndila ya Aakar

b. Tshikolo tshithihi tshi kuvhanganya 76 kg dza zwikoṱikoṱi. Tshiṅwe tshikolo tsha kuvhanganya 68 kg dza zwikoṱikoṱi. Ndi kg nngana dza zwikoṱikoṱi dzine zwikolo zwivhili zwa kuvhanganya dzo ṱangana dzoṱhe??

Shumisani ndila ya Gugu	Shumisani ndila ya Aakar



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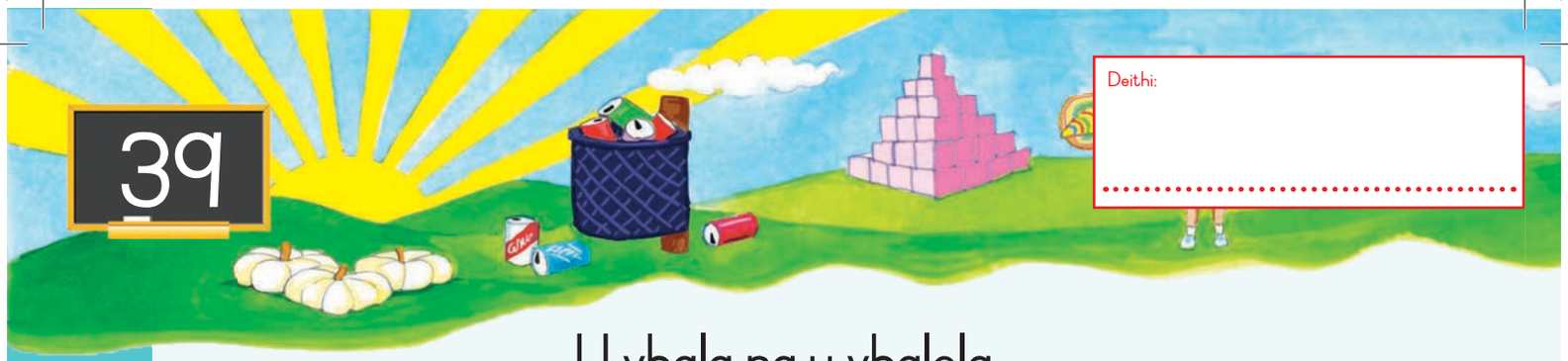

39

Deithi:

Themo ya 2

U vhala na u vhalela



U wana tshipiḓa

Ṅwalani nomboro dzi no khou ṱahela.

a.

100	
	27

b.

100	
39	

c.

100	
43	

d.

100	
56	

e.

200	
140	

f.

200	
	110

g.

200	
135	

h.

200	
	120



U bva 220 u ya kha 100

Tevhelani misevhe.

Ḓadzani tshibogini tshinwe na tshiṅwe tsha phindulo nga nomboro ine na i wana musi no no ṱusa nomboro i re tshibogisini tsha pinki.

Ro dzula ro ni itela ya u thoma.

220 → −15 → 205 → −5 → ☐ → −10 → ☐ → −20 → ☐ → −20 → ☐ → −5 → ☐ → −5 → ☐ → −10 → ☐ → −15 → ☐ → −10 → ☐ → −5 → 100

Ndila ya u ṱola phindulo dzaṋu khei.

Thomani kha 100. Shumani ni tshi ya murahu kha 220.

Fhedzi zwino, ṱanganyani nomboro.

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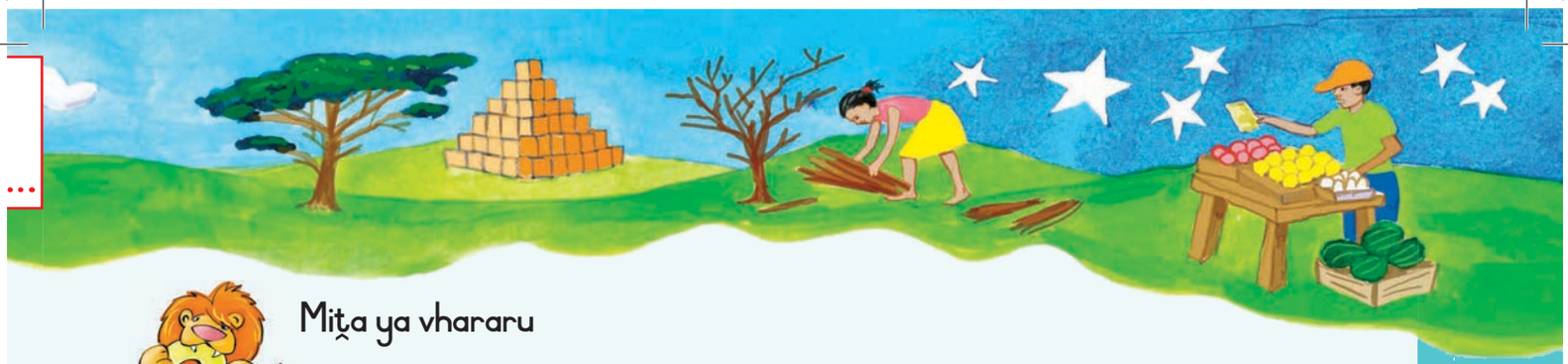
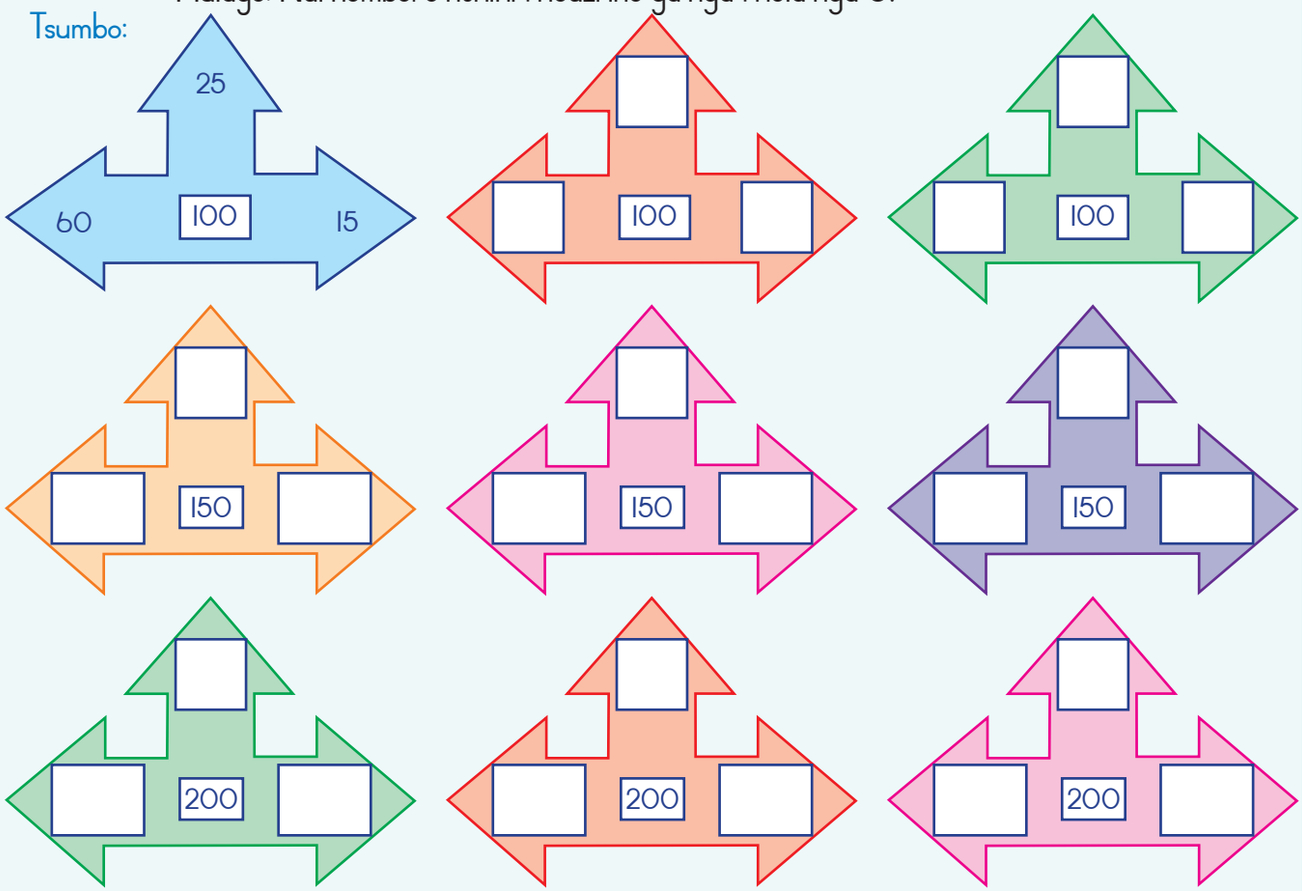




Miṱa ya vhararu

Wanani nomboro dza 3 dzi no vhumba nomboro ya thagethe.
Mulayo: Ndi nomboro nthihi fhedzi ine ya nga fhela nga 0.

Tsumbo:





U fhira nga 50 na u vha fhasi nga 50

Ṅwalani phindulo kha rou ya 2.

+50	70	125	150	81	96	122	134	111	70
	120								
−50	186	200	158	179	139	79	126	138	99
	136								

Teacher:
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Date:

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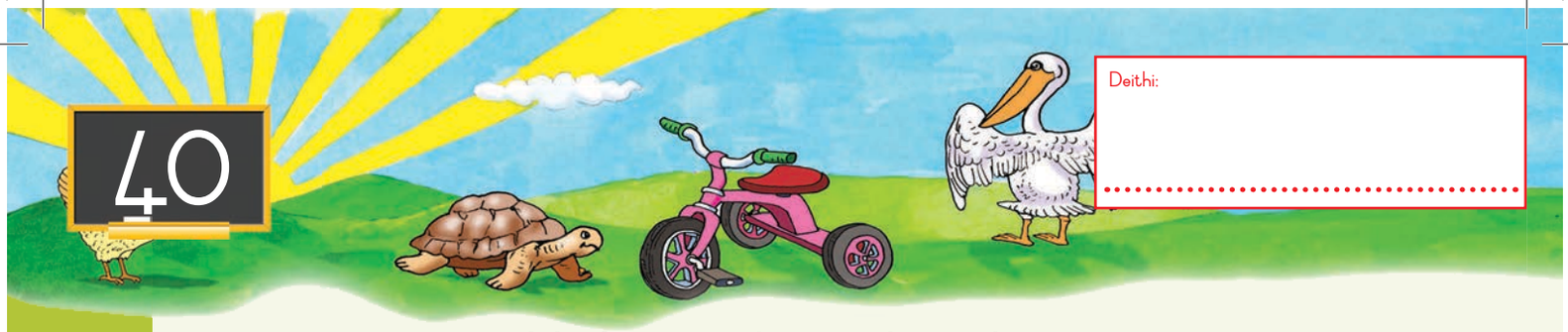


U ela nga dzisenthimitha



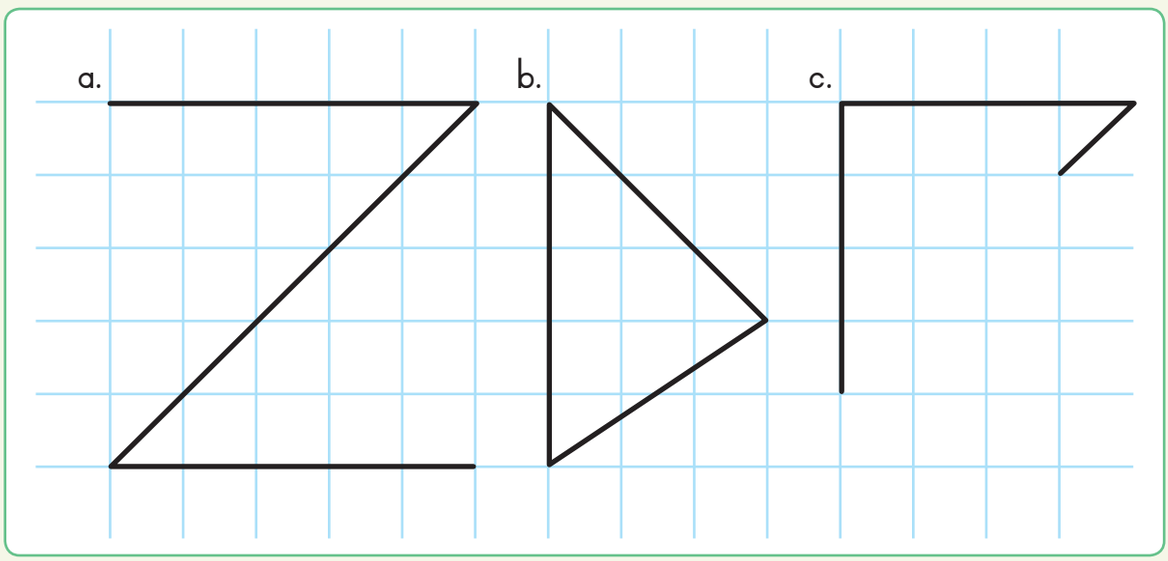
Senthimitha yo lapfa lungafhani?



Nomboro dzi re kha ruḽa dzo imela dzisethimitha.
Ri shumisa abiriviesheni kana tshiga cm.
Musi ni tshi shumisa ruḽa, ni tea u thoma u ela u bva kha 0.
Dziṅwe ruḽa a dzi sumbedzi 0 u fana na iyi i re kha siaṱari iḽi.
Wanani zero cm kha ruḽa. Ṅwalani 0 kha ruḽa.
10 cm i wanala ngafhi kha ruḽa? Ṅwalani 10 henefho.



Anganyani, ni kone u pima nga ngona nga ruḽa yaṋu, ṱhanganyelo ya vhulapfu ha mitaladzi iyi nga cm.



a. Anganyani ____ cm	b. Anganyani ____ cm	c. Anganyani ____ cm
Pimani (Elani) ____ cm	Pimani (Elani) ____ cm	Pimani (Elani) ____ cm



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Mutalo muṅwe na muṅwe wo lapfa lungafhani?

Mutalo muṅwe na muṅwe wo lapfa cm nngana?
Shumisani munwe waṉu uri u ni thuse kha u dzhia tsheo.

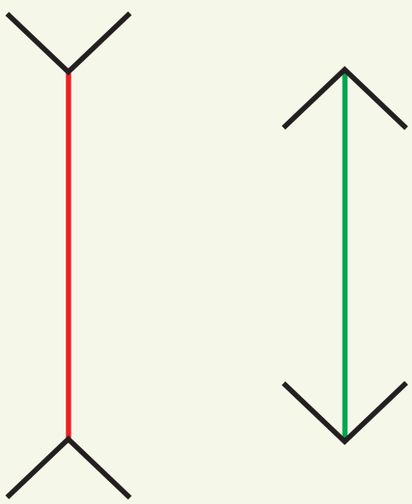
a. ——— ☐ cm	d. | ☐ cm
b. ——————— ☐ cm	e. ／ ☐ cm
c. — ☐ cm	f. ＼ ☐ cm



Ni na vhuṱanzi naa?

Ndi tshifhio tshi re tshilapfu, mutalo mutswuku kana mutalo mudala naa?

Ni nga zwi ṱola hani?





Izwi ndi zwine zwa vhidzwa u pfi vhuṱolo ha maṱo. Zwi ambiwa musi maṱo aṉu o itwa uri a vhone tshithu tshi siho. Mitalo mivhili i na vhulapfu hu no eḓana. Mitalo mitswu i no khou ṱoṱomotshela nnḓa i ita uri mutalo mutswuku u vhonale u mulapfu ngeno mitalo mitswu i no khou ṱoṱomotshela ngomu i tshi ita uri mutalo dala u vhonale u mupfufhi.



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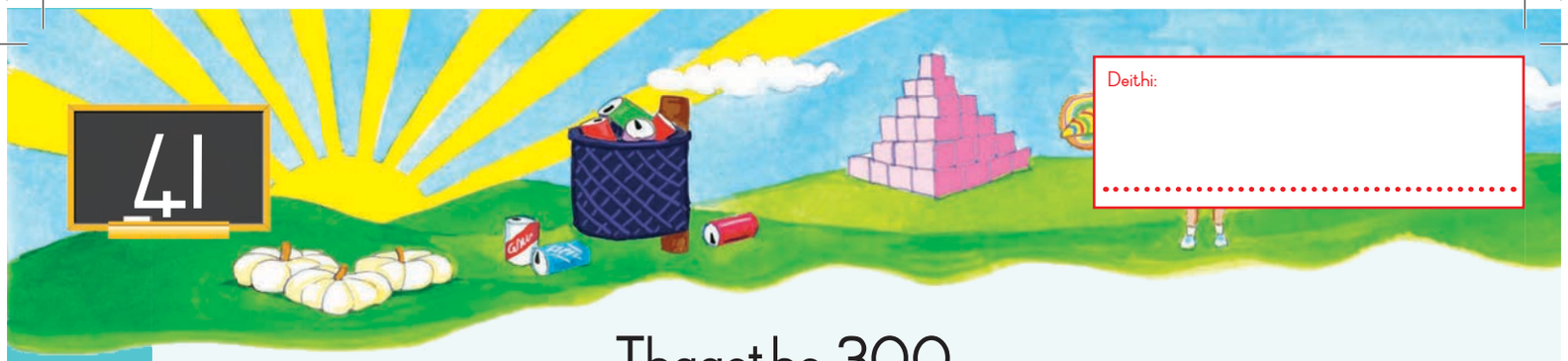


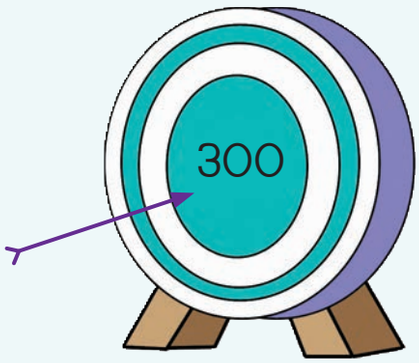
Deithi:

.....

Thagethe 300



Vhalani ni ṅwale 200



Vhalani u bva kha 201 u swika kha 300.

Sumbani ni tshi khou ralo u vhala.

Ni kone u thoma nga u dzhenisa nomboro afho zwibogisini zwa muvhala wa lutombo.

Ṅwalani nomboro dziṅwe dzo̱the.

201						207			210
211									
221									
231									
								249	
			254						
				265					
		273							280
281					286				
							298		300



Ṅwalani nomboro dza 10 dzi no tevhela 300.

300; _____; _____; _____; _____; _____; _____; _____; _____; _____



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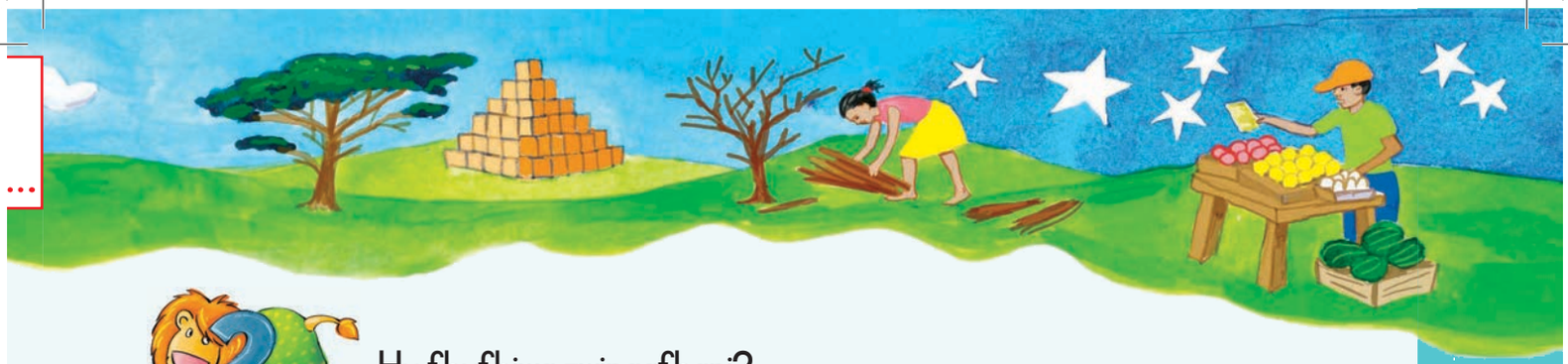

Hu fhufhiwa zwingafhani?

301		281					
		171					211
						101	

U sumbedza na u vhambedza

a. Ṅwalani nomboro dzine dza dzhena kha garaṱa iṅwe na iṅwe.

298; 208; 301; 276; 227; 269; 311

200

90

8

b. Ṅwalani nomboro idzi dzi tshi tou tevhekana u bva kha ṱhukhusa u ya kha khulwanesa.

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

Tshanduko ndi ifhio? Ṅwalani nomboro dzi no khou ṱahela.

Thomani	200	→ +25 →	225	→		→	237	→		→ 249
										↓
Gumani	300	←		←	286	←		←	278	← 261

Teacher:

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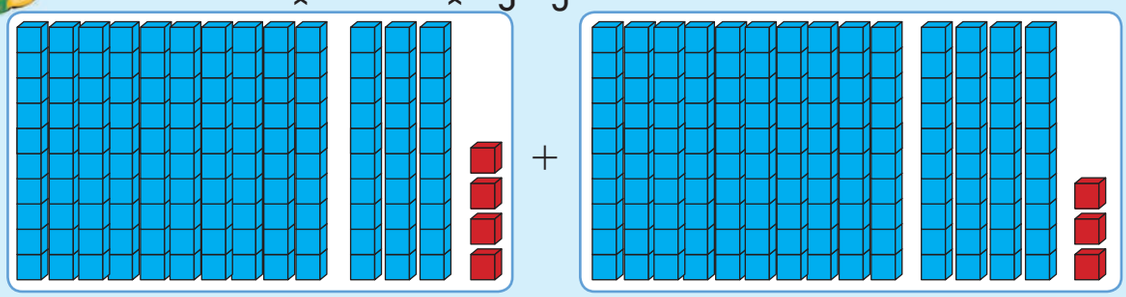
Deithi:

U ṱanganya na u ṱusa nga dzi100



U shumisa zwibuḽoko kha u ṱanganya



100 30 4 + 100 40 3

= 200 70 7

= 277



Tevhedzani ngona mbili. Sumbedzani phindulo iṅwe na iṅwe nga ndila mbili.

a. 132 + 123



Ndila ya Malindi

= 100 + 100 + 30 + 20 + 2 + 3

= 200 + 50 + 5

= 255



Ndila ya Dumi

132 + 123

= 200 + 50 + 5

= 255

b. 114 + 162

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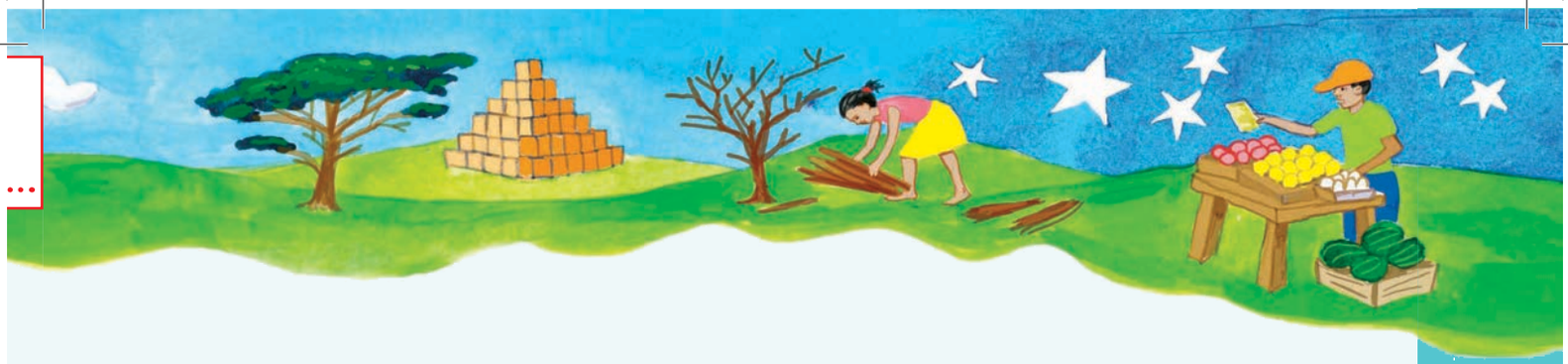

c. 276 + 148



Lavhelesani ndila dza avha vhathu ni ṱuse.

a. 158 – 146



Ndila ya Malindi

= 100 – 100 + 50 – 40 + 8 – 6

= 0 + 10 + 2

= 12



Ndila ya Dumi

158 – 146

= 0 + 10 + 2

= 12

b. 194 – 122

c. 288 – 199

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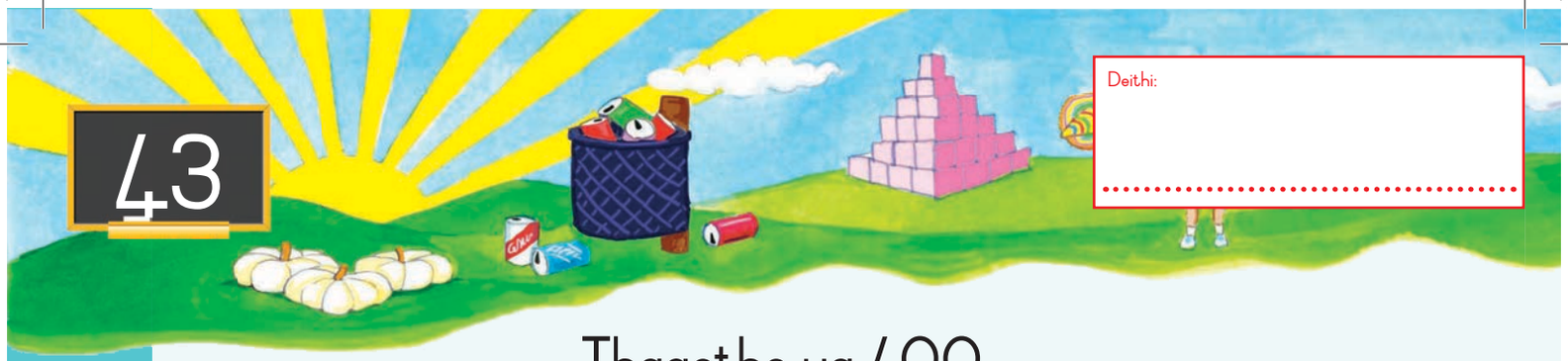


43

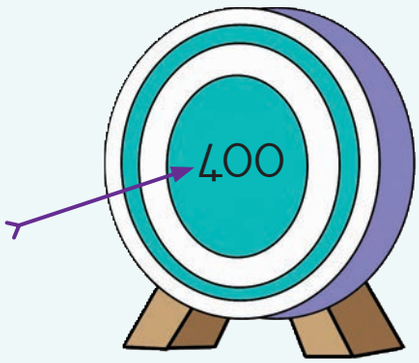
Deithi:

.....

Thagethe ya 400



U vhala na u ṅwala dzi400



U vhala u bva kha 300 u swika kha 400.

Bulani nomboro ni tshi khou ralo u vhala.

Ṅwalani nomboro dzi no khou ṱahela kha giridi.

301									310
				315					
									330
331				335					
								249	
				365			368		
		273							
									390
									400



Ṅwalani nomboro dza 9 dzi no tevhela 400.

400; _____; _____; _____; _____; _____; _____; _____; _____; _____;

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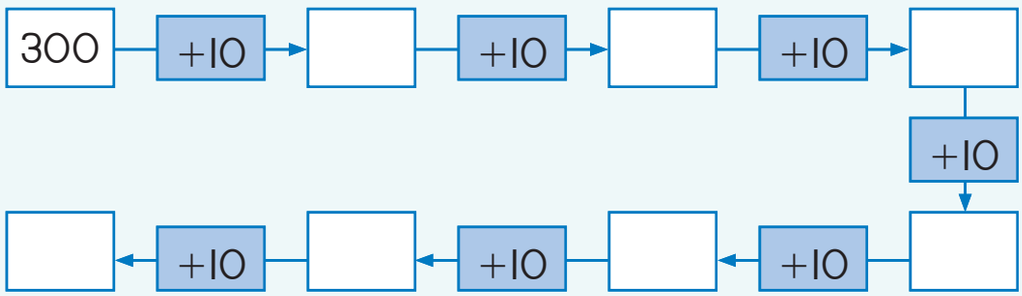
Tshanduko ndi if'hio?

a. U vhala ri tshi ya phanḓa u bva kha 300

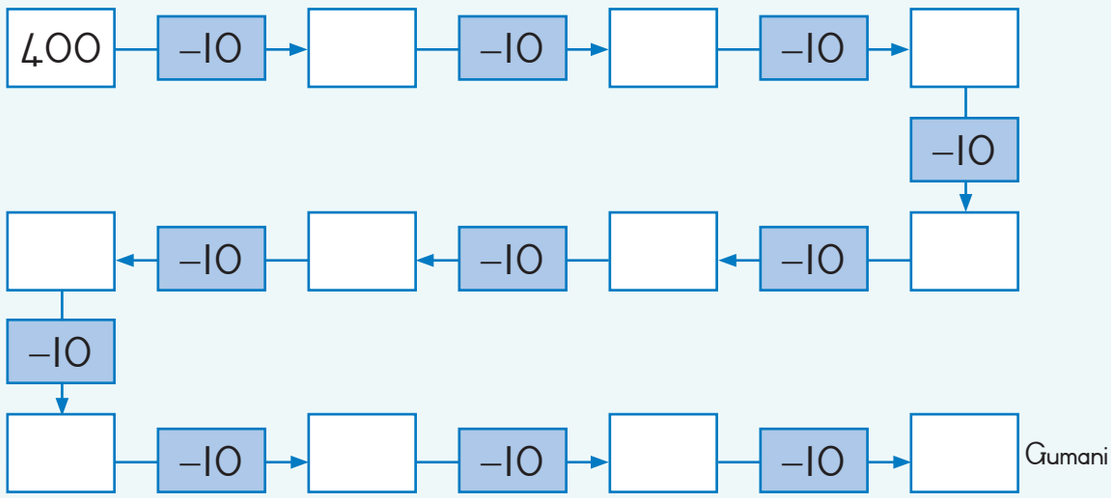
Thomani



Gumani

b. Vhalani u bva kha 300

Thomani



Gumani

Ṅwalani sa nomboro nthihi.

300 + 20 + 4 = _____	300 + 10 + 5 = _____
300 + 50 + 3 = _____	300 + 70 + 7 = _____
300 + 60 + 2 = _____	300 + 90 + 9 = _____
300 + 80 + 1 = _____	300 + 40 + 8 = _____

Ṅwalani nomboro idzi dzi tshi tou tevhekana u bva kha ṱhukhusa u ya kha khulwanesa.

_____, _____, _____, _____, _____, _____, _____, _____

Teacher:
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Date:

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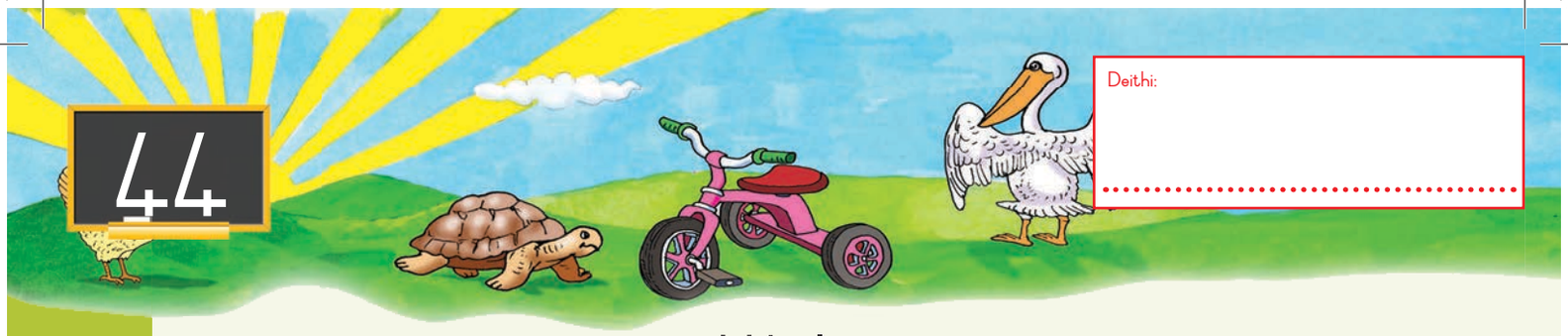


Deithi:

U kala

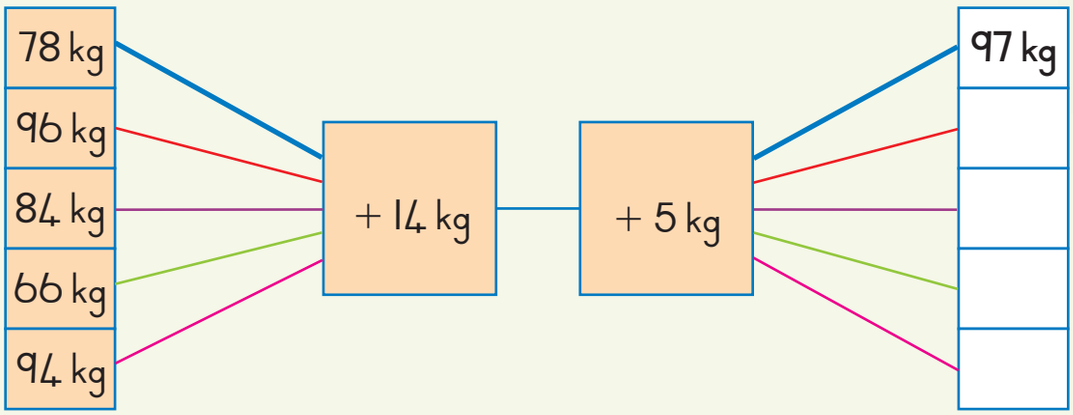


Nomboro ya tshipentshela

Ṱanganyani na u ṅwala phindulo.

Ndi a zwi ḓivha uri nomboro ya tshipentshela ndi ifhio! Inwi?

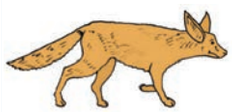
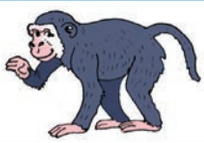






Sendedzani tsini ni ṱanganye!

Humbulani nga vhuṱali!

				
Phunguhwe kg dza 25	Tshibode kg dza 98	Pfeṇe kg dza 59	Mbiḓana kg dza 88	Pheḽikheni kg dza 9

Sendedzani tsini tshileme tsha tshipuka tshiṅwe na tshiṅwe tshi ḓe kha 10 kg ya tsinisa.

_____

Ṅwalani tshileme tsha tshipuka tshiṅwe na tshiṅwe tshi tevhekana nga ngona u thoma kha tshi no leluwa u ya kha tshi no lemela.

_____

Anganyani tshilemeguṱe tsha zwipuka zwa 5.

_____



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Ṱanganyani zwileme zwazwo

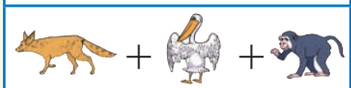


Ndi nga ḓi vha ndi sa lemeli u fana na inwi. Ndi tshibode tsha kale, fhedzi ndi na vhuṱanzi uri ndi na luvhilo!



Maga

- Shumisani zwivhalo zwaṋu zwo sendedzwaho tsini.
- Anganyelani tshileme tsha tshipuka tshiṅwe na tshiṅwe kha rou iṅwe na iṅwe.
- Vhalelani ṱhanganyelo.
- Vhambedzani ṱhanganyelo mbili ni ṅwale phambano.

	Ndi a anganyela	Ndi a vhalela	Phambano
			
			
			

Tshileme tsha Vusi

Ṱolani. Vhambedzani. Lulamisani.

Vusi u ṱanganyisa tshileme tshawe na tshileme tsha  na tsha  .

Ṱhanganyelo ya tshileme tshavho ndi kg dza 239. Vusi u lemela zwingafhani? Sumbedzani phindulo yaṋu.

Tshileme tshanga ndi tshingafhani?

Tambani kha tshigwada. Sielisanani ...

Ṱanganyisani tshileme tshaṋu na tshileme tsha zwiṅwe zwa zwipuka. Shumani ṱhanganyelo. Vhudzani phindulo tshigwada. Ni songo vha sumbedza mushumo waṋu! Vha tea u lingedza u shuma tshileme tshaṋu.

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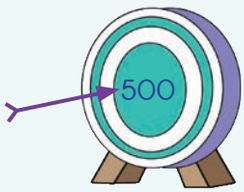
Deithi:

Thagethe 500



U vhala na u ṅwala

400



401				405					410
411									420
	422					427			
			434						
					446				
							458		
	462								470
		473				477			
481									490
								499	500

a. Vhalani u bva kha 400. Bulani nomboro ni tshi khou ralo u vhala.

b. Ṅwalani nomboro dzo ṱahelaho afho kha giridi.

c. Ṅwalani nomboro dza 9 dzi no tevhela 500.

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

d. Vhalani nga 2. Ṅwalani nomboro dza 8 dzi tevhelaho nga phetheni ya 2.

400; 402; _____; _____; _____; _____; _____; _____; _____; _____

e. Vhalani nga 5. Ṅwalani nomboro dza 8 dzi tevhelaho nga phetheni ya 5.

400; 405; _____; _____; _____; _____; _____; _____; _____; _____

1 2 3 4 5 6 7 8 9 10

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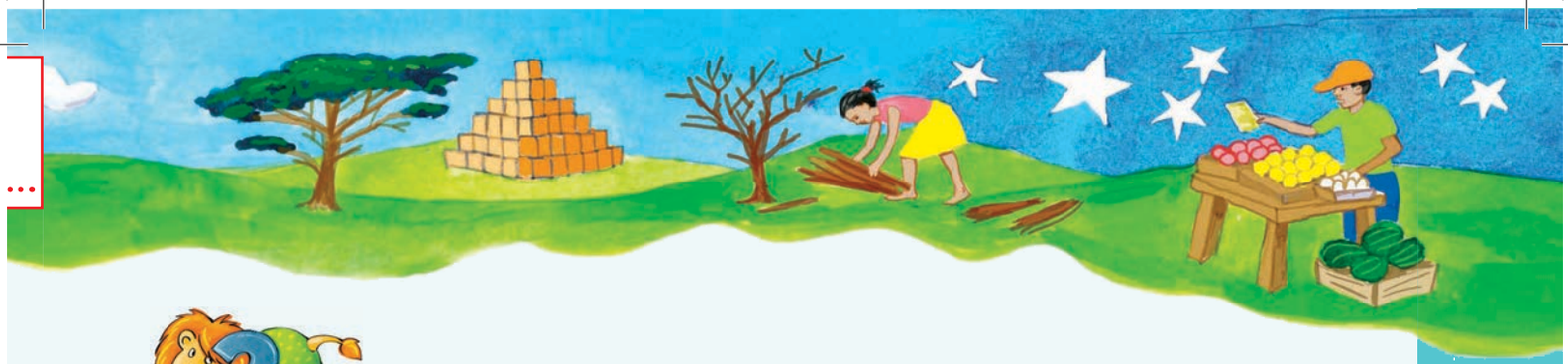



Tshanduko ndi if'hio?

a. Vhalani ni tshi ya murahu u bva kha 400.

Thomani: 400 → +20 → ☐ → +30 → ☐ → +10 → ☐ → +10 → ☐

Gumani: ☐ ← +50 ← ☐ ← +10 ← ☐ ← +20 ← ☐

b. Vhalani ni tshi ya murahu u bva kha 500.

Thomani: 500 → −2 → 498 → ☐ → 496 → ☐ → 494 → ☐ → 484 → ☐ → 474 → ☐ → 454 → ☐ → 434 → ☐ → 414 → ☐ → 404 → ☐ → 402 → ☐ → 400 Gumani



U sumbedza nomboro. Tevhedzani tsumbo.

Wanani ṱhanganyelo ya nomboro idzi. Shumisani garaṱa dza nomboro ni tshi sumbedza ṱhanganyelo iṅwe na iṅwe.

405 + 10	415	400 + 10 + 5
446 + 10		
455 + 10		

398 + 10		
424 + 10		
460 + 20		

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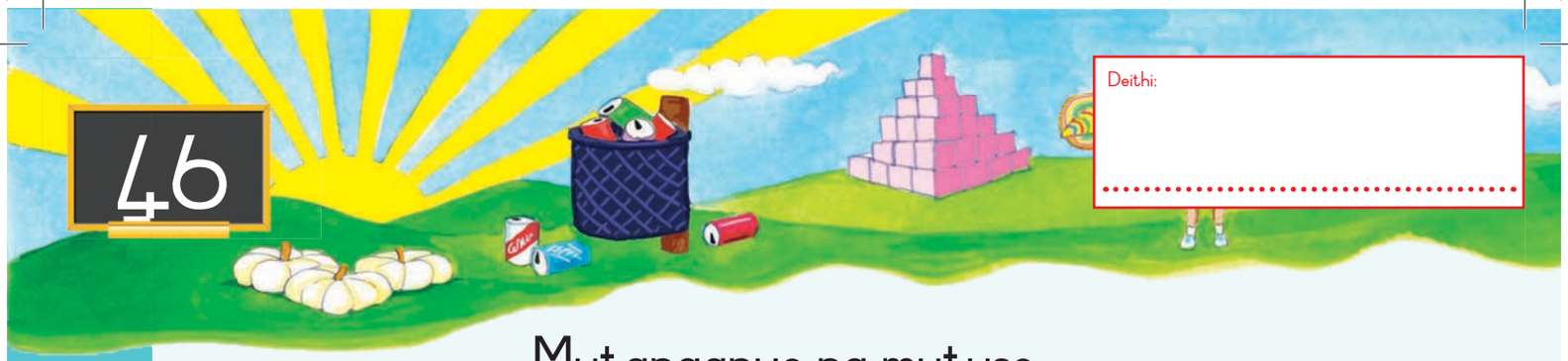

46

Deithi:

Themo ya 2

Muṭanganyo na muṭuso

Ni vhona mini?

200 50 4 200 30 5	400 80 9	489



Ri khou ya u shumisa nḓila ya Malindi na ya Dumi hafhu kha u ṭanganya.

a. 245 + 231



Nḓila ya Malindi

= 200 + 200 + 40 + 30 + 1

= 400 + 70 + 1

= 471



Nḓila ya Dumi

245 + 231

= 400 + 70 + 6

= 471

b. 278 + 136

c. 265 + 148

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Ri khou ya u shumisa ndila ya Malindi na ya Dumi hafhu kha u tusa.

a. 476 – 324



Ndila ya Malindi

= 400 – 300 + 70 – 20 + 6 – 4

= 100 + 50 + 2

= 152



Ndila ya Dumi

476 + 324

= 100 + 50 + 2

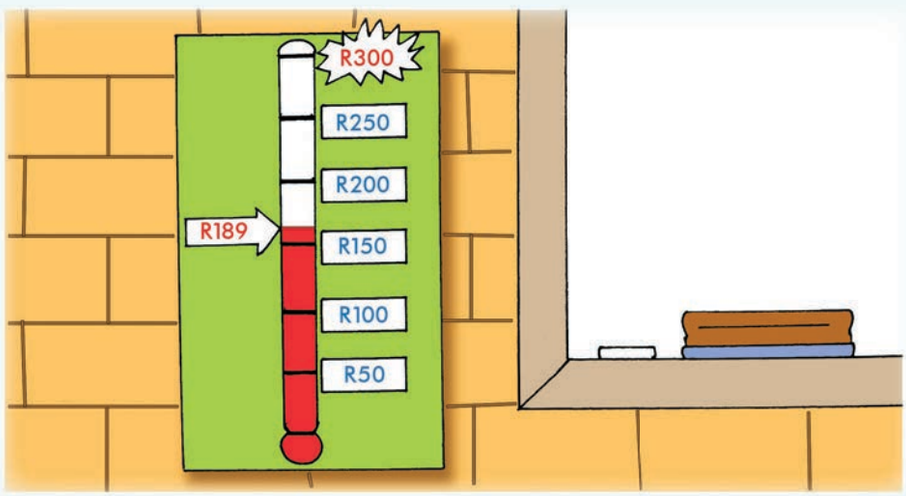
= 152

b. 489 – 456

c. 482 – 161



Ro swika kha thagethe



Lavhelesani tshifanyiso.

Hu todea zwingana u itela u swika kha thagethe? R

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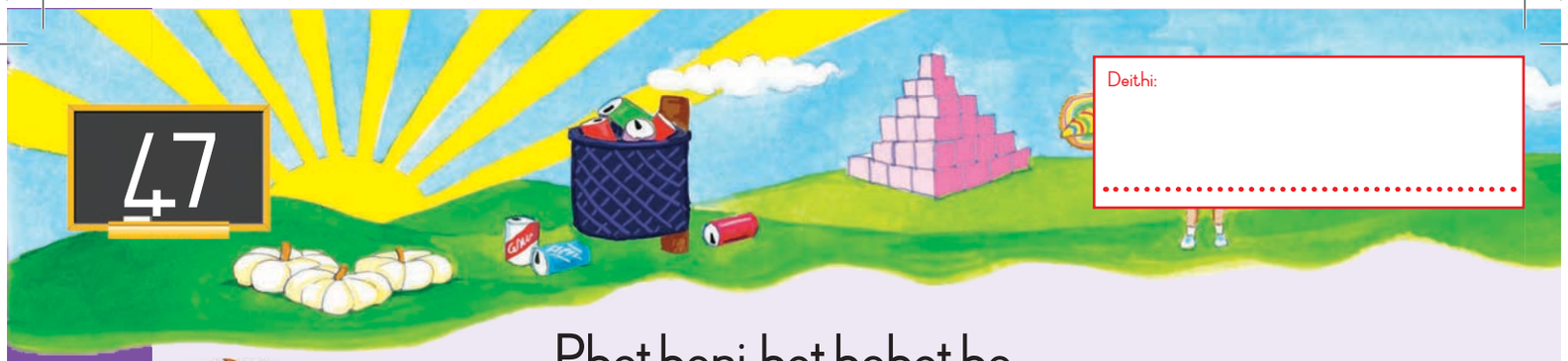

47

Deithi:

Themo ya 2

Phetheni hoṱhehoṱhe



Thavha ya tshiphiri

Dzina ḽa thavha khulwanesa Gauteng ndi ḽifhio? Shumisani khoudu kha u ḽi wana. Livhanyani phindulo iṅwe na iṅwe i re kha thebuḽu na ḽeḓere ḽi re kha khoudu.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Tshivhalo tsha vhusevheḓi	Phindulo	Ḽeḓere
Tsumbo: $2 \times 3 \times 3 \times 1 = \square$	18	R
$50 + 50 + 50 + 100 - 200 - 45 = \square$		
$1 + 2 + 7 + 10 + 7 + 1 - 14 = \square$		
$60 - 30 + 50 + 20 - 50 - 15 - 20 = \square$		
$3 + 2 + 7 + 1 + 2 + 1 + 3 = \square$		
$5 + 3 + 30 = 4 + 2 + 12 + \square$		
$100 - 5 - 70 = 20 + \square$		
$36 + 44 - 60 - 22 = \square$		
$10 + 15 = 14 + \square$		
$2 + 1 + 14 + 9 + 14 = 25 + \square$		
$1 \times 2 \times 2 \times 2 \times 2 = \square$		

Dzina ḽa thavha ndi

1 2 3 4 5 6 7 8 9 10

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Lavhelesani, ni humbule, ni f'hindule!

●	✷	☾	✷	●	●	✷	☾	✷	●	●	✷	☾	✷	●
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

a.

Nomboro ya 16 i ḓo dzhia tshivhumbeo tshif'hio? Swayani (✓) kha tsho teaho. ✷ ● ☾

Nomboro ya 18 i ḓo dzhia tshivhumbeo tshif'hio? Swayani (✓) kha tsho teaho. ✷ ● ☾

Nomboro ya 23 i ḓo dzhia tshivhumbeo tshif'hio? Swayani (✓) kha tsho teaho. ✷ ● ☾

b.

Nomboro 50 i ḓo vha ✷.	Ndi zwone kana a si zwone?
Nomboro 100 i ḓo vha ●.	Ndi zwone kana a si zwone?
Nomboro 28 i ḓo vha ☾.	Ndi zwone kana a si zwone?



Sedzulusani. Vhambedzani. Lulamisani



Ndi zwif'hio zwi re zwinzhi?

U wana tshelede ya u ḽa ya R2,50 nga ḓuvha nga Fulwi na Fulwana.

Kana u wana R150 nga dzil dza Ṱhangule.

Sumbedzani uri no zwi wanisa hani.

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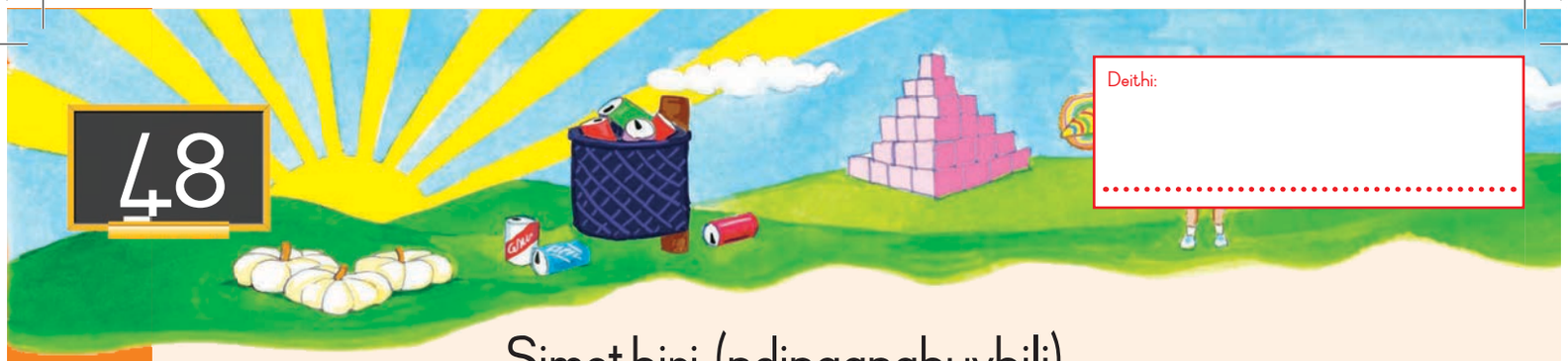


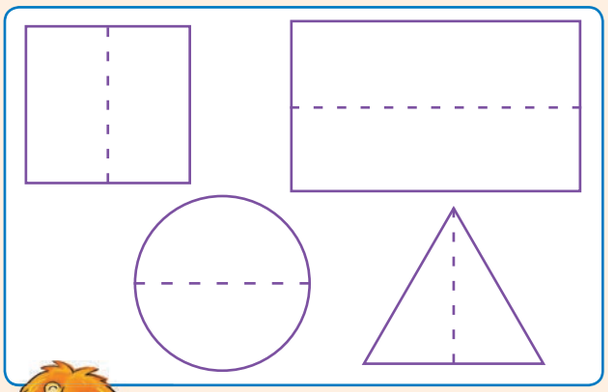
48

Deithi:

Themo ya 2

Simethiri (ndinganahuvhili)

Ni zwifhio zwine na zwi vhona kha zwivhumbeo izwi?



Mutalo wa simethiri (ndinganahuvhili) u fhandula tshivhumbeo tsha bva hafu mbili u itela uri hafu iṅwe na iṅwe i fane na iṅwe sa kha tshivhoni.

Tshivhumbeo tshi na simethiri arali ni tshi nga tshi peta kha mutalo wa simethiri u itela uri hafu mbili dzi fane kwakwakwa



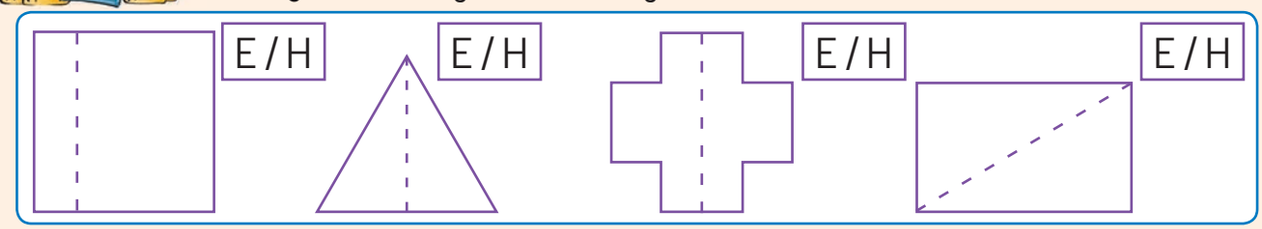


Talani mutalo wa simethiri kha tshivhumbeo tshiṅwe na tshiṅwe.





Uyu mutalo wa zwithomathoma ndi mutalo wa simethiri kana hai?
Tangedzelani (E) ya Ee kana (H) ya Hai.





Uyu mutalo ndi wa simethiri? Ngani?

1 2 3 4 5 6 7 8 9 10

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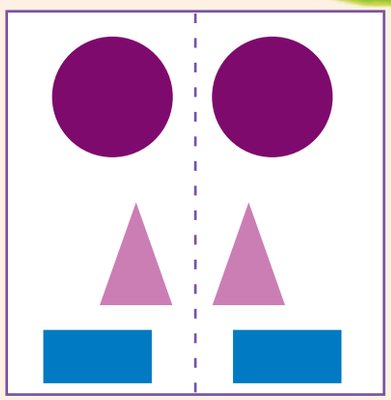
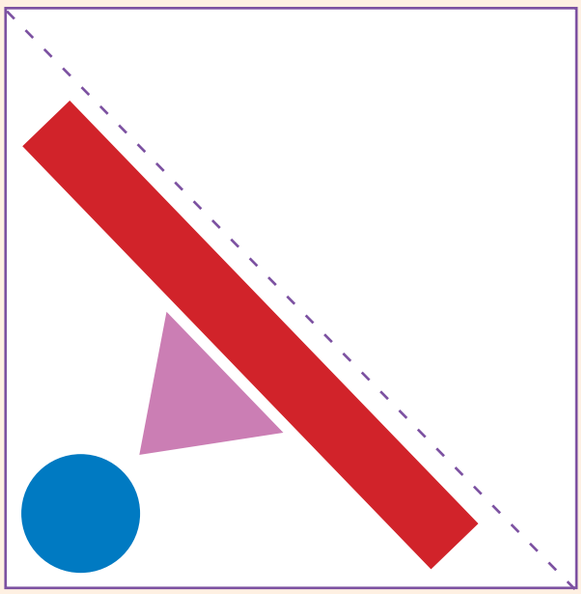
Olani zwivhumbeo ni ite uri tshifanyiso tshi vhe simethiri.

Ro dzula ro ni itela tsha u thoma

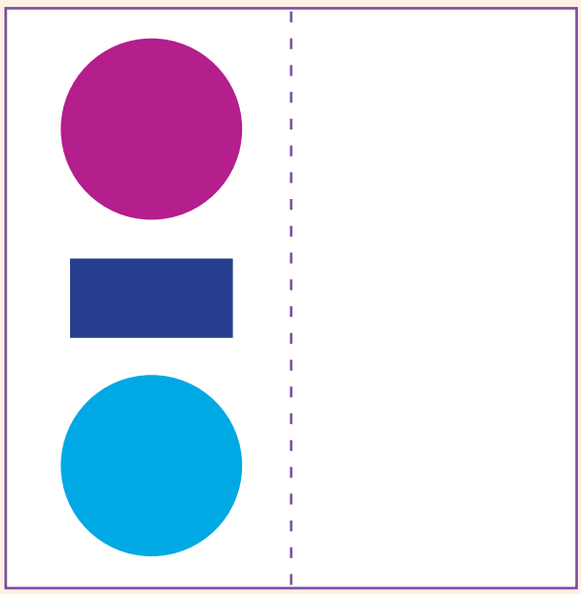
a.



b.



c.





Ḓiiteleni khaphethe yaṋu inwi muṋe ya simethiri ni tshi shumisa zwivhumbeo.



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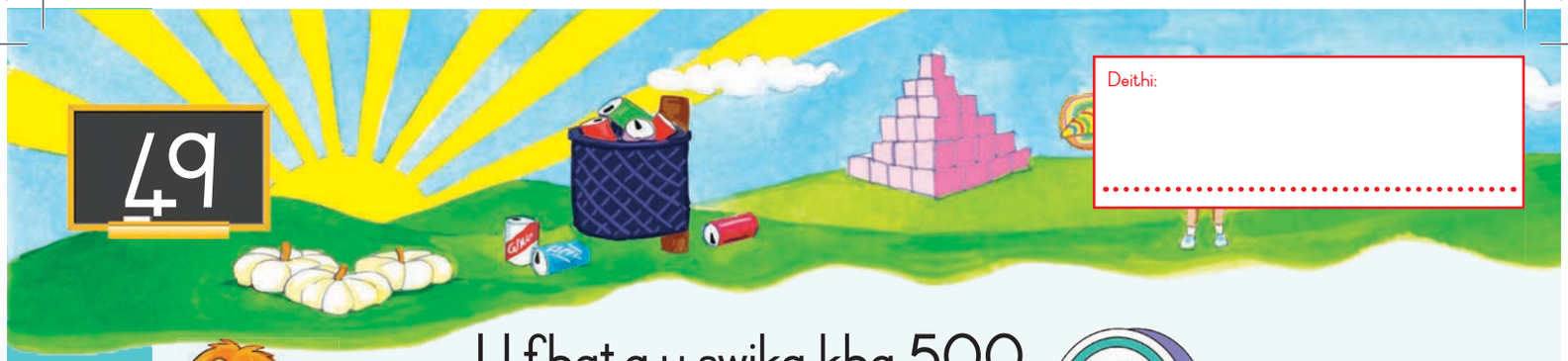


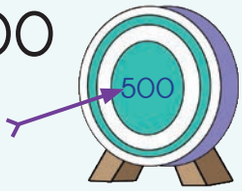
49

Deithi:

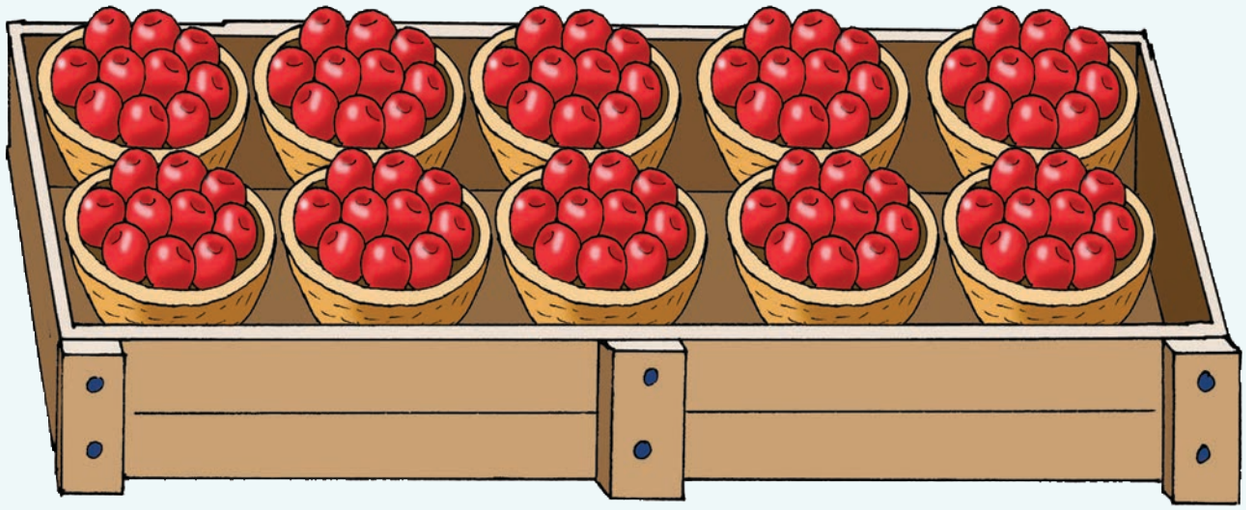
.....

U fhaṱa u swika kha 500





U vhalela maapula



Fhedzisani na u andisa

basikiti (tshithatha) ya 1 i hwala maapula a _____.	$1 \times 10 = 10$
basikiti (zwithatha) ya 3 i hwala maapula a _____.	$3 \times 10 =$
basikiti (zwithatha) ya 5 i hwala maapula a _____.	
basikiti (zwithatha) ya 4 i hwala maapula a _____.	
basikiti (zwithatha) ya 2 i hwala maapula a _____.	

khireiti ya 1 i hwala maapula a 100.	khireiti dza 2 dzi hwala maapula a _____
khireiti dza 3 dzi hwala maapula a _____	khireiti dza 4 dzi hwala maapula a _____
khireiti dza 5 dzi hwala maapula a _____	khireiti dza 2 dzi hafu dzi hwala maapula a ___

1 2 3 4 5 6 7 8 9 10

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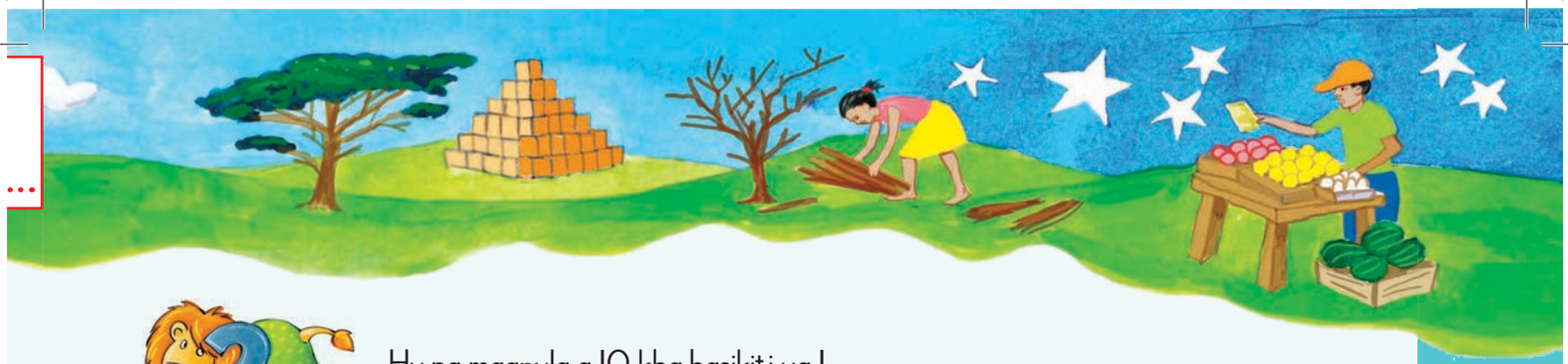
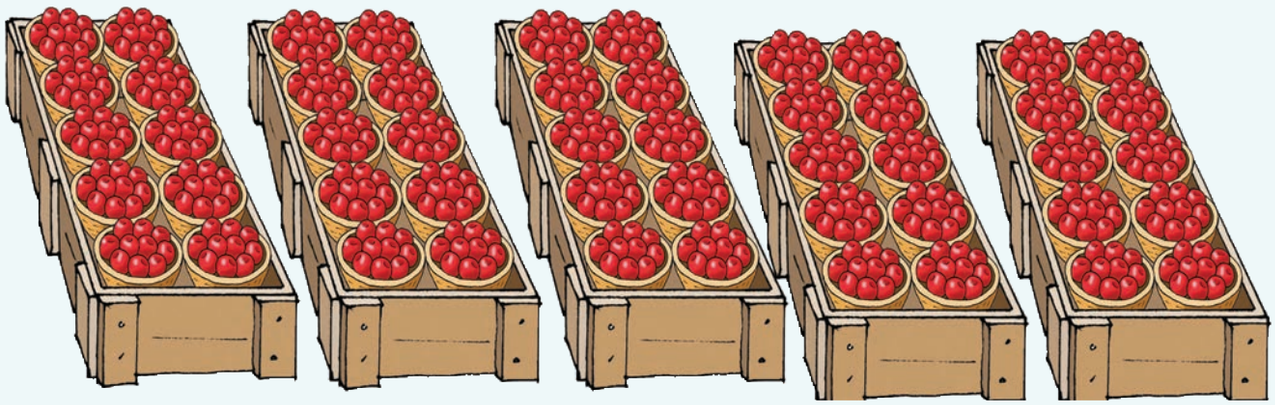


Hu na maapula a 10 kha basikiti ya 1.

Hu na basikiti ya _____ kha khireiti nthihi.
Hu na maapula a _____ kha khireiti nthihi.
Hu na maapula mangana o ṱangana oṱhe? _____





U rekanya; u sumbedza na u ṅwala

3 0 0 4 0 5

Thomani nga u shumisa garaṱa dza nomboro ni tshi sumbedza ṱhanganyelo iṅwe na iṅwe. Ni kone u dzhenisa nomboro.

khireiti dza 3 + basikiti dza 4 + maapula a 5 = maapula a 345
khireiti dza 4 + basikiti dza 5 + maapula a 7 = maapula a ___
khireiti dza 5 + basikiti dza 2 + maapula a 3 = maapula a ___
khireiti dza 4 + basikiti dza 7 + maapula a 2 = maapula a ___

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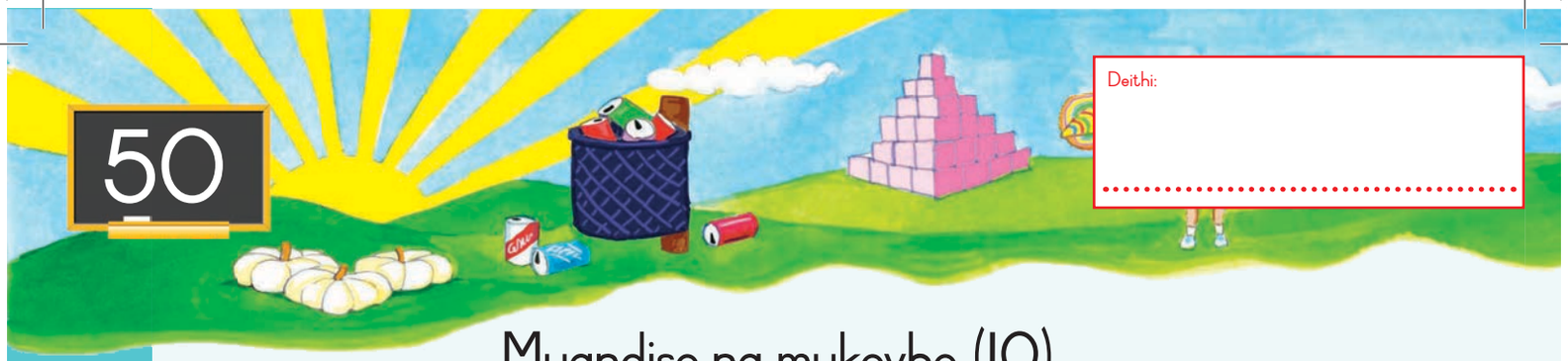


50

Deithi:

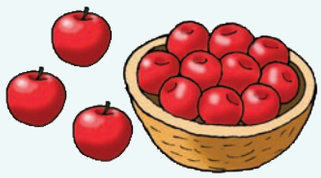
.....

Muandiso na mukovho (10)



U vhala maapula

Ḓadzani thebuḽu.



Ndi basikiti (zwithatha) nngana dzo hwalaho maapula?

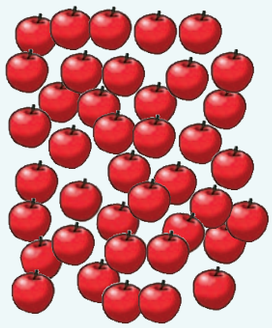
Maapula	10	20	30	40	50
Basikiti	1	2			
Mbalo ya ÷					50 ÷ 10 = 5
Mbalo ya ×					5 × 10 = 50



Kovhelani vhana maapula. Olani tshifanyiso (nyolo)

a.









Sedzulusani phindulo dzaṋu.

□ ÷ □ = □

□ × □ = □





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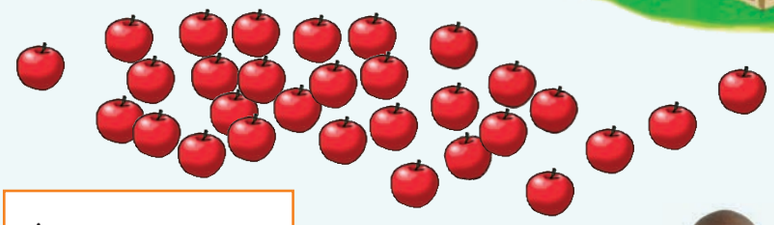
b.







Ṅwalani mbalo ya ÷

Ṅwalani mbalo ya a × ni tshi sedzulusa (ṱola) phindulo dzaṋu





Tsumbo

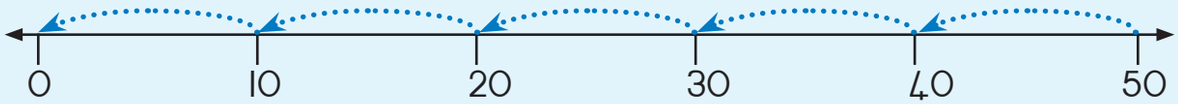
Shumisani nomboro kha u vhumba maf hungombalo aṋu inwi muṋe.



÷	40 ÷ 10 = 4

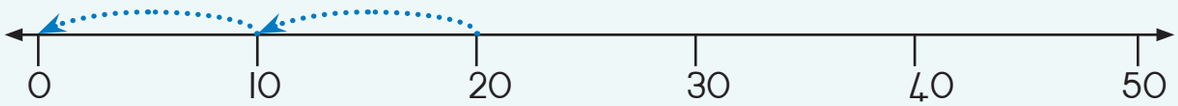
×	4 × 10 = 40

a.



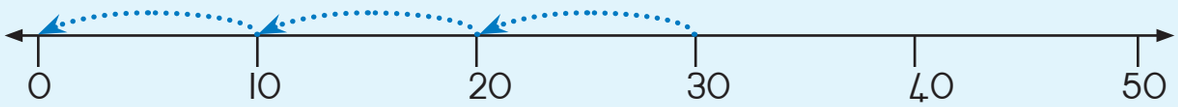
÷		×	

b.



÷		×	

c.



÷		×	



Ṅwalani nomboro i re ṱhukhu nga 10 na khulwane nga 10 khe ye na ṋewa.

_____, 460, _____	_____, 390, _____	_____, 500, _____

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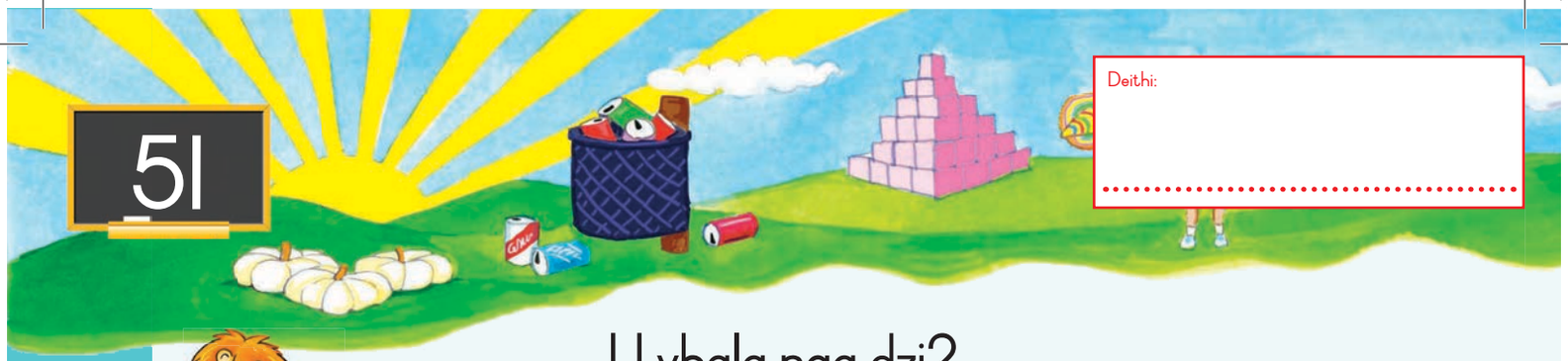

51

Deithi:



U vhala nga dzi2

U vhala ri tshi ya phanḓa na murahu nga dzi2

a. 232; 234; _____; _____; _____; 242; _____; _____; 248

b. 500; _____; 496; _____; _____; 490; _____; _____; _____

c. 460; _____; _____; 400; _____; 360; _____; _____; _____

d. 341; _____; 361; _____; _____; 391; _____; 411; _____; _____



Phere dza magiḽavu



a. Hu na phere nngana dza magiḽavu kha rou iṅwe na iṅwe? _____

b. Hu na magiḽavu mangana mathihi a re kha rou iṅwe na iṅwe? _____

c. Hu na rou nngana? _____

d. Hu na magiḽavu mangana o ṱangana oṱhe? _____

e. Sumbedzani uri no zwi wana hani.

f. Ṅwalani phindulo yaṋu sa fhungombalo.

_____ × _____ = _____

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Ndi magiḽavu mangana?

U ṅwala kha thebuḽu.

a.

Phere ya magiḽavu	I	10	5	50	4	40	3	30	100
Tshivhalo tsha magiḽavu	2								

b.

Giḽavu ḽi si na mungana (singili)	20	21	70	73
Phere dzine dza nga itwa				
Magiḽavu a si na mungana (a singili)o salaho				



U v hala nga mbili

a. Ndi nomboro if hio i no ḓa vhukati ?

264, _____, 268	391, _____, 395	414, _____, 410

b. Ṅwalani momboro mbili dzi no tevhela iyi.

373, 375, 377 , 379	480, 482, _____, _____	262, 264, _____, _____

c. Ṅwalani momboro mbili dzi no tevhela iyi.

346, 348, _____, _____	415, 417, _____, _____	297, 299, _____, _____

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Deithi:

U dzhenisa dzithailisi



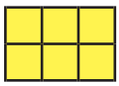
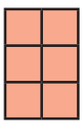
U pulanela ngade



Mufumakadzi Vho Mabena vha na dzithailisi dza u naka.

Vha dzi shumisa kha u pheiva huṅwe fhethu ngadeni yavho.

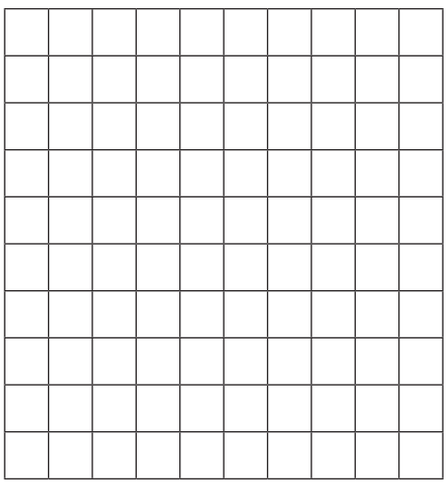
Hu na dzithailisi dza zwikwea zwa 6 zwa saizi nthihi.

Ndi nga ita rou ya 1 nga dzithailisi dza 6.	Ndi nga ita rou dza 2 dzi na dzithailisi dza 3 kha rou.	Ndi nga ita rou dza 3 dzi na dzithailisi dza 2 kha rou iṅwe na iṅwe.
		
$6 \times 1 = 6$	$3 \times 2 = 6$	$2 \times 3 = 6$

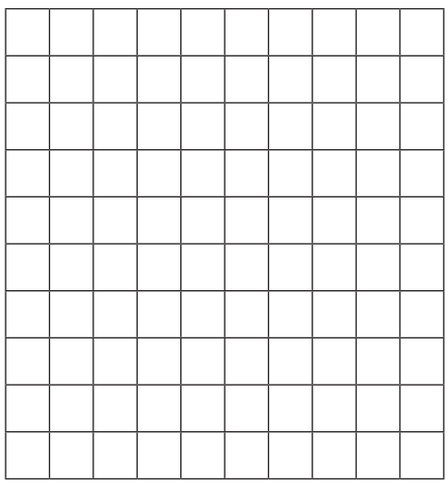
Zwino ndi tshifhinga tshaṇu!

Olani zwibuḽoko u sumbedza uri ni nga vhekanya hani dzithailisi dza zwikwea zwa 8 na 9.

zwikwea zwa 8



zwikwea zwa 9



Ṅwalani mafhungombalo a nyolo iṅwe na iṅwe.

1 2 3 4 5 6 7 8 9 10

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U dzudzanya dzithailisi dza 12

Mukundi u na thailisi dza zwikwea zwa 12 dza u pheiva tsini na nnḓu. Mu thuseni a wane nḓila dzoṱhe dza u ita izwi. Ṅwalani fhungombalo ḽa nḓila iṅwe na iṅwe.

Tsumbo:	$1 \times 12 = 12$ $12 \times 1 = 12$



U dzudzanya dzithailisi dza 24

- Shumisani giridi i re kha tshigeriwa tsha 2.
- Swifhadzani zwibuḽoko zws 24 nga nḓila dzo fhambanaho.
- Ṅwalani mafhungombalo u livhanyisa nyolo iṅwe na iṅwe.



Ndi a kona u andisa!

$12 = 2 \times$ ☐	$3 \times$ ☐ $= 12$	$9 =$ ☐ $\times 3$
$6 = 3 \times$ ☐	☐ $\times 3 = 12$	$24 = 3 \times$ ☐

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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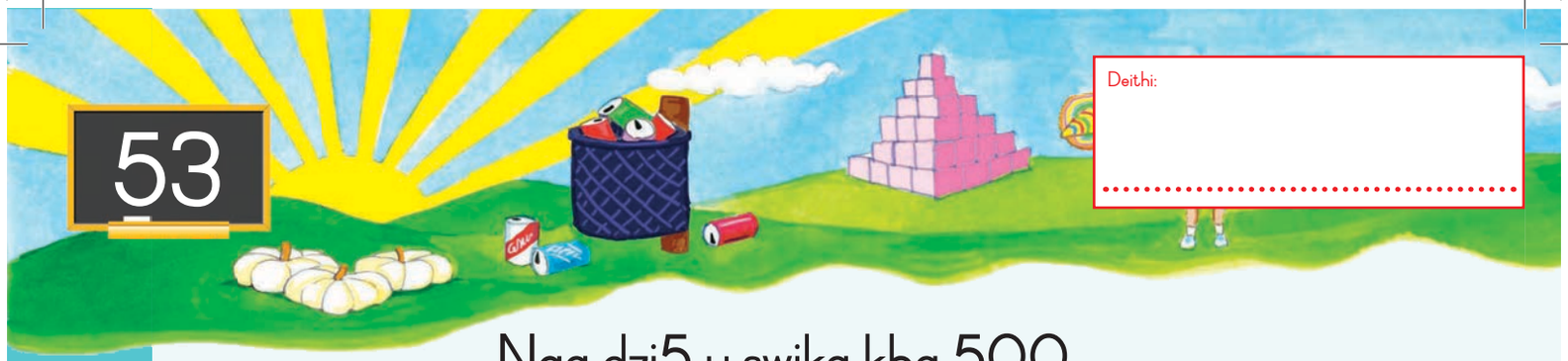


Deithi:

Nga dzi5 u swika kha 500



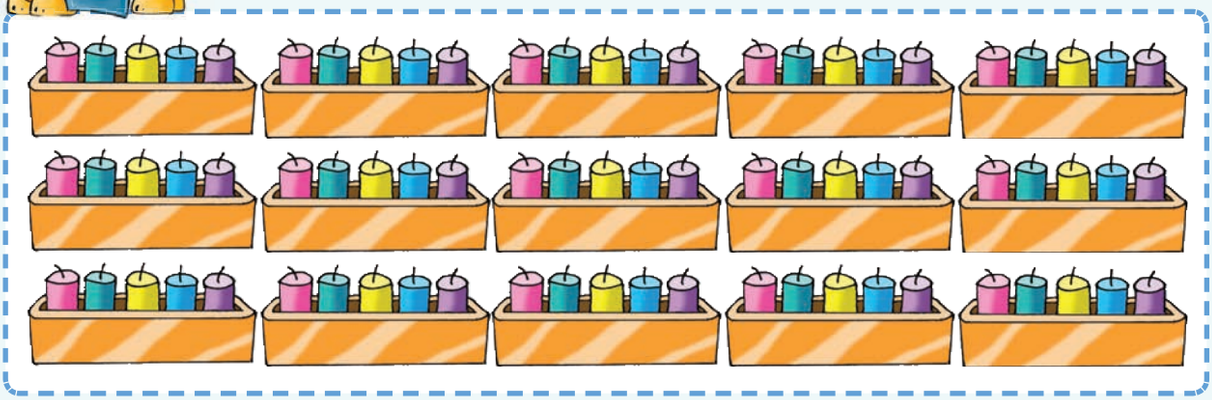
U ṱalukanya 5 dzaṋu

U ṅwala phindulo.

	1	2	3	4	5	6	7	8	9	10
× 5	5									



U vhala makhaṋḓela



a. Hu na makhaṋḓela mangana bogisini ḽiṅwe na ḽiṅwe?

b. Hu na mabogisi mangana kha rou iṅwe na iṅwe?

c. Hu na makhaṋḓela mangana kha rou iṅwe na iṅwe?

d. Hu na makhaṋḓela mangana o ṱangana oṱhe?



U sumbedza phindulo

Swayani (✓) maf'hungombalo ane a sumbedza ṱhanganyelo ya tshivhalo tsha makhaṋḓela.

a. 5 × 3 × 3 = ☐ b. 15 × 3 = ☐ c. 3 × 5 × 5 = ☐ d. 15 × 5 = ☐

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U vhala ni tshi ya phanḓa na murahu nga 5

a. 85; _____; _____; 70; _____; _____; 55; _____; _____

b. 240; _____; _____; 255; _____; _____; _____; _____; 280

c. 405; _____; 395; _____; _____; 380; _____; _____; 365; _____

U kuvhanganya khoini dza R5



Vhana vha kuvhanganya khoini dza R5. Ndi R5 nngana dzine vha ḓo ṱoḓa dza u ita?

R5 ÷ R5= 1 khoini	R10 ÷ R5= 2 khoini	R15? ____	R20? ____	R25? ____
R30? ____	R35? ____	R40? ____	R45? ____	R50? ____

2 × R5 = R ____

4 × R5 = R ____

3× R5 = R ____

6 × R5 = R ____

Ni a kona u vhona phetheni?



U andisa nga 5

Tsumbo: 1 × 5 = 5; 11 × 5 = 55; 21 × 5 = 105

Humbulani nga vhuṱali! Fhaṱani nga ndivho ine na vha nayo!

1	2	3	4	5	6	7	8	9	10
5	10								
11	12	13	14	15	16	17	18	19	20
55									

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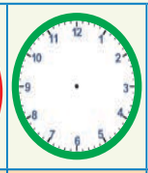
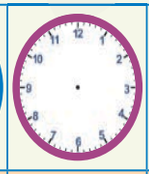
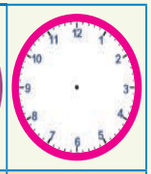
Deithi:

U shuma nga tshifhinga



U ola zwifhinga



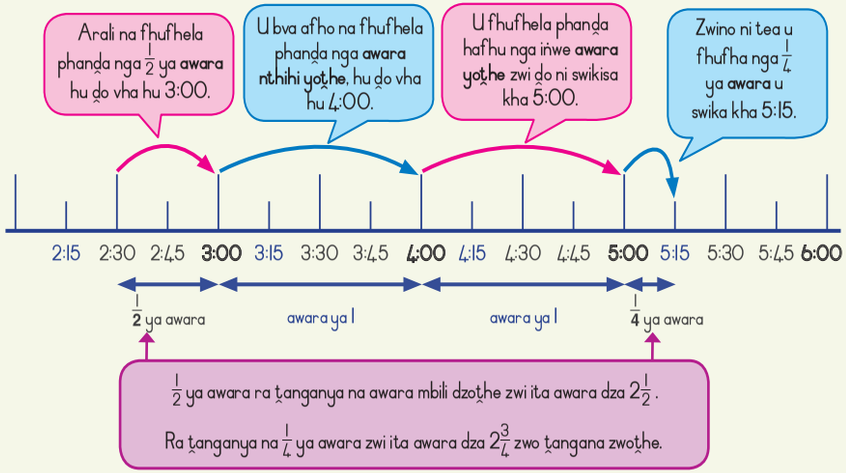
					
Hafu u bva kha awara ya 5	Kotara u ya kha awara ya vhufumithihi	Kotara u bva kha awara ya 12	12:45	6:15	4:30



Thaidzo dza tshifhinga

Mme a Tshililo vha bva hayani nga 2:30.
Vha vhuya nga 5:15.
Vha vha vha siho lwa tshifhinga tshingafhani?

Ri nga shumisa tsumbatshifhinga ya zwiwo zwa ndeme kha u shuma phindulo. Vheani munwe waṋu kha 2:30, tshifhinga tshine tsha vha tshone zwino.





Mbalo dza tshifhinga

Tandululani mbalo iṅwe na iṅwe.

Ṱolani. Vhambedzani. Lulamisani.

Shumisani tsumbatshifhinga ya zwiwo zwa ndeme uri i ni thuse.

a. Lutendo u ya u ṱolela khotsi awe kiliniki nga 15:45.



U huma nga 17:15.

O fhedza tshifhinga tshingafhani?

_____

b. Mulalo u ya phakhani nga 10:45.



U humela hayani nga 12:30.

O vha o ṱuwa tshifhinga tshingafhani?

_____

c. Tumi u thoma u vhala nga 13:15.



U fhedza nga 14:45.

Tumi u vhala tshifhinga tshingafhani?

_____

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Deithi:

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Deithi:

Vhalani nga dzi3 na dzi4



Bodo dzi re na milenzhe ya 3

Ṱanganyani ni ṅwale phindulo.



a. Hu na bodo nngana kha rou? _____

b. Hu na milenzhe mingana kha rou? _____

c. Hu na rou nngana dza bodo? _____

d. Hu na milenzhe mingana yo ṱangana yoṱhe? Sumbedzani uri no zwi shuma nga ndilaḓe.

(✓) Ndi mafhungombalo afhio a re afho fhasi a no sumbedza ṱhanganyelo?

21 × 7 = ☐ 3 × 7 × 3 = ☐ 3 × 4 × 2 = ☐ 21 × 3 = ☐



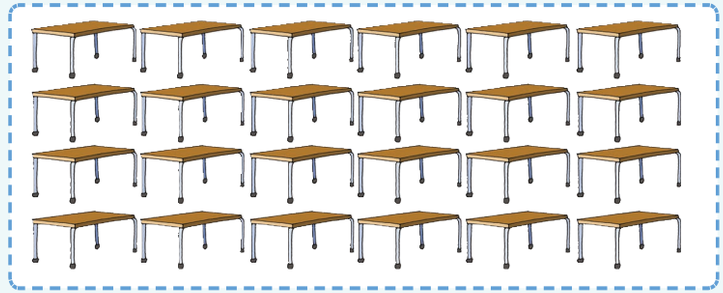
Hu na milenzhe mingana?

Elekanyani nga u ṱavhanya
Elekanyani nga vhuṱali

bodo ya 1	milenzhe ya 3	bodo dza 10	milenzhe ya	bodo dza 5	milenzhe ya
bodo dza 2	milenzhe ya	bodo dza 15	milenzhe ya	bodo dza 12	milenzhe ya
bodo dza 5	milenzhe ya	bodo dza 13	milenzhe ya	bodo dza 14	milenzhe ya



Milenzhe ya ṱafula



a. Hu na ṱafula nngana kha rou? _____

b. Hu na milenzhe mingana kha rou? _____

c. Hu na rou nngana dza ṱafula? _____

d. Hu na milenzhe mingana yo ṱangana yoṱhe? Sumbedzani uri no zwi shuma nga ndilaḓe.



Femeni



Muvhaḓi u ita ṱafula. U thoma nga u vhaḓa milenzhe.

O no vhaḓa milenzhe ya 48 u swika zwino. Ndi ṱafula nngana dzine a nga ita? ☐

U ḓo ṱoḓa milenzhe mingana uri a ite ṱafula iṅwe nthihi? ☐



Fhedzisani giridi nga u fhindula mbudziso.

	2	3	4	5	8	10	11	12
× 3	6							
× 4	8							

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Deithi:

Vhalani nga dzi50



Nwana muthihi, nguvho nthihi!

Hu na vhana vhangana? Anganyelani, ni kone u vha vhala.









Vhana vhoṱhe vha re tshifanyisoni itshi vha fhiwa nguvho. Ndi vhana vhangana vha re hone? ____		
Anganyelani	Vhalani	Vhambedzani
Ndi ☺ vhatukana vhangana? ____ Ndi ☺ vhasidzana vhangana? ____		



Vha badela vhugai?

Mafhungo  u renga  a 2.

U badela R

Mufumakadzi Vho Singo  vha renga  a 5.

Vha badela R



Vha vhengele ḽa Thembi Stores 

ḽi renga  a 20.

Vha renga R

 a 5 nga R50 = R250	 a 10 nga R50 = R500
 a 4 nga R50 = R____	 a 15 nga R50 = R____
 a 3 nga R50 = R____	 a 6 nga R50 = R____
 a 7 nga R50 = R____	 a 12 nga R50 = R____
 a 8 nga R50 = R____	 a 9 nga R50 = R____



Zwi ḓo dzhia tshifhinga tshingafhani? Shumisani khaḽenda.

Kiḽasi ya Gireidi ya 3 i kuvhanganya tshelede ya u renga nguvho dza 4.

Vha kuvhanganya R5 nga ḓuvha kha maḓuvha a 5 nga vhege.

Vha lila vhege nngana dza u kuvhanganya tshelede ya u renga mabai?



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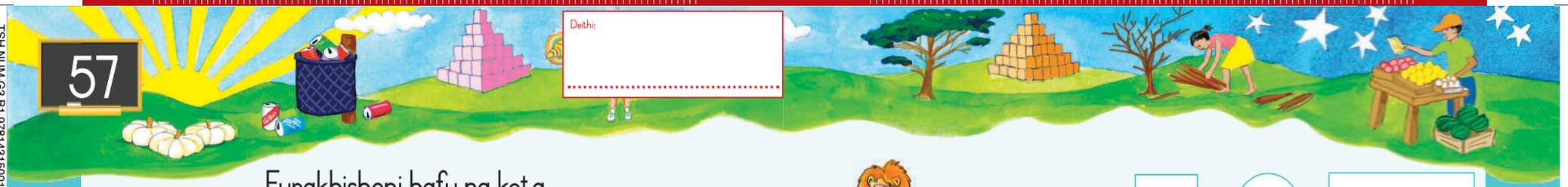
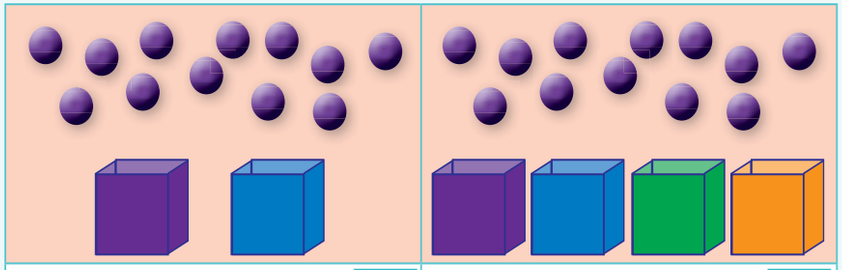


Furakhisheni hafu na kota



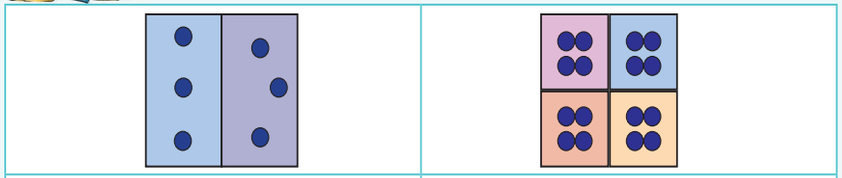
Kovhani bola dzi tshi lingana afho zwibogisini



• Hu na bola nngana bogisini ḽiṅwe na ḽiṅwe?	• Hu na bola nngana bogisini ḽiṅwe na ḽiṅwe?
• Ndi bola nngana dzi re bogisini ḽa phephuḽu?	• Ndi bola nngana dzi re bogisini ḽa phephuḽu?
• Ndi furakhisheni ifhio i re bogisini ḽa phephuḽu?	• Ndi furakhisheni ifhio i re bogisini ḽa phephuḽu?



Lavhelesani zwifanyiso ni fhindule mbudziso.



Ni kona u vhala zwitendeledzi zwingana?	Ni kona u vhala zwitendeledzi zwingana?
$\frac{1}{2}$ ya zwitendeledzi ndi ifhio?	$\frac{1}{4}$ ya zwitendeledzi ndi ifhio?
	$\frac{2}{4}$ ya zwitendeledzi ndi ifhio?
	$\frac{3}{4}$ ya zwitendeledzi ndi ifhio?
	$\frac{4}{4}$ ya zwitendeledzi ndi ifhio?



Khaḽarani $\frac{1}{2}$ ya zwivhumbeo.

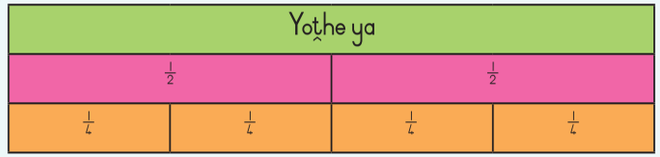
Khaḽarani $\frac{1}{4}$ ya zwivhumbeo.

Khaḽarani $\frac{1}{4}$ ya zwivhumbeo.

Khaḽarani $\frac{3}{4}$ ya zwivhumbeo.



Lavhelesani zwiṱirepe (vhubammbiri) zwa furakhisheni

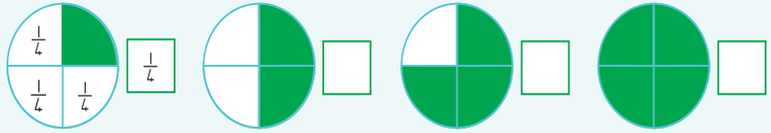


a. Ndi hafu $(\frac{1}{2})$ nngana dzi no ḓo ita yoṱhe nthihi?

Ndi kota $(\frac{1}{4})$ nngana dzi no ḓo ita yoṱhe nthihi?

Ndi kota $(\frac{1}{4})$ nngana dzi no ḓo ita yoṱhe nthihi?

b. Lavhelesani daigiramu (nyolo) ni ṅwale furakhisheni ya tshipiḓa tsho swifhadzwaho.



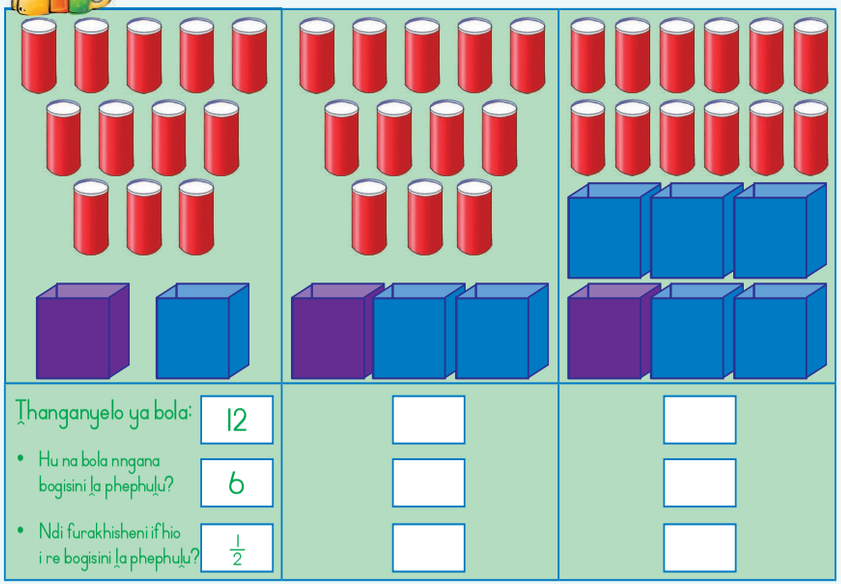
c. Ndi furakhisheni ifhio i re khulwane $\frac{1}{2}$ kana $\frac{1}{4}$



Deithi:

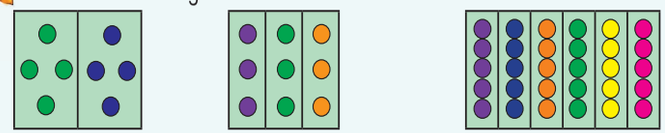
Furakhisheni: hafu; zwararu na zwarathi

Kovhani zwikoṱikoṱi (siḽinda) nga u lingana mabogisini.



Ṱhanganyelo ya bola:	12		
• Hu na bola nngana bogisini ḽa phephuḽu?	6		
• Ndi furakhisheni if hio i re bogisini ḽa phephuḽu?	$\frac{1}{2}$		

Lavhelesani zwifanyiso ni fhindule mbudziso.

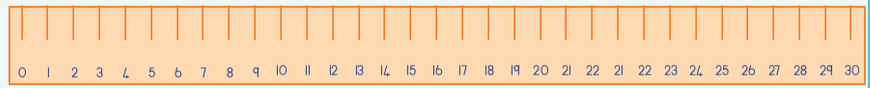


Ni kona u vhala zwitendeledzi zwingana? ☐

$\frac{1}{2}$ ya zwitendeledzi ndi if hio? ☐

ya zwitendeledzi ndi if hio? ☐	ya zwitendeledzi ndi if hio? ☐	ya zwitendeledzi ndi if hio? ☐
ya zwitendeledzi ndi if hio? ☐	ya zwitendeledzi ndi if hio? ☐	ya zwitendeledzi ndi if hio? ☐
ya zwitendeledzi ndi if hio? ☐	ya zwitendeledzi ndi if hio? ☐	ya zwitendeledzi ndi if hio? ☐
	ya zwitendeledzi ndi if hio? ☐	ya zwitendeledzi ndi if hio? ☐
		ya zwitendeledzi ndi if hio? ☐

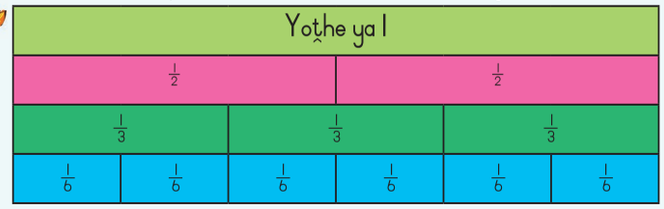




- Sumbedzani hafu kha ruḽa. Hetshi tshi lingana na ____ cm
- Sumbedzani tshararu kha ruḽa. Hetshi tshi lingana na ____ cm
- Sumbedzani tsharathi kha ruḽa. Hetshi tshi lingana na ____ cm



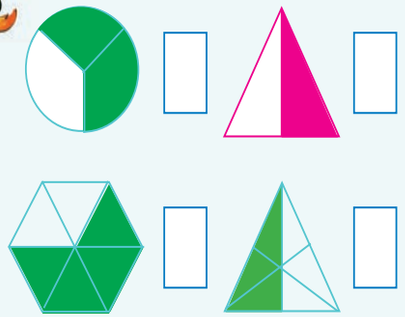
Lavhelesani zwiṱirepe zwa furakhishini. Fhedzisani maf hungo.



- Hu na hafu dza ___ kha yoṱhe.
- Hu na zwararu zwa ___ kha yoṱhe.
- Hu na zwarathi zwa ___ kha yoṱhe.
- Hu na zwarathi zwa ___ kha hafu.
- Hu na zwarathi zwa ___ kha tshararu.



Ṅwalani furakhisheni ya tshipiḓa tsho swifhadzwaho.



Tangedzelani furakhisheni khulwane.

a.	$\frac{1}{2}$	$\frac{1}{3}$
b.	$\frac{1}{2}$	$\frac{1}{6}$
c.	$\frac{1}{2}$	$\frac{2}{6}$

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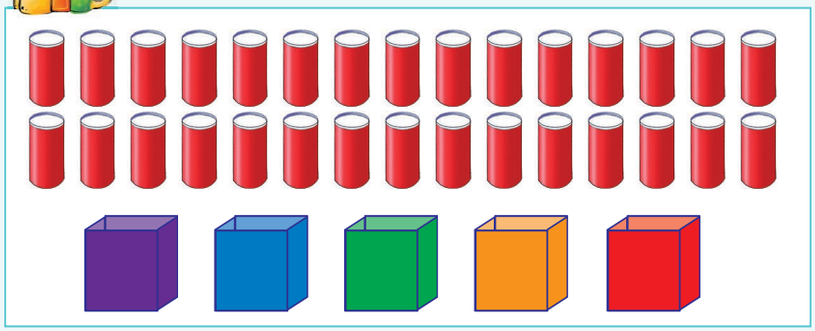
Deithi:

Furakhisheni: tshaṱhanu



Kovhani zwikoṱikoṱi mabogisini.



- Hu na zwikoṱikoṱi zwa 6 kha $\frac{1}{5}$ ya mabogisi.
- Hu na zwikoṱikoṱi zwa ____ kha $\frac{2}{5}$ ya mabogisi.
- Hu na zwikoṱikoṱi zwa ____ kha $\frac{3}{5}$ ya mabogisi.
- Hu na zwikoṱikoṱi zwa ____ kha $\frac{4}{5}$ ya mabogisi.
- Hu na zwikoṱikoṱi zwa ____ kha $\frac{5}{5}$ ya mabogisi.



Lavhelesani zwifanyiso ni fhindule mbudziso.

Hu na tshokoḽeithi nngana bogisini? ____

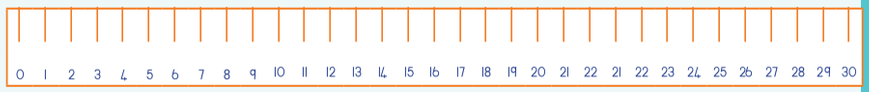


- $\frac{1}{5}$ ya tshokoḽeithi i lingana na ____
- $\frac{2}{5}$ ya tshokoḽeithi i lingana na ____
- $\frac{3}{5}$ ya tshokoḽeithi i lingana na ____
- $\frac{4}{5}$ ya tshokoḽeithi i lingana na ____
- $\frac{5}{5}$ ya tshokoḽeithi i lingana na ____
- Liṅwe ḓuvha ndo ḽa $\frac{1}{5}$ ya tshokoḽeithi. Ho sala tshokoḽeithi nngana? ____
- Liṅwe ḓuvha ndo dovha nda ḽa $\frac{1}{5}$ ya tshokoḽeithi. Ho sala tshokoḽeithi nngana? ____



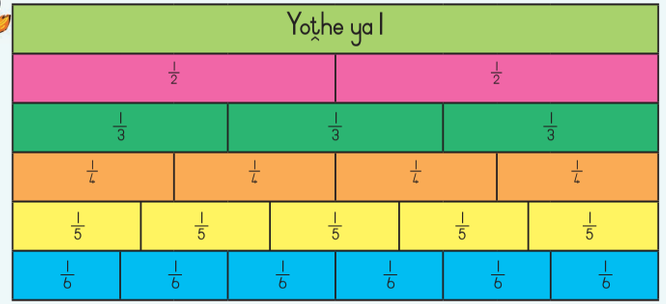
Mivhala ya zwishumiswa zwa u ela.

a.





Lavhelesani zwiṱirepe zwa furakhisheni. Fhedzisani maḓungo.



Tangedzelani zwihulwane kana zwiṱuku

a. $\frac{1}{2}$ ndi (khulwane) /ṱhukhu kha $\frac{1}{4}$.

b. $\frac{1}{3}$ ndi khulwane/ṱhukhu kha $\frac{1}{2}$.

c. $\frac{1}{5}$ ndi khulwane/ṱhukhu kha $\frac{1}{6}$

d. $\frac{1}{6}$ ndi khulwane/ṱhukhu kha $\frac{1}{3}$

e. $\frac{3}{6}$ ndi khulwane/ṱhukhu kha $\frac{2}{5}$

Teacher:
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Date:

Deithi:

Zwithu zwa 3D



Vhalani zwibogisi (phirizimu) ☐

Vhalani bola (zwipulumbu) ☐

Vhalani siḽinda ☐





Hezwi zwoṱhe ndi mabogisi.

Shumisani Zwigeriwa zwa mabammbiri a 3 na 4 kha kha u vhumba izwi zwithu.



Fhethu huṅwe na huṅwe ha baphathi hupfi ndi lurumbu (phanḓa ha). Nambatedzani tshifhaṱuwo tshiṅwe na tshiṅwe tshi no khou nwethuwa kha lurumbu lwa bogisi.

No nambatedza zwifhaṱuwo zwingana?



tshikwea ☐ phirizimu ☐ hekizagoni ☐

Vhurumbu ha phirizimu ndi ha baphathi kana ho kuta? ☐



Zwino itani siḽinda nga Tshigeriwa tsha 4.

Vhurumbu ha siḽinda ndi ha baphathi kana ho kuta? ☐



Ṱalutshedzani tshiimo tsha siḽinda ni tshi shumisa maipfi aya

Ṱalutshedzani tshiimo tsha siḽinda ni tshi shumisa maipfi aya

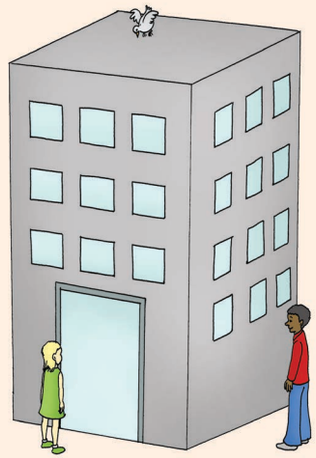
Nga lurumbu | Nga phanḓa | Nga nṱha



☐ ☐ ☐



Shumisani maipfi a re afho fhasi kha u fhedzisa mafhungo.



Musidzana o sedza _____ ha tshifhaṱo.

Munna o sedza _____ lwa tshifhaṱo.

Tshiṇoni tsho sedza _____ ha tshifhaṱo.

lurumbu | phanḓa | nṱha

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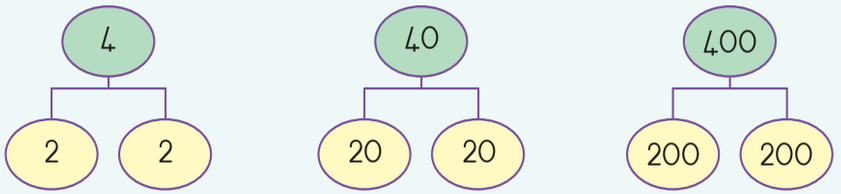
Dzithi:

U inga kavhili (davhulu) na hafu

Ni kha ḓi elelwa?	2 ndi hafu ya 4	4 ndi davhulu ya 2
	20 ndi hafu ya 40	40 ndi davhulu ya 20
	200 ndi hafu ya 400	400 ndi davhulu ya 200

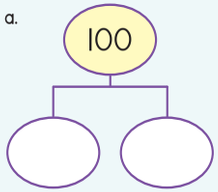
Elelwani! Ni nga sumbedza izwi zwithu kha nyolo (tshifanyiso) ...



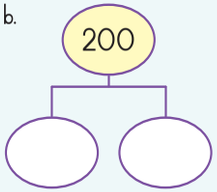


U wana hafu

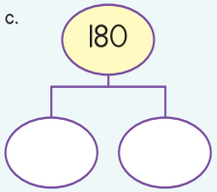
a.



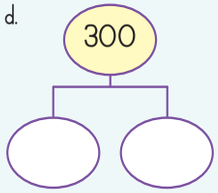
b.



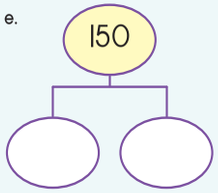
c.



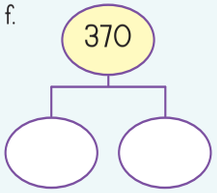
d.



e.



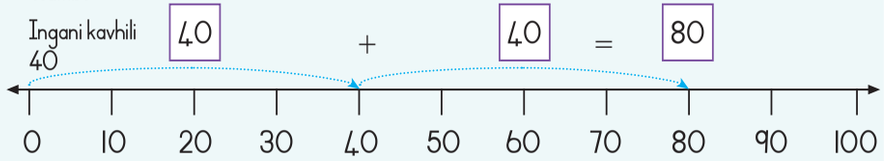
f.

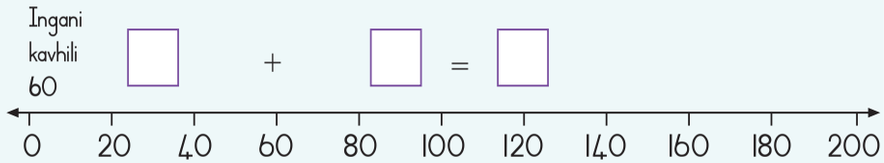


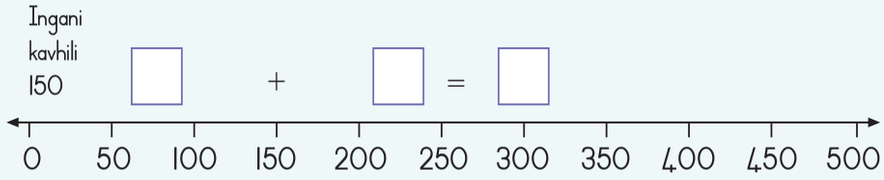


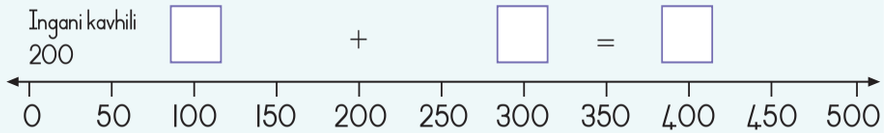
Ingani kavhili nomboro nga u shumisa mutalombalo. Ro ni ṋea tsumbo ya u thoma.

Tsumbo:











Fhedzisani zwi tevhelaho

a. Ingani kavhili 100	200
b. Ingani kavhili 150	
c. Ingani kavhili 120	
d. Ingani kavhili 200	
e. Ingani kavhili 170	



Fhedzisani zwi tevhelaho

a. Hafulani 220	110
b. Hafulani 180	
c. Hafulani 260	
d. Hafulani 60	
e. Hafulani 320	



Deithi: .....

Zwiṅwe hafhu zwa u davhula na u hafula

U wana nga zwivhili kana hafu

a. 73 | 73

b. 148

c. 96 | 96

d. 134

e. 166

f. 89 | 89

Vhulungelani baisigiri

Peter u vhulunga R25 nga vhege ya u renga baisigiri.
Ndi vhege nngana dzine a tea u vhulunga khadzo?

Phindulo: dzivhege dza _____



Mutengo wo tsa

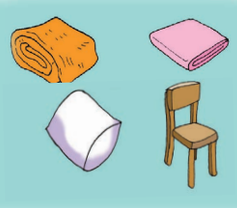
Aitheme dzoṭhe dzi kha mitengo ya fhasi nga hafu.
Ṅwalani mutengo wa fhasi tsini na aitheme iṅwe na iṅwe.

a. Mabai R190
Mutengo wa fhasi _____

b. Malagane R154
Mutengo wa fhasi _____

c. Khushini R54
Mutengo wa fhasi _____

d. Zwidulo R220
Mutengo wa fhasi _____



Ndi rannda nngana?

 R135	Musa u khou ṭoḍa hemmbe. U na hafu fhedzi ya mutengo wa hemmbe. Ndi vhugai ine ya kha ḍi ṭahela? R _____
 R78,50	Zwienda zwa Peter zwi ḍura kavhili u fhira izwi. Zwienda zwa Peter zwi ḍura vhugai? R _____
 R97	Mutengo wa rokho ya Phindi u inga kavhili wa iyi. Rokho ya Phindi i ḍura vhugai? R _____

Hu dzhena mini? Ha bva mini?

Tevhedzani tsumbo. Dzhenisani nomboro dzi no khou ṭahela.

a.

50	davhulu	+ 10	110
90			
75			
88			
			62

b.

124	hafu	– 9	53
110			
72			
98			90

Teacher:
Sign:
Date:

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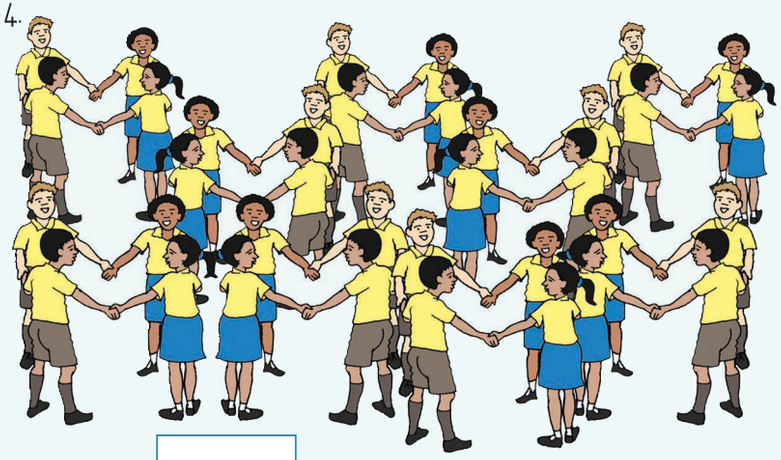
Dzithi:

U vhea nga zwigwada na u baḓekanya

Vheani vhana nga zwigwada

Mufumakadzi Vho Ndaba vha ṱoḓa u khethekanya kiḽasi ya bva zwigwada zwa saizi dzi linganaho u itela mitambo ya nnḓa ha kiḽasi. Vha thoma nga u vha vhekanya nga zwigwada zwa thimu dza vhana vha 4.



a. Vhalani vhana.

b. Vha kona u vhumba thimu nngana?

Ṱolani. Vhambedzani. Lulamisani.

c. Sumbedzani dziṅwe nḓila dzoṱhe dzine vhana vha nga khethekanywa ha bva zwigwada zwa saizi dzi no lingana.

_____

_____

_____

_____

Hu na zwiambaro zwingana?



Phindi u na hemmbe dza 5 dza mivhala na marukhu maṱuku a 5 a mivhala.

Ndi zwiambaro zwingana zwo fhambanaho zwine a nga zwi ita a tshi khou shumisa u ṱanganelana ha mivhala ho fhambanaho?

Sa tsumbo: Hemmbe ya lutombo/vhurukhu vhupfufhi ha lutombo. Hemmbe ya lutombo/vhurukhu vhupfufhi ha tshitopana.

Ṅwalani ḽeḓere ḽa u thoma ḽa muvhala muṅwe na muṅwe. Sumbedzani khonadzeo dziṅwe dzoṱhe dza zwiambaro.

_____

_____

_____

_____

_____

Humbulelani: Hu nga itea mini arali Phindi e na mivhala ya 6 yo fhambanaho ya hemmbe na marukhu mapfufhi?

Ndi zwiambaro zwingana zwine a nga ita?

Ṱolani. Vhambedzani. Lulamisani.

Teacher:
Sign:
Date:

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U ḓiphiṋa nga mbalo



Itani mulayo

Shumisani mulayo uyu kha u wana nomboro dzi no khou ṱahela

		14		
	8		6	
5		3		3

Zwino shumani hedzi

5		4
4		2 2

	17	
8		9

2	4	4 2

Fhaṱani u swika kha 20 nga ndla dza 3 dzo fhambananaho

	20	

	20	

	20	



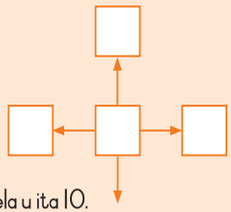
Khaedu



Shumisani nomboro 1, 2, 3, 4 na 5.

Nomboro dza 3 dzi re kha rou inwe na iṅwe dzi fanela u ita 10.

Mulayo: Shumisani nomboro inwe na iṅwe luthihi fhedzi



U wana nomboro

a. Mulayo 3: Nomboro dzi re kha rou iṅwe na iṅwe dzi tea u vhumba 16 dzo ṱangana.

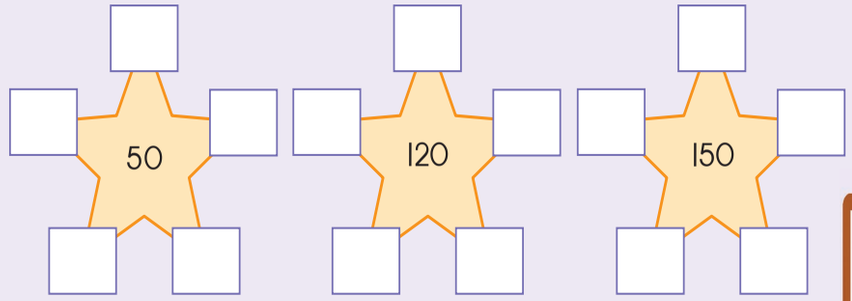
2	5	3	6
			2
		2	

b. Mulayo: Nomboro dza 3; u buḓa na rou na u tsa na khoḽomo; dzi ita ṱhanganyelo nthihi dzo ṱangana dzoṱhe.

2	7	6
9		1
	3	8

23	28	21
12		26
	10	

c. Mulayo: Dzhenisani nomboro dza 5 dziṅwe na dziṅwe dzine dzo ṱangana dzoṱhe dza ita nomboro i re ngomu ha ṋaledzi.





Abosika I

1	1	0	1	0	0
2	2	0	2	0	0
3	3	0	3	0	0
4	4	0	4	0	0
5	5	0	5	0	0
6	6	0	6	0	0
7	7	0	7	0	0
8	8	0	8	0	0
9	9	0	9	0	0

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1	0	0	1	0	1
2	0	0	2	0	2
3	0	0	3	0	3
4	0	0	4	0	4
5	0	0	5	0	5
6	0	0	6	0	6
7	0	0	7	0	7
8	0	0	8	0	8
9	0	0	9	0	9

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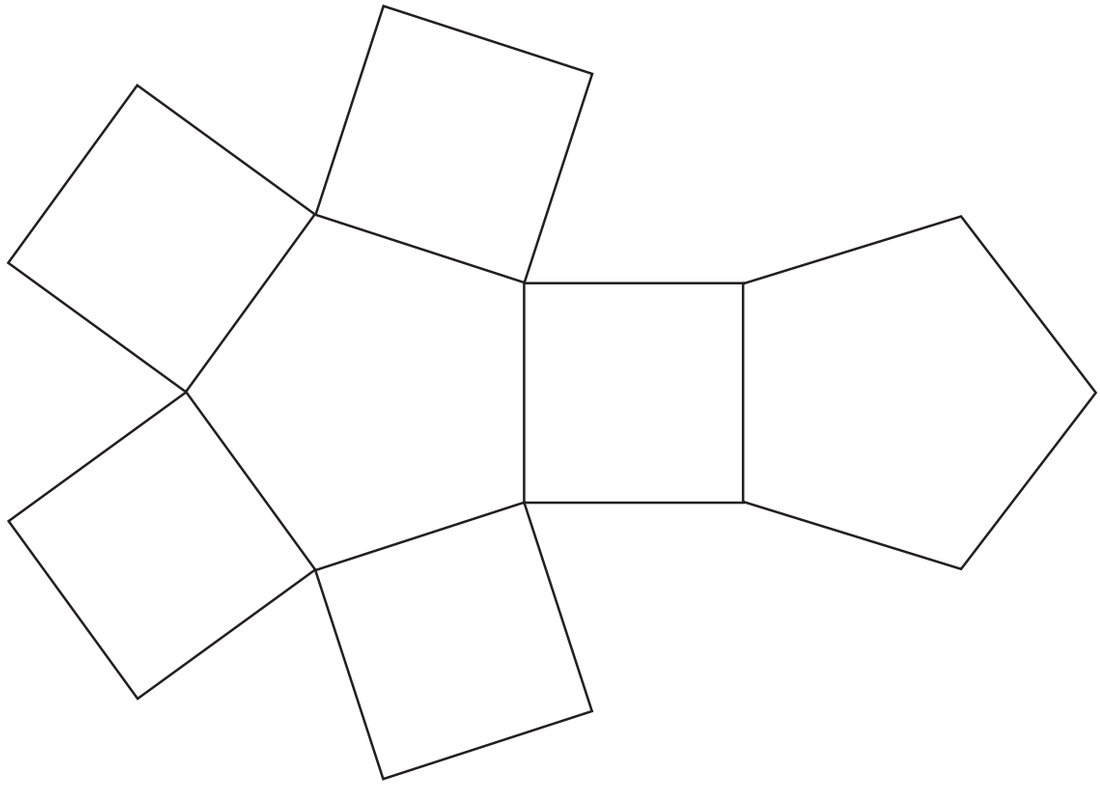

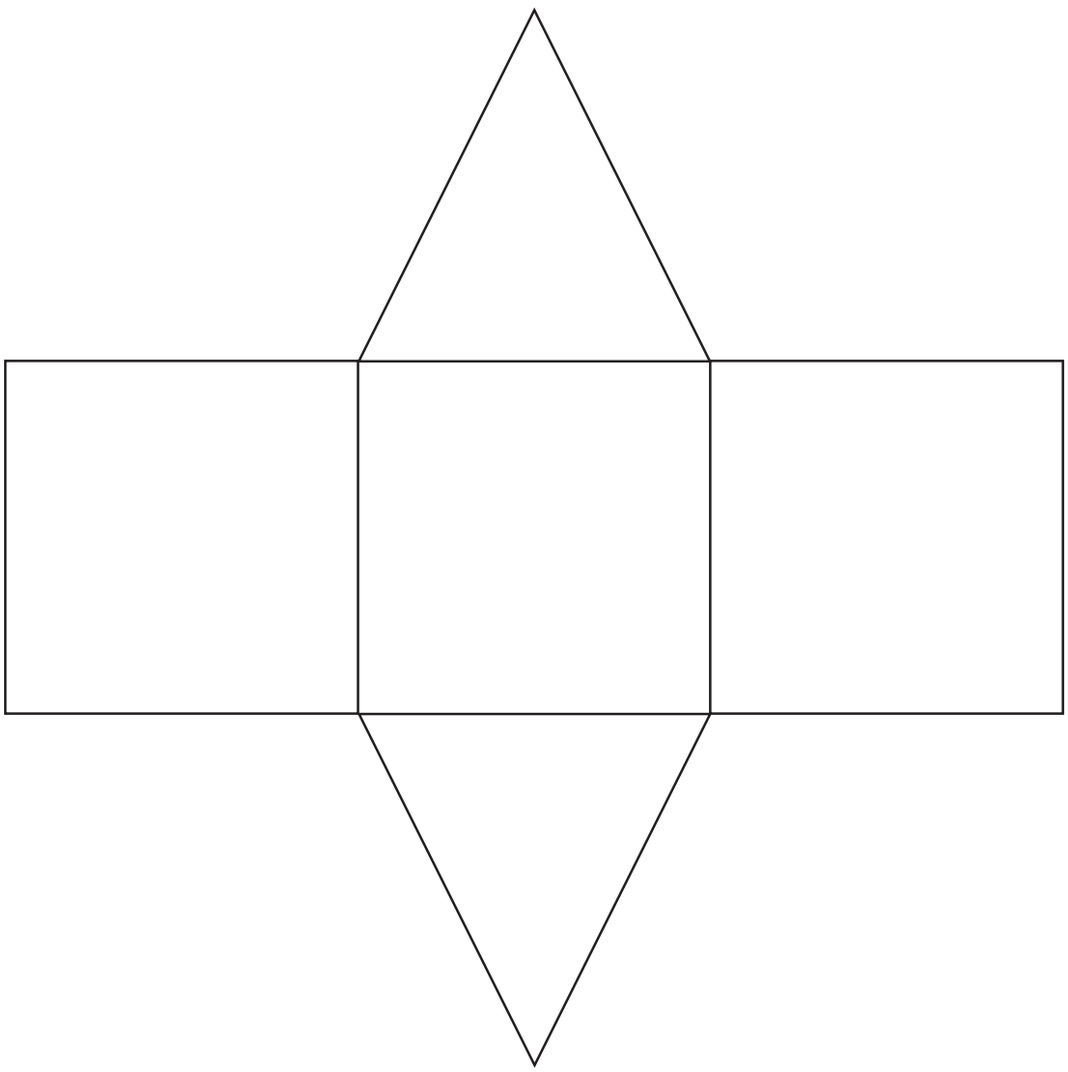

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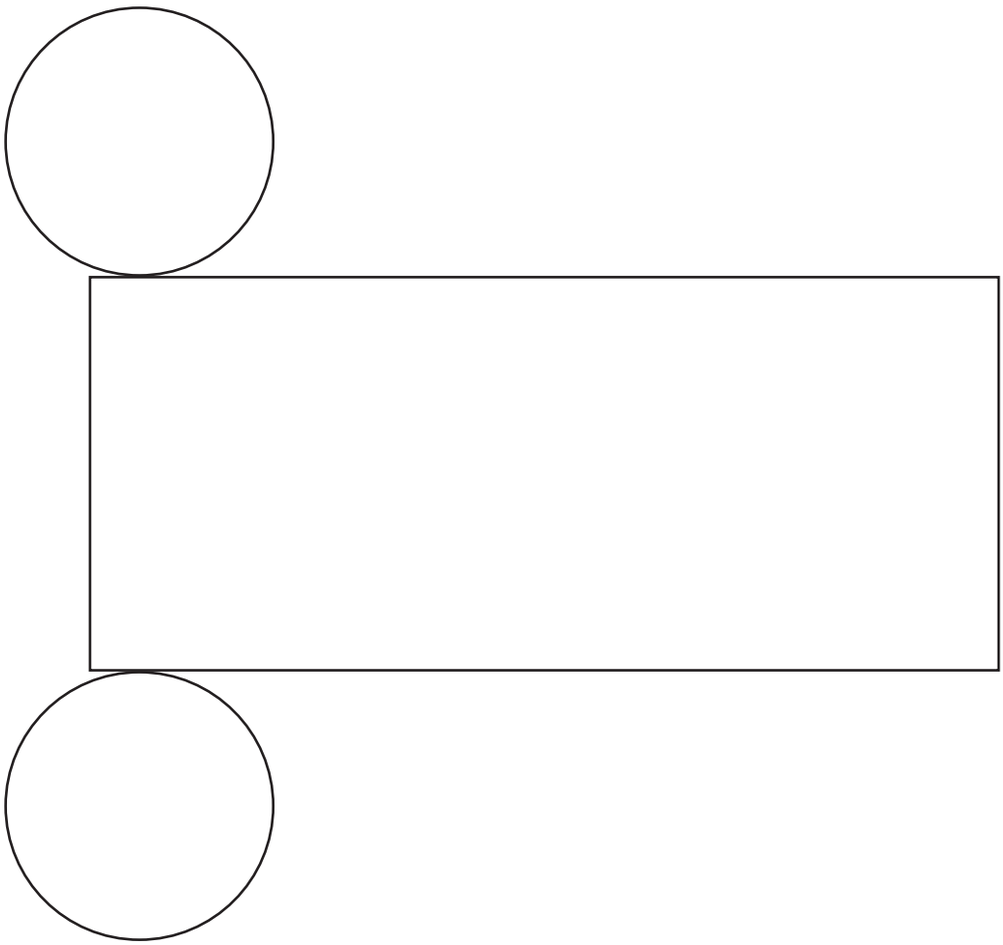

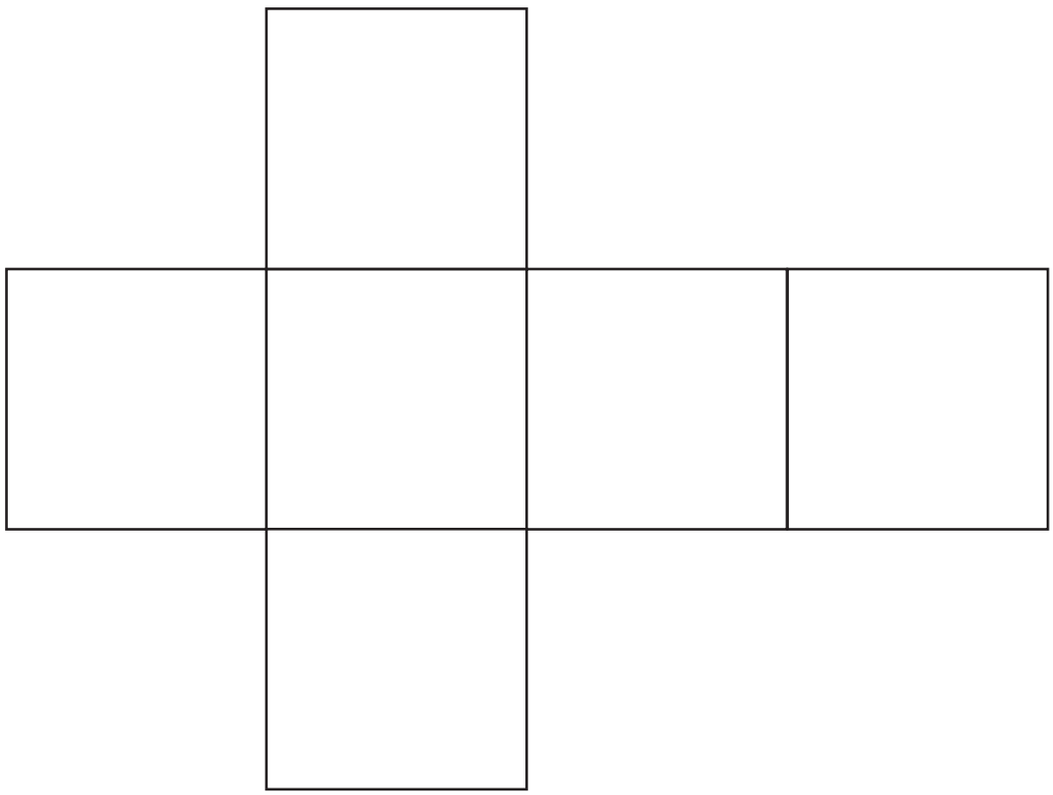

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