

Ku dyondza hi Vumbiwa ra Riphabliliki ra Afrika-Dzonga (1996)

Vumbiwa ra Afrika-Dzonga (1996) ri na milawu ya le henhla ya tiko. Milawu leyi yi le henhla ku tlula na puresidente, yi le henhla ku tlula tihuvo na ku tlula mfumo.

Yi hlamusela ndlela leyi vanhu va tiko va faneleke ku khomana hiyona, timfanelo na vutihlamuleri bya vona eka vanhu van'wana. Vumbiwa ra Tiko ri kona leswaku ri kota ku sirhelela hinkwerhu ka hina sweswi na vana va hina eka minkarhi leyi taka.

Lemuka matimu ya hina.	Hi nga vu yeleli swihoxo swa nkarhi lowu nga hundza.	Vumbiwa ra hina ri hi pfuna ku anaka nya no aka vumundzu ku byo antswa bya vanhu hinkwavo.

Hina, vanhu va Afrika-Dzonga,

Hi lemuka ku kala vululami ka nkarhi lowu hundzeke evuton'wini bya hina;

Hi xixima lava va xanisekeke hikwalaho ko hisekela vululami na ntshunxeko etikweni rerhu;

Hi hlonipha lava va tirheke ku aka no hluvukisa tiko ra hina; naswona

Hi tshemba leswaku Afrika-Dzonga i ra hinkwavo lava tshamaka eka rona, hi hlanganile hi ku hambana-hambana ka hina.

Kutani, hi ku tirhisa vayimeri va hina lava hi tihlawuleleke vona hi ntshunxekile, hi amukela Vumbiwa leri tanihi nawu lowu kulukumba wa Riphabliki ku endlela—

- Ku lulamisa ku hambanisiwa ka nkarhi lowu hundzeke no vumba rixaka leri simekiweke ehenhla ka masungulo ya swipimelo swa xidemokhirasi, vululami exikarhi ka vanhu na timfanelo ta ximunhu ta masungulo;
- Ku simeka masungulo ya rixaka ra xidemokhirasi leri vekaka swilo erivaleni laha eka rona mfumo wu simekiweke ehenhla ka ku navela ka vanhu naswona vaaka-tiko hinkwavo va sirheleriwile hi ku ringana hi nawu;
- Ku antswisa xiyimo xa vutomi bya vaaka-tiko hinkwavo no humesela erivaleni vuswikoti bya munhu un'wana na un'wana na;
- Ku aka Afrika-Dzonga leri vumbaneke ra xidemokhirasi leri ri kotaka ku teka vutshamo bya rona lebyi faneleke tanihi tiko leri tiyimeleke endyangwini wa tinxaka.

Lava timfanelo ta wena tanihi Muafrika-Dzonga u tlhela u va na vutihlamule ri byo sirhelela timfanelo ta vanhu van'wana.	Tiva Nawumbisi wa timfanelo ta wena & Nawumbisi wa Vutihlamule ri.

Xikwembu a xi sirhelele vanhu va hina.
Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.
God seën Suid-Afrika. God bless South Africa.
Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.

ISBN 978-1-4315-0014-7

Rainbow WORKBOOKS

MATHEMATICS IN XITSONGA
GRADE 3 – BOOK 1
TERMS 1 & 2
ISBN 978-1-4315-0014-7

THIS BOOK MAY NOT BE SOLD.

11th Edition

1 2 3 4

MATEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 1

ISBN 978-1-4315-0014-7

Leyi pfuxetiweke hi xiCAPS



MATEMATIKI HI XITSONGA

Giredi ya 3

Vito:

Tlilasi:

basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Buku ya 1
Tikotara ta 1 na 2

Leswi nga endzeni

Nomboro	Nhlokomhaka	Pheji
1	Hlayela, hlawula no kombisa!	2
2	Ku hlayela hi vutlhari	4
3a	Tinomboro eka giridi	6
3b	Tinomboro eka giridi (ku yisa emahlweni)	8
4	Nkoka wa ndhawu	10
5	Ku hlanganisa noku ku susa	12
6	Ku andzisa kambirhi na tihafu	14
7	Swiphemu	16
8	Ku hlawula mali	18
9	Tipatironi	20
10	Tibolo, mabokisi na tisilindara	22
11	Dirowa, nyika vito u tlhela u ringanisa swivumbeko swa 2-D	24
12	Nkarhi wa famba	26
13	Ku pima ku leha	28
14	Vundzeni	30
15	Ku tirha hi ntiko	32
16	Ku lawula switiviwa	34
17	Ringanisa no longoloxa tinomboro	36
18	Nkoka wa ndhawu ku fika eka 99	38
19	Ku veka vukhume kun'we loko hi hlanganisa eka 99	40
20a	Hlanganisa eka ndzhati wa mitsengo	42
20b	Hlanganisa eka ndzhati wa mitsengo (ku yisa emahlweni)	44
21a	Susa eka ndzhati wa mitsengo	46
21b	Susa eka ndzhati wa mitsengo (ku yisa emahlweni)	48
22	I nkarhi wa xinkhubyana	50
23	Ku hlayela ku fika eka 200	52
24	Titolovete hi vu-5	54
25a	Hlayela hi vu-2	56
25b	Hlayela hi vu-2 (ku yisa emahlweni)	58
26	Mali ya khale na ya sweswi	60
27	Hlayela hi vu-3	62
28	Xana i yini xi taka hi vu-4?	64
29	Tipatironi eka tinomboro	66
30a	Ku avanyisa	68
30b	Ku avanyisa (ku yisa emahlweni)	70
31	Swiphemu	72
32	Sweswi i nkarhi	74
33	Thagete ya 200	76
34	Ku tirha hi mitlawa ya tinomboro	78
35a	Ku veka vukhume kun'we na ku byi hambanisa	80
35b	Ku veka vukhume kun'we na ku byi hambanisa (ku yisa emahlweni)	82
36	Rendzo ro ya eka n'anga ya meno	84
37a	Hlanganisa u tlhela u katsa	86
37b	Hlanganisa u tlhela u katsa (ku yisa emahlweni)	88
38	Xi lulamise!	90
39	Hlayela no khakhuleta	92
40	Ku pima hi tisentimitara	94
41	Thagete ya 300	96
42	Ku hlanganisa no susa hi vu-100	98
43	Thagete ya 400	100
44	Ku pima	102
45	Thagete ya 500	104
46	Ku hlanganisa na ku susa kun'wana	106
47	Lota vutshila bya wena	108
48	Ndzingano	110
49	Ku aka ku fika eka 500	112
50	Ku andzisa no avanyisa (10)	114
51	Hlayela hi vu-2	116
52	Pheyivha hi tithayele	118
53	Hi vu-5 ku fika eka 500	120
54	Ku tirha hi nkarhi	122
55	Hlayela hi vu-3 na vu-4	124
56	Hlayela hi vu-50	126
57	Swiphemu: Tihafu na tikotara	128
58	Swiphemu: Tihafu, xa-nharhu na xa-ntsevu	130
59	Swiphemu: xa-ntlhanu	132
60	Swilo swa 3-D	134
61	Ku andzisa kambirhi na hafu	136
62	Ku andzisa kambirhi na ku hafula kun'wana	138
63	Endla mitlawa u tlhela u katsa	140
64	Ku tiphina hi metse	142
	Xitsemiwa I	
	Xitsemiwa 2	



Manana Angie Motshekga,
Holobye wa Dyondzo ya
Masungulo



Dkd. Reginah Mhaule,
Xandla xa Holobye wa
Dyondzo ya Masungulo

Tibuku leti to tirhela ti endleriwe vana va Afrika-Dzonga ehansi ka vurhangeri bya Holobye wa Dyondzo ya Masungulo, Manana Angie Motshekga, na Xandla xa Holobye wa Dyondzo ya Masungulo, Dkd. Reginah Mhaule.

Tibuku to tirhela ta Rainbow ti vumba xiyenge xin'wana xa ntlawa wa migingiriko ya Ndzawulo ya Dyondzo ya Masungulo leyi kongomisiweke eka ku antswisa matirhelo ya vadyondzi va Afrika-Dzonga eka tigiredi ta ntsevu to sungula. Tanihi xin'wana xa swilo leswi nga swirhangana eka nkunguhato wa matirhelo ya mfumo, phurojeke leyi yi humelerile hi ku seketeriwa hi timali hi Nkwama wa Timali ta Tiko. Leswi swi endlile leswaku Ndzawulo yi swi kota ku endla leswaku tibuku leti to tirhela, ti kumeka hi tindzimi hinkwato ta ximfumo handle ko hakeleriwa.

Hi tshemba leswaku tibuku leti ti ta pfuna vadyondzisi eka migingiriko ya vona yo dyondzisa ya masiku hinkwawo no tiyisisa leswaku vadyondzi va vona va kota ku heta kharikhulamu. Hi tiyisise leswaku hi letela mudyondzisi eka nghingiriko wun'wana na wun'wana hi ku katsa mifungho leyi kombisaka leswi mudyondzi a faneleke ku endla swona.

Hi ni ntshembo wa leswaku vana va ta tiphina no tsakela ku tirha migingiriko leyi nga ebukwini loko va ri karhi va ya emahlweni no dyondza, na leswaku wena, mudyondzisi, u ta tsaka swin'we na vona.

Hi mi navelela ku humelela, wena na vadyondzi va wena eku tirhiseni tibuku leti to tirhela.



Published by the Department of Basic Education
222 Struben Street
Pretoria
South Africa

© Department of Basic Education

Eleventh edition 2021

ISBN 978-1-4315-0014-7

This book may not be sold.

The Department of Basic Education has made every effort to trace copyright holders but if any have been inadvertently overlooked the Department will be pleased to make the necessary arrangements at the first opportunity.

Giredi ya 3

Rainbow WORKBOOKS

Matematiki

HI XITSONGA

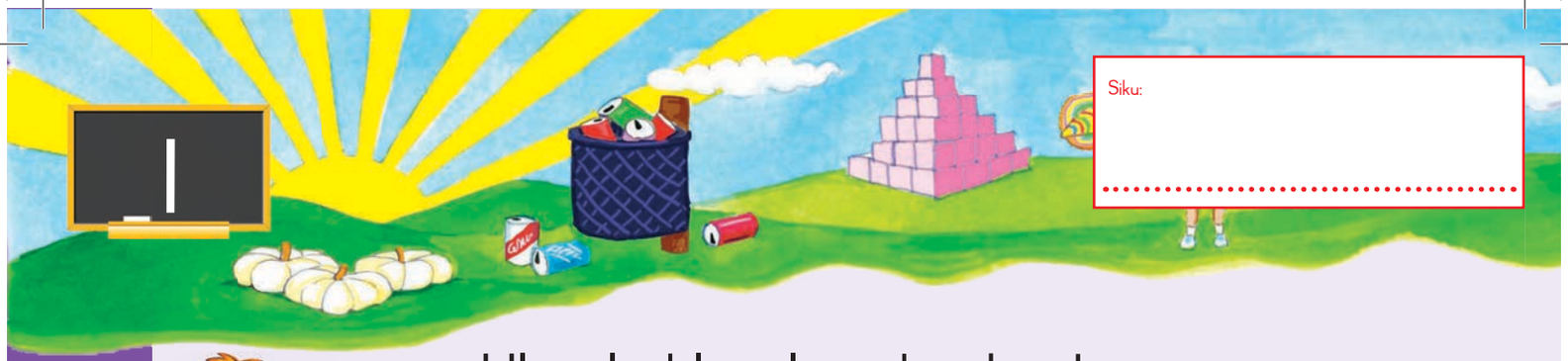
Buku leyi i ya: _____



XITSONGA

Buku ya 1

XIT NUM G3 B1 9781431500147.indb 1 2014/05/05 5:01 PM



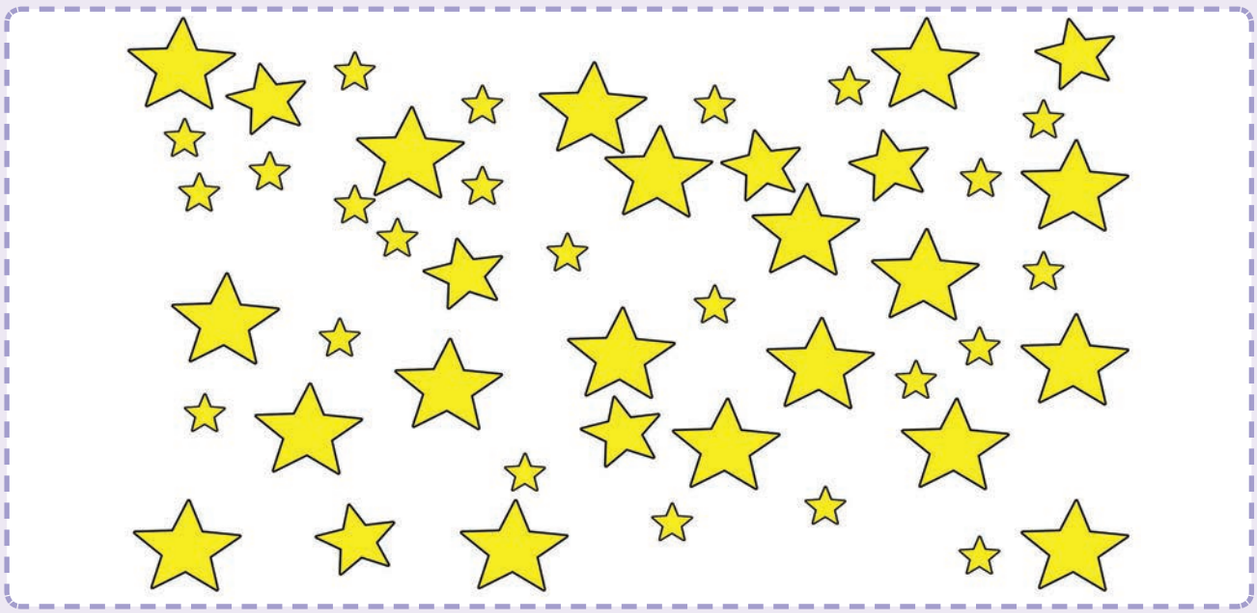
Siku:



Hlayela, hlawula no kombisa!

I tinyeleti tingani?

Ringanisani tinhlamulo.



Pimanyisani leswaku ku na tinyeleti tingani. _____

Sweswi ti hlayeleni. _____



Kumani muhluri!

Xana i mani a nga endla mpimanyiso wa kahle?

Tatani mavito ya n'wina na tinhlamulo ta n'wina eka tafula leri.

Vito				
Mpimanyiso				
Nhlayo leyi hlayeriweke				
Ku hambana exikarhi ka mpimanyiso na ku hlayela ka n'wina				

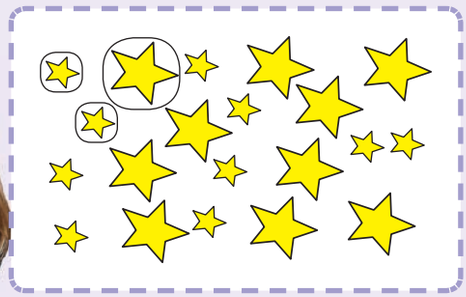
XIT NUM G3 B1 9781431500147.indb 2 2014/05/05 5:01 PM



Tindlela to hlayela. Hi pfuneni ku ti tsala ehansi.



Ndzi hlayele hi vun'we.



1, 2, 3, _____

_____



2, _____

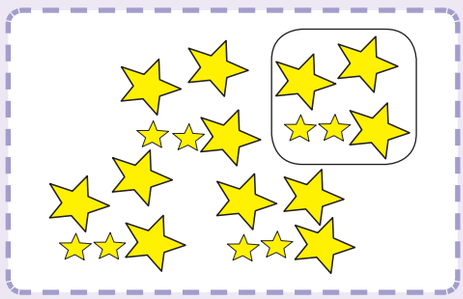
_____



Ndzi hlayele hi vu-2.

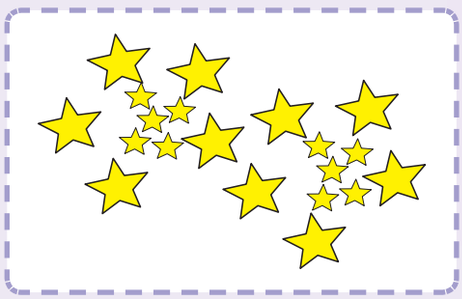
Ndzi hlayele hi vuntlhanu.





5, _____

_____



_____

_____



Ndzi hlayele hi vukhume.



Tsalani swivulwa swa tinomboro

Loko u hlanganisa tinomboro tihi kumbe tihi timbirhi malongolokelo ya tona a ya vuli nchumu.

Tsala swivulwa swimbirhi ku nyika ntsengo wa tinyeleti letikulu na letitsongo exifanisweni lexi nga eka pheji ra 2. Swi tsale hi tindlela timbirhi.

Kulu Tsongo Ku fana na leswi kumbe ku fana na leswi

 +  = ____

 +  = ____

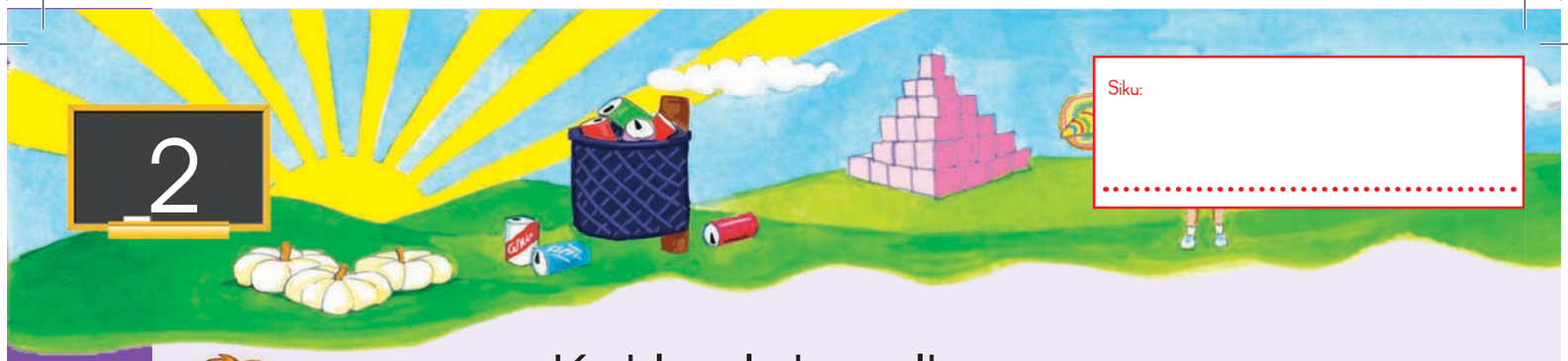
naswona tanihi swivulwa swa tinomboro.

_____ + _____ = _____ *kumbe* _____ + _____ = _____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 3 2014/05/05 5:01 PM



2

Siku:

.....

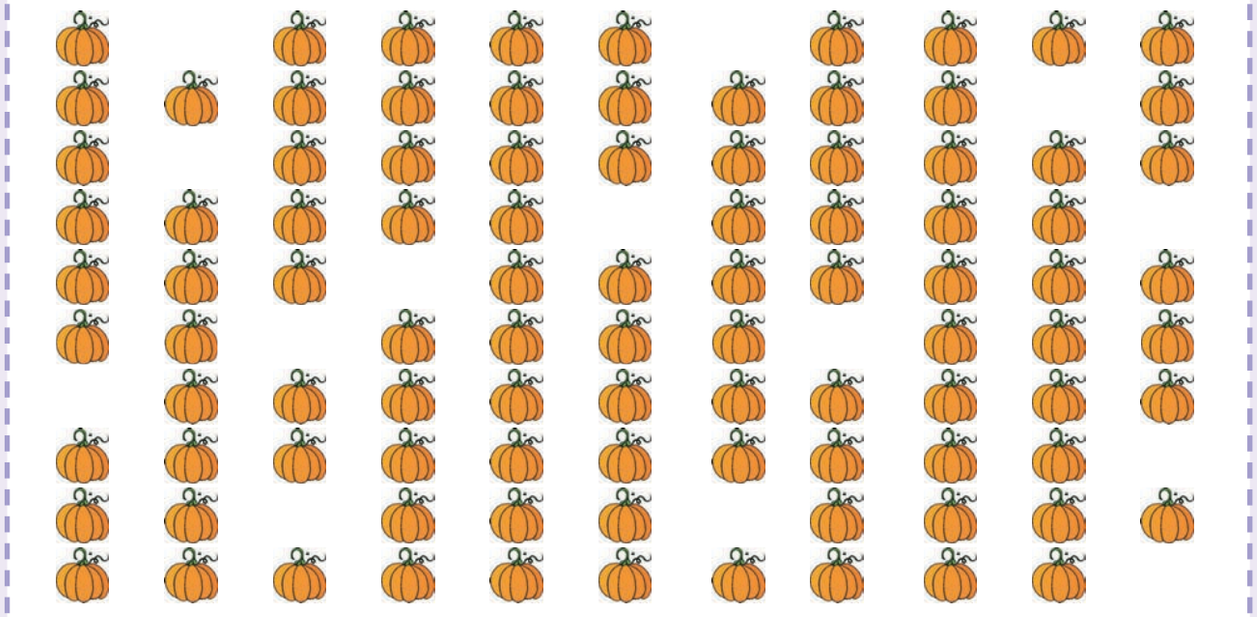
Kotara ya 1

Ku hlayela hi vutlhari



Ku hlayela makwembe

Kuma ndlela yo olova yo ma hlayela!



Nhlamulo: _____



Ku paka makwembe

Makwembe ya khume ya nghena esakeni rin'we.



Xana ku na masaka mangani? _____

Xana ya hundze hi makwembe mangani? _____

Xana i makwembe mangani man'wana ma lavekaka ku tatisa saka rin'wana rin'we? _____

XIT NUM G3 B1 9781431500147.indb 4 2014/05/05 5:01 PM



Ku suka eka + ku ya eka × (ku hlanganisa ku ya eka ku andzisa)

Hetisa swivulwa swa tinomboro.

Xikombiso:
10 + 10 + 10 + 10 = 40 ⟹ ntsengo wa 4 wa mintlawa ya 10 = 40 ⟹ 4 × 10 = 40



a. 10 + 10 + 10 = _____

_____ wa mintlawa ya 10 = _____ ⟹ _____ × _____ = _____



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

_____ wa mintlawa ya 10 = _____ ⟹ _____ × _____ = _____

Swandla na tintiho



Xana i swandla swingani? _____ Xana i tintiho tingani? _____

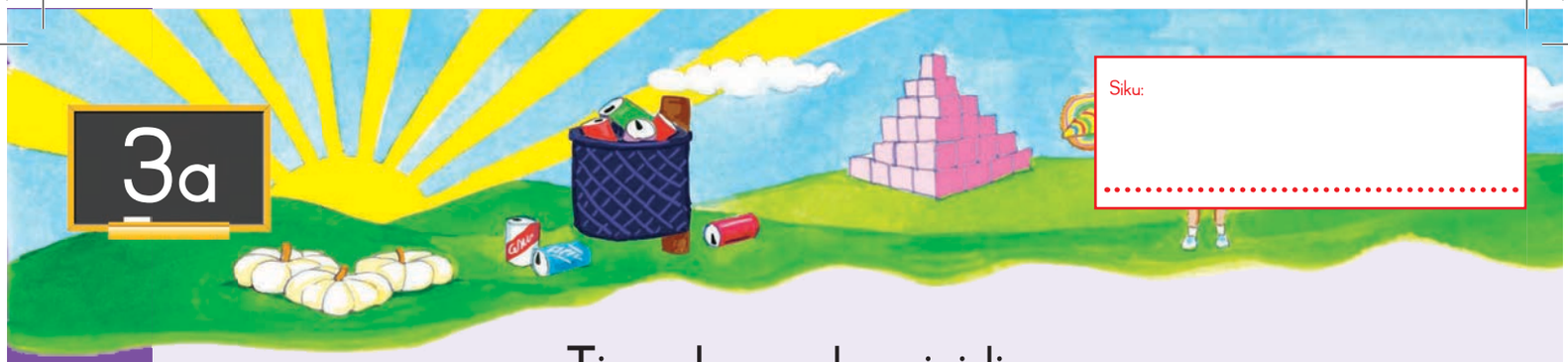
Tsala nhlamulo ya wena hi 2 wa tindlela.

_____ wa mintlawa ya 10 = _____ na _____ × 10 = _____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 5 2014/05/05 5:01 PM



3a

Siku:

Kotara ya 1

Tinomboro eka giridi



Ku vulavula hi tinomboro

Hlayela no vula tinomboro hinkwato ku suka eka 1 – 100. Kombetela loko u ri karhi u hlayela u ya emahlweni.

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



a. Tsala nomboro leyi siyiweke eka buloko yin'wana na yin'wana ya wasi.

b. Tsala tinomboro letin'wana.

c. Xana tinomboro ta xitshopana i ta njhani?



Tsala tinomboro hi marito.

90	makumekaye	41	
77		56	
14		65	

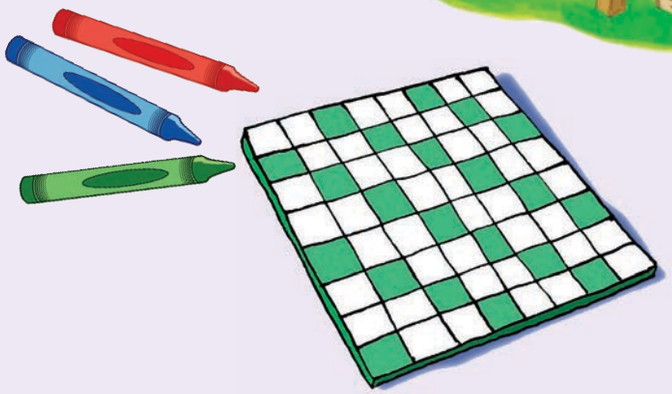
XIT NUM G3 B1 9781431500147.indb 6 2014/05/05 5:01 PM





Ku hlayela no khalara

Tilulamisele ku hlayela muhlovo!



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

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

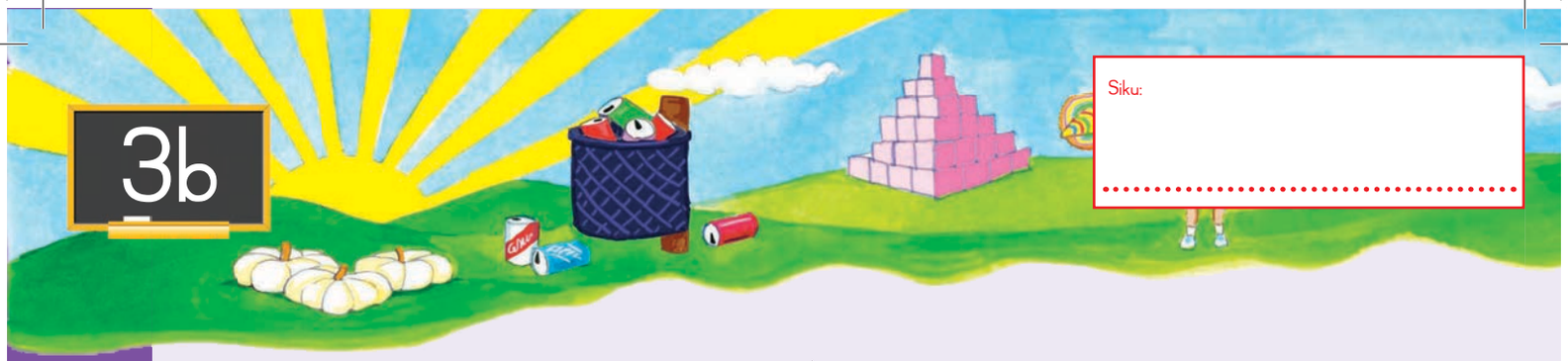
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Hlayela no khalara vu-10.	Hlayela no khalara vu-5 ku suka eka 0 ku fika eka 100.	Hlayela no khalara vu-2.
Hlayela hi vu-10 ku suka eka 10 ku fika eka 100.	Hlayela hi vu-5 ku suka eka 5 ku fika eka 100.	Hlayela hi vu-2 ku suka eka 2 ku fika eka 100.
Tsala vu-10 ku suka eka 10 ku fika eka 100.	Tsala vu-5 ku suka eka 5 ku fika eka 80.	Tsala vu-2 ku suka eka 2 ku fika eka 100.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 7 2014/05/05 5:01 PM



3b

Siku:

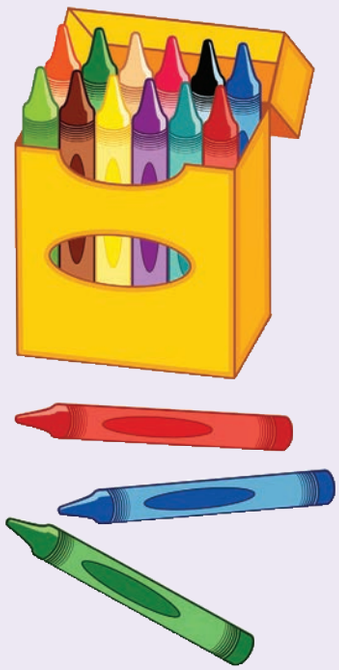
Kotara ya I

Tinomboro eka giridi (ku yisa emahlweni)



Ku lava tipatironi

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



Gwajula vu-10 hinkwabyo.	Gwajula vu-5 hinkwabyo.	Gwajula vu-2 hinkwabyo.

Tsala 20 wa tinomboro leti nga eka tipatironi ta vu-2 na vu-5.

_____

_____

_____

_____

XIT NUM G3 B1 9781431500147.indb 8 2014/05/05 5:01 PM



Ku hlayela tipatironi

Tata tinomboro leti siyiweke.

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; _____; _____;

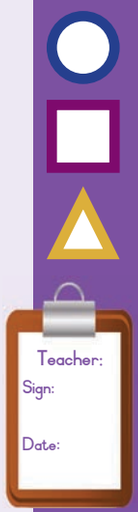
_____; 52; _____; _____; 64; _____; 72; _____; 80

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

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

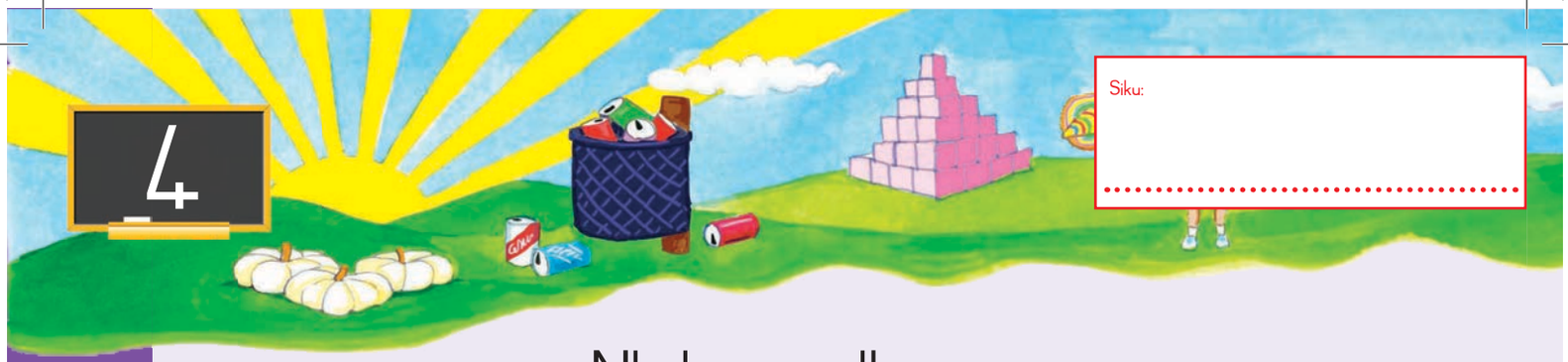
0; 3; _____; 9; _____; 15; 18; _____; 24; _____; _____; 33; _____; 39;

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



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 9 2014/05/05 5:01 PM



Siku:

Nkoka wa ndhawu

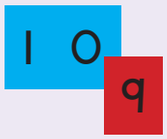


Ku kombisa tinomboro ta wena

Tsema makhadi ya tinomboro ku suka eka phepha ra Xitsemiwa xa 1.
Tirhisa makhadi ku aka tinomboro leti.

19 43 69 54 35





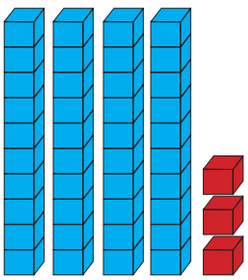
19

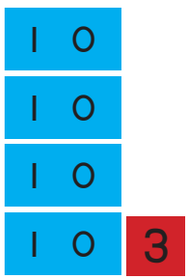




10 + 9 = 19

43





40 + 3 = 43

Sweswi endla hi wexe eka tinomboro leti u tirhisa Switsemiwa swa 1.

54

35

69

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 10 2014/05/05 5:01 PM



Tsala tinomboro leti

Hi ku endlele yo sungula.

Hi nga tlhela hi vula leswaku 9 ya vun'we.

19	10 + 9	1 khume 9 ya vun'we	khumekaye
43			
69			
54			
35			
21			
73			
44			
32			
89			
17			
95			
56			
68			
67			



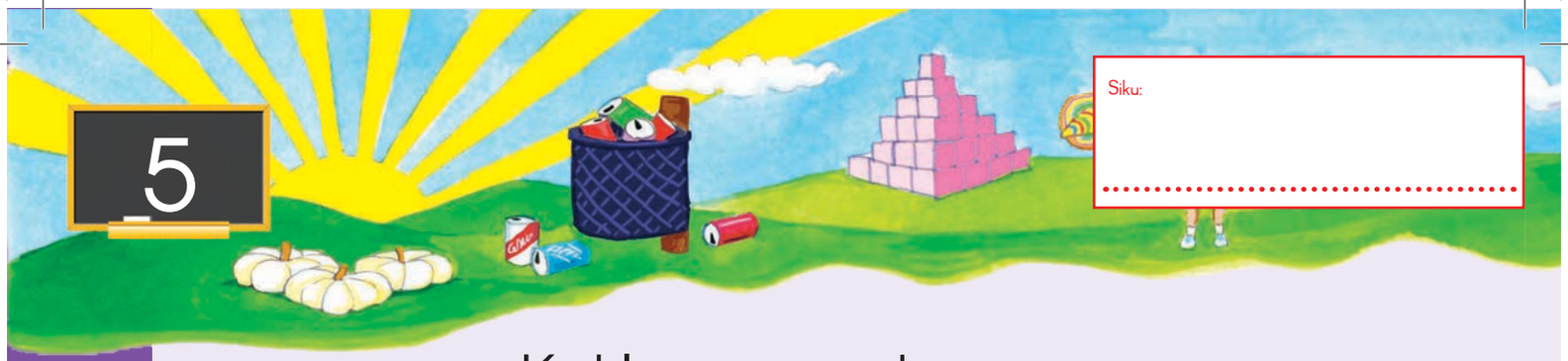
Tsala tinomboro ta ntlhanu to sungula etafuleni laha henhla, hi nongonoko wo suka eka leyitsongo swinene ku ya eka leyikulu swinene.

_____; _____; _____; _____; _____



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 11 2014/05/05 5:01 PM



5

Siku:

Kotara ya 1

Ku hlanganisa na ku susa



Xitolo xa Lebo

Nimixo Lebo u na 19 wa maphakiti ya maapula.
Hi nkarhi wa lanci u na 13 wa maphakiti lama saleke.



a. Xana Lebo u xavisile maphakiti mangani? _____

b. Tsala nhlamulo ya wena tanihi xivulwa xa tinomboro.

_____ – _____ = _____

Tsala xivulwa xin'wana xa tinomboro ku kombisa nhlamulo leyi fanaka.
15 – 9 = 6 _____ _____ _____ _____ _____



Ntoloveto wo vuyelela tinomboro

1+2=3

Tsala tinhlamulo.

Tirhisa ...
+ – =

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 =



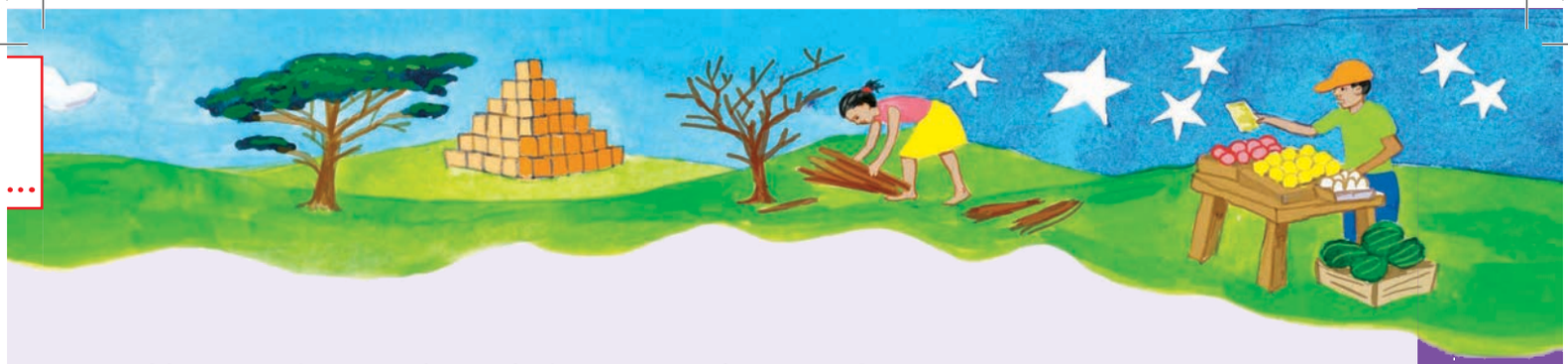
Mindyangu ya tinomboro

5 9 14

Hi leswi swikombiso swa ndyangu wa nomboro leyi.

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

XIT NUM G3 B1 9781431500147.indb 12 2014/05/05 5:01 PM



Xana u nga kuma mindyangu hinkwayo ya nomboro ya 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 =			



Ndzi ta endla leswi fanaka hi 12.

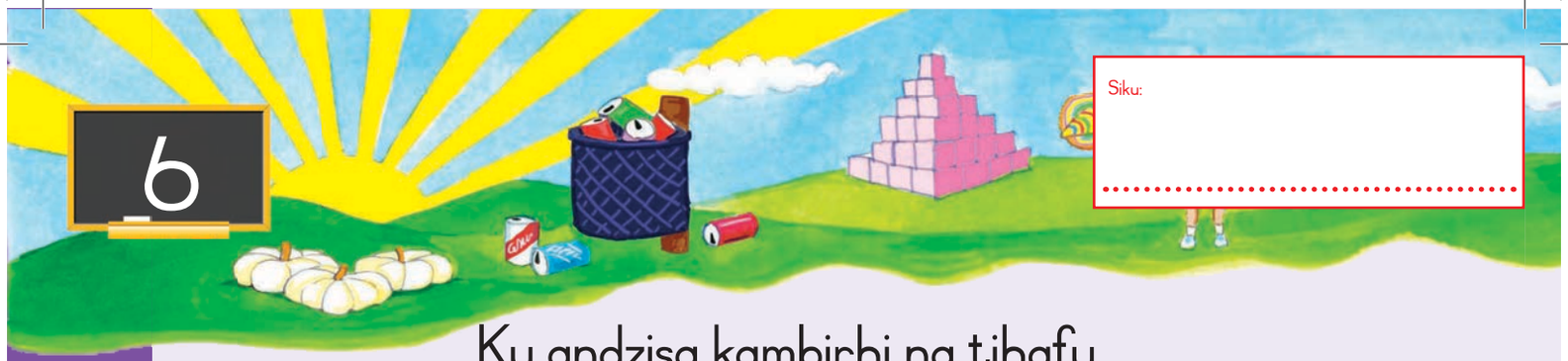
12

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 13 2014/05/05 5:01 PM



Siku:

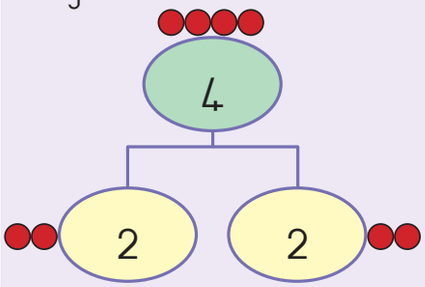
Kotara ya 1

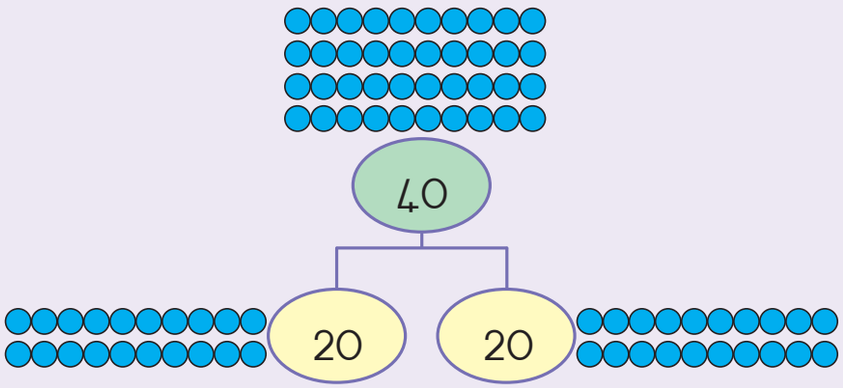
Ku andzisa kambirhi na tihafu

Xana wa tsundzuka?

2 i hafu ya 4 | 20 i hafu ya 40 | 4 i 2 yi andzisiwe kambirhi | 40 i 20 yi andzisiwe kambirhi

Hi nga kombisa leswi eka xifaniso...

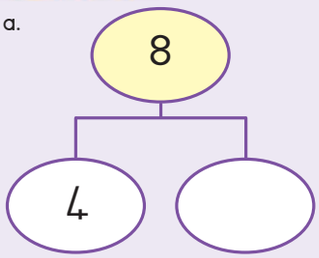




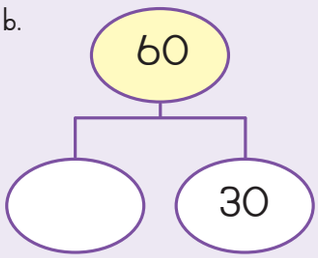


Kuma mitsengo ya ku andzisa kambirhi kumbe tihafu

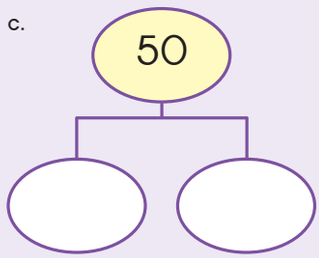
a.



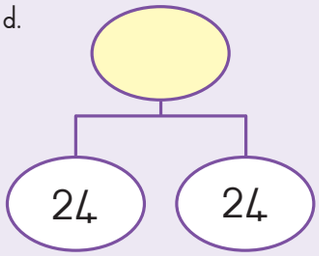
b.



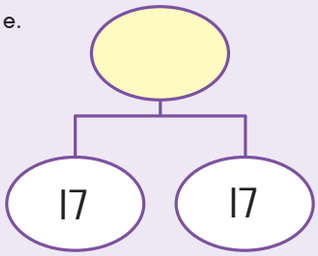
c.



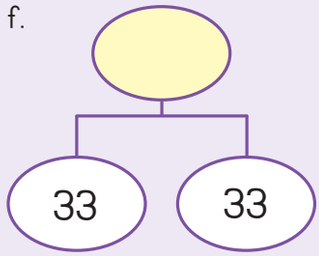
d.



e.



f.





Ntlhontlho

Kuma hafu yin'we ya 3.

Kombisa tanihi nomboro kumbe vito ra nomboro. Xifaniso xi nga ku pfuna.

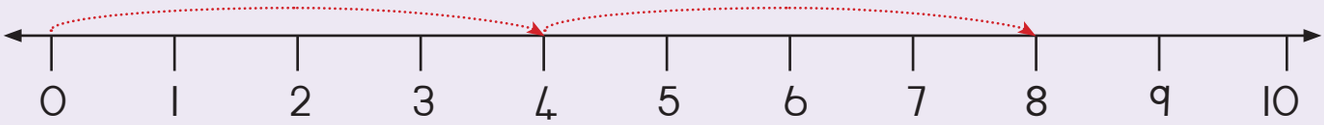
XIT NUM G3 B1 9781431500147.indb 14 2014/05/05 5:01 PM



Andzisa nomboro kambirhi u tirhisa ndzhati wa mitsengo. U nyikiwe xikombiso xo sungula.

a. Andzisa 4 kambirhi

4 + 4 = 8



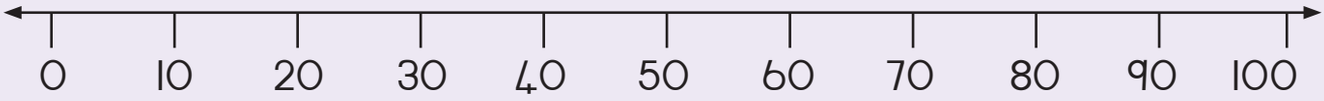
b. Andzisa 5 kambirhi

___ + ___ = ___



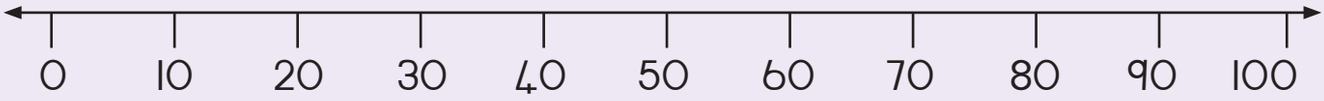
c. Andzisa 20 kambirhi

___ + ___ = ___



d. Andzisa 40 kambirhi

___ + ___ = ___





Hetisa leswi landzelaka

a. Andzisa 1 kambirhi	2
b. Andzisa 6 kambirhi	
c. Andzisa 10 kambirhi	
d. Andzisa 30 kambirhi	
e. Andzisa 50 kambirhi	



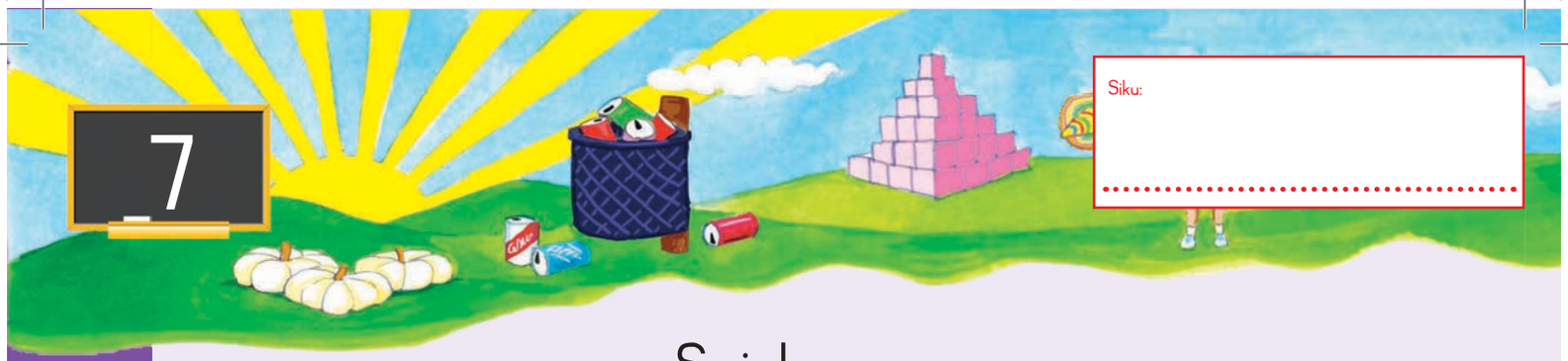
Hetisa leswi landzelaka

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 15 2014/05/05 5:01 PM



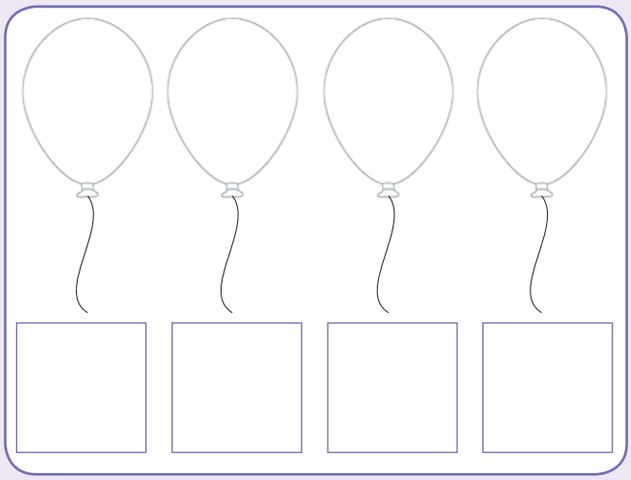
Siku:

.....

Swiphemu

Khalara kotara ya tibaluni hi muhlovo wo tshwuka kasi leti saleke hinkwato hi muhlovo wa wasi.

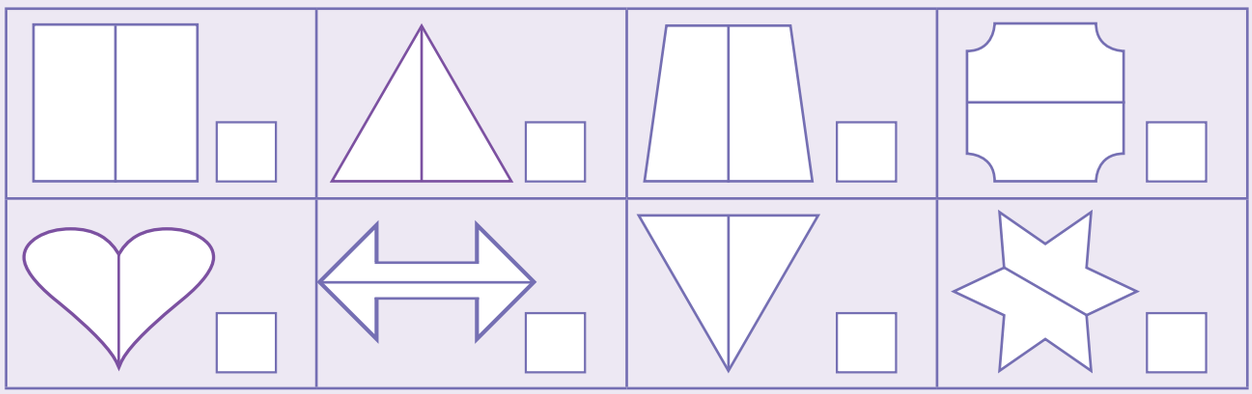
Khalara hafu yin'we ya bokisi rin'wana na rin'wana hi muhlovo wo tshwuka.





Languta xifaniso. Gwajula swivumbeko leswi kombisaka tihafu.

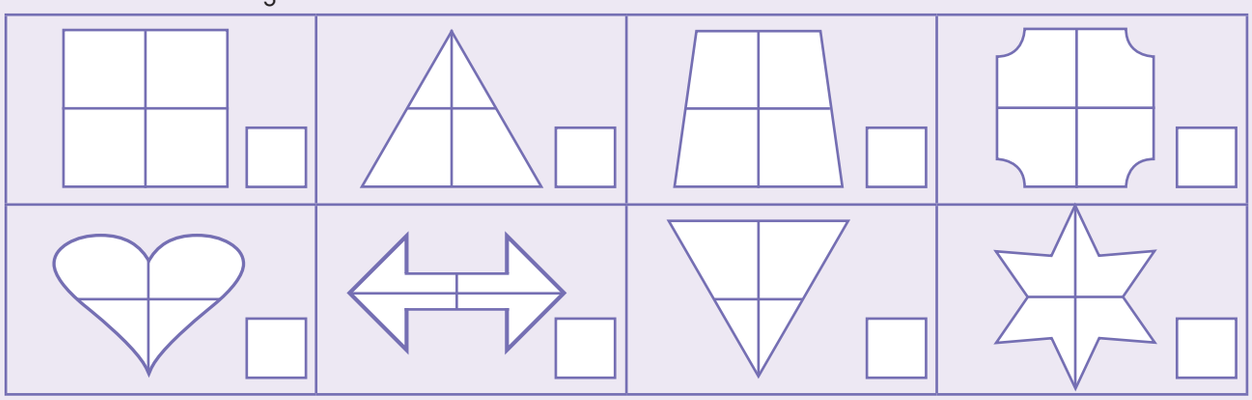
Khalara hafu yin'we ya xivumbeko xin'wana na xin'wana lexi nga avanyisiwa eka tihafu.





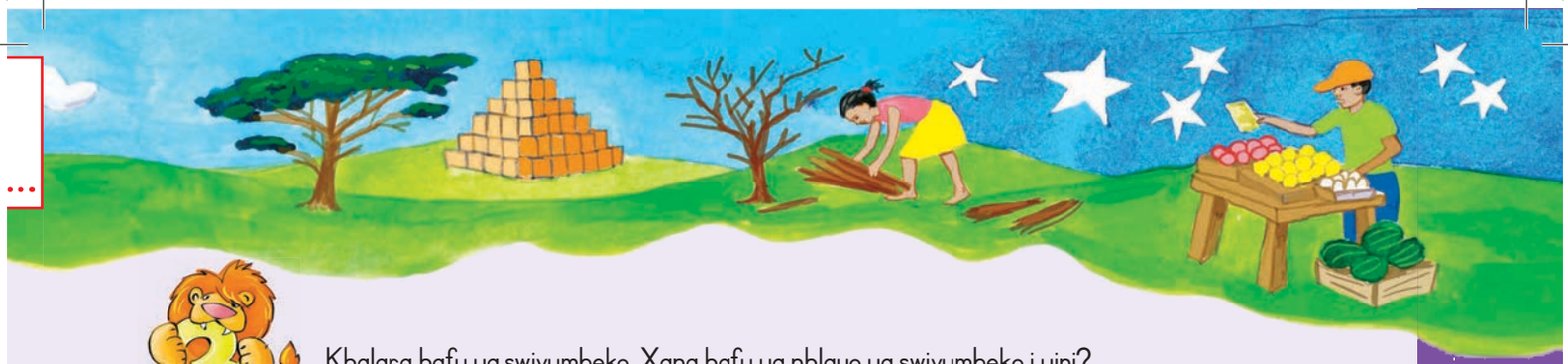
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tikotara.

Khalara kotara yin'we ya xivumbeko xin'wana na xin'wana lexi nga avanyisiwa eka tikotara leti ringanaka.

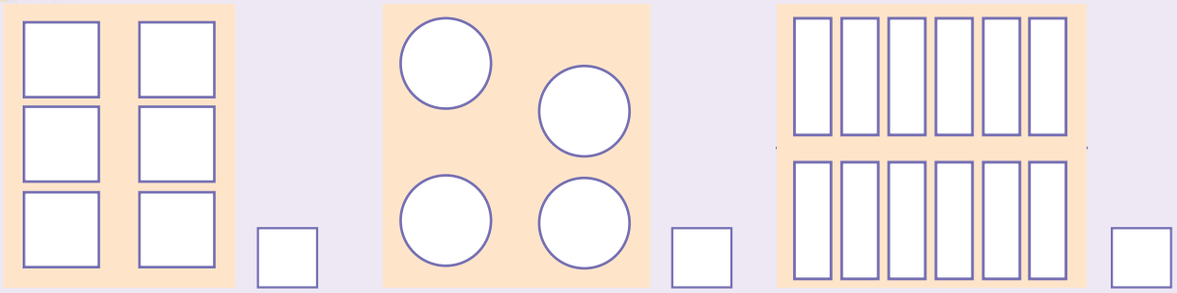


1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 WS1-16.indd 16 2014/05/09 1:10 PM

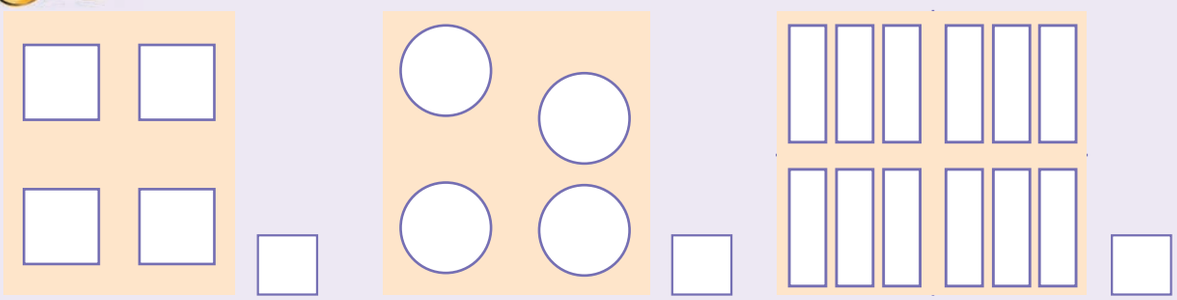


Khalara hafu ya swivumbeko. Xana hafu ya nhlayo ya swivumbeko i yini?





Khalara kotara ya swivumbeko. Xana kotara ya nhlayo ya swivumbeko i yini?

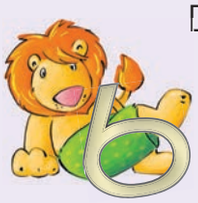




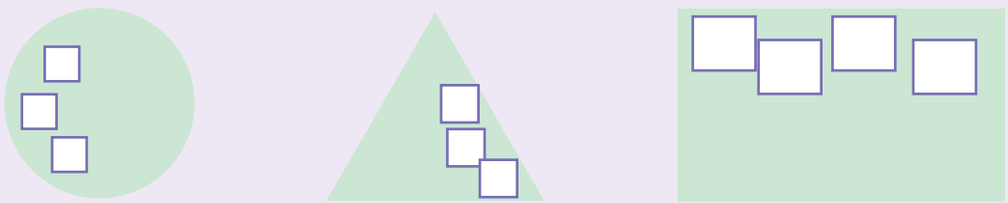
Tsala tanihi mfungho wa xiphemu.

hafu ☐

kotara ☐

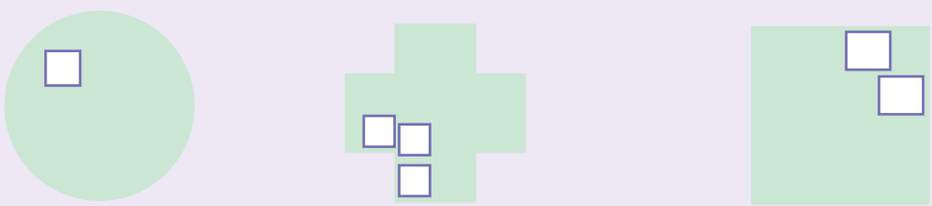


Dirowa swivumbeko swin'wana ku kota ku ringanisa hafu yin'wana na yin'wana.





Dirowa swivumbeko swin'wana ku kota ku ringanisa kotara yin'wana na yin'wana.

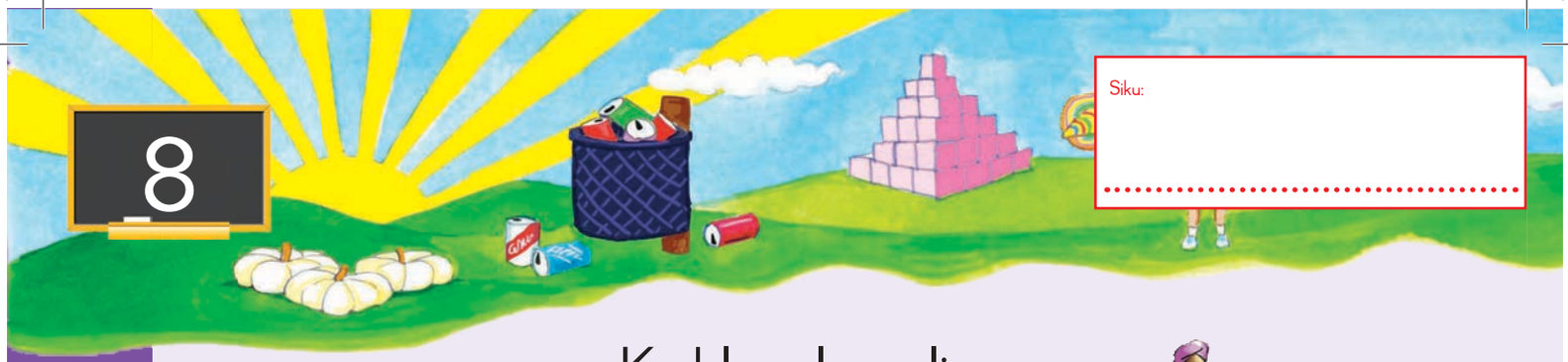






11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 17 2014/05/05 5:01 PM



Siku:

.....

Kotara ya 1

Ku hlawula mali



Exitokofeleni

Manana Lubisi u hlayela no hlawula mali yo huma eka swirho swa ntlawa wa vona.











Pimanyisa ntsengo hinkwawo.	R_____
Hlayela mali.	R_____

Ringanisa mikumbetelo na mitsengo.



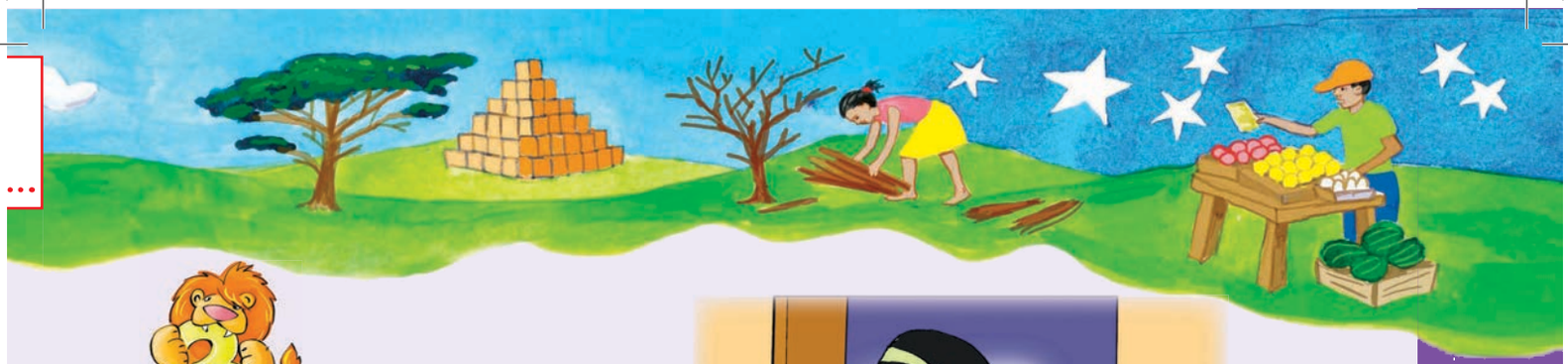
Ku hlayisa mali



Gugu u hlayisa mali yo kota ku xava tintanghu leti durhaka R89.
Ku fika sweswi u na hafu ya ntsengo.
Xana u lava mali muni yin'wana?
Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.

_____ _____ _____

XIT NUM G3 B1 9781431500147.indb 18 2014/05/05 5:01 PM



Ebangi



Maria u hlawulela timali ta phepha hi tinhulu ta 5.
U na timali ta phepha leti saleke.
Tsala mitsengo ya xifaniso xin'wana
na xin'wana.

	Ntsengo
	R_____
	R_____
	R_____



Ntlhontlho

Rendzo ro ya entangeni wa swiharhi

Vanhu lavakulu na vana va ya entangeni
wa swiharhi. Va xava mathikithi ya R90.

Xana vana i vangani? _____

Xana lavakulu i vangani? _____

Xana ku na nhlamulo yin'wana?

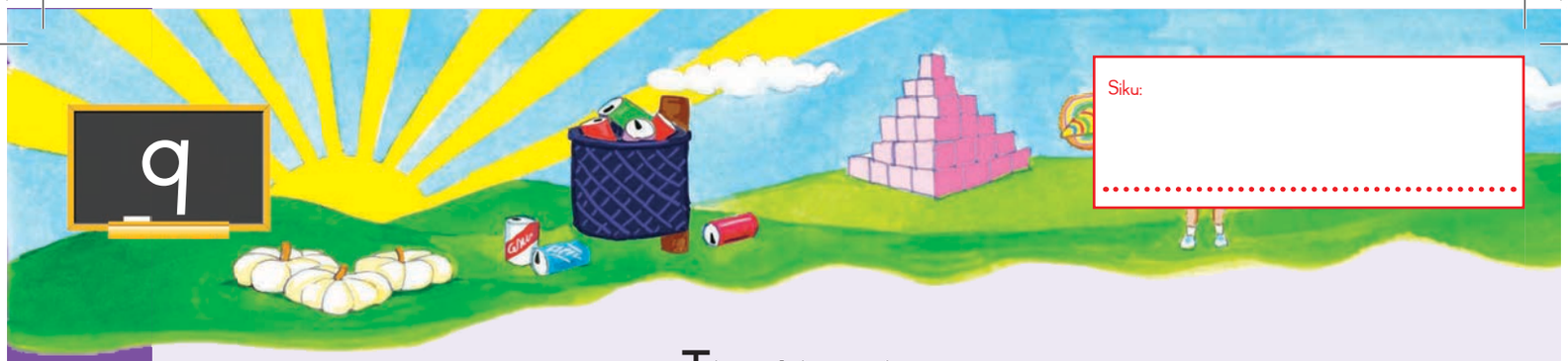
Vanhu lavakulu _____ Vana _____



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 19 2014/05/05 5:01 PM



Siku:

.....

Tipatironi



Tirhisa bodo leyi ya 200 wa tinomboro ku hlamula swivutiso.

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



Tirhisa bodo leyi ya 200 wa tinomboro ku hetisa tinomboro ta mune leti landzelaka eka tipatironi leti ta tinomboro. Kutani khalara patironi eka bodo ya tinomboro.

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

XIT NUM G3 B1 9781431500147.indb 20 2014/05/05 5:01 PM



Tsala tinomboro leti landzelaka eka patironi yin'wana na yin'wana. Kutani khalara patironi. Xana u lemuka yini hi tinomboro leti khalariweke hi muhlovo wun'we?

Ku hlayela hi **vuntlhanu**.

				5					10

Ku hlayela hi **vumbirhi**.

	2		4						

Ku hlayela hi **vunharhu**.

		3			6				

Ku hlayela hi **vukhume**.

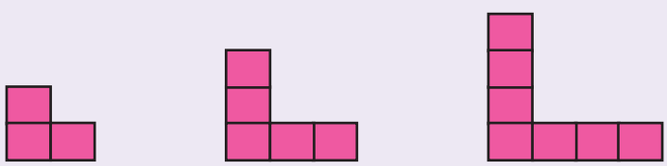
									10



Engetela patironi.







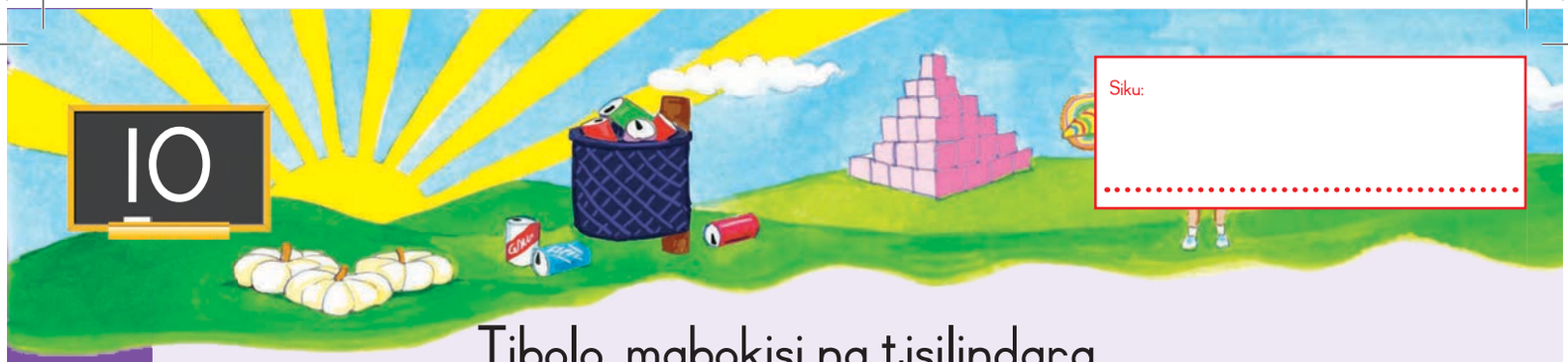
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 21 2014/05/05 5:01 PM



10

Siku:

.....

Tibolo, mabokisi na tisilindara







Bana xirhendzevutana eka mabokisi hi muhlovo wa wasi, tibolo hi wo tshwuka kasi tisilindara hi wa rihlaza.



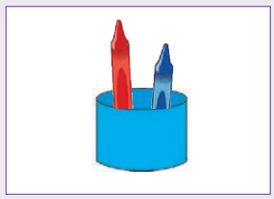


Khalara nhlamulo leyi faneleke.



Bokisi

rheta | khunguluka



Silindara

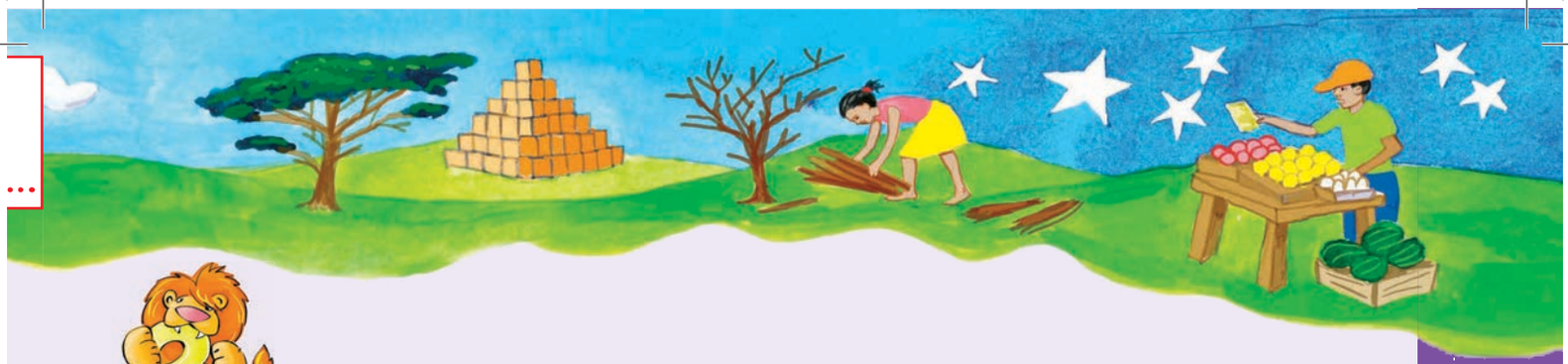
rheta | khunguluka



Bolo

rheta | khunguluka

XIT NUM G3 B1 9781431500147.indb 22 2014/05/05 5:01 PM



3 Khalara nhlamulo leyi faneleke.



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



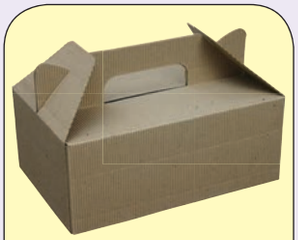
makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

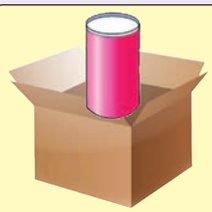
makumu yo thwixi



makumu yo khotseka

makumu yo thwixi

4 Vula loko bolo yi ri endzhaku ka, emahlweni ka, etlhelo ka kumbe ehenhla ka bokisi.



endzhaku ka | emahlweni ka

etlhelo ka | ehenhla ka



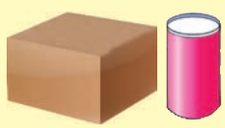
endzhaku ka | emahlweni ka

etlhelo ka | ehenhla ka



endzhaku ka | emahlweni ka

etlhelo ka | ehenhla ka



endzhaku ka | emahlweni ka

etlhelo ka | ehenhla ka

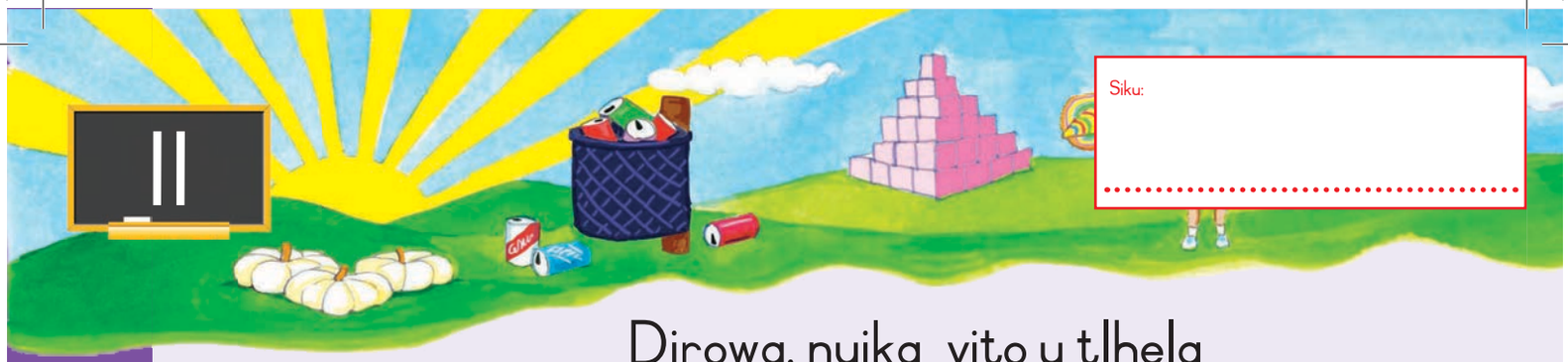
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 23 2014/05/05 5:02 PM



Siku:

Kotara ya 1

Dirowa, nyika vito u tlhela u ringanisa swivumbeko swa 2-D



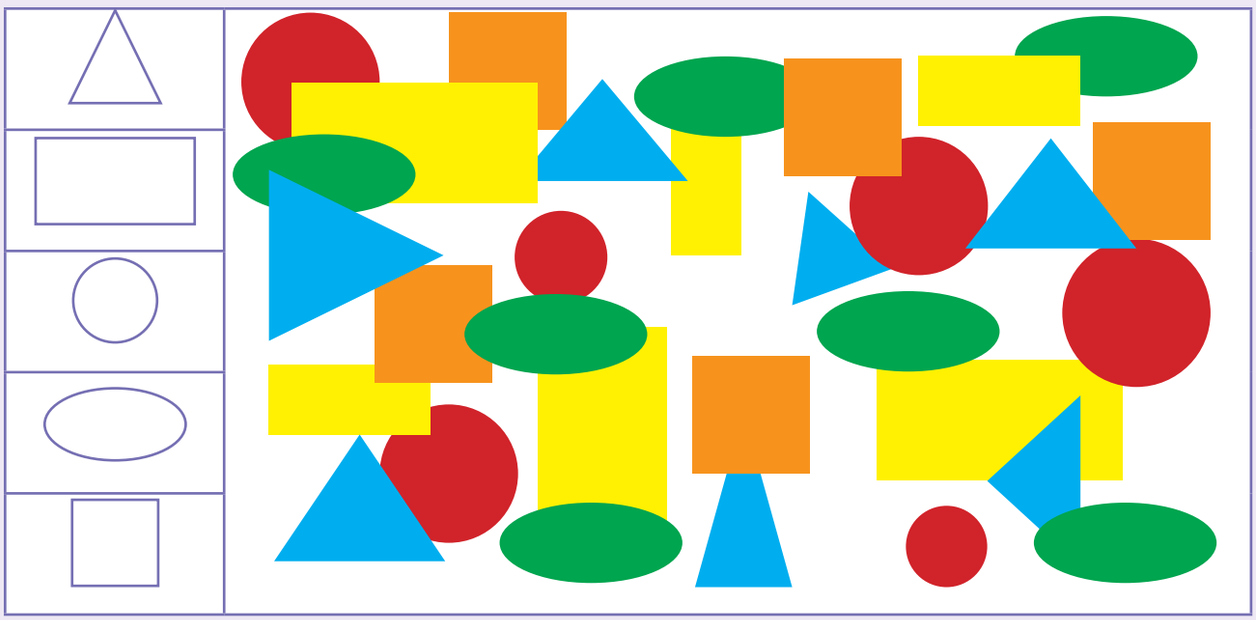
Dirowa swivumbeko

Yinhlanharhu		Xirhendzevutana	
Xikwere		Yinhlamune	



Ku hlayela swivumbeko

Hlayela leswaku ku na swivumbeko swingani swo fana na leswi u nga swi kuma exifanisweni.



XIT NUM G3 B1 9781431500147.indb 24 2014/05/05 5:02 PM

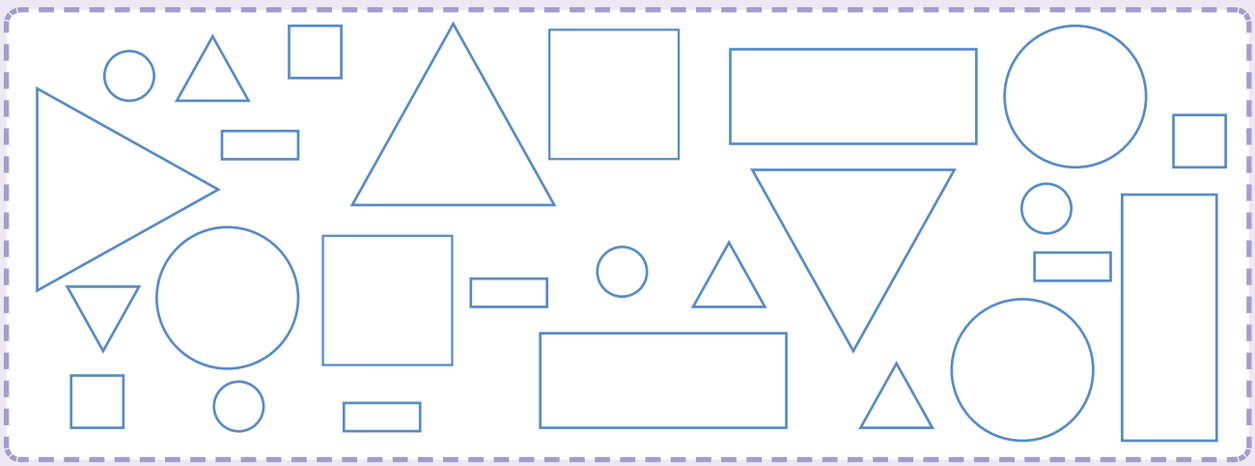




Khalara



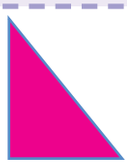
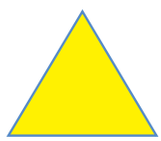
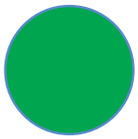
swirhendzevutana leswikulu hi muhlovo wo tshwuka, swirhendzevutana leswitsongo hi rihlaza; tinhlanharhu letikulu hi wasi, tinhlanharhu letitsongo hi xilamula; swikwere leswikulu hi xitshopana, swikwere leswitsongo hi xivunguvungu; tiyinhlamune letikulu hi buraweni, tiyinhlamune letitsongo hi pinki.





Xana ku na matlhelo mangani?

Xana i matlhelo mangani lama xivumbeko xin'wana na xin'wana xi nga na wona? Tsala nhlayo leyi nga eka xivumbeko. Hi ku endlele xin'we? Khalara nhlamulo leyi faneleke.

 3 yo khotseka / yo thwixi	 yo khotseka / yo thwixi	 yo khotseka / yo thwixi	 yo khotseka / yo thwixi
 yo khotseka / yo thwixi	 yo khotseka / yo thwixi	 yo khotseka / yo thwixi	 yo khotseka / yo thwixi



Teacher:
Sign:
Date:

XIT NUM G3 B1 9781431500147.indb 25 2014/05/05 5:02 PM



12

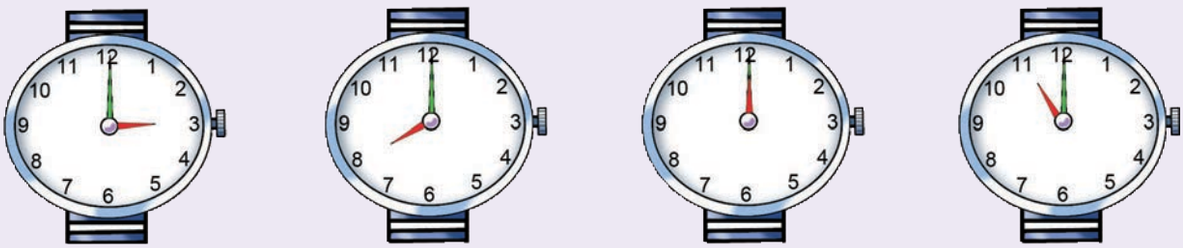
Siku:

Nkarhi wa famba



Ku hlaya nkarhi

Xana i minkarhi yihi leyi tiwachi leti ti yi kombisaka?

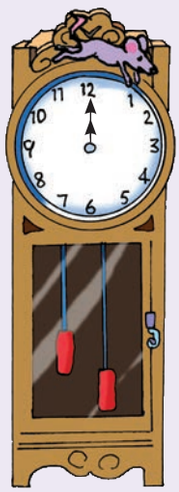


_____ ehenhla ka nhloko _____ ehenhla ka nhloko _____ ehenhla ka nhloko _____ ehenhla ka nhloko



Tlula u rhendzeleka na wachi

Pfuna kondlo ku hlayela timinete hi vuntlhanu.
Sungula eka 12. Famba u rhendzeleka ku fika emakumu.



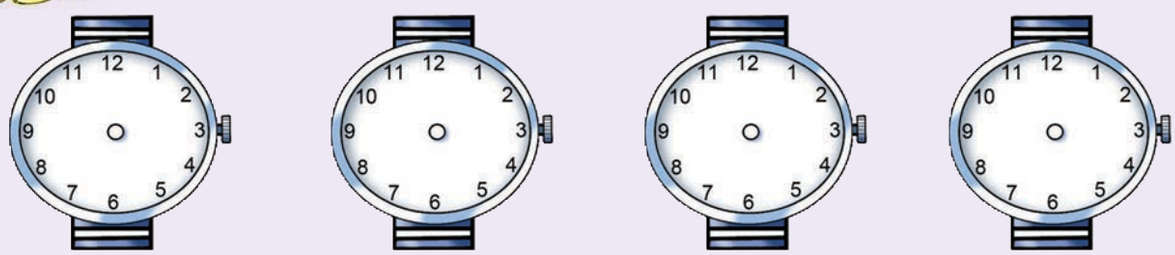
Xana u hlayele timinete tingani? _____

Xana ku na timinete tingani eka awara? _____



Ku tsala nkarhi

Dirowa timhondzo ku kombisa minkarhi.



kotara ku bile awara ya 6

hafu ku bile awara ya 8

kotara ku ya eka awara ya 11

hafu ku bile awara ya 5

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 26 2014/05/05 5:02 PM

Tumi u ya exikolweni.





U suka ekaya.



U fika exikolweni.

Xana Tumi u teka nkarhi wo tanihi kwihi? _____



Siku ro baka

Maria u baka xinkwa.



Xinkwa xi nghena eovheneni.



Xinkwa xa huma.



Xinkwa xi vupfa hi _____ wa timinete.



Ntlhontlho



I nkarhi wa ku andzisa kambirhi

a. Cinca tiawara ku ya eka timinete.

Tiawara	1	2	4	8
Timinete	60			

b. Jabu u teka 45 wa timinete ku fika exikolweni. Tumi u teka nkarhi lowu kambirhi ku endla tano. Xana Tumi u teka tiawara tingani ku fika exikolweni? _____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 27 2014/05/05 5:02 PM



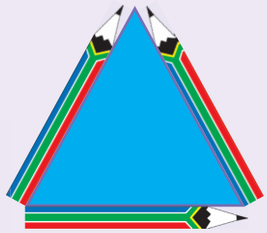
13

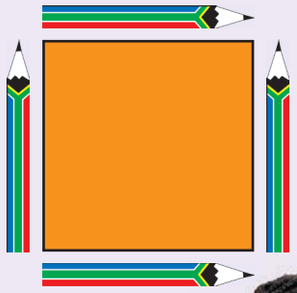
Siku:

Kotara ya 1

Ku pima ku leha











Kun'we, hinkwawo matlhelo ya yinhlanharhu leyi ya lehile ku ringana 3 wa tipensele.

Kun'we, hinkwawo matlhelo ya xikwere lexi ya lehile ku ringana 4 wa tipensele.

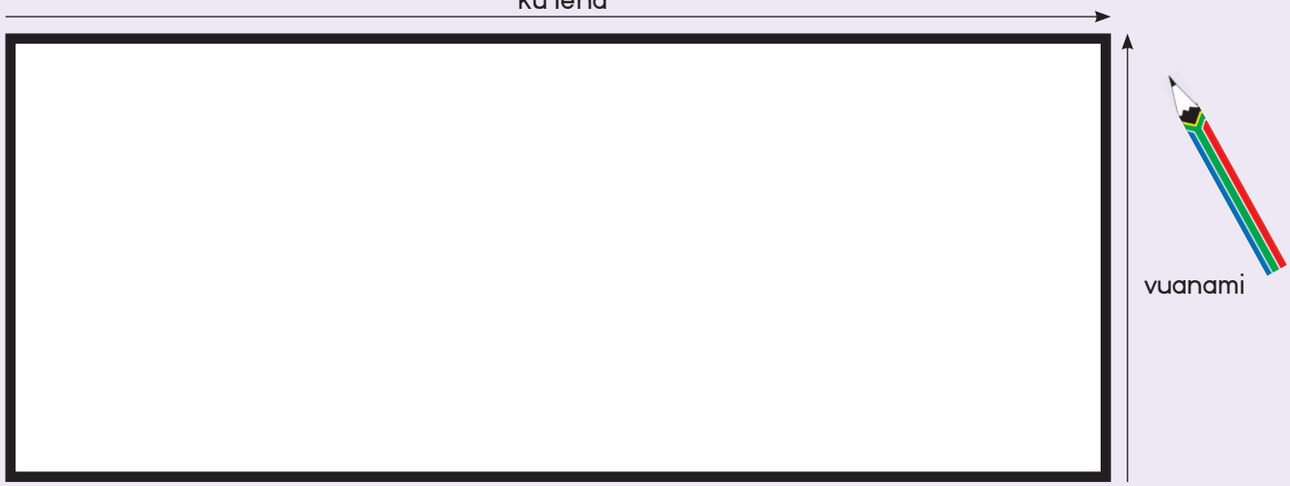




A ndzi tivi leswaku yinhlamune yi lehile no anama ku fika kwihi.

Xana yinhlamune yi lehile ku ringana tipensele tingani?

Xana yinhlamune yi anamile ku ringana tipensele tingani?



Xana u ti tirhise njhani tipensele ku hlayela?



XIT NUM G3 B1 9781431500147.indb 28 2014/05/05 5:02 PM



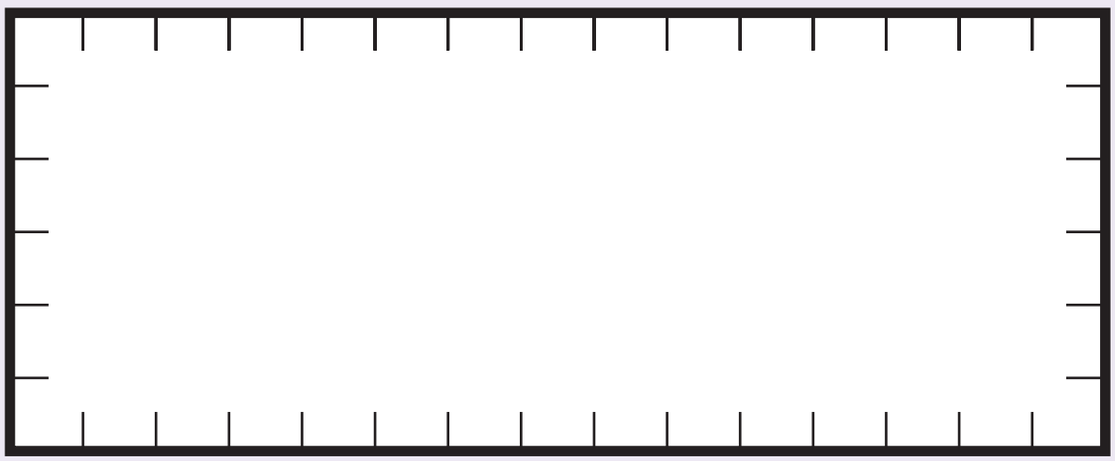


Ku leha ko hlamarisa

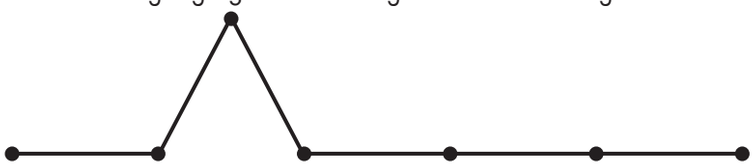
a. Xana i mitila yo tshwuka yingani leyi u faneleke ku yi kuma ku kota ku ringana na ntila wa ntima?



b. Xana i mitila yo tshwuka yingani leyi u faneleke ku yi kuma ku kota ku rhendzeleka na rekthengula?



c. Xana hi yihi yi nga leha, ndlela ya le henhla kumbe ya le hansi, kumbe ta ringana?





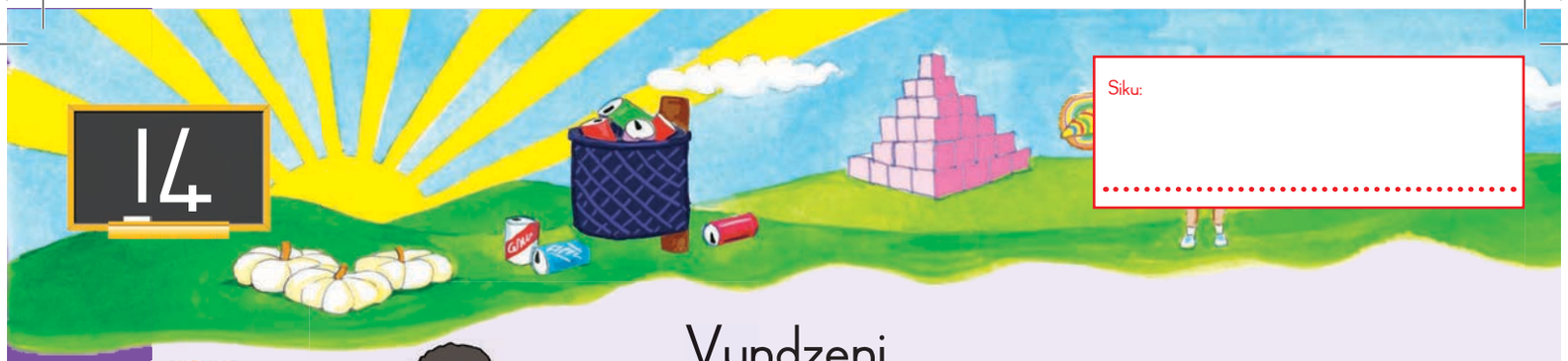
Nhlamulo _____

Hikwalaho ka yini? _____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 29 2014/05/05 5:02 PM



14

Siku:

Vundzeni





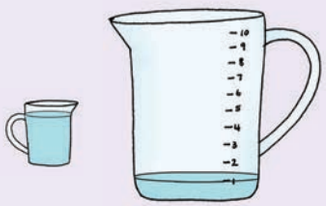
Se ndzi cherile malepula ya mune endzeni ka khapu.

Xana ku laveka tikhapu tin'wana tingani ku kota ku tata xibye xo chela?_____



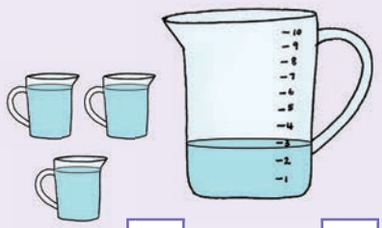
Xana ku na tikhapu ta mati tingani exibyeni xo chela? Xana ku laveka tikhapu tin'wana tingani ku kota ku tata xibye xo chela?

a.



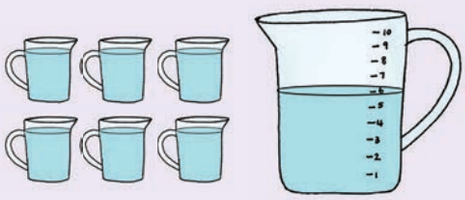
Endzeni ka xibye: 1 Ku laveka: 9

b.



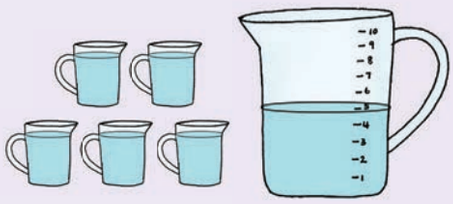
Endzeni ka xibye: ____ Ku laveka: ____

c.



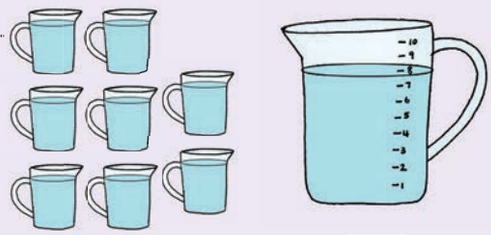
Endzeni ka xibye: ____ Ku laveka: ____

d.



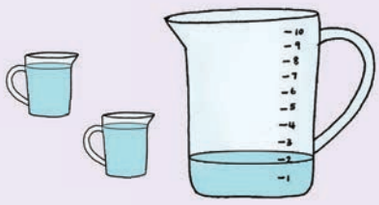
Endzeni ka xibye: ____ Ku laveka: ____

e.



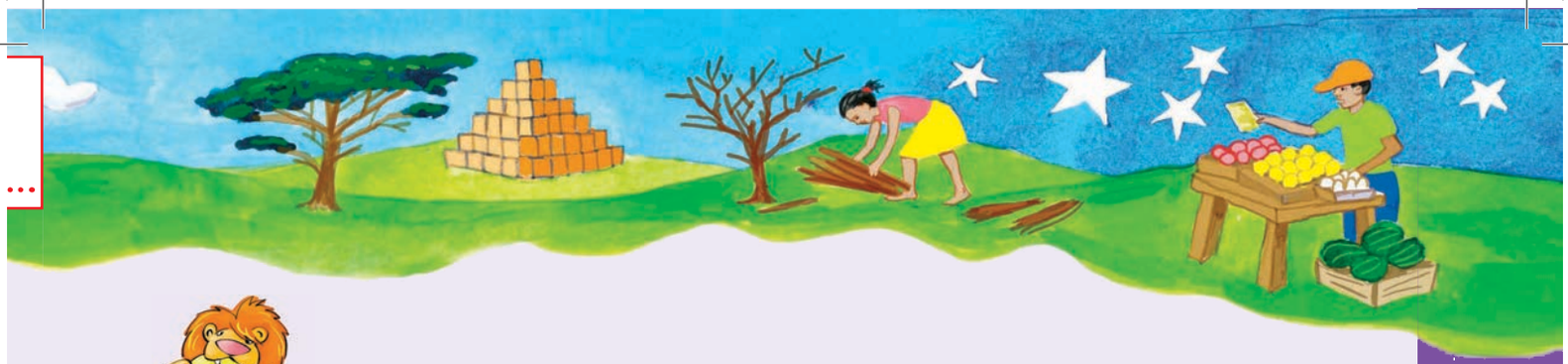
Endzeni ka xibye: ____ Ku laveka: ____

f.



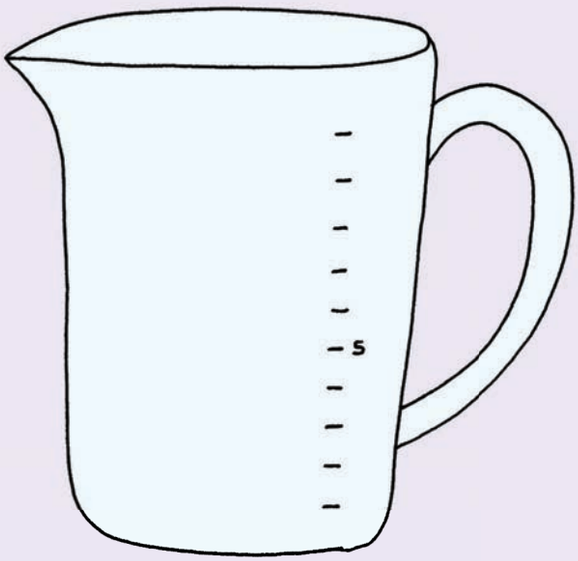
Endzeni ka xibye: ____ Ku laveka: ____

XIT NUM G3 B1 9781431500147.indb 30 2014/05/05 5:02 PM





Tsala swikhandlu eka jeke leyi yo pima. Hi kombisile xikhandlu xa 5.
Tata swikhandlu swin'wana ejekeni.



Loko khapu yin'we yi tata jeke ku fika eka xikhandlu xa vumbirhi, xana u fanele ku kuma tikhapu tingani leswaku u kota ku tata jeke ku fika eka:

a. 4 _____

b. 6 _____

c. 8 _____

d. 10 _____



Gwajula swibye swo chela leswi khomaka 1 litara ya swihalaki.

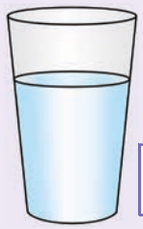












Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 31 2014/05/05 5:02 PM

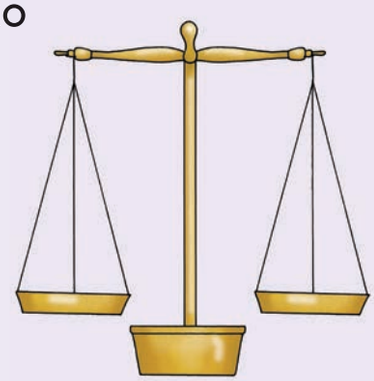


Siku:

Ku tirha hi ntiko



A hi pimeni ntiko!



Ku kota ku kuma leswaku hi tika kumbe hi vevuka ku fika kwihi, hi tirhisa xikalu.

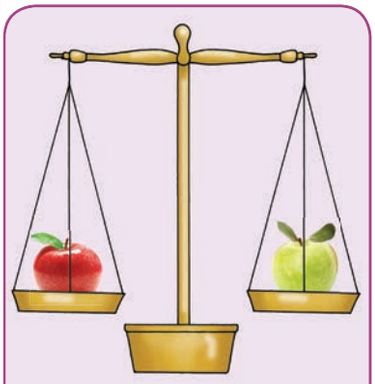
Hi pima ntiko hi tikilogiramu. Hi tirhisa nkomiso wa: kg.
I mani loyi a nga na ntiko lowukulu?



41 kg | 38 kg | 41 kg | 42 kg | 39 kg

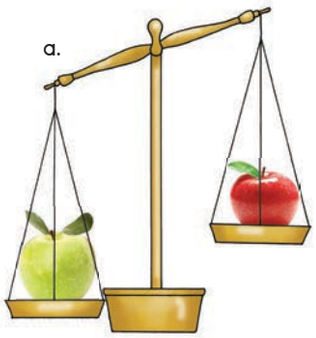


Hi tirhisa xikalu xa balansi ku pima ntiko.

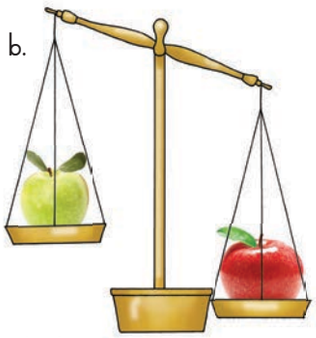


Eka xikalu lexi maapula hinkwawo ya tika ku ringana.

a.



b.



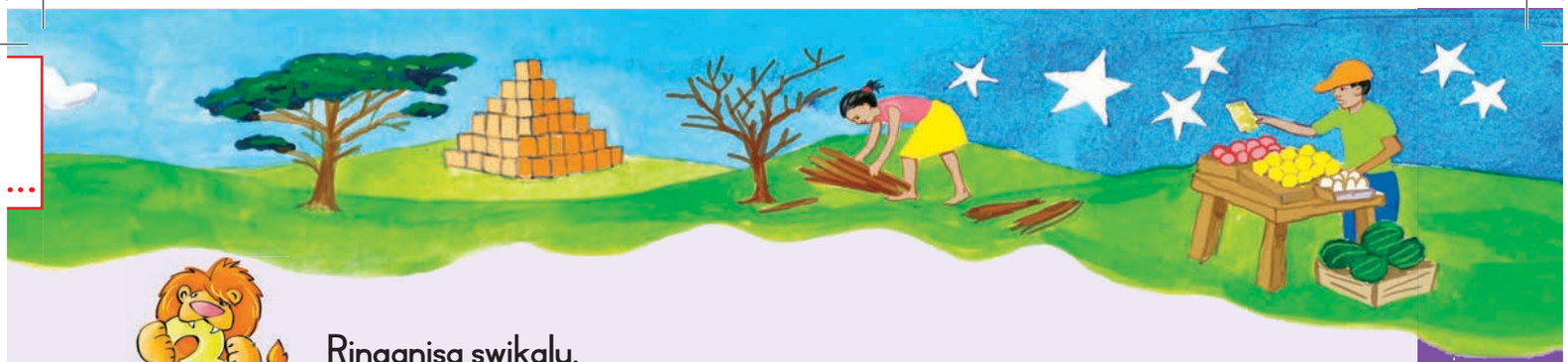
Hlamula xivutiso hi ku tsala a kumbe b.

Hi le ka xikalu xihi laha apula ra rihlaza ri tikaka ku tlula apula ro tshwuka? ☐

Hi le ka xikalu xihi laha apula ra rihlaza ri vevukaka ku tlula apula ro tshwuka? ☐

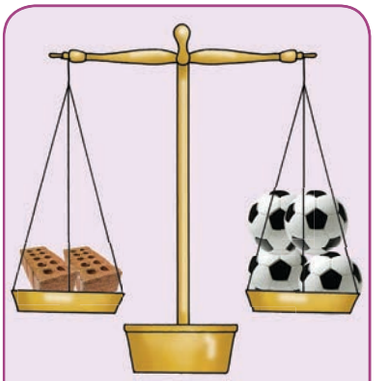
1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 32 2014/05/05 5:02 PM



Ringanisa swikalu.

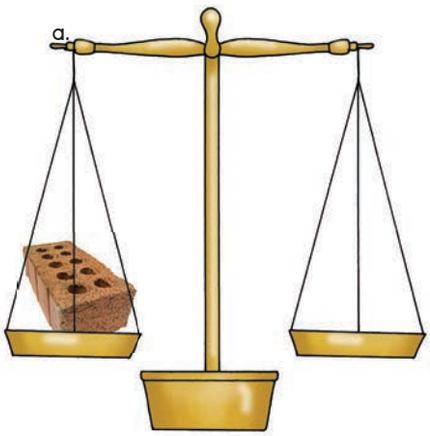
Hi ku endlele xo sungula.



Switina swimbirhi swi na mpimo lowu ringanaka na wa tibolo ta mune.

Dirowa leswaku i switina swingani kumbe i tibolo tingani leti lavekaka ku kota ku balansisa swikalu.

a.



b.



Loko phasele rin'we ri tika 3 kg, xana 2 na 3 wa maphasela ya ta va na ntiko muni?



a. 2 maphasela _____

b. 3 maphasela _____

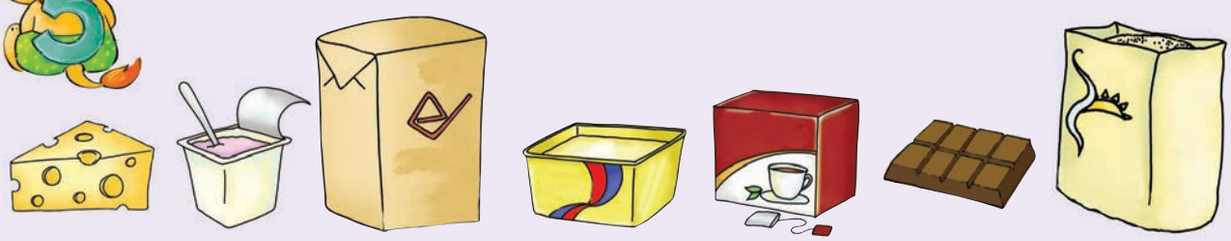
c. Xana ndzi nga swi kota ku pima 4 wa maphasele hi nkarhi wun'we exikalwini xa khichi? _____

Hikwalaho ka yini swi koteka kumbe swi nga koteki? _____

_____

_____

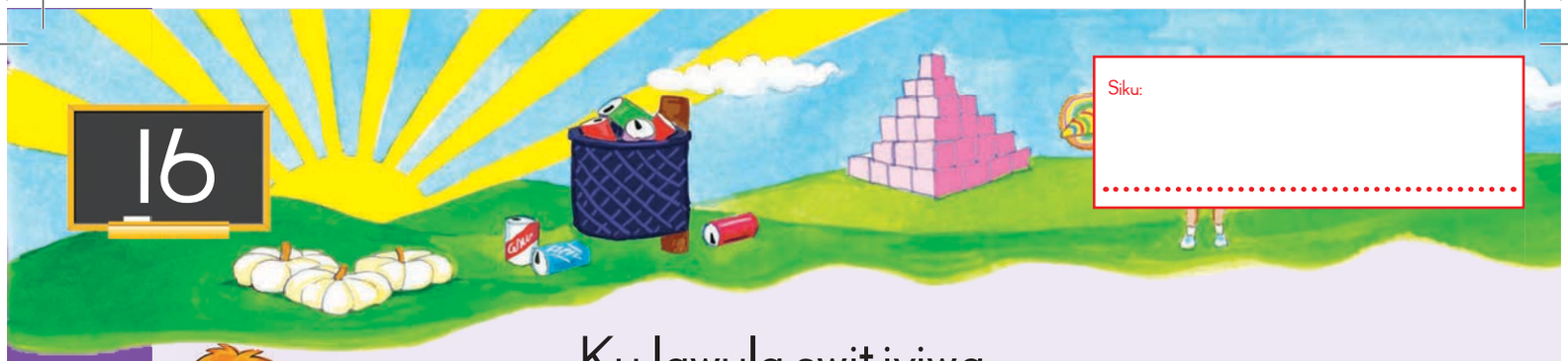
Gwajula swibye swo chela leswi khomaka 1 kg, 500 g, 250 g, 200 g.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 33 2014/05/05 5:02 PM



16

Siku:

Kotara ya 1

Ku lawula switiviwa



Tintanghu etlilasini



Hlaya xitori.

Thabo: Yoo, mudyondzisi! Jack i xihontlovila! U ambala tintanghu ta sayizi ya 6!

Manana Khoza: Swi kahle! Ina, Thabo, leyo i yikulu eka n'wana wa malembe ya kaye hi vukhale! Xana u na ntanghu ya sayizi yihi Thabo? Xana hi tihi tisayizi leti ambariwaka hi tlilasi hinkwayo? A hi endleni mbalango!

Vadyondzi va huwelela tisayizi ta vona hi un'we un'we.

Manana Khoza u tsala tisayizi exitsalelweni.

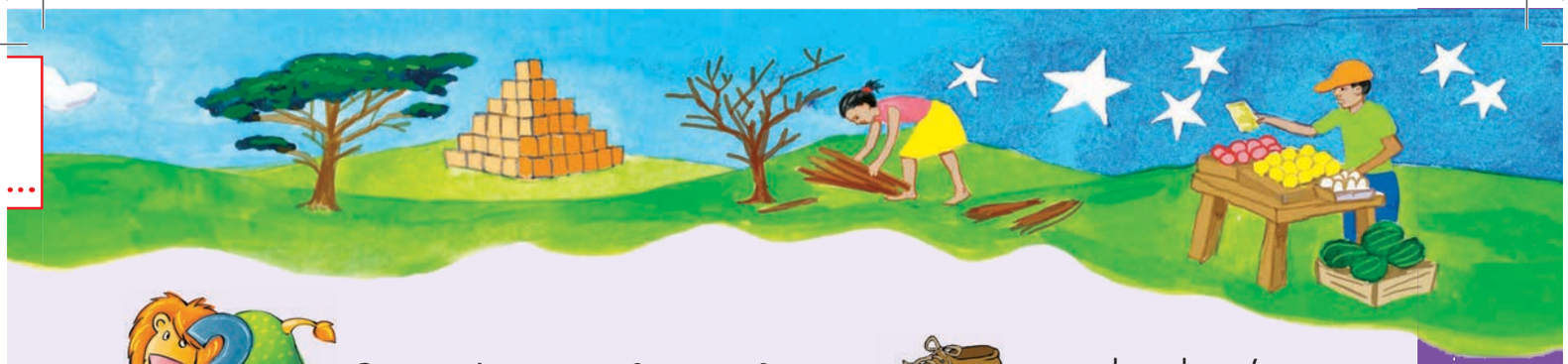
Manana Khoza: Hlayelani, kutani mi tsala ntsengo wa sayizi yin'wana na yin'wana etafuleni.

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

Tatisa tafula leri nga laha hansi.

Tisayizi ta tintanghu etlilasini					
Sayizi ya 1	Sayizi ya 2	Sayizi ya 3	Sayizi ya 4	Sayizi ya 5	Sayizi ya 6

XIT NUM G3 B1 9781431500147.indb 34 2014/05/05 5:02 PM



Sweswi dirowa girafu ya swifaniso



= mudyondzi un'we

					
Sayizi ya 1	Sayizi ya 2	Sayizi ya 3	Sayizi ya 4	Sayizi ya 5	Sayizi ya 6



Sweswi hlamula swivutiso leswi.

a. Vadyondzi vo tala va ambala tintanghu ta sayizi ya _____.

b. Nhlayo leyitsongo swinene yi ambala sayizi ya _____.

c. Vana va _____ va nghenerile mbalango lowu.



Wena ke?

Kumisisa leswaku wena na vanghana va wena mi ambala tisayizi tihi!

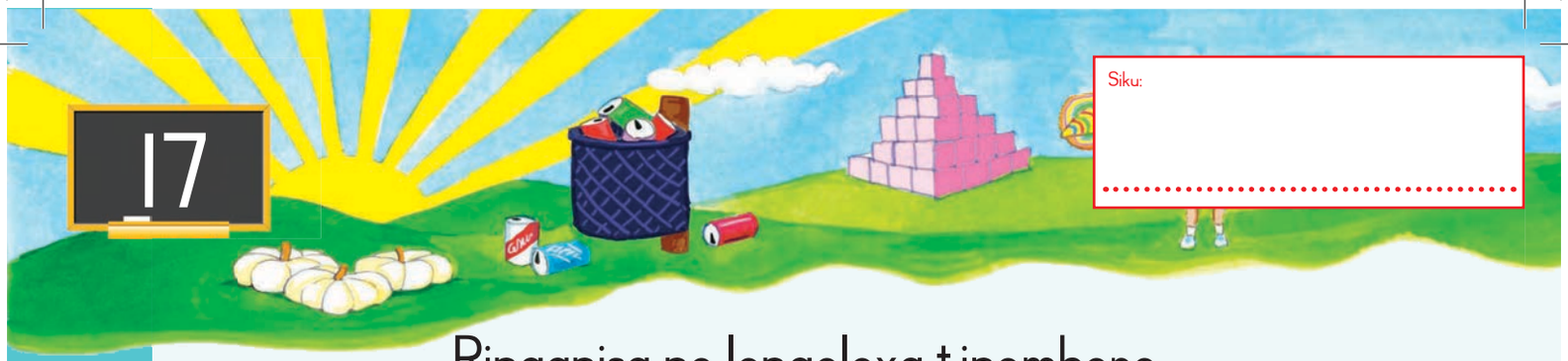
- Tirhani hi ntlawa wa 6 ku fika eka 8.
- Hlengeletani switiviwa swa n'wina.
- Tsalani nhlayo ya tisayizi ta tintanghu etafuleni.
- Ringanisani tinhlamulo na mitlawa yin'wana.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 35 2014/05/05 5:02 PM



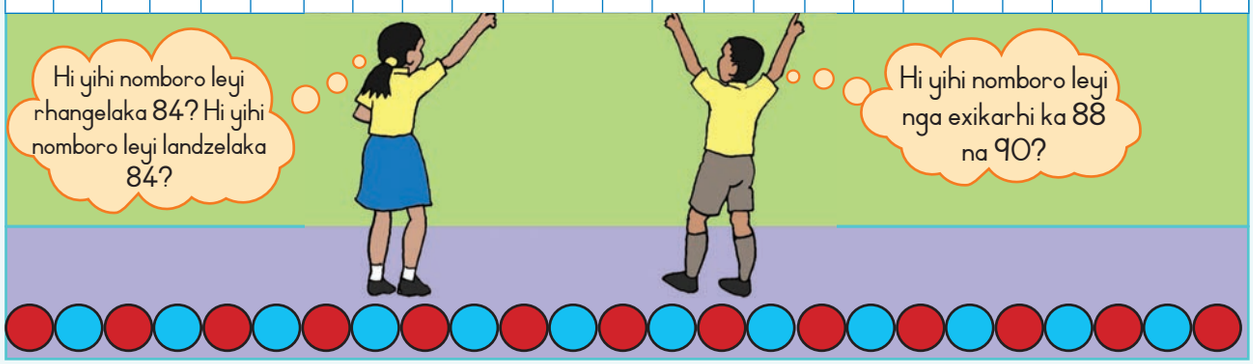
17

Siku:

Kotara ya 1

Ringanisa no longoloxa tinomboro

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





Tata tinomboro leti siyiweke.

51									
						67			
71									
									100

Tirhisa bodo ya tinomboro ku hlamula swivutiso.

- Hi yihi nomboro leyi rhangelaka 68? _____
- Hi yihi nomboro leyi landzelaka 68? _____
- Tsala tinomboro ta ntlhanu leti nga letitsongo eka 71. _____, _____, _____, _____, _____
- Tsala tinomboro ta ntlhanu leti nga letikulu eka 71. _____, _____, _____, _____, _____
- Hi tihi tinomboro leti kumekaka exikarhi ka 79 na 84? _____
- Tsala tinomboro ku suka eka leyitsongo swinene ku ya eka leyikulu swinene. 73, 52, 50, 59, 61

  _____
- Tsala tinomboro ku suka eka leyikulu swinene ku ya eka leyitsongo swinene. 74, 96, 99, 91, 38

  _____

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 36 2014/05/05 5:02 PM



Hetisa tafula. Sungula hi nomboro leyi nyikiweke.

	Engetela hi n'we	Hunguta hi n'we	Engetela hi khume	Hunguta hi khume
25				
39				
74				
56				
40				



Bana xirhendzevutana eka nomboro leyikulu swinene.

78	87	17	36	63	33

Bana xirhendzevutana eka nomboro leyitsongo swinene.

99	19	9	14	41	40



Loko < yi vula i yitsongo eka na > yi vula i yikulu eka, hetisa:

32 [>] 64 23 [>] 18

57 [ ] 98 89 [ ] 57

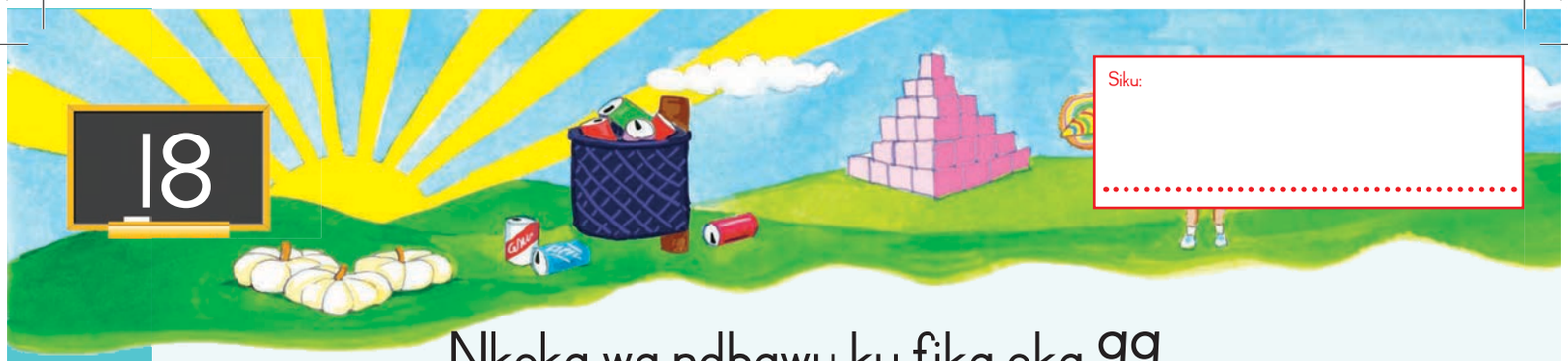


Lava 5 wa tinomboro eka nyuziphepha leti nga exikarhi ka 50 na 99 kutani u ti damarheta laha.



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 37 2014/05/05 5:02 PM



18

Siku:

.....

Nkoka wa ndhawu ku fika eka 99

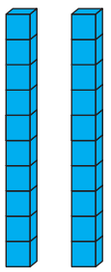


Ku kombisa tinomboro hi ku tirhisa swilo

Hi nga kombisa tinomboro hi tibuloko ta nkoka wa ndhawu.

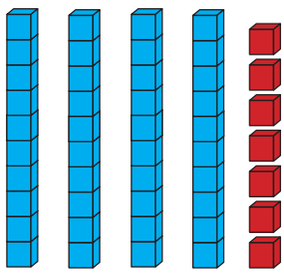
Buloko leyitsongo yi yimela 1. I yuniti/vun'we.

Nhonga ya 10 wa tibuloko letitsongo yi yimela 10. I 10.

Vukhume	Vun'we
	

U nga kombisa nomboro hi ku tirhisa vukhume na vun'we.

Leswi hi nga kombisisaka xiswona 47.



Vukhume	Vun'we
4	7

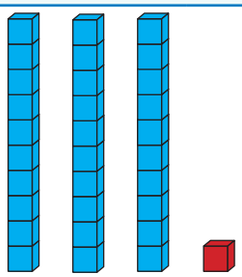
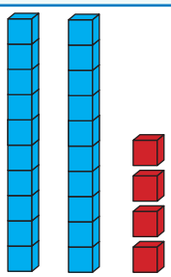
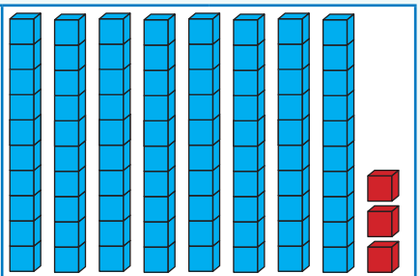
makumemune nkombo

47



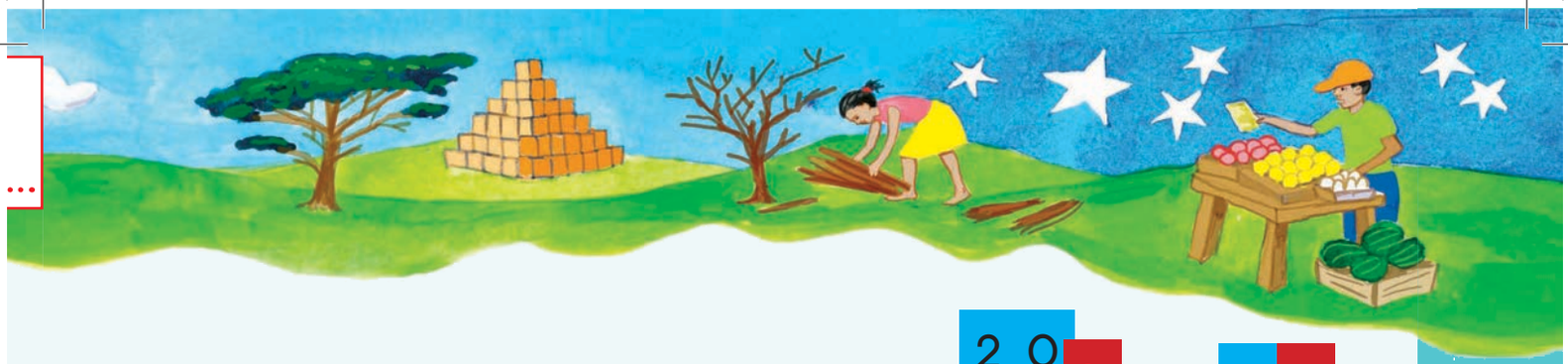
Ku tsala tinomboro hi tidijiti na hi marito

a. Ehansi ka xifaniso, tsala leswaku ku na vukhume byingani na leswaku ku na vun'we byingani. Kutani tsala nomboro hi tidijiti na hi marito.

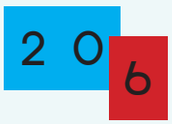
					
Vukhume	Vun'we	Vukhume	Vun'we	Vukhume	Vun'we
3	1				
31 makumenharhu n'we		_____ _____		_____ _____	

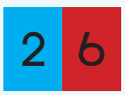
1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 38 2014/05/05 5:02 PM



b. Hi nga tlhela hi tirhisa makhadi ya tinomboro ku swi kombisa.

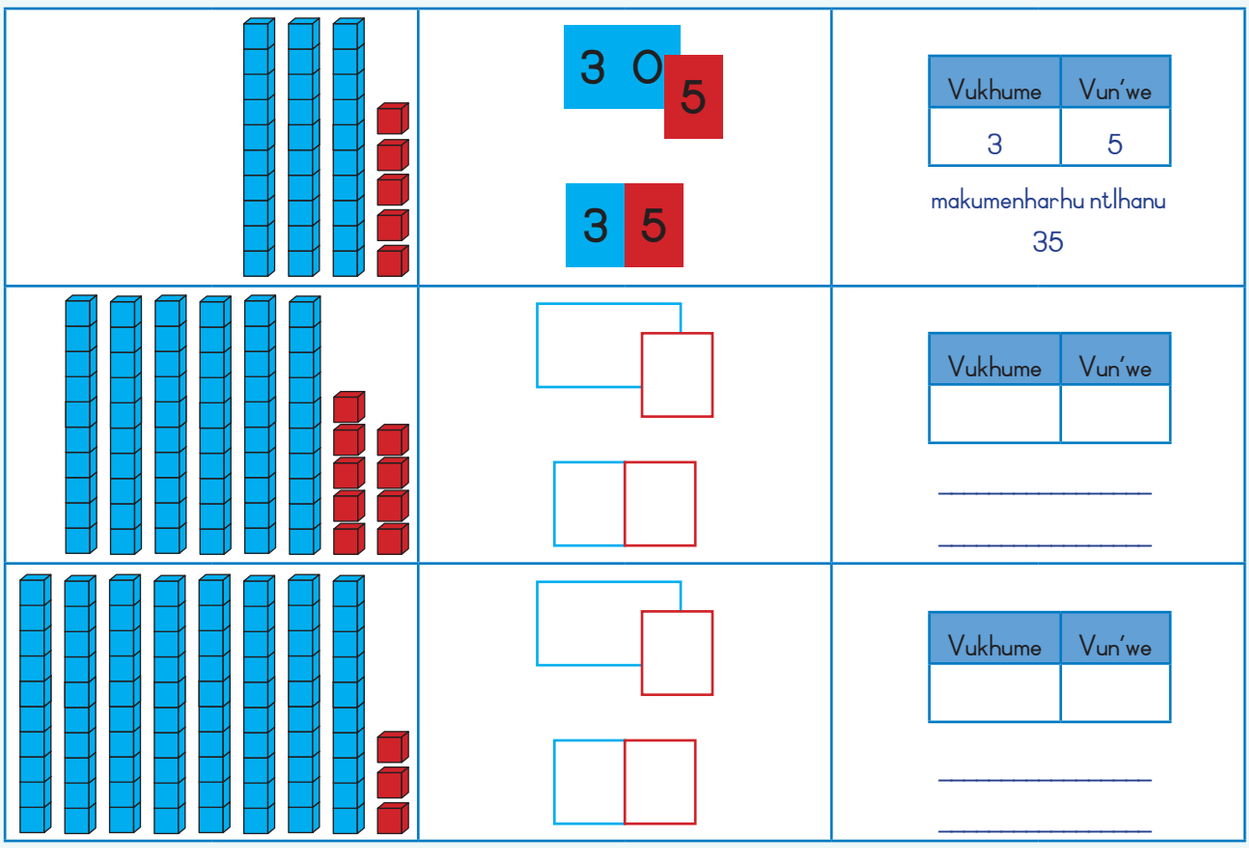




Nhlayo	Xana i vukhume byingani?	Ku na vun'we byinganii?	Tsala nomboro hi marito
26	2	6	makumembirhi ntsevu
46			
99			



Xana nomboro i yini?





11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 39 2014/05/05 5:02 PM

19

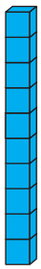
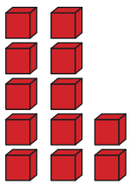
Siku:

Ku veka vukhume kun'we loko hi hlanganisa eka 99

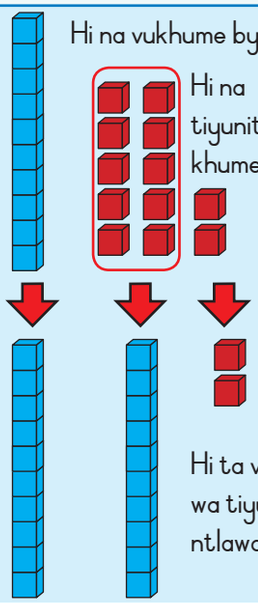


Hlaya

Hi leyi ndlela yin'wana ya ku kombisa 22.

Vukhume	Vun'we
	
1 khume	12 ya vun'we
1 0	1 0 2

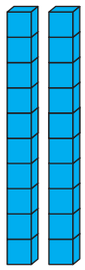
Hi na vukhume byin'we



Hi na tiyuniti ta khumembirhi

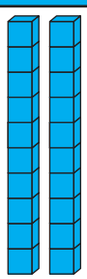
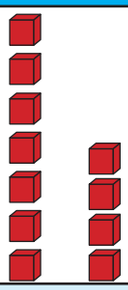
Hi ta veka 10 wa tiyuniti hi ntlawa.

Sweswi hi na ndlela yin'wana ya ku kombisa 22.

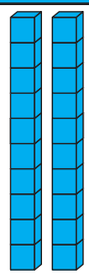
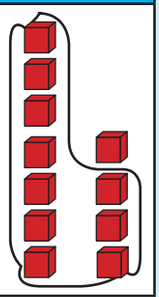
Vukhume	Vun'we
	
2 ya vukhume	2 ya vun'we
2 2	

A hi hlanganise 27 + 4. Tibuloko ta wasi hi leti ti sungulaka. Leti ta pinki hi leti hi hlanganisaka eka tona.

27 i 2 ya vukhume na 7 ya vun'we. Kutani hi hlanganisa 4 ya vun'we byin'wana.

Vukhume	Vun'we
	
2 ya vukhume	7 ya vun'we + 4 ya vun'we
2 0	7 4

Hi na 2 ya vukhume na 11 ya vun'we

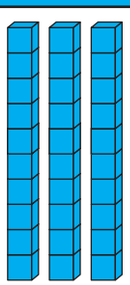
Vukhume	Vun'we
	

Hi nga kombisa 10 ya vun'we tanihi khume rin'we.

2 0 1 0 1

Sweswi hi na

3 vukhume + 1 vun'we = 31

Vukhume	Vun'we
	

___ + ___ = ___

3 1

XIT NUM G3 B1 9781431500147.indb 40 2014/05/05 5:02 PM



Tsala xivulwa xa tinomboro lexi kombisiwaka hi xifaniso

Vukhume	Vun'we

10 + 5 + 6

Vukhume	Vun'we

___ + ___ + ___

Vukhume	Vun'we

___ + ___ = ____

Hetisa xifaniso. Tsala swivulwa swa tinomboro leswi kombisiwaka hi xifaniso.

Vukhume	Vun'we

Vukhume	Vun'we

Vukhume	Vun'we

Vukhume	Vun'we

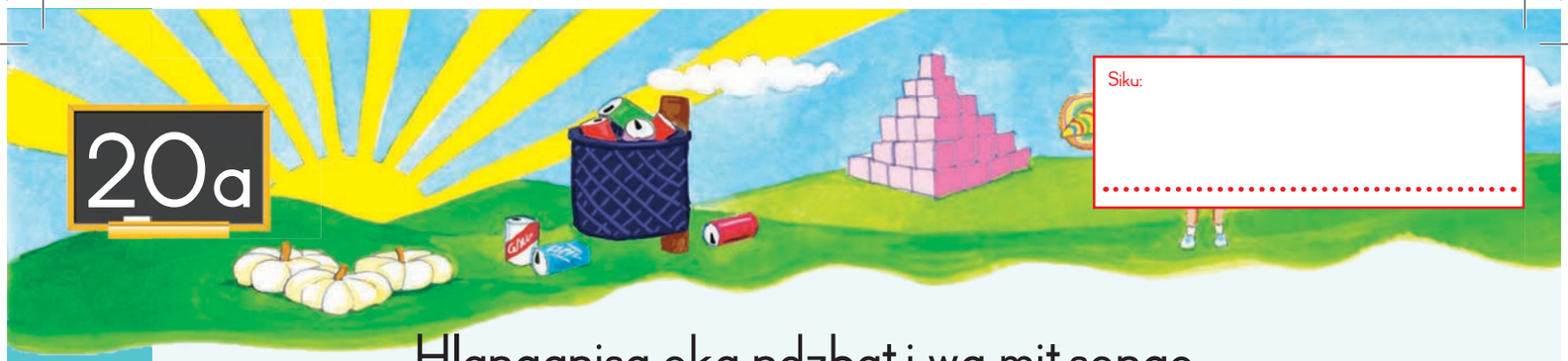
Vukhume	Vun'we

Vukhume	Vun'we

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 41 2014/05/05 5:02 PM



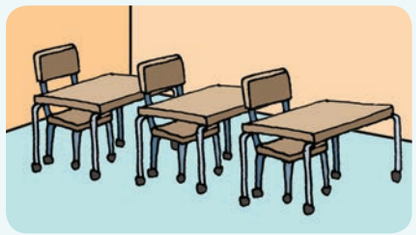
20a

Siku:

Hlanganisa eka ndzhati wa mitsengo

Kotara ya 1

Tshama edesikeni ra wena!

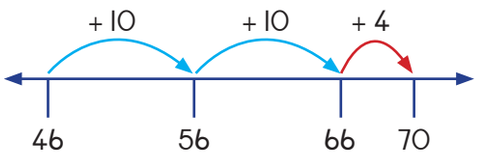


Exikolweni xa hina mudyondzi un'wana na un'wana u na desika ra yena.
Ku na 46 wa vadyondzi eka Giredi ya 3A na 24 eka Giredi ya 3B.
Xana i madesika mangani ma lavekaka eka titlilasi letimbirhi?

Tirha na nakuloni

Languta hilaha vadyondzi lavanharhu va tirhisaka xiswona ndzhati wa mitsengo ku lulamisa xiphiqo.
Hetisa tinhlayo u tirhisa xikombiso.





Leswi ndzi endlaka swona hi leswi: Ndzi sungula ndzi hlanganisa 10.
Leswi swi ndzi fikisa eka 56. Kutani ndzi tlula 10 yin'wana ku fika eka 66.
Ro hetelela, ndzi tlula 4 ku jitamela eka 70.

= 46 + 10 + 10 + 4

= 56 + 10 + 4

= 66 + 4

= 70

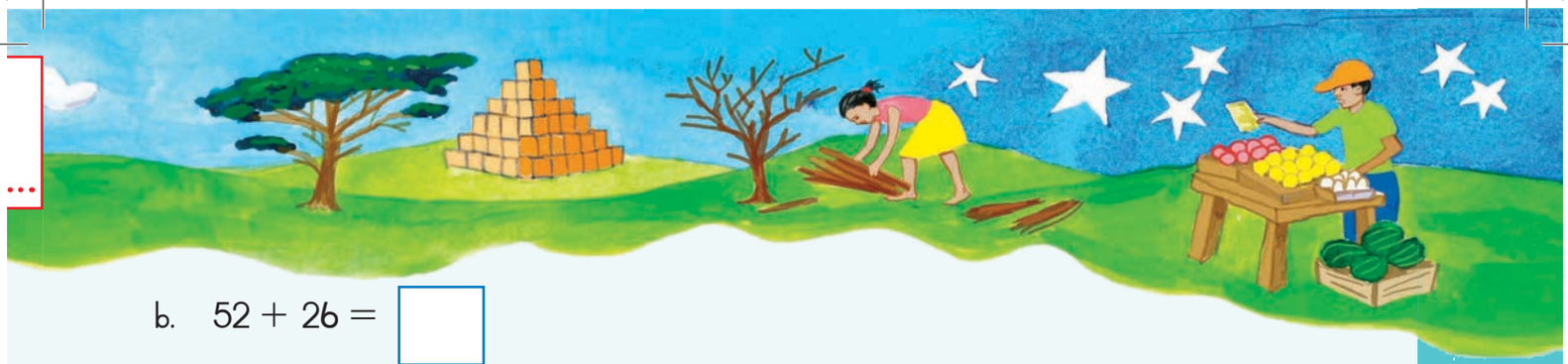
Ndzi fanele ku hlanganisa 24 eka 46.



a. 32 + 25 = ☐

1 2 3 4 5 6 7 8 9 10

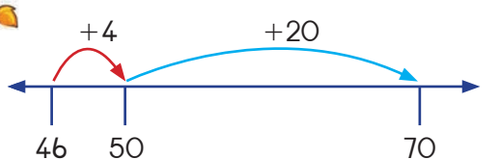
XIT NUM G3 B1 9781431500147.indb 42 2014/05/05 5:02 PM



b. $52 + 26 =$ ☐

c. $46 + 25 =$ ☐





Ndzi fanele ku hlanganisa 24 eka 46.



Leswi ndzi endlaka swona hi leswi: Ro sungula ndzi ta tlula 4. Sweswo swi ta ndzi fikisa eka 50. Ndzi nga tlula 20 tin'wana, leswi ndzi fikisaka eka 70.

$= 40 + 10 + 20$

$= 50 + 20$

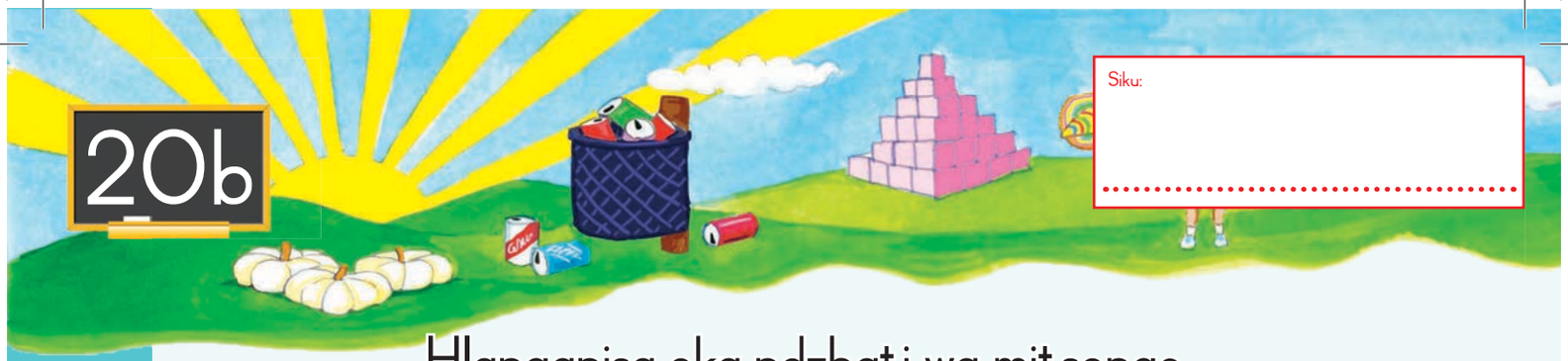
$= 70$

a. $36 + 41 =$ ☐

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 43 2014/05/05 5:02 PM



20b

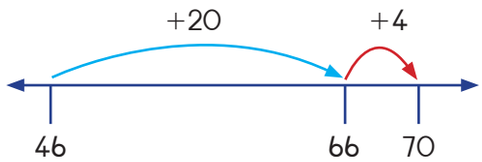
Siku:

Kotara ya 1

Hlanganisa eka ndzhati wa mitsengo (ku yisa emahlweni)

b. $57 + 19 =$ ☐





Ndzi fanele ku engetela 24 eka 46.



Leswi ndzi endlaka swona hi leswi: Ku suka eka **46**, ndzi nga tlula 20. Sweswo swi ndzi fikisa eka **66**. Sweswi ndzi fanele ku tlula 4 tin'wana kutani ndzi fika eka 70.

$= 46 + 20 + 4$

$= 66 + 4$

$= 70$

a. $63 + 24 =$ ☐

b. $65 + 29 =$ ☐

XIT NUM G3 B1 9781431500147.indb 44 2014/05/05 5:02 PM



Xana i malofo mangani?

Mubaki u dilivhara 54 wa malofo ya buraweni  na 68 yo basa  .

Xana i malofo mangani hinkwawo ka wona?

a. Kuma ntsengo eka ndzhati wa mitsengo. Kombisa tinomboro na sayizi ya mitlulo.

Hlanganisa leswi landzelaka handle ko tirhisa ndzhati wa mitsengo.
Tirhisa maendlele man'wana na man'wana lawa u ya tsakelaka.

38 + 24 =

58 + 17 =

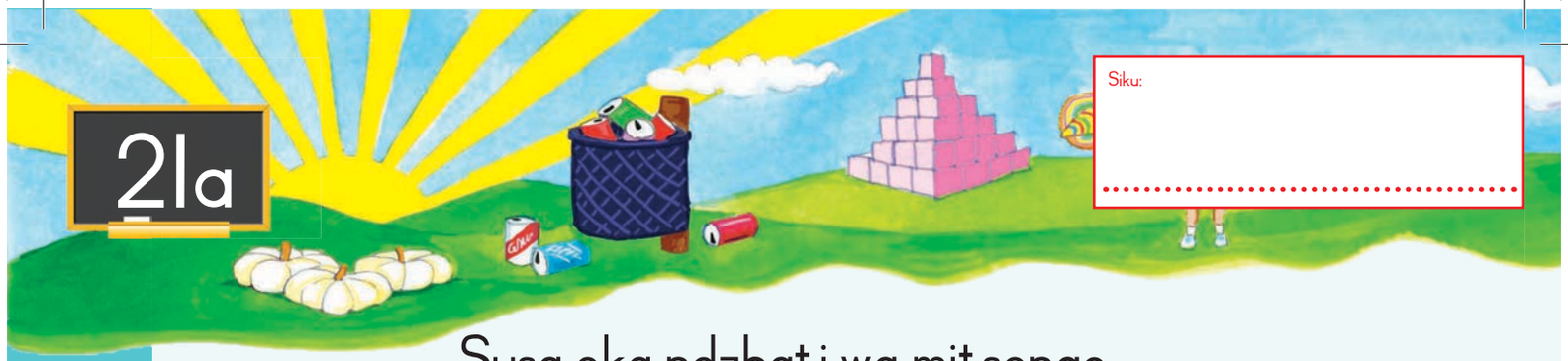
75 + 16 =

83 + 29 =

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 45 2014/05/05 5:02 PM



21a

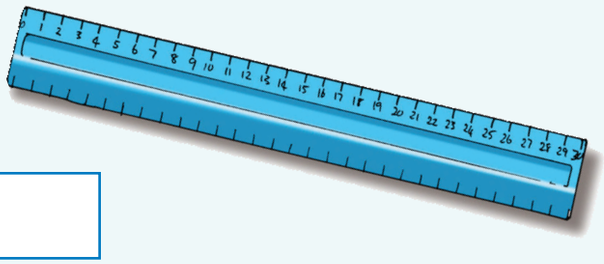
Siku:

.....

Susa eka ndzhati wa mitsengo

Kotara ya 1

Mudyondzi un'we! Rhula yin'we!



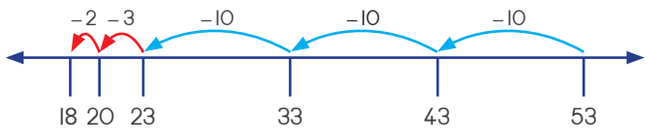
Tlilasi yi lava 53 wa tirhula. Ho va na 35 ntsena.

Xana hi lava tin'wana tingani? 53 – 35 =

Tirha na nakuloni

Hlaya leswi vadyondzi vanharhu va tirhisisaka xiswona ndzhati wa mitsengo.





Hikwalaho, ndzi ta sungula eka 53 kutani ndzi susa.
Ndzi ta susa 10, 10, 10 – leswi fikisaka eka 23. Sweswi ndzi ta susa ntlhanu, ro sungula ndzi susa 3, kutani ndzi ta eka 20. Ndzi susa 2 yin'wana kutani ndzi ta eka 18. Hikwalaho hi lava 18 wa tirhula.

= 53 – 10 – 10 – 10 – 3 – 2

= 43 – 10 – 10 – 3 – 2

= 33 – 10 – 3 – 2

= 23 – 3 – 2

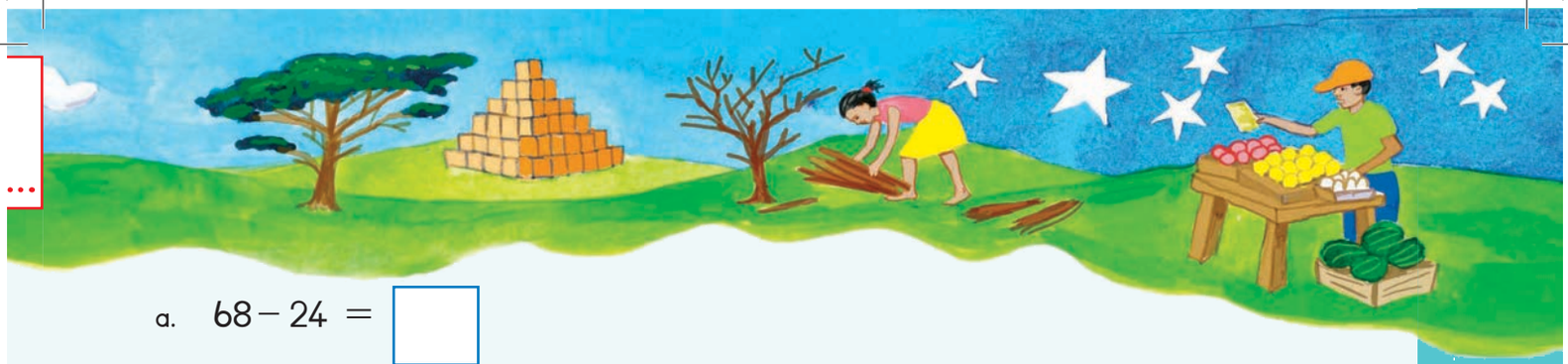
= 20 – 2

= 18



1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 46 2014/05/05 5:02 PM

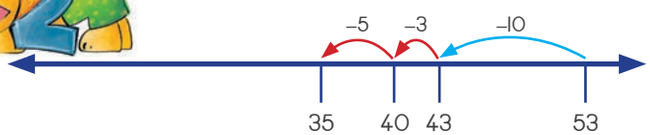


a. $68 - 24 =$ ☐

b. $74 - 38 =$ ☐

c. $92 - 87 =$ ☐





Nsuso swi vula ku kuma ku hambana exikarhi ka 53 na 35.



Ndzi ta sungula eka 53 ndzi hlayela ku ya endzhaku eka 35 ku kuma ku hambana. Loko ndzi hlayela ndzi ya endzhaku hi 10, ndzi kuma 43. Ndzi nga hlayela ndzi ya endzhaku hi 3 yin'wana ku kuma 40. Kutani ndzi hlayela ndzi ya endzhaku hi 5 yin'wana ku kuma 35. 10 hi hlanganisa na 3 hi hlanganisa na ntlhanu i 18. Hikwalaho hi lava 18 wa tirhula tin'wana.

a. $38 - 14 =$ ☐

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 47 2014/05/05 5:02 PM



21b

Siku:

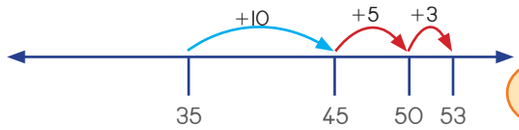
Susa eka ndzhati wa mitsengo (ku yisa emahlweni)

b. $65 - 43 =$ ☐

c. $72 - 39 =$ ☐

d. $85 - 48 =$ ☐





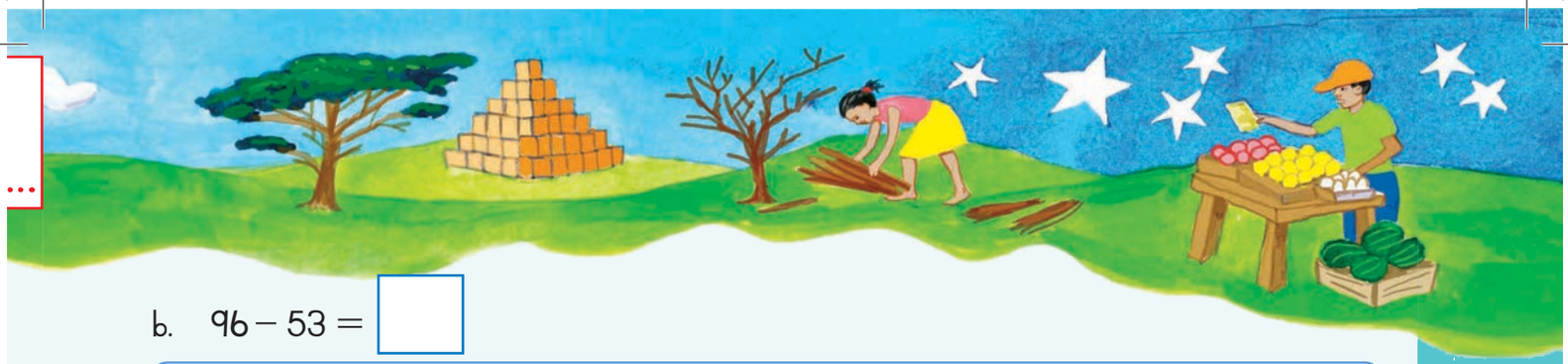
Ndzi nga sungula eka 35 kutani ndzi vona mitlulo leyi ndzi yi tekaka ku hlayela ku fika eka 53.



Ndzi nga sungula eka 35 kutani ndzi vona mitlulo leyi swi ndzi tekelaka yona ku hlayela ko fika eka 53. Khume hi hlanganisa na ntlhanu hi hlanganisa na nharhu i 18. Hi lava 18 wa tirhula tin'wana.

a. $84 - 32 =$ ☐

XIT NUM G3 B1 9781431500147.indb 48 2014/05/05 5:02 PM



b. $96 - 53 =$ ☐

c. $78 - 19 =$ ☐

d. $63 - 47 =$ ☐

Ku famba hi thekisi



Rendzo ro ya edorobeni hi thekisi ri teka 65 km.
Ku fika sweswi thekisi yi fambile 38 km.

Xana ya ha fanele ku famba mpfhuka
wo tanihi kwihi?

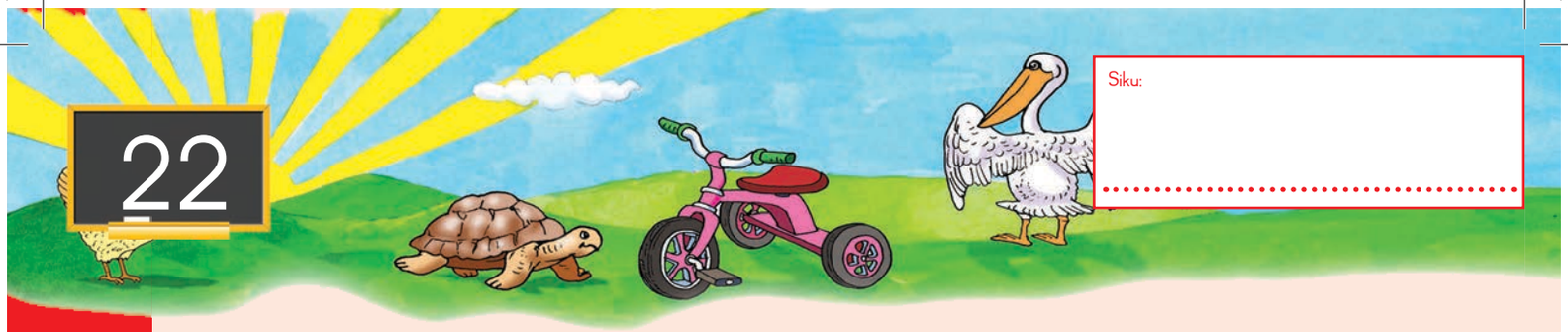
Tirhisa ndzhati wa mitsengo ku lulamisa xiphiqo lexi.

km

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 49 2014/05/05 5:02 PM



22

Siku:

I nkarhi wa xinkhubyana

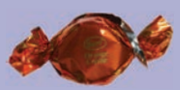


Pulani yo sungula!

Busi u kombela vanghana va yena swifaniso swa swakudya swa phati leswi va swi tsakelaka swinene. Leswi a swi hlengeleteke hi leswi. Pfuna ku swi hlawula.

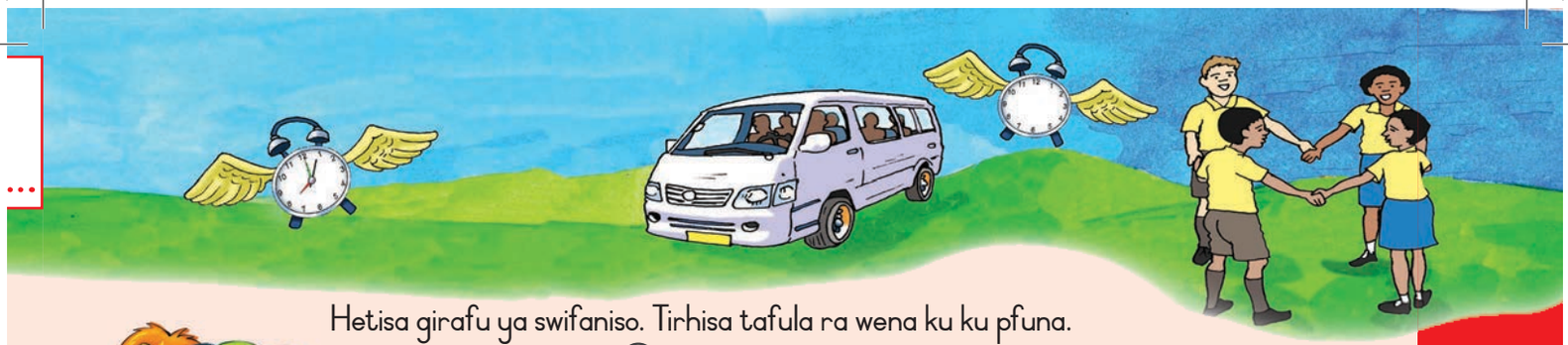


Hlayela kutani u tsala leswaku i vanghana vangani va hlawulaka muxaka wa swakudya swo karhi.

				
Nomboro				

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 50 2014/05/05 5:02 PM





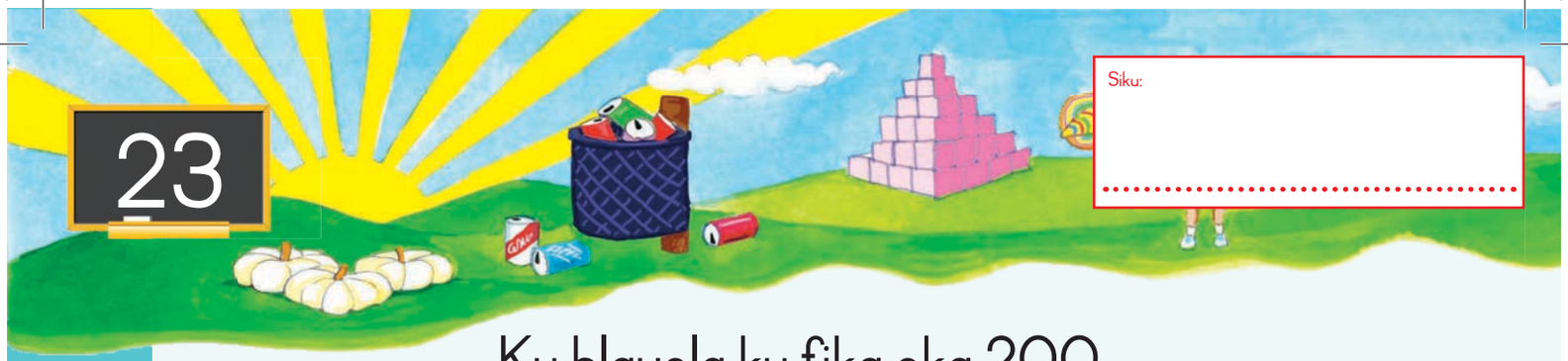
Hetisa girafu ya swifaniso. Tirhisa tafula ra wena ku ku pfuna. Dirowa xikandza xin'we (☺) eka n'wana un'wana na un'wana loyi a hlawulaka rixaka ra swakudya kumbe swa ku nwa.

☺			
☺			
☺			
☺			
☺			
☺			
☺			
☺			
☺			
☺			
			

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 51 2014/05/05 5:02 PM



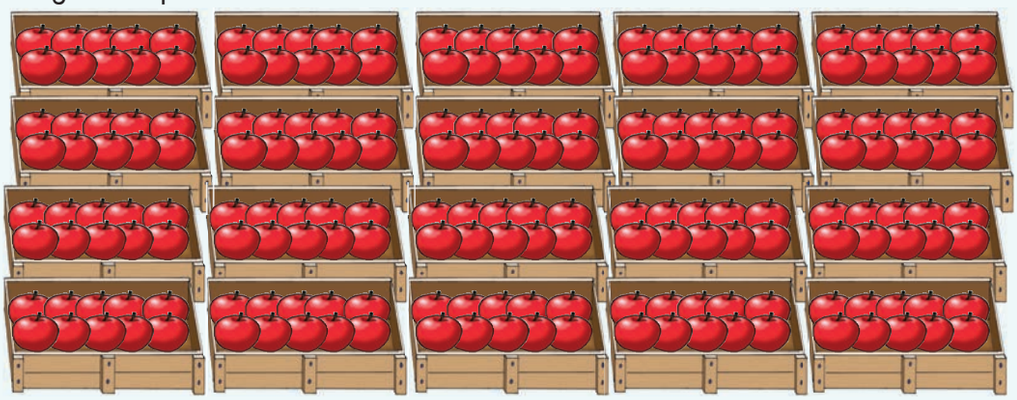
23

Siku:

Ku hlayela ku fika eka 200



Hlayela maapula



Tata tinomboro

Bokisi ri na ____ wa maapula

Rixaxa ri na ____ wa mabokisi

Rixaxa ri na ____ wa maapula

Tinxaxa ta 4 ti na ____ wa maapula



Xana hi nga paka maapula mangani eka mabokisi lama?

a.  ____

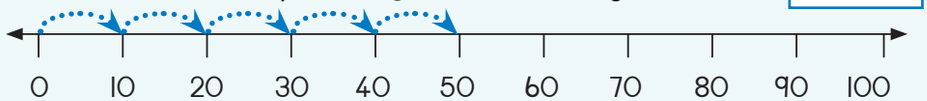
b.  ____

c.  ____

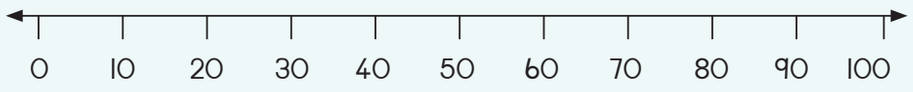


Hlayela eka ndzhati wa mitsengo.

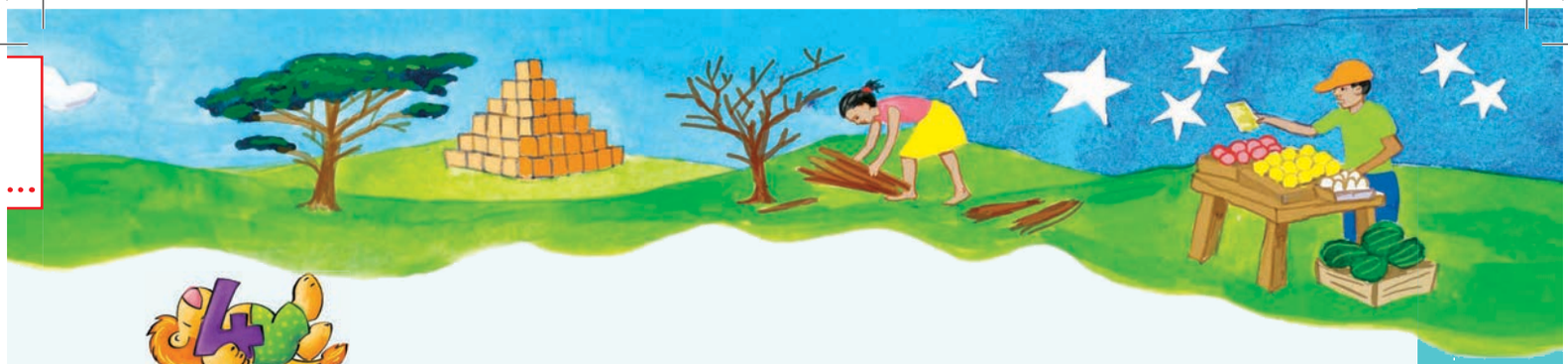
a. Xana ku ta va na maapula mangani eka mabokisi ya ntlhanu? ____



b. Xana ku ta va na maapula mangani eka mabokisi ya nkombo? ____



XIT NUM G3 B1 9781431500147.indb 52 2014/05/05 5:03 PM

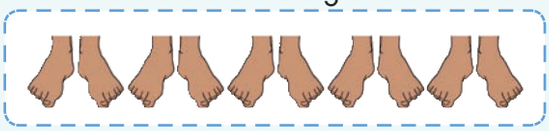


3 wa 10 wa swijumba swi endla 3 0 $3 \times 10 =$ 3 0 kumbe $10 \times 3 =$ 3 0

5 wa 10 wa swijumba swi endla ____ × ____ = ____ kumbe ____ × ____ = ____

2 wa 10 wa swijumba swi endla ____ × ____ = ____ kumbe ____ × ____ = ____

5 wa tiphere ta mikondzo.
Xana ku na swikunwana swingani hinkwaswo?



$10 + 10 + 10 + 10 + 10 =$ 5 0 $5 \times 10 =$ ____

kumbe $10 \times 5 =$ ____

Sweswi endla leti.

4 wa tiphere ta mikondzo.

____ = ____ ____ × ____ = ____ kumbe ____ × ____ = ____

3 wa tiphere ta mikondzo

____ = ____ ____ × ____ = ____ kumbe ____ × ____ = ____

A hi hlayeleni hi vu-10

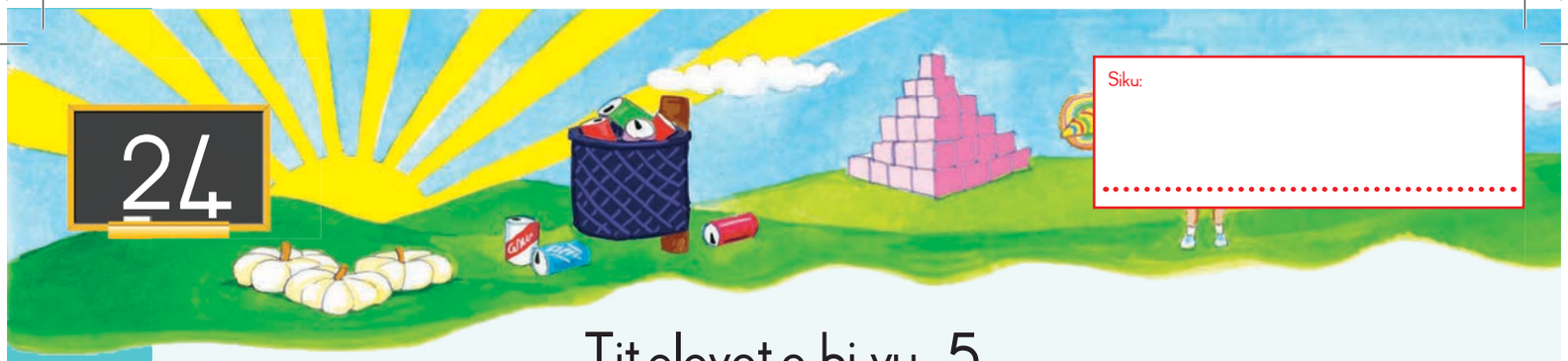
10, 20, 30, 40, 50, ____, ____, ____, ____, ____,

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 53 2014/05/05 5:03 PM



24

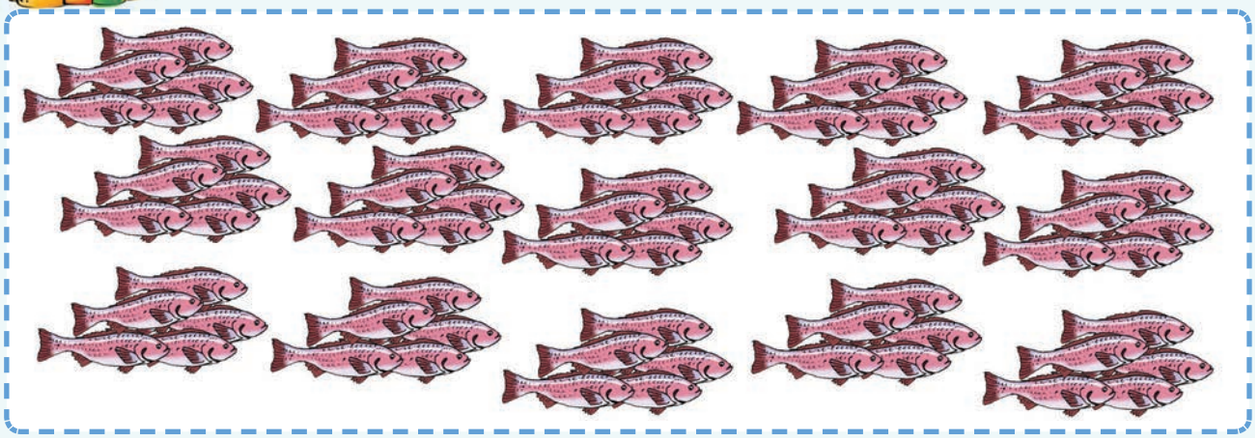
Siku:

Kotara ya 1

Titolovete hi vu-5



Xana ku na tinhlampfi tingani? Pimanyisa



Sweswi hlayela tinhlampfi. Kuma ntsengo.



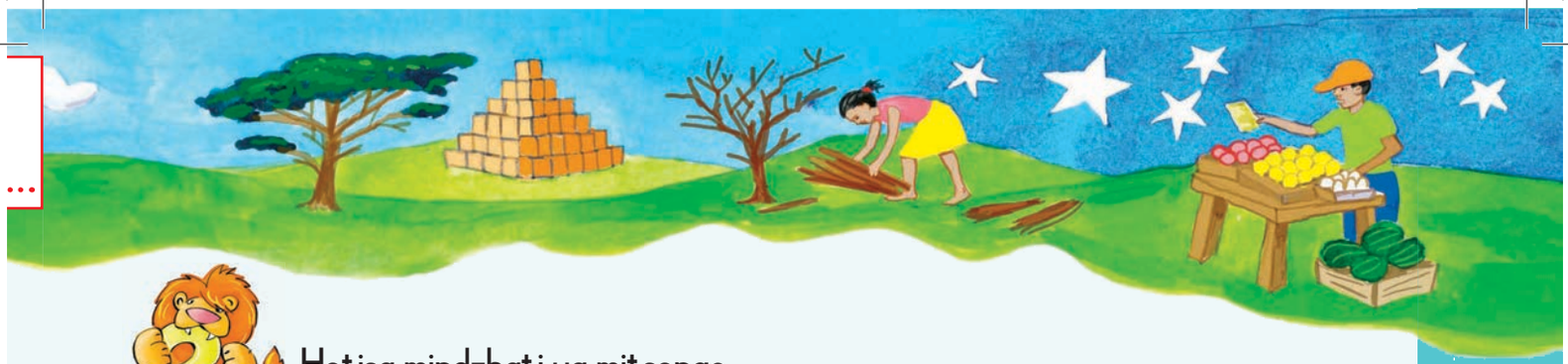
Hlayela hi vu-5

Kuma nhlayo hinkwayo ya mandza ya tinhlampfi. Tsala xivulwa xa tinomboro xa + na X. Hi ku endlele yo sungula.

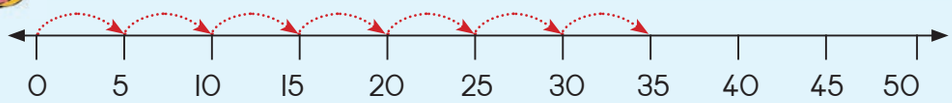
Tinhlampfi na mandza	Xana ku na mandza mangani hinkwawo ka wona?	
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 2 wa mandza	$2 + 2 + 2 + 2 + 2 = 10$	$5 \times 2 = 10$
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 10 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 4 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 3 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 6 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 8 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 5 wa mandza		

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 54 2014/05/05 5:03 PM

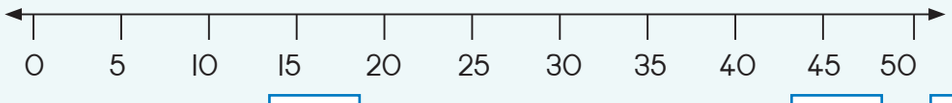


Hetisa mindzhati ya mitsengo



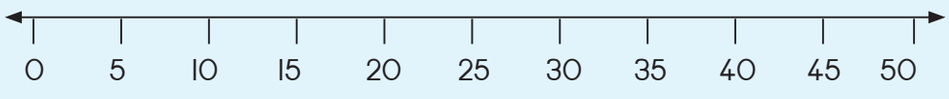
5 + 5 + 5 + 5 + 5 + 5 + 5 = 35 kumbe 7 × 5 = 35

a.



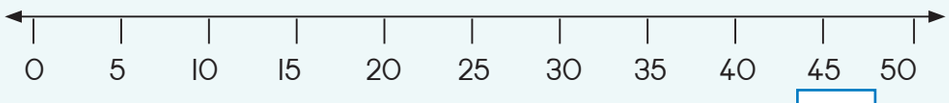
5 + 5 + 5 + 5 = ☐ kumbe ☐ × ☐ = ☐

b.



+ + + + + + + + = ☐ kumbe ☐ × ☐ = ☐

c.



_ + _ + _ + _ + _ + _ + _ + _ + _ + _ = ☐ kumbe 10 × 5 = 50

Ku phasa tinhlampfi

Sipho u phasa tinhlampfi ta le xikarhi ka 40 na 50. U tihlayela hi vu-5 naswona u na 1 leyi saleke.
U ti hlayela hi vu-5 naswona u na 2 leti saleke. Xana Sipho u phase tinhlampfi tingani?

☐

☐

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 55 2014/05/05 5:03 PM



25a

Siku: .....

Kotara ya I

Hlayela hi vu-2



Hlayela masokisi



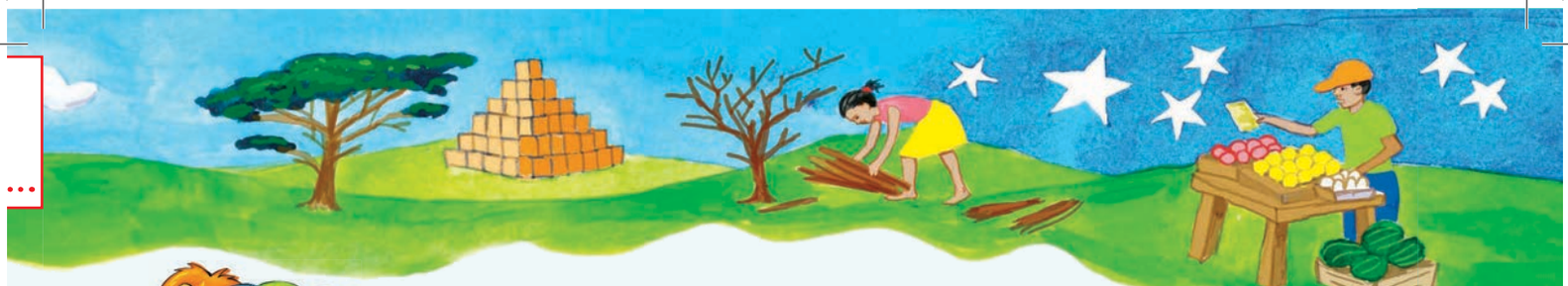
a. Xana ku na tiphere tingani ta masokisi? _____

b. Xana ku na masokisi mangani? _____

c. Xana ku na masokisi lama saleke? _____

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 56 2014/05/05 5:03 PM





Ku hlayela tiphere ta masokisi

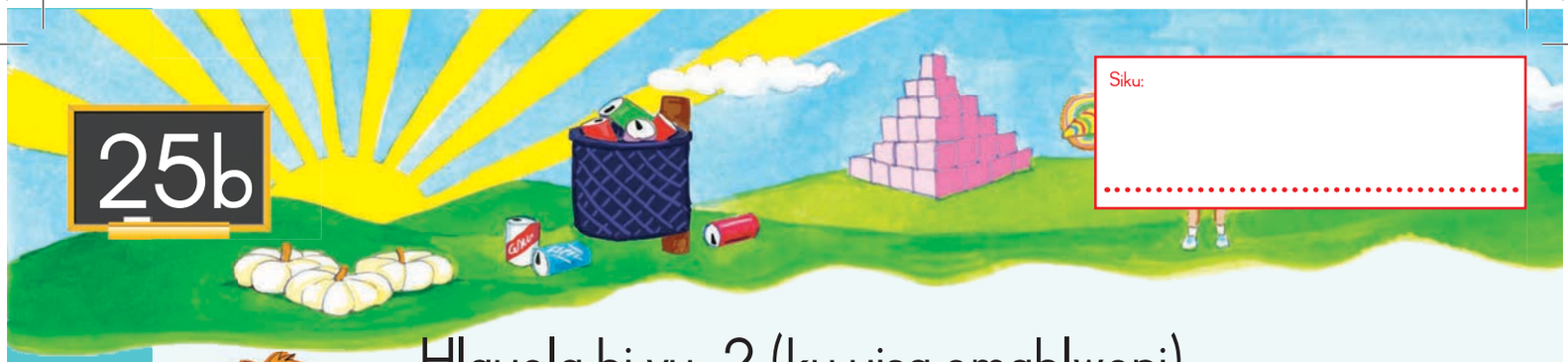
Tsala leswaku ku na tiphere tingani ta masokisi no vula loko ku ri na leti salaka.

Masokisi	Nhlayo ya tiphere	Nhlayo ya masokisi	Masokisi ya rin'werin'we lama saleke
			
			
			
			
			



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 57 2014/05/05 5:03 PM



25b

Siku:

Kotara ya 1

Hlayela hi vu-2 (ku yisa emahlweni)



Ku vumba tiphere

Tsala tinhlayo-ndzingano na tinhlayo-fadzenga ku suka eka 1 – 60.

a. Tsala tinhlayo-ndzingano ku suka eka 1 – 60.

2, 4, 6, _____

_____

_____

b. Tsala tinhlayo-fadzenga ku suka eka 1 – 60.

3, 5, 7, _____

_____

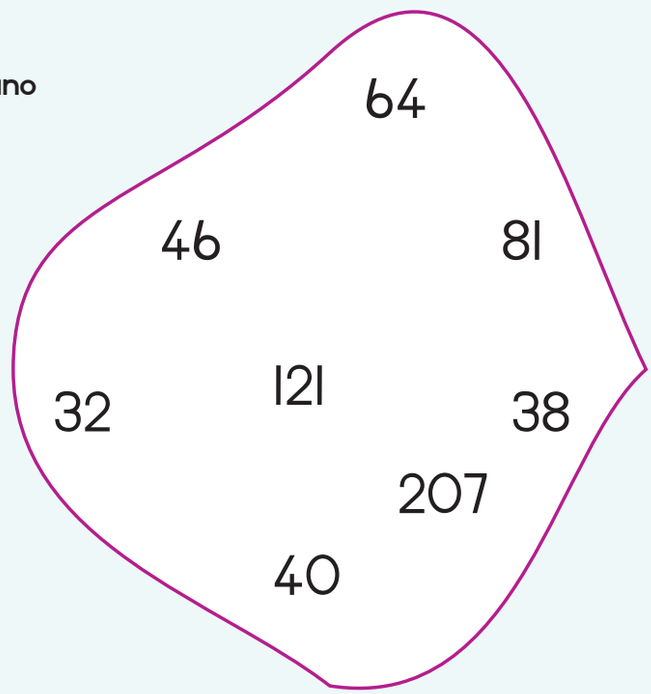
_____



Fadzenga na ndzingano

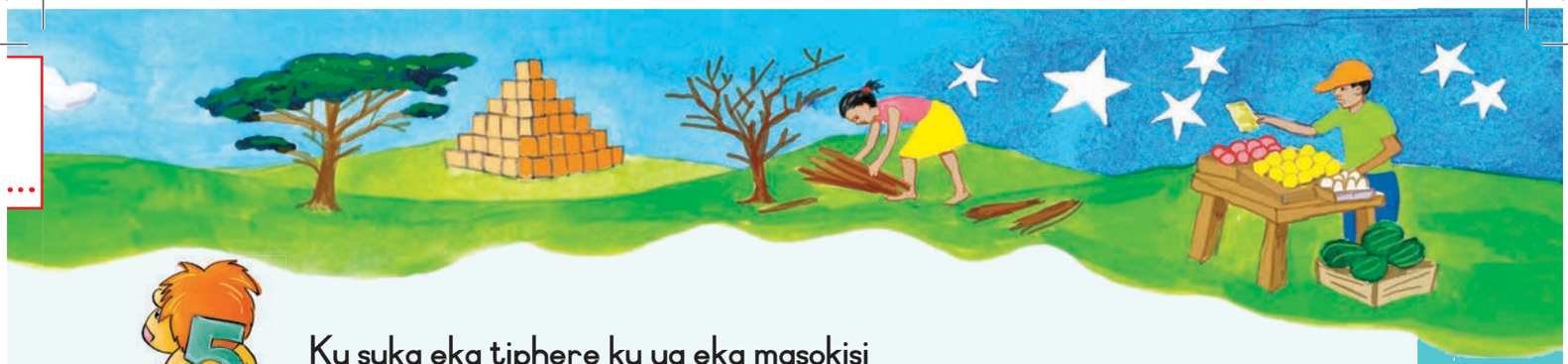
Dirowa xirhendzevutana eka tinhlayo-ndzingano.

Dirowa xikwere eka tinhlayo-fadzenga.



1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 58 2014/05/05 5:03 PM



5 Ku suka eka tiphere ku ya eka masokisi

Xikombiso:

2 wa masokisi = 1 phere 

$2 \times 1 = 2$

20 wa masokisi = 10 wa tiphere

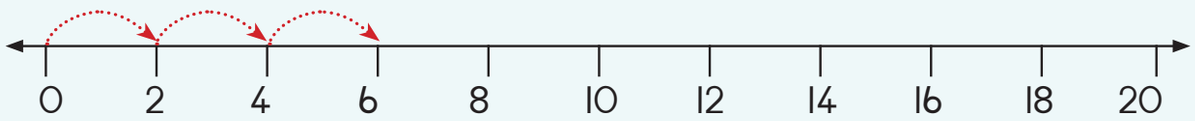
$2 \times 10 = 20$

a. Tsala leswaku i masokisi mangani.

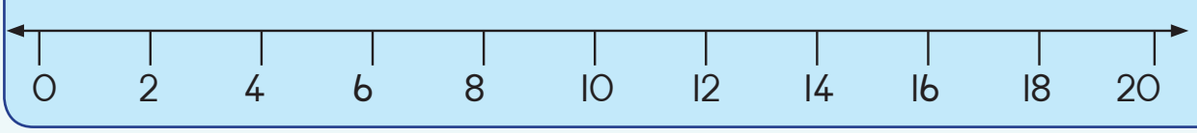
Ehleketa hi vu-2	Xivulwa xa tinomboro
1 phere = 2 wa masokisi	2 × 1 = 2
2 wa tiphere = _____ wa masokisi	2 × 2 =
4 wa tiphere = _____ wa masokisi	
8 wa tiphere = _____ wa masokisi	
9 wa tiphere = _____ wa masokisi	

b. Kombisa nhlayo eka ndzhati wa mitsengo kutani u hetisa.

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



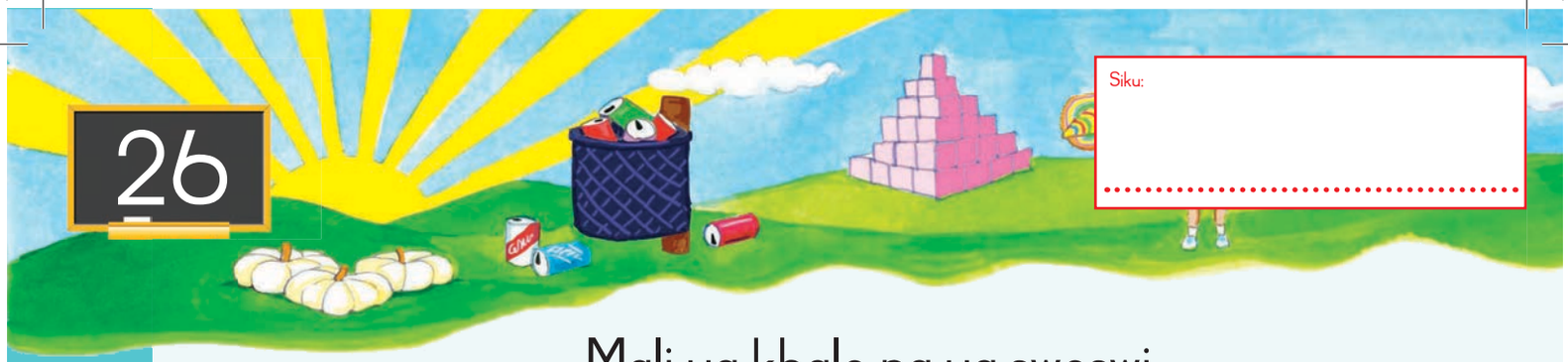
$2 + 2 + 2 + 2 + 2 + 2 + 2 =$ ☐ kumbe ☐ × ☐ = ☐





11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 59 2014/05/05 5:03 PM



26

Siku:

Kotara ya 1

Mali ya khale na ya sweswi



Xitori xa mali ya hina

Laha Afrika-Dzonga hi tirhisa tirhandi na tisente tanihi mali ya hina.
Hi sungule ku tirhisa tirhandi na tisente hi lembe ra 1961.

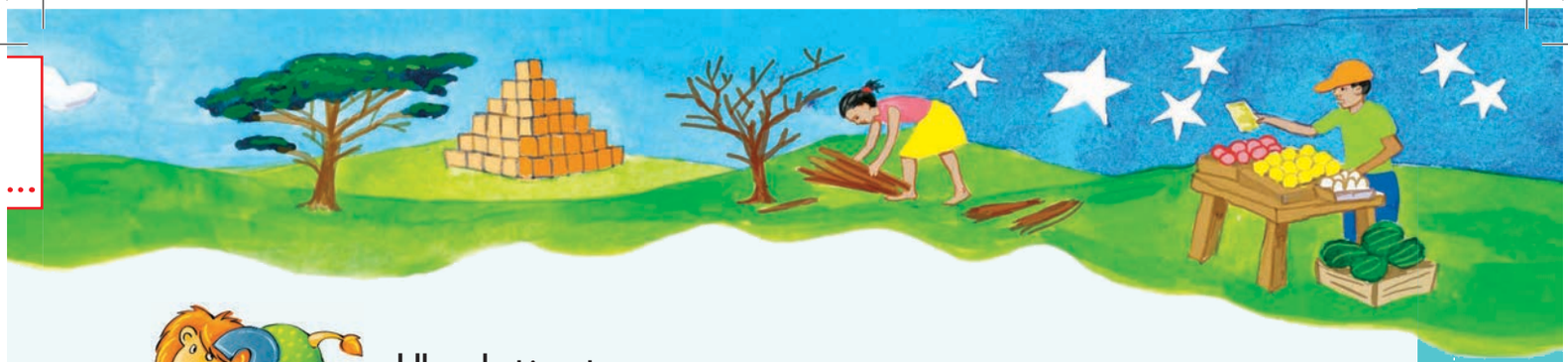
Eka masiku lawaya khoyini ya 1 sente a yi ri leyitsongo swinene, ivi ku ta 2 wa tisente kandzhaku ku ta 5 wa tisente.





1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 60 2014/05/05 5:03 PM



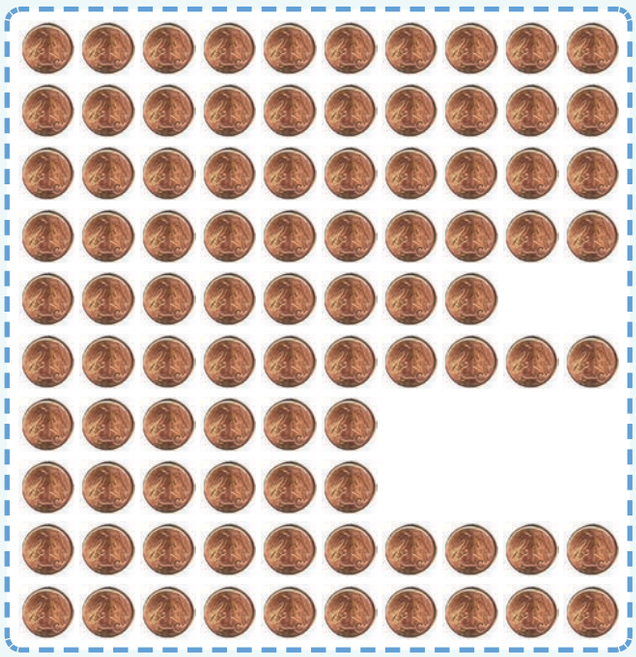


Hlayela tisente

Hlayela tisente.
Xana ku na tisente tingani?

Xana ku laveka tin'wana tingani ku endla R1,00?

Ti dirowe endzeni ka buloko.





Xana i tisente tingani?

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



Xana mihandzu yi durha mali muni?

2  ya durha R4,00.

U nga kuma mabanana mangani hi R20,00?

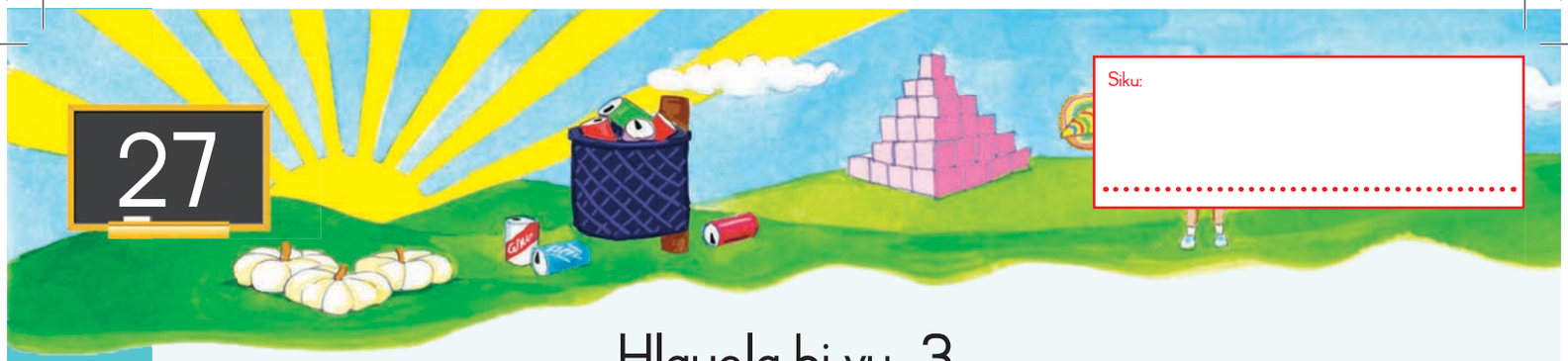
2  ya durha R2,00.

Eka R9,00 ku kumeka maapula mangani?



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 61 2014/05/05 5:03 PM



27

Siku:

Kotara ya I

Hlayela hi vu-3



Mavhilwa hi vu-3



I thirayisekele yi na _____ wa mavhilwa.

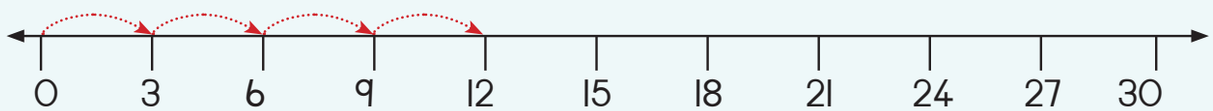


5 wa tithirayisekele ti na _____ wa mavhilwa.	$3 + 3 + 3 + 3 + 3 = 5 \times 3 =$ _____
2 wa tithirayisekele ti na _____ wa mavhilwa.	$3 + 3 = 2 \times 3 =$ _____
4 wa tithirayisekele ti na _____ wa mavhilwa.	
6 wa tithirayisekele ti na _____ wa mavhilwa.	
9 wa tithirayisekele ti na _____ wa mavhilwa.	
8 wa tithirayisekele ti na _____ wa mavhilwa.	



Mindzhati ya mitsengo

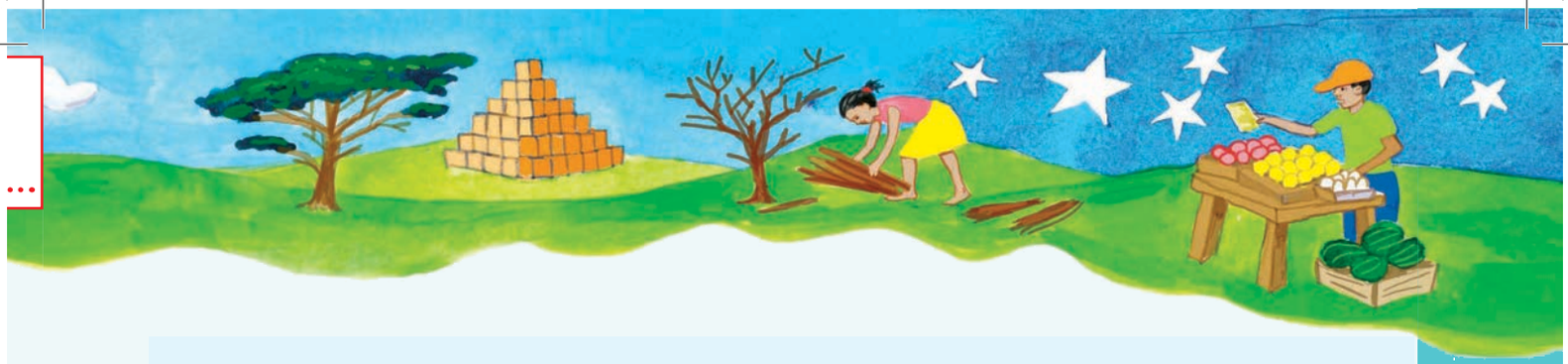
Landzelela xikombiso.



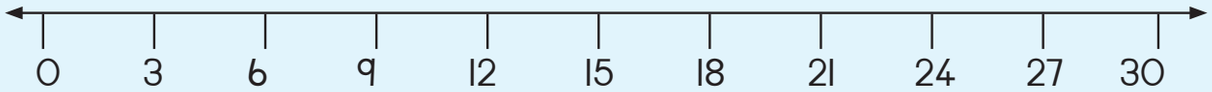
a. $3 + 3 + 3 + 3 =$ ☐ $= 4 \times 3 =$ ☐



XIT NUM G3 B1 9781431500147.indb 62 2014/05/05 5:03 PM

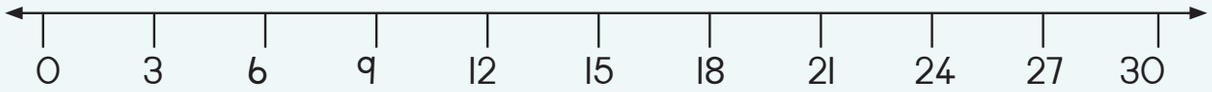


b.



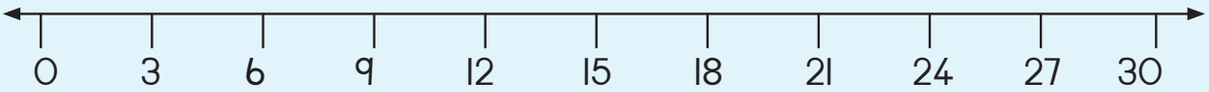
$3 + 3 + 3 + 3 + 3 =$ ☐ $=$ ☐ $\times$ ☐ $=$ ☐

c.



_____ $=$ ☐ $= 6 \times 3 =$ ☐

d.



_____ $=$ ☐ $= 10 \times 3 =$ ☐



Tibayisikiri na tithirayisekele





Evhengeleni ra swikanyakanya Busi u hlayela mavhilwa ya tibayisikiri na tithirayisekele.

Ku na 14 wa mavhilwa hinkwawo ka wona.

Xana ku na tibayisikiri tingani? _____
Xana ku na tithirayisekele tingani? _____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 63 2014/05/05 5:03 PM



28

Siku:

Xana i yini xi taka hi vu-4?



Milenge ya mune

Mintiyiso yin'wana ya nomboro ya 4...
4 + 4 = 8; 2 × 4 = 8



Milenge ya homu yi ta hi vu-4.

Xana i yini xin'wana xi taka hi vumune? _____



Hlayela milenge

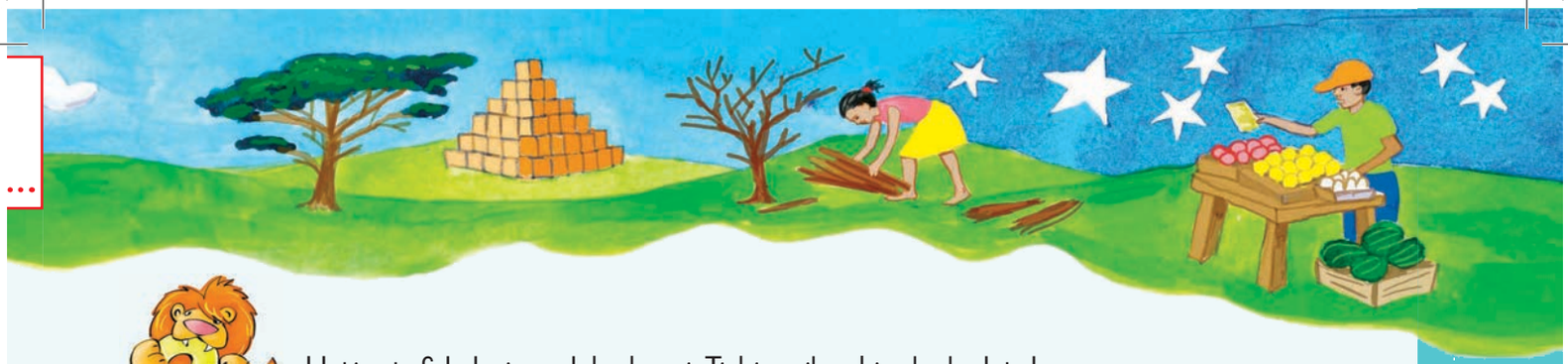
Byelanani tinhlamulo.
Hlamusela leswi u swi endleke.

Tirhisa leswi u swi tivaka mayelana na vu-4 ku hlamula swivutiso leswi.

1 homu  4 wa milenge	2 wa tihomu  8 wa milenge
3 wa tihomu  ____ wa milenge	4 wa tihomu  ____ wa milenge
5 wa tihomu  ____ wa milenge	6 wa tihomu  ____ wa milenge
7 wa tihomu  ____ wa milenge	8 wa tihomu  ____ wa milenge
9 wa tihomu  ____ wa milenge	10 wa tihomu  ____ wa milenge

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 64 2014/05/05 5:03 PM



Hetisa tafula leri nga laha hansi. Tirhisa xikombiso ku ku letela.

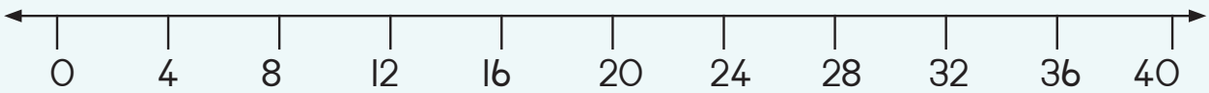
3 wa tihomu ti na _____ wa milenge.	$4 + 4 + 4 = 4 \times 3 =$ 12
5 wa tihomu ti na _____ wa milenge.	
4 wa tihomu ti na _____ wa milenge.	
7 wa tihomu ti na _____ wa milenge.	
8 wa tihomu ti na _____ wa milenge.	



Mindzhati ya mitsengo

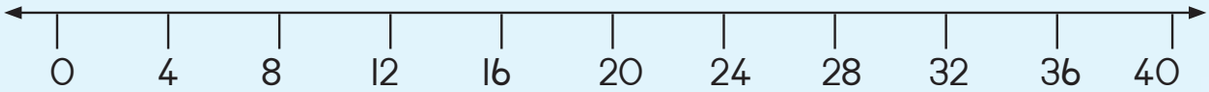
Kombisa nhlayo yo andzisa eka ndzhati wa mitsengo kutani u hetisa.

a.



_____ = ☐ = $5 \times 4 =$ ☐

b.

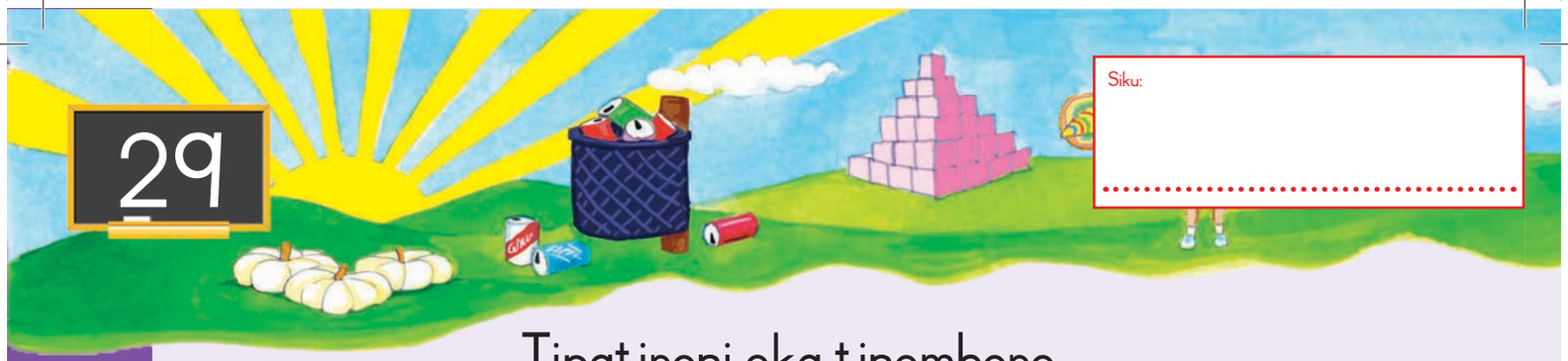


_____ = ☐ = $9 \times 4 =$ ☐



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 65 2014/05/05 5:03 PM



29

Siku:

Kotara ya 1

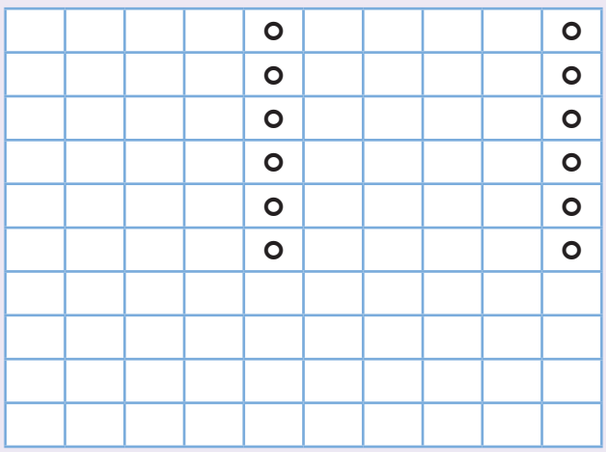
Tipatironi eka tinomboro



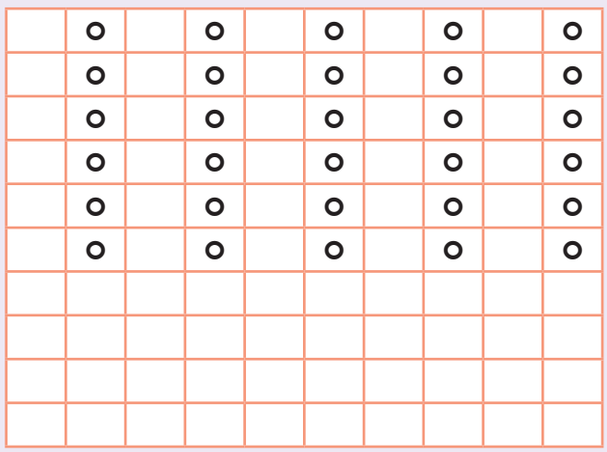
Tipatironi ta giridi

Xana swirhendzevutana eka giridi yin'wana ya 100 swi kombisa patironi yihi ya tinomboro?
Dirowa swirhendzevutana swin'wana ku hetisa patironi yin'wana na yin'wana.
Tsala vito ra patironi yin'wana na yin'wana.

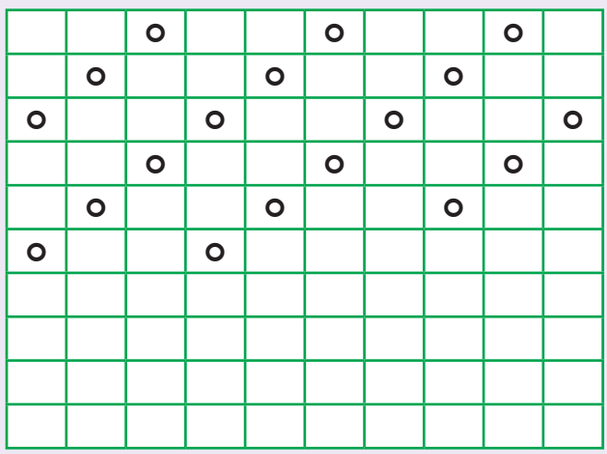
a. Patironi: _____



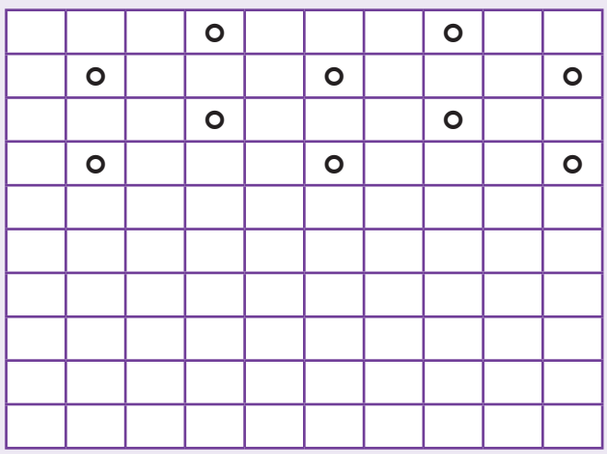
b. Patironi: _____



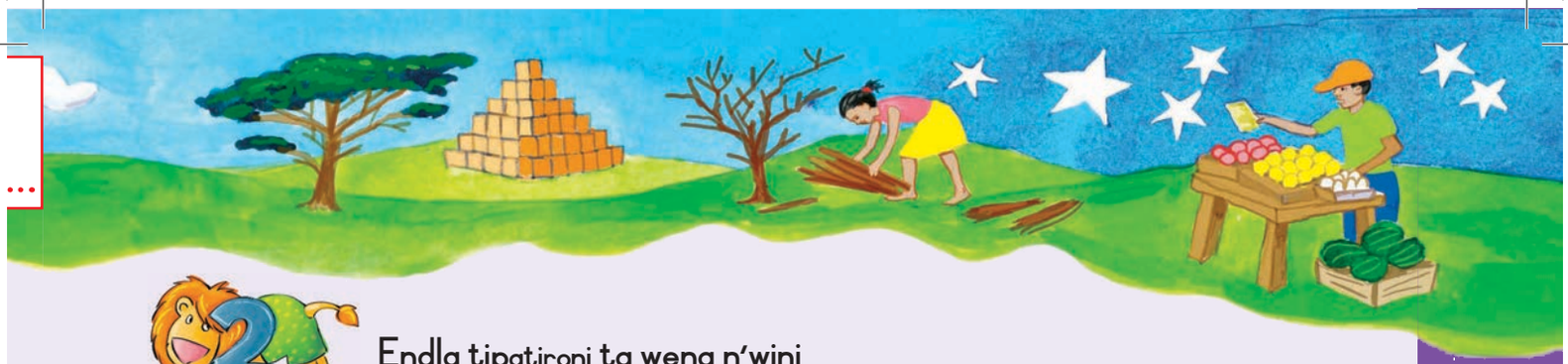
c. Patironi: _____



d. Patironi: _____



XIT NUM G3 B1 9781431500147.indb 66 2014/05/05 5:03 PM

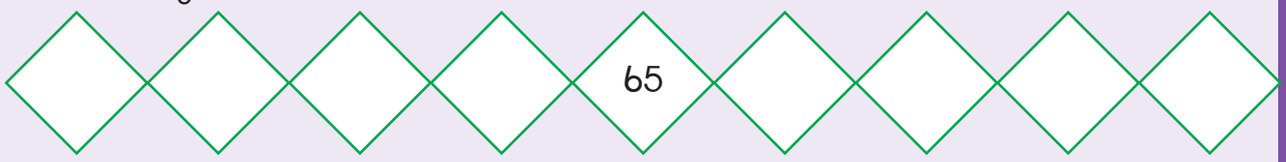


Endla tipatironi ta wena n'wini

a. Eka patironi leyi ya tinomboro, tinomboro hinkwato i ta ndzingano. Xana tinomboro letin'wana hi tihi? Ti nghenise.



b. Eka patironi leyi ya tinomboro, tinomboro hinkwato i ta fadzenga. Xana tinomboro letin'wana ti nga va tihi? Tinghenise.





Xana ti wela kwihi?

48	32	12	36	40	84	45
90	80	15	24	72	150	75

Patironi ya vu-3 na vu-4	Patironi ya vu-3 na vu-5	Patironi ya vu-4 na vu-5
xik. 48		



Elwandle

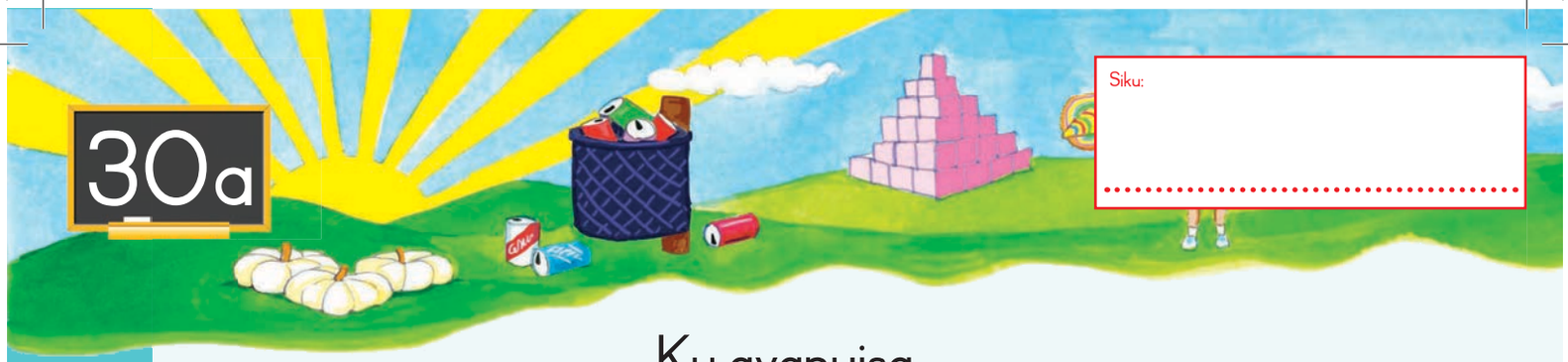


Thembi u hlengeleta tinkatla ta lwandle ta le xikarhi ka 60 na 70. U ti hlayela hi vu-3, kutani ku na I leyi saleke. Tinomboro leti nga kumekaka i: 61, _____, _____, 70. Loko a ti hlayela hi vu-5, u na 4 leti saleke. Tinomboro leti nga kumekaka i: _____, _____. Xana Thembi u na tinkatla tingani? _____.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 67 2014/05/05 5:03 PM



30a

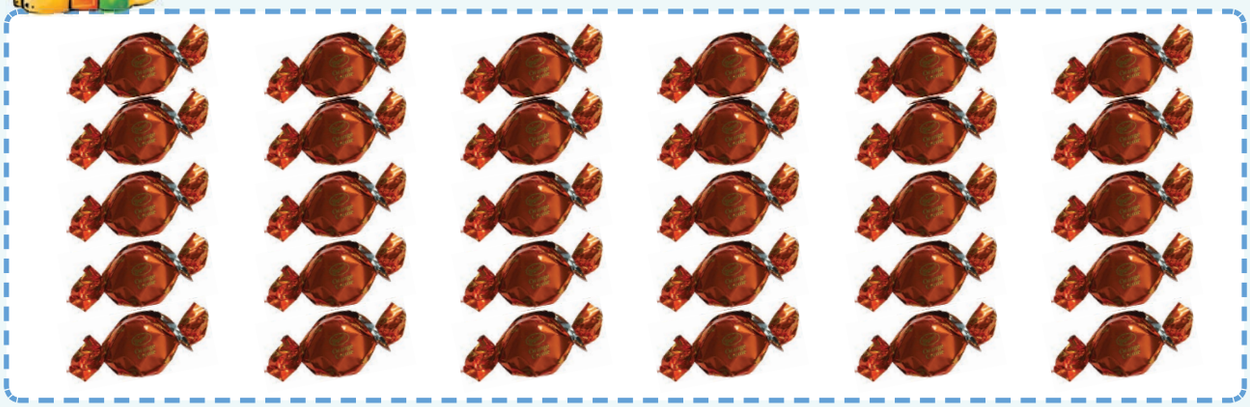
Siku:

Kotara ya I

Ku avanyisa



Ava swiwitsi



a. Ava 30 wa swiwitsi exikarhi ka 2 wa vana.



Hi nga yi tsala tanihi

30 ÷ 2 = 15

b. Ava swiwitsi exikarhi ka 3 wa vana.



÷ =

c. Avanyisa swiwitsi exikarhi ka 5 wa vana.

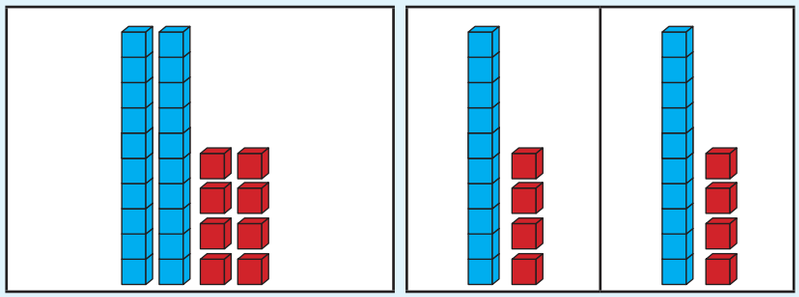


÷ =

XIT NUM G3 B1 9781431500147.indb 68 2014/05/05 5:03 PM



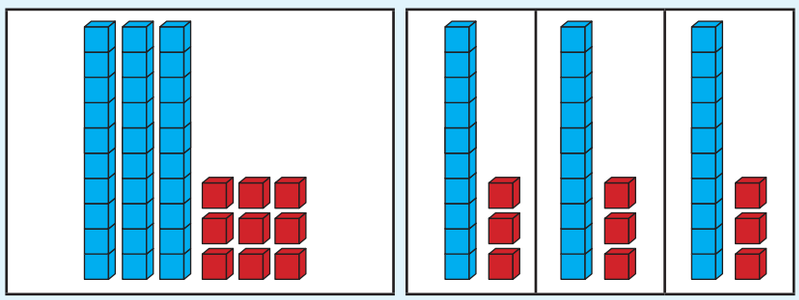
Hi nga tirhisa tibuloko ta tinomboro ku kota ku avanyisa.



2 8 ÷ 2 = 1 4

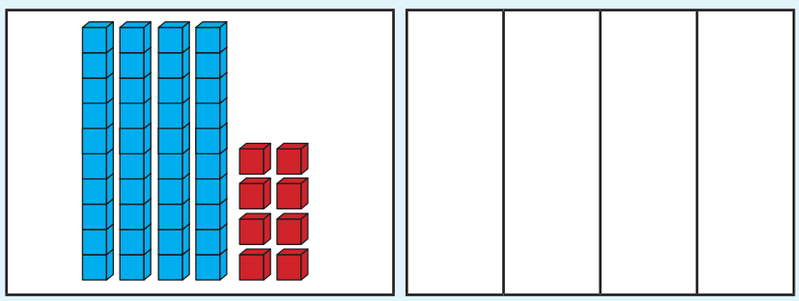
Sweswi endla leti.

a.



÷ 3 =

b.

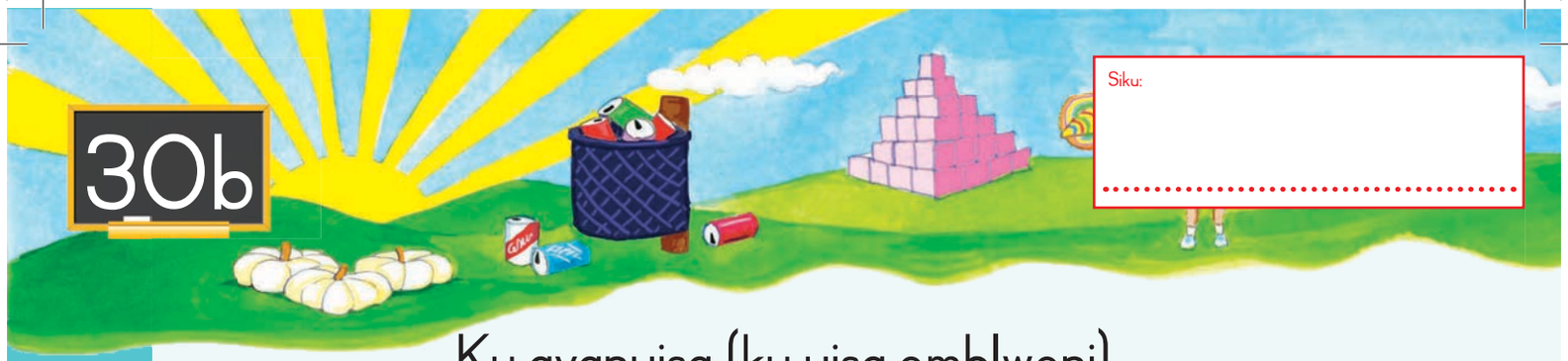


÷ 4 =



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 69 2014/05/05 5:03 PM



Siku:

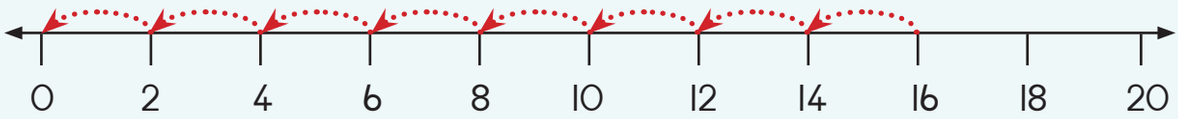
30b

Ku avanyisa (ku yisa emhlweni)



Tirhisa mindzhati ya mitsengo ku tsala xivulwa xa tinomboro xa ku susa no avanyisa.

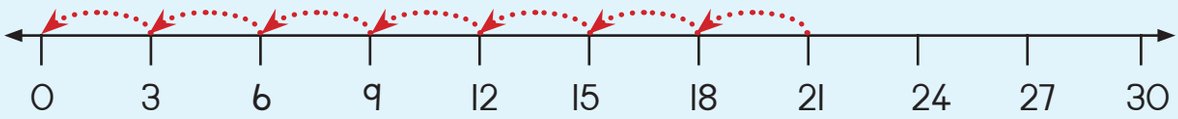
Xikombiso:



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

16 ÷ 2 = 8

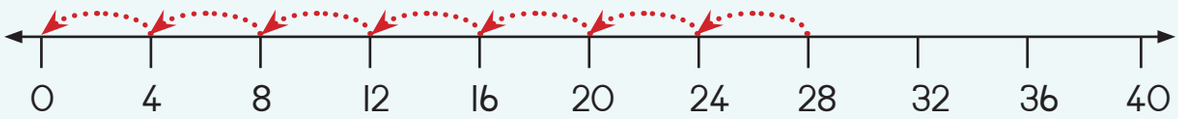
a.



21 − _____ = _____

□ ÷ □ =

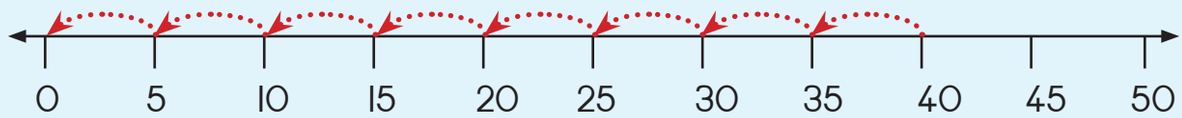
b.



28 − _____ = _____

□ ÷ □ =

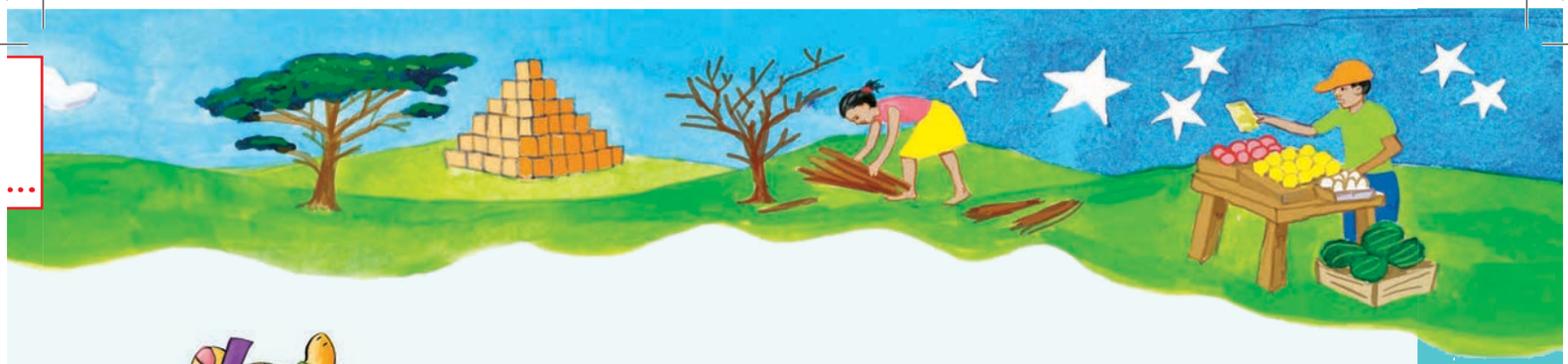
c.



___ − _____ = _____

□ ÷ □ =

XIT NUM G3 B1 9781431500147.indb 70 2014/05/05 5:03 PM



4 Dirowa ndzhati wa mitsengo u kuma nhlamulo.

a. 30 ÷ 5 =

b. 22 ÷ 2 =

c. 27 ÷ 3 =

d 32 ÷ 4 =

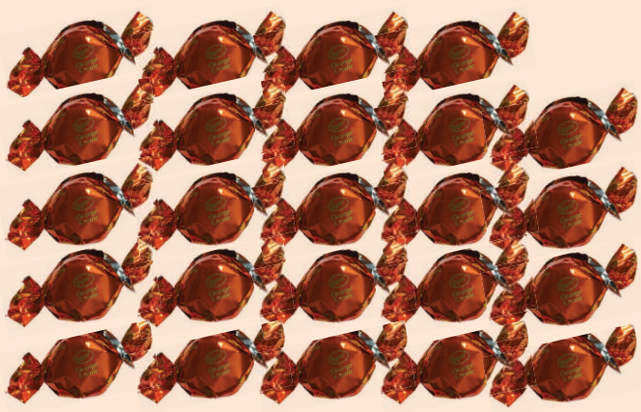
e. 25 ÷ 5 =

5

Ntlhontlho

Kombisa tindlela hinkwato to avanyisa 24 wa swiwitsi hi ku ringana exikarhi ka mintlawa mimbirhi ya vana.

Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.



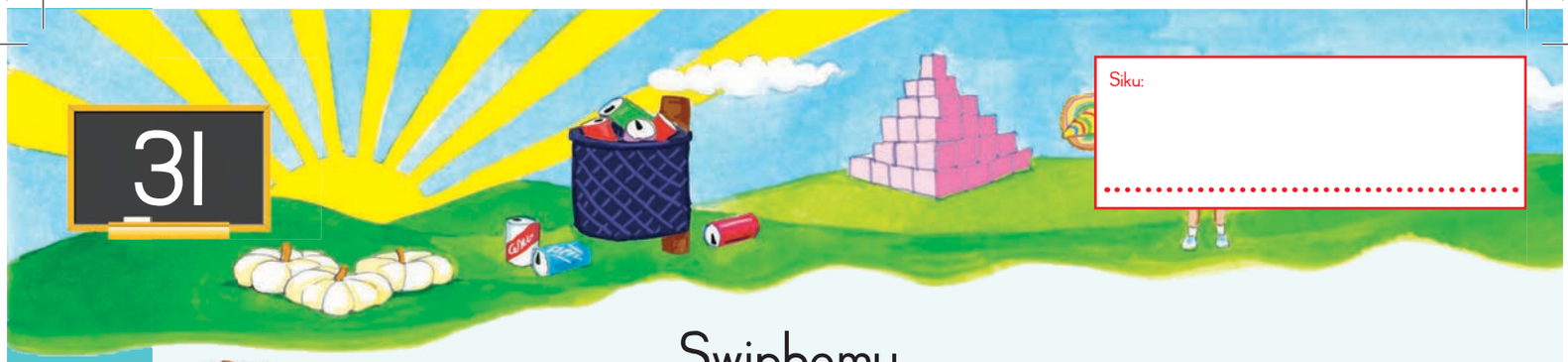
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 71 2014/05/05 5:03 PM



31

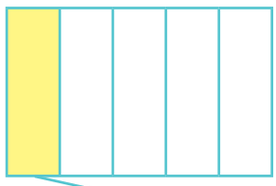
Siku:

Kotara ya 1

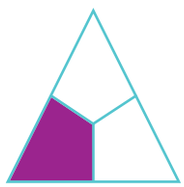
Swiphemu



Dirowa mitila ku yelanisa xivumbeko na xiphemu.



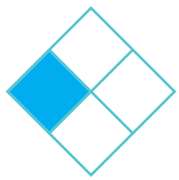
$\frac{1}{3}$ n'we-xa-nharhu



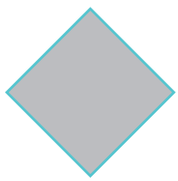
$\frac{1}{5}$ n'we-xa-ntlhanu



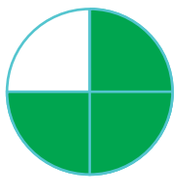
$\frac{1}{4}$ n'we-xa-mune



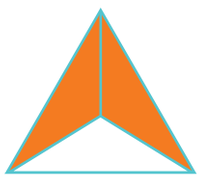
$\frac{1}{2}$ hafu yin'we



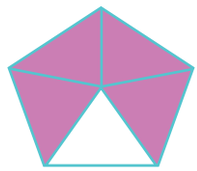
$\frac{3}{4}$ nharhu-xa-mune



$\frac{4}{5}$ mune-xa-ntlhanu

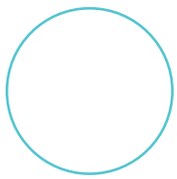


1 xiheri

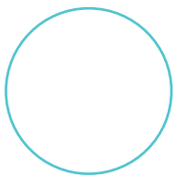


$\frac{2}{3}$ mbirhi-xa-nharhu

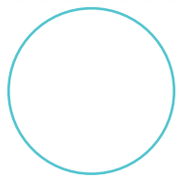
Khalara:



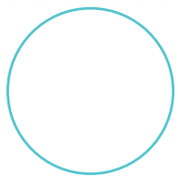
$\frac{1}{2}$ hafu yin'we



$\frac{1}{3}$ n'we-xa-nharhu



$\frac{1}{4}$ n'we-xa-mune



$\frac{1}{5}$ n'we-xa-ntlhanu

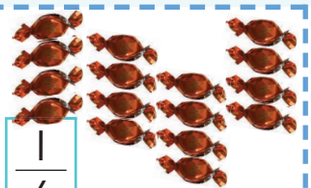
Kombisa ____ ya swiwitsi:



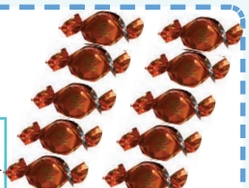
$\frac{1}{2}$ hafu yin'we



$\frac{1}{3}$ n'we-xa-nharhu



$\frac{1}{4}$ n'we-xa-mune

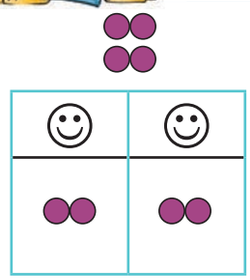
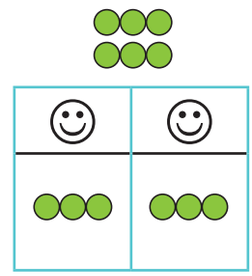
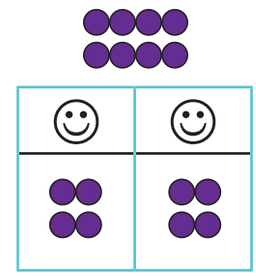
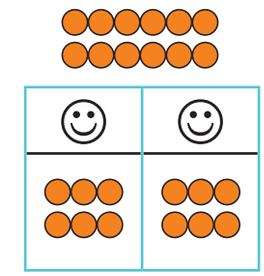


$\frac{1}{5}$ n'we-xa-ntlhanu

XIT NUM G3 B1 9781431500147.indb 72 2014/05/05 5:03 PM

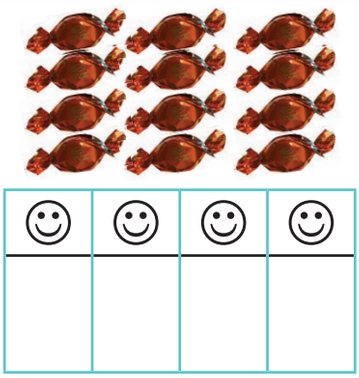
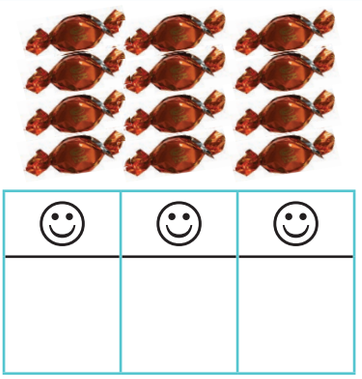


Ava swihlayelo exikarhi ka vana vambirhi.

			
Un'wana na un'wana u amukerile 2 wa swihlayelo. $\frac{1}{2}$ ya 4 wa swihlayelo i 2.	Un'wana na un'wana u amukerile ___ wa swihlayelo. ___ ya __ wa swihlayelo i ___.	Un'wana na un'wana u amukerile ___ wa swihlayelo. __ ya ___ wa swihlayelo i ___.	Un'wana na un'wana u amukerile ___ wa swihlayelo. __ ya ___ wa swihlayelo i ___.
$4 \div 2 = 2$	___ ÷ ___ = ___	___ ÷ ___ = ___	___ ÷ ___ = ___



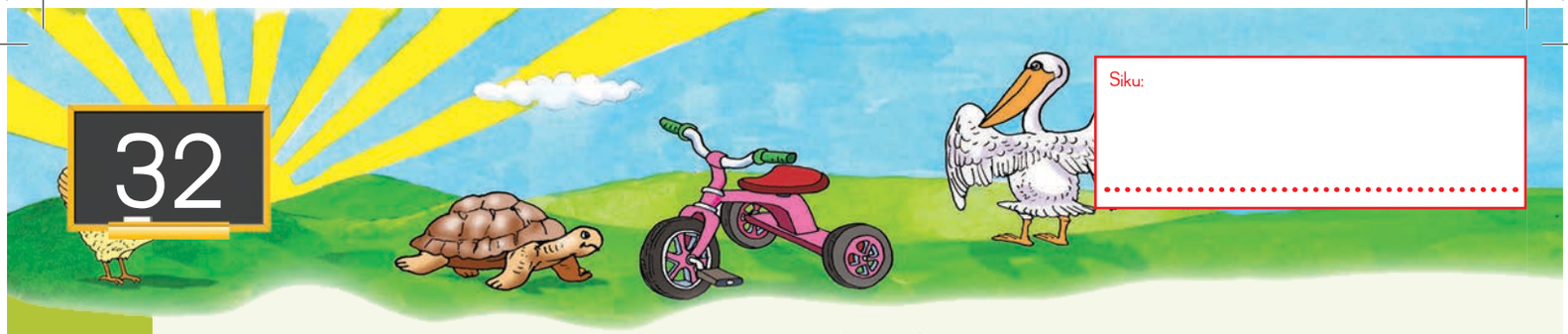
Ava swiwitsi exikarhi ka vana.

	
• kotara ya swiwitsi = 3 • n'we-xa-nharhu ya swiwitsi = ___ • mbirhi-xa-mune ya swiwitsi = ___ • mbirhi-xa-nharhu ya swiwitsi = ___	• nharhu-xa-mune ya swiwitsi = ___ • nharhu-xa-nharhu ya swiwitsi = ___ • mune-xa-mune ya swiwitsi = ___



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 73 2014/05/05 5:03 PM



32

Siku:

Kotara ya 1

Sweswi i nkarhi

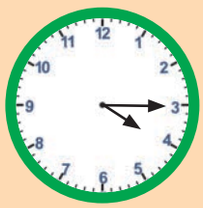


Fambelo ra wachi

Hi nga tsala nkarhi wun'we hi tindlela to hambana.

		
2:15 Kotara ku bile awara ya mbirhi	5:30 hafu ku bile awara ya ntlhanu	9:45 Kotara ku ya eka khume

Tsala leswi hi tindlela to hambana.

		
_____ _____	_____ _____	_____ _____

XIT NUM G3 B1 9781431500147.indb 74 2014/05/05 5:03 PM



Ku ya ekaya

Xana Ben u teka nkarhi wo tanihi kwihi ku fika ekaya?

	timinete
	tiawara



Ben u suka exikolweni.



Ben u fika ekaya.

Nkarhi wa haha

Nkarhi hi vu-2 ...



Xana ku na ...

timinete tingani eka 2 wa tiawara? _____

tiawara tingani eka 2 wa masiku? _____

masiku mangani eka 2 wa mavhiki? _____

tin'hweti tingani eka 2 wa malembe? _____

Xana i masiku mangani?

27 Dzivamisoko i Siku ra Ntshunxeko.

16 Khotavuxika i Siku ra Vantshwa.

Dzivamisoko

M	R	R	R	R	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					

Mudyaxihi

M	R	R	R	R	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		

Khotavuxika

M	R	R	R	R	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

a. Ku suka eka Siku ra Ntshunxeko ku fika eka Siku ra Vantshwa ku na ___ wa tin'hweti to helela, _____ wa mavhiki yo helela na masiku.

b. Xana i mavhiki mangani yo helela hinkwawo ka wona? _____. Xana i masiku mangani ma nga sala? _____. Xana i masiku mangani hinkwawo ka wona?_____.

c. Siku ra Lebo ra ku velekiwa i 7 wa masiku ku nga si fika Siku ra Ntshunxeko. Siku ra Musa ra ku velekiwa i masiku mambirhi endzhaku ka Siku ra Vantshwa. Xana i mani lonkulu? ____ Hi masiku mangani? _____

Kambisisa. Ringanisa. Lulamisa.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 75 2014/05/05 5:03 PM



33

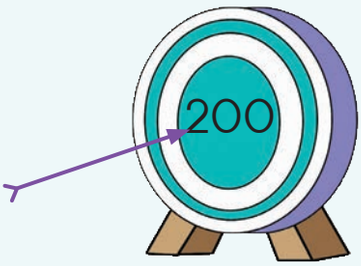
Siku:

Kotara ya 2

Thagete ya 200



Ku hlayela tinomboro



Hlayela no vula tinomboro hinkwato ku suka eka 101 ku fika eka 200. Kombetela loko u ri karhi u hlayela u ya emahlweni.



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



Tsala tinomboro

a. Tsala nomboro leyi siyiweke eka xikwere xin'wana na xin'wana xa wasi.

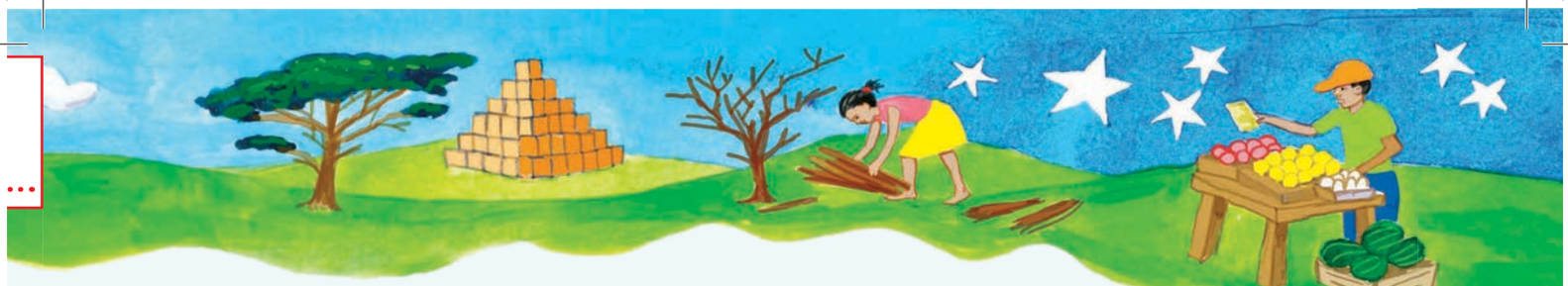
b. Tsala tinomboro letin'wana hinkwato.

c. Tsala 10 ya tinomboro leti landzelaka endzhaku ka 200.

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

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 76 2014/05/05 5:03 PM



Tsala tinomboro leti siyiweke.

a.

200		180			
					110
50					
				0	

b.

87		107	
167			
		207	
			237

Hetisa

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

Tsala tinomboro ku suka eka leyitsongo swinene ku ya eka leyikulu swinene.

_____

_____

_____

_____

_____

Ku hlayela ku suka eka 100

Kuma leswi u faneleke ku va na swona ku kota ku ya eka nomboro leyi landzelaka.

Sungula: 100 → +25 → 125 → ____ → 129 → ____ → 138 → ____ → 145 → ____ → 151 → ____ → 157 → ____ → 168 ← Heta

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 77 2014/05/05 5:03 PM

34

Siku:

Ku tirha hi mintlawa ya tinomboro



Ku paka makhandhlela

Manana Nkosi u tirha efemeni ya makhandhlela.
Loko makhandhlela ya lulamile, u ya pakisa xileswi erhakeni.



Xana ku na makhandhlela mangani ebokisini rin'wana na rin'wana? _____

Xana ku na mabokisi mangani eka rhaka yin'wana na yin'wana? _____

Ku na makhandhlela mangani eka rhaka yin'wana na yin'wana? _____

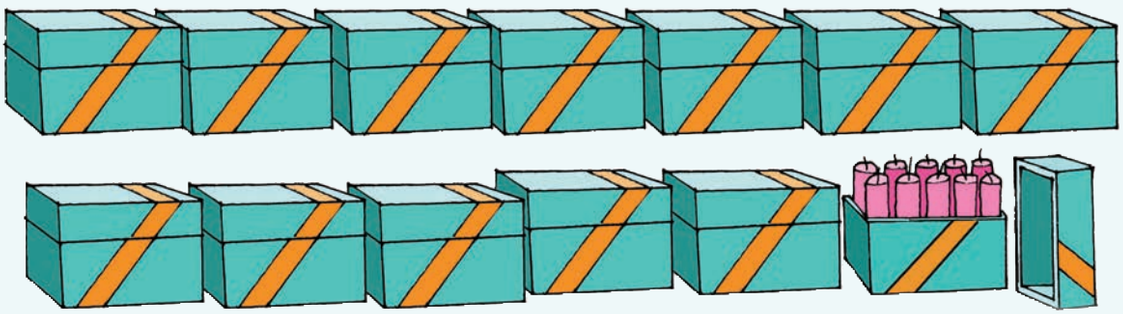
1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 78 2014/05/05 5:03 PM



Mabokisi ya makhandhlela

Manana Nkosi u pfala mabokisi.



a. Hlayela mabokisi hinkwawo.

Xana i mangani? _____
Xana ku laveka mabokisi man'wana mangani? _____
Xana ku laveka mabokisi man'wana mangani ku fikelela 200 ya makhandhlela? ____

b. Xana ku na makhandhlela mangani eka:

2 wa mabokisi, _____ ya ma	4 wa mabokisi, _____ ya ma
5 wa mabokisi, _____ ya ma	3 wa mabokisi, _____ ya ma
6 wa mabokisi, _____ ya ma	7 wa mabokisi, _____ ya ma

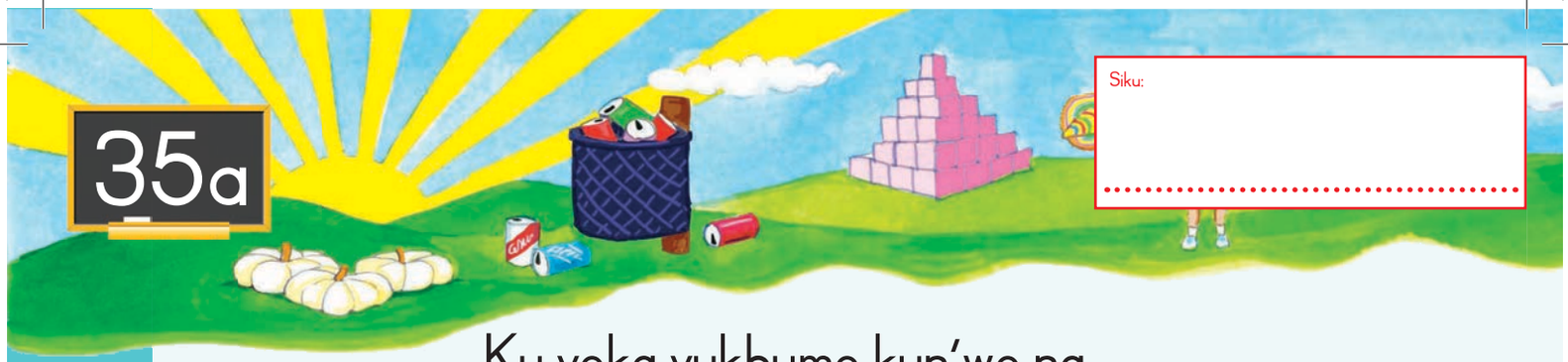
c. Xana i mabokisi mangani ya lavekaka eka:

40 ya ma, _____ ya mabokisi	70 ya ma, _____ ya mabokisi
50 ya ma, _____ ya mabokisi	30 ya ma, _____ ya mabokisi

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 79 2014/05/05 5:03 PM



35a

Siku:

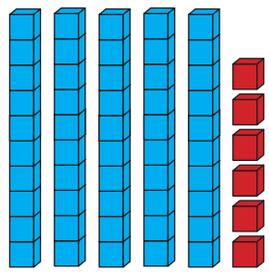
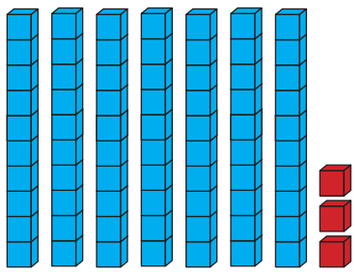
.....

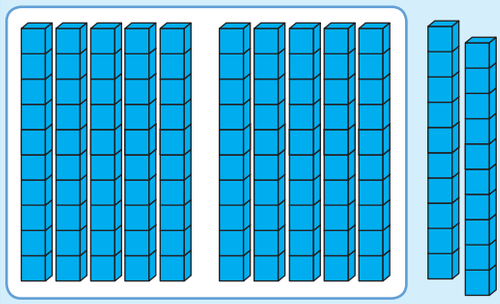
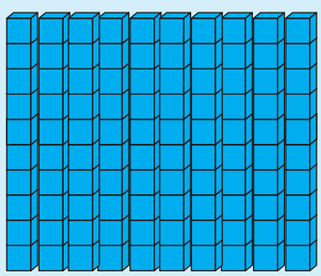
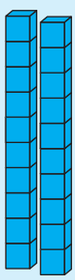
Kotara ya 2

Ku veka vukhume kun'we na ku byi hambanisa

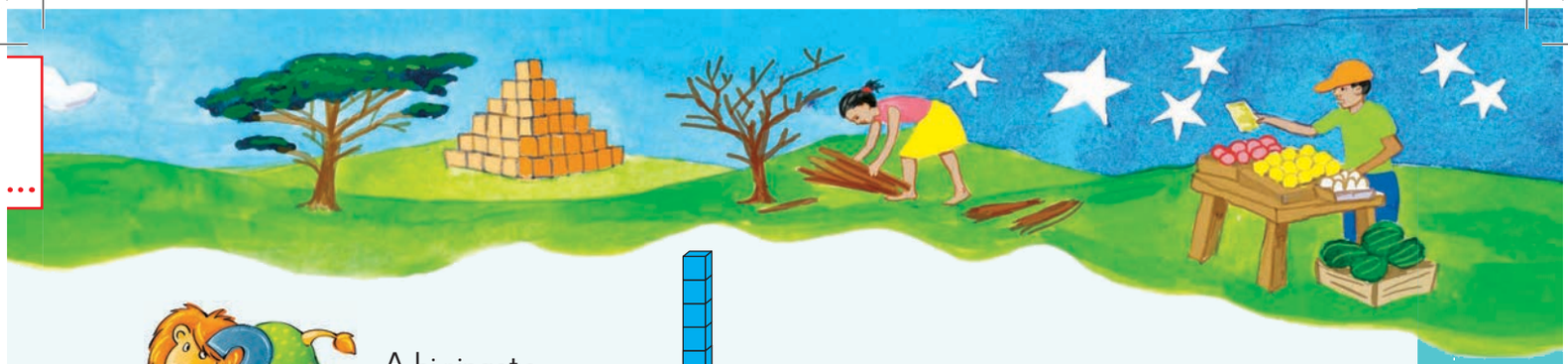


Ku veka vukhume kun'we loko hi hlanganisa

A hi hlanganise 56 + 73 =		+	
	5 ya vukhume na 6 ya vun'we		7 ya vukhume na 3 ya vun'we

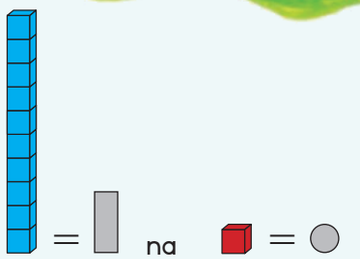
vu-100	vu-10	vu-1
		
Kun'we hi na 12 ya vukhume. Hi nga veka 10 ya vukhume kun'we ku vumba dzana ri 1.		
		

XIT NUM G3 B1 9781431500147.indb 80 2014/05/05 5:03 PM

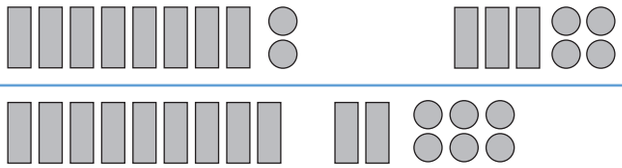




A hi ringete.



Xikombiso: 82 + 34



100 + 20 + 6 = 126

b. 65 + 52

c. 76 + 63

d. 86 + 65



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 81 2014/05/05 5:03 PM



35b

Siku:

Ku veka vukhume kun'we na ku byi hambanisa (ku yisa emahlweni)



Ku veka mintlawa swin'we

Tirhisa tibuloko ta wena ta nkoka wa ndhawu.

Tirhisa tibuloko ta beyisi ra khume ku endla tinomboro letimbirhi.	Hinkwato kun'we I vukhume byingani? I vun'we byingani?	Xana u ntlawahatile vukhume kumbe vun'we? Kambisisa nkoka wa ndhawu laha u nga vumba ntlawa nakambe.	Tsala nomboro.
23 + 99 =	_____ ya vukhume _____ ya vun'we	11 ya vukhume + 12 vun'we = 110 + 12	122
38 + 25 =	_____ ya vukhume _____ ya vun'we		
77 + 31 =	_____ ya vukhume _____ ya vun'we		
68 + 45 =	_____ ya vukhume _____ ya vun'we		
83 + 47 =	_____ ya vukhume _____ ya vun'we		

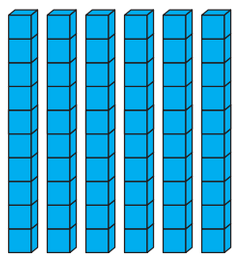
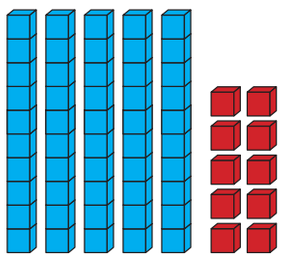
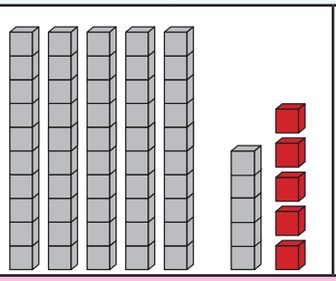


Ku hambanisa vukhume loko hi susa

Loko hi susa, nkarhi wun'wana hi fanele ku kombisa khume rin'we tanihi vun'we bya khume, kumbe dzana rin'we tanihi 10 ya vukhume.

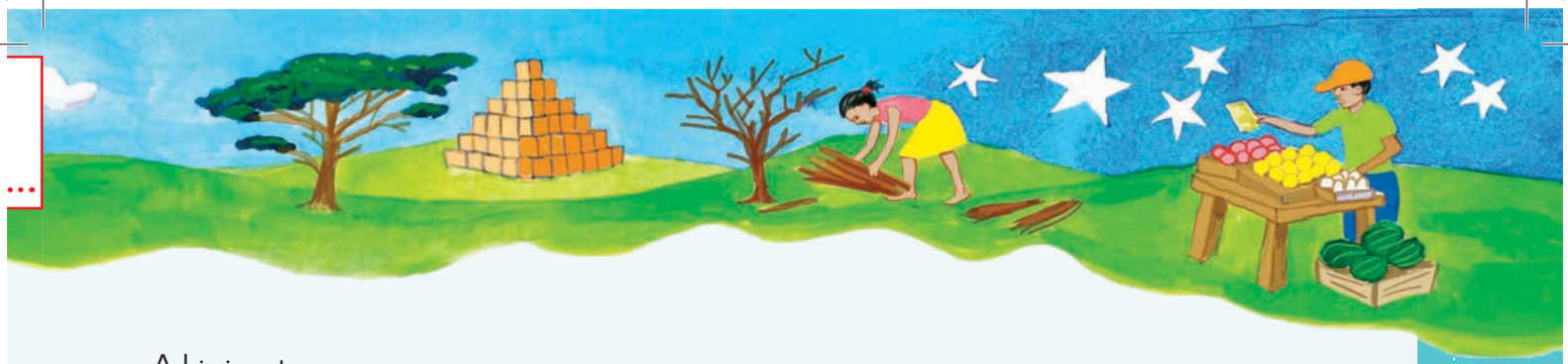
A hi suse: 60 – 55 =

Hi sungula vukhume bya ntsevu naswona ku hava vun'we. Hi lava ku susa vukhume bya ntlhanu na vun'we bya ntlhanu. (Vun'we lebyi susiwaka byi khalariwe hi muhlovo wa mpunga).

			
Hi nga kombisa vukhume bya ntsevu hi ndlela leyi.	Kumbe tanihi vukhume bya ntlhanu na vun'we bya khume.	Susa vukhume bya ntlhanu na vun'we bya ntlhanu. Vun'we bya ntlhanu byi sele.	
		60 – 55 = 5	

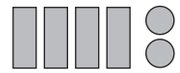
1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 82 2014/05/05 5:03 PM



A hi ringete.

a. 70 – 28

			
7 ya vukhume	6 ya vukhume na 10 ya vun'we	70 – 28 =	

b. 90 – 46

c. 80 – 53



Ku kuma phere ya tinomboro

a.

200	
30	

b.

200	
70	

c.

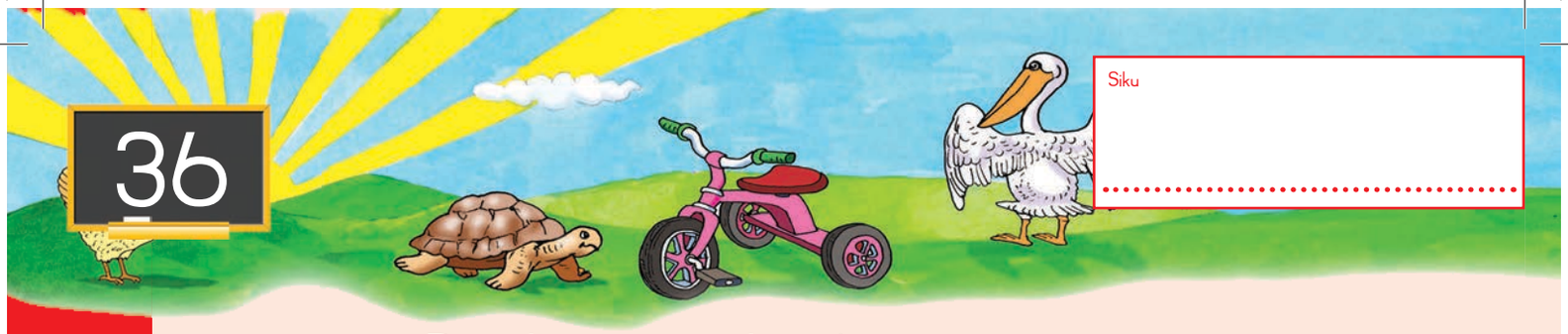
200	
	105

d.

200	
85	



XIT NUM G3 B1 9781431500147.indb 83 2014/05/05 5:03 PM



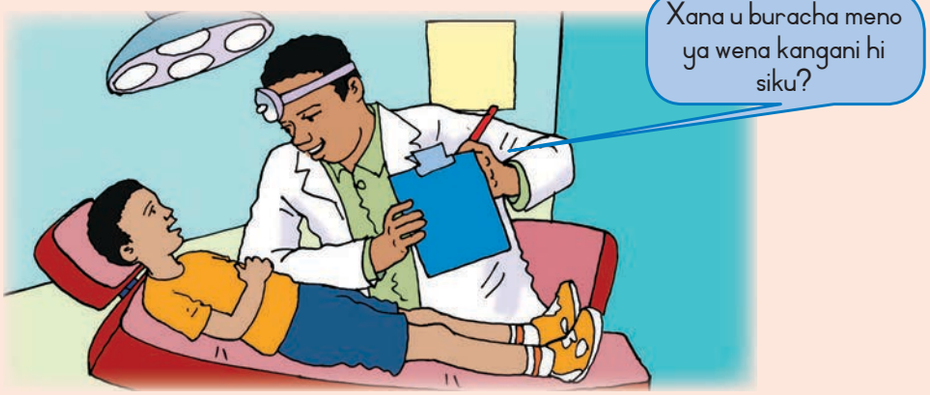
36

Siku .....

Rendzo ro ya eka n'anga ya meno



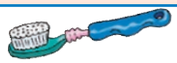
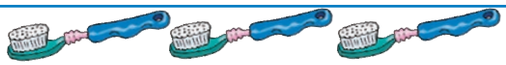
Ntlawa wa vana wu endzela n'anga ya meno.



Leswi vana va yi byelaka swona hi leswi.  = 1

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

a. Hlayela mifungho ya (✓) leyi kombisaka leswaku vana va buracha meno ya vona kangani. Tsala tinomboro.

 Kan'we hi siku	
 Kambirhi hi siku	
 Kanharhu hi siku	

b. Xana u nga vula yini?

Vana vo tala va buracha meno _____ hi siku.
Ku na _____ wa vana entlaweni.

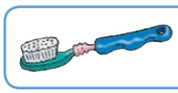
1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 84 2014/05/05 5:03 PM





Dirowa girafu ya swifaniso yo kombisa leswaku vana va buracha meno ya vona kangani hi siku.

 = kan'we



Endla mbalango etlilasini ya n'wina. Vutisa 15 – 20 wa vadyondzi swivutiso.

a. Xana va buracha meno kangani hi siku? _____

b. Dirowa girafu ya swifaniso leyi fanaka na leyi nga laha henhla ku kombisa mbuyelo wa wena.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 85 2014/05/05 5:03 PM

37a

Siku:

Hlanganisa u tlhela u katsa

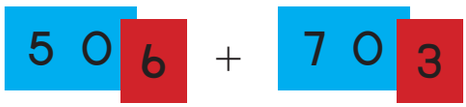


Ku tsala nhlayo ya wena



Busi a nga hlanganisa vun'we na vukhume a tlhela a byi katsa. A nga hlanganisa no susa ephepheni, ku ri hava tibuloko. Nkarhi wun'wana u rhandza ku sungula hi makhadi ya tinomboro ku kombisa tinomboro.

Hikwalaho eka nhlayo ya 56 + 73, u kuma makhadi lama:



U tsale hi ndlela leyi:

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

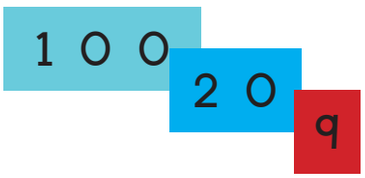
U hlanganisa vu-1 kutani a veka ehansi khadi ra vu-9.



U tiva leswaku: 50 + 70 = 120.

U teka khadi ra vudzana, ra vu-20 na ra vu-9

ku endla nomboro ya 3 wa tidijiti.





Tumi u tiva leswaku tibuloko ti tirha hi ndlela yihi.

U endla 56 + 73 hi ndlela leyi:

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

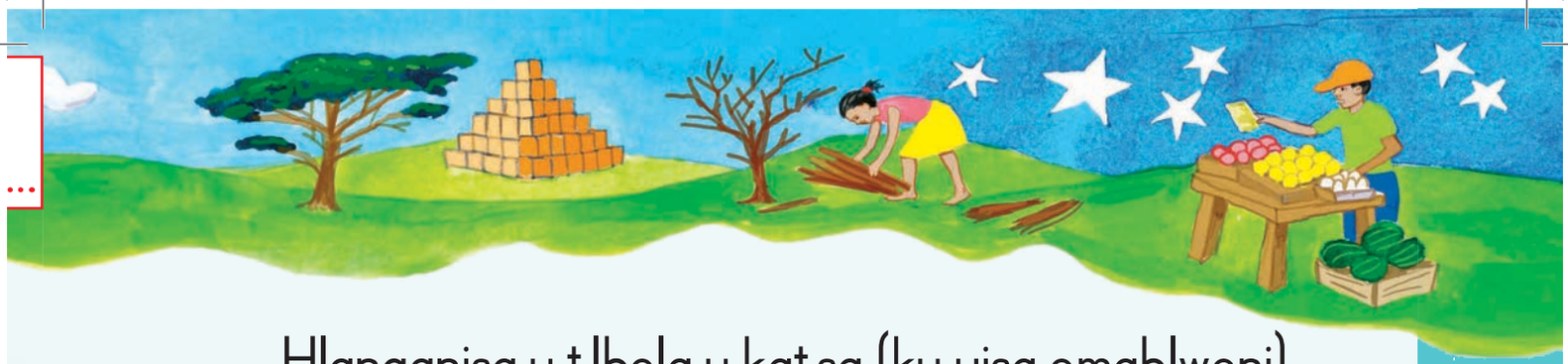


Aakar u rhandza ku katsakanya.
Hi lawa matirhele ya yena eka leyi:

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



XIT NUM G3 B1 9781431500147.indb 86 2014/05/05 5:03 PM



Hlanganisa u tlhela u katsa (ku yisa emahlweni)



Sweswi ringeta. Endla yin'wana na yin'wana hi tindlela timbirhi.

a. 86 + 62



Maendlele ya Busi

80 + 60 + 6 + 2



Maendlele ya Tumi

80 + 6 + 60 + 2

b. 72 + 63

c. 81 + 57

d. 69 + 71

Tirhisa maendlele ya Aakar ku endla leyi.

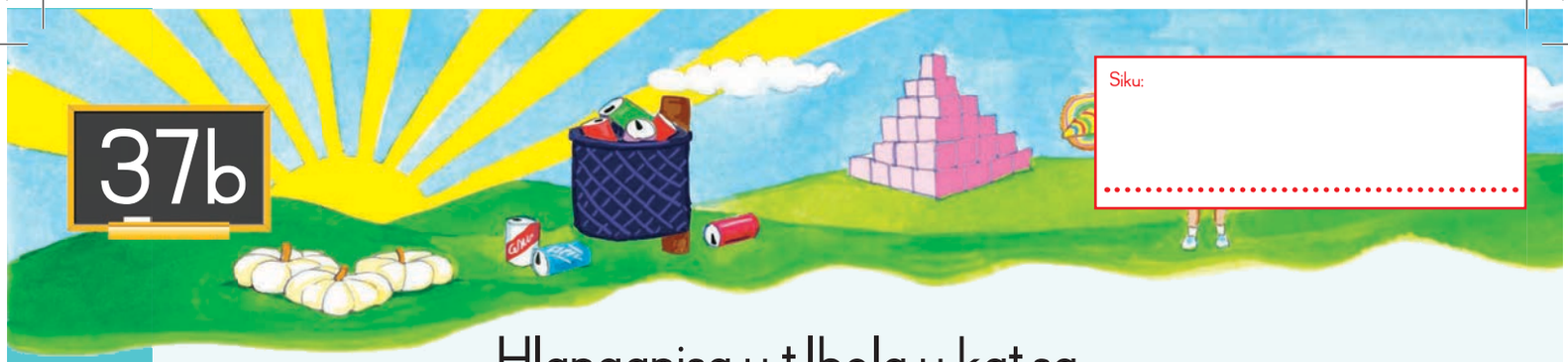
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 87 2014/05/05 5:03 PM



37b

Siku:

Kotara ya 2

Hlanganisa u tlhela u katsa (ku yisa emahlweni)



Sweswi a hi suseni.





a. 87 – 53

Maendlele ya Busi

80 – 50 + 7 – 3

= 30 + 4

= 34

Maendlele ya Tumi's

80 + 7 – 50 + 3

= 30 + 4

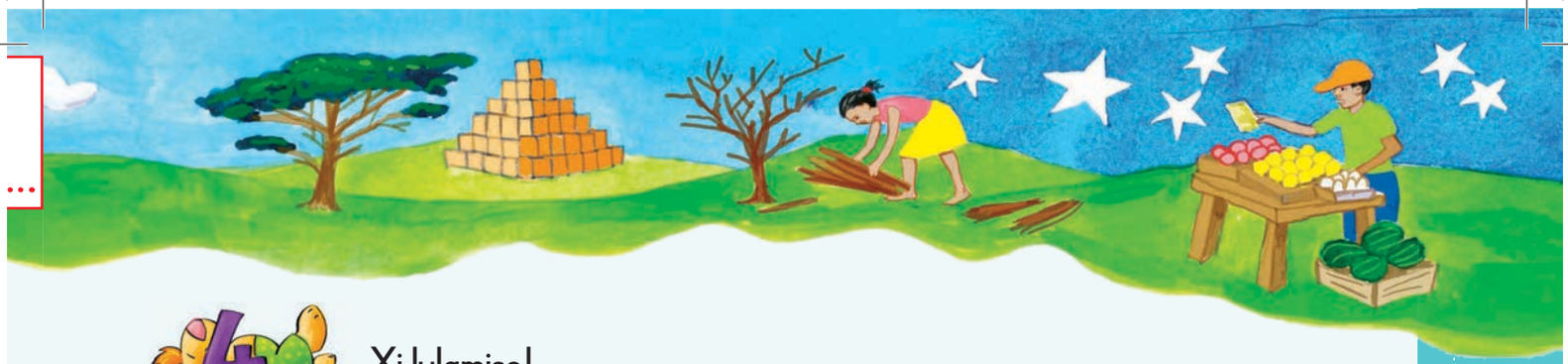
= 34

b. 95 – 73

c. 86 – 62

d. 85 – 69

XIT NUM G3 B1 9781431500147.indb 88 2014/05/05 5:03 PM



Xi lulamise!

Ku na tindlela to tala to hlanganisa vun'we na vukhume. Hlawula ndlela leyi u yi tivaka no yi tsakela swinene ku lulamisa swiphiqo leswi. Kombisa ntirho wa wena.

a. Peter u sungula a kha 34 wa mapencisi kutani endzhaku a kha 67 wa mapencisi. Xana i mapencisi mangani hinkwawo ka wona?



b. Vana va ka Malusi va hlayisa R47 swin'we. Mana wa vona u engetela R58. Xana va na mali muni sweswi?



c. Bazi ra xikolo ri famba 88 km nimixo na 73 km nindzhenga. Xana i tikilomitara tingani hinkwato ka tona?



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 89 2014/05/05 5:03 PM

38

Siku:

Xi lulamise!



Swipfalo swa mabodhlela

Tirhisa ndlela yin'wana na yin'wana leyi u yi tsakelaka. Kombisa ntirho wa wena.



Sipho





Andile

Sipho u hlayela swipfalo swa mabodhlela swa 87. Andile u hlayela 38.
Xana Sipho u hlayele swipfalo swin'wana swingani ku tlula Andile?



Khonsati ya xikolo



Musa



Musa u xavisa mathikithi. U na 92 ya mathikithi yo sungula hi wona. U na 67 lama saleke.
Xana Musa u xavisile mathikithi mangani ku fika sweswi?

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 90 2014/05/05 5:03 PM

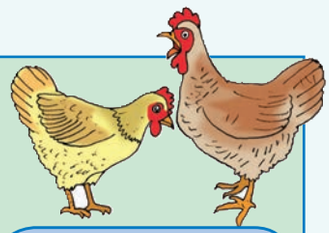




Ku titoloveta kun'wana



Ku na 69 wa swihukwana exihahlwini xin'we na 95 eka xin'wana.
Xana ku na tihuku tingani hinkwato ka tona?
Hlaya hilaha Gugu na Aakar va ololoxaka hakona xiphiqo.



Maendlele ya Gugu

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



Maendlele ya Aakar

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



a. Vafana va hlengeleta R96 ya rendzo ra tlilasi. Vanhwanyana va hlengeleta R79. Xana va hlengeletile mali muni hinkwayo ka yona?

Tirhisa maendlele ya Gugu	Tirhisa maendlele ya Aakar

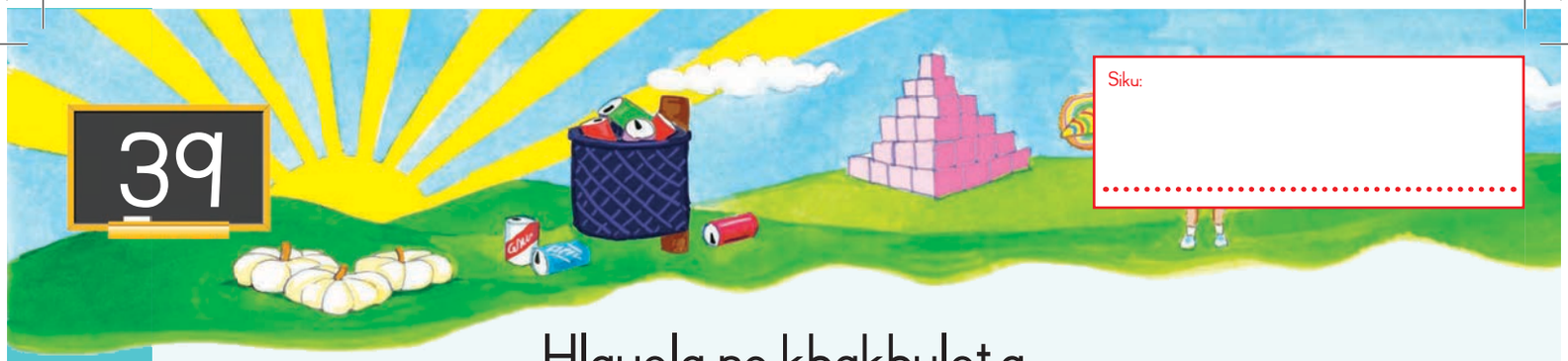
b. Xikolo xin'we xi hlengeleta 76 kg ta swikotela. Xikolo xin'wana xi hlengeleta swikotela swa 68 kg. Xana i tikg tingani ta swikotela leti swikolo leswimbirhi swi ti hlengeleteke hinkwato ka tona?

Tirhisa maendlele ya Gugu ku kambisisa.	Tirhisa maendlele ya Aakar



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 91 2014/05/05 5:03 PM



39

Siku:

Hlayela no khakhuleta



Ku kuma xiphemu

Tsala tinomboro leti siyiweke.

a.

100	
	27

b.

100	
39	

c.

100	
43	

d.

100	
56	

e.

200	
140	

f.

200	
	110

g.

200	
135	

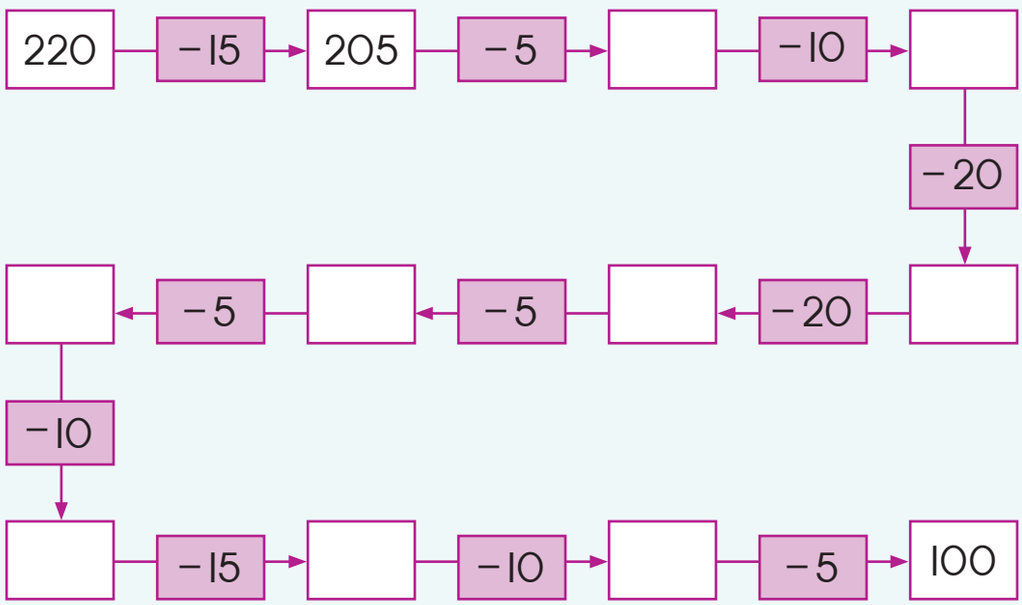
h.

200	
	120



Ku susa ku suka eka 220 ku ya eka 100

Susa tinomboro eka bokisi ra pinki nkarhi wun'wana na wun'wana.
Hi ku endlele yo sungula.



Hi leyi ndlela yo kambisisa tinhlamulo ta wena!

Sungula eka 100! Tirha u ya endzhaku eka 220.

Kambe eka nkarhi wa sweswi, hlanganisa tinomboro!

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 92 2014/05/05 5:03 PM

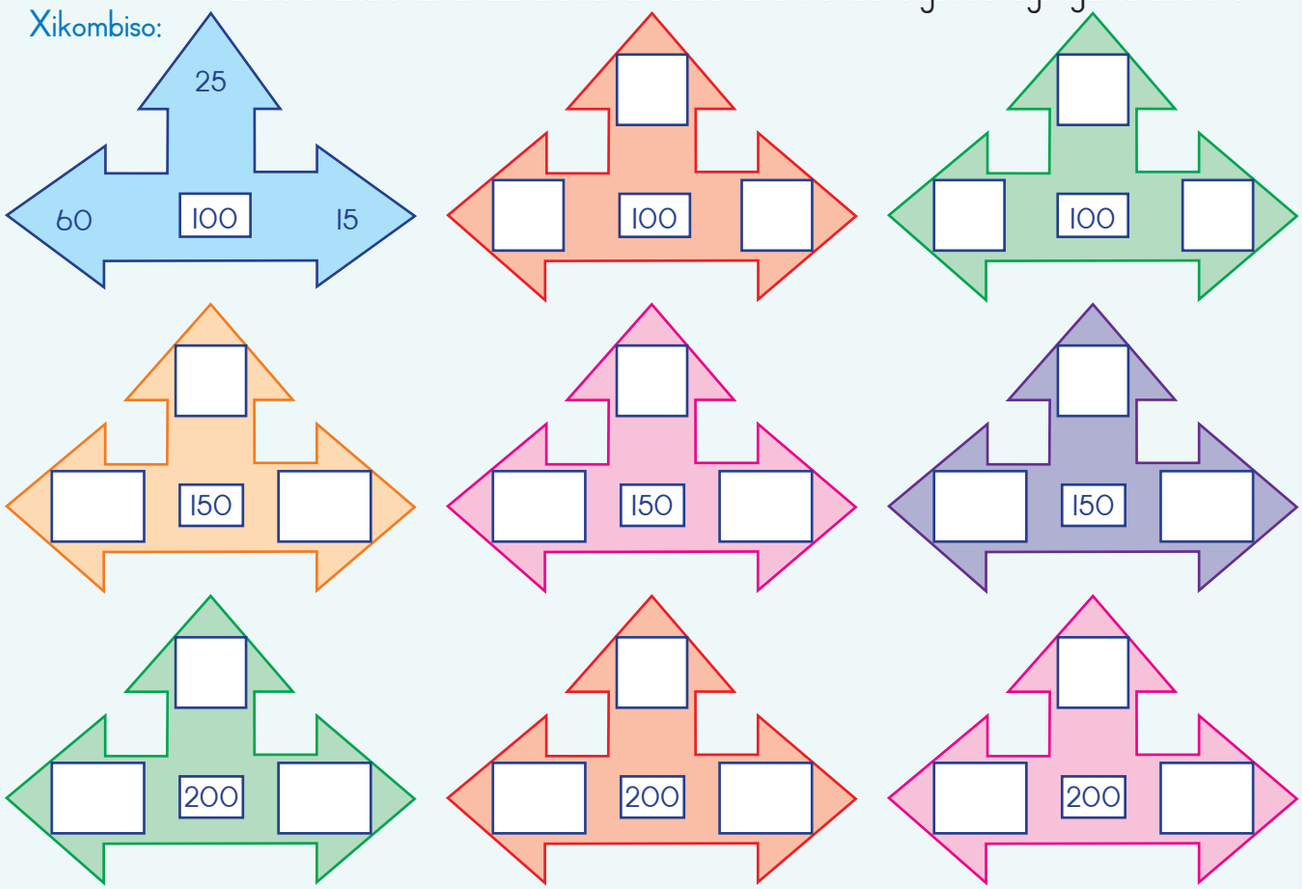




Mindyangu ya nharhu

Kuma 3 wa tinomboro leti hlanganaka ku va nomboro leyi faneleke ku fikeleriwa.
Kambe u fanele ku landzelela nawu wa leswaku i nomboro yin'we leyi nga helaka hi 0.

Xikombiso:





Ku hundza hi 50 no va ehansi hi 50

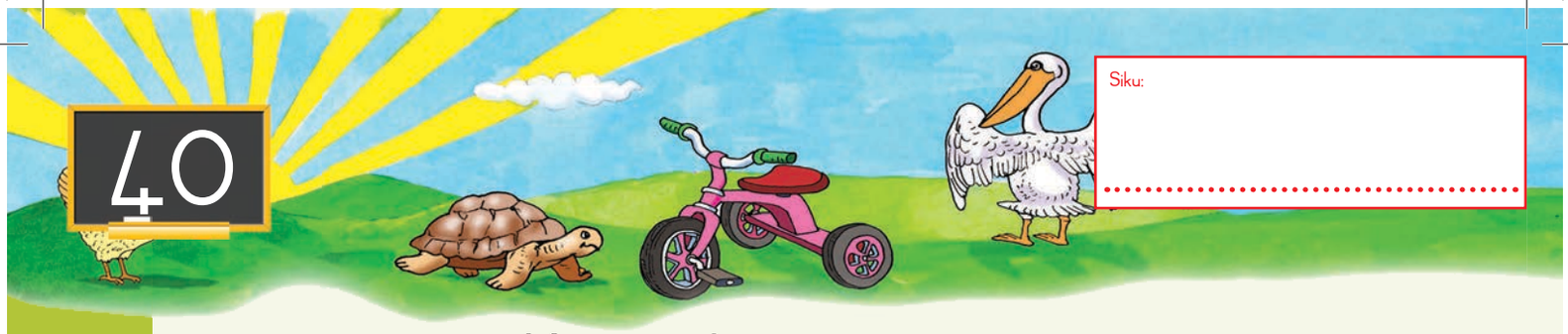
Tsala tinhlamulo eka rixaxa ra vumbirhi.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 93 2014/05/05 5:03 PM



40

Siku:

Kotara ya 2

Ku pima hi tisentimitara



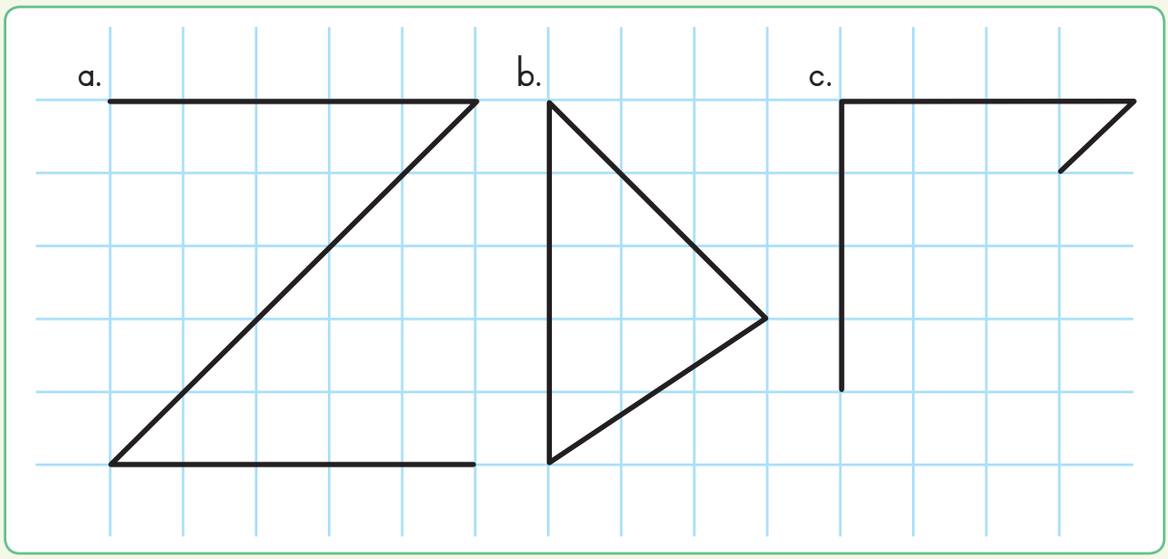
Xana sentimitara i yikulu ku fika kwihi?



Tinomboro eka rhula ti yimela tisentimitara.
Hi tirhisa nkomiso kumbe mfungho wa cm.
Loko u tirhisa rhula, u fanele ku sungula ku pima eka 0.
Tirhula tin'wana a ti kombi 0 ku fana na leyi nga eka pheji leyi.
Kuma ziro cm eka rhula. Tsala 0 eka rhula.
Xana 10 cm yi le kwihi eka rhula leyi? Tsala 10 lahaya.



Pimanyeta kutani u pima hi nkhaqato hi rhula ya wena, ntsengo wa ku leha ka mitila leyi hi ti cm.



a. Pimanyeta		cm	b. Pimanyeta		cm	c. Pimanyeta		cm
Pima		cm	Pima		cm	Pima		cm

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 94 2014/05/05 5:03 PM





Xana layini yin'wana na yin'wana yi lehile ku fika kwihi?

Xana layini yin'wana na yin'wana yi lehile tisentimitara tingani?

Tirhisa rintiho ra wena ku ku pfuna ku kuma nhlamulo.

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

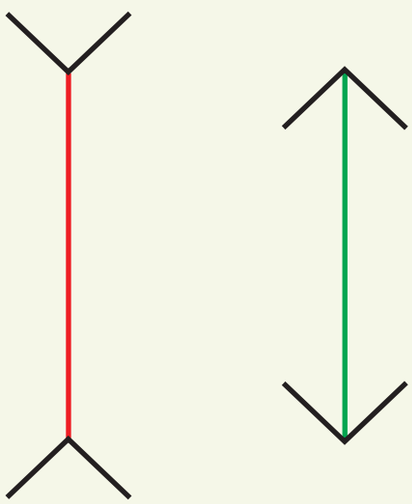


Xana wa tshemba?



Xana hi yihi yo leha, layini yo tshwuka kumbe layini ya rihlaza?

Xana u nga kambisisa njhani?



Leswi ndzi swi vula leswaku i norho wa tihlo. Leswi swi humelela loko mahlo ya wena ya xisiwa hi nchumu lowu hi ntiyiso wu nga riki kona. Tilayini letimbirhi ti na vulehi lebyi ringanaka. Tilayini ta ntima ti pfulekela ehandle ti endla layini yo tshwuka yi languteka yi lehile kasi tilayini ta ntima ti nghena endzeni ti endla layini ya rihlaza yi languteka yi ri yo koma.



Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 95 2014/05/05 5:03 PM



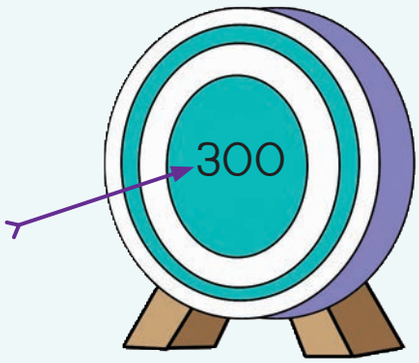
Siku:

.....

Thagete ya 300



Ku hlayela no tsala vu-200



Hlayela ku suka eka 201 ku fika eka 300.

Kombetela loko u karhi u hlayela u ya emahlweni.

Kutani tata tinomboro ta wasi ku sungula.

Tsala tinomboro letin'wana hinkwato.



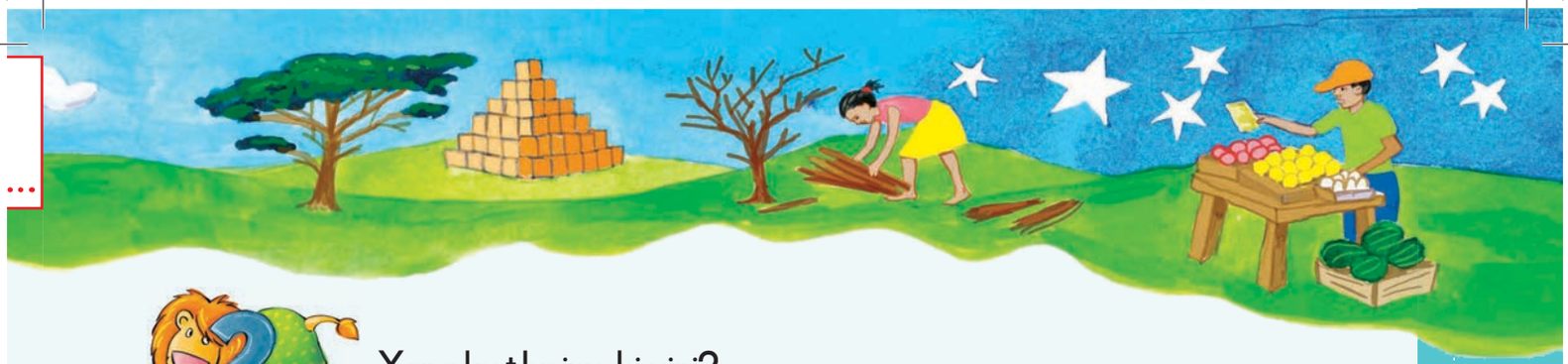
201						207			210
211									
221									
231									
								249	
			254						
				265					
		273							280
281					286				
							298		300

Tsala 10 ya tinomboro endzhaku ka 300.

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



XIT NUM G3 B1 9781431500147.indb 96 2014/05/05 5:03 PM



Xana ku tluriwe hi yini?

301		281					
		171					211
						101	

Ku kombisa no ringanisa

a. Tsala tinomboro leti nghenaka eka khadi rin'wana na rin'wana.

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

200

90

8

b. Tsala tinomboro hi nongonoko wo suka eka leyitsongo ku fika eka leyikulu swinene.

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

Hi kwihi ku cinca? Tsala tinomboro leti siyiweke.

Sungula	200	+25	225		237		249			
								↓		
Heta	300		286		278		261			

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

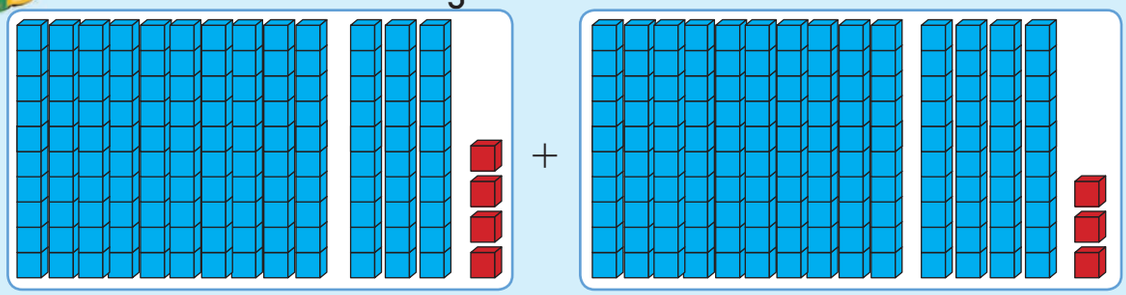
XIT NUM G3 B1 9781431500147.indb 97 2014/05/05 5:03 PM

42

Siku: .....

Ku hlanganisa no susa hi vu-100

Ku tirhisa tibuloko ku hlanganisa



100 30 4 + 100 40 3

= 200 70 7

= 277



Landzelela maendlele mambirhi. Kombisa nhlamulo yin'wana na yin'wana hi tindlela timbirhi.

a. 132 + 123



Maendlele ya Busi

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

= 200 + 50 + 5

= 255



Maendlele ya Tumi

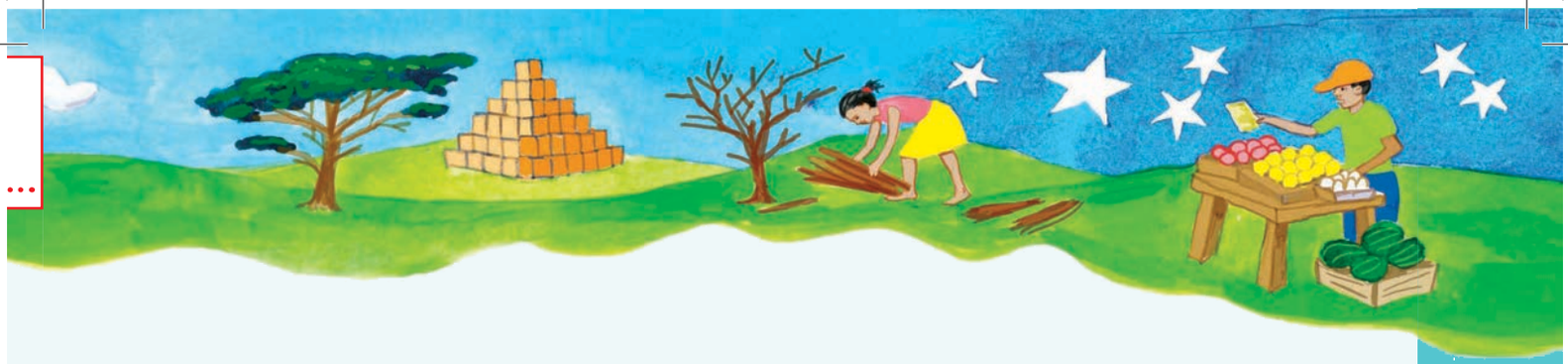
132 + 123

= 200 + 50 + 5

= 255

b. 114 + 162

XIT NUM G3 B1 9781431500147.indb 98 2014/05/05 5:03 PM



c. 276 + 148

Xiya maendlele man'wana na man'wana. Tirha nhlayo yin'wana na yin'wana hi tindlela timbirhi.





a. 158 – 146

Maendlele ya Busi

= 100 – 100 + 50 – 40 + 8 – 6

= 0 + 10 + 2

= 12



Maendlele ya Tumi

158 – 146

= 0 + 10 + 2

= 12

b. 194 – 122

c. 288 – 199

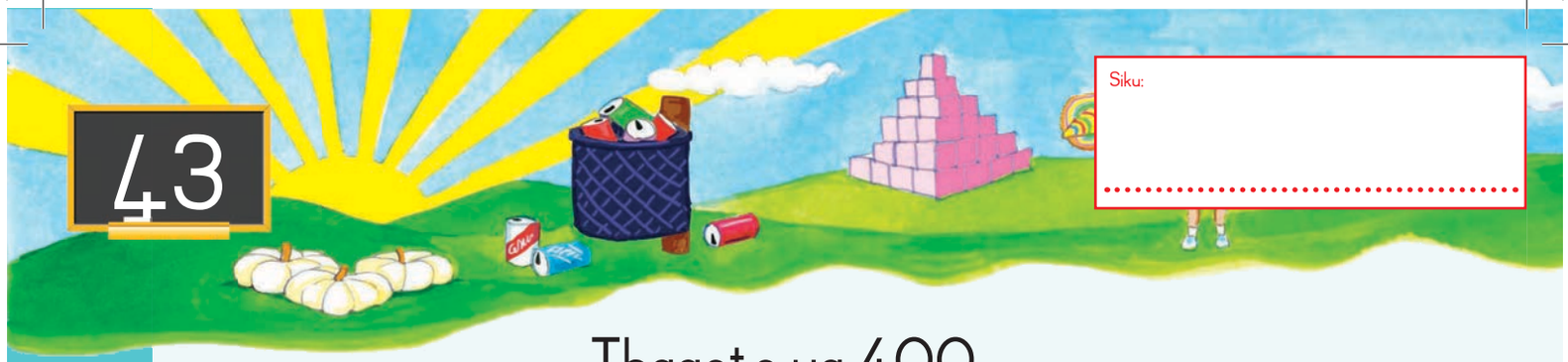
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 99 2014/05/05 5:03 PM



43

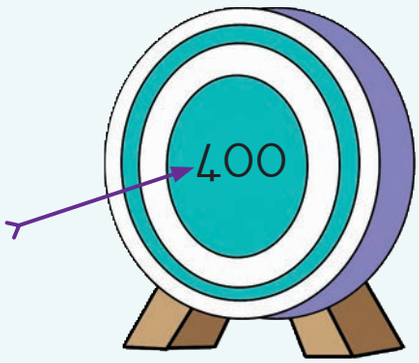
Siku:

Kotara ya 2

Thagete ya 400



Ku hlayela no tsala vu-400



Hlayela ku suka eka 300 ku fika eka 400.

Vula tinomboro loko u ri karhi u hlayela.

Tsala nomboro leyi siyiweke eka giridi.

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



Tsala 9 ya tinomboro leti landzelaka endzhaku ka 400.

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

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 100 2014/05/05 5:03 PM



2 Hlayela emahlweni na hi xindzhaku

a. Ku hlayela emahlweni ku suka eka 300 hi vukhume.

Sungula 300 → +10 → ☐ → +10 → ☐ → +10 → ☐ → +10 → ☐

Heta ☐ ← +10 ← ☐ ← +10 ← ☐ ← +10 ← ☐ ← +10 ← ☐

b. Hlayela ku suka eka 400 hi vukhume.

Sungula 400 → −10 → ☐ → −10 → ☐ → −10 → ☐ → −10 → ☐

☐ ← −10 ← ☐ ← −10 ← ☐ ← −10 ← ☐ → −10 → ☐

☐ → −10 → ☐ → −10 → ☐ → −10 → ☐ Heta

3 Tsala tanihi nomboro yin'we.

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

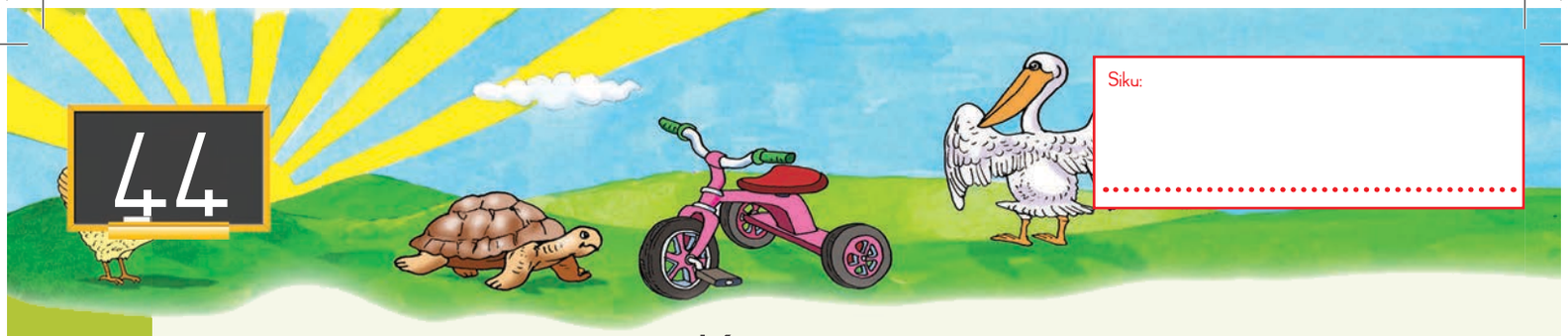
Tsala tinomboro hi nongonoko wo suka eka leyitsongo ku fika eka leyikulu swinene.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 101 2014/05/05 5:03 PM



44

Siku:

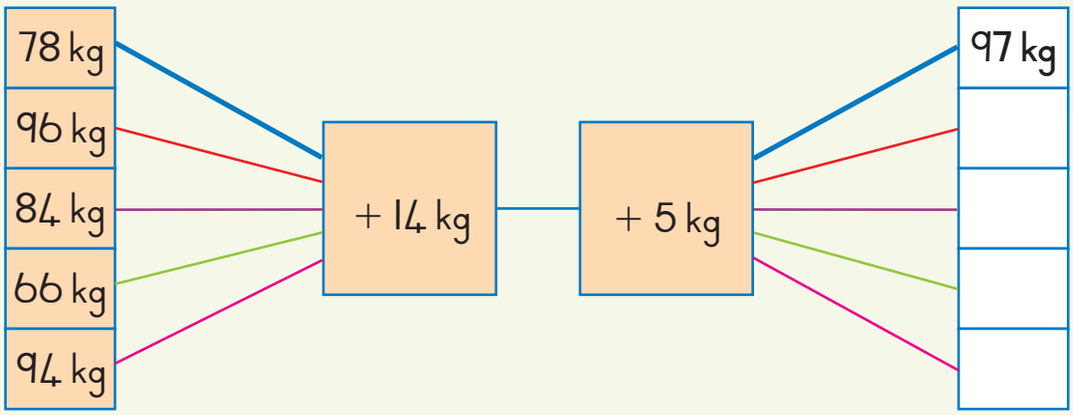
Ku pima



Nomboro yo hlawuleka

Hlanganisa u tlhela u tsala tinhlamulo.

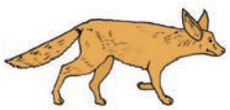
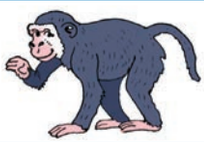






Yisa eka khume ra le kusuhi kutani u hlanganisa!

Ehleketa khwatsi!

				
Mhungubye 25 kg	Xibodze 98 kg	Mfenhe 59 kg	Ximangwana 88 kg	Phelikhene 9 kg

Yisa ntiko wa xiharhi xin'wana na xin'wana eka 10 kg ya le kusuhi.

_____

Tsala ntiko wa xiharhi xin'wana na xin'wana hi nongonoko wo suka eka xo vevuka ku ya eka xo tika.

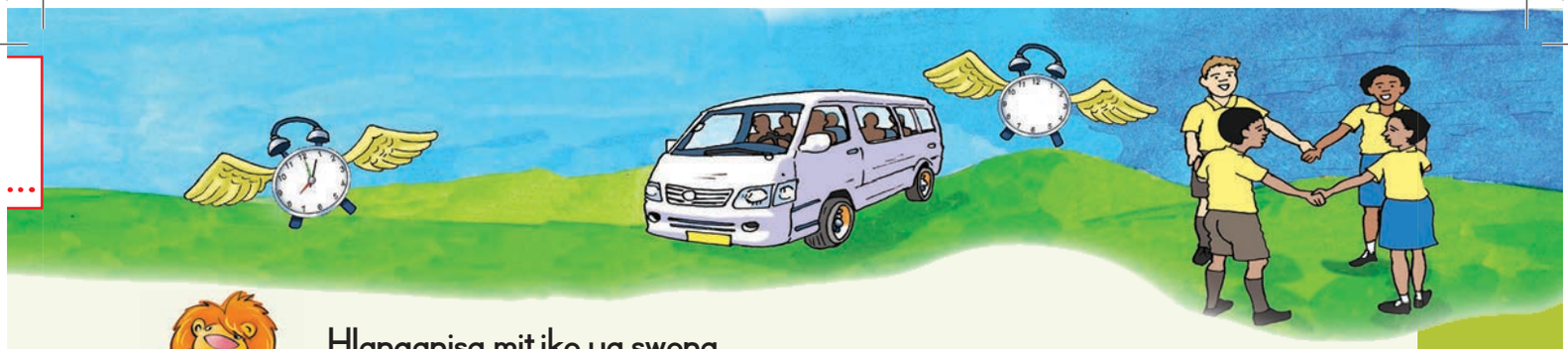
_____

Pimanyeta ntsengo wa ntiko wa 5 wa swiharhi.

_____

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 102 2014/05/05 5:03 PM



Hlanganisa mitiko ya swona



Ndzi nga va ndzi nga tiki ku fana na wena. Nkulukumba N'waxibodze, ndzi na ntiyiso leswaku ndzi na rivilo!



Magoza:

- Tirhisa mitsengo leyi yisiweke eka khume ra le kusuhi.
- Pimanyisa ntiko wa swiharhi eka rixaxa rin'wana na rin'wana.
- Khakhuleta mitsengo.
- Ringanisa mitsengo mimbirhi kutani u tsala ku hambana ka yona.

	Ndza Pimanyisa	Ndza khakhuleta	Ku hambana
			
			
			

Kambisisa. Ringanisa. Lulamisa.

Ntiko wa Vusi

Vusi u engetela ntiko wa yena eka mitiko ya  na  .

Ntiko wa vona hinkwawo i 239 kg. Xana ntiko wa Vusi i yini? Kombisa nhlamulo ya wena.

Ntiko wa mina i yini?

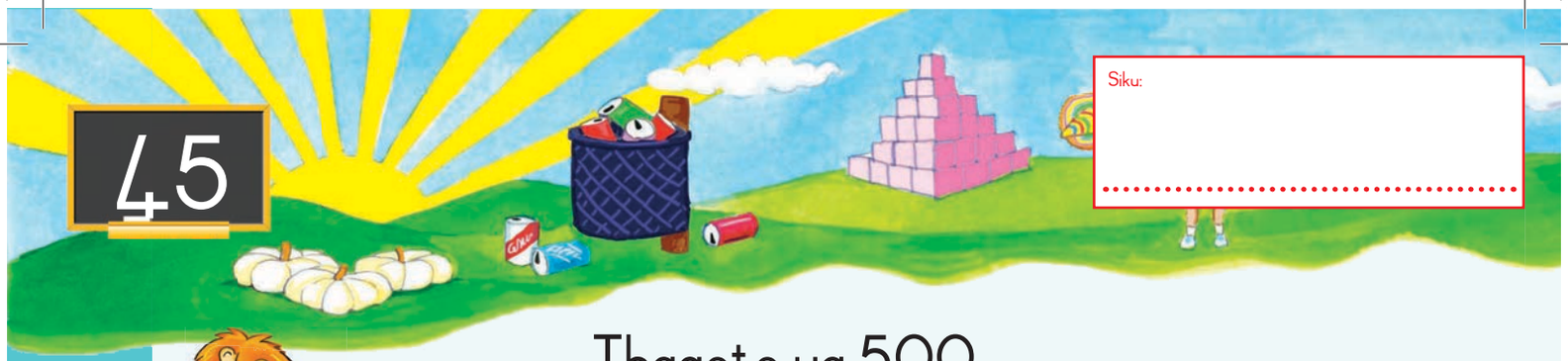
Tlangani hi ntlawa. Siyerisanani ...

Hlanganisa ntiko wa wena eka ntiko wa swin'wana swa swiharhi. Tirha ntsengo. Byela ntlawa nhlamulo. U nga va kombi ntirho wa wena! Va fanele ku tirha va kuma ntiko wa wena.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 103 2014/05/05 5:03 PM



45

Siku:

.....

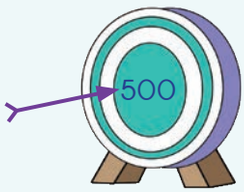
Kotara ya 2

Thagete ya 500



Ku hlayela no tsala

400



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

a. Hlayela ku suka eka 400. Vula tinomboro loko u ri karhi u hlayela u ya emahlweni.

b. Tsala tinomboro leti siyiweke eka giridi.

c. Tsala tinomboro leti landzelaka ta 9 endzhaku ka 500.

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

d. Hlayela hi vu-2. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-2.

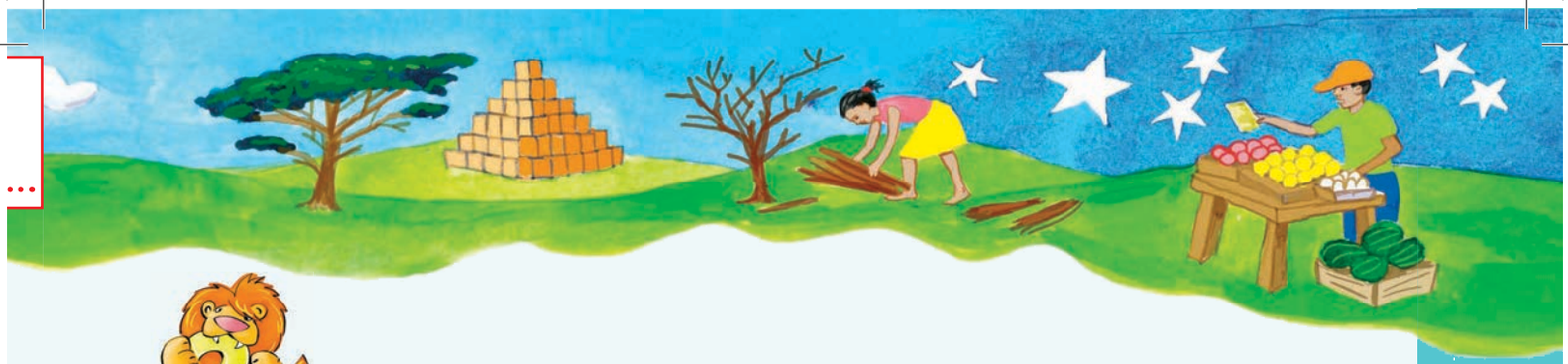
400; 402; _____; _____; _____; _____; _____; _____; _____; _____

e. Hlayela hi vu-5. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

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

1 2 3 4 5 6 7 8 9 10

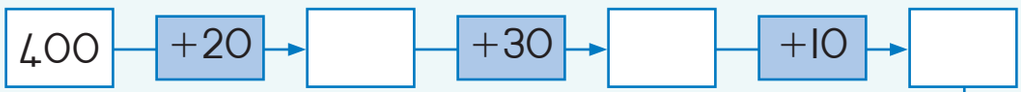
XIT NUM G3 B1 9781431500147.indb 104 2014/05/05 5:03 PM

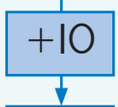


Xana ku cinca hi kwihi?

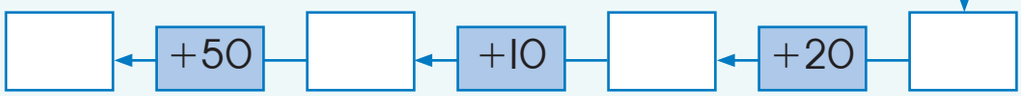
a. Hlayela u ya endzhaku ku suka eka 400.

Sungula



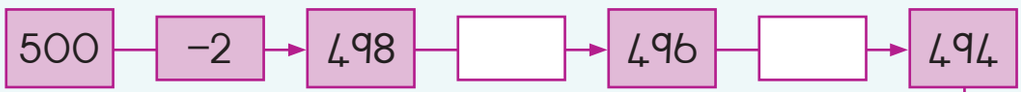


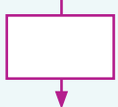
Heta

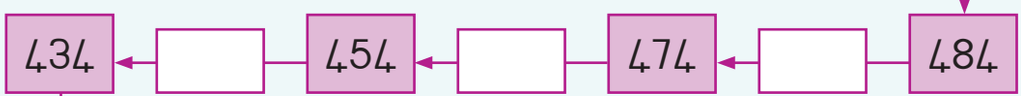


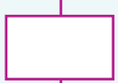
b. Hlayela hi xindzhaku ku suka eka 500.

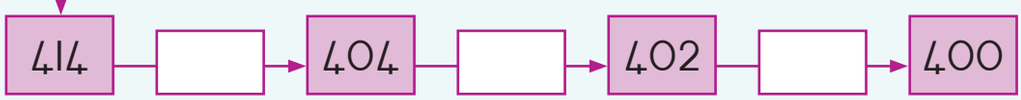
Sungula











Heta



Kombisa tinomboro. Landzelela xikombiso

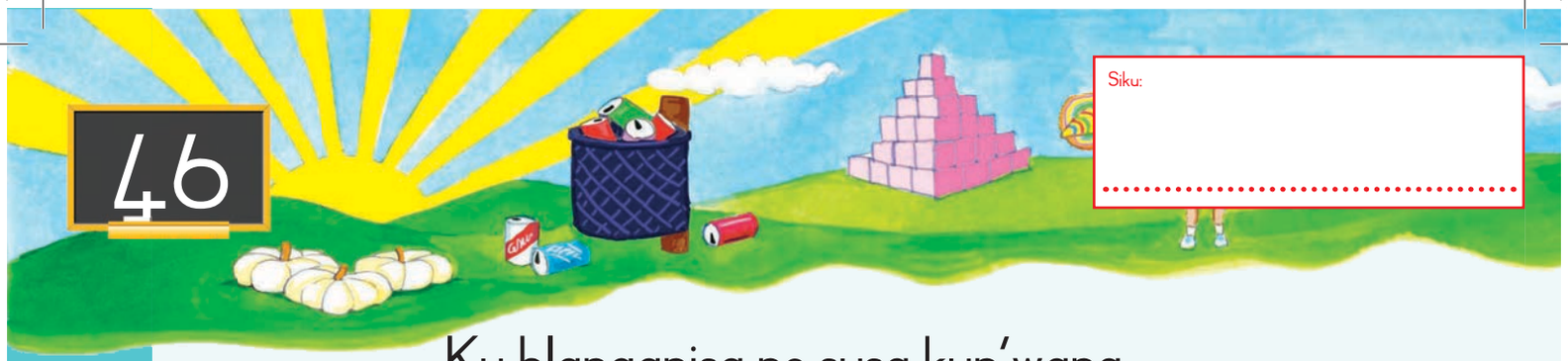
Kuma mitsengo. Tirhisa makhadi ya wena ya tinomboro ku kombisa ntsengo wun'wana na wun'wana.

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

398 + 10		
424 + 10		
460 + 20		



XIT NUM G3 B1 9781431500147.indb 105 2014/05/05 5:03 PM



46

Siku:

Kotara ya 2

Ku hlanganisa no susa kun'wana

200 + 50 + 4 200 + 30 + 5	400 + 80 + 9	489



Hi ta tlhela hi tirhisa maendlele ya Busi na ya Tumi ku hlanganisa.

a. 245 + 231



Maendlele ya Busi

= 200 + 200 + 40 + 30 + 5 + 1

= 400 + 70 + 6

= 476



Maendlele ya Tumi

245 + 231

= 400 + 70 + 6

= 476

b. 278 + 136

c. 265 + 148

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 106 2014/05/05 5:03 PM



Hi ta tlhela hi tirhisa maendlele ya Busi na ya Tumi ku susa.

a. 476 – 324



Maendlele ya Busi

= 400 – 300 + 70 – 20 + 6 – 4

= 100 + 50 + 2

= 152



Maendlele ya Tumi

476 + 324

= 100 + 50 + 2

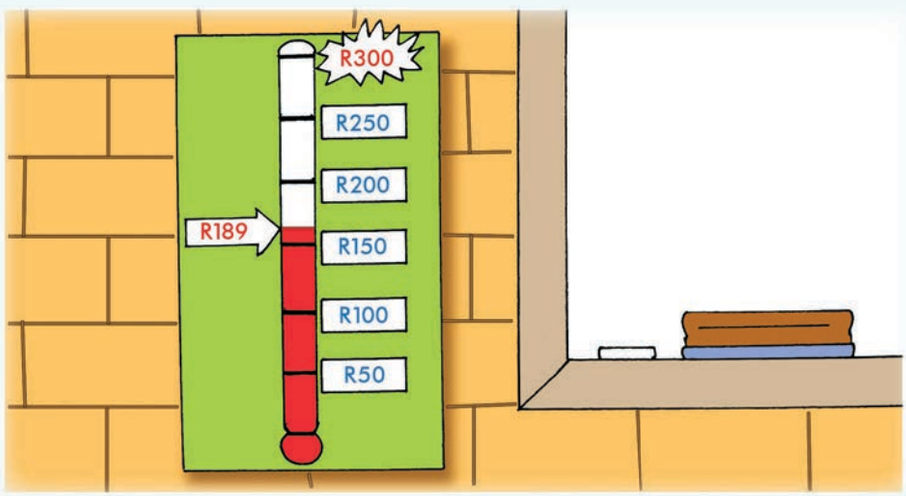
= 152

b. 489 – 456

c. 482 – 161



Ku fikelela thagete



Xiyisisa xifaniso.

Xana ku laveka mali muni ku kota ku fikelela thagete? R

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 107 2014/05/05 5:03 PM



47

Siku:

Kotara ya 2

Lota vutshila bya wena



Ntshava ya xihundla

Xana i yini vito ra ntshava yo leha ngopfu eGauteng? Tirhisa khodi ku kumisisa. Pananisa nhlamulo yin'wana etafuleni na letere leri nga eka khodi.

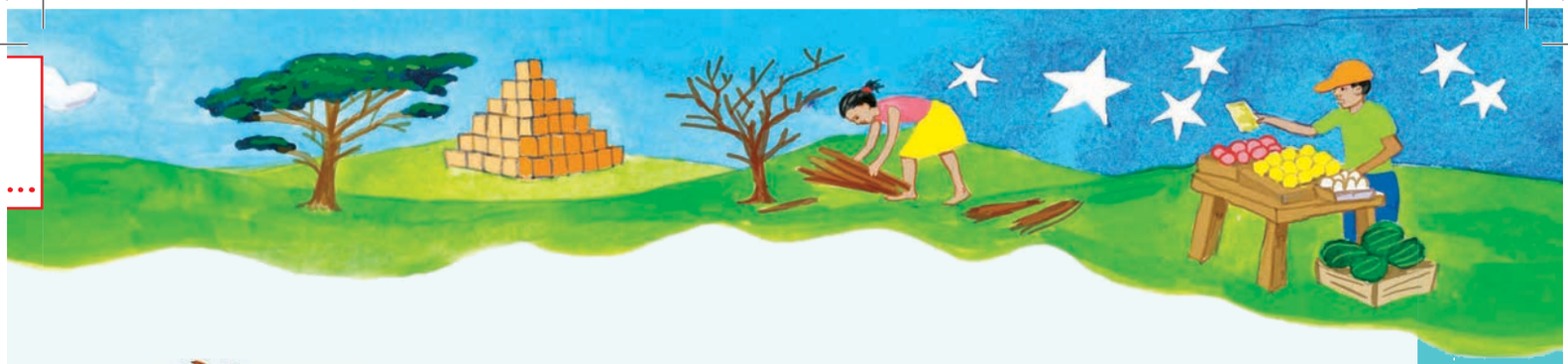
A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Vuthala bya tinomboro	Nhlamulo	Letere
Xikombiso: $2 \times 3 \times 3 \times 1 = \square$	18	R
$50 + 50 + 50 + 100 - 200 - 45 = \square$		
$1 + 2 + 7 + 10 + 7 + 1 - 14 = \square$		
$60 - 30 + 50 + 20 - 50 - 15 - 20 = \square$		
$3 + 2 + 7 + 1 + 2 + 1 + 3 = \square$		
$5 + 3 + 30 = 4 + 2 + 12 + \square$		
$100 - 5 - 70 = 20 + \square$		
$36 + 44 - 60 - 2 = \square$		
$10 + 15 = 14 + \square$		
$2 + 1 + 14 + 9 + 14 = 25 + \square$		
$1 \times 2 \times 2 \times 2 \times 2 = \square$		

Vito ra ntshava i

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 108 2014/05/05 5:03 PM





Languta! Ehleketa no hlamula!

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

a.

Xana nomboro ya 16 yi ta va ya xivumbeko xihi?
Fungha (✓) eka lexi nga xona. ✷ ⊙ ☾

Xana nomboro ya 18 yi ta va ya xivumbeko xihi?
Fungha (✓) eka lexi nga xona. ✷ ⊙ ☾

Xana nomboro ya 23 yi ta va ya xivumbeko xihi?
Fungha (✓) eka lexi nga xona. ✷ ⊙ ☾

b.

Nomboro ya 50 yi ta va ✷.	Hi swona kumbe A hi swona?
Nomboro ya 100 yi ta va ⊙.	Hi swona kumbe A hi swona?
Nomboro ya 28 yi ta va ☾.	Hi swona kumbe A hi swona?



Kambisisa. Fananisa. Lulamisa.



Hi yihi leyi nga tala?

Ku amukela mali yo longisiwa ya R2,50 hi siku hi Khotavuxika na Mawuwani.

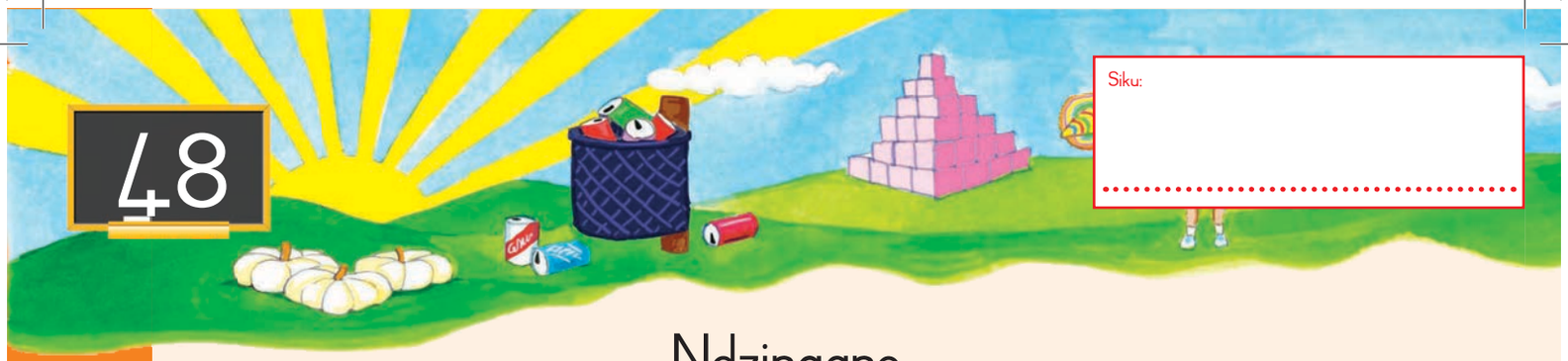
Kumbe ku amukela R150 hi siku ra l Mhawuri.

Kombisa matirhele ya wena.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 109 2014/05/05 5:03 PM

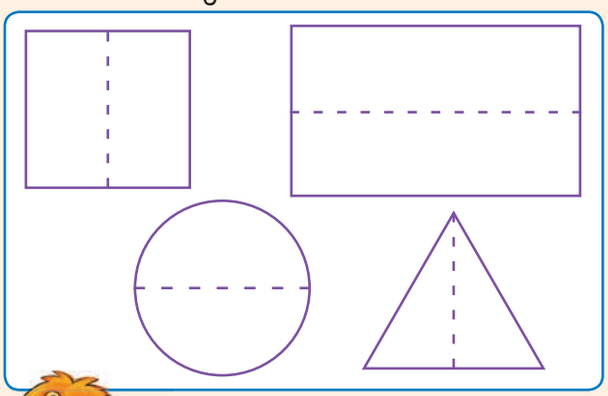


48

Siku:

Ndzingano

Xana u lemuka yini hi swivumbeko leswi?



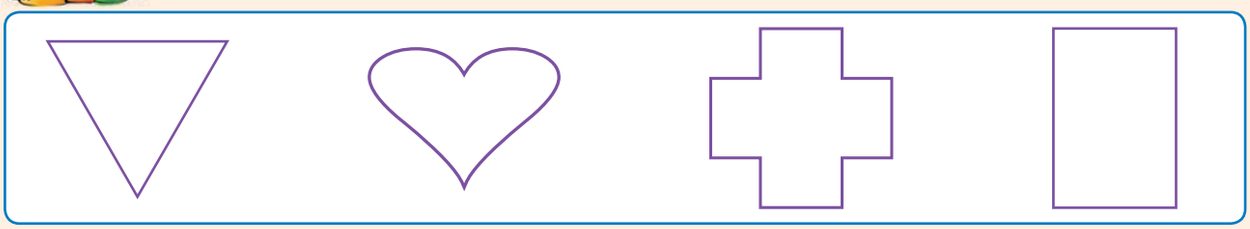
Ntila wa ndzinganiso wu avanyisa xivumbeko eka tihafu timbirhi leswaku hafu yin'wana na yin'wana yi va ntlheriselo wa xivoni wa xiphemu lexin'wana.

Xivumbeko xi na ndzingano loko u xi petsa eka ntila wa ndzinganiso leswaku tihafu letimbirhi ti ta yelana hi nkhaqato.



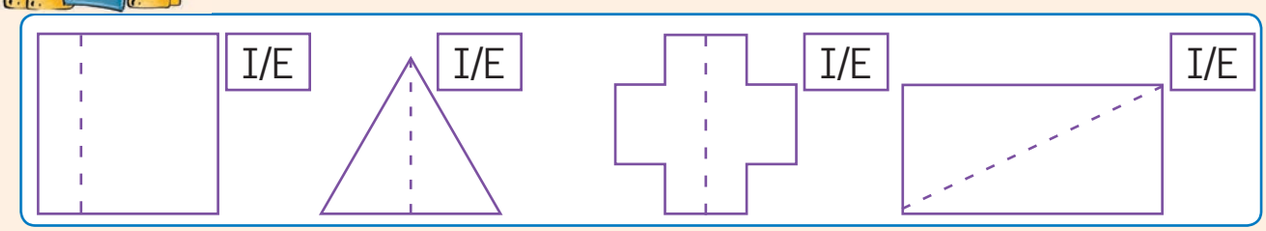


Dirowa ntila wa ndzinganiso eka xivumbeko xin'wana na xin'wana?



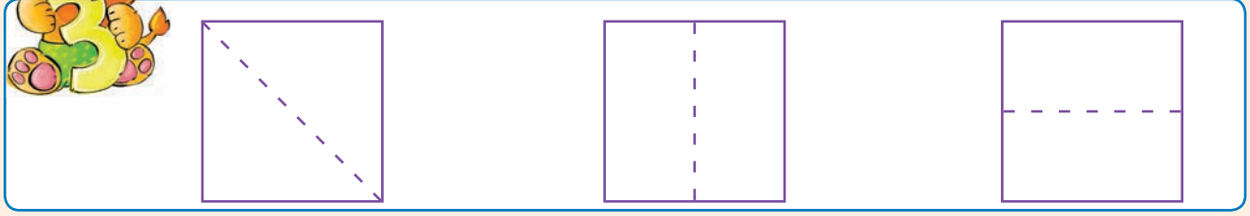


Xana ntila wa mathonsi i ntila wa ndzingano kumbe a hi wona? Tsala xirhendzevutana eka Ina (I) kumbe E-e (E)





Xana lowu i ntila wa ndzinganiso? Hikwalaho ka yini?



1 2 3 4 5 6 7 8 9 10

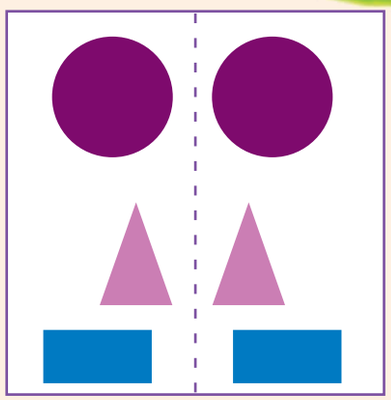
XIT NUM G3 B1 9781431500147.indb 110 2014/05/05 5:03 PM



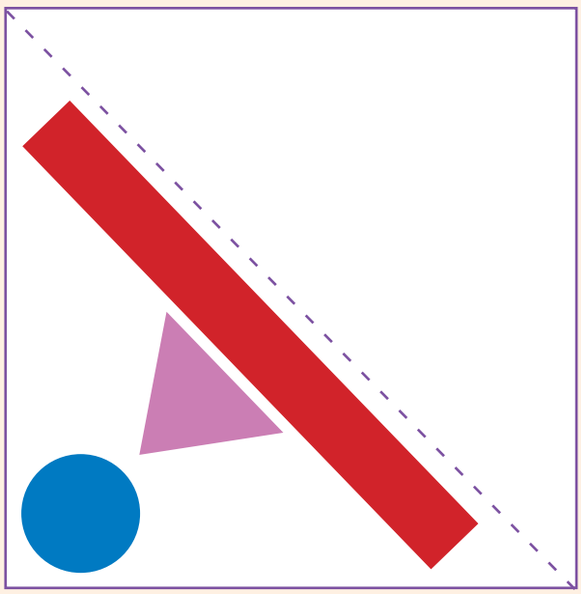
Dirowa swivumbeko ku endla leswaku xifaniso xi va na ndzingano.

Hi ku endlele xo sungula.

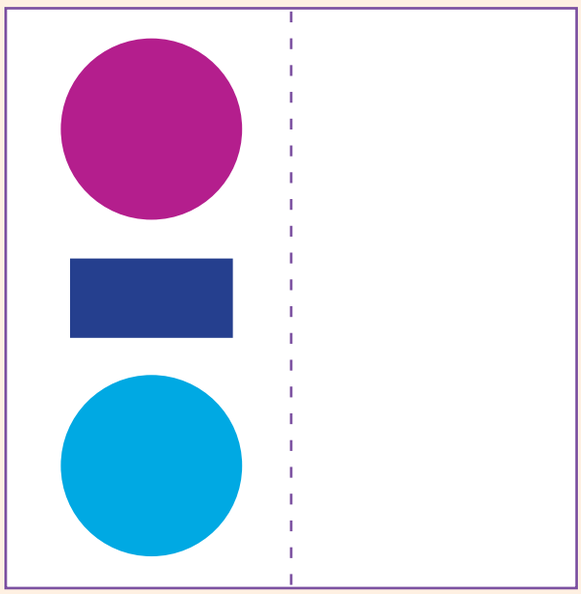
a.



b.



c.





Tumbuluxa khapete ya wena ya ndzingano hi ku tirhisa swivumbeko.



11 12 13 14 15 16 17 18 19 20

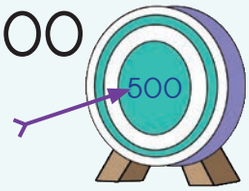
XIT NUM G3 B1 9781431500147.indb 111 2014/05/05 5:03 PM

49

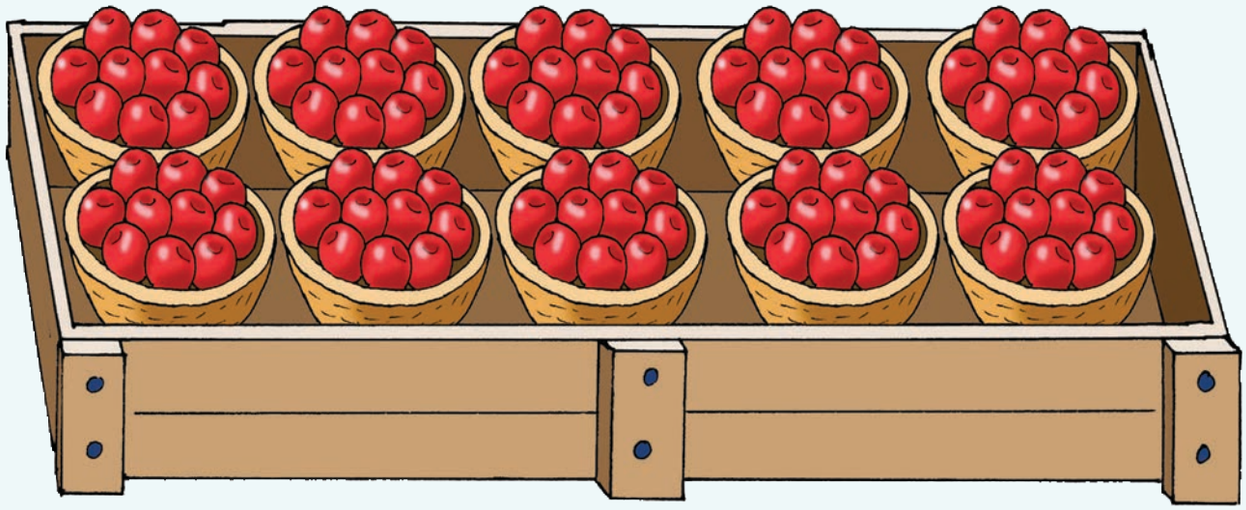
Siku:

Ku aka ku fika eka 500





Ku hlayela maapula



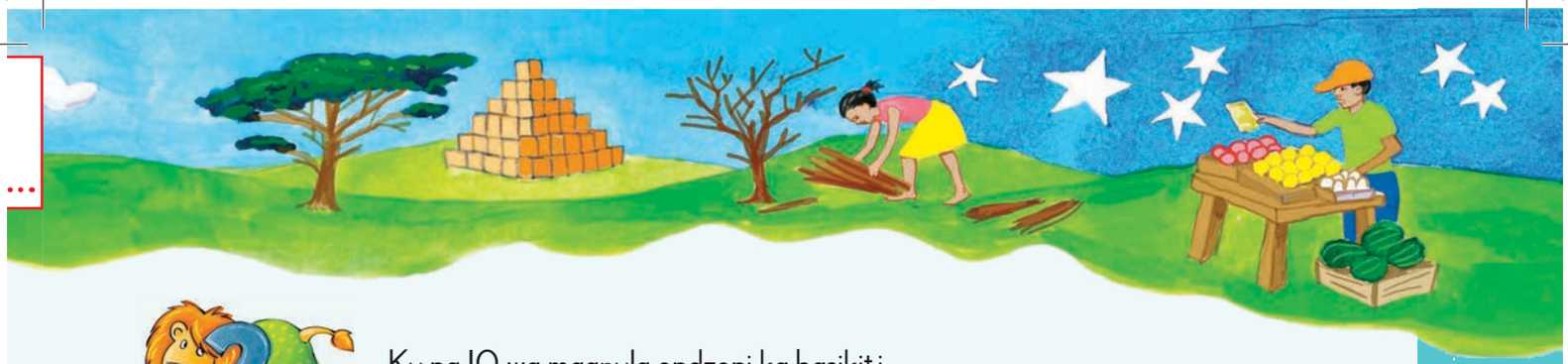
Hetisa u tlhela u andzisa

1 khireti yi khoma _____ wa maapula.	1 × 10 = 10
3 wa tikhireti ti khoma _____ wa maapula.	3 × 10 =
5 wa tikhireti ti khoma _____ wa maapula.	
4 wa tikhireti ti khoma _____ wa maapula.	
2 wa tibasikiti ti khoma _____ wa maapula.	

1 khireti yi khoma 100 wa maapula.	2 wa tikhireti ti khoma ____ wa maapula.
3 wa tikhireti ti khoma ____ wa maapula.	4 wa tikhireti ti khoma ____ wa maapula.
5 wa tikhireti ti khoma ____ wa maapula.	2 wa tikhireti ta hafu ti khoma__wa maapula.

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 112 2014/05/05 5:03 PM

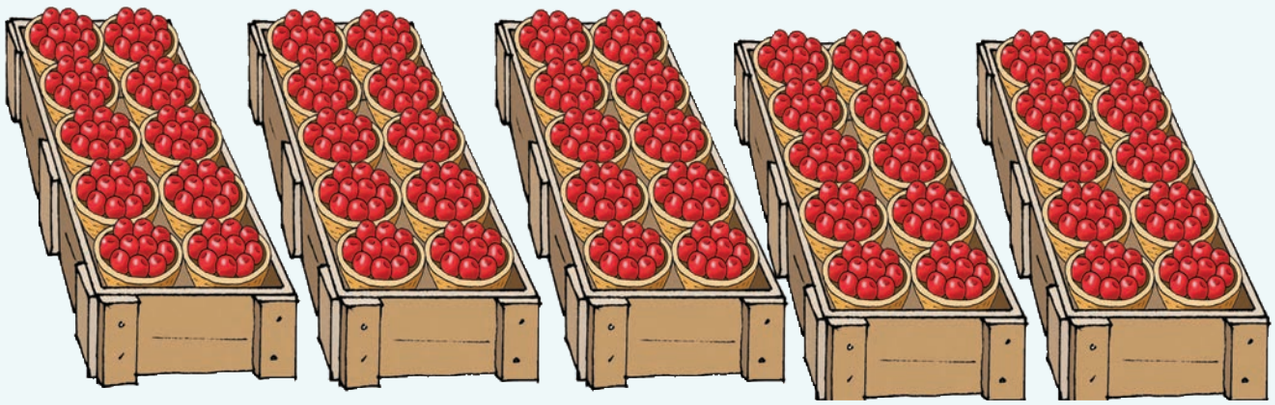


Ku na 10 wa maapula endzeni ka basikiti.

Ku na _____ wa tibasikiti eka khireti yin'we.

Ku na _____ wa maapula eka khireti yin'we.

Xana ku na maapula mangani hinkwawo ka wona? _____



Ku khakhuleta, ku kombisa no tsala

300
40
5

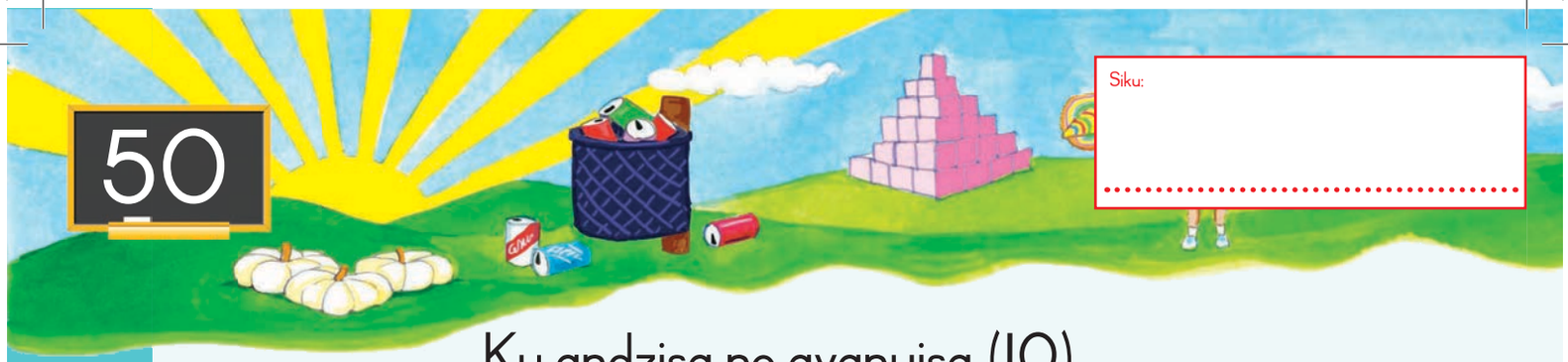
Sungula hi ku tirhisa makhadi ya tinomboro ku kombisa ntsengo wun'wana na wun'wana. Kutani tsala nomboro.

3 wa tikhireti	+	4 wa tibasikiti	+	5 wa maapula	=	345 wa maapula	
4 wa tikhireti	+	5 wa tibasikiti	+	7 wa maapula	=	__wa maapula	
5 wa tikhireti	+	2 wa tibasikiti	+	3 wa maapula	=	__wa maapula	
4 wa tikhireti	+	7 wa tibasikiti	+	2 wa maapula	=	__ wa maapula	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 113 2014/05/05 5:04 PM



50

Siku:

Kotara ya 2

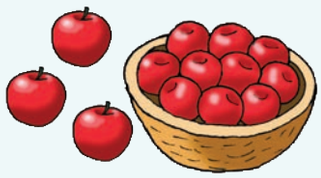
Ku andzisa no avanyisa (10)



Ku hlayela maapula

Tata tafula.

Xana i tibasikiti tingani leti nga na maapula?



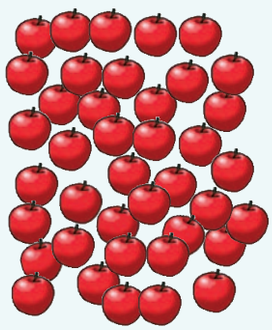
Maapula	10	20	30	40	50
Tibasikiti	1	2			
Nhlayo ya ÷					50 ÷ 10 = 5
Nhlayo ya ×					5 × 10 = 50



Avanyisa maapula exikarhi ka vana. Dirowa xifaniso. Tsala nhlayo ya ku avanyisa na ya ku andzisa ku kambisisa nhlamulo ya wena.

a.









Kambisisa tinhlamulo ta wena

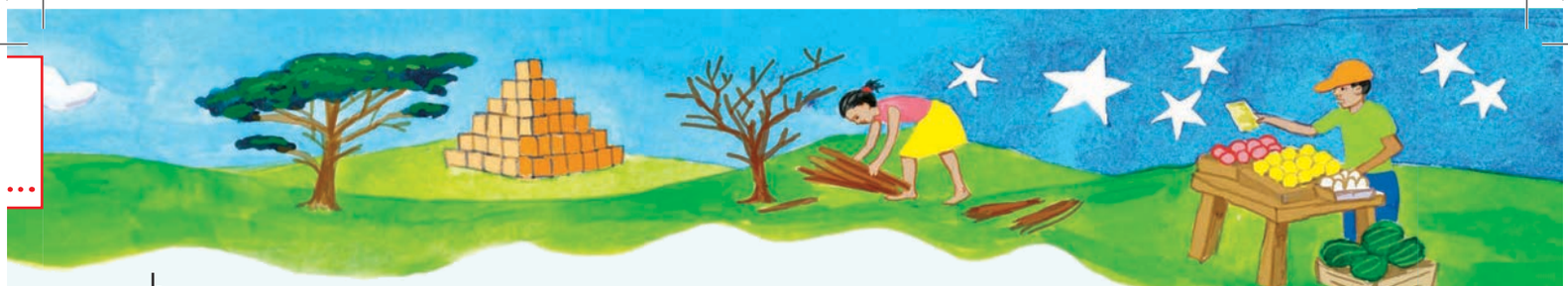
□ ÷ □ = □

□ × □ = □



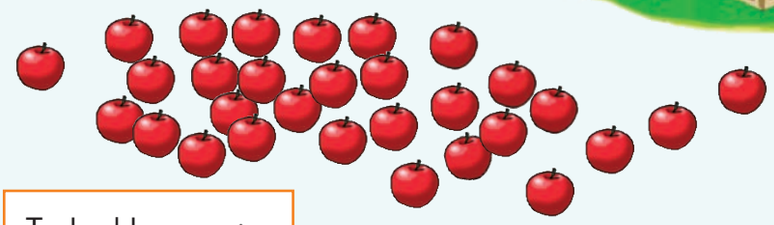
1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 114 2014/05/05 5:04 PM



b.







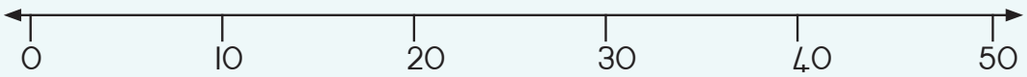
Tsala nhlayo ya ÷

Tsala nhlayo ya × ku kambisisa tinhlamulo ta wena





Tirhisa tinomboro ku endla swivulwa swa wena swa tinomboro.

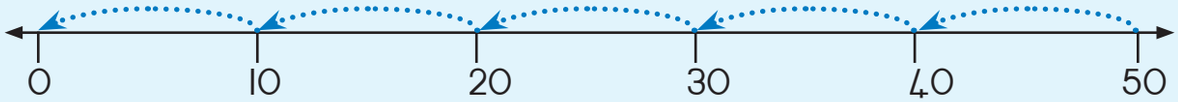


Xikombiso

÷	40 ÷ 10 = 4

×	4 × 10 = 40

a.



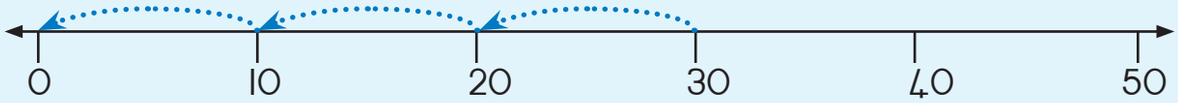
÷		×	

b.



÷		×	

c.



÷		×	



Tsala nomboro leyi nga yitsongo hi 10 na leyi nga yikulu hi 10 eka nomboro leyi nyikiweke.

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

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 115 2014/05/05 5:04 PM



51

Siku:



Hlayela hi vu-2

Ku hlayela emahlweni na hi xindzhaku hi vu-2

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

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

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

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



Tiphere ta magilavhu



a. Xana ku na tiphere tingani ta magilavhu eka rixaxa rin'we? _____

b. Xana ku na magilavhu yo famba hi rin'we mangani eka rixaxa rin'we? _____

c. Xana ku na tinxaxa tingani? _____

d. Xana ku na magilavhu mangani hinkwawo ka wona? _____

e. Kombisa leswi u swi tirhiseke xiswona.

f. Tsala nhlamulo ya wena tanihi xivulwa xa tinomboro.

_____ × _____ = _____

XIT NUM G3 B1 9781431500147.indb 116 2014/05/05 5:04 PM





Xana i magilavhu mangani?

Tsala ematafuleni.

a.

Tiphere	1	10	5	50	4	40	3	30	100
Magilavhu	2								

b.

Gilavhu rin'we	20	21	70	73
Tiphere leti nga endliwaka				
Magilavhu ya rin'we rin'we lama saleke				



Hlayela hi vumbirhi

a. Hi yihi nomboro leyi nghenaka exikarhi?

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

b. Tsala tinomboro timbirhi leti landzelaka.

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

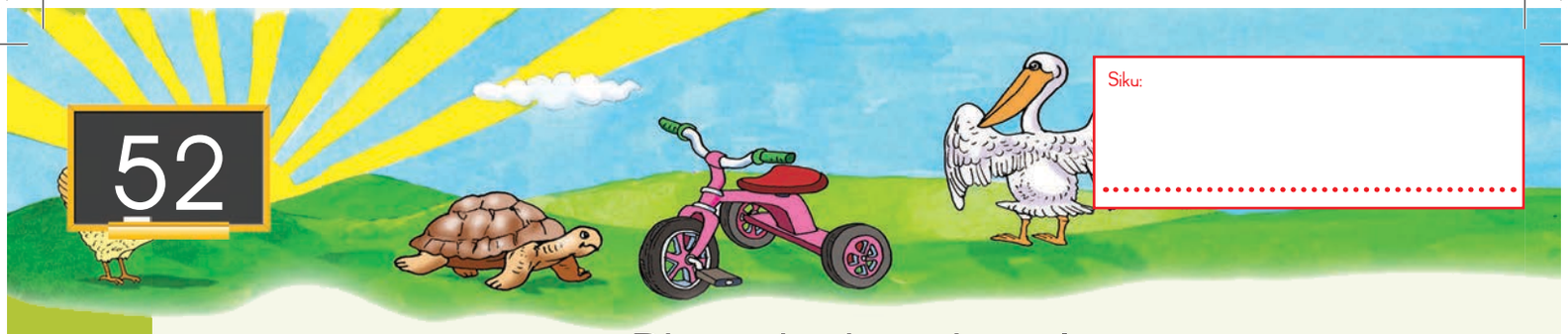
c. Tsala tinomboro timbirhi leti landzelaka.

346, 348, ___, ___	415, 417, ___, ___	297, 299, ___, ___



11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 117 2014/05/05 5:04 PM



52

Siku:

Pheyivha hi tithayele



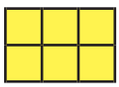
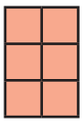
Ku kunguhata xirhapa



Manana Mabena u na tithayele to saseka.

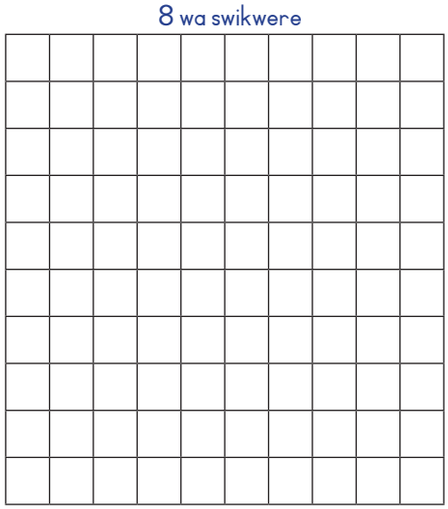
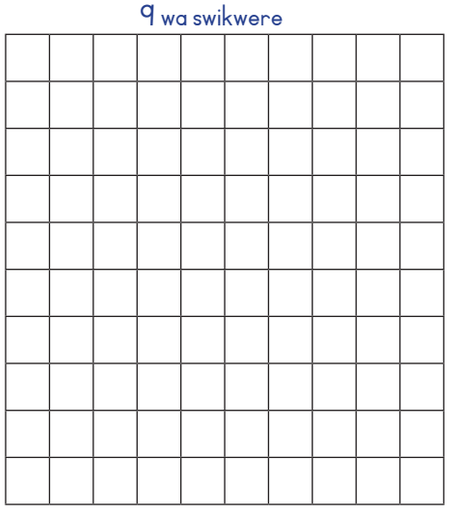
U ti tirhisa ku pheyivha ndhawu exirhapeni xa yena.

Ku na tithayele ta 6 wa swikwere ta sayizi yin'we.

Ndzi endla 1 rixaxa hi 6 wa tithayele.	Ndzi nga endla 2 wa tinxaxa hi 3 wa tithayele eka rixaxa.	Ndzi nga endla 3 wa tinxaxa hi 2 wa tithayele eka rixaxa rin'wana na rin'wana.
		
$6 \times 1 = 6$	$3 \times 2 = 6$	$2 \times 3 = 6$

Sweswi i nkarhi wa wena!

Dzwihata tibuloko ku kombisa leswi u nga vekisaka xiswona tithayele ta 8 na 9 wa swikwere.
Tsala swivulwa swa tinomboro swa xifaniso xin'wana na xin'wana.

8 wa swikwere	9 wa swikwere
	



XIT NUM G3 B1 9781431500147.indb 118 2014/05/05 5:04 PM



Veketela 12 wa tithayele

Thabo u na tithayele ta 12 wa swikwere leti a faneleke ku phiyivha etlhelo ka yindlu ya yena. N'wi pfune ku kuma tindlela hinkwato leti a nga endlaka leswi hatona. Tsala xivulwa xa tinomboro xa ndlela yin'wana na yin'wana.

Xikombiso:	$1 \times 12 = 12$ $12 \times 1 = 12$

Veketela 24 wa tithayele

- Tirhisa giridi leyi nga eka xitsemiwa xa 2.
- Dzwihata 24 wa tibuloko hi tindlela to hambana.
- Tsala swivulwa swa tinomboro ku yelanisa xifaniso xin'wana na xin'wana.

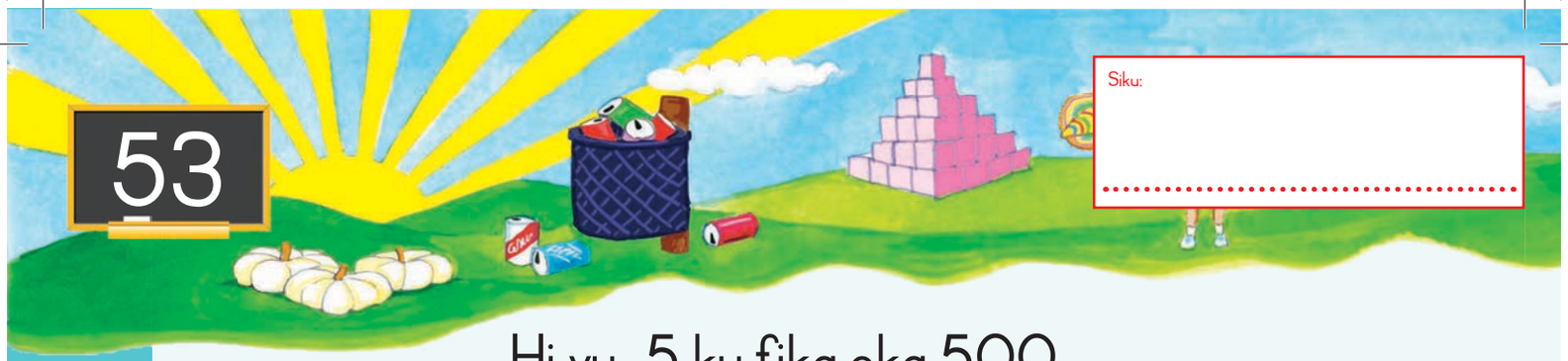
Ndzi nga andzisa!

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 119 2014/05/05 5:04 PM



53

Siku:

Hi vu-5 ku fika eka 500



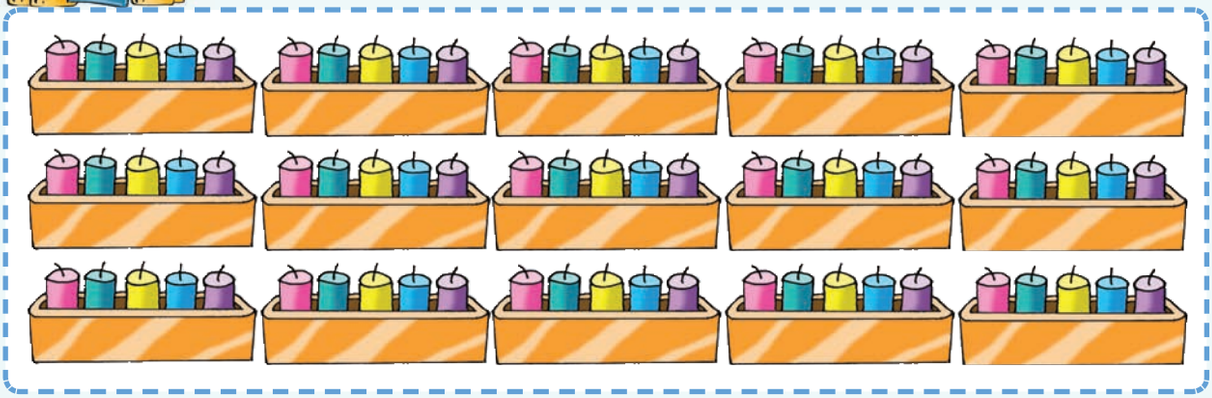
Ku tiva vu-5 bya wena

Tata tinhlamulo.

	1	2	3	4	5	6	7	8	9	10
× 5	5									



Ku hlayela makhandhlela



a. Ku na makhandhlela mangani eka bokisi rin'wana na rin'wana? _____

b. Ku na mabokisi mangani eka rixaxa rin'wana na rin'wana? _____

c. Ku na makhandhlela mangani eka rixaxa rin'wana na rin'wana? _____

d. Ku na makhandhlela mangani hinkwawo ka wona? _____



Kombisa nhlamulo ya wena

Gwajula (✓) swivulwa swa tinomboro leswi kombisaka ntsengo wa makhandhlela.

a. $5 \times 3 \times 3 =$ ☐ b. $15 \times 3 =$ ☐ c. $3 \times 5 \times 5 =$ ☐ d. $15 \times 5 =$ ☐

1 2 3 4 5 6 7 8 9 10

XIT NUM G3 B1 9781431500147.indb 120 2014/05/05 5:04 PM



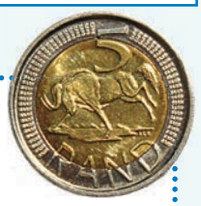
4 Ku hlayela emahlweni na hi xindzhaku hi vu-5

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

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

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

5 Ku hlengeleta tikhoyini ta R5



Vana va hlengeleta tikhoyini ta R5. Xana va lava tikhoyini ta R5 tingani ku endla:

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

2 × R5 = R _____

4 × R5 = R _____

3 × R5 = R _____

6 × R5 = R _____



6 Ku andzisa hi vu-5

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

Ehleketa khwatsi! Aka ehenhla ka leswi u swi tivaka!

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

XIT NUM G3 B1 9781431500147.indb 121 2014/05/05 5:04 PM

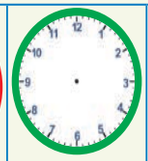
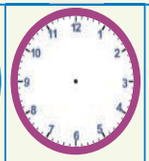
Siku:

Ku tirha hi nkarhi

Dirowa minkarhi





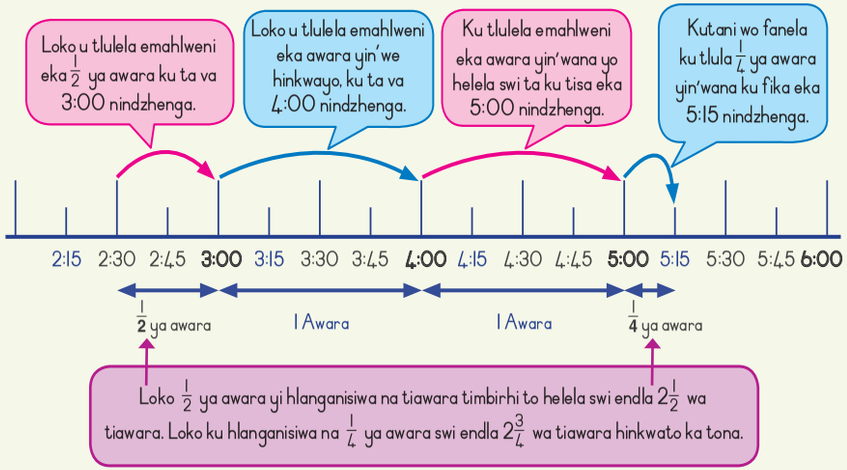
					
Hafu ku bile awara ya 5	Kotara ku ya eka awara ya khumen'we	Kotara ku bile awara ya 12	12:45	6:15	4:30

Xiphiqo xa nkarhi



Mana wa Nomsa u suka ekaya hi 2:30 nindzhenga. U vuya hi 5:15 nindzhenga. Xana u va a humile nkarhi wo tanihi kwihi?

Hi nga tirhisa nxaxamelo wa mikarhi ku swi tirha. Vekela rintiho ra wena eka 2:30, nkarhi lowu ku nga wona sweswi.





Swiphiqo swa nkarhi

Kambisisa. Ringanisa. Lulamisa.

Lulamisa xiphiqo xin'wana na xin'wana. Tirhisa mixaxamelo ya minkarhi ku ku pfuna.

a. Sasavona u endzela tata wakwe etliliniki hi 15:45 nindzhenga.
U suka hi 17:15 nindzhenga.
Xana u va a endzile nkarhi wo tanihi kwihi?



_____



b. Musa u ya ephakeni hi 10:45 nimixo.
U vuya ekaya hi 12:30 ninhlekanhi.
Xana u va a fambile nkarhi wo tanihi kwihi?



_____



c. Tumi u sungula ku hlaya hi 13:15 nindzhenga.
U heta hi 14:45 nindzhenga.
Xana Tumi u hlaya nkarhi wo tanihi kwihi?



_____





XIT NUM G3 B1 9781431500147.indb 122 2014/05/05 5:04 PM

Siku:

XIT NUM G3 B1 9781431500147.indb 123

55

Siku:

Hlayela hi vu-3 na vu-4



Mapoto ya 3 wa milenge

Hlanganisa kutani u tsala nhlamulo



a. Xana ku na mapoto mangani erixaxeni? _____

b. Xana ku na milenge yingani erixaxeni? _____

c. Xana ku na tinxaxa tingani ta mapoto? _____

d. Xana ku na milenge yingani hinkwayo ka yona? Kombisa leswi u swi tirhiseke xiswona.

Fungha (✓) swivulwa swa tinomboro laha hansi leswi kombisaka ntsengo.

$21 \times 7 =$ ☐ $3 \times 7 \times 3 =$ ☐ $3 \times 4 \times 2 =$ ☐ $21 \times 3 =$ ☐



Xana ku na milenge yingani?

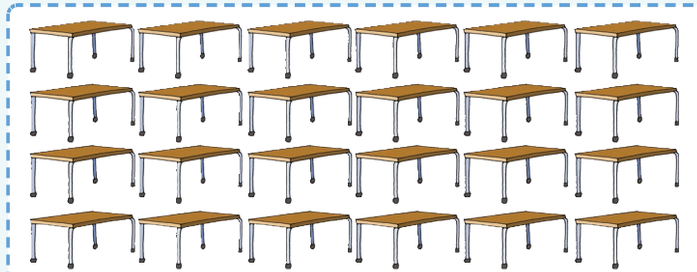
Ehleketa hi xihatla

Ehleketa khwatsi.

1 poto	3	ya milenge	10 wa mapoto		ya milenge	5 wa mapoto		ya milenge
2 wa mapoto		ya milenge	15 wa mapoto		ya milenge	12 wa mapoto		ya milenge
5 wa mapoto		ya milenge	13 wa mapoto		ya milenge	14 wa mapoto		ya milenge



Milenge ya matafula



a. Xana ku na matafula mangani erixaxeni? _____

b. Xana ku na milenge yingani erixaxeni? _____

c. Xana ku na tinxaxa ta matafula tingani? _____

d. Xana ku na milenge yingani hinkwayo ka yona? Kombisa leswi u swi tirhiseke xiswona.



Efemeni



Muvatli u endla matafula. U sungula hi ku endla milenge.

U endlile 48 ku fikela sweswi. Xana a nga kota ku endla matafula mangani? ☐

Xana ku laveka milenge yin'wana yingani leswaku a ta kota ku endla tafula rin'wana? ☐



Hetisa giridi hi ku tata tinhlamulo

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

Teacher:

Sign:

Date:

2014/05/05 5:04 PM

XIT NUM G3 B1 9781431500147.indb 124 2014/05/05 5:04 PM

56

Siku:

Hlayela hi vu-50



N'wana un'we, nkumba wun'we!

Xana ku na vana vangani? Pimanyisa, kutani u hlayela.









Vana hinkwavo exifanisweni va amukela nkumba. Xana ku na vana vangani? ____		
Pimanyisa	Hlayela	Fananisa
Xana ku na vafana vangani ☺? ____ Xana ku na vanhwanyana vangani ☺? ____		



Xana va hakela mali muni?

Gwazi  u xava 2 ya  .

U hakela R

Manana Chauke  u xava 5 ya  .

U hakela R

Mavhengele ya Thembi 

ya xava 20 ya  .

Va hakela R



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

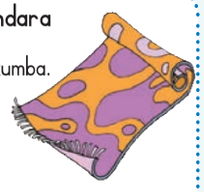


Xana swi ta teka nkarhi wo tanihi kwihi? Tirhisa khalendara

Tlilasi ya giredi ya 3 yi hlengeleta mali ku kota ku xava 4 ya mikumba.

Va hlengeleta R5 hi siku ku ringana 5 wa masiku ya vhiki.

Xana va fanele ku kuma mavhiki mangani leswaku va kota ku hlengeleta mali ya mikumba?

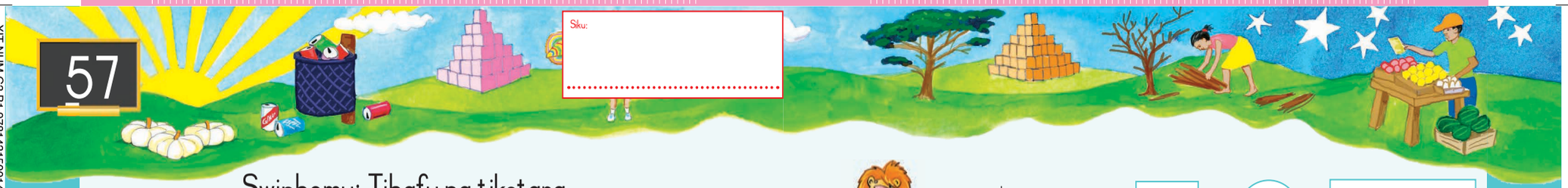




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Siku:

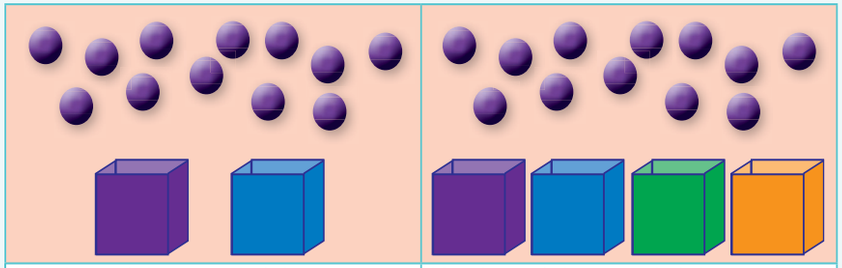
XIT NUM G3 B1 9781431500147.indb 125 2014/05/05 5:04 PM



Swiphemu: Tihafu na tikotara



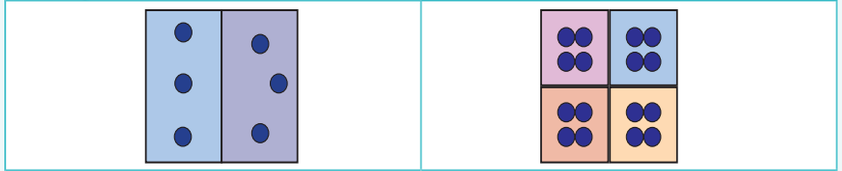
Avanyisa tibolo hi ku ringana exikarhi ka mabokisi.



Xana ku na tibolo tingani eka bokisi rin'wana na rin'wana?	Xana ku na tibolo tingani eka bokisi rin'wana na rin'wana?
Xana ku na tibolo tingani ebokisini ra xivunguvungu?	Xana ku na tibolo tingani ebokisini ra xivunguvungu?
I xiphemu muni lexi nga ebokisini ra xivunguvungu?	I xiphemu muni lexi nga ebokisini ra xivunguvungu?



Languta swifaniso kutani u hlamula swivutiso.



Xana u hlayele swirhendzevutana swingani?	Xana u hlayele swirhendzevutana swingani?
Xana $\frac{1}{2}$ ya swirhendzevutana i yini?	Xana $\frac{1}{4}$ ya swirhendzevutana i yini?
	Xana $\frac{2}{4}$ ya swirhendzevutana i yini?
	Xana $\frac{3}{4}$ ya swirhendzevutana i yini?
	Xana $\frac{4}{4}$ ya swirhendzevutana i yini?



Khalara $\frac{1}{2}$ ya xivumbeko xin'wana na xin'wana.

Khalara $\frac{1}{4}$ ya xivumbeko xin'wana na xin'wana.

Khalara $\frac{2}{4}$ ya xivumbeko xin'wana na xin'wana.

Khalara $\frac{3}{4}$ ya xivumbeko xin'wana na xin'wana.



Xiya switiritipi swa swiphemu.

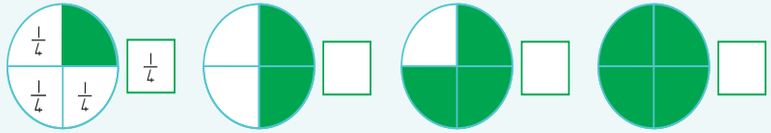


a. Xana i tihafu ($\frac{1}{2}$) tingani leti vumbaka xiheri xin'we?

Xana i tikotara ($\frac{1}{4}$) tingani leti vumbaka xiheri xin'we?

Xana i tikorata ($\frac{1}{4}$) tingani leti vumbaka hafu yin'we?

b. Languta tidayigiramu kutani u tsala xiphemu xa xiyenge lexi dzwihatiweke



c. Hi xihi xiphemu lexi nga lexikulu, $\frac{1}{2}$ kumbe $\frac{1}{4}$?



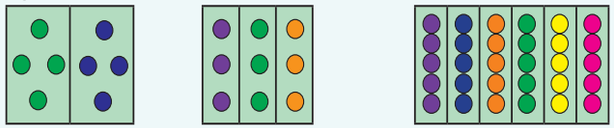
Siku:

Swiphemu: Tihafu, xa-nharhu na xa-ntsevu

Avanyisa swithinana (tisilindara) hi ku ringana exikarhi ka mabokisi.

Ntsengo wa tibolo: 12		
Xana ku na tibolo tingani ebokisini ra xivunguvungu? 6		
I xiphemu muni lexi nga ebokisini ra xivunguvungu? $\frac{1}{2}$		

Languta swifaniso kutani u hlamula swivutiso.



Xana u hlayele swirhendzevutana swingani?

Xana $\frac{1}{2}$ ya swirhendzevutana i yini?

Xana $\frac{1}{3}$ ya swirhendzevutana i yini?

Xana $\frac{2}{3}$ ya swirhendzevutana i yini?

Xana $\frac{3}{3}$ ya swirhendzevutana i yini?

Xana $\frac{1}{6}$ ya swirhendzevutana i yini?

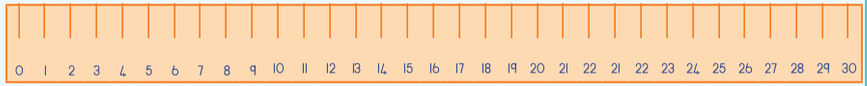
Xana $\frac{2}{6}$ ya swirhendzevutana i yini?

Xana $\frac{3}{6}$ ya swirhendzevutana i yini?

Xana $\frac{4}{6}$ ya swirhendzevutana i yini?

Xana $\frac{5}{6}$ ya swirhendzevutana i yini?





- Kombisa hafu yin'we erhuleni. Leswi swi ringana na ____ cm.
- Kombisa n'we-xa-nharhu erhuleni. Leswi swi ringana na ____ cm.
- Kombisa n'we-xa-ntsevu erhuleni. Leswi swi ringana na ____ cm.



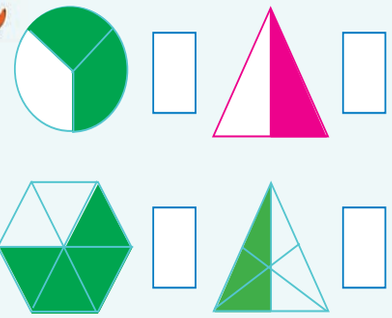
Languta switiripi swa swiphemu. Hetisa swivulwa.

1 xiheri		
$\frac{1}{2}$	$\frac{1}{2}$	
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
$\frac{1}{6}$ $\frac{1}{6}$	$\frac{1}{6}$ $\frac{1}{6}$	$\frac{1}{6}$ $\frac{1}{6}$

- Ku na ___ wa tihafu eka xiheri.
- Ku na ___ wa xa-nharhu eka xiheri.
- Ku na ___ wa xa-ntsevu eka xiheri.
- Ku na ___ wa xa-ntsevu eka hafu .
- Ku na ___ wa tihafu eka xiheri.



Tsala xiphemu xa xiyenge lexi dzwihatiweke.



Bana xirhendzevutana eka xiphemu lexikulu.

a. $\frac{1}{2}$ $\frac{1}{3}$

b. $\frac{1}{2}$ $\frac{1}{6}$

c. $\frac{1}{2}$ $\frac{2}{6}$

Teacher:
Sign:
Date:

XIT NUM G3 B1 9781431500147.indb 126 2014/05/05 5:04 PM

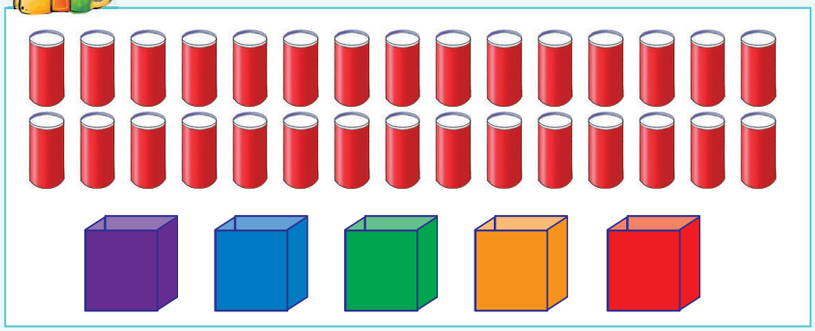
XIT NUM G3 B1 9781431500147.indb 127

59

Siku:

Swiphemu: xa-ntlhanu

Avanyisa swithinana eka 5 wa mabokisi.



- Eka $\frac{1}{5}$ ya mabokisi ku na 6 wa swithinana.
- Eka $\frac{2}{5}$ ya mabokisi ku na ____ wa swithinana.
- Eka $\frac{3}{5}$ ya mabokisi ku na ____ wa swithinana.
- Eka $\frac{4}{5}$ ya mabokisi ku na ____ wa swithinana.
- Eka $\frac{5}{5}$ ya mabokisi ku na ____ wa swithinana.

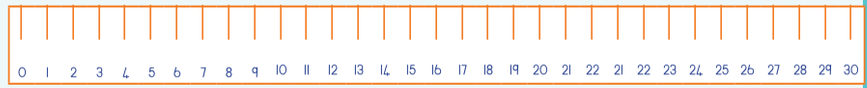
Languta swifaniso kutani u hlamula swivuztiso.



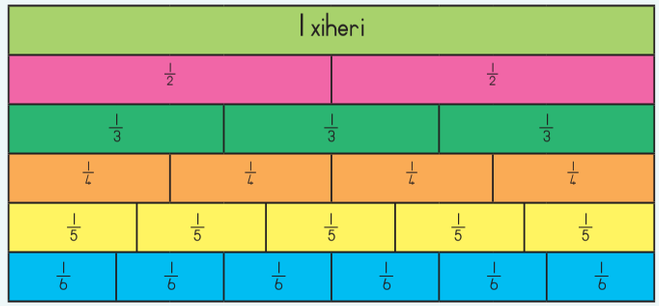
- Xana ku na tichokoleti tingani ebokisini? ____
- n'we-xa-ntlhanu ya tichokoleti yi ringana na ____
- mbirhi-xa-ntlhanu ya tichokoleti yi ringana na ____
- nharhu-xa-ntlhanu ya tichokoleti yi ringana na ____
- mune-xa-ntlhanu ya tichokoleti yi ringana na ____
- ntlhanu-xa-ntlhanu ya tichokoleti yi ringana na ____
- Hi siku ra 1 ndzi dyile $\frac{1}{5}$ ya tichokoleti. Xana ku sale tichokoleti tingani? ____
- Hi siku ra 2 ndzi dyile $\frac{1}{5}$ ya tichokoleti. Xana ku sale tichokoleti tingani? ____

Khalara switirhisiwa swo pima.

a.



Languta switiripi swa swiphemu kutani u hlamula swivutiso.



Bana xirhendzevutana eka leyikulu kumbe leyintsongo

a. $\frac{1}{2}$ i yikulu/yintsongo eka $\frac{1}{4}$.

b. $\frac{1}{3}$ i yikulu/yintsongo eka $\frac{1}{2}$.

c. $\frac{1}{5}$ i yikulu/yintsongo eka $\frac{1}{6}$.

d. $\frac{1}{6}$ i yikulu/yintsongo eka $\frac{1}{3}$.

e. $\frac{3}{6}$ i yikulu/yintsongo eka $\frac{2}{5}$.

Teacher:
Sign:
Date:

2014/05/05 5:04 PM

XIT NUM G3 B1 9781431500147.indb 128 2014/05/05 5:04 PM

Siku:

Swilo swa 3-D

Hlayela mabokisi (tiphirizimu). ☐

Hlayela tibolo (swirhendzevutana) ☐

Hlayela tisilindara. ☐

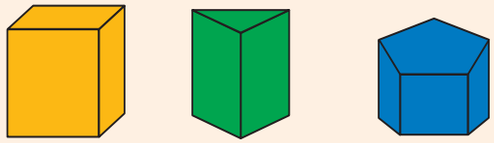


Lama i mabokisi hinkwawo.

Tirhisa maphepha ya switsemiwa swa 3 na 4 ku swi endla.



Vuandlalo bya xiphepherhele byin'wana na byin'wana byi vitaniwa emahlweni. Damarheta xikandza lexi n'wanyitelaka emahlweni ya mabokisi. Xana u damarhetile swikandza swingani eka:



xikwere ☐ phirizimu ☐ heksagoni ☐

Xana tinghohe ta phirizimu i to ringanela kumbe i ta njhikwa? ☐

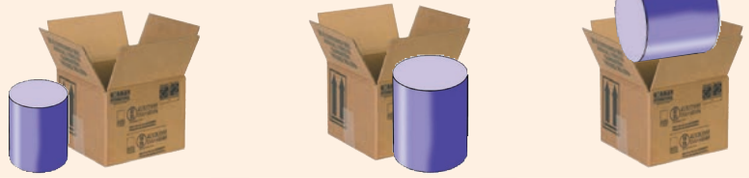
Sweswi endla silindara hi phepha ra xitsemiwa xa 4.

Xana tinghohe ta silindara i to ringanela kumbe i ta njhikwa? ☐

Tirhisa swilo swa wena ku vumba leswi landzelaka.

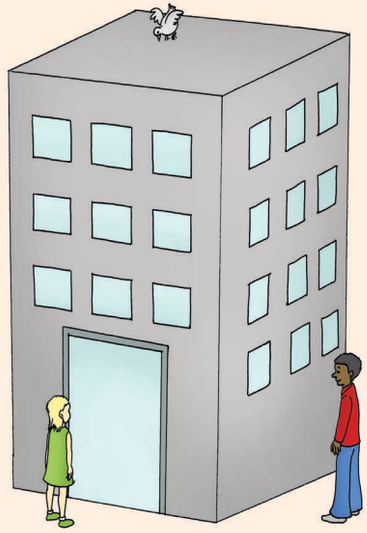
Hlamusela xiyimo xa silindara u tirhisa marito ya.

etlhelo | emahlweni | ehenhla



☐ ☐ ☐

Tirhisa marito lama nga laha hansi ku hetisa swivulwa.



Nhwanyana u languta _____ ya muako.

Wanuna u languta _____ ra muako.

Xinyenyana xi languta _____ ka muako.

tlhelo | ehenhla | emahlweni

Teacher:
Sign:
Date:

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

Siku:

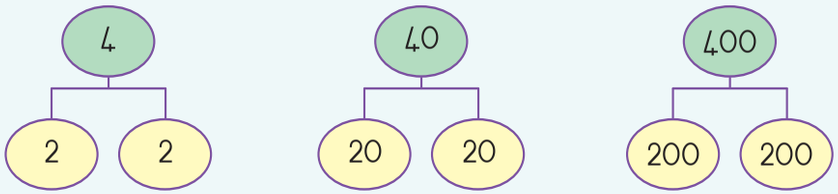
XIT NUM G3 B1 9781431500147.indb 129



Ku andzisa kambirhi na hafu

Xana wa ha tsundzuka?	2 i hafu ya 4	4 i 2 yi andzisiwe kambirhi
	20 i hafu ya 40	40 i 20 yi andzisiwe kambirhi
	200 i hafu ya 400	400 i 200 yi andzisiwe kambirhi

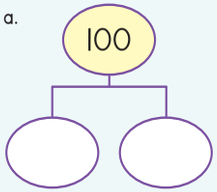
Tsundzuka! Hi nga kombisa leswi hi xifaniso



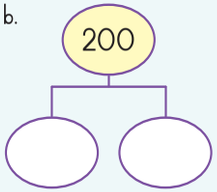


Ku kuma tihafu

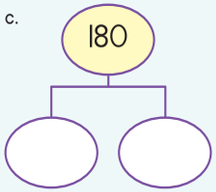
a.



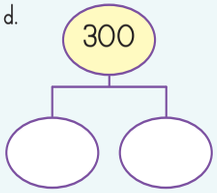
b.



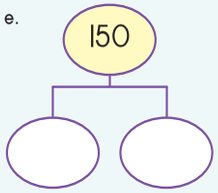
c.



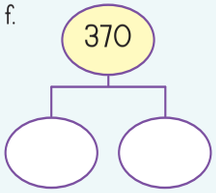
d.



e.

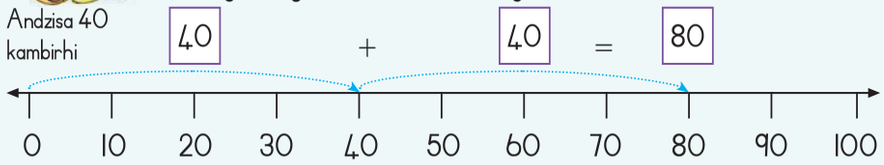


f.

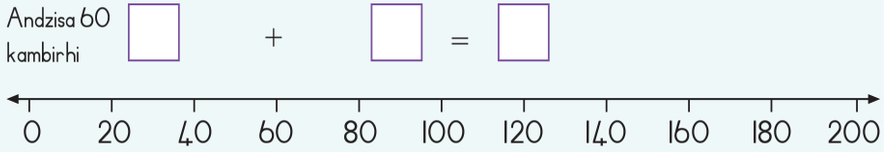


Andzisa nomboro kambirhi u tirhisa ndzhati wa mitsengo. U nyikiwe xikombiso xo sungula.

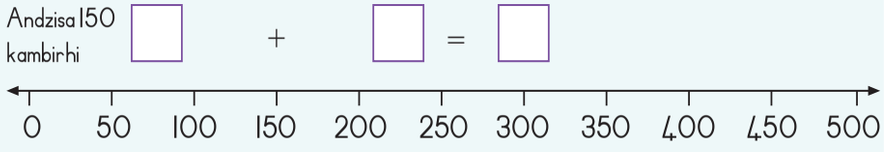
Andzisa 40 kambirhi



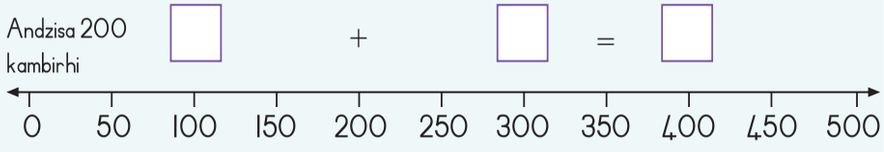
Andzisa 60 kambirhi



Andzisa 150 kambirhi



Andzisa 200 kambirhi





Hetisa leswi landzelaka

a. Andzisa 100 kambirhi	200
b. Andzisa 150 kambirhi	
c. Andzisa 120 kambirhi	
d. Andzisa 200 kambirhi	
e. Andzisa 170 kambirhi	



Hetisa leswi landzelaka

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



2014/05/05 5:04 PM

XIT NUM G3 B1 9781431500147.indb 130 2014/05/05 5:04 PM

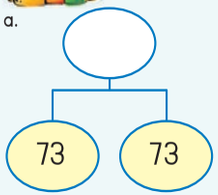
62

Siku:

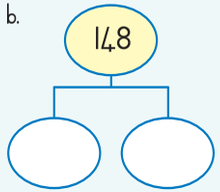
Ku andzisa kambirhi na ku hafula kun'wana

Ku kuma ku andzisa kambirhi kumbe tihafu

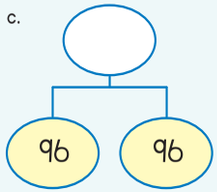
a.



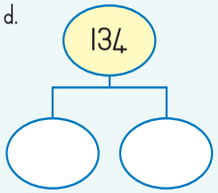
b.



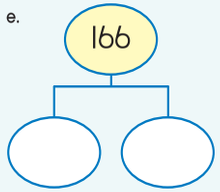
c.



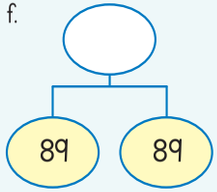
d.



e.



f.



Ku hlayisela bayisikiri

Peter u hlayisa R25 hi vhiki ku kota ku xava bayisikiri. Xana u fanele ku hlayisa mali eka mavhiki mangani?

Nhlamulo: _____ wa mavhiki

Mbhukuto R450

Nxavo wo hungutiwa hi hafu: A wu ri R900

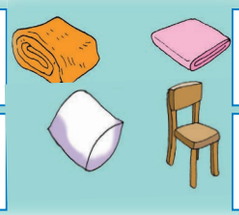


Ku va eka mbhukuto

Swixavisiwa hinkwaswo swi le ka mbhukuto wa hafu ya nxavo.
Tsala nxavo wa mbhukuto etlhelo ka xixavisiwa xin'wana na xin'wana.

a. Mikumba R190
Nxavo wa mbhukuto _____

b. Malakani R154
Nxavo wa mbhukuto _____



c. Xikhigelo R54
Nxavo wa mbhukuto _____

d. Switulu R220
Nxavo wa mbhukuto _____

Xana i tirhandi tingani?


R135

Musa u lava hembe. O va na hafu ya ntsengo ntsena.
Xana wa ha fanele ku lava mali muni? R_____


R78,50

Tintanghu ta Peter ti durha kambirhi ku ri na leti.
Xana tintanghu ta Peter ti durha mali muni? R_____

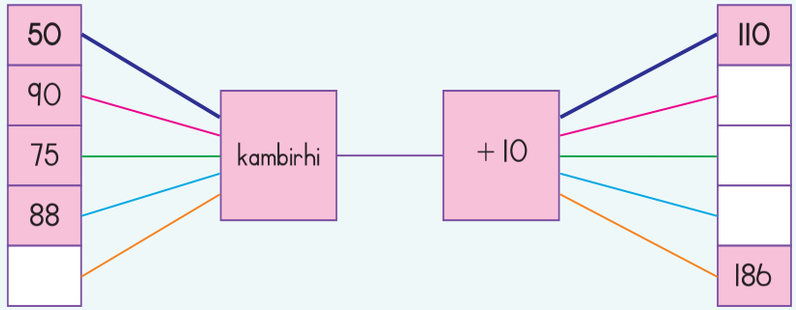

R97

Rhoko ya Phindi yi kambirhi eka nxavo wa leyi.
Xana rhoko ya Phindi yi durha mali muni? R_____

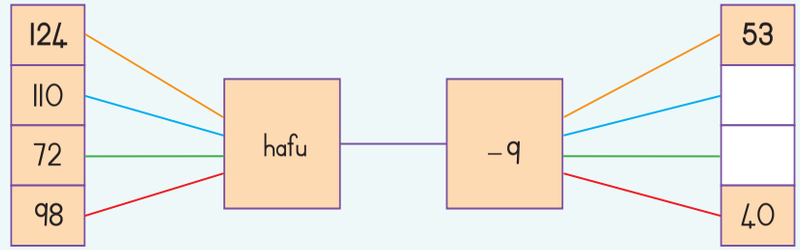
Xana i yini xi nghenaka? Xana i yini xi humaka?

Landzelela xikombiso. Tata tinomboro leti siyiweke.

a.



b.



Teacher:
Sign:
Date:

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

Siku:

XIT NUM G3 B1 9781431500147.indb 131

63

Siku:

Endla mitlawa u tlhela u katsa

Ku vumba ntlawa wa vana

Manana Ndaba u lava ku ava tlilasi hi mitlawa ya tisayizi leti ringanaka ku endlela mitlangu ya le handle ka muako. Xo sungula u va ntlawahata hi 4 wa swipanu.



a. Hlayela vana. ____

b. Xana u endlile swipanu swingani? ____

Kambisisa. Ringanisa. Lulamisa.

c. Kombisa tindlela letin'wana hinkwato to endla mitlawa ya vana leyi ringanaka.

_____

_____

_____

_____

Xana ku na swiambalo swingani?



Phindi u na 5 wa tihembe ta mihlovohlovo na 5 wa swiburukwana swa mihlovohlovo.

Xana i swiambalo swingani swo hambana leswi a nga swi endlaka hi ku tirhisa mihlanganelo yo hambana ya mihlovo? ____

Xikombiso: Hembe ya wasi/xiburukwana xa wasi. Hembe ya wasi/xiburukwana xa xilamula

Tsala letere kumbe maletere manharhu yo sungula ya sungula ra muhlovo wun'wana na wun'wana. Kombisa swiambalo hinkwaswo leswin'wana leswi nga endliwaka.

_____

_____

_____

_____

_____

_____

Vhumba: Ku ta humelela yini loko Phindi a ri na 6 wa mihlovo yo hambana ya tihembe na swiburukwana?

Xana i swiambalo swingani leswi a nga swi endlaka? ____

Kambisisa. Ranganisa. Lulamisa.

Teacher:
Sign:
Date:

2014/05/05 5:04 PM

XIT NUM G3 B1 9781431500147.indb 132



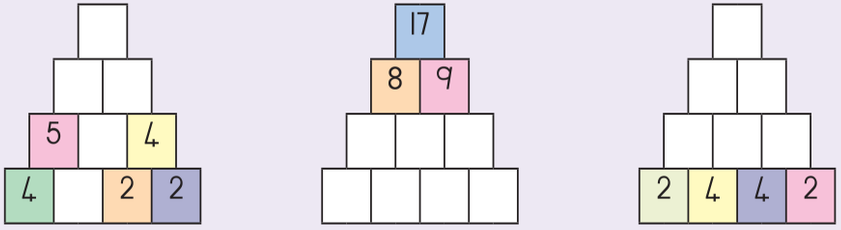
Ku tiphina hi metse



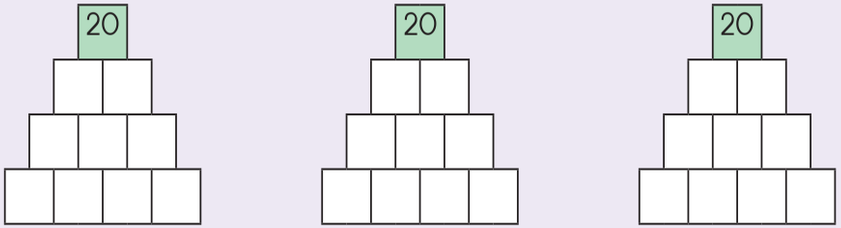
Lava nawu

Tirhisa nawu ku kuma tinomboro leti siyiweke.

Sweswi endla leswi



Aka ku fika eka 20 hi 3 wa tindlela to hambana





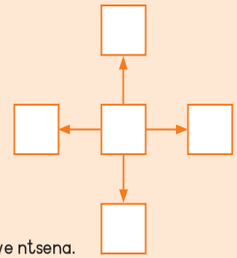
Ntlhontlho



Tirhisa tinomboro ta 1, 2, 3, 4 na 5.

3 wa tinomboro eka rixaxa rin'wana na rin'wana ri fanele ku hlangana ri nyika 10.

Nawu: Tirhisa nomboro yin'wana na yin'wana kan'we ntsena.





Ku kuma tinomboro

a. Nawu: Tinomboro eka rixaxa rin'wana na rin'wana ti fanele ku hlangana ti va 16.

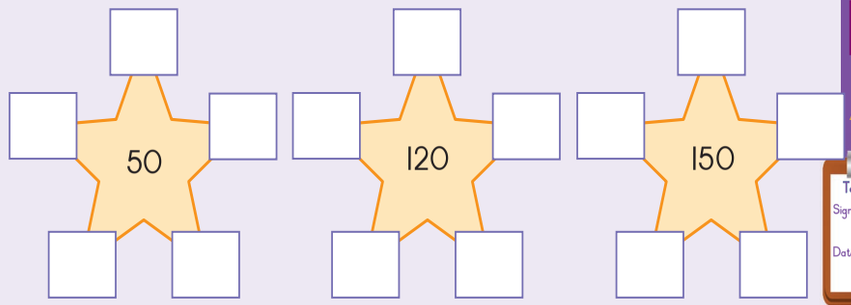
2	5	3	6
			2
		2	

b. Nawu: Ku na 3 wa tinomboro, to hingakanya na to ya ehansi. Hinkwato tinomboro ti fanele ku hlanganisiwa kutani ti nyika ntsengo lowu fanaka.

2	7	6
9		1
	3	8

23	28	21
12		26
	10	

c. Nawu: Tsala 5 wa tinomboro tin'wana na tin'wana leti hlanganaka ti nyika nomboro ya le xikarhi enyeletini.



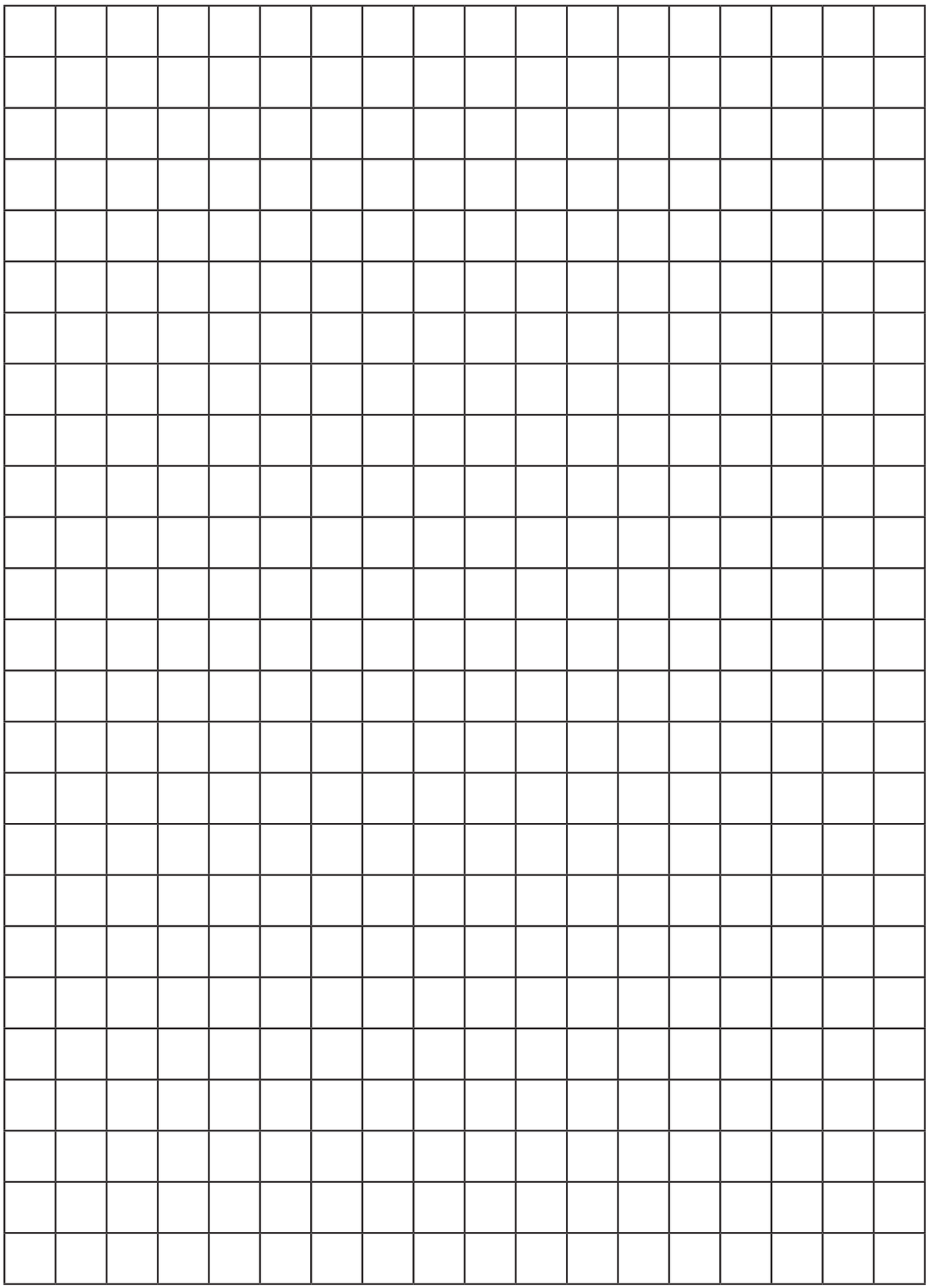
2014/05/05 5:04 PM

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

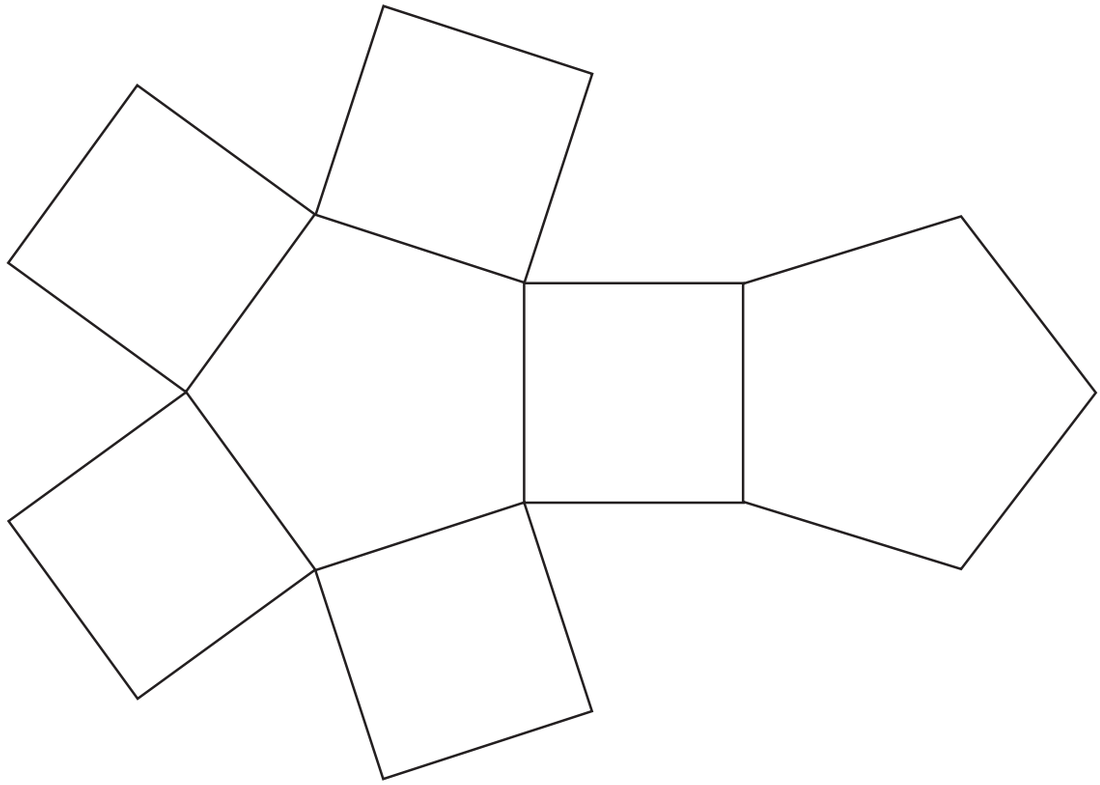
XIT NUM G3 B1 9781431500147.indb 133 2014/05/05 5:04 PM

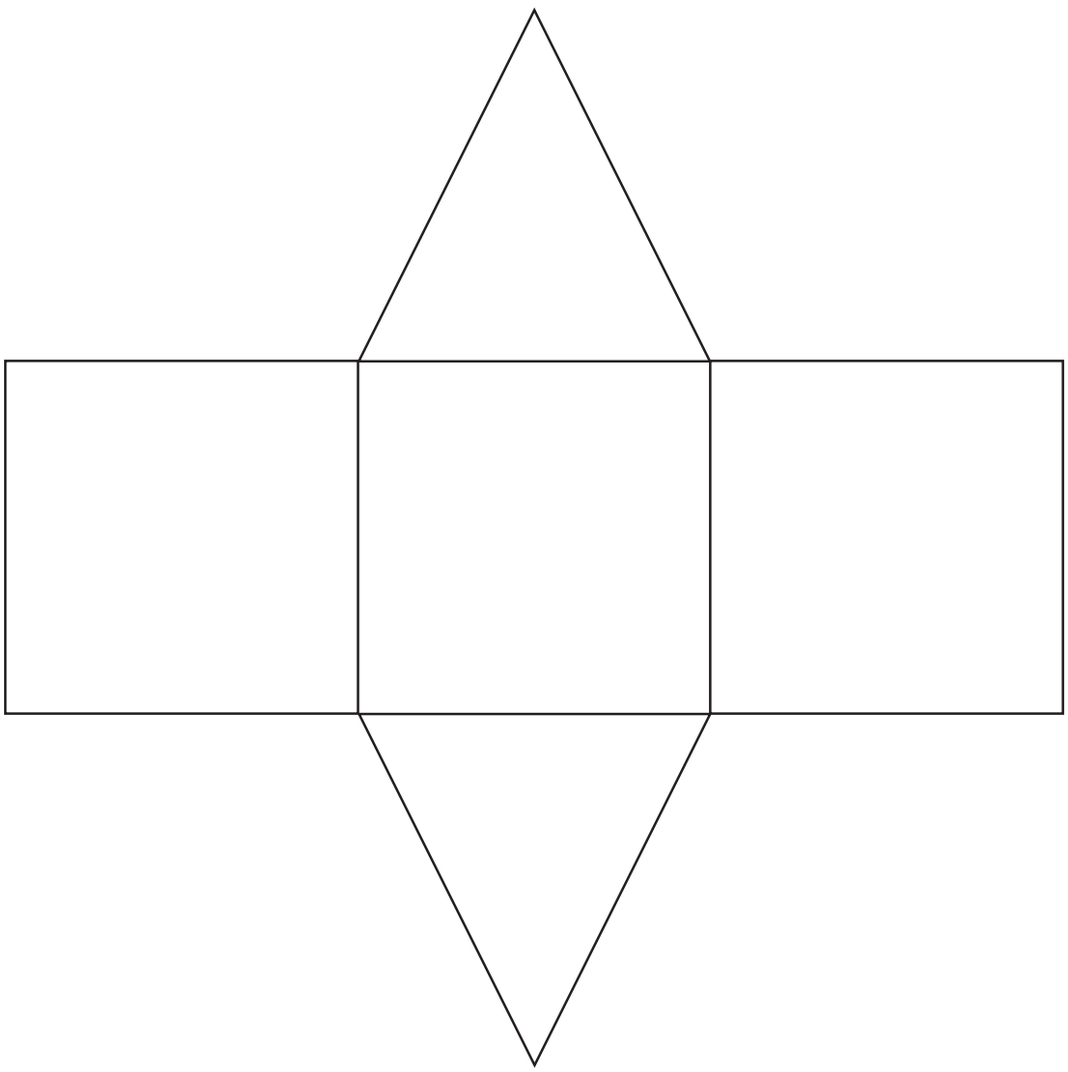
1	0	0	1	0	1
2	0	0	2	0	2
3	0	0	3	0	3
4	0	0	4	0	4
5	0	0	5	0	5
6	0	0	6	0	6
7	0	0	7	0	7
8	0	0	8	0	8
9	0	0	9	0	9

XIT NUM G3 B1 9781431500147.indb 134 2014/05/05 5:04 PM

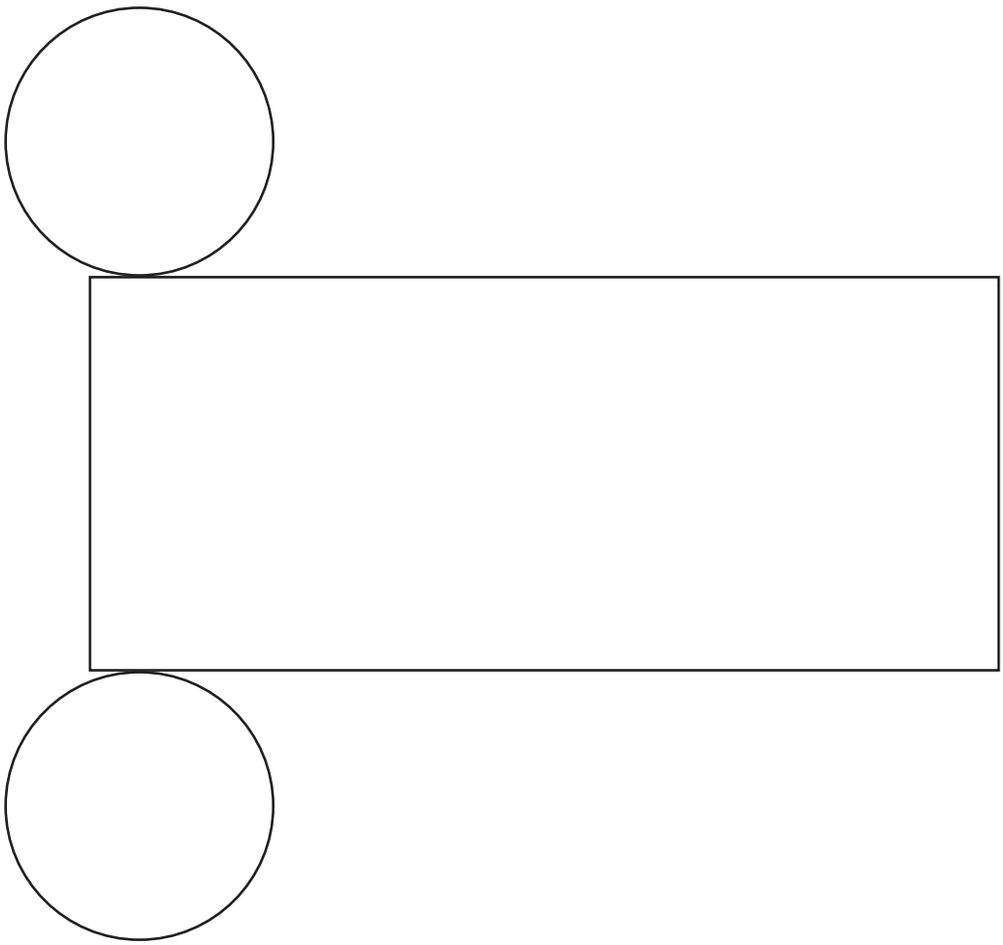


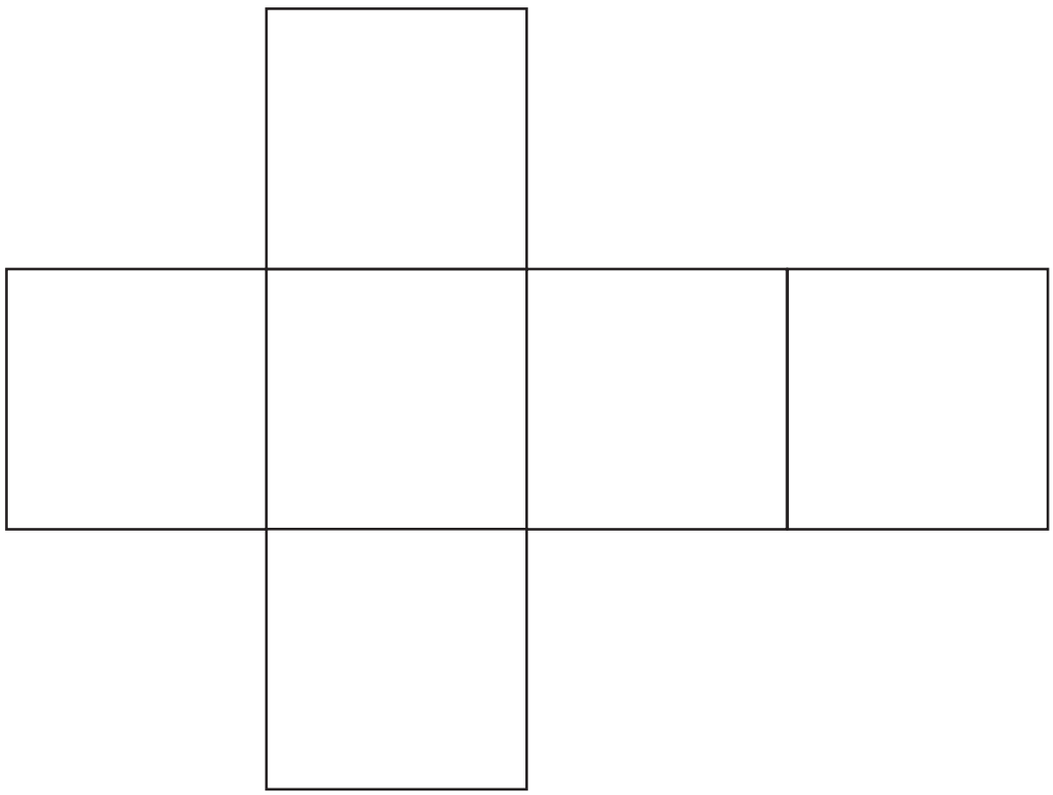
XIT NUM G3 B1 9781431500147.indb 136 2014/05/05 5:04 PM





ENG NUM G3 B1 9781431500048 Cut-outs_LR.indd 134 2014/04/29 3:06 PM





ENG NUM G3 B1 9781431500048 Cut-outs_LR.indd 136 2014/04/29 3:06 PM