

## MATHEMATICS IN XITSONGA

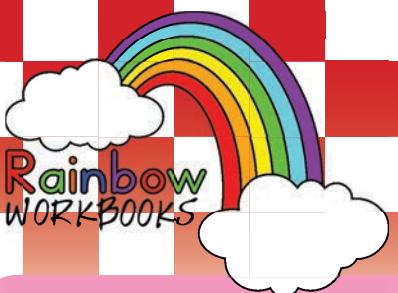
GRADE 3 – BOOK 1

TERMS 1 & 2

ISBN 978-1-4315-0014-7

THIS BOOK MAY NOT BE SOLD.

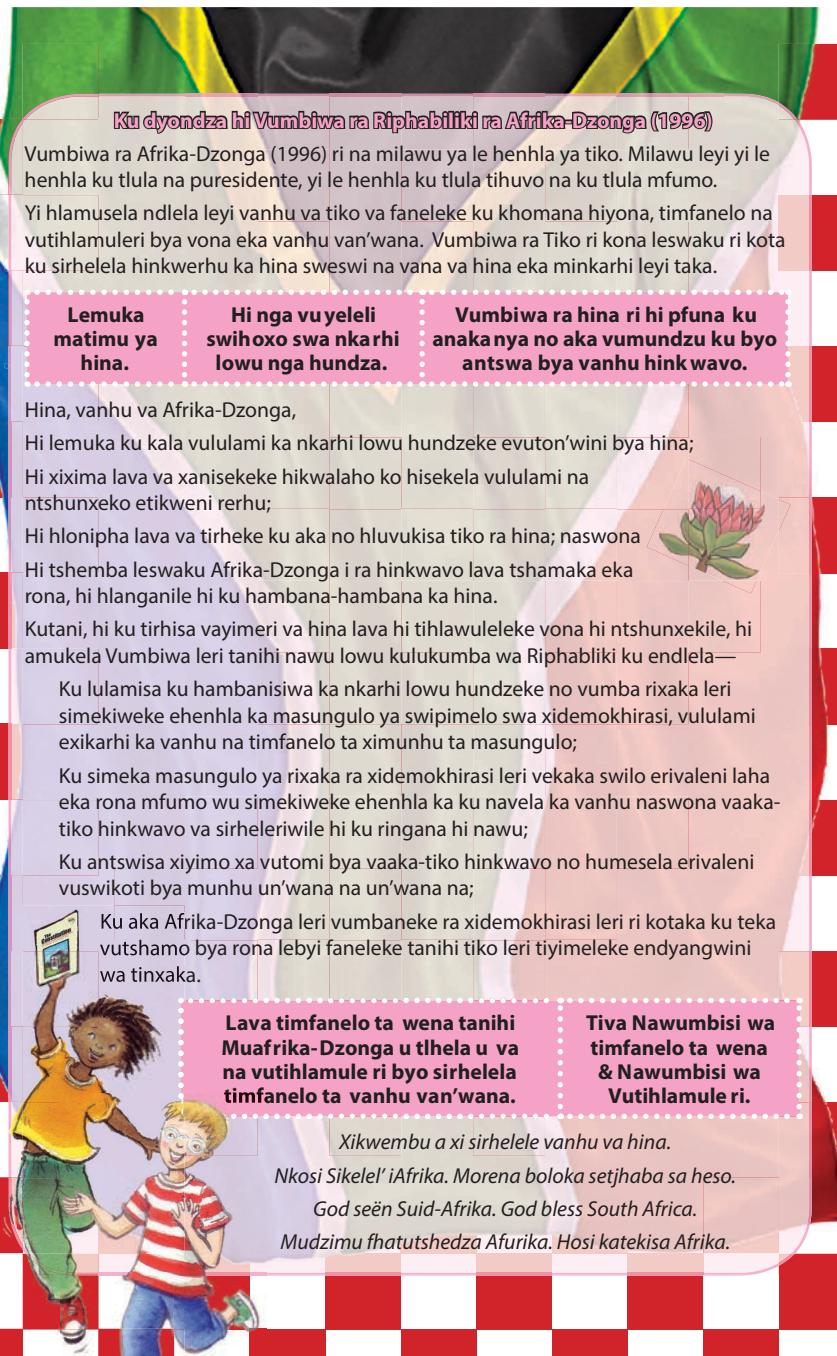
**8th Edition**



ISBN 978-1-4315-0014-7



9 781431 500147



Lava timfanelo ta wena tanahi Muafrika-Dzonga u thela 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.

MATEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 1

ISBN 978-1-4315-0014-7

1 2 3 4



# 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 hlawa mali	18
9	Tipatironi	20
10	Tibolo, mabokisi na tisilindara	22
II	Dirowa, nyika vito u tlhela u ringanisa swivumbeko swa 2-D	24
I2	Nkarhi wa famba	26
I3	Ku pima ku leha	28
I4	Vundzeni	30
I5	Ku tirha hi ntiko	32
I6	Ku lawula switiviva	34
I7	Ringanisa no longoloxa tinomboro	36
I8	Nkoka wa ndhawu ku fika eka 99	38
I9	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 xinkhubuya	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

Nomboro	Nhlokomhaka	Pheji
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	Ndingano	110
49	Ku aka ku fika eka 500	112
50	Ku andzisa no avanyisa (I0)	114
51	Hlayela hi vu-2	116
52	Pheyihla 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-ntlhau	132
60	Swilo swa 3-D	134
61	Ku andzisa kambirhi na hafula	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 1	
	Xitsemiwa 2	



Manana Angie Motshekga,  
Holobye wa Dyondzo ya  
Masungulo



Nkulukumba Enver Surty,  
Xandla xa Holobye wa  
Dyondzo ya Masungulo

Tibuku leti to tirthela 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, Nkulukumba Enver Surty.

Tibuku to tirthela ta Rainbow ti vumba xiyenge xin'wana xa ntawa wa micingiriko ya Ndzwalo 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 Ndzwalo yi swi kota ku endla leswaku tibuku leti to tirthela, ti kumeka hi tindzimi hinkwato ta ximfumo handle ko hakeleriwa.

Hi tsheomba leswaku tibuku leti ti ta pfuna vadyondzisi eka micingiriko ya vona yo dyondzisa ya masiku hinkwawo no tiyisia 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 mudyondzisi a faneleke ku endla swona.

Hi ni ntshembo wa leswaku vana va ta tiphina no tsakela ku tirha micingiriko 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 humeleta, wena na vadyondzi va wena eku tirhiseni tibuku leti to tirthela.



Published by the Department of Basic Education  
222 Struben Street  
Pretoria  
South Africa  
© Department of Basic Education  
Eighth edition 2018

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



Matematiki

HI XITSONGA

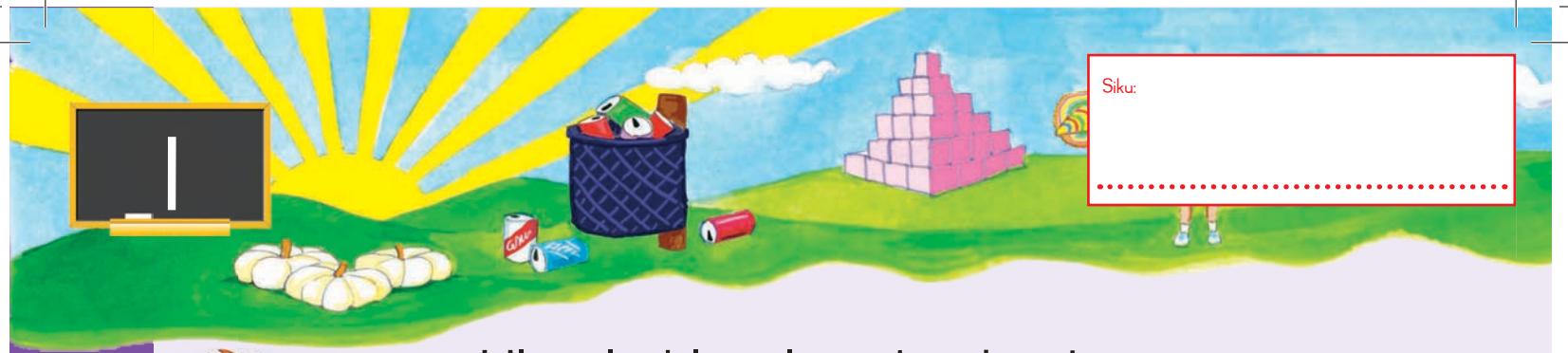
Buku leyi i ya:



XITSONGA

Buku ya

I



Kotara ya!

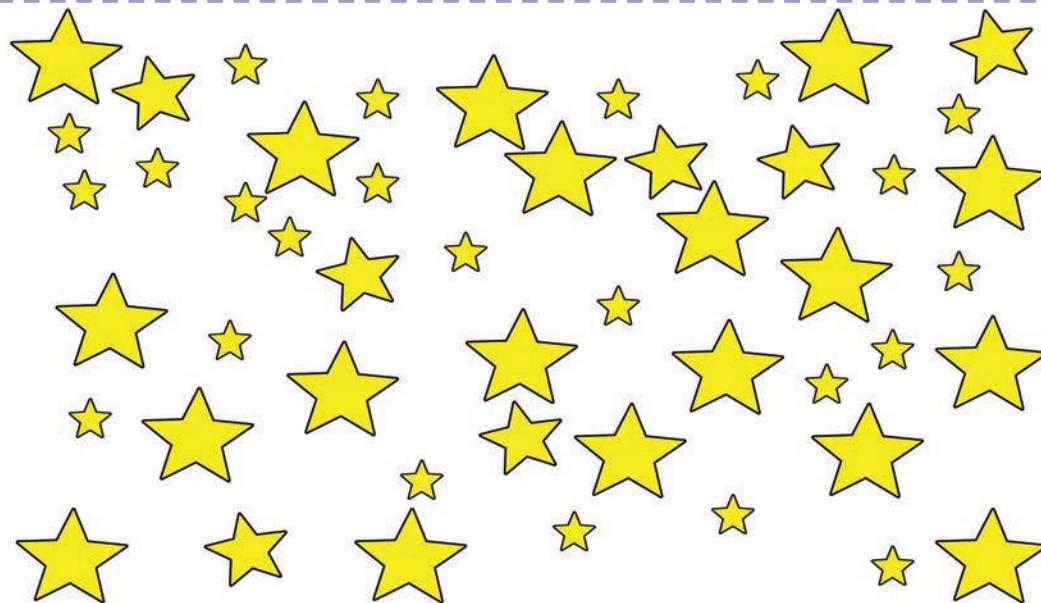


## Hlayela, hlawula no kombisa!

I tinyeleti tingani?

Siku:

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.

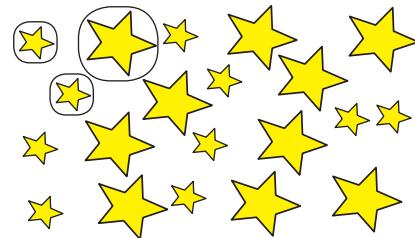
Vito				
Mpimanyiso				
Nhlayo leyi hlayeriweke				
Ku hambana exikarhi ka mpimanyiso na ku hlayela ka n'wina				



Tindlela to hlayela. Hi pfuneni ku ti tsala ehansi.



Ndzi hlayele hi vun'we.



I, 2, 3, \_\_\_\_\_



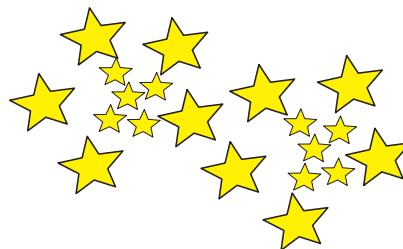
Ndzi hlayele  
hi vu-2.



Ndzi hlayele  
hi vuntlhanu.



5, \_\_\_\_\_



Ndzi hlayele  
hi vukhume.



### Tsalani swivulwa swa tinomboro

Tsala swivulwa swimbirhi ku nyika ntsengo wa ttinyeleti 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

$$\star + \star = \underline{\quad}$$

$$\star + \star = \underline{\quad}$$

naswona tanahi swivulwa swa tinomboro.

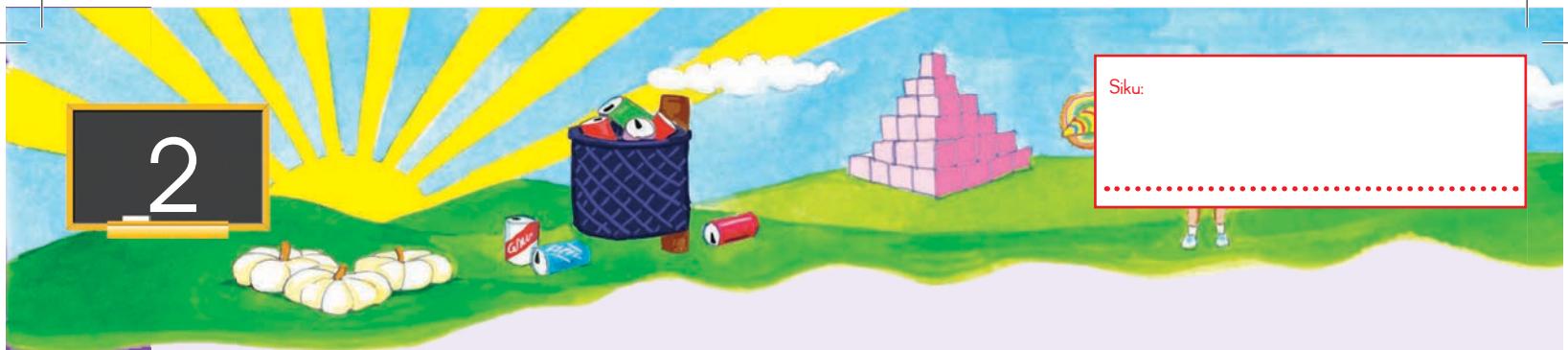
$$\underline{\quad} + \underline{\quad} = \underline{\quad} \text{ kumbe } \underline{\quad} + \underline{\quad} = \underline{\quad}$$

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



11 12 13 14 15 16 17 18 19 20

2



Siku:

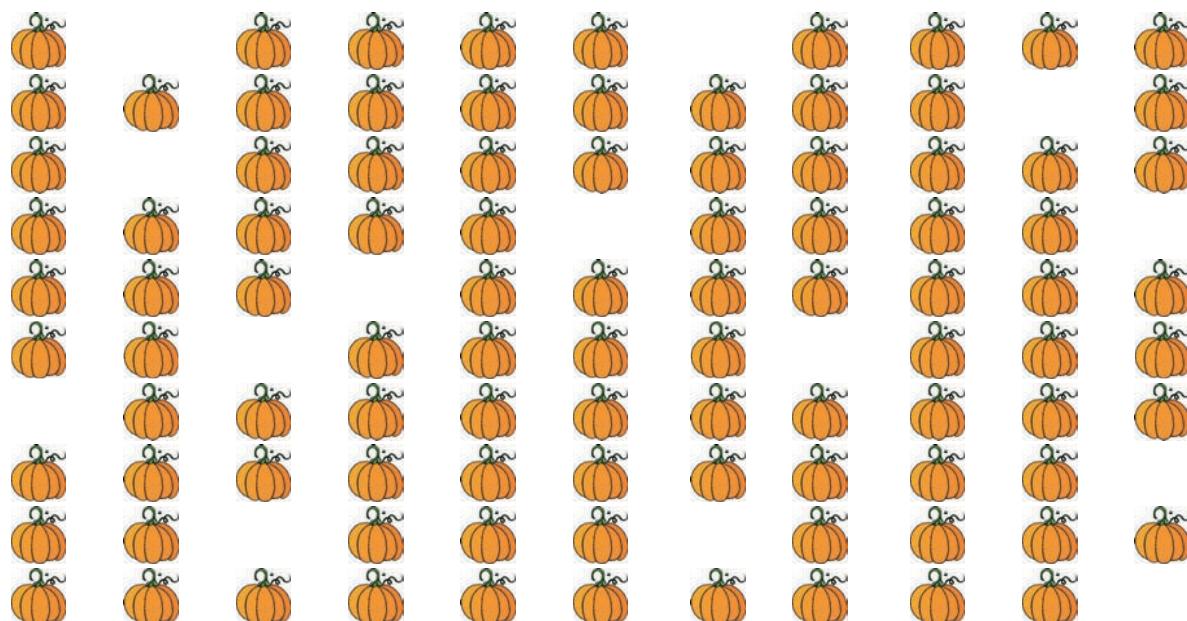
Kotara ya |



## 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? \_\_\_\_\_



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

Hetisa swivilwa swa tinomboro.

Xikombiso:

$$10 + 10 + 10 + 10 = 40 \rightarrow \text{ntsengo wa } 4 \text{ wa mintlawa ya } 10 = 40 \rightarrow 4 \times 10 = 40$$



a.  $10 + 10 + 10 = \underline{\hspace{2cm}}$

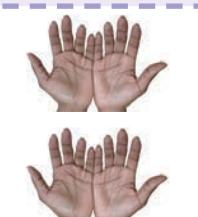
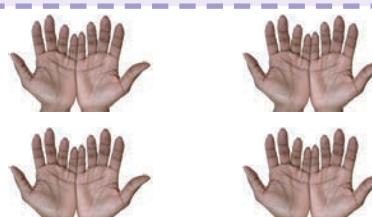
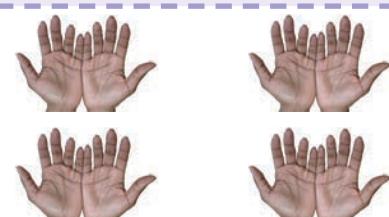
$$\underline{\hspace{2cm}} \text{ wa mintlawa ya } 10 = \underline{\hspace{2cm}} \rightarrow \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

b.  $10 + 10 + 10 + 10 + 10 + 10 + 10 = \underline{\hspace{2cm}}$

$$\underline{\hspace{2cm}} \text{ wa mintlawa ya } 10 = \underline{\hspace{2cm}} \rightarrow \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



**Swandla na tintiho**



Xana i swandla swingani?       

Xana i tintiho tingani?       

Tsala nhlamulo ya wena hi 2 wa tindlela.

$$\underline{\hspace{2cm}} \text{ wa mintlawa ya } 10 = \underline{\hspace{2cm}} \text{ na } \underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}}$$



11 12 13 14 15 16 17 18 19 20

3a

Siku:

Kotara ya |



## Tinomboro eka giridi

Ku vulavula hi tinomboro

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

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



- Tsala nomboro leyi siyiweke eka buloko yin'wana na yin'wana ya wasi.
- Tsala tinomboro letin'wana.
- Xana tinomboro ta xitshopana i ta njhani?



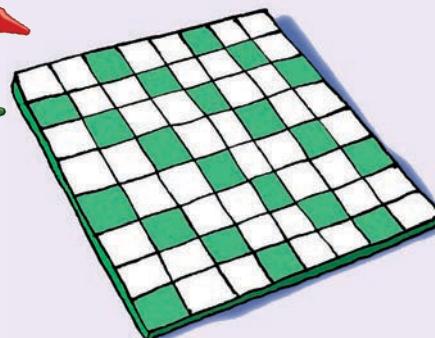
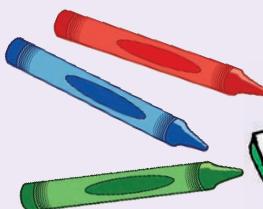
Tsala tinomboro hi marito.

90	makumekaye	41	
77		56	
14		65	



Ku hlayela no khalara

Tilulamisele ku hlayela muhlovo!



I	2	3	4	5	6	7	8	9	10
II	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

I	2	3	4	5	6	7	8	9	10
II	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

I	2	3	4	5	6	7	8	9	10
II	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.



11 12 13 14 15 16 17 18 19 20

3b

Siku:

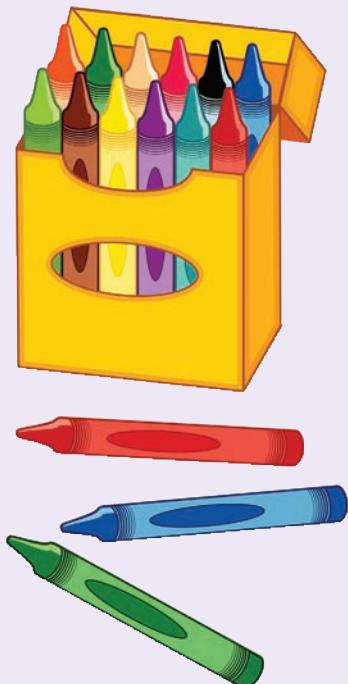
Kotara ya |

## Tinomboro eka giridi (ku yisa emahlwени)



Ku lava tipatironi

I	2	3	4	5	6	7	8	9	10
II	12	13	14	15	16	17	18	19	20
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50
5I	52	53	55	55	56	57	58	59	60
6I	62	63	64	65	66	67	68	69	70
7I	72	73	74	75	76	77	78	79	80
8I	82	83	84	85	86	87	88	89	90
9I	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.

---

---

---

---

---



## 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



4



Siku:

Kotara ya I



## Nkoka wa ndhawu

Ku kombisa tinomboro ta wena

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

19

43

69

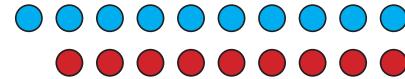
54

35

10  
q



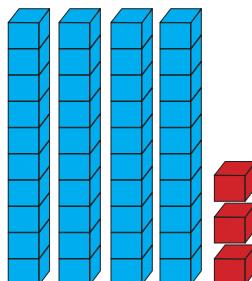
19



10  
q

$$10 + 9 = 19$$

43



10  
10  
10  
10  
3

$$40 + 3 = 43$$

54

35

69

10

1 2 3 4 5 6 7 8 9 10



## Tsala tinomboro leti

Hi ku endlele yo sungula.

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

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

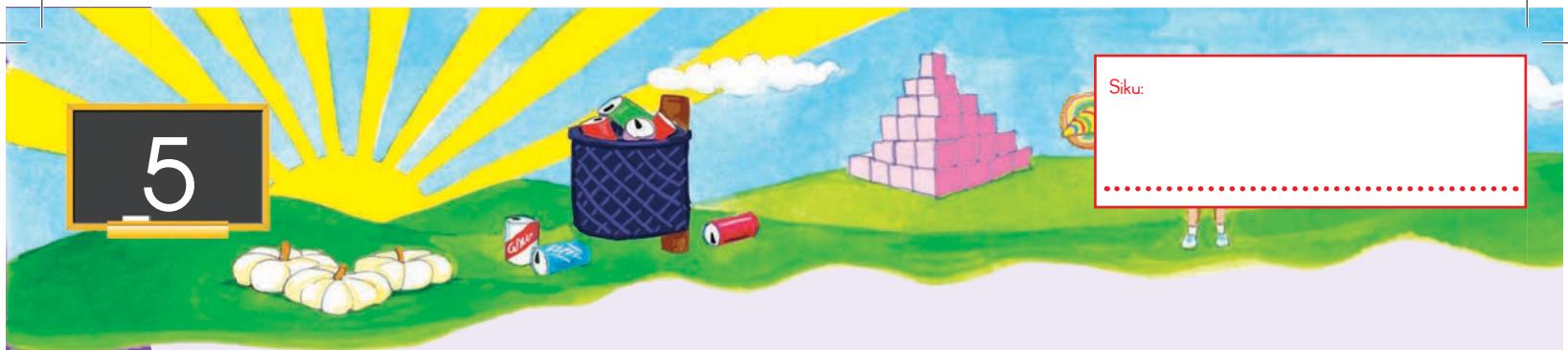


Tsala tinomboro ta ntlanu to sungula etafuleni laha henhl, hi nonganoko wo suka eka leyitsongo swinene ku ya eka leyikulu swinene.

_____;	_____;	_____;	_____;	_____;
--------	--------	--------	--------	--------



5



Siku:

.....

## Ku hlanganisa na ku susa



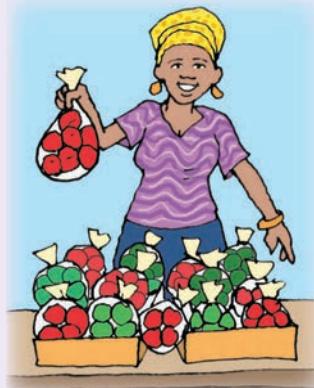
### Xitolo xa Lebo

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 tanahi xivulwa xa tinomboro.

$$\underline{19} - \underline{13} = \underline{\quad}$$



Tsala xivulwa xin'wana xa tinomboro ku kombisa nhlamulo leyi fanaka.

$$19 - 9 = 6 \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad}$$



### Ntoloveto wo vuyelela tinomboro

Tsala tinhlamulo.

$$1 + 2 = 3$$

Tirhisa ...  
+ - =

$10 + 5 =$ <input type="text"/>	$11 + 6 =$ <input type="text"/>	$14 - 9 =$ <input type="text"/>	$14 - 8 =$ <input type="text"/>
$11 + 5 =$ <input type="text"/>	$17 + 2 =$ <input type="text"/>	$19 - 7 =$ <input type="text"/>	$14 - 5 =$ <input type="text"/>
$12 + 6 =$ <input type="text"/>	$3 + 13 =$ <input type="text"/>	$16 - 5 =$ <input type="text"/>	$16 - 13 =$ <input type="text"/>
$17 + 2 =$ <input type="text"/>	$4 + 15 =$ <input type="text"/>	$15 - 10 =$ <input type="text"/>	$19 - 7 =$ <input type="text"/>



### Mindyangu ya tinomboro

5  9  14

Hi leswi swikombiso swa ndyangu wa nomboro leyi.

$$9 + 5 = \underline{14}$$

$$5 + 9 = \underline{14}$$

$$\underline{14} - 9 = 5$$

$$\underline{14} - 5 = 9$$



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 t.a endla  
leswi fanaka hi 12.

12

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



11 12 13 14 15 16 17 18 19 20

6

Siku:

Kotara ya!

## Ku andzisa kambirhi na tihafu

Xana wa tsundzuka?

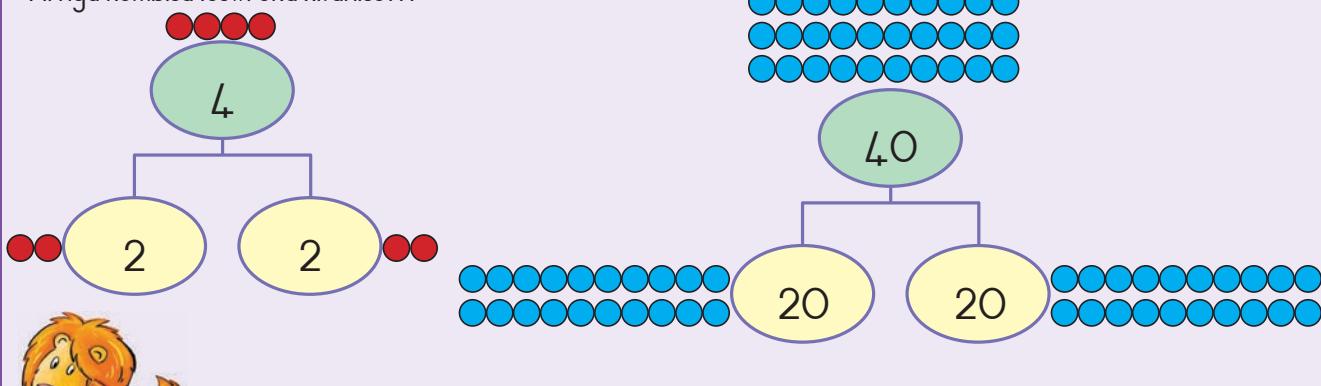
2 i hafu ya 4

20 i hafu ya 40

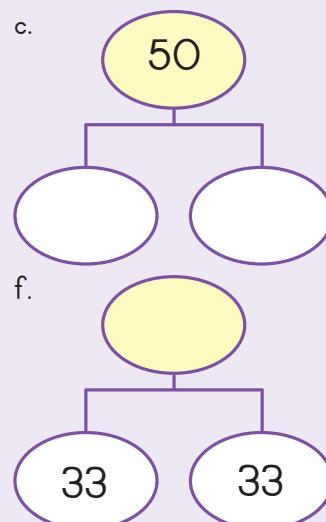
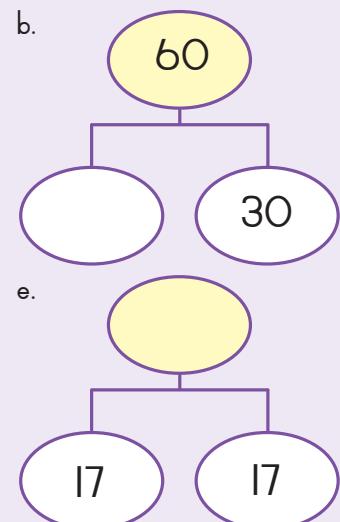
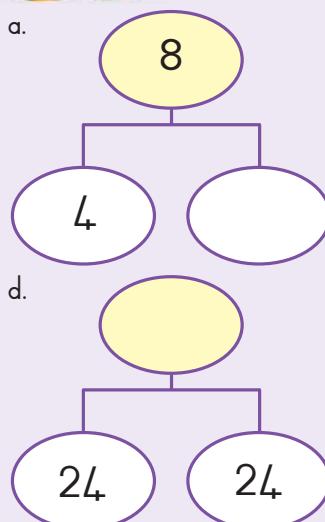
4 i 2 yi andzisiwe kambirhi

40 i 20 yi andzisiwe kambirhi

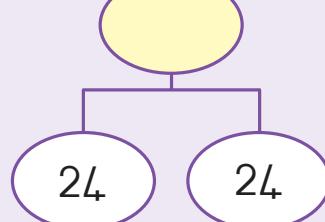
Hi nga kombisa leswi eka xifaniso...



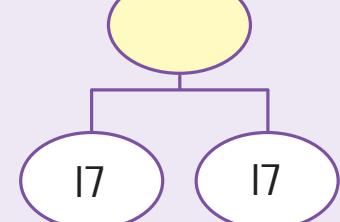
Kuma mitsengo ya ku andzisa kambirhi kumbe tihafu



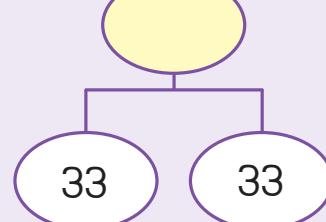
d.



e.



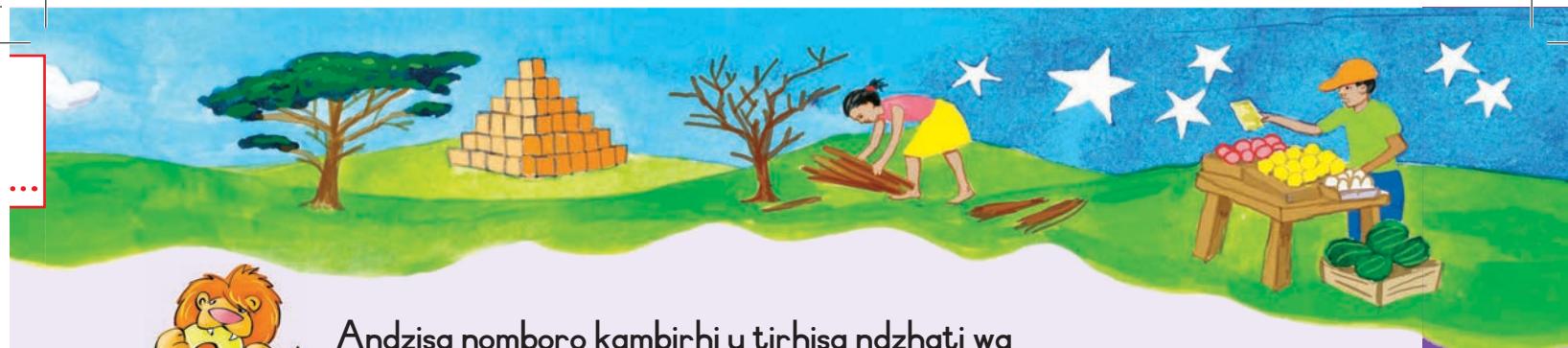
f.



Ntlhontlhlo

Kuma hafu yin'we ya 3.

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



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

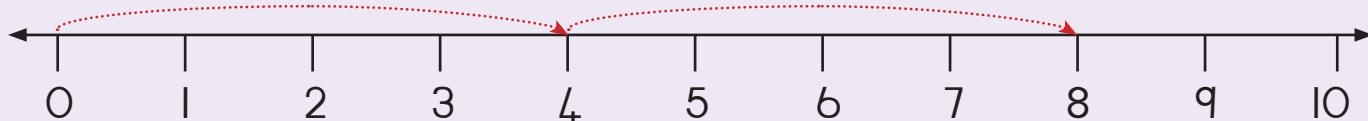
a. Andzisa 4 kambirhi

4

+

4

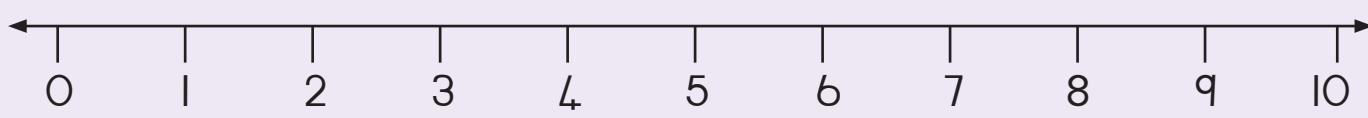
=  8



b. Andzisa 5 kambirhi

+

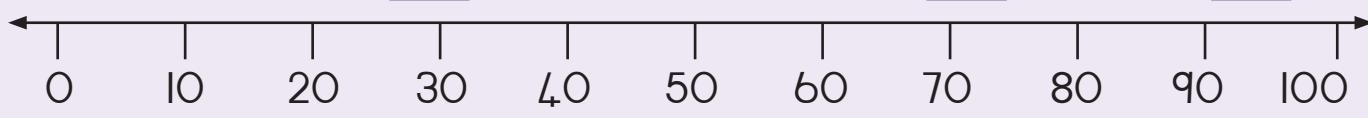
=



c. Andzisa 20 kambirhi

+

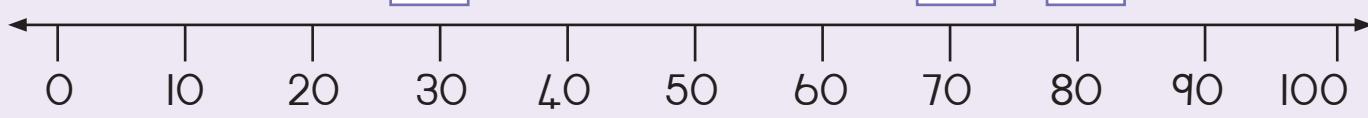
=



d. Andzisa 40 kambirhi

+

=



Hetisa leswi landzelaka

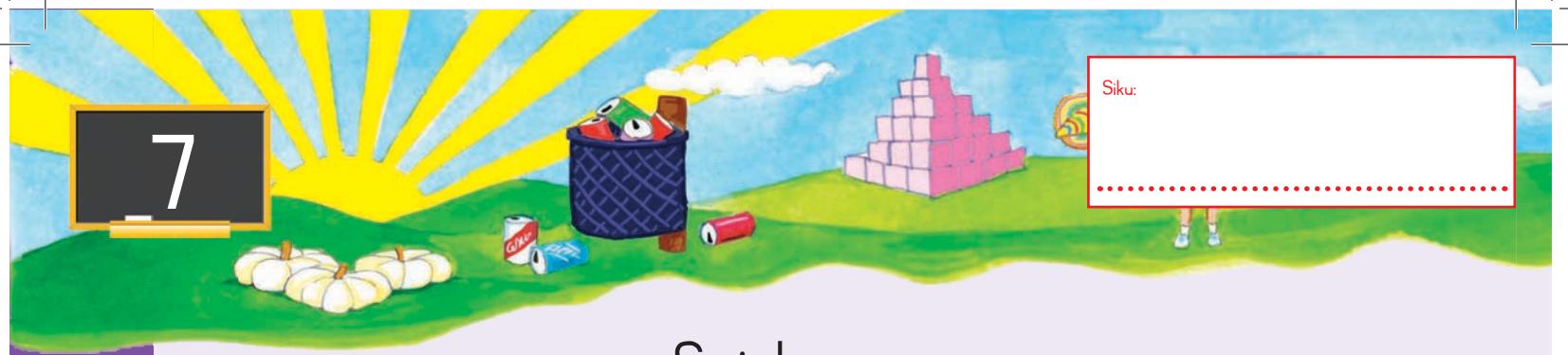
a. Andzisa 1 kambirhi	<input type="text"/> 2
b. Andzisa 6 kambirhi	<input type="text"/>
c. Andzisa 10 kambirhi	<input type="text"/>
d. Andzisa 30 kambirhi	<input type="text"/>
e. Andzisa 50 kambirhi	<input type="text"/>



Hetisa leswi landzelaka

a. Hafula 6	<input type="text"/> 3
b. Hafula 8	<input type="text"/>
c. Hafula 14	<input type="text"/>
d. Hafula 60	<input type="text"/>
e. Hafula 70	<input type="text"/>





Siku:

## Kotara ya I

### Swiphemu

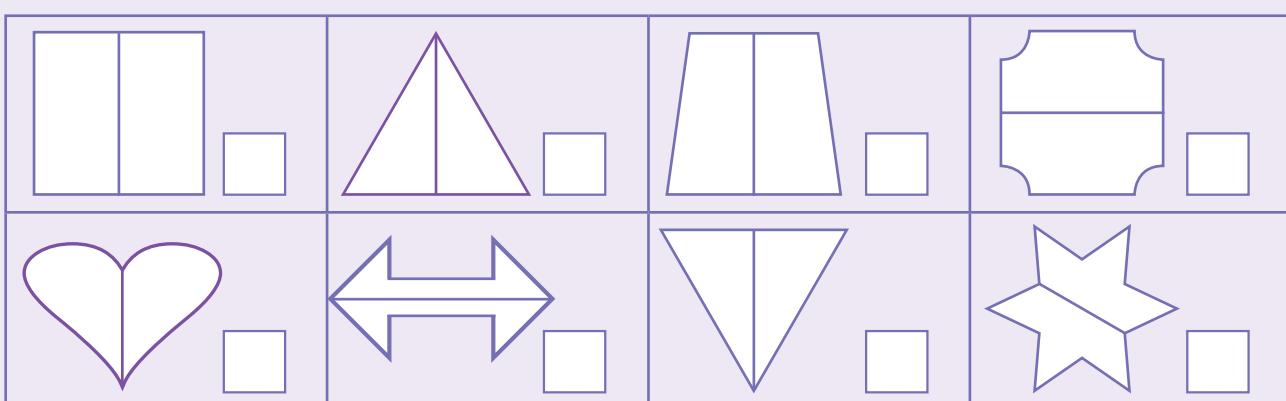
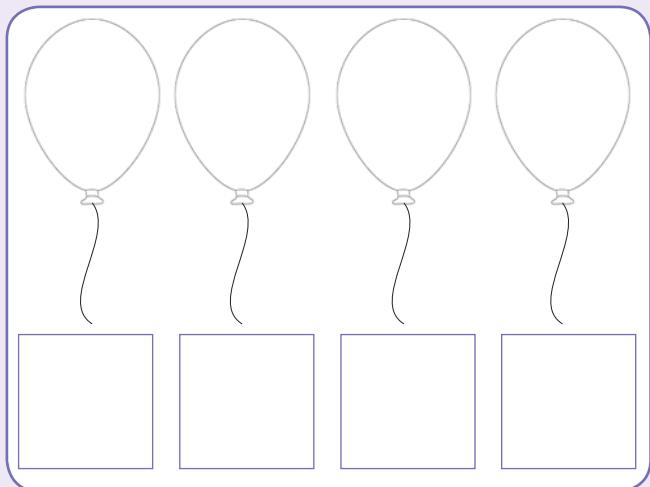
Khalara kotara ya tibaluni hi muhlovo wo tshwuka kasi leti saleke hinkwato hi muhlovo wa wasi.

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



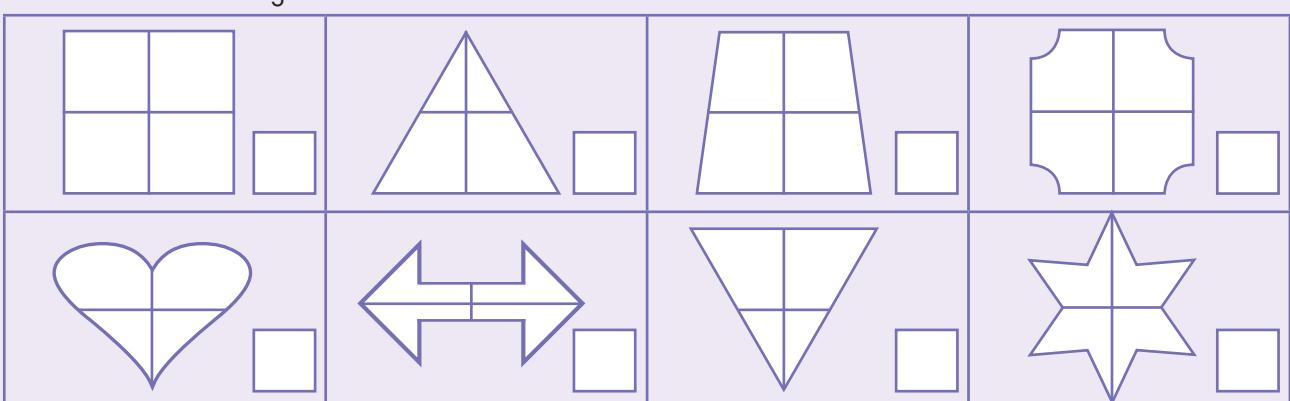
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tihafu.

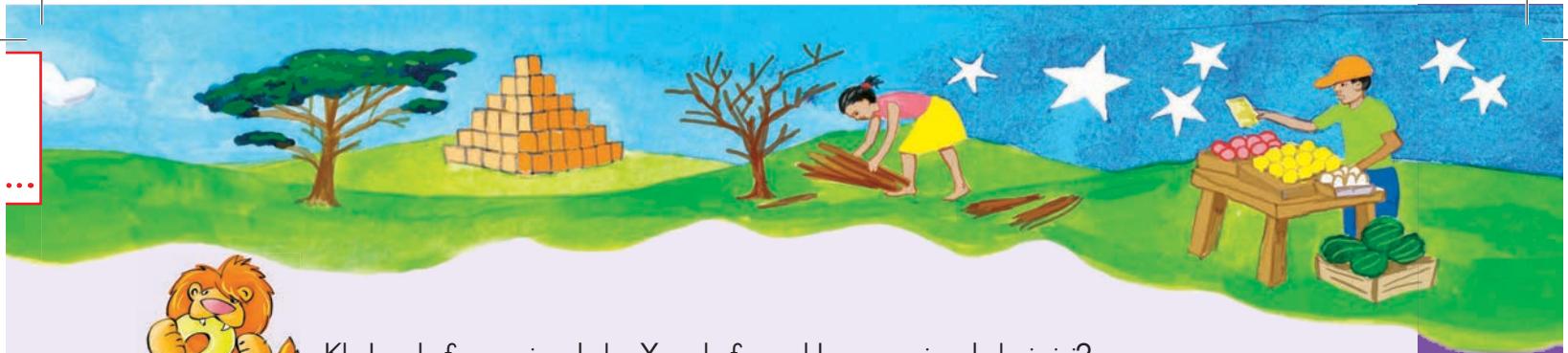
Khalara hafu yin'we ya xivumbeko xin'wana na xin'wana lexi nga avanyisiwa eka tihafu.



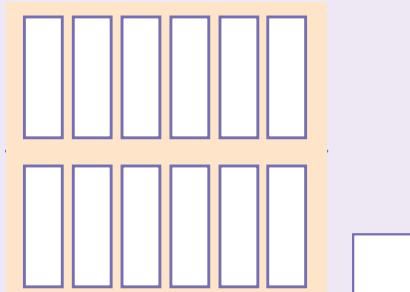
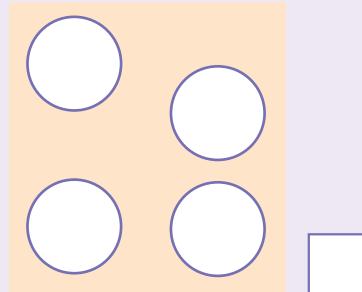
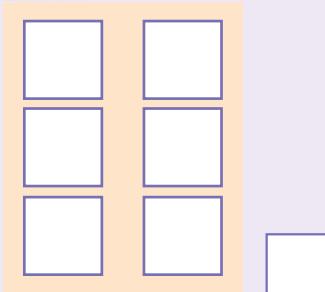
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tikotara.

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

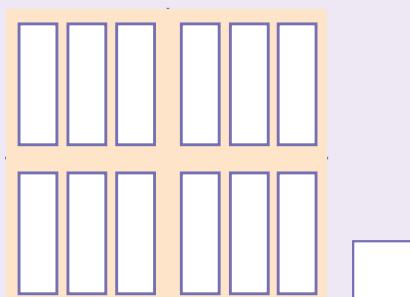
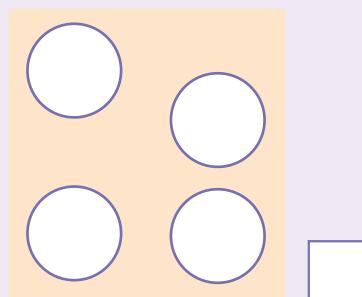
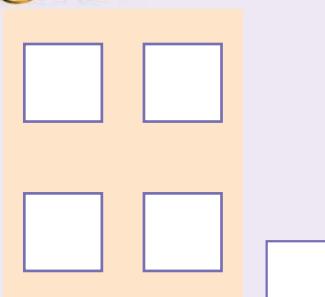




Khalara hafu ya swivumbeko. Xana hafu ya nhlayo ya swivumbeko i yini?



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



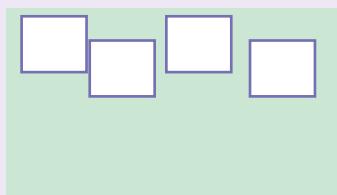
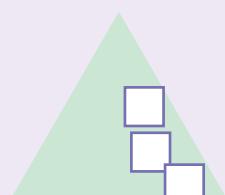
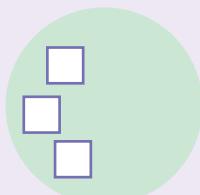
Tsala tanihi mfungho wa xiphemu.

hafu

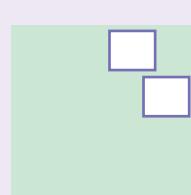
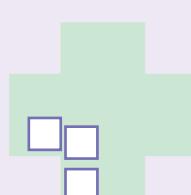
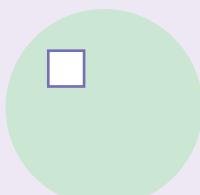
kotara



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.



8

Siku:

Kotara ya I



### Exitokofeleni

Manana Lubisi u hlayela no hlawula mali yo huma eka swirho swa ntawala wa bona.



## Ku hlawula mali



Pimanyisa ntsengo hinkwawo. R \_\_\_\_\_

Hlayela mali. R \_\_\_\_\_

Ringanisa mikumbetelo na mitsengo.



### Ku hlayisa mali

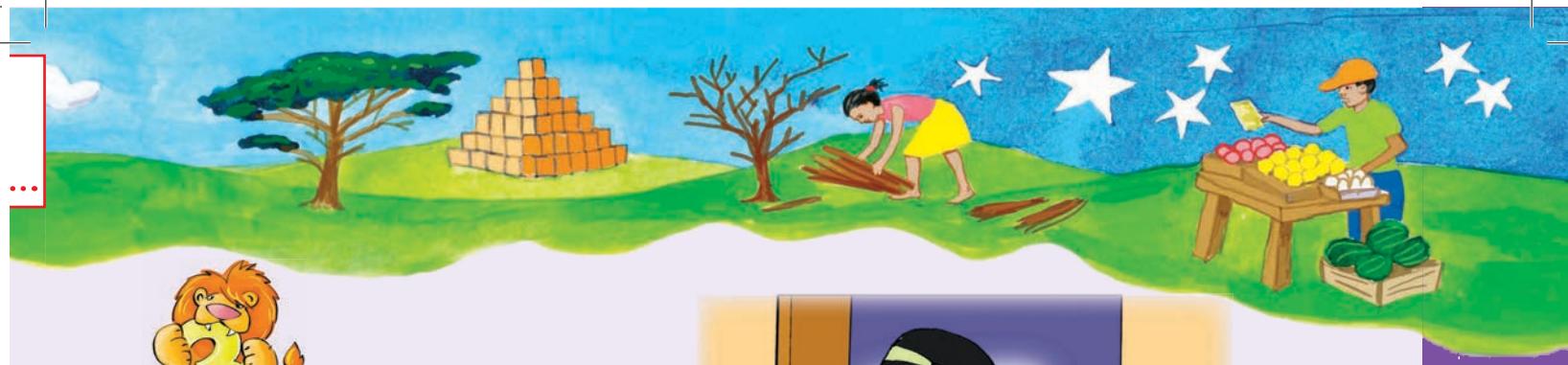


Gugu u hlayisa mali yo kota ku xava tintanghu leti durhaka R89.

Ku fika sweswi u na hafu ya ntsengo.

Xana u lava mali muni yin'wana?

Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.



## 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

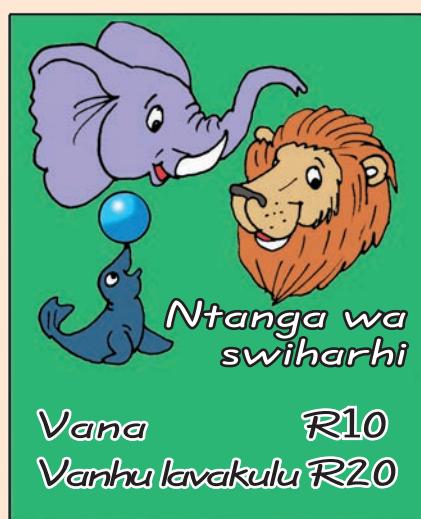
Vanhu lavakulu na vana va ya entangeni  
wa swiharhi. Va xava mathikithi ya R90.

Xana vana i vangani? \_\_\_\_\_

Xana lavakulu i vangani? \_\_\_\_\_

Xana ku na nhlamulo yin'wana?

Vanhu lavakulu \_\_\_\_\_ Vana \_\_\_\_\_





Siku:

Kotara ya |



## Tipatironi

Tirhisabodoleyi ya 200 wa tinomboro ku hlamula swivutiso.

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	I0
I1	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50
5I	52	53	54	55	56	57	58	59	60
6I	62	63	64	65	66	67	68	69	70
7I	72	73	74	75	76	77	78	79	80
8I	82	83	84	85	86	87	88	89	90
9I	92	93	94	95	96	97	98	99	100
I0I	I02	I03	I04	I05	I06	I07	I08	I09	I10
I1I	I12	I13	I14	I15	I16	I17	I18	I19	I20
I2I	I22	I23	I24	I25	I26	I27	I28	I29	I30
I3I	I32	I33	I34	I35	I36	I37	I38	I39	I40
I4I	I42	I43	I44	I45	I46	I47	I48	I49	I50
I5I	I52	I53	I54	I55	I56	I57	I58	I59	I60
I6I	I62	I63	I64	I65	I66	I67	I68	I69	I70
I7I	I72	I73	I74	I75	I76	I77	I78	I79	I80
I8I	I82	I83	I84	I85	I86	I87	I88	I89	I90
I9I	I92	I93	I94	I95	I96	I97	I98	I99	200



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

I05, I10, I15, __, __, __, __	87, 90, 93, __, __, __, __
36, 40, 44, __, __, __, __	I84, I86, I88, __, __, __, __
70, 65, 60, __, __, __, __	I38, I35, I32, __, __, __, __
I80, I76, I72, __, __, __, __	I4, I2, I0 __, __, __, __



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.

Ku hlayela hi vumbirhi.

Ku hlayela hi vunharhu.

		3		6		

Ku hlayela hi vukhume.



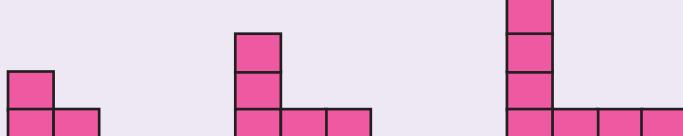
Engetela patironi.



For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at [john.smith@researchinstitute.org](mailto:john.smith@researchinstitute.org).



For more information about the study, please contact the study team at 1-800-258-4929 or visit [www.cancer.gov](http://www.cancer.gov).



A large, empty rectangular frame with a thick black border, centered on a white background.



10

Siku:

Kotara ya!

## Tibolo, mabokisi na tisilindara



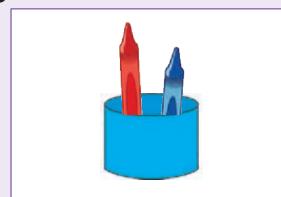
Bana xirhendzevutana eka mabokisi hi muhlovo wa wasi, tibolo hi wo tshwuka kasi tisilindara hi wa rihlaza.



Khalara nhlamulo leyji faneleke.



Bokisi



Silindara



Bolo

rheta

khunguluka

rheta

khunguluka

rheta

khunguluka



Khalara nhlamulo leyi faneleke.



makumu yo khotseka

makumu yo thwixi



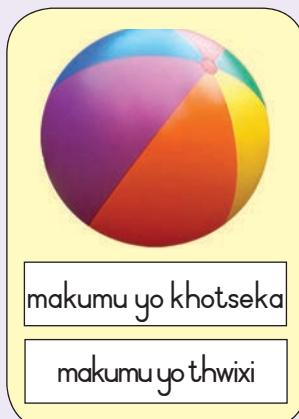
makumu yo khotseka

makumu yo thwixi



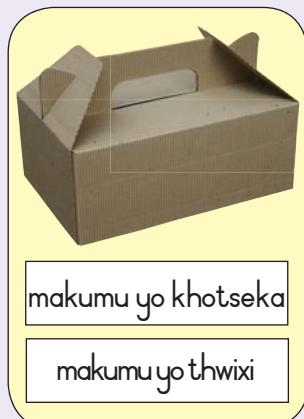
makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



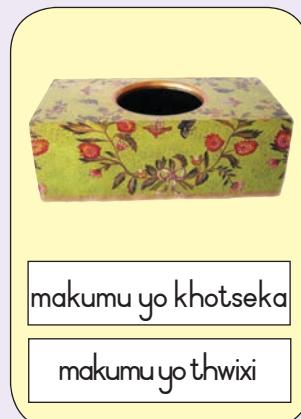
makumu yo khotseka

makumu yo thwixi



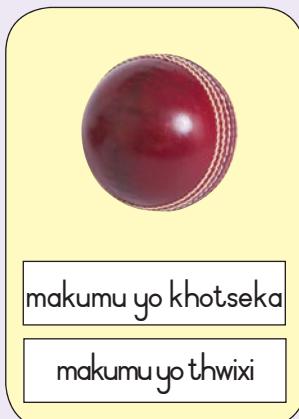
makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



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

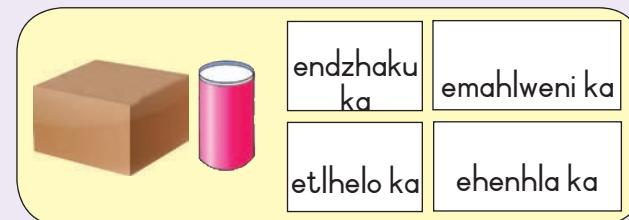


endzhaku  
ka

emahlweni ka

etlhelo ka

ehenhla ka



endzhaku  
ka

emahlweni ka

etlhelo ka

ehenhla ka





Siku:

.....

Kotara ya I



Dirowa swivumbeko

Yinhlanhharhu



Xirhendzevutana



Xikwere

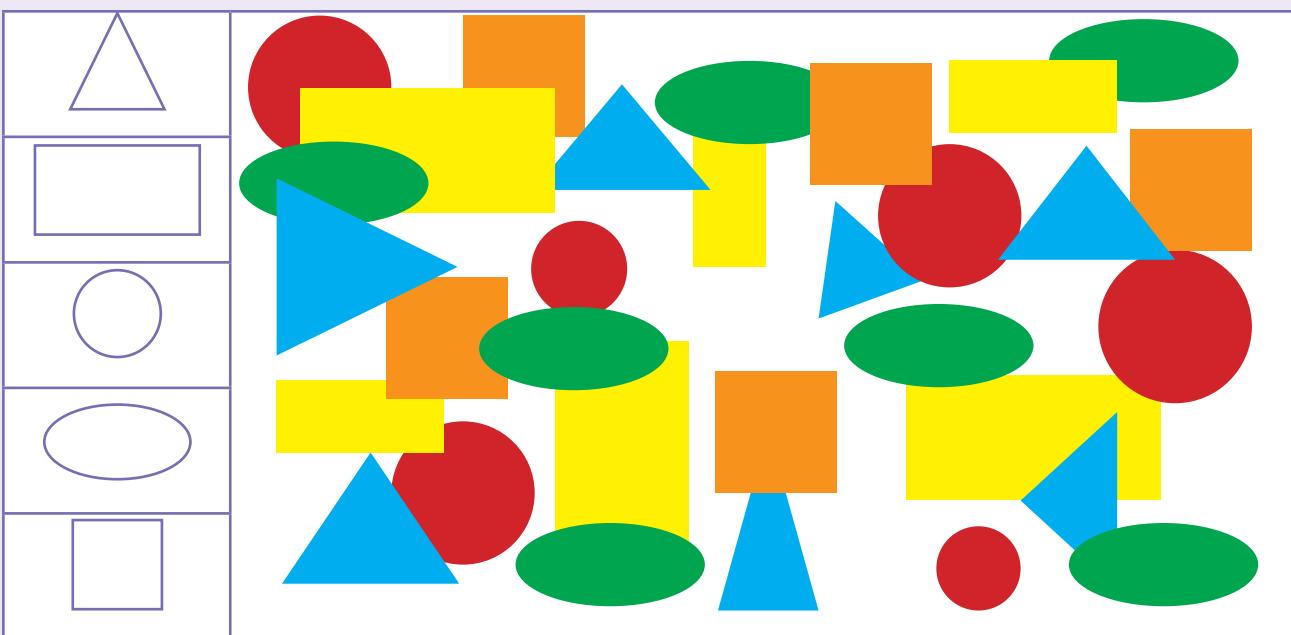


Yinhlamune



Ku hlayela swivumbeko

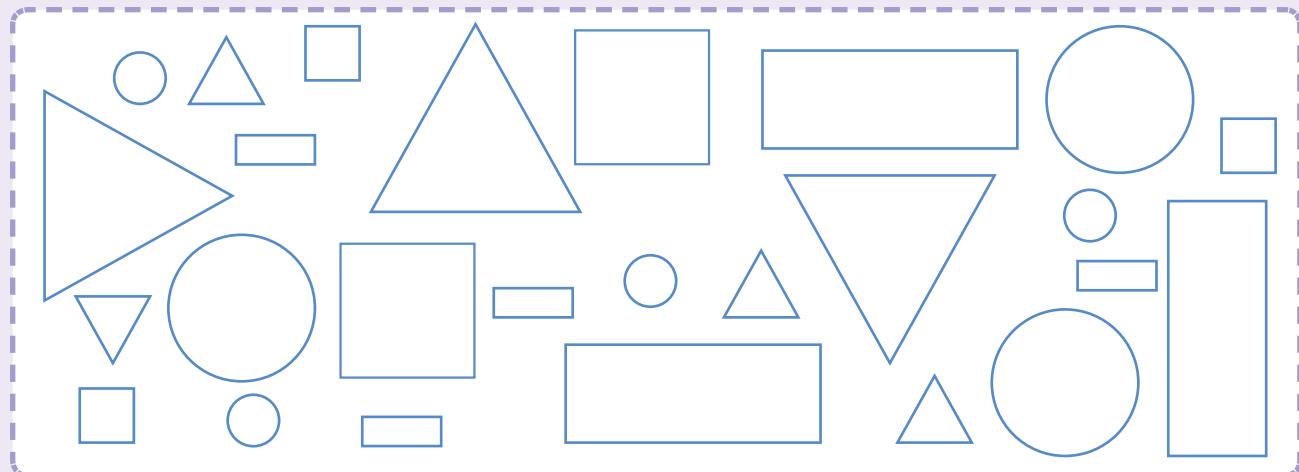
Hlayela leswaku ku na swivumbeko swingani swo fana na leswi u nga swi kuma exifanisweni.





## 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.

yo khotseka	yo thwixi	yo khotseka	yo thwixi	yo khotseka
yo khotseka	yo thwixi	yo khotseka	yo thwixi	yo khotseka

○  
□  
△  
■  

Teacher:  
Sign:  
Date:

12



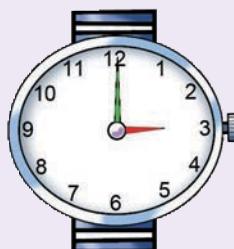
Siku:

Kotara ya |



### Ku hlaya nkarhi

Xana i minkarhi yihi leyi tiwachi leti ti yi kombisaka?



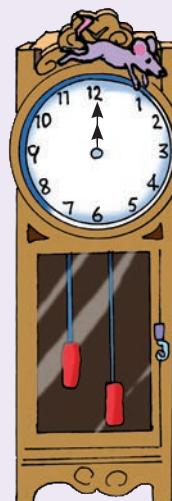
\_\_\_\_\_ ehenhla ka nhloko \_\_\_\_\_ ehenhla ka nhloko \_\_\_\_\_ ehenhla ka nhloko \_\_\_\_\_ ehenhla ka nhloko



### Tlula u rhendzeleka na wachi

Pfuna kondlo ku hlayela timinete hi vuntlhanu.

Sungula eka 12. Famba u rhendzeleka ku fika emakumu.



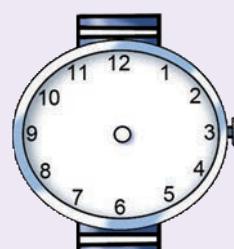
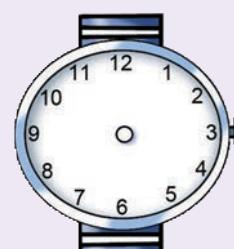
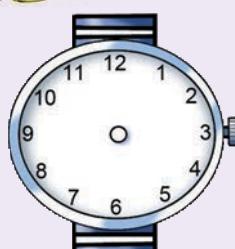
Xana u hlayele timinete tingani? \_\_\_\_\_

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



Tumi u ya exikolweni.



U suka ekaya.



U fika exikolweni.

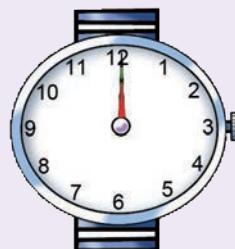


### Siku ro baka

Maria u baka xinkwa.



Xinkwa xi nghena  
eovheneni.



Xinkwa  
xa huma.



Xana Tumi u teka nkarhi wo tanihi kwih? \_\_\_\_\_

Xinkwa xi vupfa hi \_\_\_\_\_ wa timinete.



### Ntlhontlho

I nkarhi wa ku andzisa kambirhi

- Cinca tiawara ku ya eka timinete.

Tiawara	1	2	4	8
Timinete	60			

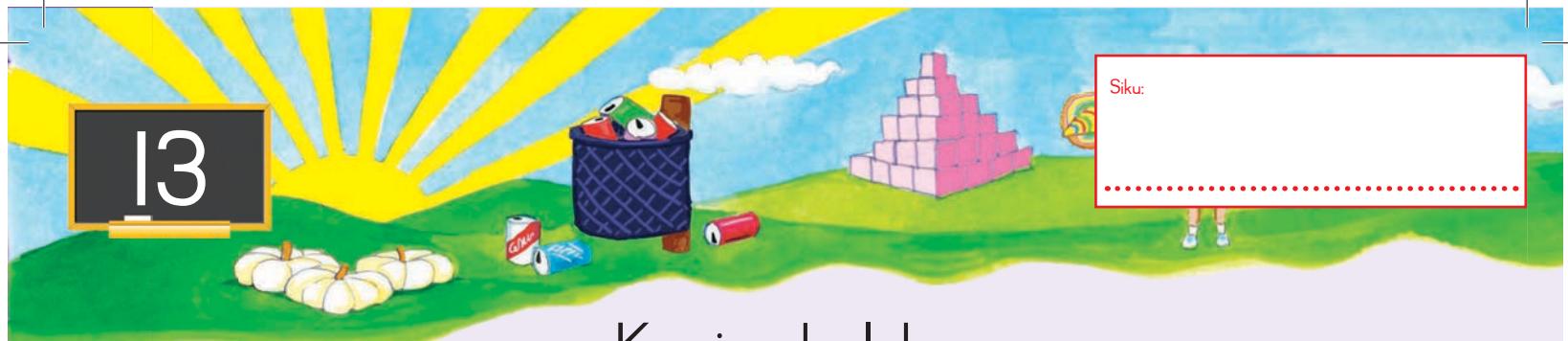
Ndzi kota ku vona  
patironi.



- 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:

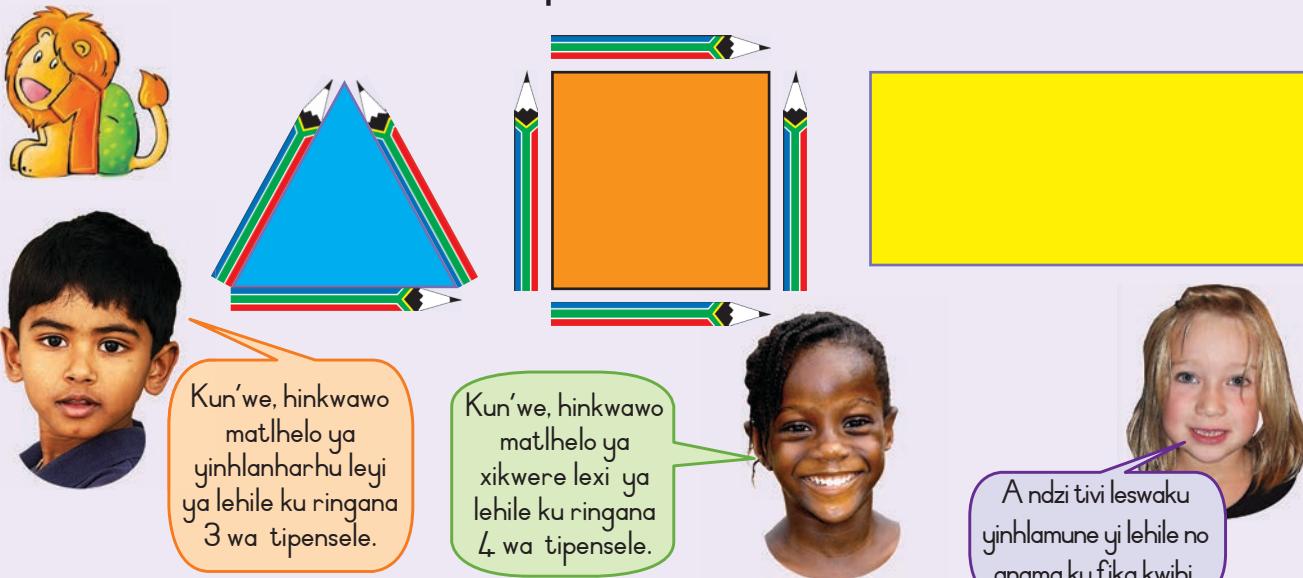
13



Siku:

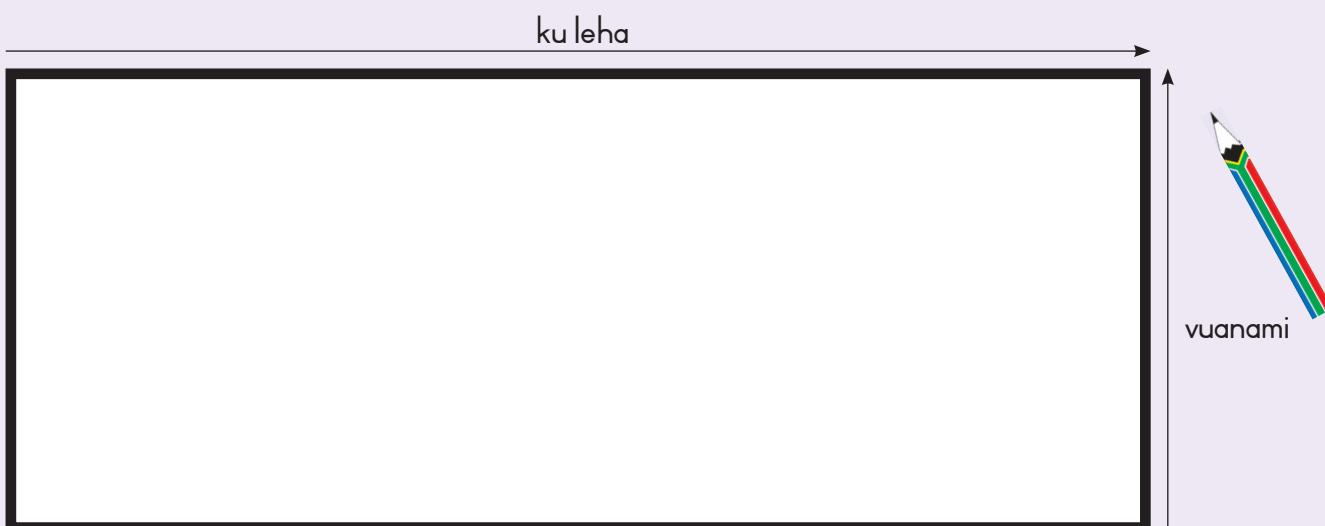
Kotara ya!

## Ku pima ku leha



Xana yinhlamune yi lehile ku ringana tipensele tingani?

Xana yinhlamune yi anamile ku ringana tipensele tingani?



Xana u ti tirhise njhani tipensele ku hlayela?

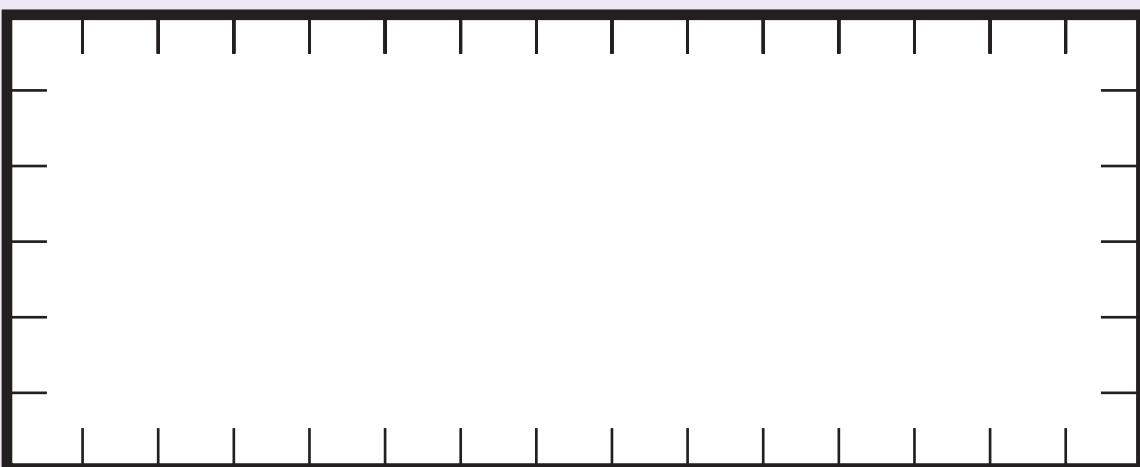


## Ku leha ko hlamarisa

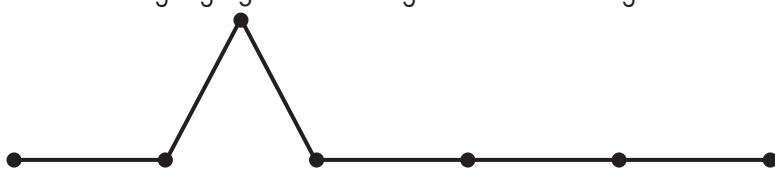
- a. Xana i mitila yo **tshwuka** yingani leyi u faneleke ku yi kuma ku kota ku ringana na ntila wa ntima?



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



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



Nhlamulo \_\_\_\_\_

Hikwalaho ka yini? \_\_\_\_\_



Teacher:  
Sign:  
Date:

14



Siku:

.....

Kotara ya!



## Vundzeni

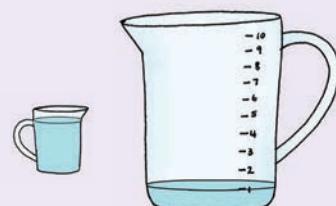
Se ndzi cherile malepula ya  
mune endzeni ka khapu.

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



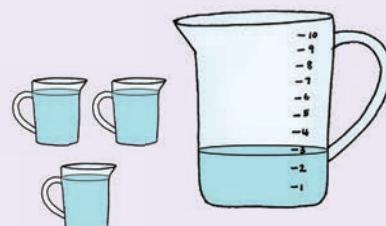
Xana ku na tikhapu ta mati tingani exibyen xo chela? Xana ku laveka tikhapu tin'wana  
tingani ku kota ku tata xibye xo chela?

a.



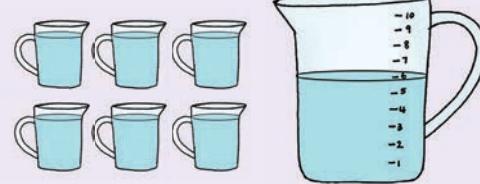
Endzeni ka xibye:  Ku laveka:  9

b.



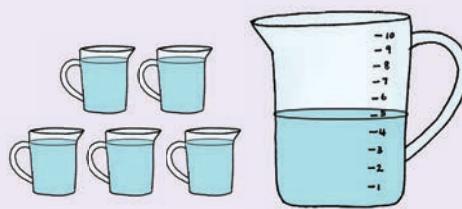
Endzeni ka xibye:  Ku laveka:

c.



Endzeni ka xibye:  Ku laveka:

d.



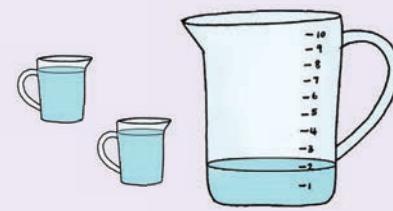
Endzeni ka xibye:  Ku laveka:

e.



Endzeni ka xibye:  Ku laveka:

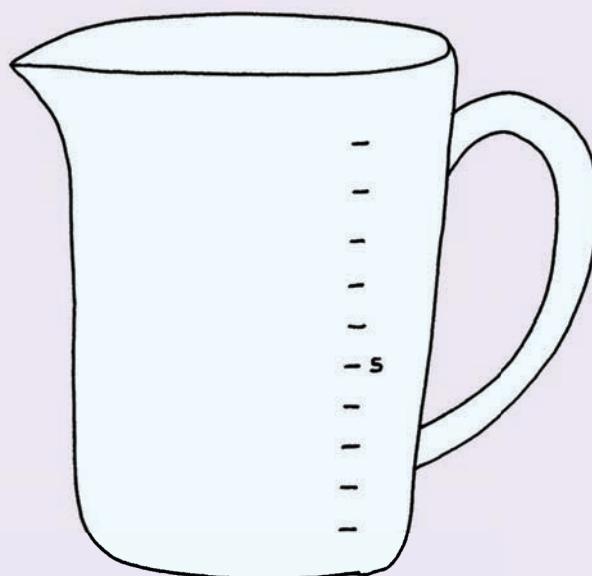
f.



Endzeni ka xibye:  Ku laveka:



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

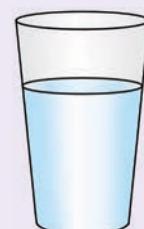
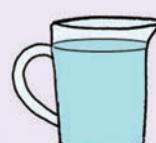


Loko khapu yin'we yi tata jeke ku fika eka  
xikhandlu xa vumbirhi, xana u fanele ku  
kuma tikhapu tingani leswaku u kota ku  
tata jeke ku fika eka:

- 4 \_\_\_\_\_
- 6 \_\_\_\_\_
- 8 \_\_\_\_\_
- 10 \_\_\_\_\_



Gwajula swibye swo chela leswi khomaka 1 litara ya swihalaki.



15

Siku:

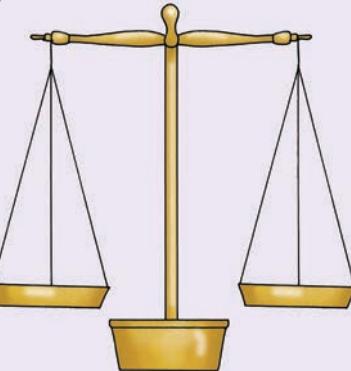
Kotara ya!



A hi pimēni ntiko!

Ku kota ku kuma leswaku hi tika kumbe hi vevuka ku fika kwih, 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



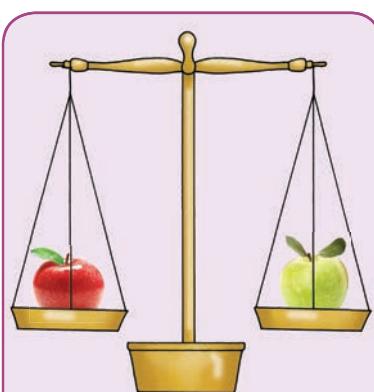
42 kg



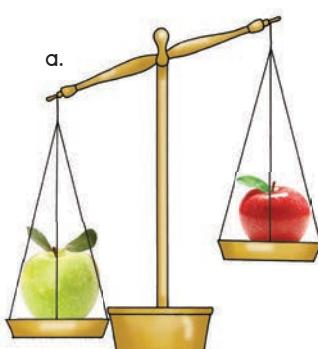
39 kg



Hi tirhisa xikalu xa balansi ku pima ntiko.

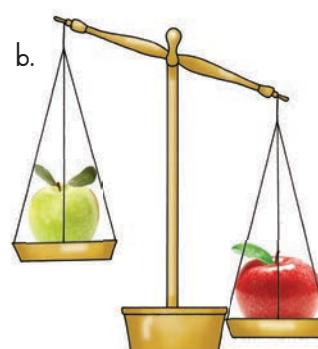


Eka xikalu lexi maapula hinkwawo  
ya tika ku ringana.



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?

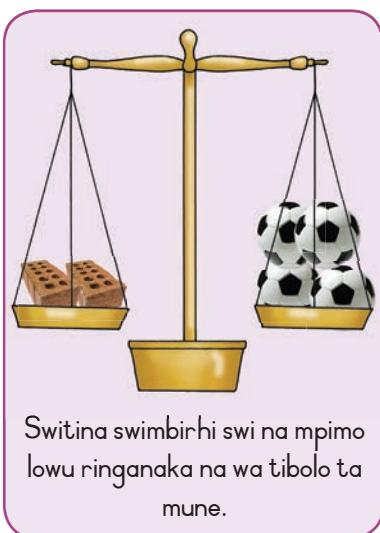


Hlamula xivutiso hi ku tsala a kumbe b.

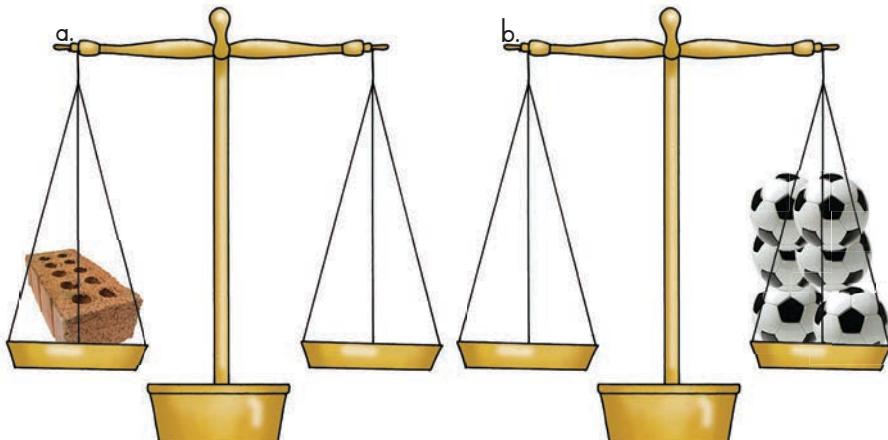


## Ringanisa swikalu.

Hi ku endlele xo sungula.



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



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

a. 2 maphasela \_\_\_\_\_

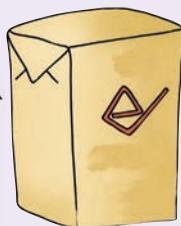
b. 3 maphasela \_\_\_\_\_

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



Hikwalaho ka yini swi kote ka kumbe swi nga kote? \_\_\_\_\_

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










Teacher:  
Sign:  
Date:



## 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 exitsalelwani.

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



Sweswi dirowa girafu ya swif aniso



= 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.

- Vadyondzi vo tala va ambala tintanghu ta sayizi ya \_\_\_\_\_.
- Nhlayo leyitsongo swinene yi ambala sayizi ya \_\_\_\_\_.
- Vana va \_\_\_\_\_ va nghenerile mbalango lowu.



Wena ke?

Kumisia leswaku wena na vanghana va wena mi ambala tisayizi tiki!

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



<input type="radio"/>
<input type="checkbox"/>
<input type="triangle"/>
Teacher: Sign: Date:

17

Siku:

Kotara ya |

## 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
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Hi yihi nomboro leyi  
rhangelaka 84? Hi yihi  
nomboro leyi landzelaka  
84?



Hi yihi nomboro leyi  
nga exikarhi ka 88  
na 90?



Tata tinomboro leti siyiweke.

51									
									67
71									
									100

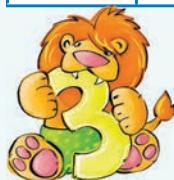
Tirhisa bodo ya tinomboro ku hlamlula swivutiso.

- Hi yihi nomboro leyi rhangelaka 68? \_\_\_\_\_
- Hi yihi nomboro leyi landzelaka 68? \_\_\_\_\_
- Tsala tinomboro ta ntłhanu leti nga letitsongo eka 71. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Tsala tinomboro ta ntłhanu 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  
\_\_\_\_\_



Hetisa tafula. Sungula hi nomboro leyji 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	<input type="text"/>	98	89	<input type="text"/>	57
----	----------------------	----	----	----------------------	----



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



18



Siku:

Kotara ya |

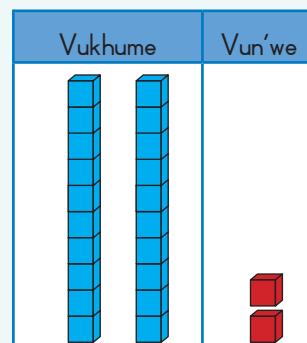


## Ku kombisa tinomboro hi ku tirhisa swilo

Hi nga kombisa tinomboro hi tibuloko ta nkoka wa ndhawu.

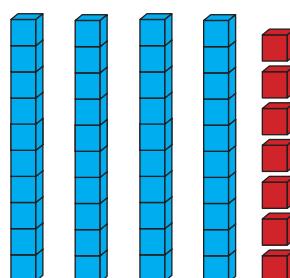
Buloko leyitsongo yi yimela I. I yuniti/vun'we.

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



Unga kombisa nomboro hi ku tirhisa vukhume na vun'we.

Leswi hi nga kombisisaka xiswona **47**.



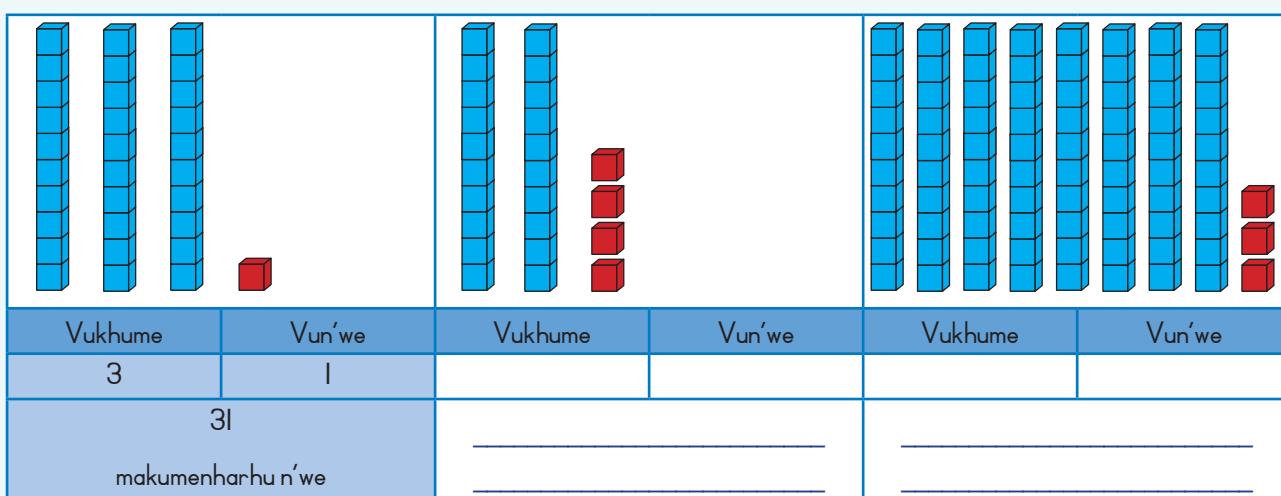
Vukhume	Vun'we
4	7

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.





2 0 b

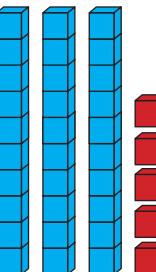
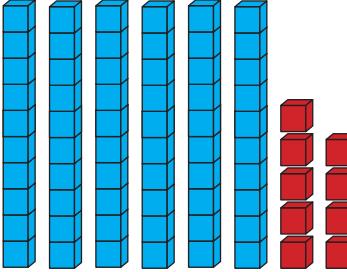
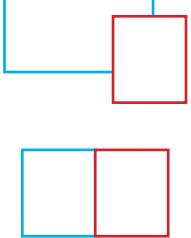
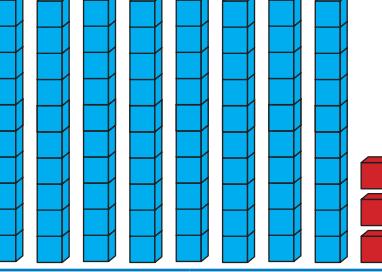
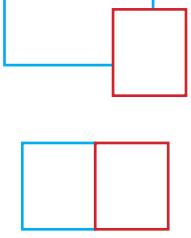
2 b

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

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



Xana nomboro i yini?

	<p>3 0 5 3 5</p>	<table border="1"> <tr> <td>Vukhume</td> <td>Vun'we</td> </tr> <tr> <td>3</td> <td>5</td> </tr> </table> <p>makumenharhu ntlanu 35</p>	Vukhume	Vun'we	3	5
Vukhume	Vun'we					
3	5					
		<table border="1"> <tr> <td>Vukhume</td> <td>Vun'we</td> </tr> <tr> <td> </td> <td> </td> </tr> </table> <p>_____</p>	Vukhume	Vun'we		
Vukhume	Vun'we					
		<table border="1"> <tr> <td>Vukhume</td> <td>Vun'we</td> </tr> <tr> <td> </td> <td> </td> </tr> </table> <p>_____</p>	Vukhume	Vun'we		
Vukhume	Vun'we					



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

19

Siku:

## Ku veka vukhume kun'we loko hi hlanganisa eka 99

Kotara ya |

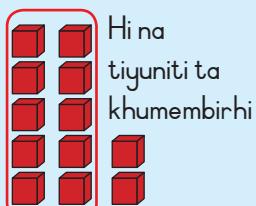


Hlaya

Hi leyi ndlela yin'wana ya ku kombisa 22.

Vukhume	Vun'we
I 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 0	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
2 0	1 0
2 0 1 0	1

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

Sweswi hi na  
3 vukhume + 1 vun'we = 31

Vukhume	Vun'we
3 0	1
3 0 1	1

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



## Tsala xivulwa xa tinomboro lexi kombisiwaka hi xifaniso

Vukhume	Vun'we	Vukhume	Vun'we	Vukhume	Vun'we
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$10 + 5 + 6$	$\underline{\quad} + \underline{\quad} + \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$			

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

<b>Vukhume</b>	<b>Vun'we</b>	<b>Vukhume</b>	<b>Vun'we</b>	<b>Vukhume</b>	<b>Vun'we</b>
		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>					
<b>Vukhume</b>	<b>Vun'we</b>	<b>Vukhume</b>	<b>Vun'we</b>	<b>Vukhume</b>	<b>Vun'we</b>
		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>					



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

# 20a

Siku:

Kotara ya!

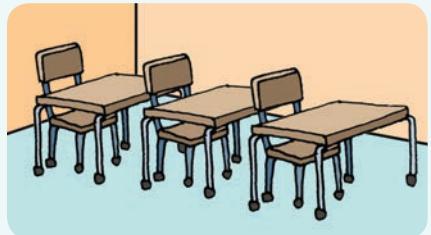
## Hlanganisa eka ndzhati wa mitsengo

Tshama edesiken i ra wena!

Exikolweni xa hina mudyondzi un'wana na un'wana u na desika ra yena.

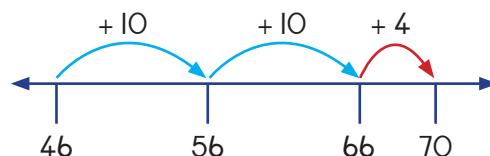
Ku na 46 wa vadyondzi eka Giredi ya 3A na 24 eka Giredi ya 3B.

Xana i madesika mangani ma lavekaka eka titlilasi letimbirhi?



Tirha na nakuloni

Languta hilaha vadyondzi lavanharhu va tirhisaka xiswona ndzhati wa mitsengo ku lulamisa xiphiko. 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.

$$\begin{aligned} &= 46 + 10 + 10 + 4 \\ &= 56 + 10 + 4 \\ &= 66 + 4 \\ &= 70 \end{aligned}$$

Ndzi fanele ku  
hlanganisa 24  
eka 46.



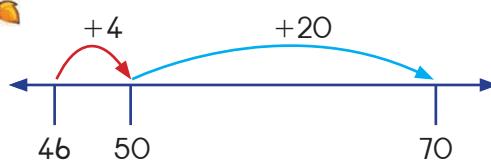
a.  $32 + 25 =$

← →



b.  $52 + 26 = \square$

c.  $46 + 25 = \square$



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.  $36 + 41 = \square$



Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

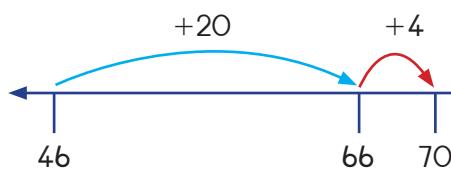
20b

Siku:

Kotara ya |

## Hlanganisa eka ndzhati wa mitsengo (ku yisa emahlweni)

b.  $57 + 19 = \square$



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.  $63 + 24 = \square$



b.  $65 + 29 = \square$



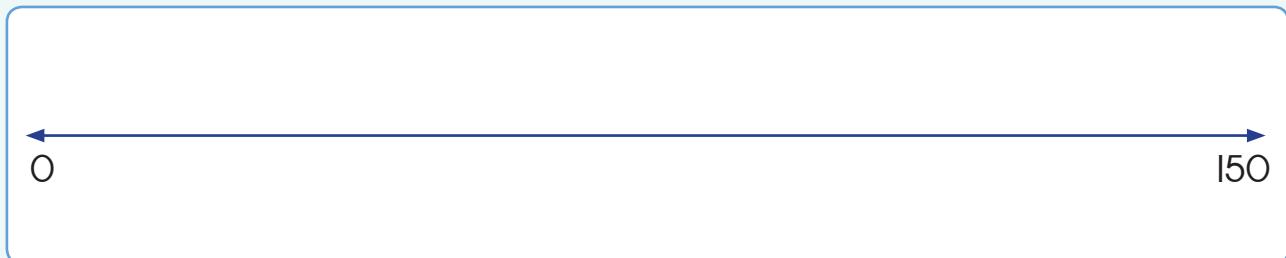


## Xana i malofo mangani?

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.

$38 + 24 =$

$58 + 17 =$



$75 + 16 =$

$83 + 29 =$



2la

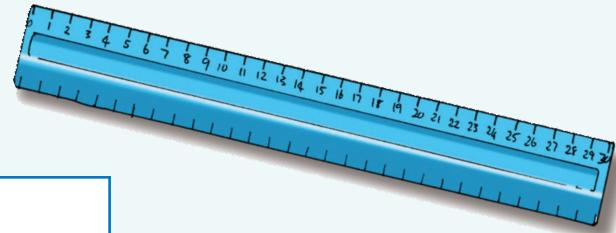
Siku:

Kotara ya!

Mudyondzi un'we! Rhula yin'we!

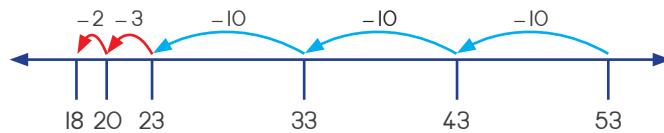
Tlilasi yi lava 53 wa tirhula. Ho va na 35 ntsena.

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 ntłhanu, 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.

$$= 53 - 10 - 10 - 10 - 3 - 2$$

$$= 43 - 10 - 10 - 3 - 2$$

$$= 33 - 10 - 3 - 2$$

$$= 23 - 3 - 2$$

$$= 20 - 2$$

$$= 18$$

Ndzi fanele ku susa  
35 eka 53. Nsusoso swi  
vula **ku susa**.





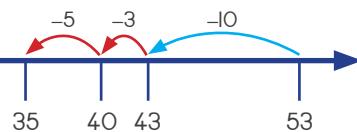
a.  $68 - 24 =$



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.  $38 - 14 =$



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

2lb

Siku:

## Susa eka ndzhati wa mitsengo (ku yisa emahlweni)

Kotara ya |

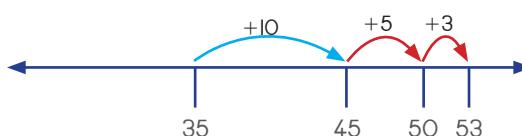
b.  $65 - 43 = \square$



c.  $72 - 39 = \square$



d.  $85 - 48 = \square$



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.  $84 - 32 = \square$





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 xiphijo lexi.



← →

km





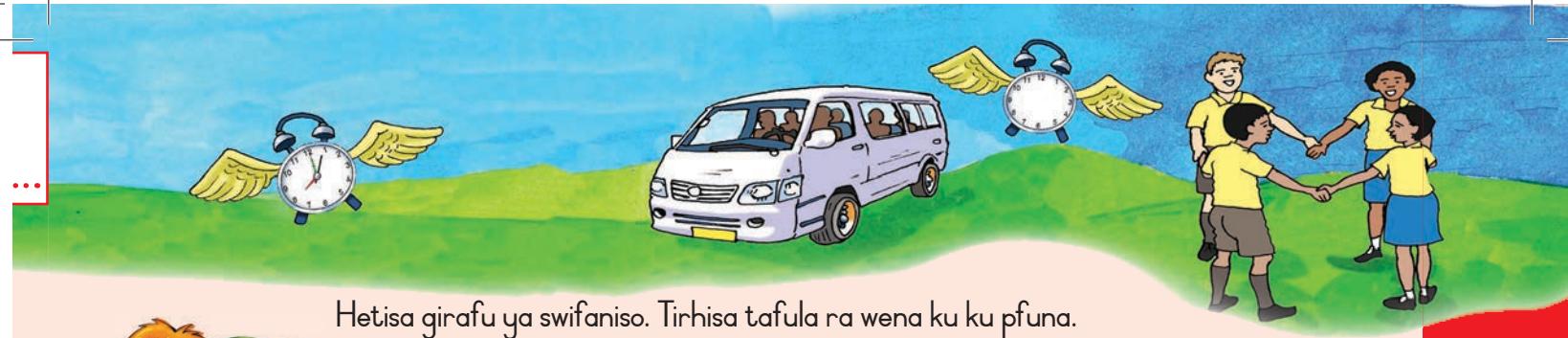
Pulani yo sungula!

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				



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:

Sian:

Dg<sup>t</sup><sub>21</sub>

A horizontal ruler scale with tick marks every millimeter. The numbers 11 through 20 are placed above the ruler, each aligned with its corresponding tick mark. The numbers are colored as follows: 11 (blue), 12 (green), 13 (orange), 14 (purple), 15 (pink), 16 (yellow), 17 (blue), 18 (red), 19 (blue), and 20 (green).

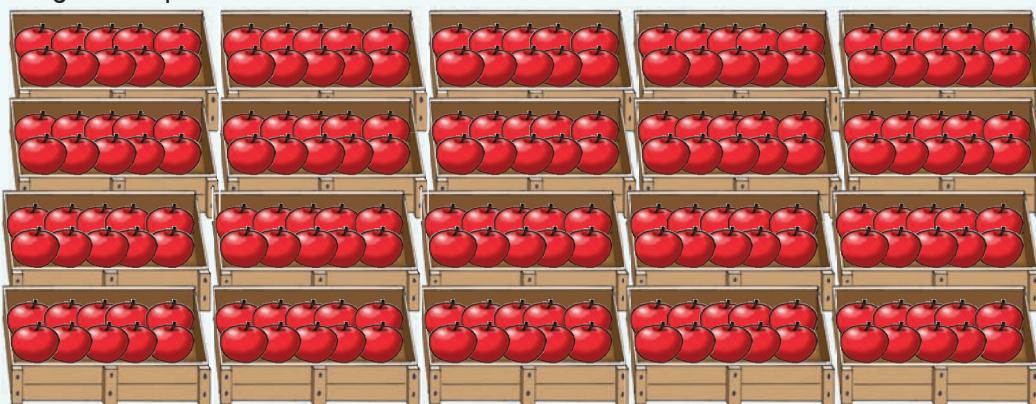
23

Siku:

Kotara ya!



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. 

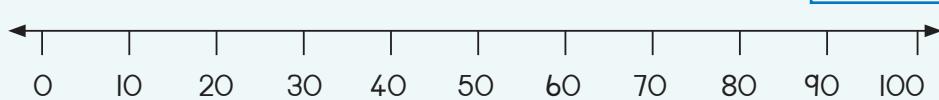


Hlayela eka ndzhati wa mitsengo.

- a. Xana ku ta va na maapula mangani eka mabokisi ya ntshanu?



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



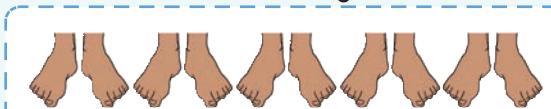


3 wa 10 wa swijumba swi endla **3 0**  $3 \times 10 =$  **3 0** kumbe  $10 \times 3 =$  **3 0**

5 wa 10 wa  
swijumba swi endla  $\underline{\quad} \times \underline{\quad} =$   kumbe  $\underline{\quad} \times \underline{\quad} =$    
2 wa 10 wa  
swijumba swi endla  $\underline{\quad} \times \underline{\quad} =$   kumbe  $\underline{\quad} \times \underline{\quad} =$



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.

$\underline{\quad} =$    $\underline{\quad} \times \underline{\quad} =$   kumbe  $\underline{\quad} \times \underline{\quad} =$

3 wa tiphere ta mikondzo

$\underline{\quad} =$    $\underline{\quad} \times \underline{\quad} =$   kumbe  $\underline{\quad} \times \underline{\quad} =$



A hi hlayeleni hi vu-10

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

      ,       ,       ,       ,       ,       ,       ,       ,       ,       , 200



24



Siku:

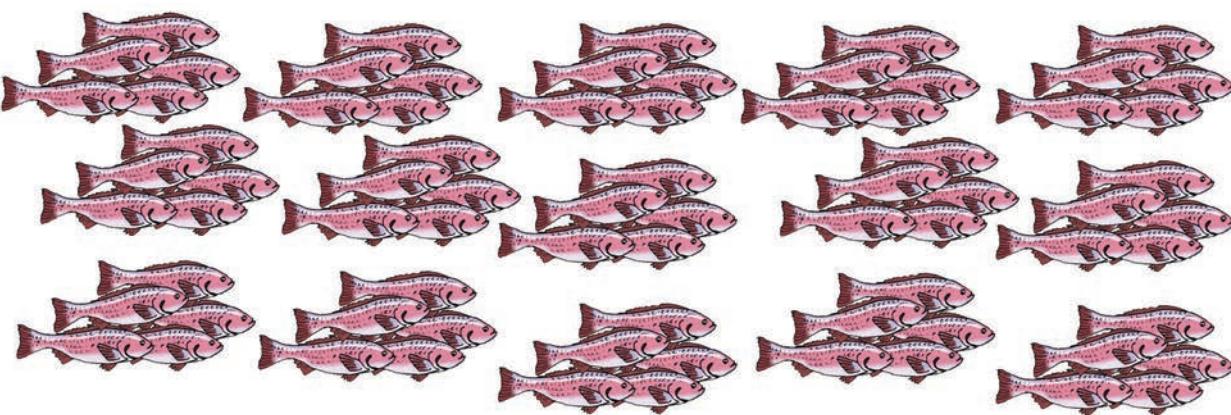
.....

Kotara ya |

## 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		

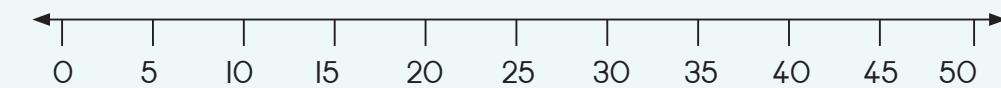


### Hetisa mindzhati ya mitsengo



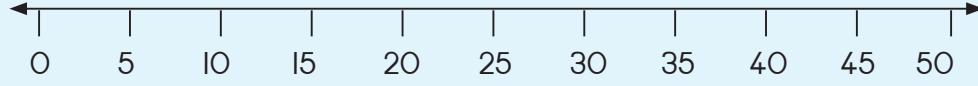
$$5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{35} \text{ kumbe } \boxed{7} \times \boxed{5} = \boxed{35}$$

a.



$$5 + 5 + 5 + 5 = \boxed{\quad} \text{ kumbe } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

b.



$$+ + + + + + + = \boxed{\quad} \text{ kumbe } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

c.



$$- + - + - + - + - + - + - + - + - = \boxed{\quad} \text{ kumbe } 10 \times 5 = 50$$



### Ku phasa tinhlampfi

Sipho u phasa tinhlampfi ta le xikarhi ka 40 na 50. U tihlayela hi vu-5 naswona u na 1 leyji saleke.

U ti hlayela hi vu-5 naswona u na 2 leti saleke. Xana Sipho u phase tinhlampfi tingani?

<input type="text"/>
<input type="text"/>



Teacher:  
Sign:  
Date:

25a

Siku:

.....

Kotara ya |



Hlayela masokisi

## Hlayela hi vu-2



- Xana ku na tiphere tingani ta masokisi? \_\_\_\_\_
- Xana ku na masokisi mangani? \_\_\_\_\_
- Xana ku na masokisi lama saleke? \_\_\_\_\_



## 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



Teacher:  
Sign:  
Date:

25b



Siku:

Kotara ya |



## Hlayela hi vu-2 (ku yisa emahlweni)

Ku vumba tiphere

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

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

2, 4, 6,

---

---

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

3, 5, 7,

---

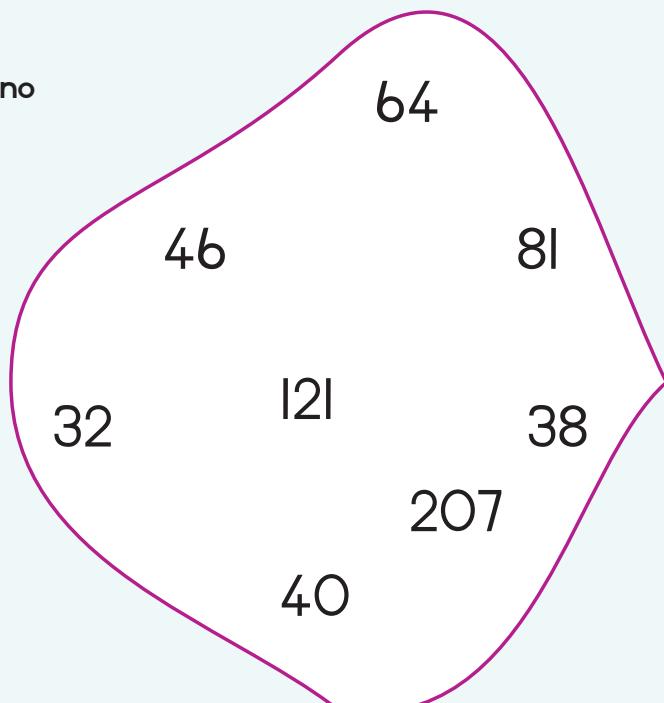
---



### Fadzenga na ndzingano

Dirowa xirhendzevutana eka tinhlayo-ndzingano.

Dirowa xikwere eka tinhlayo-fadzenga.





## Ku suka eka tiphere ku ya eka masokisi

Xikombiso:

$$2 \text{ wa masokisi} = 1 \text{ phere}$$



$$2 \times 1 = 2$$

$$20 \text{ wa masokisi} = 10 \text{ wa tiphere}$$

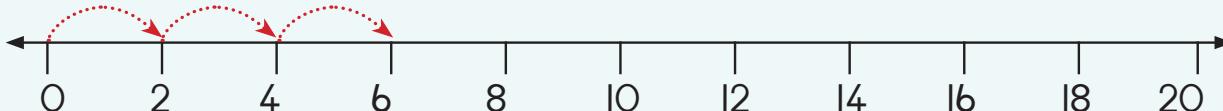
$$2 \times 10 = 20$$

a. Tsala leswaku i masokisi mangani.

Ehleketa hi vu - 2	Xivulwa xa tinomboro
1 phere = 2 wa masokisi	$2 \times 1 = 2$
2 wa tiphere = _____ wa masokisi	$2 \times 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.

$$2 + 2 + 2 = 6 \text{ kumbe } 3 \times 2 = 6$$



$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\phantom{00}} \text{ kumbe } \boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



Teacher:  
Sign:  
Date:

## 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.





## 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 = <input type="text"/> c	R2,00 = <input type="text"/> c
R3,00 = <input type="text"/> c	R1,50 = <input type="text"/> c



## Xana mihandzu yi durha mali muni?

2 ya durha R4,00.

2 ya durha R2,00.

U nga kuma mabanana mangani hi R20,00?

Eka R9,00 ku kumeka maqpula mangani?



27



Siku:

Kotara ya |

## 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.

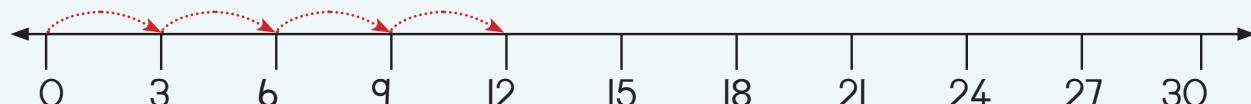
9 wa tithirayisekele ti na \_\_\_\_\_ wa mavhilwa.

8 wa tithirayisekele ti na \_\_\_\_\_ wa mavhilwa.



Mindzhati ya mitsengo

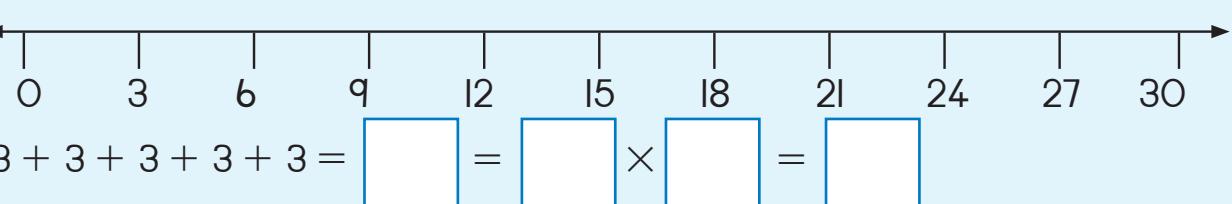
Landzelela xikombiso.



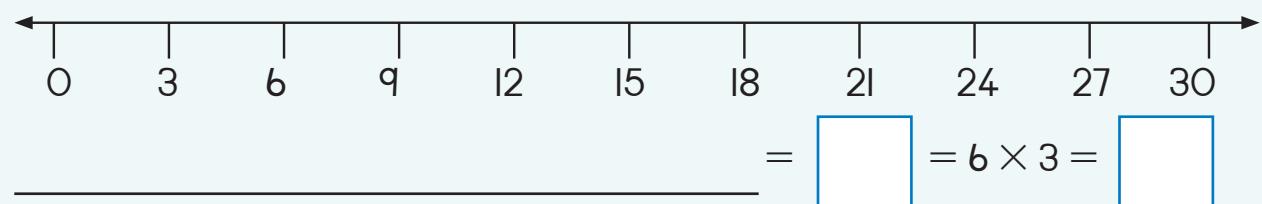
a.  $3 + 3 + 3 + 3 = \boxed{\quad} = 4 \times 3 = \boxed{\quad}$



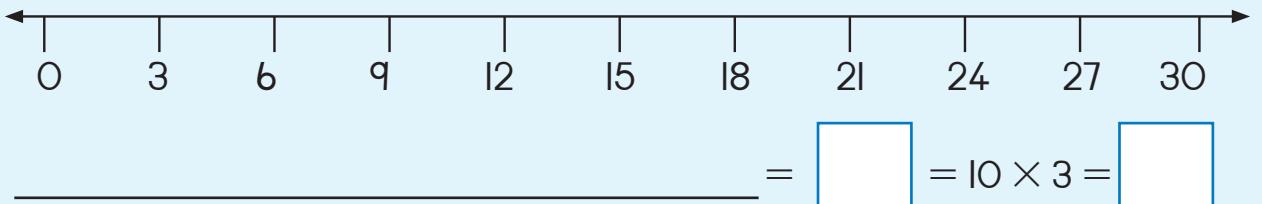
b.



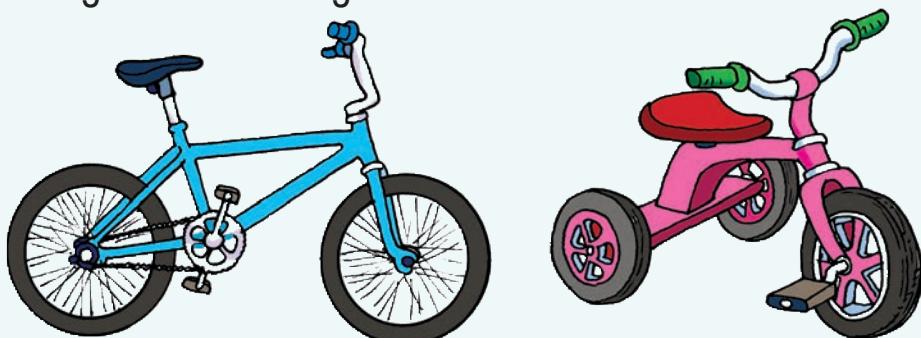
c.



d.



### 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? \_\_\_\_\_



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

28

Siku:

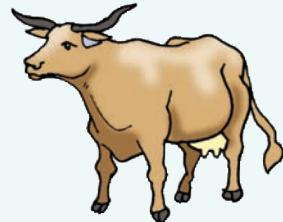
Kotara ya |



Milenge ya mune

Milenge ya homu yi ta hi vu-4.

Mintiyiso yin'wana ya  
nomboro ya 4...  
 $4 + 4 = 8; 2 \times 4 = 8$



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.

I homu <input type="text" value="4"/> wa milenge	2 wa tihomu <input type="text" value="8"/> wa milenge
3 wa tihomu <input type="text"/> wa milenge	4 wa tihomu <input type="text"/> wa milenge
5 wa tihomu <input type="text"/> wa milenge	6 wa tihomu <input type="text"/> wa milenge
7 wa tihomu <input type="text"/> wa milenge	8 wa tihomu <input type="text"/> wa milenge
9 wa tihomu <input type="text"/> wa milenge	10 wa tihomu <input type="text"/> wa milenge



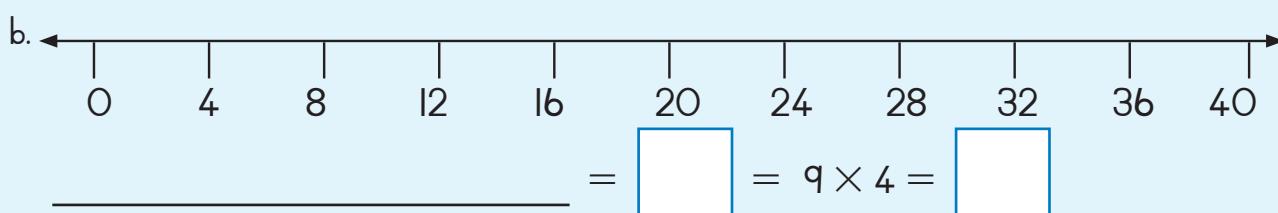
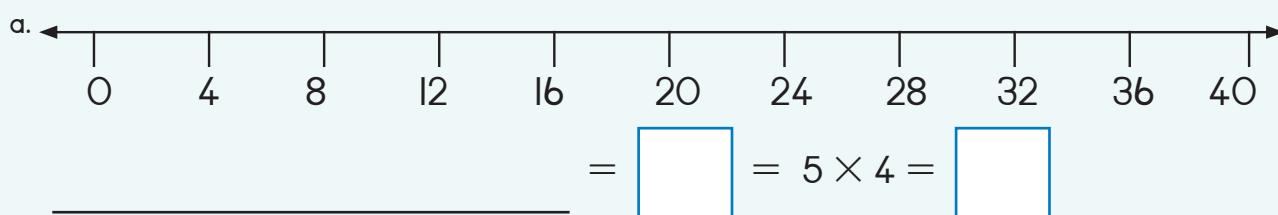
Hetisa tafula leri nga laha hansi. Tirhisa xikombiso ku ku letela.

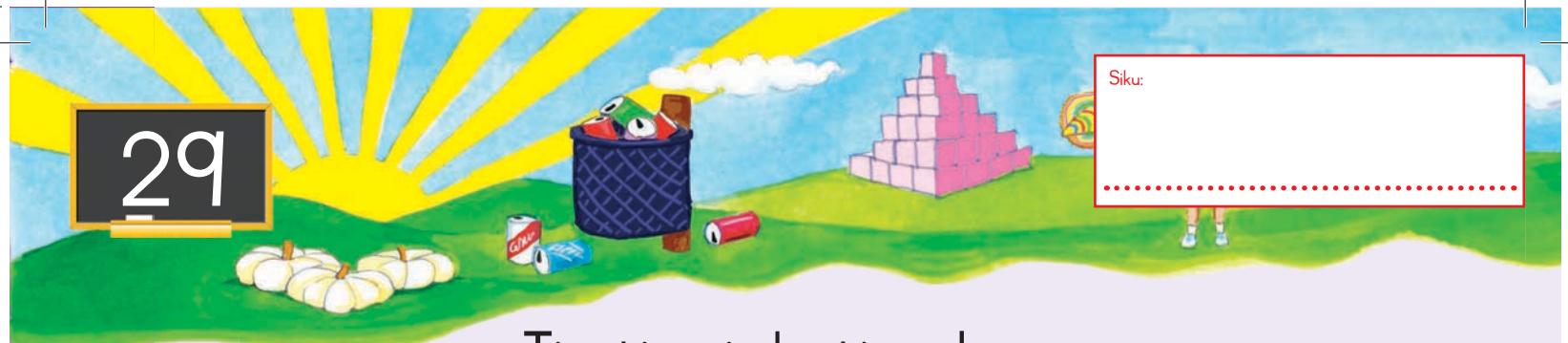
3 wa tihomu ti na _____ wa milenge.	$4 + 4 + 4 = 4 \times 3 =$ <u>12</u>
5 wa tihomu ti na _____ wa milenge.	
4 wa tihomu ti na _____ wa milenge.	
7 wa tihomu ti na _____ wa milenge.	
8 wa tihomu ti na _____ wa milenge.	



### Mindzhati ya mitsengo

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





Siku:

# Tipatironi eka tinomboro



## Tipatironi ta giridi

Xana swirhendzevutana eka qiridi ujin'wana ya 100 swi kombisa patironi yihii 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:

A Go board diagram consisting of a 19x19 grid of light blue lines. On the left side, there is a vertical column of black circular stones, one on each horizontal row from the 4th to the 18th. The rest of the board is empty.

b. Patironi:

A 10x10 grid of squares. There are 10 black circles, one in each row, located at the intersections of the 2nd, 4th, 6th, 8th, and 10th columns.

c. Patironi:

A Go board diagram illustrating a specific board setup or pattern. The board is a 19x19 grid. Black stones are placed at the following intersections:

- Central vertical column: (10, 10), (11, 10), (12, 10), (13, 10), (14, 10), (15, 10), (16, 10), (17, 10), (18, 10)
- Central horizontal row: (10, 10), (10, 11), (10, 12), (10, 13), (10, 14), (10, 15), (10, 16), (10, 17), (10, 18)
- Diagonal lines:
  - From top-left to bottom-right: (10, 10), (11, 11), (12, 12), (13, 13), (14, 14), (15, 15), (16, 16), (17, 17), (18, 18)
  - From top-right to bottom-left: (10, 10), (9, 11), (8, 12), (7, 13), (6, 14), (5, 15), (4, 16), (3, 17), (2, 18)
- Other stones: (10, 11), (11, 11), (12, 11), (13, 11), (14, 11), (15, 11), (16, 11), (17, 11), (18, 11)

d. Patironi:

A Go board diagram consisting of a 13x13 grid of lines forming 19x19 intersections. There are 10 black circular stones placed on the board at the following coordinates: (3, 3), (3, 7), (3, 10), (5, 5), (7, 3), (7, 7), (7, 10), (9, 3), (9, 7), and (9, 10). The grid lines are thin and light gray, and the intersections are marked by small squares.

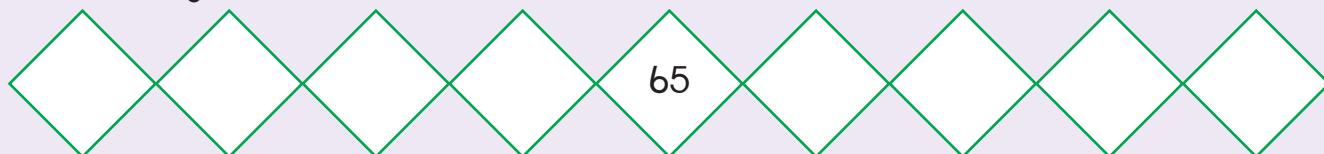


## Endla tipatironi ta wena n'wini

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



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



### Xana ti wela kwihi?



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 Ileyi 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? **\_\_\_\_\_**.



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

30a



Siku:

Kotara ya |



Ava swiitsi

## Ku avanyisa



- a. Ava 30 wa swiitsi exikarhi ka 2 wa vana.



Hi nga yi tsala tanahi

$$30 \div 2 = 15$$

- b. Ava swiitsi exikarhi ka 3 wa vana.



$$\div =$$

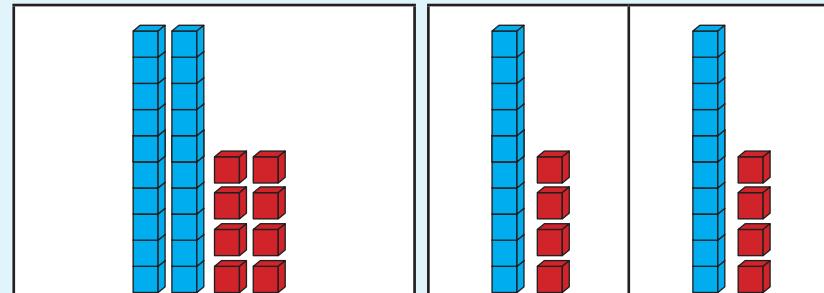
- c. Avanyisa swiitsi exikarhi ka 5 wa vana.



$$\div =$$



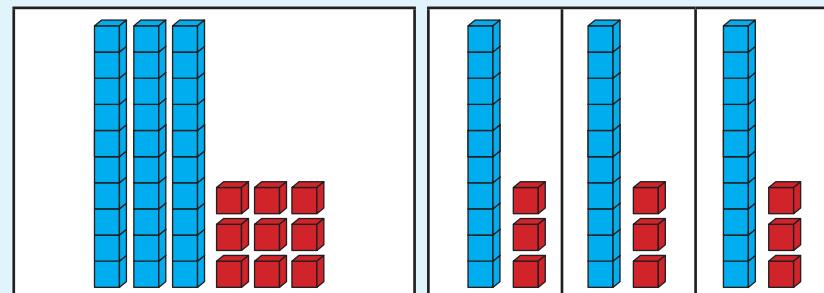
Hi nga tirthisa tibuloko ta tinomboro ku kota ku avanyisa.



$$\begin{array}{r} 2 \boxed{8} \\ \div \boxed{2} \\ = \end{array} \quad \begin{array}{r} \boxed{1} \boxed{4} \end{array}$$

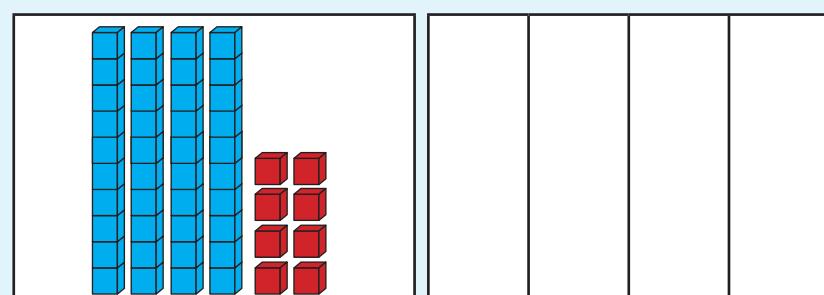
Sweswi endla leti.

a.



$$\begin{array}{r} \boxed{\phantom{0}} \boxed{\phantom{0}} \\ \div \boxed{3} \\ = \end{array} \quad \begin{array}{r} \boxed{\phantom{0}} \boxed{\phantom{0}} \end{array}$$

b.



$$\begin{array}{r} \boxed{\phantom{0}} \boxed{\phantom{0}} \\ \div \boxed{4} \\ = \end{array} \quad \begin{array}{r} \boxed{\phantom{0}} \boxed{\phantom{0}} \end{array}$$



Teacher:
Sign:
Date:

30b

Siku:

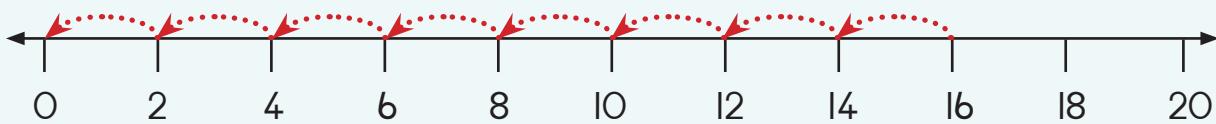
## Ku avanyisa (ku yisa emhlweni)

Kotara ya |



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

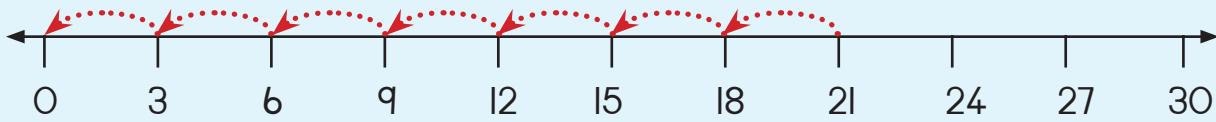
Xikombiso:



$$16 - 2 - 2 - 2 - 2 - 2 - 2 - 2 = 0$$

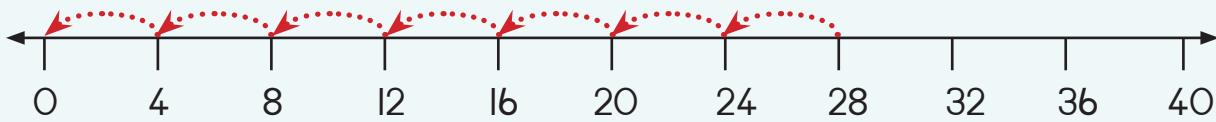
$$16 \div 2 = 8$$

a.



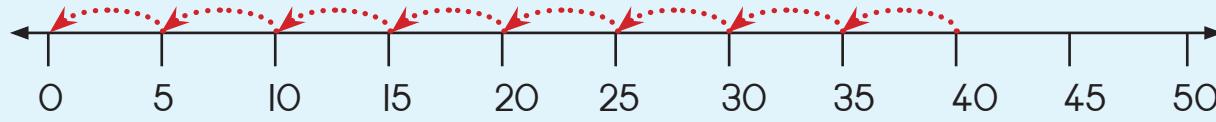
$$\begin{array}{r} 21 - \\ \hline \boxed{\phantom{0}} \end{array} =$$
  
$$\boxed{\phantom{0}} \div \boxed{\phantom{0}} =$$

b.



$$\begin{array}{r} 28 - \\ \hline \boxed{\phantom{0}} \end{array} =$$
  
$$\boxed{\phantom{0}} \div \boxed{\phantom{0}} =$$

c.



$$\begin{array}{r} \hline \boxed{\phantom{0}} - \\ \hline \boxed{\phantom{0}} \end{array} =$$
  
$$\boxed{\phantom{0}} \div \boxed{\phantom{0}} =$$



Dirowa ndzhati wa mitsengo u kuma nhlamulo.

a.  $30 \div 5 =$



b.  $22 \div 2 =$



c.  $27 \div 3 =$



d.  $32 \div 4 =$



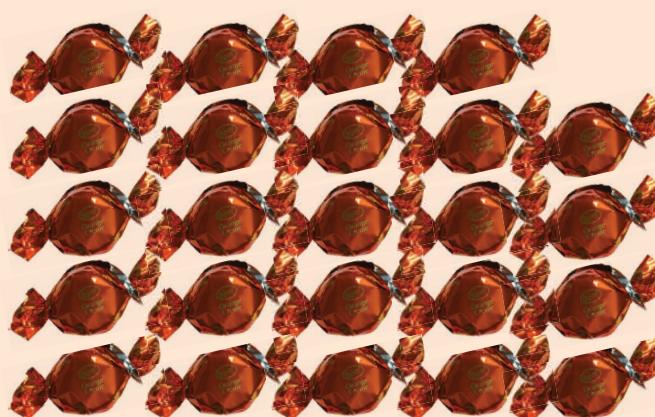
e.  $25 \div 5 =$



### Ntlhontlho

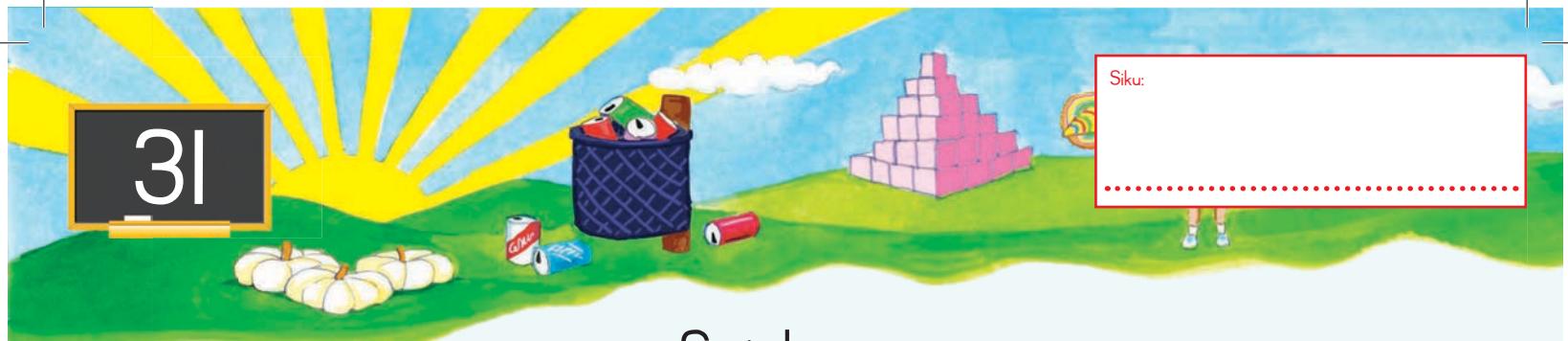
Kombisa tindlela hinkwato to avanyisa 24 wa swiwi tsyi hi ku ringana exikarhi ka mintlawa mimbirhi ya vana.

Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.



Teacher:  
Sign:  
Date:

31



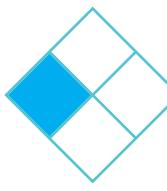
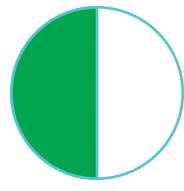
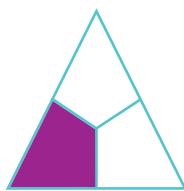
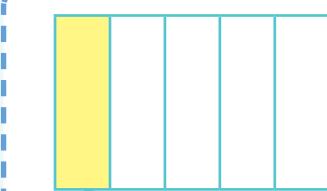
Siku:

Kotara ya |



## Swiphemu

Dirowa mitila ku yelanisa xivumbeko na xiphemu.

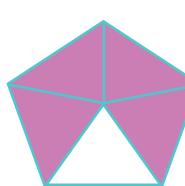
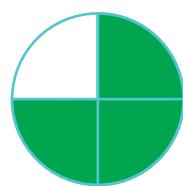
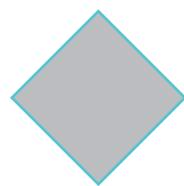


$$\frac{1}{3} \text{ n'we-xa-nharhu}$$

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

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

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



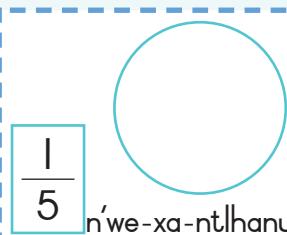
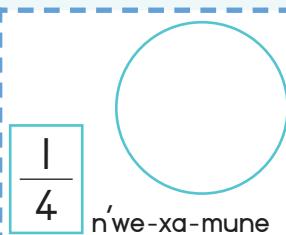
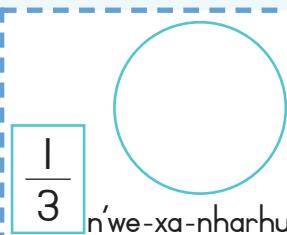
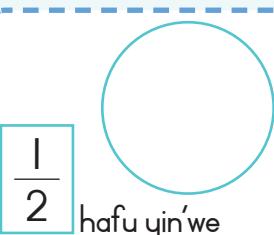
$$\frac{3}{4} \text{ nharhu-xa-mune}$$

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

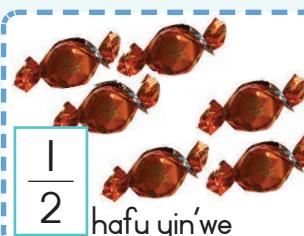
$$1 \text{ xiheri}$$

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

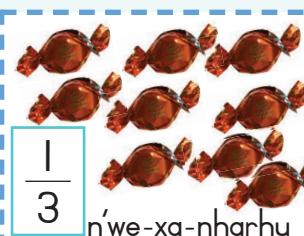
Khalara:



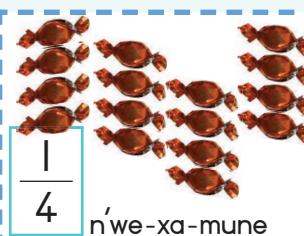
Kombisa \_\_\_\_ ya swiwitsi:



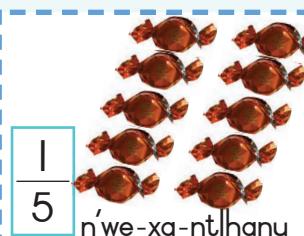
$$\frac{1}{2} \text{ hafu yin'we}$$



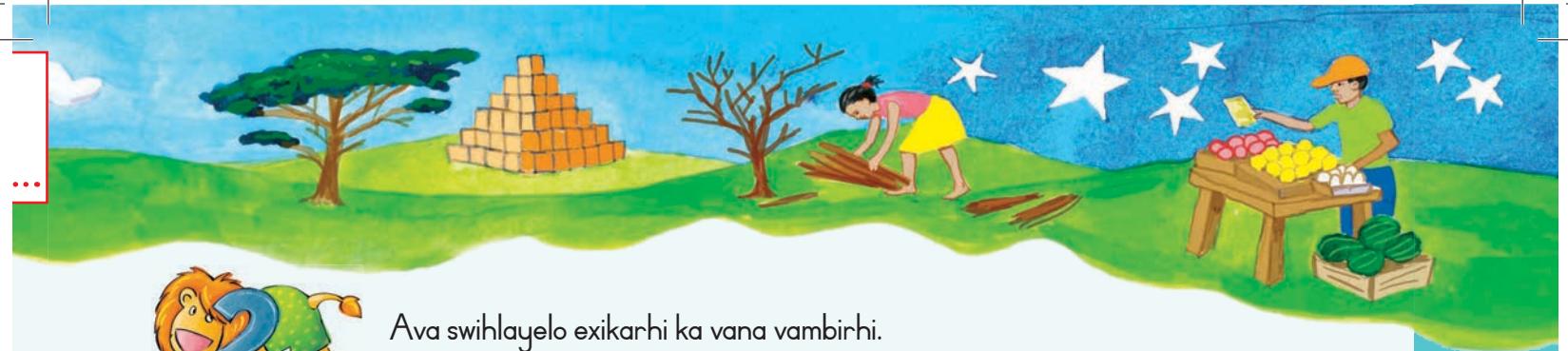
$$\frac{1}{3} \text{ n'we-xa-nharhu}$$



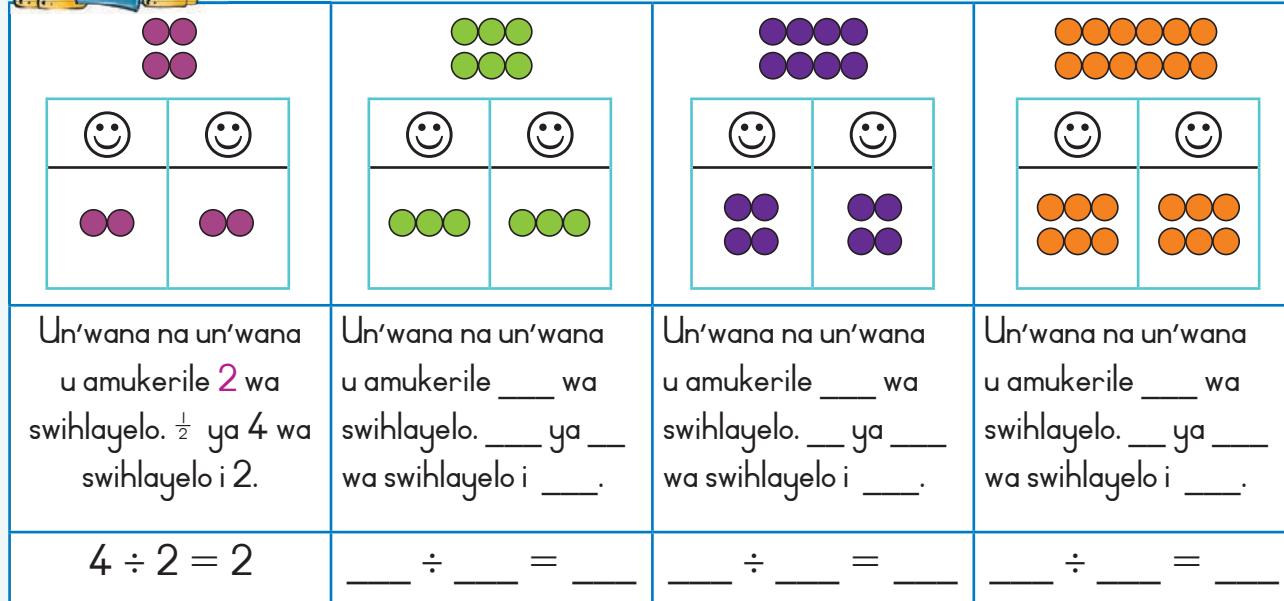
$$\frac{1}{4} \text{ n'we-xa-mune}$$



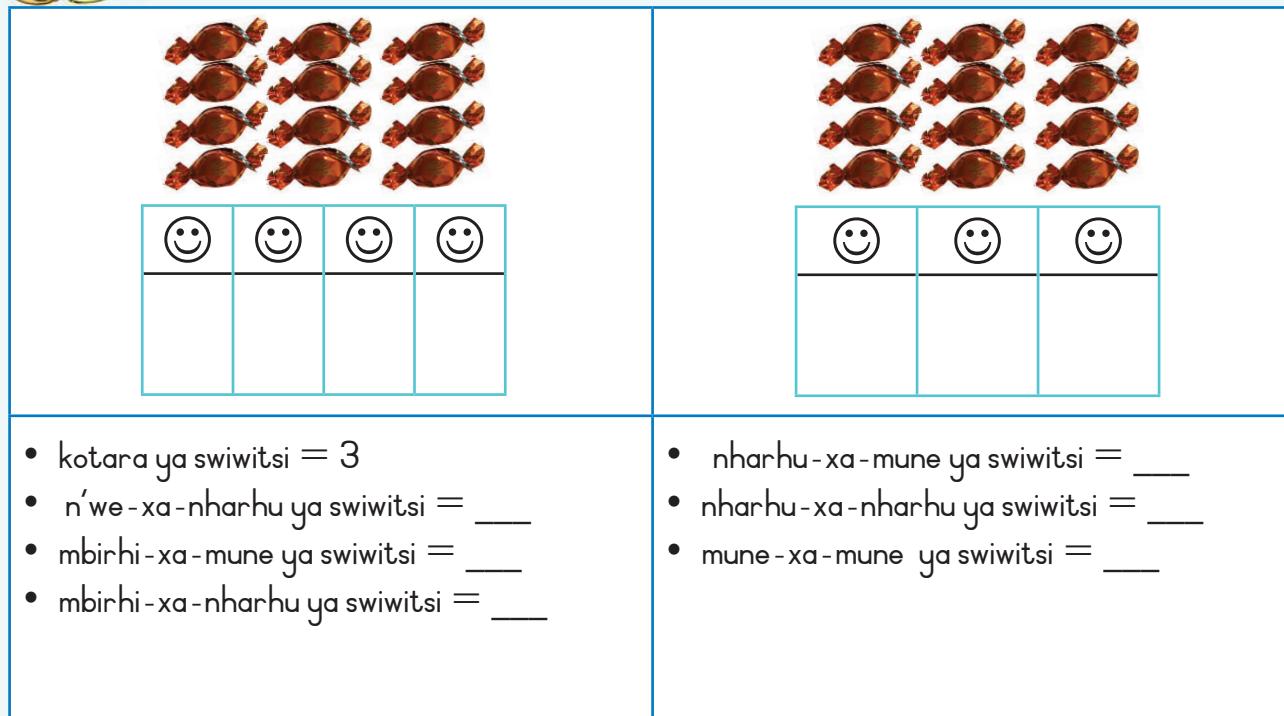
$$\frac{1}{5} \text{ n'we-xa-ntlhanu}$$



Ava swihlayelo exikarhi ka vana vambirhi.



Aya swiwit si exikarbi ka yana.



A horizontal ruler scale with markings from 11 to 20. Each number is accompanied by a short vertical tick mark below it.

32



Siku:

Kotara ya |



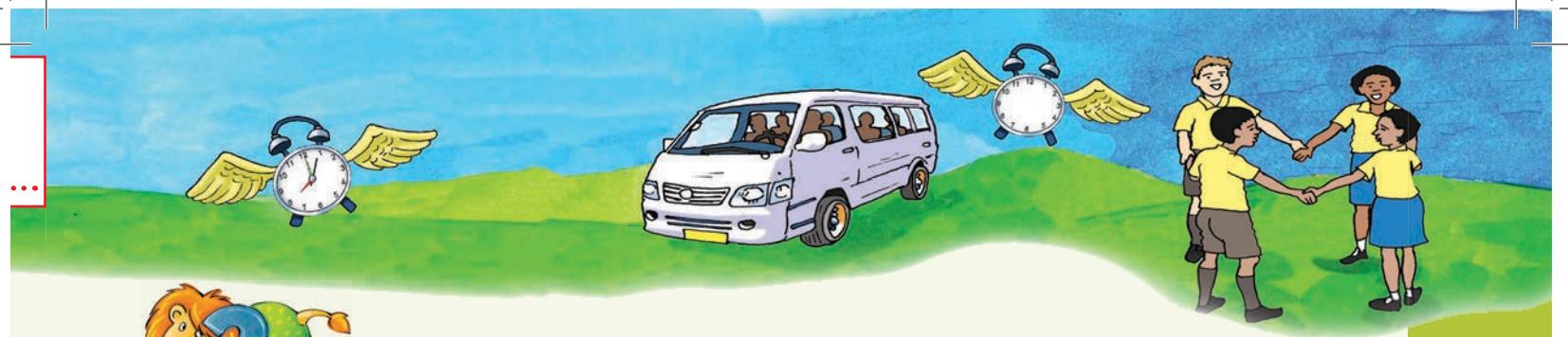
Fambelo ra wachi

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

A clock face with the hour hand at 2 and the minute hand at 3, highlighted with a red circle.	A clock face with the hour hand between 5 and 6 and the minute hand at 6, highlighted with a green circle.	A clock face with the hour hand between 9 and 10 and the minute hand at 9, highlighted with a blue circle.
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.

A clock face with the hour hand between 1 and 2 and the minute hand at 6, highlighted with a yellow circle.	A clock face with the hour hand at 8 and the minute hand at 12, highlighted with a red circle.	A clock face with the hour hand between 4 and 5 and the minute hand at 6, highlighted with a green circle.
_____	_____	_____

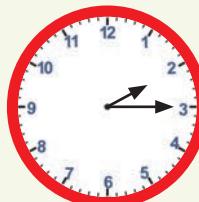
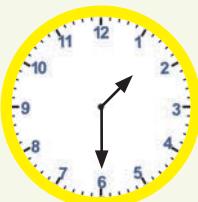


## Ku ya ekaya

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.

- 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.
- Xana i mavhiki mangani yo helela hinkwawo ka wona? \_\_\_\_\_. Xana i masiku mangani ma nga sala? \_\_\_\_\_. Xana i masiku mangani hinkwawo ka wona? \_\_\_\_\_. Xana i masiku mangani? \_\_\_\_\_
- 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? \_\_\_\_\_

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

Kambisia. Ringanisa.  
Lulamisa.



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

33



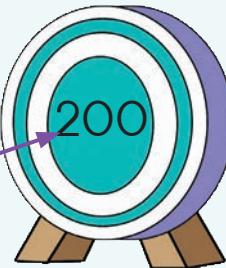
Siku;

# 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.



I01	I02						
III							
I21							
I31							
							I49
		I54					
				I65			
		I73					I80
I81				I86			
			I98				200



Tsala tinomboro

- a. Tsala nomboro leyi siyiweke eka xikwere xin'wana na xin'wana xa wasi.
  - b. Tsala tinomboro leti in'wana hinkwato.
  - c. Tsala 10 ya tinomboro leti landzelaka endzhaku ka 200.

200;      ;      ;      ;      ;      ;      ;      ;      ;



Tsala tinomboro leti sijiweke.



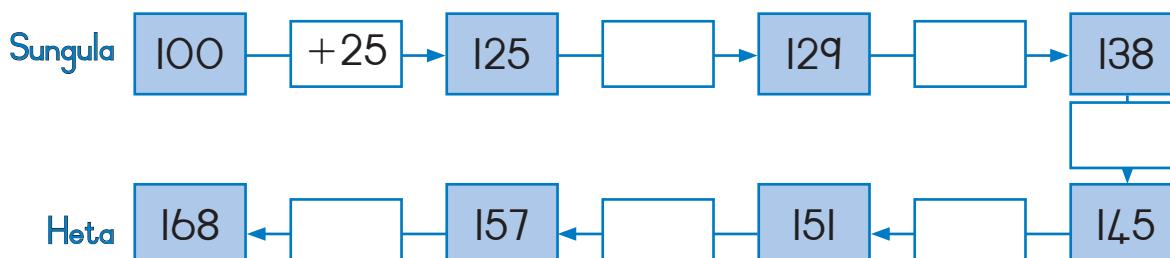
Hetjisa

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



## Ku hlayela ku suka eka 100

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



Teacher:  
Sign:  
Date:

A horizontal ruler scale with markings every millimeter. The numbers 11 through 20 are displayed above the scale, each aligned with its corresponding tick mark.

34

Siku:

Kotara ya 2



## 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? \_\_\_\_\_

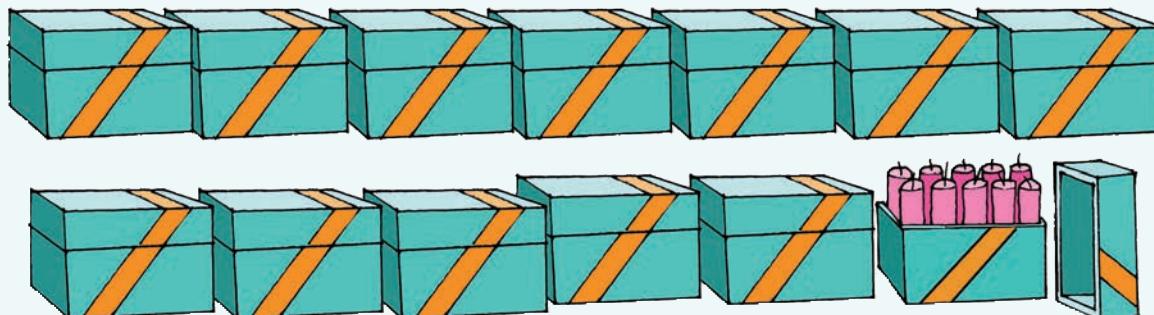
Xana ku na mabokisi mangani eka rhaka yin'wana na yin'wana? \_\_\_\_\_

Ku na makhandhlela mangani eka rhaka yin'wana na yin'wana? \_\_\_\_\_



## 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蠟	4 wa mabokisi, _____ ya ma蠟
5 wa mabokisi, _____ ya ma蠟	3 wa mabokisi, _____ ya ma蠟
6 wa mabokisi, _____ ya ma蠟	7 wa mabokisi, _____ ya ma蠟

- c. Xana i mabokisi mangani ya lavekaka eka:

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



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

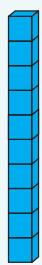
vu-100	vu-10	vu-1

Kun'we hi na 12 ya vukhume.  
Hi nga veka 10 ya vukhume kun'we ku vumba dzana ri l.

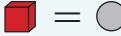
--	--	--



A hi ringete.

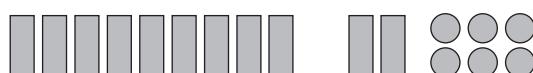


na



= ○

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  
||||| ||||| ||||| ||||| ||||| |||||

# 35b

Siku:

Kotara ya 2



## 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? Kambisia nkoka wa ndhawu laha u nga vumba ntlawa nakambe.	Tsala nomboro.
$23 + 99 =$	_____ ya vukhume _____ ya vun'we	$11 \text{ ya vukhume} + 12 \text{ vun'we}$ $= 110 + 12$	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 tanahi vun'we bya khume, kumbe dzana rin'we tanahi 10 ya vukhume.

A hi suse:  $60 - 55 =$

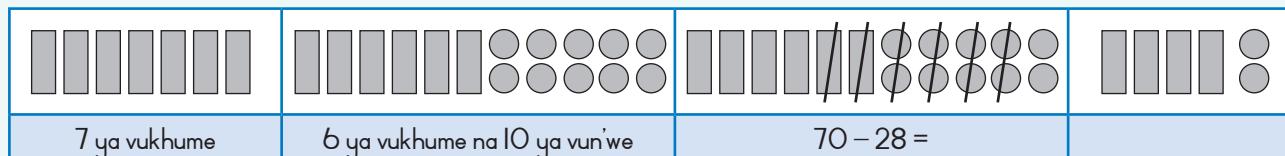
Hi sungula vukhume bya ntsevu naswona ku hava vun'we. Hi lava ku susa vukhume bya ntlnhanu na vun'we bya ntlnhanu. (Vun'we lebyi susiwaka byi khaliariwe hi muhlovo wa mpunga).

Hi nga kombisa vukhume bya ntsevu hi ndlela leyi.	Kumbe tanahi vukhume bya ntlnhanu na vun'we bya khume.	Susa vukhume bya ntlnhanu na vun'we bya ntlnhanu. Vun'we bya ntlnhanu byi sele.	
		$60 - 55 = 5$	



A hi ringete.

a.  $70 - 28$



b. 90-46


c.  $80 - 53$




## Ku kuma phere ya tinomboro

a.

200

b.

200

C.

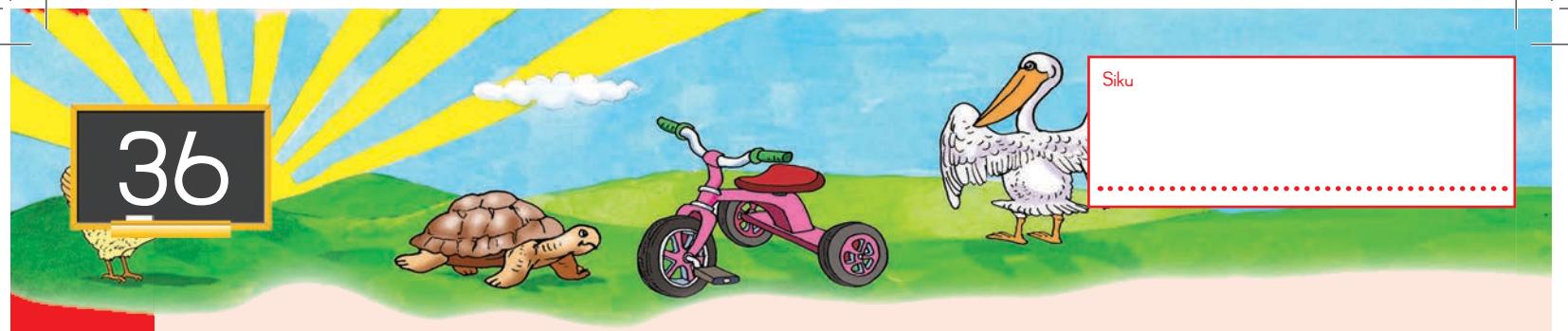
200

d.

200



36



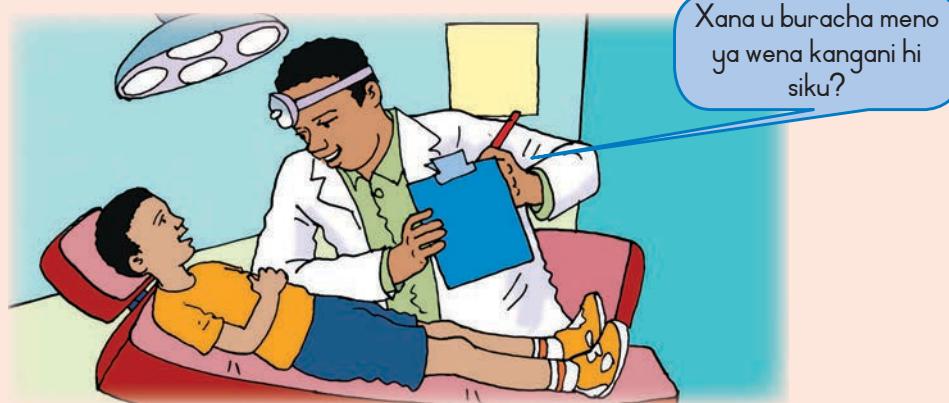
Siku

Kotara ya 2



## 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.



= I

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

- 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.



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



= kan'we



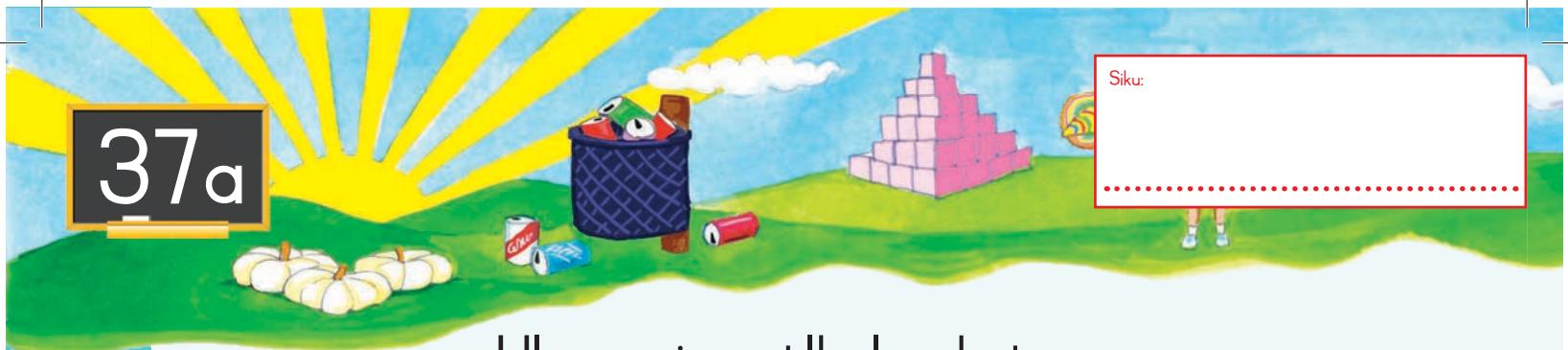
Endla mbalango etlilasini ya n'wina. Vutisa 15 – 20 wa vadyondzi swivutiso.

- a. Xana va buracha meno kangani hi siku? \_\_\_\_\_

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



37a



Siku:

.....

Kotara ya 2

## 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:

$$\begin{array}{r} 50 \boxed{6} \\ + \quad 70 \boxed{3} \\ \hline \end{array}$$

U hlanganisa vu-l kutani a veka ehansi khadi ra vu-q.

**q**

Utsale hi ndlela leyi:  

$$\begin{aligned} 50 + 70 + 6 + 3 \\ = 50 + 70 + q \\ = 120 + q \\ = 100 + 20 + q \\ = 12q \end{aligned}$$

Utiva leswaku:  $50 + 70 = 120$ .

$$\begin{array}{r} 100 \\ + 20 \\ \hline \end{array} \quad \boxed{q}$$

Uteka khadi ra **vudzana**, ra vu-20 na ra vu-q

ku endla nomboro ya 3 wa tidjiti.

Tumi u tiva leswaku tibuloko ti tirha hi ndlela yihi.

U endla  $56 + 73$  hi ndlela leyi:

$$\begin{aligned} 50 + 6 + 70 + 3 \\ \swarrow \quad \searrow \\ 120 + q \\ = 12q \end{aligned}$$



Aakar u rhandza ku katsakanya.

Hi lawa matirhele ya yena eka leyi:

$$\begin{aligned} 56 + 73 \\ = 50 + 70 + 10 - 1 \\ = 130 - 1 = 129 \end{aligned}$$





## 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.



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

$$\cancel{80} + \cancel{7} - \cancel{50} + \cancel{3}$$

$$= 30 + 4$$

$$= 34$$

b.  $95 - 73$

c.  $86 - 62$

d.  $85 - 69$



## 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.

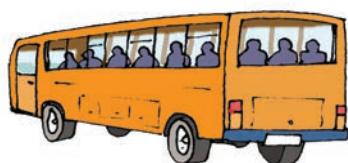
- a. Peter u sungula a kha 34 wa mapencisi kutani endzhaku a kha 67 wa mapencisi.  
Xana i mapencisi mangani hinkwawo ka wona?



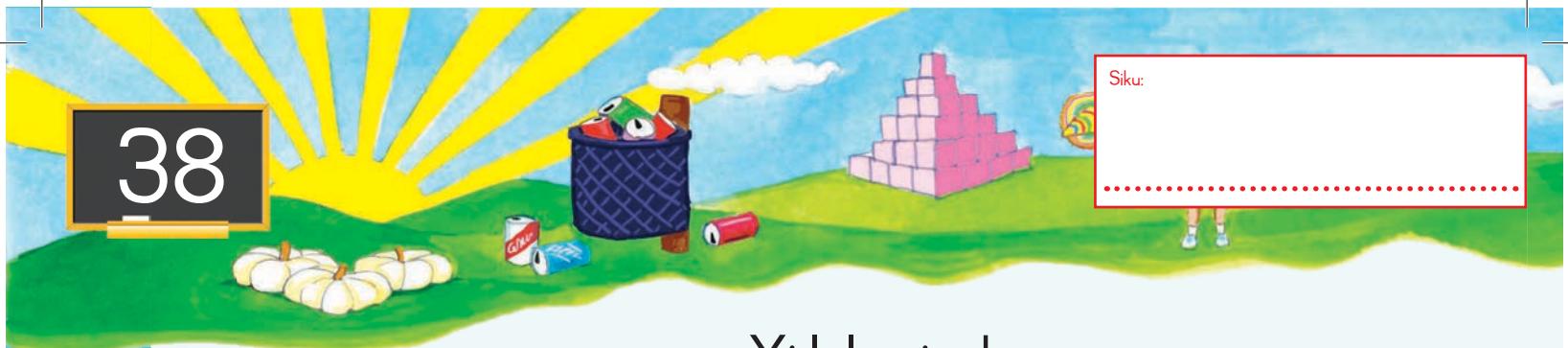
- b. Vana va ka Malusi va hlayisa R47 swin'we.  
Maná wa vona u engetela R58. Xana va na mali muni sweswi?



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



38



Siku:

Kotara ya 2



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.

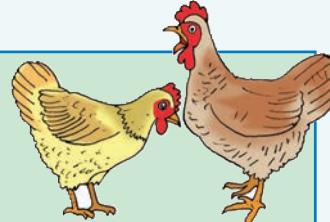
Xana Musa u xavisile mathikithi mangani ku fika sweswi?



## 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.



Xana wa swi tiva leswaku  
hikwalaho ka yini?

Maendlele ya Gugu

$$\begin{aligned} & 60 + 90 + 9 + 5 \\ & = 100 + 50 + 14 \\ & = 150 + 10 + 4 \\ & = 164 \end{aligned}$$



Maendlele ya Aakar

$$\begin{aligned} & 69 + 95 \\ & = 70 + 95 - 1 \\ & = 70 + 90 + 5 - 1 \\ & = 160 + 4 \\ & = 164 \end{aligned}$$



- 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 kambisia.

Tirhisa maendlele ya Aakar



39



Siku:

Kotara ya 2



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.

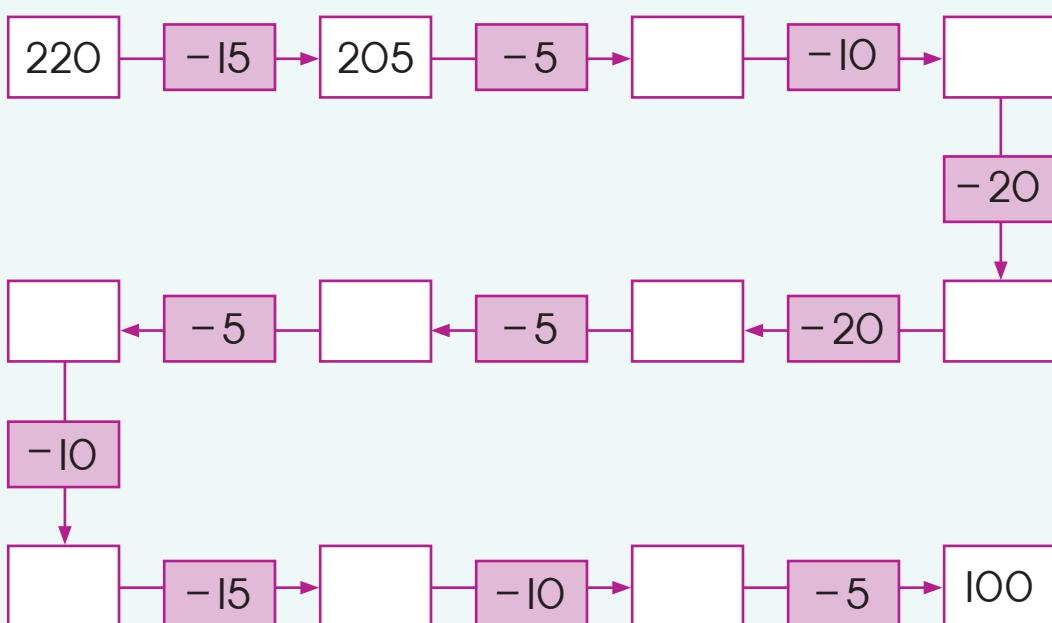
200	
	120



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 kambisia  
tinhlamulo ta  
wena!

Sungula eka  
100! Tirha u  
ya endzhaku eka  
220.

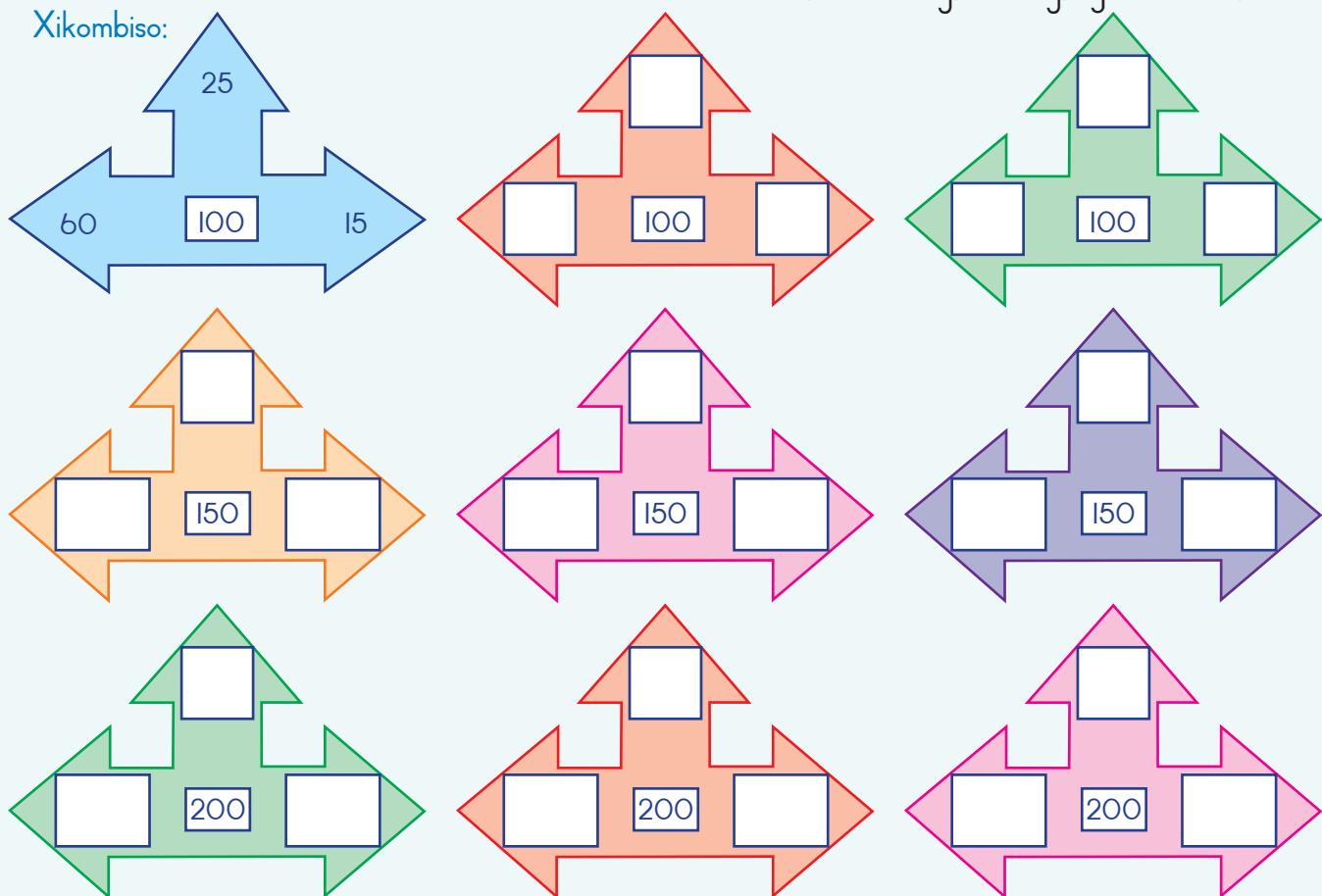
Kambe eka  
nkarhi wa sweswi,  
hlanganisa  
tinomboro!



## 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:



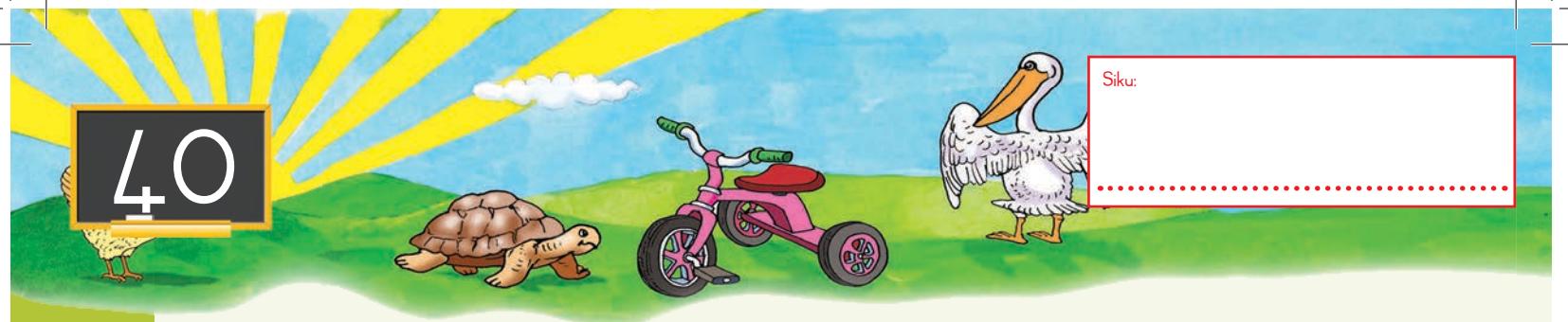
## Ku hundza hi 50 no va ehansi hi 50

Tsala tinhlamulo eka rixaxa ra vumbirhi.

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



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

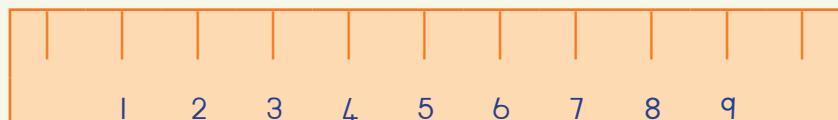
**40**

Siku:

Kotara ya 2



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 O.

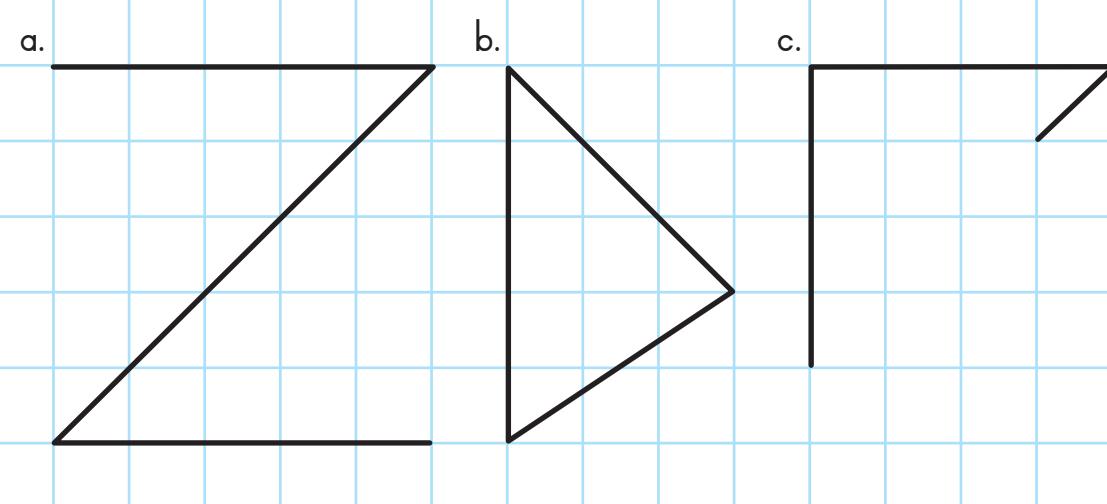
Tirhula tin'wana a ti kombi O ku fana na leyi nga eka pheji leyi.

Kuma ziro cm eka rhula. Tsala O 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 <input type="text"/> cm	b. Pimanyeta <input type="text"/> cm	c. Pimanyeta <input type="text"/> cm
Pima <input type="text"/> cm	Pima <input type="text"/> cm	Pima <input type="text"/> cm



## 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.

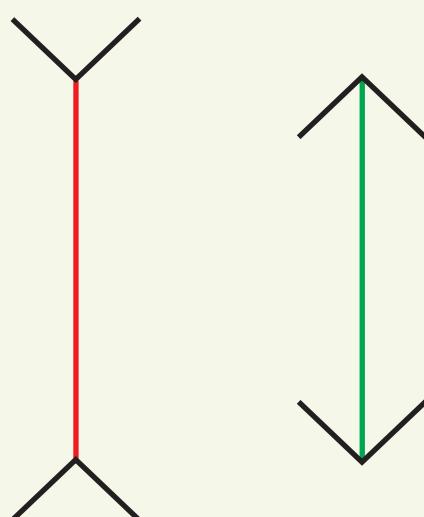
a. —————	<input type="text"/> cm	d.	<input type="text"/> cm
b. —————	<input type="text"/> cm	e. —————	<input type="text"/> cm
c. —————	<input type="text"/> cm	f. —————	<input type="text"/> cm



## Xana wa tshemba?

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

Xana u nga kambisia 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.





Kotara ya 2

# Thagete ya 300



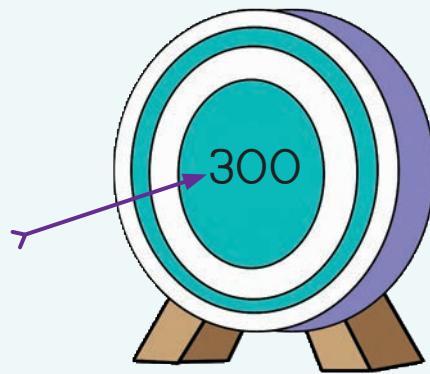
## Ku hlayela no tsala vu -200

Hlayela ku suka eka 201 ku fika eka 300.

Kombetela loko u karhi u hlayela u ya emahlweni.

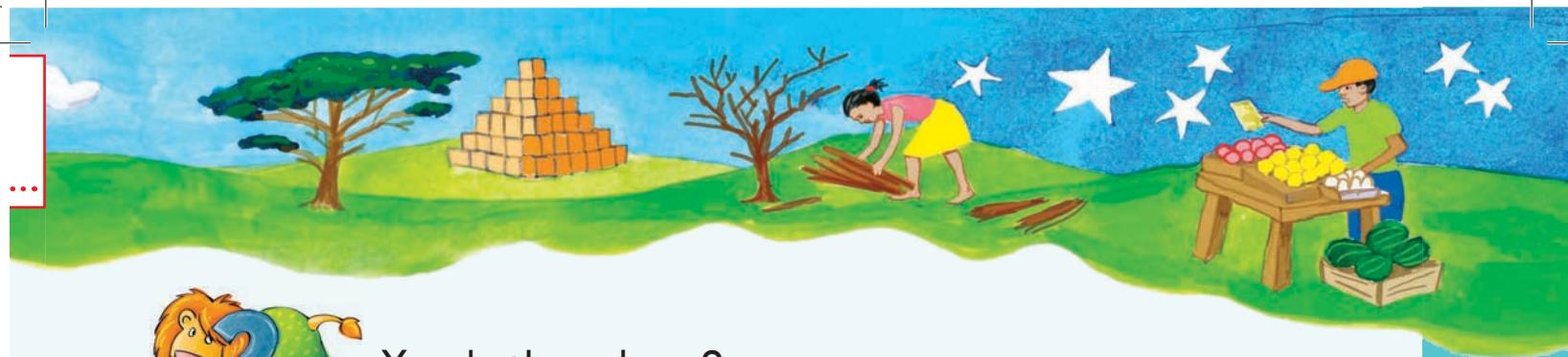
Kutani tata tinomboro ta wasi ku sungula.

Tsala tinomboro letin'wana hinkwato.



Tsala 10 ya tinomboro endzhaku ka 300.

300; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_



Xana ku tluriwe hi yini?

30I

28I

I7I

2II

I0I



Ku kombisa no ringanisa

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

298;

208;

30I;

276;

227;

269;

3II

**2 0 0**  
**9 0**  
8

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

\_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Hi kwihi ku cinca? Tsala tinomboro leti siyiweke.

Sungula



Heta



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||

42



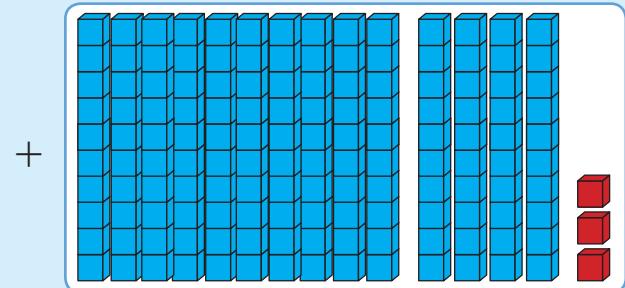
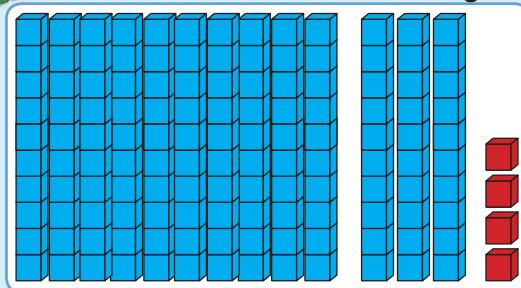
Siku:

Kotara ya 2



## Ku hlanganisa no susa hi vu -100

Ku tirhisa tibuloko ku hlanganisa



$$100 \boxed{30} \boxed{4} +$$

$$100 \boxed{40} \boxed{3}$$

$$= 200 \boxed{70} \boxed{7}$$

$$= \boxed{277}$$



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

a.  $132 + 123$

Maendlele ya Busi

$$\begin{aligned} &= 100 + 100 + 30 + 20 + 2 + 3 \\ &= 200 + 50 + 5 \\ &= 255 \end{aligned}$$



Maendlele ya Tumi

$$\begin{aligned} &\cancel{132} + \cancel{123} \\ &= 200 + 50 + 5 \\ &= 255 \end{aligned}$$



b.  $114 + 162$



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

$$\begin{aligned} &= 100 - 100 + 50 - 40 + 8 - 6 \\ &= 0 + 10 + 2 \\ &= 12 \end{aligned}$$



Maendlele ya Tumi

$$\begin{aligned} &\cancel{1} \cancel{5} \cancel{8} - \cancel{1} \cancel{4} \cancel{6} \\ &= 0 + 10 + 2 \\ &= 12 \end{aligned}$$

b.  $194 - 122$

c.  $288 - 199$



11 12 13 14 15 16 17 18 19 20  
 ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....

qq

43

Siku:

Kotara ya 2

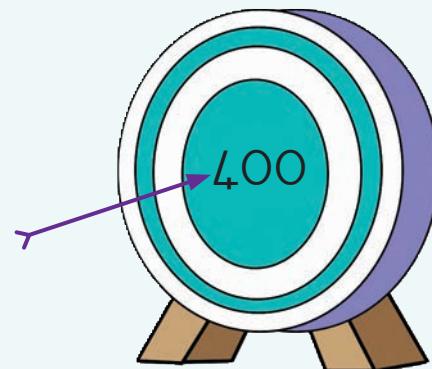


Ku hlayela no tsala vu - 400

Hlayela ku suka eka 300 ku fika eka 400.

Vula tinomboro loko u ri karhi u hlayela.

Tsala nomboro leyi siyjiveke eka giridi.



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

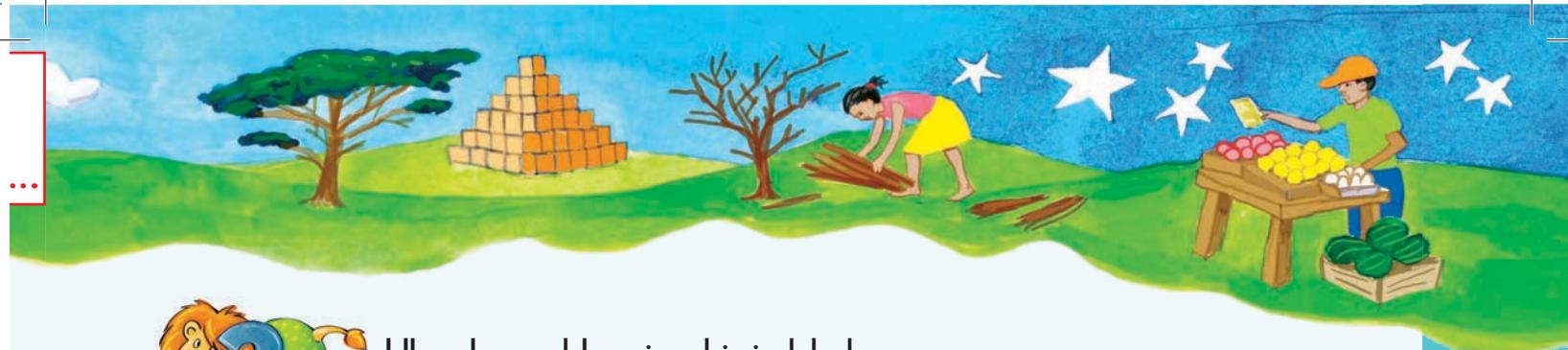


Tsala 9 ya tinomboro leti landzelaka endzhaku ka 400.

400; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;

100

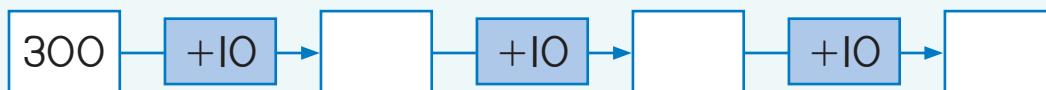
1 2 3 4 5 6 7 8 9 10



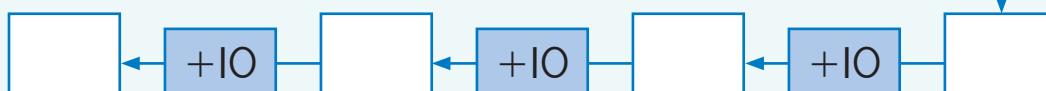
## Hlayela emahlweni na hi xindzhaku

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

Sunqula



Heta

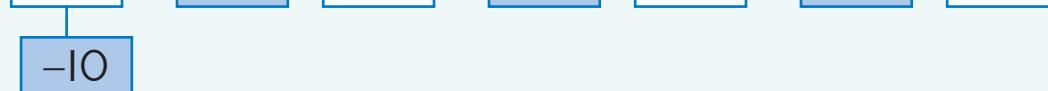


- b. Hlayela ku suka eka 400 hi vukhume.

Sungulg



1



1



Heta



Tsala tanihu nomboro yin'we.

$$300 + 20 + 4 =$$

$$300 + 10 + 5 =$$

$$300 + 50 + 3 =$$

$$300 + 70 + 7 =$$

$$300 + 60 + 2 =$$

$$300 + 90 + 9 =$$

$$300 \pm 80 \pm 1 \equiv$$

$$300 + 10 + 8 =$$

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

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_





Siku:

## Kotara ya 2

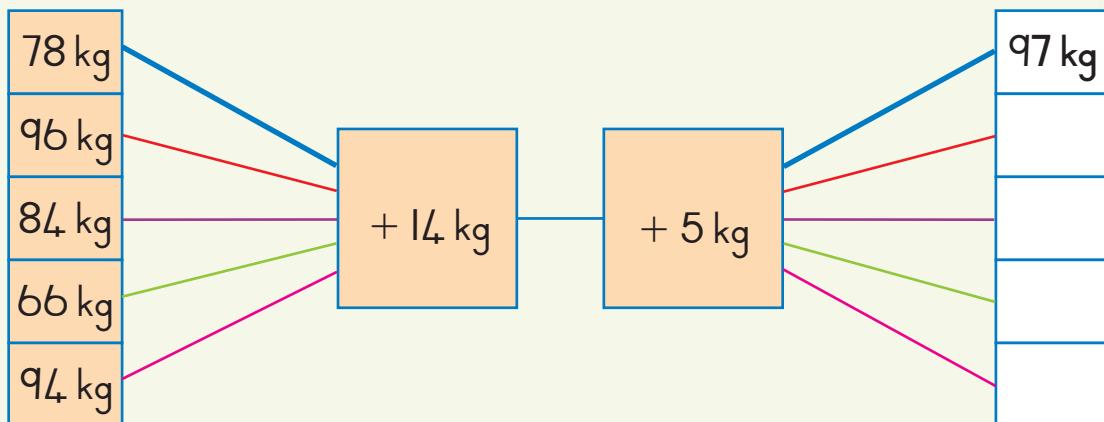


Nomboro yo hlawuleka

Hlanganisa u tlhela u tsala tinhlamulo.



## Ku pima



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.



## 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
+			
+  +			
+  +			



## Ntiko wa Vusi

Kambisia. Ringanisa. Lulamisa.

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.



45



Siku:

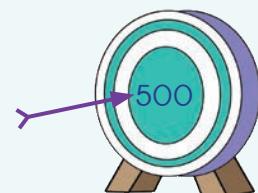
.....

Kotara ya 2



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; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

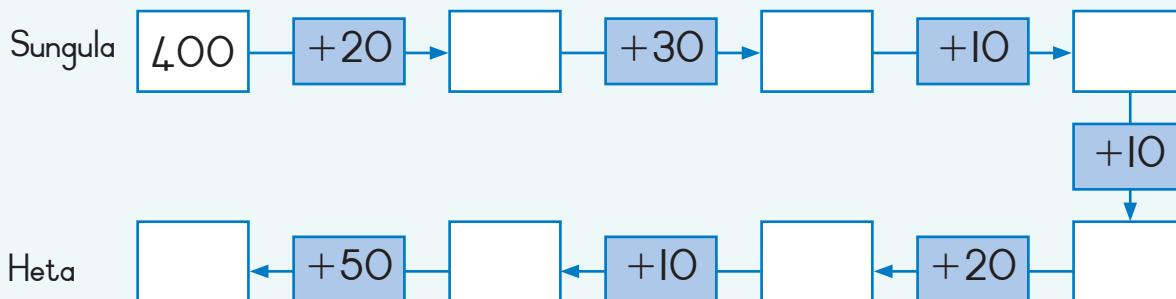
- e. Hlayela hi vu-5. Tsala 8 wa tinomboro leti landzelaka hi **patironi ya vu-5**.

400; 405; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

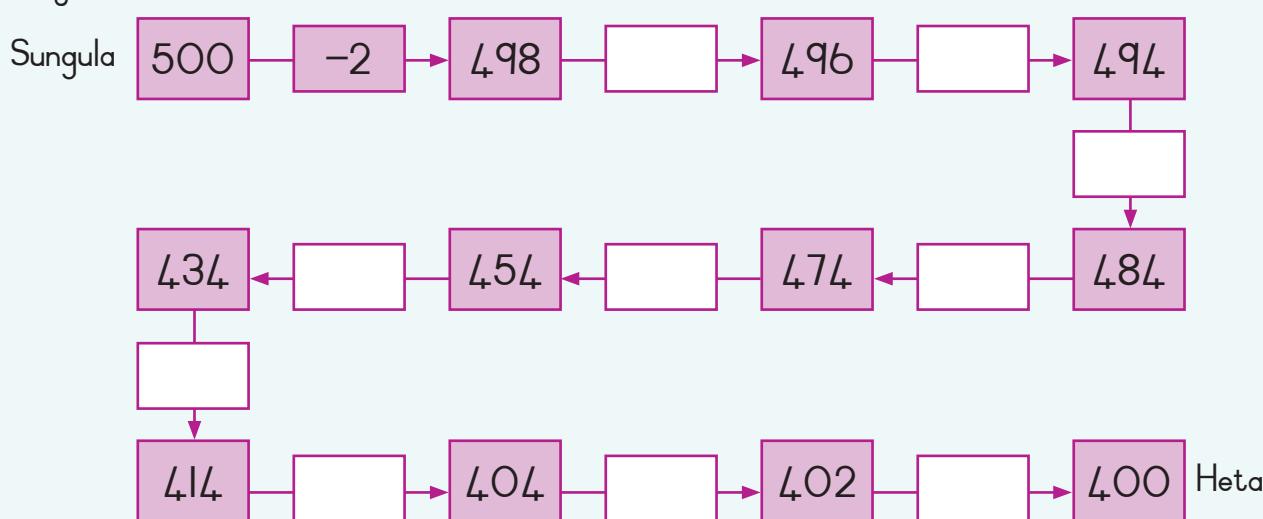


### Xana ku cinca hi kwihi?

- a. Hlayela u ya endzhaku ku suka eka 400.



- b. Hlayela hi xindzhaku ku suka eka 500.



### Kombisa tinomboro. Landzelela xikombiso

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

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

$398 + 10$		
$424 + 10$		
$460 + 20$		



46



Siku:

Kotara ya 2

## Ku hlanganisa no susa kun'wana

$$\begin{array}{r} 200 \\ + 200 \\ \hline 400 \end{array} \quad \begin{array}{r} 50 \\ + 30 \\ \hline 80 \end{array} \quad \begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 400 \\ + 80 \\ \hline 480 \end{array} \quad 9$$

$$489$$



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

a.  $245 + 231$

Maendlele ya Busi

$$\begin{aligned} &= 200 + 200 + 40 + 30 + 5 + 1 \\ &= 400 + 70 + 6 \\ &= 476 \end{aligned}$$



Maendlele ya Tumi

$$\begin{aligned} &\cancel{\begin{array}{r} 245 \\ + 231 \\ \hline 476 \end{array}} \\ &= 400 + 70 + 6 \\ &= 476 \end{aligned}$$

b.  $278 + 136$

c.  $265 + 148$



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

a.  $476 - 324$

Maendlele ya Busi

$$\begin{aligned} &= 400 - 300 + 70 - 20 + 6 - 4 \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$



Maendlele ya Tumi

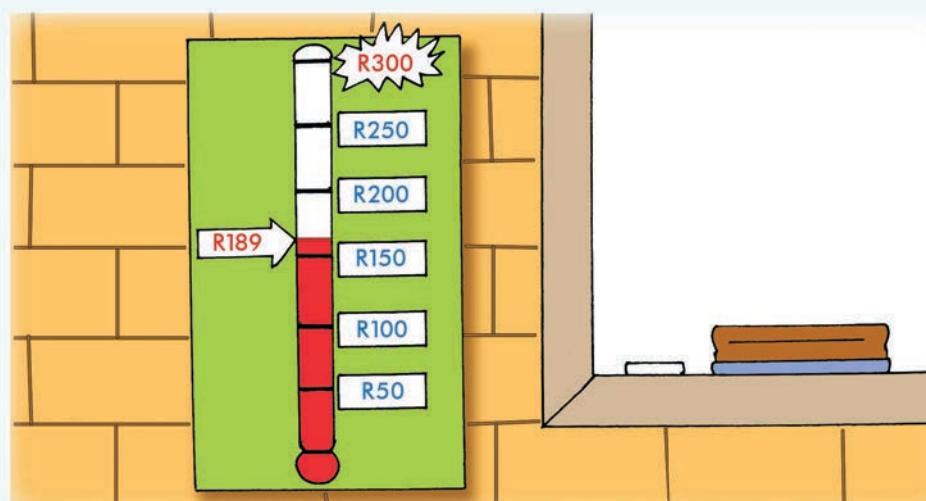
$$\begin{aligned} &\cancel{4} \cancel{7} 6 + \cancel{3} \cancel{2} 4 \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$

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:

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 kumisia. Pananisa nhlamulo yin'wana etafuleni na letere leri nga eka khodi.

A	B	C	D	E	F	G	H	I	J	K	L	M
I	2	3	4	5	6	7	8	q	IO	II	I2	I3
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
I4	I5	I6	I7	I8	I9	20	2I	22	23	24	25	26

Vuthala bya tinomboro	Nhlamulo	Letere
Xikombiso: $2 \times 3 \times 3 \times 1 = \square$	18	R
$50 + 50 + 50 + 100 - 200 - 45 = \square$		
$1 + 2 + 7 + 10 + 7 + 1 - I4 = \square$		
$60 - 30 + 50 + 20 - 50 - 15 - 20 = \square$		
$3 + 2 + 7 + 1 + 2 + 1 + 3 = \square$		
$5 + 3 + 30 = 4 + 2 + I2 + \square$		
$100 - 5 - 70 = 20 + \square$		
$36 + 44 - 60 - 2 = \square$		
$10 + I5 = I4 + \square$		
$2 + 1 + I4 + q + I4 = 25 + \square$		
$I \times 2 \times 2 \times 2 \times 2 = \square$		

Vito ra ntshava i



Languta! Ehleketa no hlamula!

●	*	☽	*	●	●	*	☽	*	●	●	*	☽	*	●
I	2	3	4	5	6	7	8	9	10	II	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?



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 I Mhawuri.

Kombisa matirhele ya wena.

Kambisia. Fananisa. Lulamisa.



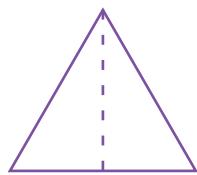
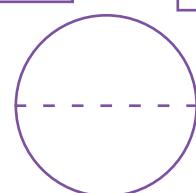
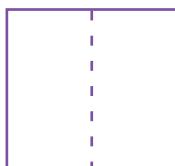
11 12 13 14 15 16 17 18 19 20  
||||||||||||||||||||||||||||||||||

48

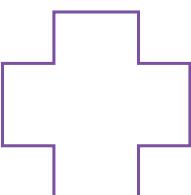
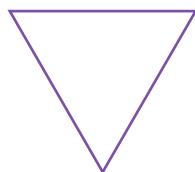
Siku:

Kotara ya 2

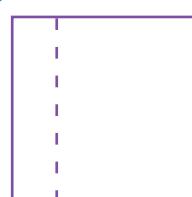
Xana u lemuka yini hi swivumbeko leswi?



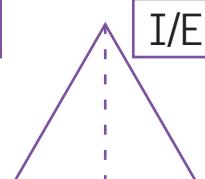
Dirowa ntila wa ndzinganiso eka xivumbeko xin'wana na xin'wana?



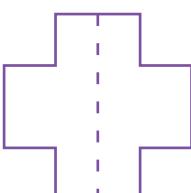
Xana ntila wa mathonsi i ntila wa ndzingano kumbe a hi wona? Tsala xirhendzevutana eka Ina (I) kumbe E - e (E)



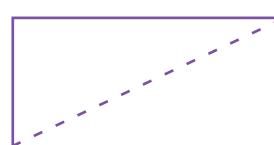
I/E



I/E



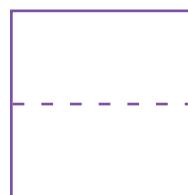
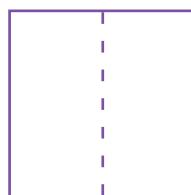
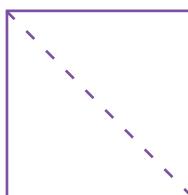
I/E



I/E



Xana lowu i ntila wa ndzinganiso? Hikwalaho ka yini?

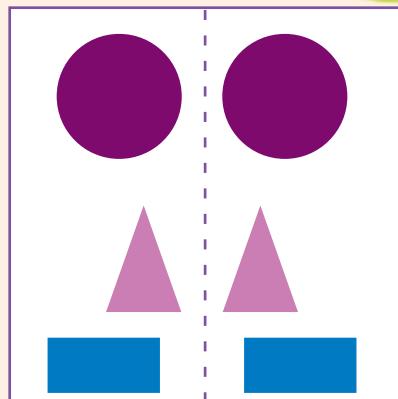




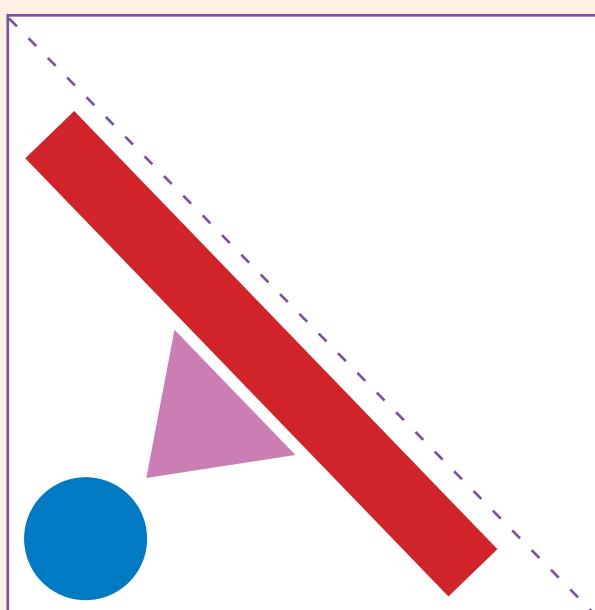
Dirowa swivumbeko ku endla leswaku xifaniso xi  
va na ndzingano.

Hi ku endlele xo sungula.

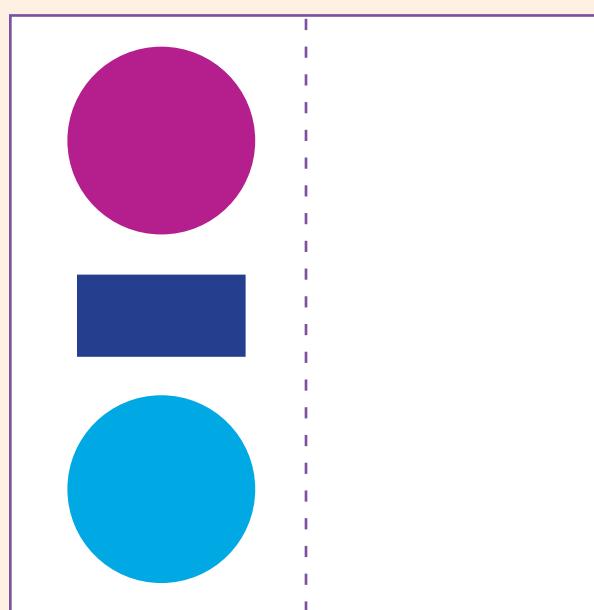
a.



b.



c.



Tumbuluxa  
khpete ya wena  
ya ndzingano  
hi ku tirhisa  
swivumbeko.



49



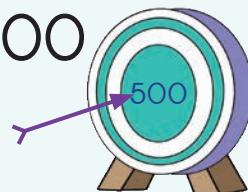
Siku:

.....

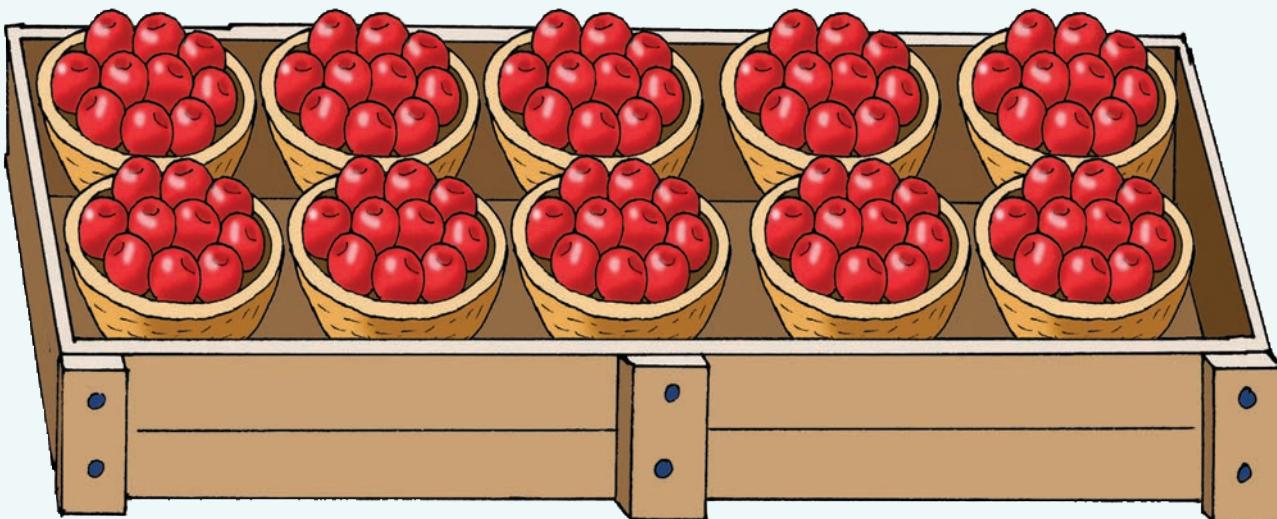
Kotara ya 2



Ku hlayela maapula



Ku aka ku fika eka 500



Hetisa u tlhela u andzisa

I khireti yi khoma _____ wa maapula.	$I \times 10 = 10$
3 wa tikhireti ti khoma _____ wa maapula.	$3 \times 10 =$
5 wa tikhireti ti khoma _____ wa maapula.	
4 wa tikhireti ti khoma _____ wa maapula.	
2 wa tibasikitit i khoma _____ wa maapula.	

I 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.

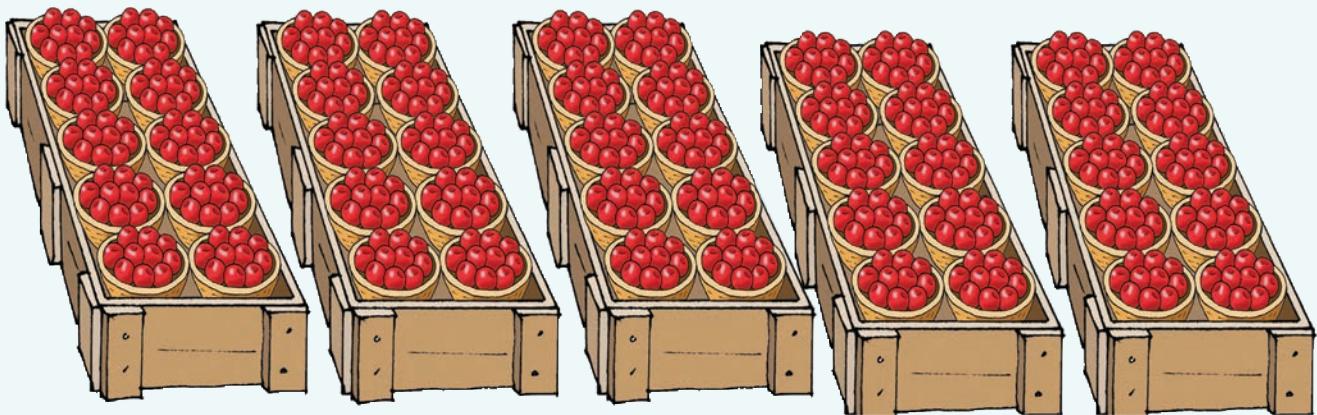


Ku na 10 wa maapula endzeni ka basikit.

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

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

300

40

5

$$3 \text{ wa tikhireti } \begin{array}{|c|}\hline \text{apples} \\ \hline \end{array} + 4 \text{ wa tibasikiti } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} + 5 \text{ wa maapula } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} = 345 \text{ wa maapula}$$

$$4 \text{ wa tikhireti } \begin{array}{|c|}\hline \text{apples} \\ \hline \end{array} + 5 \text{ wa tibasikiti } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} + 7 \text{ wa maapula } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} = \underline{\quad} \text{ wa maapula}$$

$$5 \text{ wa tikhireti } \begin{array}{|c|}\hline \text{apples} \\ \hline \end{array} + 2 \text{ wa tibasikiti } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} + 3 \text{ wa maapula } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} = \underline{\quad} \text{ wa maapula}$$

$$4 \text{ wa tikhireti } \begin{array}{|c|}\hline \text{apples} \\ \hline \end{array} + 7 \text{ wa tibasikiti } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} + 2 \text{ wa maapula } \begin{array}{|c|}\hline \text{apple} \\ \hline \end{array} = \underline{\quad} \text{ wa maapula}$$



50



Siku:

.....

Kotara ya 2

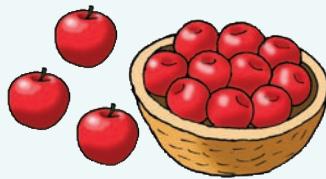
## Ku andzisa no avanyisa (10)



Ku hlayela maapula

Tata tafula.

Xana i tibasikiti tingani leti nga na maapula?

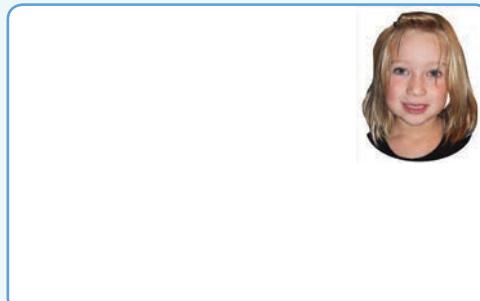
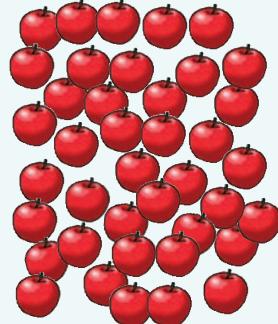


Maapula		10	20	30	40	50
Tibasikiti		1	2			
Nhlayo ya ÷						$50 \div 10 = 5$
Nhlayo ya ×						$5 \times 10 = 50$



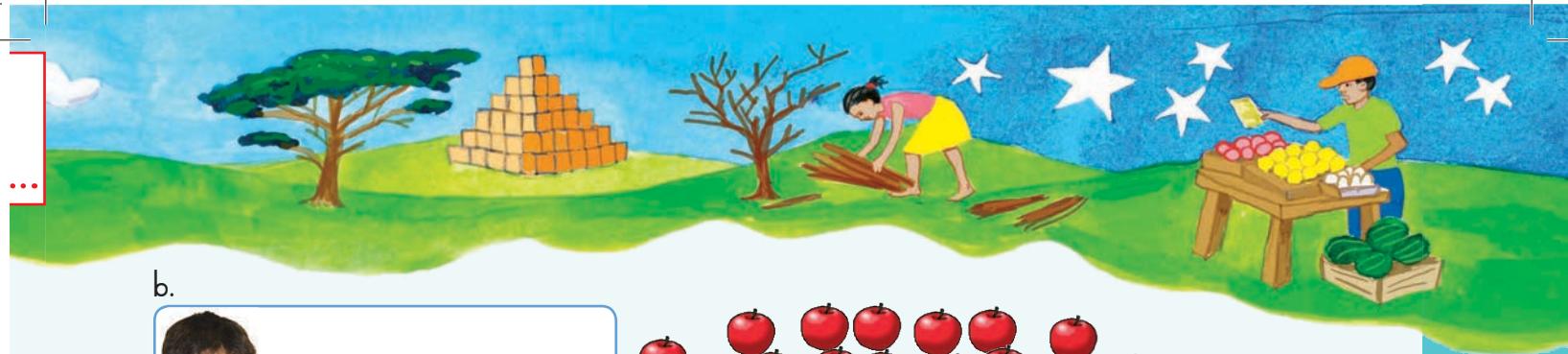
Avanyisa maapula exikarhi ka vana. Dirowa xifaniso. Tsala nhlayo ya ku avanyisa na ya ku andzisa ku kambisia nhlamulo ya wena.

a.

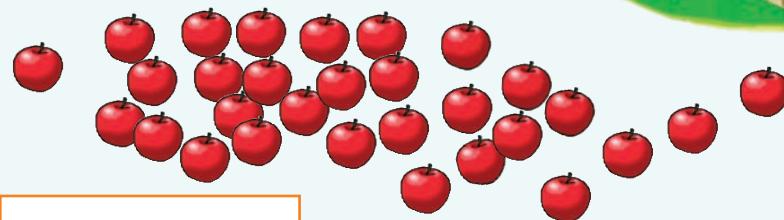


<b>Kambisia</b>
<b>tinhlamulo ta wena</b>
$\square \div \square = \square$
$\square \times \square = \square$





b.



Tsala nhlayo ya ÷



Tsala nhlayo ya  
× ku kambisia  
tinhlamulo ta wena



Tirhisa tinomboro ku endla swivulwa swa wena swa tinomboro.



Xikombiso

$$\div \quad 40 \div 10 = 4$$

$$\times \quad 4 \times 10 = 40$$



÷		×	
---	--	---	--



÷		×	
---	--	---	--



÷		×	
---	--	---	--



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

\_\_\_\_, 460, \_\_\_\_

\_\_\_\_, 390, \_\_\_\_

\_\_\_\_, 500, \_\_\_\_



Teacher:  
Sign:

Date:



## Hlayela hi vu-2

Ku hlayela emahlweni na hi xindzhaku hi vu-2

- 232; 234; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 242; \_\_\_\_\_; \_\_\_\_\_; 248
- 500; \_\_\_\_\_; 496; \_\_\_\_\_; \_\_\_\_\_; 490; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_
- 460; \_\_\_\_\_; \_\_\_\_\_; 400; \_\_\_\_\_; 360; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_
- 341; \_\_\_\_\_; 361; \_\_\_\_\_; \_\_\_\_\_; 391; \_\_\_\_\_; 411; \_\_\_\_\_; \_\_\_\_\_



Tiphere ta  
magilavhu



- Xana ku na tiphere tingani ta magilavhu eka rixaxa rin'we? \_\_\_\_\_
- Xana ku na magilavhu yo famba hi rin'we mangani eka rixaxa rin'we? \_\_\_\_\_
- Xana ku na tinxaxa tingani? \_\_\_\_\_
- Xana ku na magilavhu mangani hinkwawo ka wona? \_\_\_\_\_
- Kombisa leswi u swi tirhiseke xiswona.
- Tsala nhlamulo ya wena tanahi xivulwa xa tinomboro.  
\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_



Xana i magilavhu mangani?

Tsala ematafuleni.

a.

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

b.

Gilavhu rin'we	20	21	70	73
Tiphère 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.

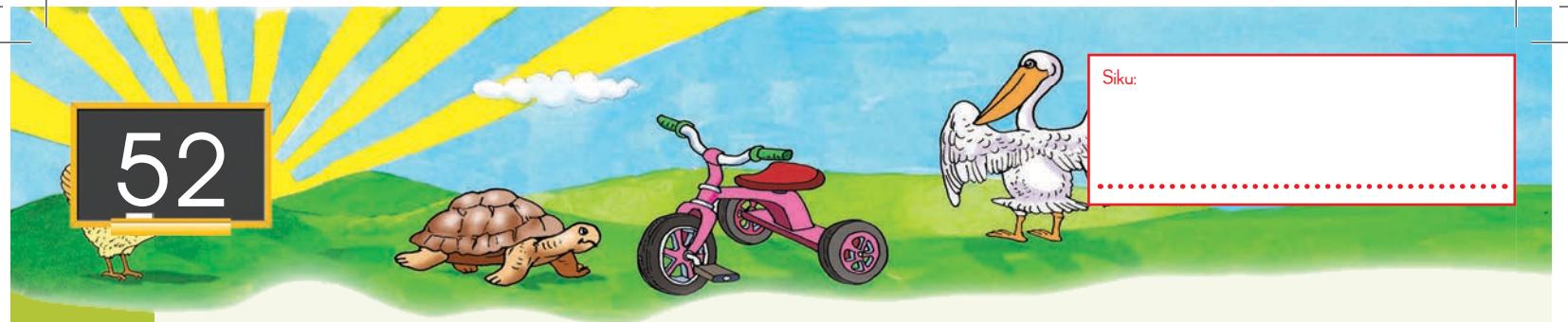
373, 375, <u>377</u> , <u>379</u>	480, 482, __, __	262, 264, __, __
-----------------------------------	------------------	------------------

c. Tsala tinomboro timbirhi leti landzelaka.

346, 348, __, __	415, 417, __, __	297, 299, __, __
------------------	------------------	------------------



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| ||||| |||||



## Pheyivha hi tithayele



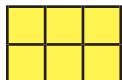
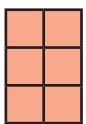
Ku kunguhata xirhapa

Manana Mabena u na tithayele to saseka.

U ti tirhisa ku pheyivha ndhawu exirhapani xa yena.

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

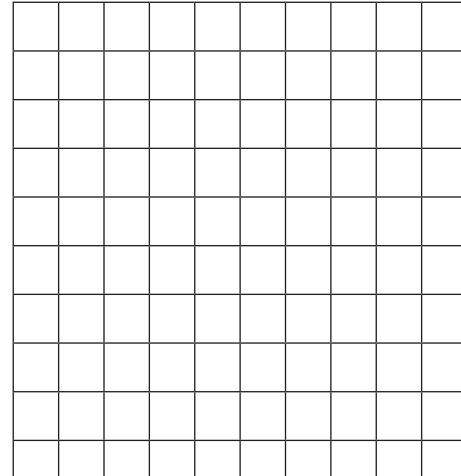
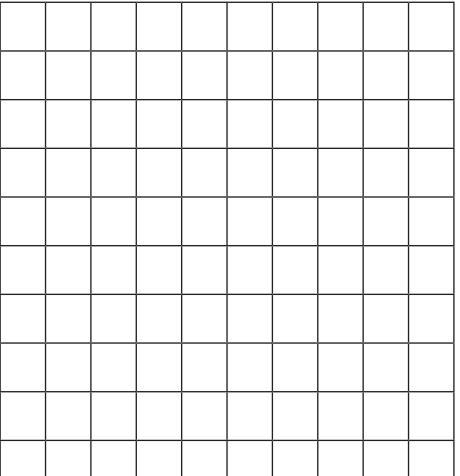


Ndzi endla 1 rixaxa hi 6 wa tithayele.	Ndzi nga endla 2 wa tinxaxa hi 3 wa tithayele eka rixaxa.	Ndzi nga endla 3 wa tinxaxa hi 2 wa tithayele eka rixaxa rin'wana na rin'wana.
 $6 \times 1 = 6$	 $3 \times 2 = 6$	 $2 \times 3 = 6$

### Sweswi i nkarhi wa wena!

Dzwhata tibuloko ku kombisa leswi u nga vekisaka xiswona tithayele ta 8 na 9 wa swikwere.

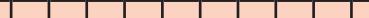
Tsala swivilwa swa tinomboro swa xifaniso xin'wana na xin'wana.

8 wa swikwere	9 wa swikwere
	



## Veketela 12 wa tithayele

Thabo u na tithayele ta l2 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 leyji nga eka xitsemiwa xa 2.
  - Dzwiwata 24 wa tibuloko hi tindlela to hambana.
  - Tsala swivulwa swa tinomboro ku yelanisa xifaniso xin'wana na xin'wana.

—



## Ndzi nqa andzisa!

$12 = 2 \times$ <input type="text"/>	$3 \times$ <input type="text"/> $= 12$	$9 =$ <input type="text"/> $\times 3$
$6 = 3 \times$ <input type="text"/>	<input type="text"/> $\times 3 = 12$	$24 = 3 \times$ <input type="text"/>



53

Siku:

Kotara ya 2

## Hi vu-5 ku fika eka 500



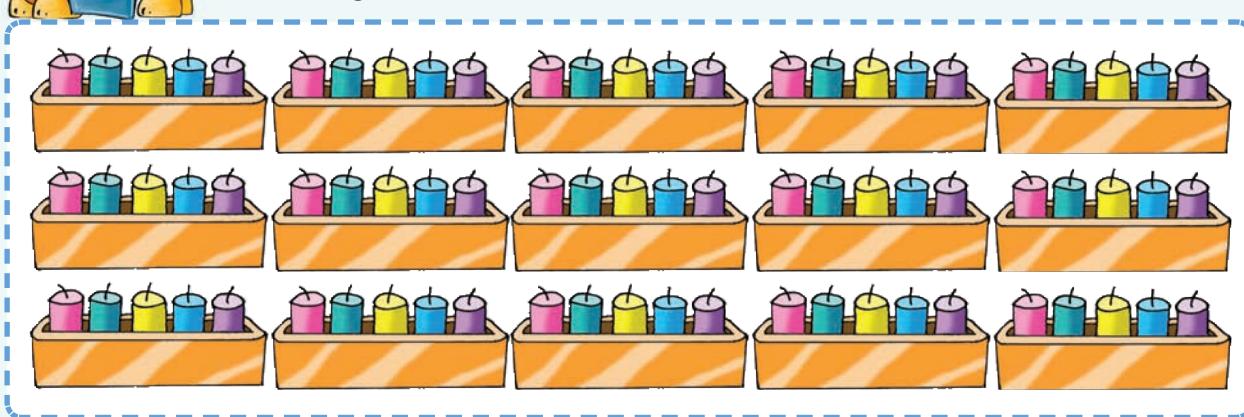
Ku tiva vu-5 bya wena

Tata tinhlamulo.

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



Ku hlayela makhandhlela



- Ku na makhandhlela mangani eka bokisi rin'wana na rin'wana? \_\_\_\_\_
- Ku na mabokisi mangani eka rixaxa rin'wana na rin'wana? \_\_\_\_\_
- Ku na makhandhlela mangani eka rixaxa rin'wana na rin'wana? \_\_\_\_\_
- Ku na makhandhlela mangani hinkwawo ka wona? \_\_\_\_\_



Kombisa nhlamulo ya wena

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

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



## Ku hlayela emahlweni na hi xindzhaku hi vu-5

- 85; \_\_\_\_\_; \_\_\_\_\_; 70; \_\_\_\_\_; \_\_\_\_\_; 55; \_\_\_\_\_; \_\_\_\_\_
- 240; \_\_\_\_\_; \_\_\_\_\_; 255; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 280
- 405; \_\_\_\_\_; 395; \_\_\_\_\_; \_\_\_\_\_; 380; \_\_\_\_\_; \_\_\_\_\_; 365; \_\_\_\_\_



## Ku hlengeleta tikhoyini ta R5



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

$R5 \div R5 = 1$ khoyini	$R10 \div R5 = 2$ wa tikhoyini	R15? _____	R20? _____	R25? _____
R30? _____	R35? _____	R40? _____	R45? _____	R50? _____

$$2 \times R5 = \boxed{R}$$

$$4 \times R5 = \boxed{R}$$

Xana wa yi vona patironi?

$$3 \times R5 = \boxed{R}$$

$$6 \times R5 = \boxed{R}$$



## Ku andzisa hi vu-5

Xikombiso:  $I \times 5 = 5$ ;  $II \times 5 = 10$ ;  $III \times 5 = 15$ ;  $IV \times 5 = 20$

Ehleketa khwatsi! Aka ehenhla ka leswi u swi tivaka!

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

11    12    13    14    15    16    17    18    19    20  
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||



54

Kotara ja 2

## Ku tirha hi nkarchi



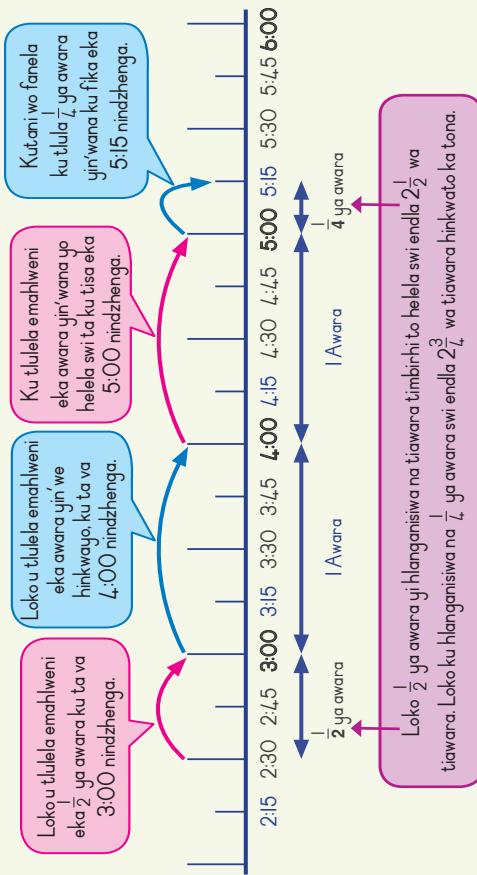
Dirowa minkarchi

Loko $\frac{1}{2}$ ya awara emahlweni eka $\frac{1}{2}$ ya awara ku ta va 3:00 nindzhenga.	Kutulela emahlweni eka awara yin'we hinkwayo, ku ta ya 4:00 nindzhenga.	Kutani wo fanela ku tulula $\frac{1}{4}$ ya awara yin'wana ku fika eka 5:15 nindzhenga.	Uhetah $\frac{1}{4}:45$ nindzhenga. Xana Tumi u hlaya nkarchi wo tanhi kwih?									



## Xiphiqo xa nkarchi

Mana wa Nomsa u suka ekaya hi 2:30 nindzhenga.  
U vuya hi 5:15 nindzhenga. Xana uva a humile  
nkarchi wo tanhi kwih?



## Kamuisisa. Ringanisa. Lulamisa.

Lulamisa xiphiqo xin'wana na xin'wana. Tirhis mixaxamelo ya minkarhi ku pfuni.



a. Sasavona u endzela tata wakwe etilimki hi **10:45** nindzhenga.

Usuka hi **7:15** nindzhenga.

Xana uva a endzile nkarchi wo tanhi kwih?



b. Musu ya ephakeni hi **10:45** nimixo.

U vuya ekaya hi **12:30** ninhlekanhi.

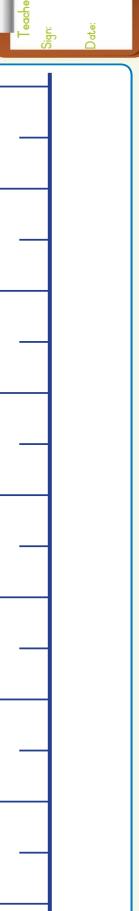
Xana uva a fambole nkarchi wo tanhi kwih?



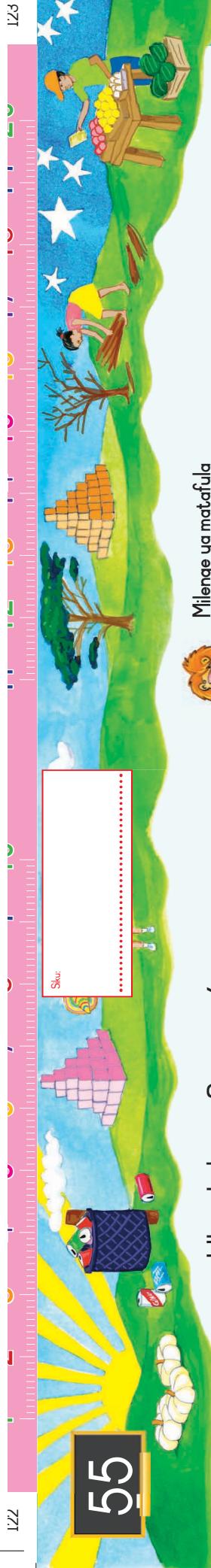
c. Tumi u sungulaku hlaya hi **13:15** nindzhenga.

Uhetah **1:45** nindzhenga.

Xana Tumi u hlaya nkarchi wo tanhi kwih?



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | q | 10



55

## Hlayela hi vu-3 na vu-4

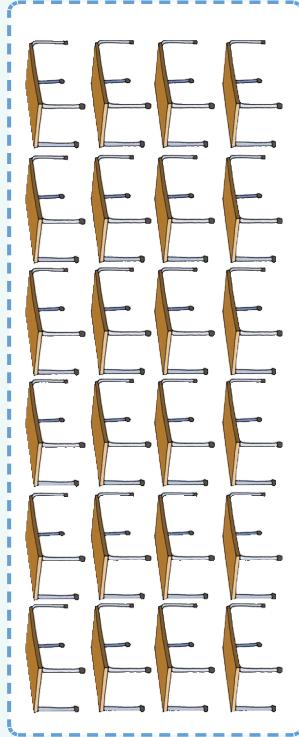
Mapoto ya 3 wa milenge



Hanganisa kutani u  
tsalanhamulo

Kotara ya 2

Milenge ya matafula



- Xana ku na mapoto mangani erixaxeni? \_\_\_\_\_
- Xana ku na milenge yingani erixaxeni? \_\_\_\_\_
- Xana ku na tinxaxa tingani ta mapoto? \_\_\_\_\_
- Xana ku na milenge yingani hinkwao ka yona? Kombissa leswi u swi tirhiseke xiswona.

Fungha (✓) swivulwa swa tinomboro laha hansi leswi kombisaka ntsetseng.  
 $2 \times 7 = \square$      $3 \times 7 \times 3 = \square$      $3 \times 4 \times 2 = \square$      $21 \times 3 = \square$



Xana ku na milenge yingani?

Ehleketa hi xihatla  
Ehleketa khwatsi.

l	pot	3	ya milenge	10	wa mapoto	ya milenge	5	wa mapoto	ya milenge	12
2	wa mapoto			15	wa mapoto	ya milenge	12	wa mapoto	ya milenge	
5	wa mapoto			13	wa mapoto	ya milenge	14	wa mapoto	ya milenge	

Milenge ya matafula

- Xana ku na matafula mangani erixaxeni? \_\_\_\_\_
- Xana ku na milenge yingani erixaxeni? \_\_\_\_\_
- Xana ku na tinxaxa ta matafula tingani? \_\_\_\_\_
- Xana ku na milenge yingani hinkwao ka yona? Kombissa leswi u swi tirhiseke xiswona.



Efemeni

Muvatli u endla matafula. U sunqula hiku endla milenge.

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



Hetisa giridi hi ku tata tinhlamulo

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

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

56

## Hlayela hi vu - 50

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

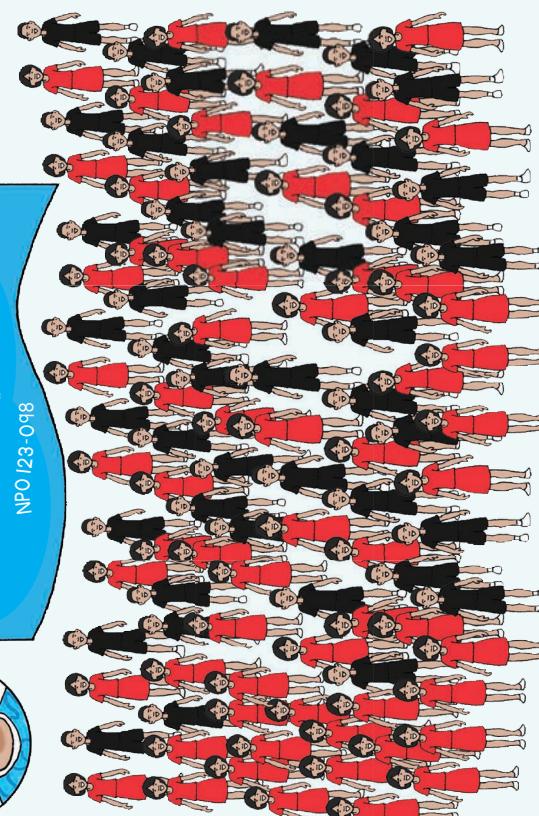
Xana ku na vana vangani? Pimanjisa, kutanii u hlayela.



Kotara ja 2

**Nkumba wo nyika ntshembo**

Kufumeta vana va hina  
NPO 123-098



Vana hinkwavo exafanisweni va amukela nkumba.

Xana ku na vana vangani? \_\_\_\_\_

Pimanjisa

Fananisa

Hlayela

Xana ku na vana vangani? \_\_\_\_\_ Xana ku na vanhwanyana vangani? \_\_\_\_\_



Xana va hakela mali muni?

Nyikela sweswi!

R50 ya nkumba  
wu 1

Gwazi



Uhakela

R

Manana Chauke

u xava 5 ya

Uhakela

R

Mavhengele ya Thembi

u xava 20 ya

Vahakela

R

Ministores

q ya R50 = R \_\_\_\_\_

10 ya R50 = R500

15 ya R50 = R \_\_\_\_\_

6 ya R50 = R \_\_\_\_\_

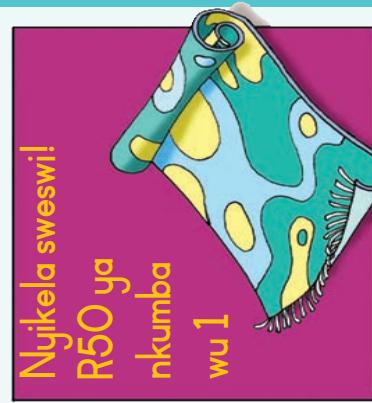
12 ya R50 = R \_\_\_\_\_

q ya R50 = R \_\_\_\_\_

Tilasi ya girediya 3 yi hlengeleta maliku kotoku xavo 4 ya mikumba.

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

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



Mavhengele ya Thembi  
Vahakela

R

Ministores

q ya R50 = R \_\_\_\_\_

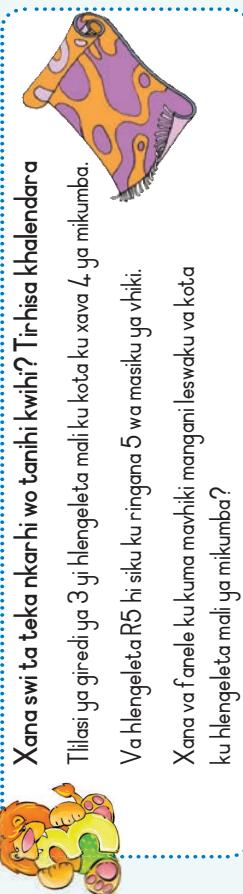
10 ya R50 = R500

15 ya R50 = R \_\_\_\_\_

6 ya R50 = R \_\_\_\_\_

12 ya R50 = R \_\_\_\_\_

q ya R50 = R \_\_\_\_\_



Xana swi ta teka nkari wo tanhi kwih? Tiriha khalendara

Xana swi ta teka nkari wo tanhi kwih? Tiriha khalendara

Tilasi ya girediya 3 yi hlengeleta maliku kotoku xavo 4 ya mikumba.

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

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

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

## Swiphemu: Tihafü na tikotara

Avanyjsa tibolo hiku ringana exikarhika mabokisi.



Xana kuna tibolo tingani eka bokisi rin'wana na rin'wana?	<input type="text"/>
Xana ku na tibolo tingani ebokisini ra xivunguvungu?	<input type="text"/>
I xiphemu muni lexi nga ebokisini ra xivunguvungu?	<input type="text"/>
	<input type="text"/>
	<input type="text"/>

Languta swifaniso kutani u hlamula swivutiso.



Xana u hla jelle swirhendzevutana swingani?	<input type="text"/>
Xana $\frac{1}{2}$ ya swirhendzevutana i yini?	<input type="text"/>
Xana $\frac{2}{2}$ ya swirhendzevutana i yini?	<input type="text"/>
Xana $\frac{3}{2}$ ya swirhendzevutana i yini?	<input type="text"/>
Xana $\frac{4}{2}$ ya swirhendzevutana i yini?	<input type="text"/>



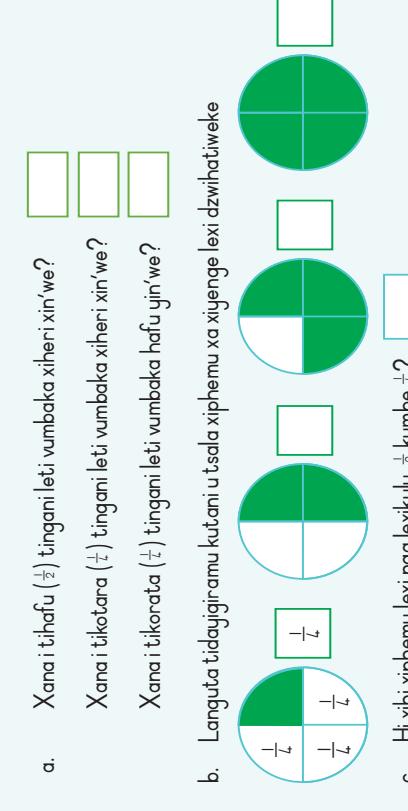
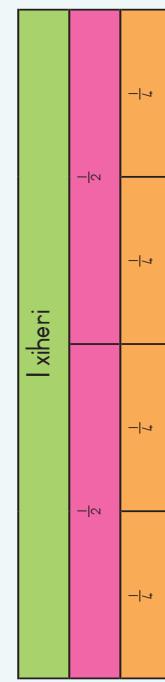
Khalara  $\frac{1}{2}$  ya xiumbeko  
xin'wana na xin'wana.

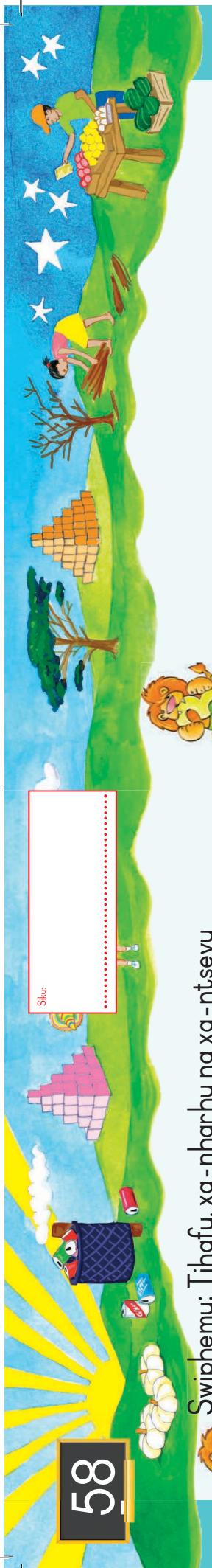
Khalara  $\frac{1}{4}$  ya xiumbeko  
xin'wana na xin'wana.

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

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

**Xiya switiripi swa swiphemu.**



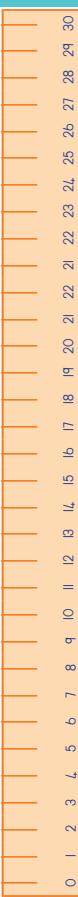


58

*Swiphemu: Tihafu, xa-nharhu na xa-ntsevu*

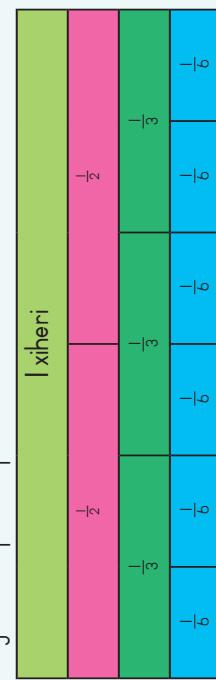
Avanissa switchinana (*tisilindara*) hi ku ringana exikarhi ka mabokisi.

Kotara ya 2



- Kombisa hafu yin'we erhulen. Leswi swi ringana na \_\_\_\_ cm.
  - Kombisa n'we-xa-nharhu erhulen. Leswi swi ringana na \_\_\_\_ cm.
  - Kombisa n'we-xa-n'tsevu erhulen. Leswi swi ringana na \_\_\_\_ cm.

*Languita switiripi swa swiphemu. Hetisa swivulwa.*

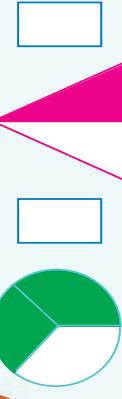


- Ku na \_\_\_\_ wa tihafu eka xheri.
  - Ku na \_\_\_\_ wa xa -nharhu eka xheri.
  - Ku na \_\_\_\_ wa xa -ntsevu eka xheri.
  - Ku na \_\_\_\_ wa xa -ntsevu eka hafu.
  - Ku na \_\_\_\_ wa tihafu eka xheri.

Tsala xiphemu xa xiyenqe lexi dzwihiatiweke.



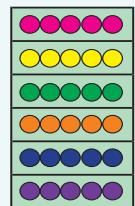
A pink right-angled triangle pointing downwards, positioned above the second row of shapes.



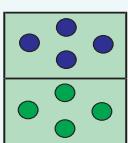
Bana xirhendżevutana eka  
xiphemu lexiculu.

- $$\begin{array}{ccc} |3 & -|0 & 2| \\ -|0 & -|0 & -|0 \end{array}$$

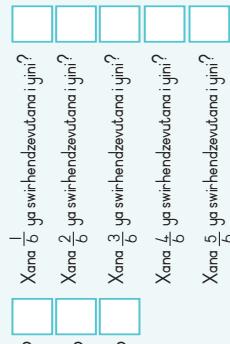
Xana  $\frac{1}{6}$  ya swihendzewudana i yini?  
Xana  $\frac{2}{6}$  ya swihendzewudana i yini?  
Xana  $\frac{3}{6}$  ya swihendzewudana i yini?  
Xana  $\frac{4}{6}$  ya swihendzewudana i yini?  
Xana  $\frac{5}{6}$  ya swihendzewudana i yini?



*Langta switani so kutani u hlamula swivutiso.*



Xana u hlayele  
swirhendzhevutana swinqani?



Xana  $\frac{1}{3}$  ya swihendzvetana i yini?  
Xana  $\frac{2}{3}$  ya swihendzvetana i yini?  
Xana  $\frac{3}{3}$  ya swihendzvetana i yini?

Xana  $\frac{1}{6}$  ya swihendzvetana i yini?  
Xana  $\frac{2}{6}$  ya swihendzvetana i yini?  
Xana  $\frac{3}{6}$  ya swihendzvetana i yini?

Xana  $\frac{4}{6}$  ya swihendzvetana i yini?  
Xana  $\frac{5}{6}$  ya swihendzvetana i yini?

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



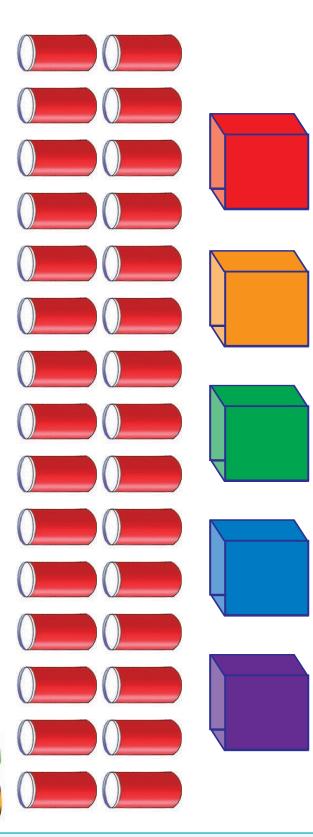
5q

## Swiphemu: xa-ntlhānu

Avanyjisa swithinana eka 5 wa mabokisi.



Kotara ja 2

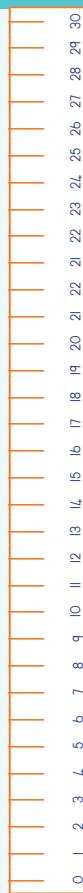


- Eka  $\frac{1}{5}$  ya mabokisi ku na  6 wa swithinana.
- Eka  $\frac{2}{5}$  ya mabokisi ku na  wa swithinana.
- Eka  $\frac{3}{5}$  ya mabokisi ku na  wa swithinana.
- Eka  $\frac{4}{5}$  ya mabokisi ku na  wa swithinana.
- Eka  $\frac{5}{5}$  ya mabokisi ku na  wa swithinana.

Languta swifaniso kutani u hlamula swivutiso.



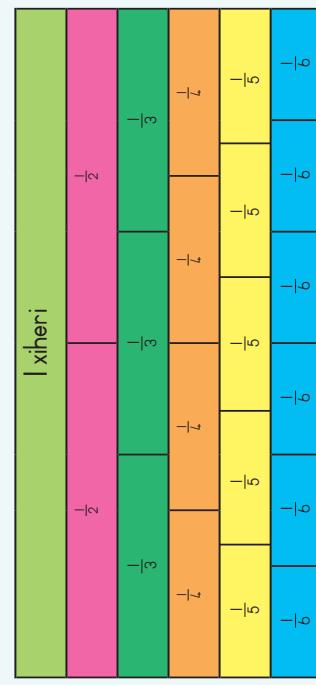
- Xana kuna tichokoleti tingani ebokisini?
- nwe-xa-ntlhānu ya tichokoleti yi ringana na
- mbirhi-xa-ntlhānu ya tichokoleti yi ringana na
- nharchu-xa-ntlhānu ya tichokoleti yi ringana na
- mune-xa-ntlhānu ya tichokoleti yi ringana na
- ntlhānu-xa-ntlhānu ya tichokoleti yi ringana na
- Hiisiku ra lndzi dyle  $\frac{1}{5}$  ya tichokoleti. Xana ku sale tichokoleti tingani?
- Hiisiku ra 2 ndzi dyle  $\frac{1}{5}$  ya tichokoleti. Xana ku sale tichokoleti tingani?



Khalara switrisiwa swo pima.



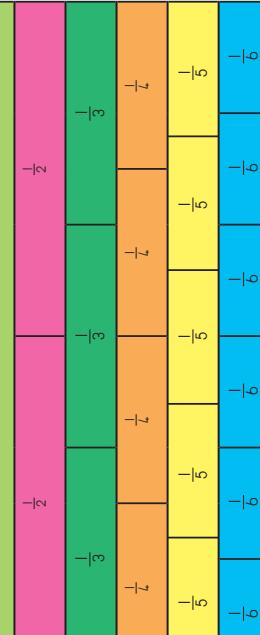
a.



Languta switrisiwa swo swiphemu kutani u hlamula swivutiso.



Ixheri

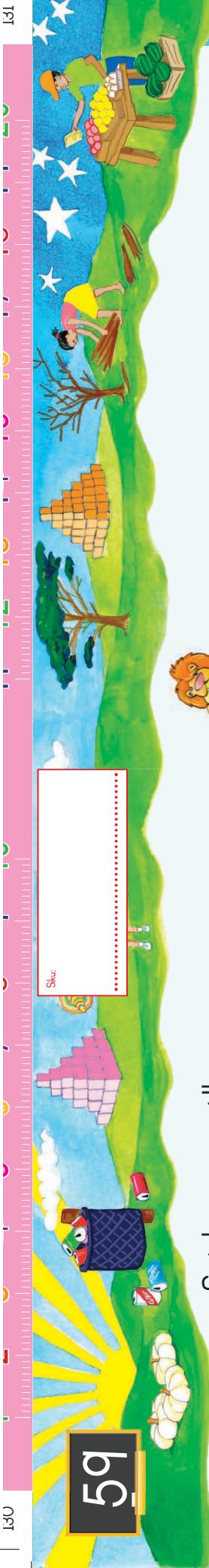


Bana xirhendzevutana eka lejkulu kumbe lejintsongo

- $\frac{1}{2}$  i yikulu/yintsongo eka  $\frac{1}{4}$ .
- $\frac{1}{3}$  i yikulu/yintsongo eka  $\frac{1}{2}$ .
- $\frac{1}{5}$  i yikulu/yintsongo eka  $\frac{1}{6}$ .
- $\frac{1}{6}$  i yikulu/yintsongo eka  $\frac{2}{3}$ .
- $\frac{3}{6}$  i yikulu/yintsongo eka  $\frac{2}{5}$ .

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

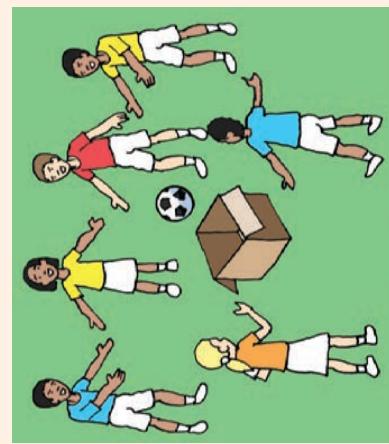


11 12 13 14 15 16 17 18 19 20

11 12 13 14 15 16 17 18 19 20



## Swilo swa 3-D



Hlayela mabokisi  
(tjipinzimu).  
Hlayela tibolo  
(swinhendzevutana)  
Hlayela tisilindara.

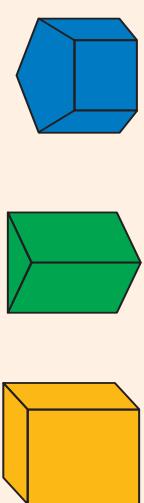
Kotara ja 2

60

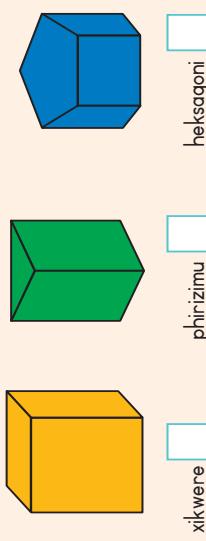


Lama i mabokisi hinkwawo.

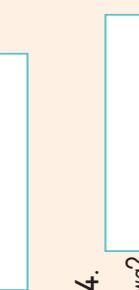
Tirhisza maphephetha ya switssemiwa swa 3 na 4 ku swi endla.



Vuandillo bya xiphosphherethel bejin wana na bujin wana bji vitaniwa emahlweni.  
Damarketa xikandza lexin wanuyitdaka emahlweni ya mabokisi. Xana u  
damarhetile swikandza swingani eka:



xikvere phirizimu heksagoni



Xana tinghole ta phirizimu i to ringanelakumbé i ta njihikwa?  
Sweswi endla silindara hi phepha ra xitssemiwa xa 4.  
Xana tinghole ta silindara i to ringanelakumbé i ta njihikwa?



b2

Kotara ja 2

## Ku andzisa kambirhi na ku hafula kun'wana

Kukuma ku andzisa kambirhikumbe tihafu

- a.  73
- b.  148
- c.  q6
- d.  134
- e.  166
- f.  8q

## Kuhlausela bayisksiri

Peter u hlayisa R25 hi vhiki kukota ku xava  
bayisksiri. Xana u fanele ku hlausela mali eka mavhiki  
mangan? Nhlamu:

wa mavhiki

## Ku va eka mbhukuto

Swi xavisiwa hinkwaso swi le ka mbhukuto wa hafu ya nxavo.

Tsalanxavo wa mbhukuto ethheld ka xixavisiva 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?

Musau lava hembe. O vanahafu yantsengon tsena.



R35

Xana wa ha fanele ku lava mali muni? R \_\_\_\_\_



R7850

Tintanghu ta Peter ti durha kambirhi ku ri na leti.



R97

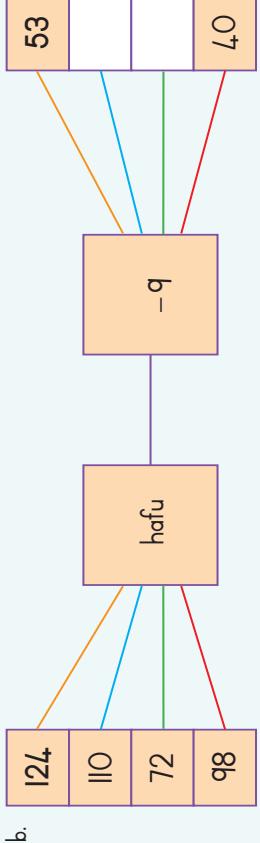
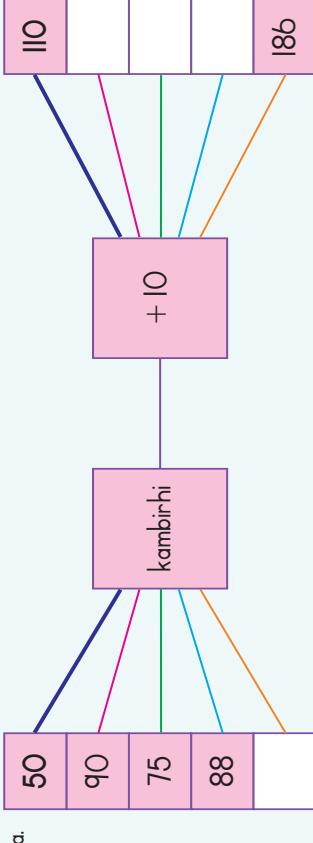
Rhoko ya Phindi yi kambirhi eka nxavo wa ley.



R \_\_\_\_\_

Xana rjini xi ng'henga? Xana i jini xi humdaka?

Lanzalela xikombiso. Tata tinomboro leti sijweke.



## Mbhukuto R450

Nxavo wo hungutia  
hi hafu: A wu  
ri R900



- b.  Malakani R154.  
Nxavo wa mbhukuto \_\_\_\_\_
- d.  Switulu R220  
Nxavo wa mbhukuto \_\_\_\_\_

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | q | 10

13q

63

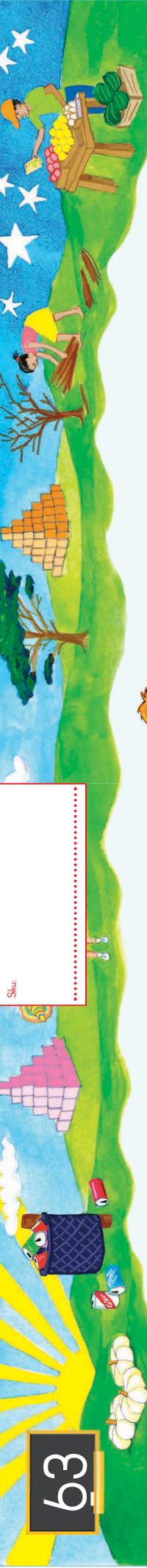
## Endla mitlawau tihela u katsa

Ku wumbantlawa wa vana

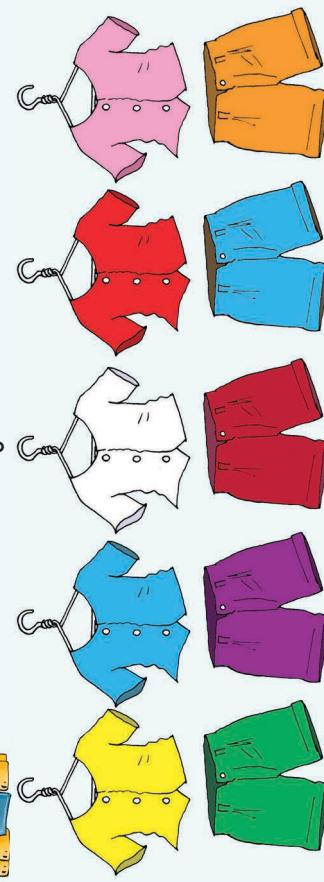
Manana Ndaba u lava ku ava tilasi hi mitlawau yo tisayizi leti ringanaka ku endela mitlangu ya le handle ka mudiko. Xo sungula u vantlawahata hi 4 wa swipanu.



Kotara ja 2



Xana ku na swiambalo swingani?



Phindlu na 5 wa tihembe ta mihlovo hlovo na 5 wa swiburukwana swa mihlovo hlovo.

Xana i swiambalo swingani swo hambana lesvia nga swi endlaka hiku tishisa mihlonganelo yo hambana ya mihlovo?

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

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

- Hlayela vana.
- Xana u endlile swipanu swingani?
- Kombisa tindlela letin'wana hinkwato to endla mitlawa ya vana leji ringanaka.

Kambisisa. Ringanisa.  
Lulamisa.

Vhumba: Ku ta humelela yini loko Phindi a ri na ó wa mihlovo yo hambara ya tihembe na swiburukwana?  
Xana i swiambalo swingani lesvi a nga swi endlaka?

Teacher:  
Sign:  
Date:

Kambisisa. Ringanisa.  
Lulamisa.



11 12 13 14 15 16 17 18 19 20

64

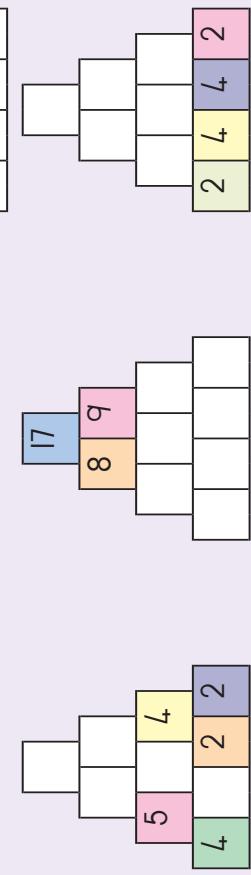
## Ku tiphina hi metse



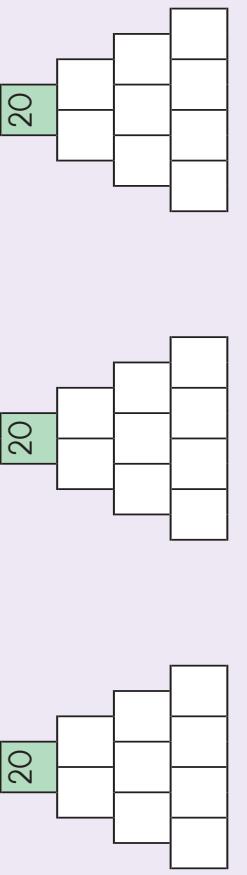
Lava nau

Tirhisua nauwku kuma tinomboro leti sijweke.

Sweswi endla leswi



Akaku fikaeka 20 hi 3 wa tindllela to hambara



Ntihontihoo

Ehleketa!

Tirhisua tinomboro ta 1, 2, 3, 4 na 5.  
3 wa tinomboro eka rixaxa rin'wana na rin'wana ri  
fanele ku hlangana ri nyka [0].

Nauw: Tirhisua nomboro yin'wana na yin'wana kan'we ntsema.

Kotara ja 2



Ku kuma tinomboro

a. Nauw: Tinomboro eka rixaxa rin'wana na rin'wana ti fanele ku hlangana ti va lb.

2	5	3	6

b. Nauw: Kuna 3 wa tinomboro, to hingakanya na to ya ehansi. Hinkwato tinomboro ti fanele ku hlanganiswa kutani ti nyka ntsengo lowu fanaka.

23	28	21

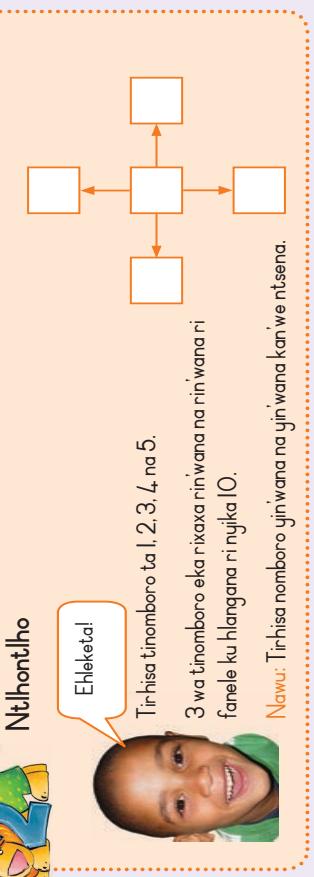
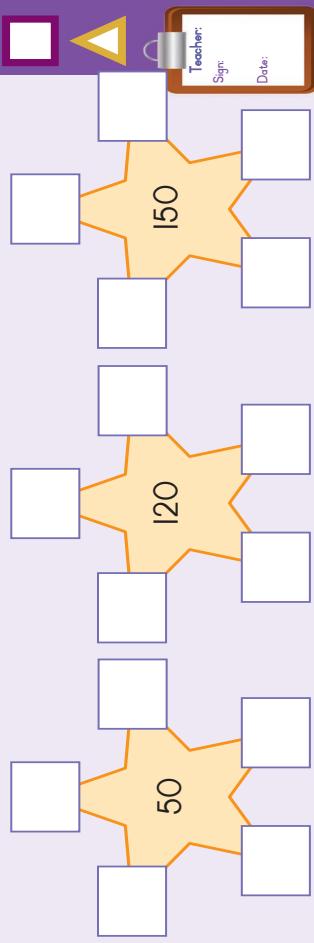
  

2	7	6
q		1

3	8

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



| 1 2 3 4 5 6 7 8 q 10

143

I	I	O	I	O	O
2	2	O	2	O	O
3	3	O	3	O	O
4	4	O	4	O	O
5	5	O	5	O	O
6	6	O	6	O	O
7	7	O	7	O	O
8	8	O	8	O	O
q	q	O	q	O	O

I O O

I O I

2 O O 2 O 2

3 O O 3 O 3

4 O O 4 O 4

5 O O 5 O 5

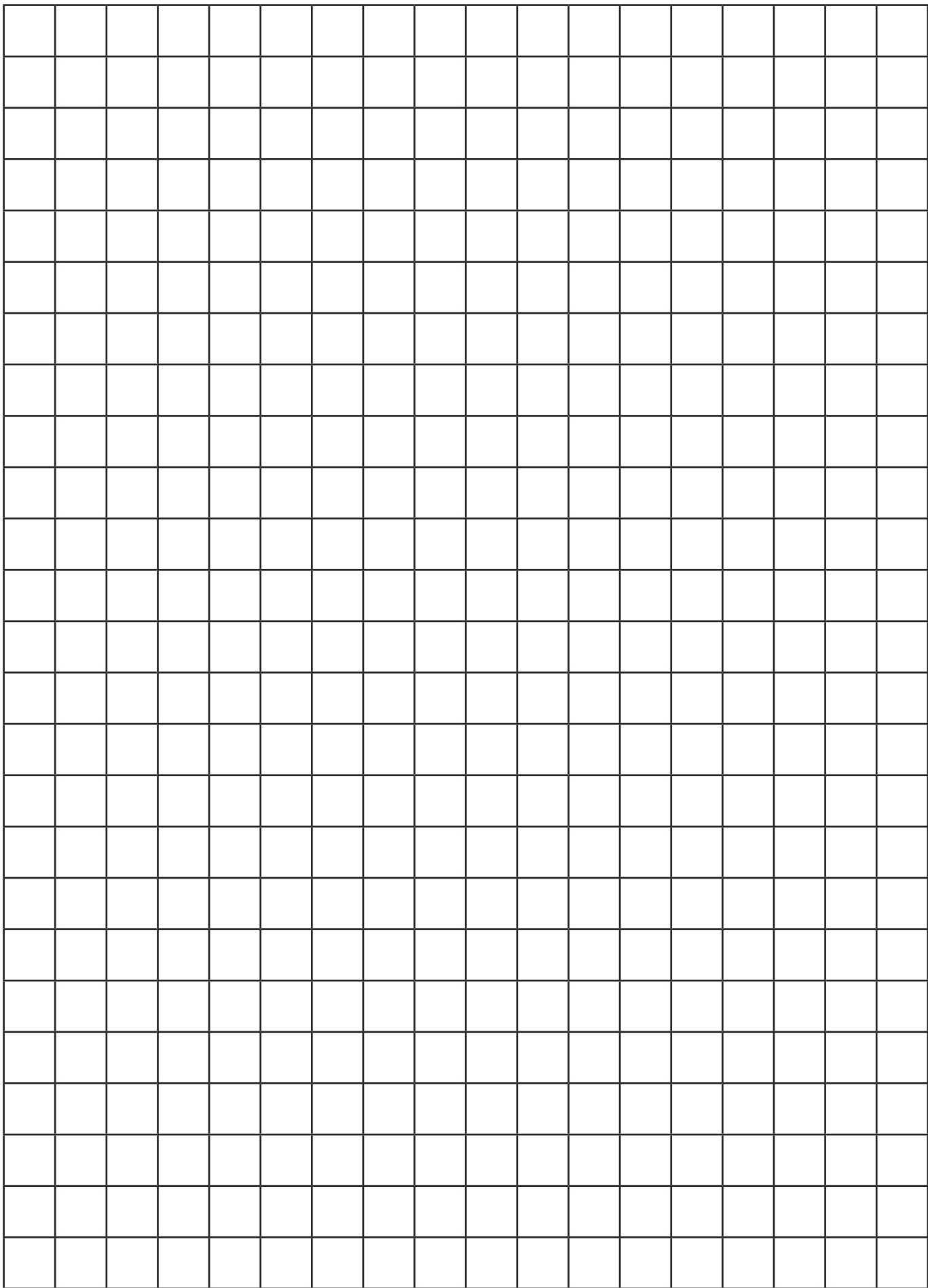
6 O O 6 O 6

7 O O 7 O 7

8 O O 8 O 8

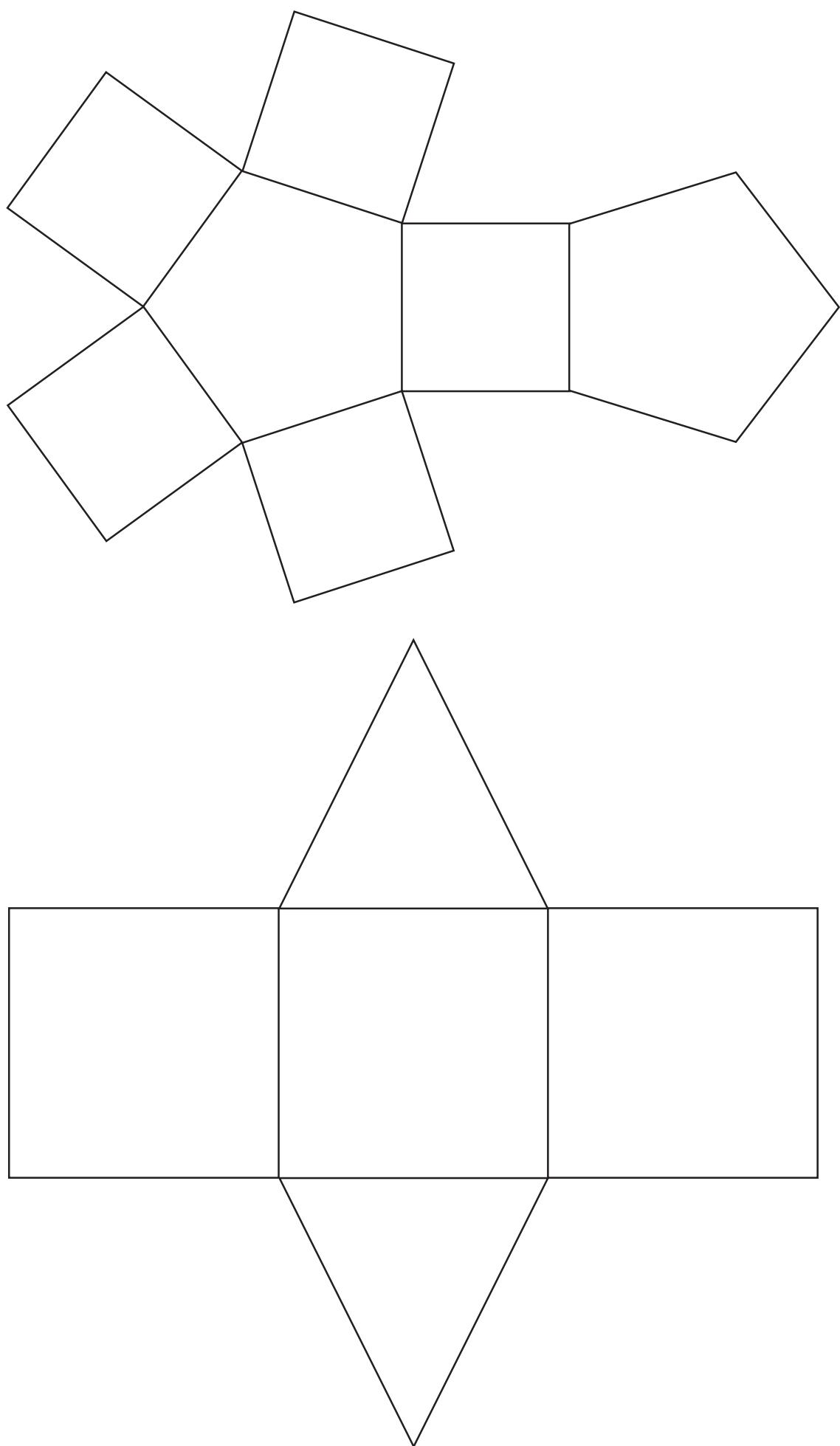
q O O q O q

Xitsemiwa 2





Cut-out 3





Cut-out 4

