

MATHEMATICS IN XITSONGA

GRADE 3 – BOOK 1

TERMS 1 & 2

ISBN 978-1-4315-0014-7

THIS BOOK MAY NOT BE SOLD.

13th Edition

ISBN 978-1-4315-0014-7



Ku dyondza hi Vumbiwa ra Riphabiliki Afrika-Dzonga (1996)
 Vumbiwa ra Afrika-Dzonga (1996) ri na milawu ya le henhla ya tiko. Milawu ley i le henhla ku tlula na puresidente, yi le henhla ku tlula tihuvo na ku tlula mfumo.
 Yi hlamsela ndlela leyi vanhu va tiko va faneleke ku khomana hiyona, timfanelo na vutihlamuleri bya vona eka vanhu van'wana. Vumbiwa ra Tiko ri kona leswaku ri kota ku sirhelela hinkwerhu ka hina sweswi na vana va hina eka minkarhi leyi taka.

Lemuka matimu ya hina.	Hi nga vu yeleti swihoxo swa nkari lowu nga hundza.	Vumbiwa ra hina ri hi pfuna ku anakanya no aka vumundzu ku byo antswa bya vanhu hink wavo.
------------------------	---	--

Hina, vanhu va Afrika-Dzonga,
 Hi lemuka ku kala vululami ka nkari lowu hundzeke evuton'wini bya hina;
 Hi xixima lava va xanisekeke hikwalaho ko hisekela vululami na ntshunxeko etikweni rerhu;
 Hi hlonipha lava va tirheke ku aka no hluvukisa tiko ra hina; naswona
 Hi tshemba leswaku Afrika-Dzonga i ra hinkwavo lava tshamaka eka rona, hi hlanganile hi ku hambana-hambana ka hina.
 Kutani, hi ku tirhisa vayimeri va hina lava hi tihlawuleleke vona hi ntshunxekile, hi amukela Vumbiwa leri tanahi nawu lowu kulukumba wa Riphabliku ku endlela—

Ku lulamisa ku hambanisika ka nkari lowu hundzeke no vumba rixaka leri simekiweke ehenhla ka masungulo ya swipimelo swa xidemokhirasi, vululami exikarhi ka vanhu na timfanelo ta ximunhu ta masungulo;

Ku simeka masungulo ya rixaka ra xidemokhirasi leri vekekwa swilo erivaleni laha eka rona mfumo wu simekiweke ehenhla ka ku navela ka vanhu naswona vaaka-tiko hinkwavo va sirheleriwile hi ku ringana hi nawu;

Ku antswisa xiyimo xa vutomi bya vaaka-tiko hinkwavo no humesela erivaleni vuswikoti bya munhu un'wana na un'wana na;

Ku aka Afrika-Dzonga leri vumbaneke ra xidemokhirasi leri ri kotaka ku teka vutshamo bya rona lebyi faneleke tanahi tiko leri tiyimeleke endyangwini wa tinxaka.

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



Giredi
ya 3

Vito:

Tlilasi:



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Buku ya 1
Tikotara ta
1 na 2

MATEMATIKI HI XITSONGA

Leswi nga endzeni

Nomboro	Nhlokomhaka	Pheji
1	Hlayela, hlawula no kombisa!	2
2	Ku hlayela hi vutlhari	4
3a	Tinomboro eka giridi	6
3b	Tinomboro eka giridi (ku yisa emahlweni)	8
4	Nkoka wa ndhawu	10
5	Ku hlanganisa noku ku susa	12
6	Ku andzisa kambirhi na tihafu	14
7	Swiphemu	16
8	Ku hlawula mali	18
9	Tipatironi	20
10	Tibolo, mabokisi na tisilindara	22
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 buji hambanisa	80
35b	Ku veka vukhume kun'we na ku buji 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	Pheyivha hi tithayele	118
53	Hi vu-5 ku fika eka 500	120
54	Ku tirha hi nkarhi	122
55	Hlayela hi vu-3 na vu-4	124
56	Hlayela hi vu-50	126
57	Swiphemu: Tihafu na tikotara	128
58	Swiphemu: Tihafu, xa-nharhu na xa-ntsevu	130
59	Swiphemu: xa-ntlhau	132
60	Swilo swa 3-D	134
61	Ku andzisa kambirhi na hafulu	136
62	Ku andzisa kambirhi na ku hafulu 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



Dkd. Reginah Mhaule,
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, Dkd. Reginah Mhaule.

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

Hi tshemba 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.

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.

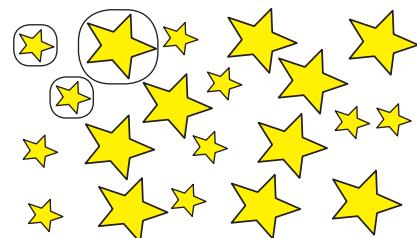
Vito				
Mpimanyiso				
Nhlayo leyi hlayeriweke				
Ku hambana exikarhi ka mpimanyiso na ku hlayela ka n'wina				



Tindlela to hlayela. Hi pfuneni ku ti tsala ehansi.



Ndzi hlayele hi vun'we.



1, 2, 3, _____

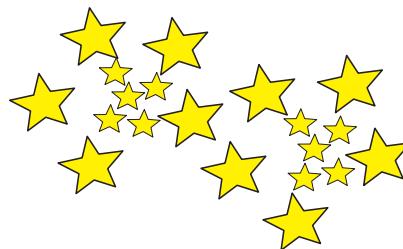


Ndzi hlayele hi vu-2.



2, _____

Ndzi hlayele hi vuntlhanu.



Ndzi hlayele hi vukhume.

5, _____



Tsalani swivulwa swa tinomboro

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

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

Kulu Tsongo Ku fana na leswi kumbe ku fana na leswi

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

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

naswona tanihu swivulwa swa tinomboro.

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



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

2

Siku:

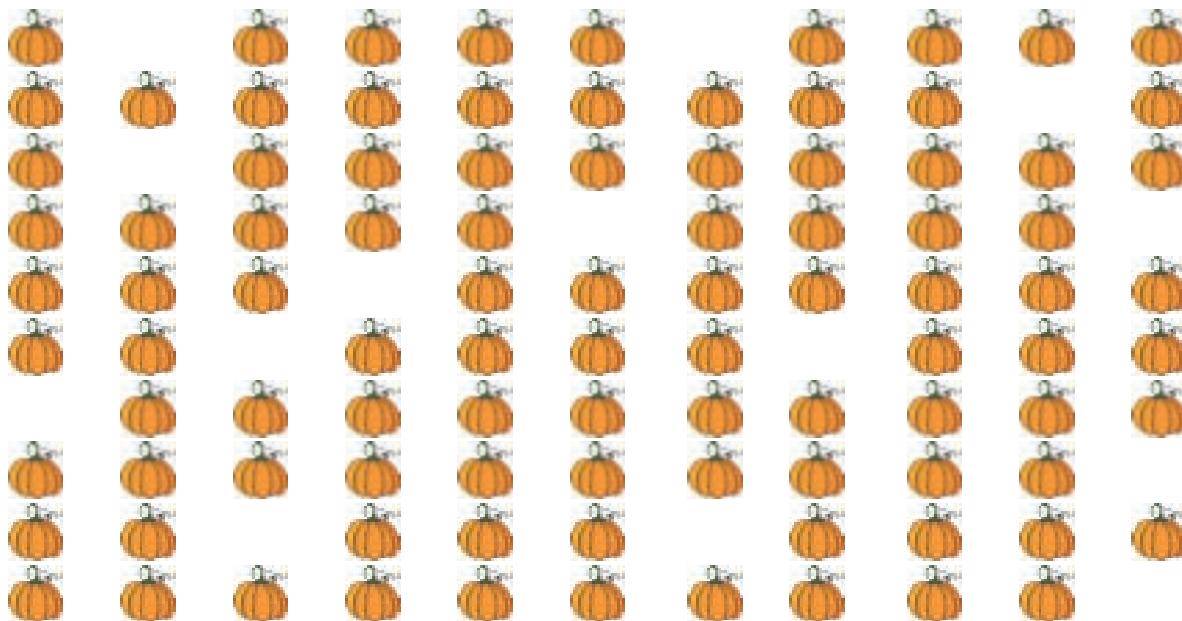
Kotara ya!



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 \times (ku hlanganisa ku ya eka ku andzisa)

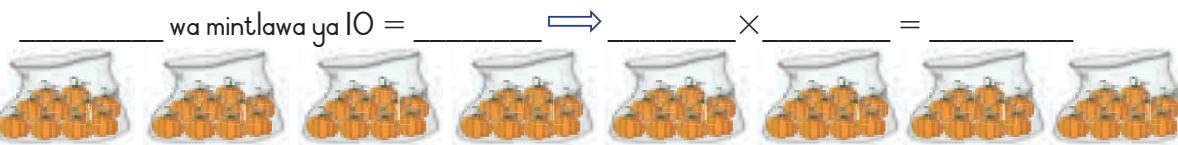
Hetisa swivilwa swa tinomboro.

Xikombiso:

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



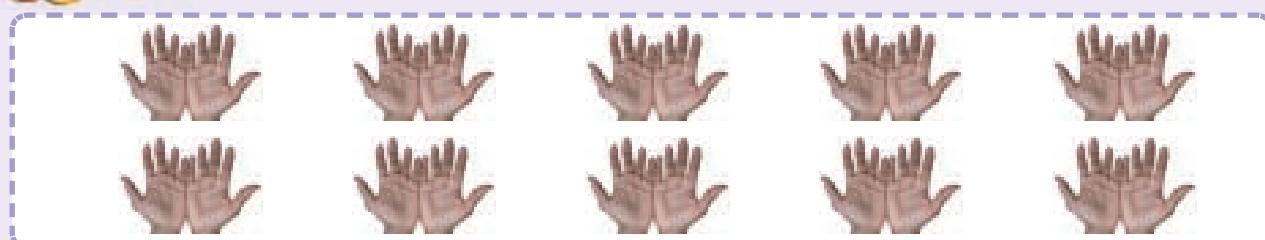
a. $10 + 10 + 10 = \underline{\hspace{2cm}}$



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



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?



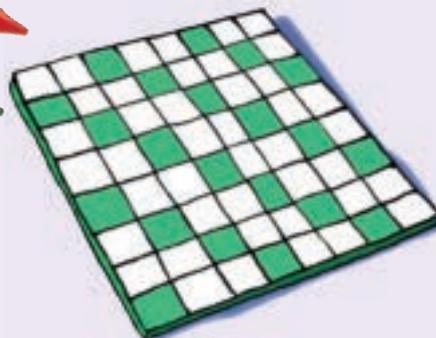
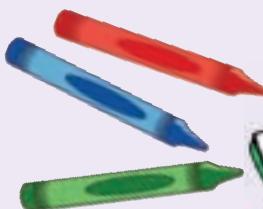
Tsala tinomboro hi marito.

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.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

3b

Siku:

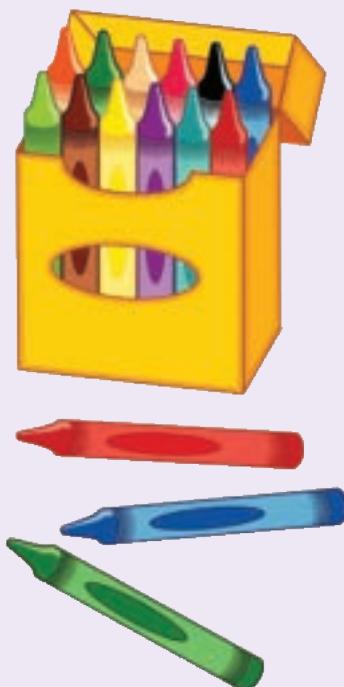
Kotara ya |

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

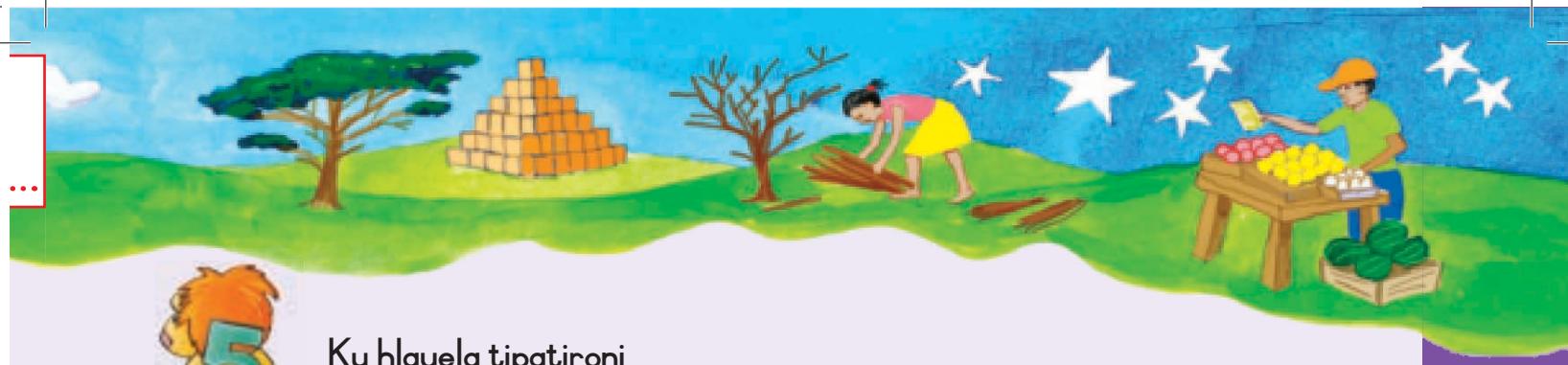


Gwajula vu-10 hinkwabyo.

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!



Nkoka wa ndhawu

Ku kombisa tinomboro ta wena

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

19

43

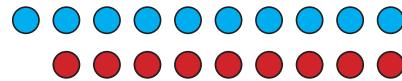
69

54

35

10
q

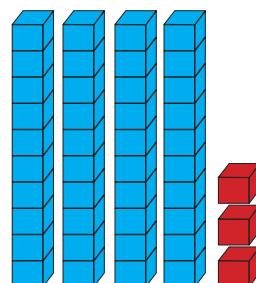
19



10
q

$$10 + 9 = 19$$

43



10
10
10
10
3

$$40 + 3 = 43$$

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

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.

Iq	$10 + q$	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:

Kotara ya I

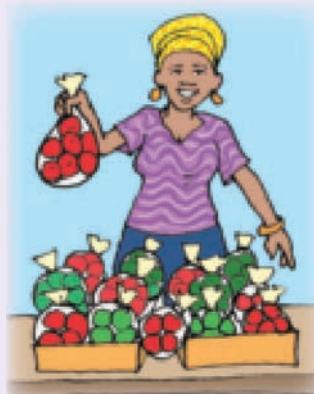


Xitolo xa Lebo

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.
_____ - _____ = _____



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

$$15 - 9 = 6 \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}}$$



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

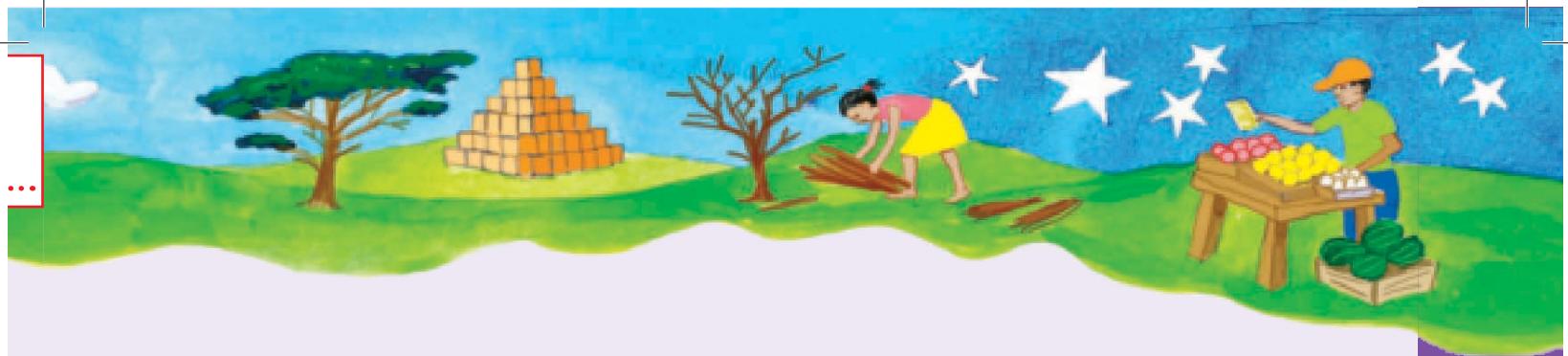
Hi leswi swikombiso swa ndyangu wa nomboro leyi.

$$9 + 5 = 14$$

$$5 + 9 = 14$$

$$14 - 9 = 5$$

$$14 - 5 = 9$$



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 I

Ku andzisa kambirhi na tihafu

Xana wa tsundzuka?

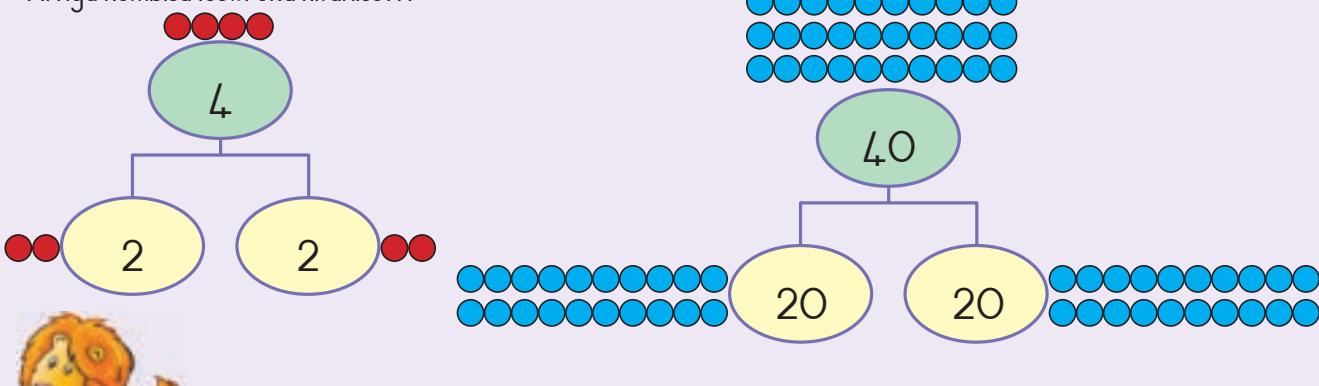
2 i hafu ya 4

20 i hafu ya 40

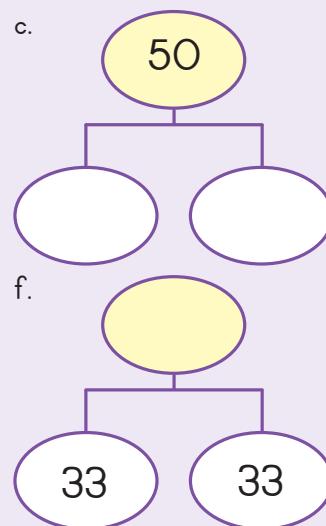
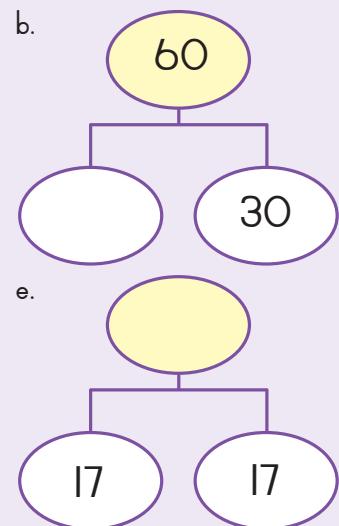
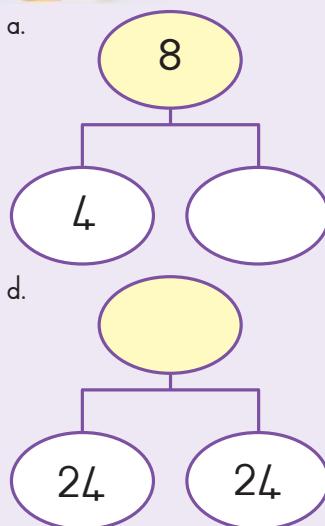
4 i 2 yi andzisiwe kambirhi

40 i 20 yi andzisiwe kambirhi

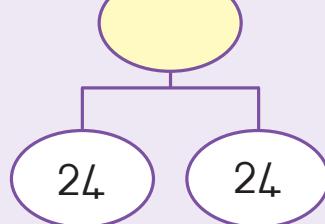
Hi nga kombisa leswi eka xifaniso...



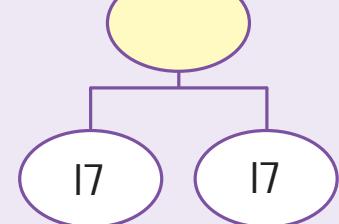
Kuma mitsengo ya ku andzisa kambirhi kumbe tihafu



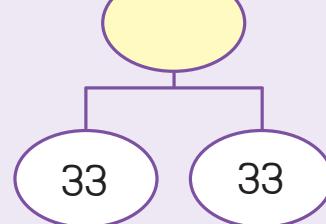
d.



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.

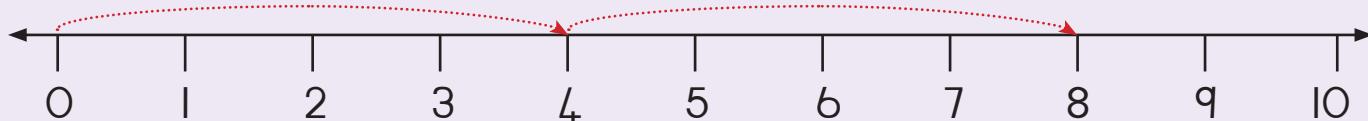
a. Andzisa 4 kambirhi

4

+

4

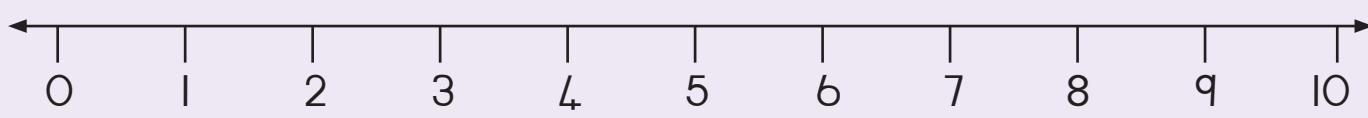
= 8



b. Andzisa 5 kambirhi

+

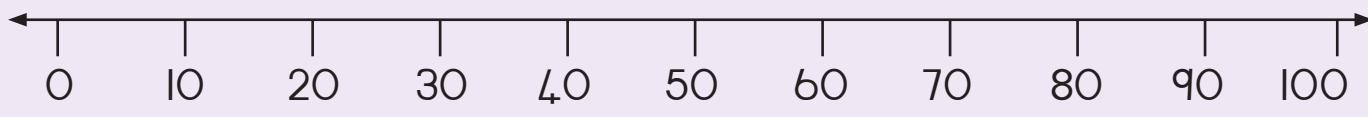
=



c. Andzisa 20 kambirhi

+

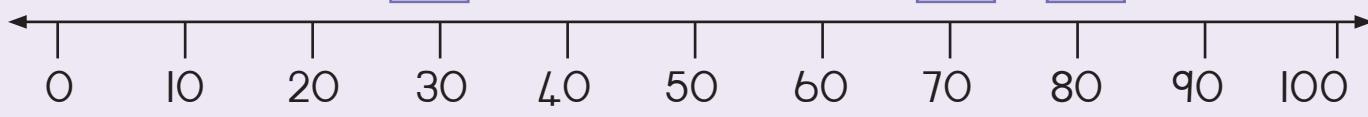
=



d. Andzisa 40 kambirhi

+

=



Hetisa leswi landzelaka

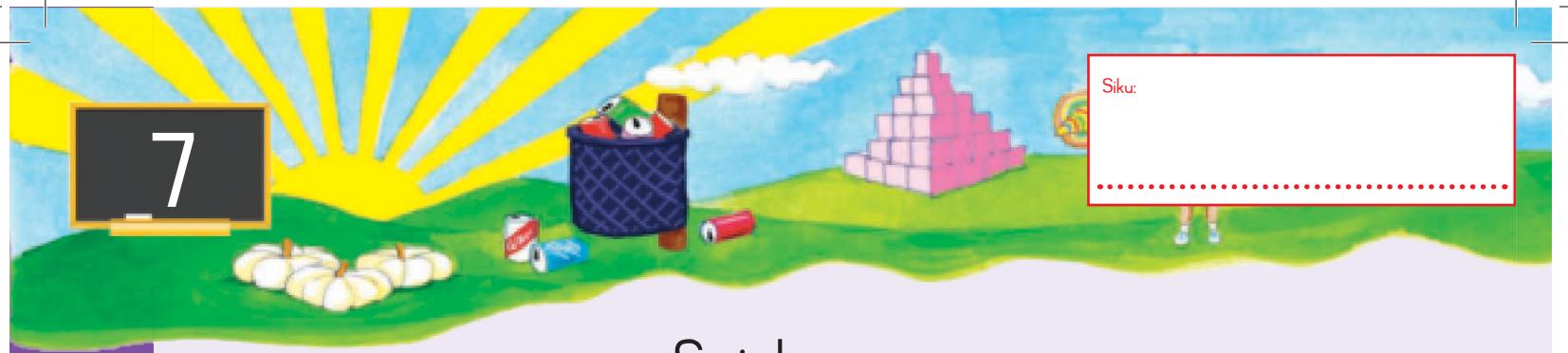
a. Andzisa 1 kambirhi	<input type="text"/> 2
b. Andzisa 6 kambirhi	<input type="text"/>
c. Andzisa 10 kambirhi	<input type="text"/>
d. Andzisa 30 kambirhi	<input type="text"/>
e. Andzisa 50 kambirhi	<input type="text"/>



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"/>





Kotara ya I

Swiphemu

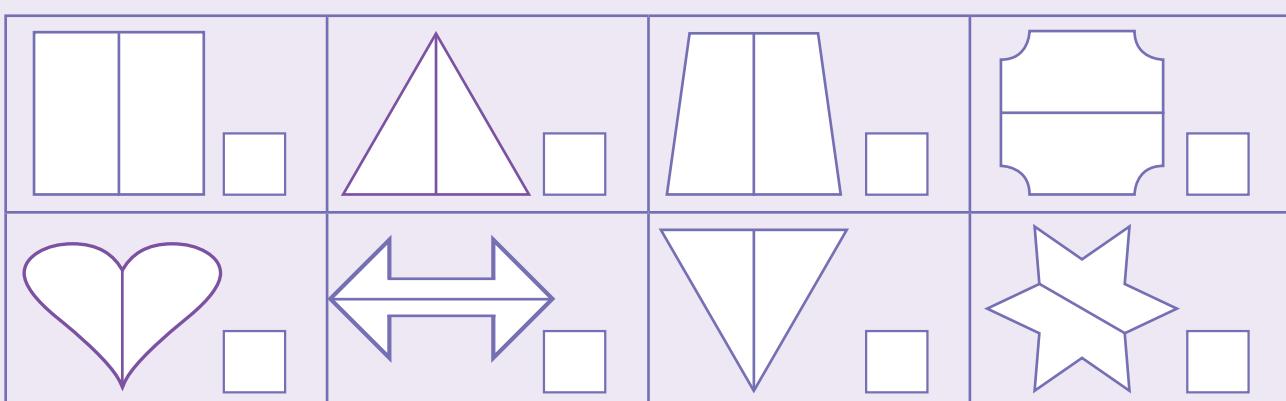
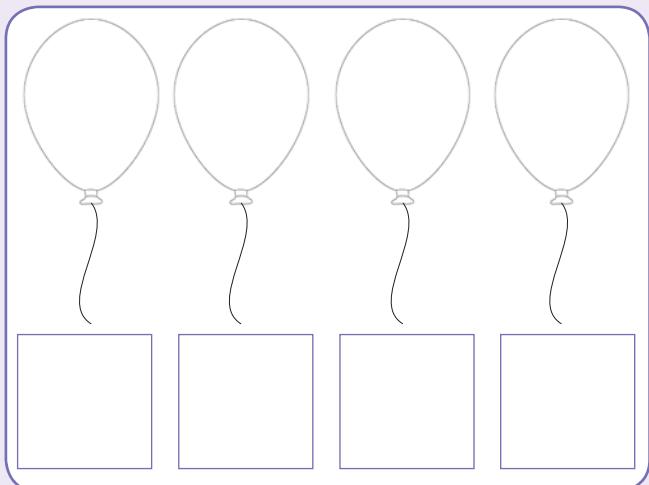
Khalara kotara ya tibaluni hi muhlovo wo tshwuka kasi leti saleke hinkwato hi muhlovo wa wasi.

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



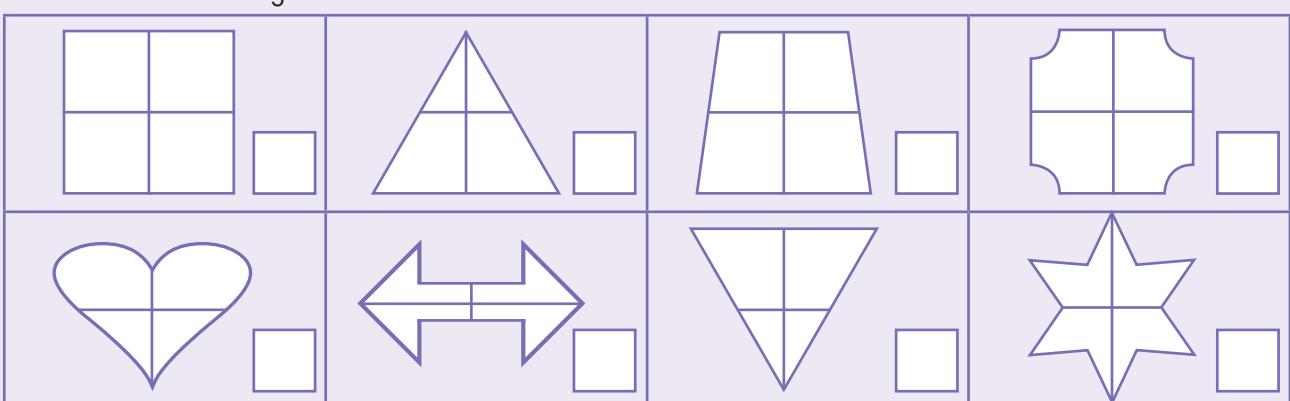
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tihafu.

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



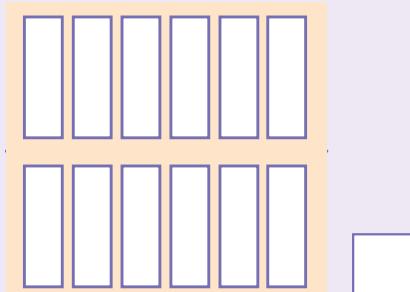
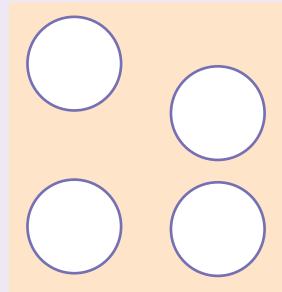
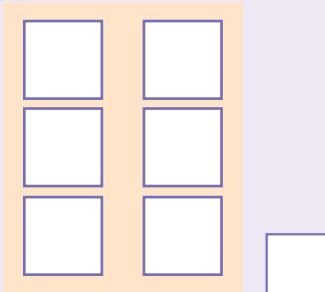
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tikotara.

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

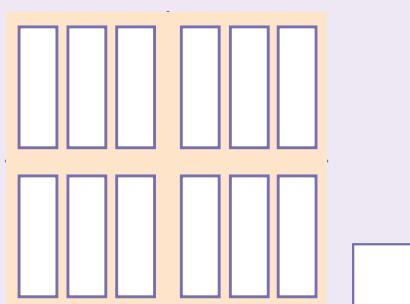
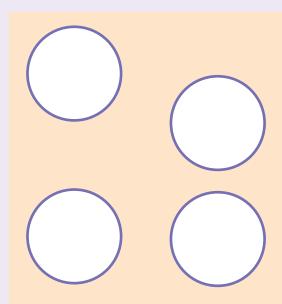
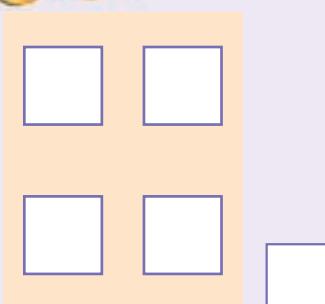




Khalara hafu ya swivumbeko. Xana hafu ya nhlayo ya swivumbeko i yini?



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



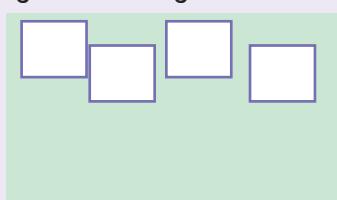
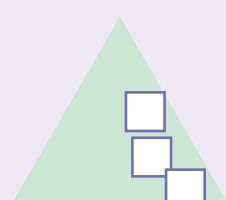
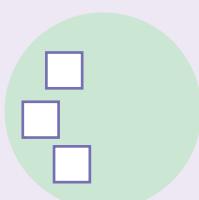
Tsala taniki mfungho wa xiphemu.

hafu

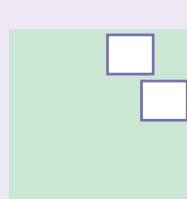
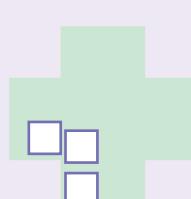
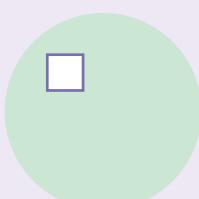
kotara



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

Kotara ya I



Exitokofeleni

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



Pimanyisa ntsengo hinkwawo. R _____

Hlayela mali. R _____

**Ringanisa mikumbetelo
na mitsengo.**



Ku hlayisa mali

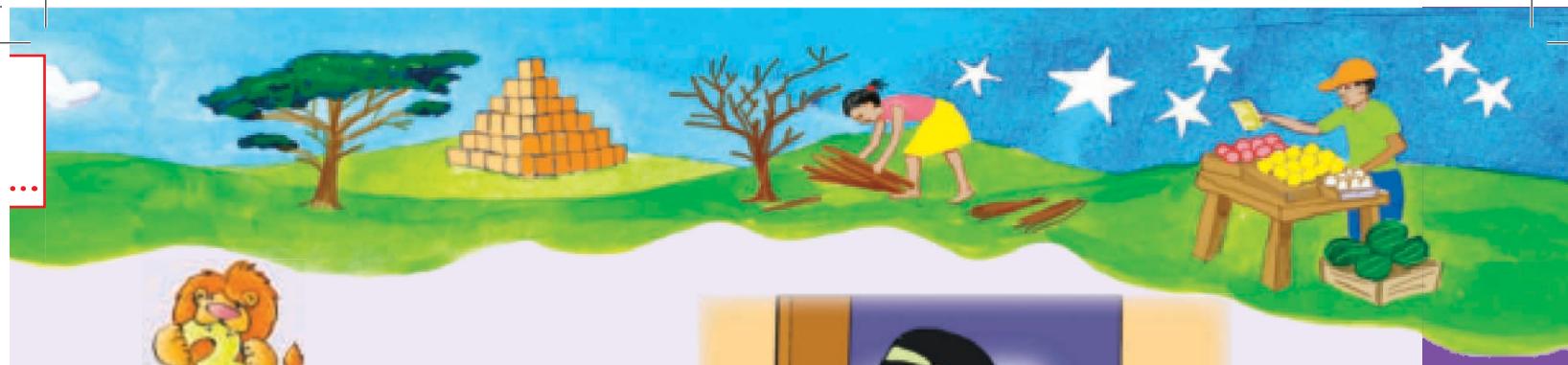
Gugu u hlayisa mali yo kota ku xava tintanghu leti durhaka R89.

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.

Una timali ta phepha leti saleke.

Tsala mitsengo ya xifaniso xin'wana
na xin'wana.



Ntsengo

	R _____
	R _____
	R _____



Ntlhontlho

Rendzo ro ya entangeni wa swiharhi

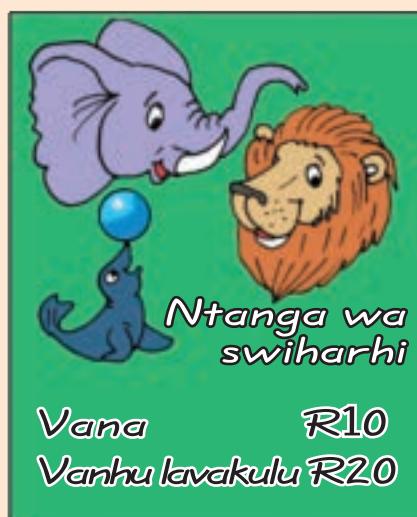
Vanhu lavakulu na vana va ya entangeni
wa swiharhi. Va xava mathikithi ya R90.

Xana vana i vangani? _____

Xana lavakulu i vangani? _____

Xana ku na nhlamulo yin'wana?

Vanhu lavakulu _____ Vana _____



Teacher:

Sign:

Date:



Siku:

Kotara ya |



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.

	5		10						

Ku hlayela hi vumbirhi.

2	4								

Ku hlayela hi vunharhu.

	3	6							

Ku hlayela hi vukhume.

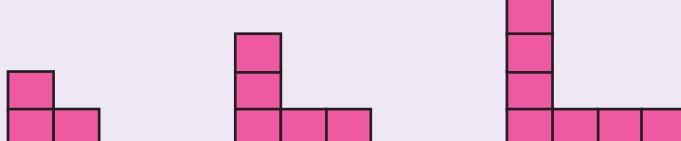
									10

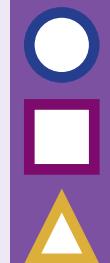


Engetela patironi.









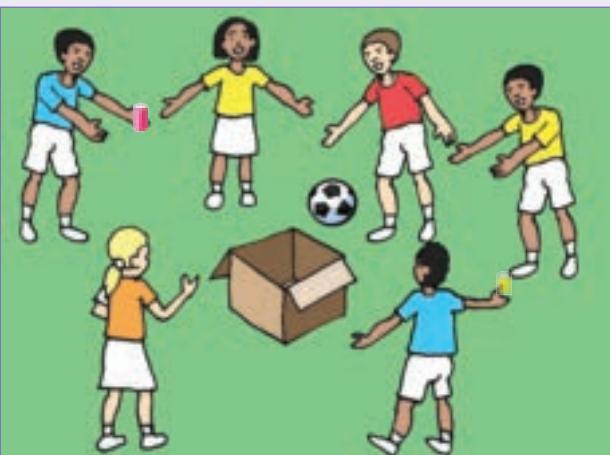
Teacher: Sign:
Date:

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

rheta
khunguluka



Silindara

rheta
khunguluka



Bolo

rheta
khunguluka



Khalara nhlamulo leyi faneleke.



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



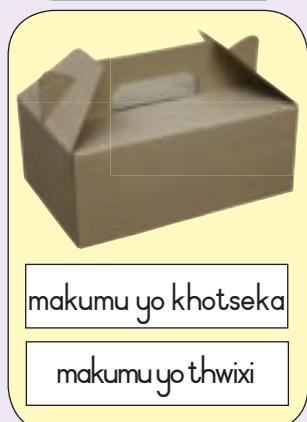
makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



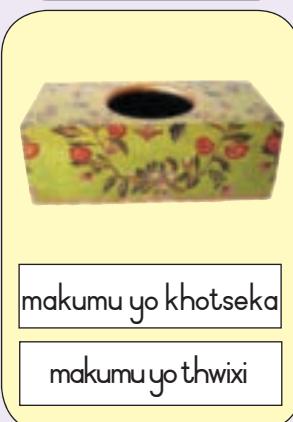
makumu yo khotseka

makumu yo thwixi



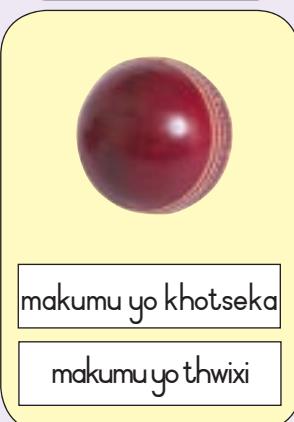
makumu yo khotseka

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

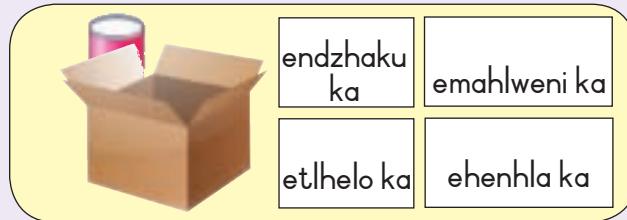


endzhaku
ka

emahlweni ka

etlhelo ka

ehenhla ka



endzhaku
ka

emahlweni ka

etlhelo ka

ehenhla ka



endzhaku
ka

emahlweni ka

etlhelo ka

ehenhla ka



Teacher:
Sign:

Date:



Siku:



Kotara ya I



Dirowa swivumbeko

Yinhlanhharhu



Xirhendzevutana



Xikwere

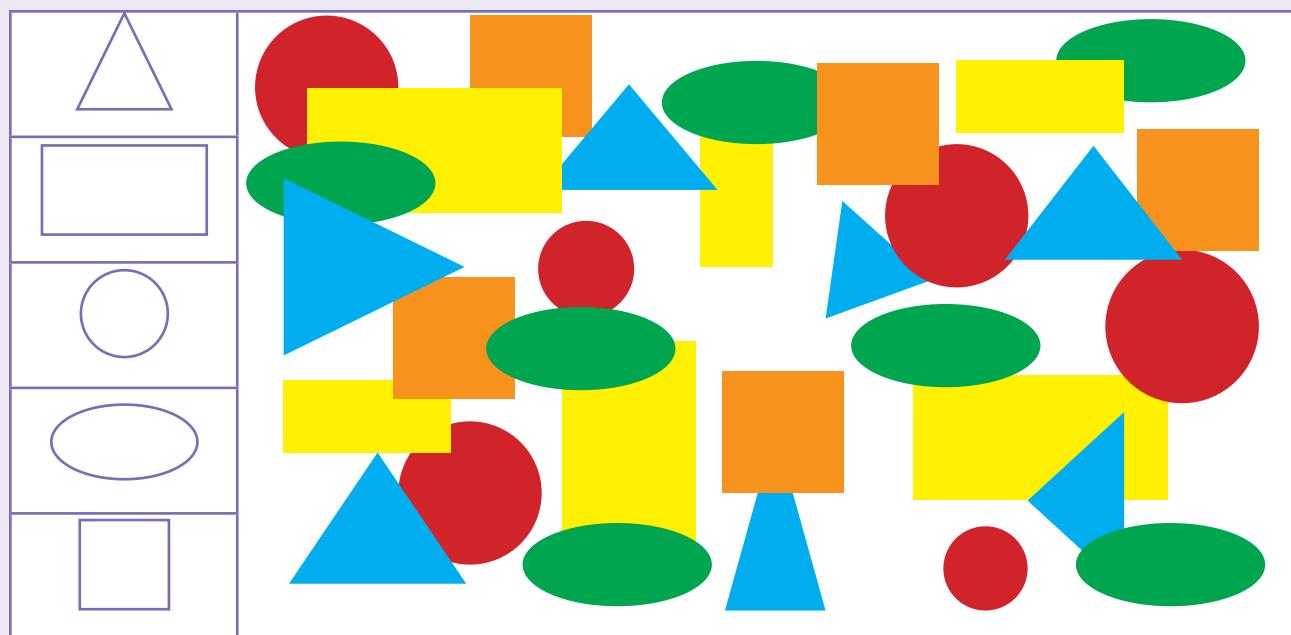


Yinhlamune



Ku hlayela swivumbeko

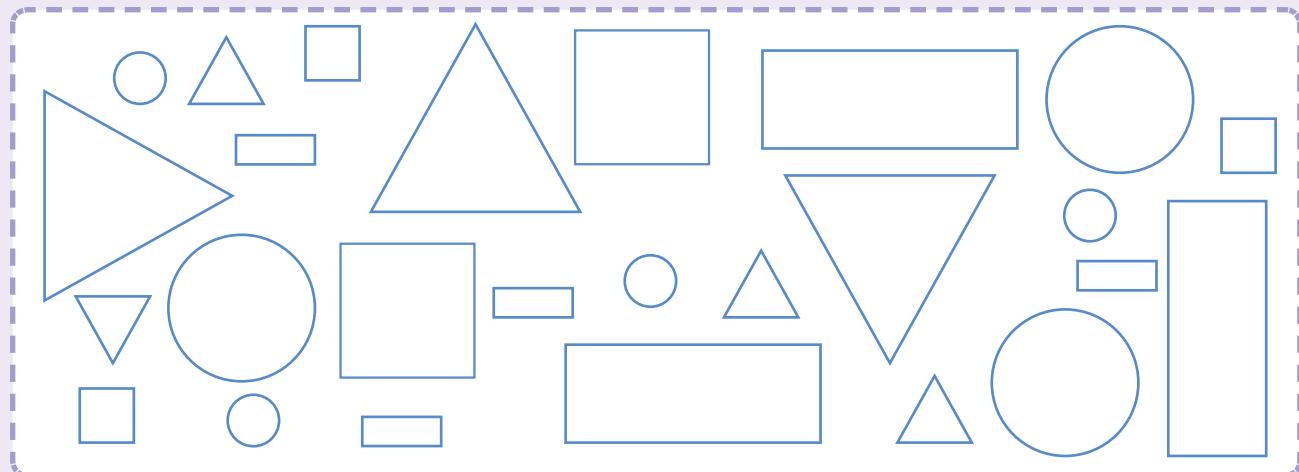
Hlayela leswaku ku na swivumbeko swingani swo fana na leswi u nga swi kuma exifanisweni.





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?

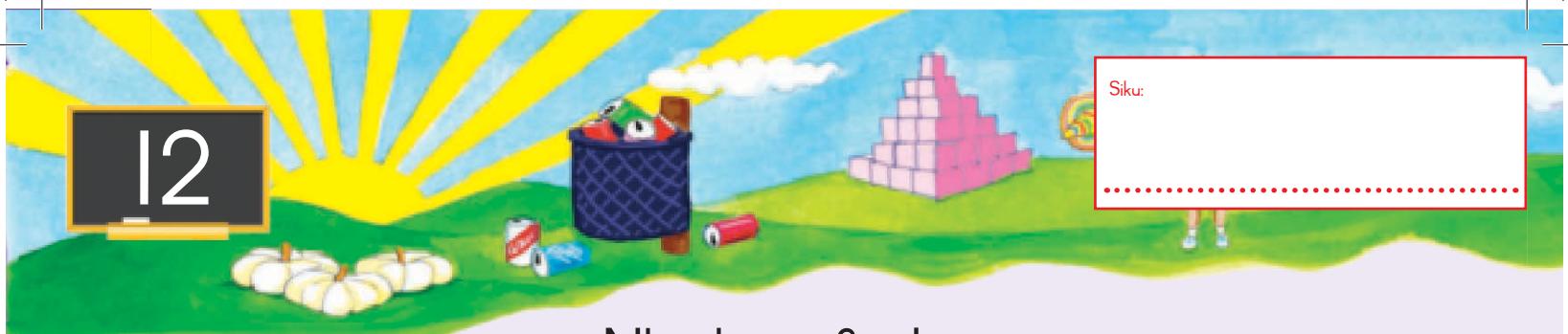
Xana i matlhelo mangani lama xivumbeko xin'wana na xin'wana xi nga na wona? Tsala nhlayo leyi nga eka xivumbeko. Hi ku endlele xin'we? Khalara nhlamulo leyi faneleke.

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

○
□
△
▲

Teacher:
Sign:
Date:

12



Kotara ya I



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.



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:

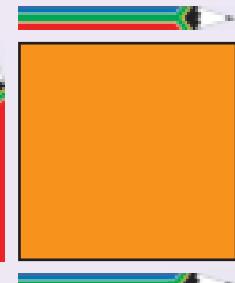
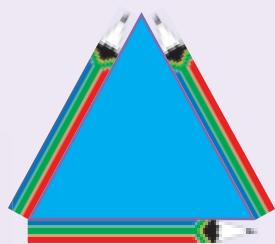
11 12 13 14 15 16 17 18 19 20

13

Siku:

Kotara ya!

Ku pima ku leha



Kun'we, hinkwawo
matlheloo ya
yinhlamharhu leyi
ya lehile ku ringana
3 wa tipensele.



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



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

Xana yinhlamune yi lehile ku ringana tipensele tingani?



Xana yinhlamune yi anamile ku ringana tipensele tingani?

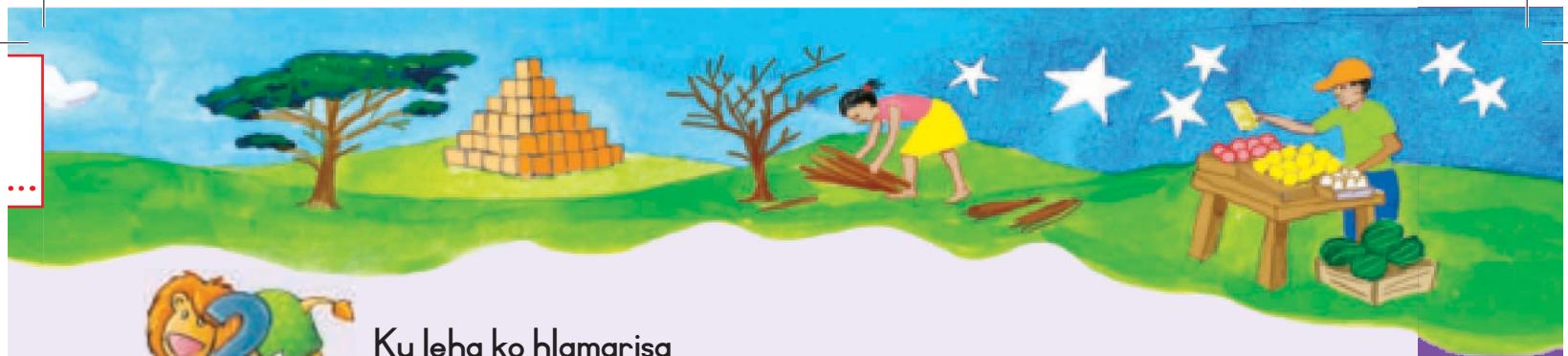


ku leha



vuanami

Xana u ti tirhise njhani tipensele ku hlayela?

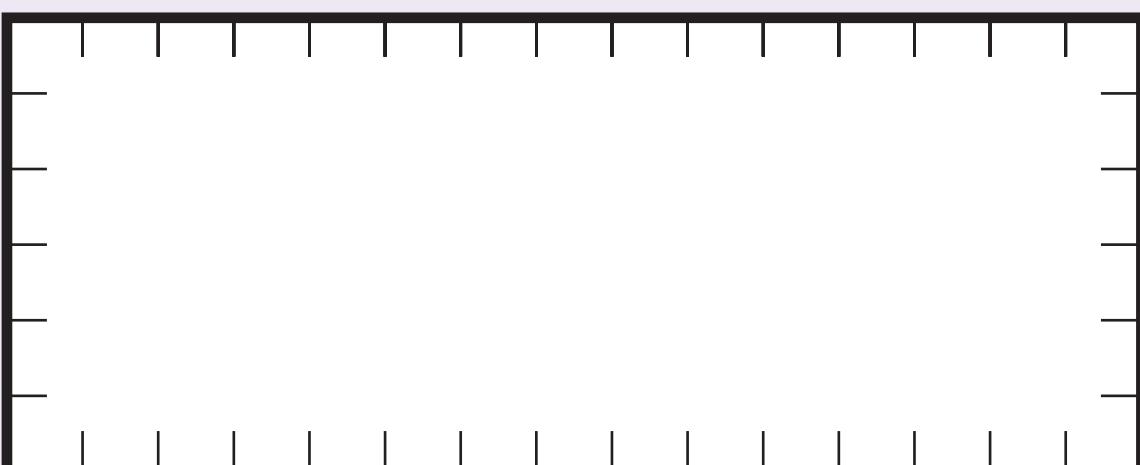


Ku leha ko hlamarisa

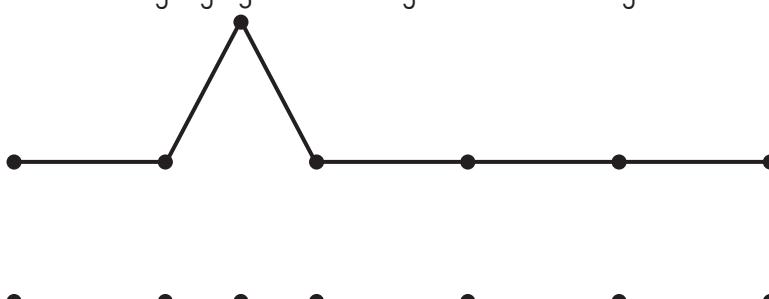
- a. Xana i mitila yo **tshwuka** yingani leyi u faneleke ku yi kuma ku kota ku ringana na ntla wa ntima?



- 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

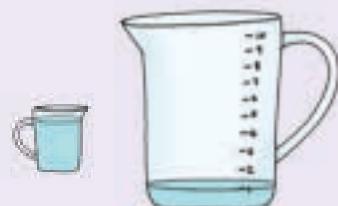
Se ndzi cherile malepula ya
mune endzeni ka khapu.

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



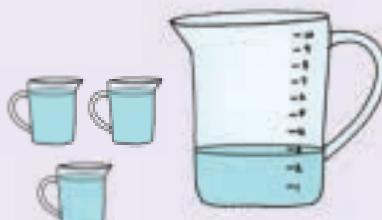
Xana ku na tikhapu ta mati tingani exibyen xo chela? Xana ku laveka tikhapu tin'wana
tingani ku kota ku tata xibye xo chela?

a.



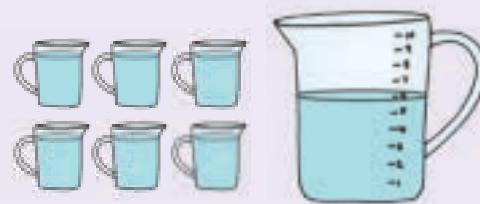
Endzeni ka xibye: Ku laveka: 9

b.



Endzeni ka xibye: Ku laveka:

c.



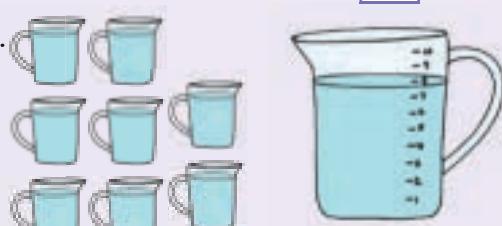
Endzeni ka xibye: Ku laveka:

d.



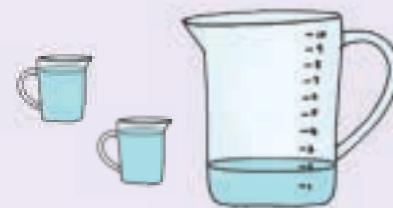
Endzeni ka xibye: Ku laveka:

e.



Endzeni ka xibye: Ku laveka:

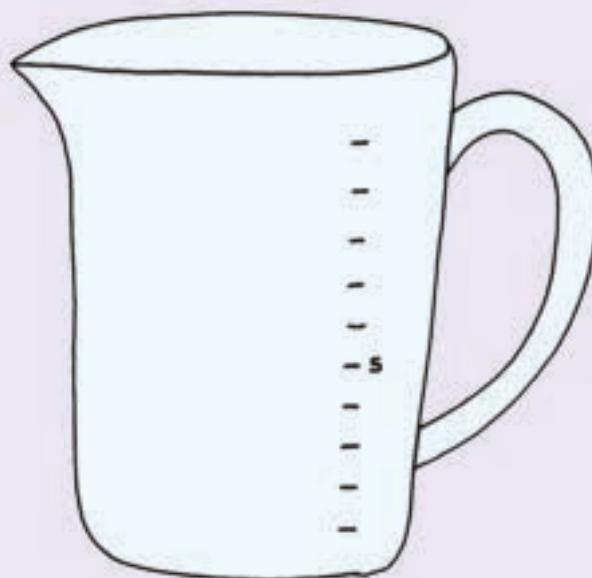
f.



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:

- a. 4 _____
- b. 6 _____
- c. 8 _____
- d. 10 _____



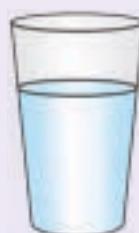
Gwajula swibye swo chela leswi khomaka 1 litara ya swihalaki.













Teacher:
Sign:

Date:

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



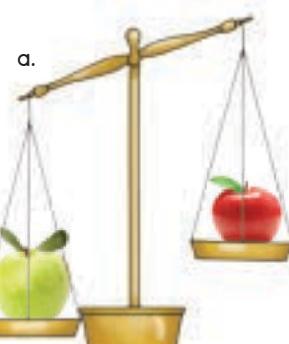
39 kg



Hi tirhisa xikalu xa balansi ku pima ntiko.

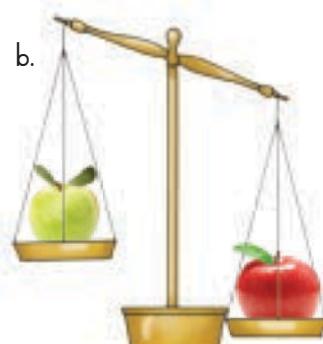


Eka xikalu lexi maapula hinkwawo
ya tika ku ringana.



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.



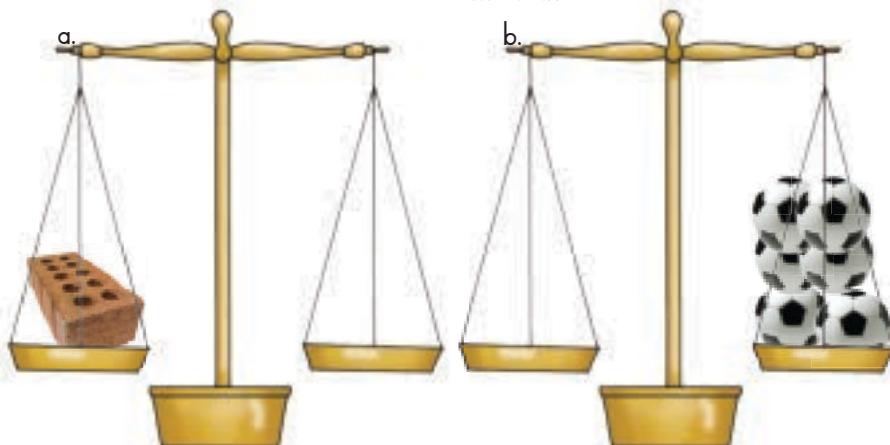
Ringanisa swikalu.

Hi ku endlele xo sungula.



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

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



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

a. 2 maphasela _____

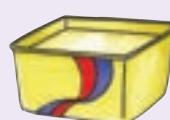
b. 3 maphasela _____

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.

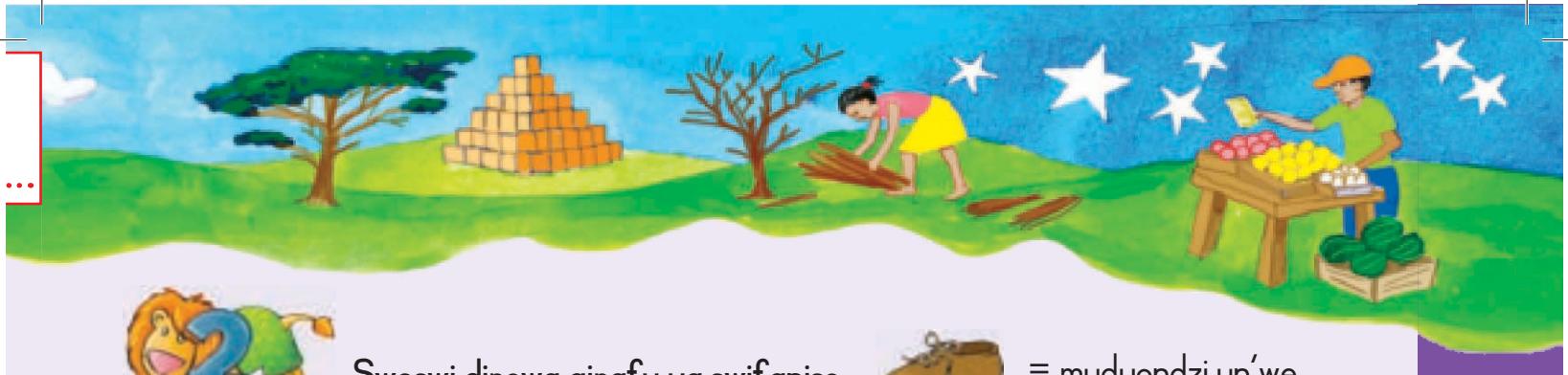
Manana Khoza: Hlayelani, kutani mi tsala ntsengo wa sayizi yin'wana na yin'wana etafuleni.

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 mitlawwa yin'wana.



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 siyjiveke.

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 leyi nyikiweke.

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



Bana xirhendzevutana eka nomboro leyikulu swinene.

78	87	17	36	63	33
----	----	----	----	----	----

Bana xirhendzevutana eka nomboro leyitsongo swinene.

99	19	9	14	41	40
----	----	---	----	----	----



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

32	>	64	23	>	18
----	---	----	----	---	----

57	<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



Kotara ya |



Ku kombisa tinomboro hi ku tirhisa swilo

Hi nga kombisa tinomboro hi tibuloko ta nkoka wa ndhawu.

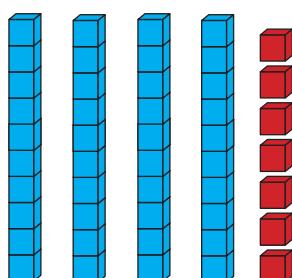
Buloko leyitsongo yi yimela I. I yuniti/vun'we.

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

Vukhume	Vun'we
10	2
10	2

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.

Vukhume	Vun'we	Vukhume	Vun'we	Vukhume	Vun'we
3	1				

31

makumenharhu n'we



2 0 b

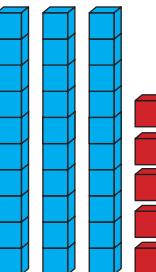
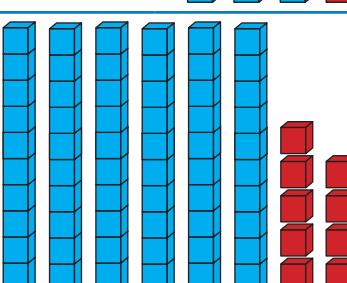
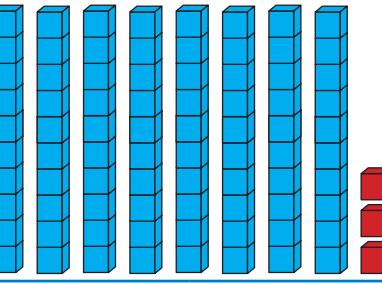
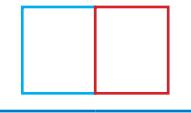
2 b

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</p> <p>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> <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> <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
1 khume	12 ya vun'we

1 0 1 0 2

Hi na vukhume byin'we



Hi na
tiyuniti ta
khumembirhi

Hi ta veka 10
wa tiyuniti hi
ntlawa.

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

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

2 2

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

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

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

2 0 7 4

Hi na 2 ya vukhume
na 11 ya vun'we

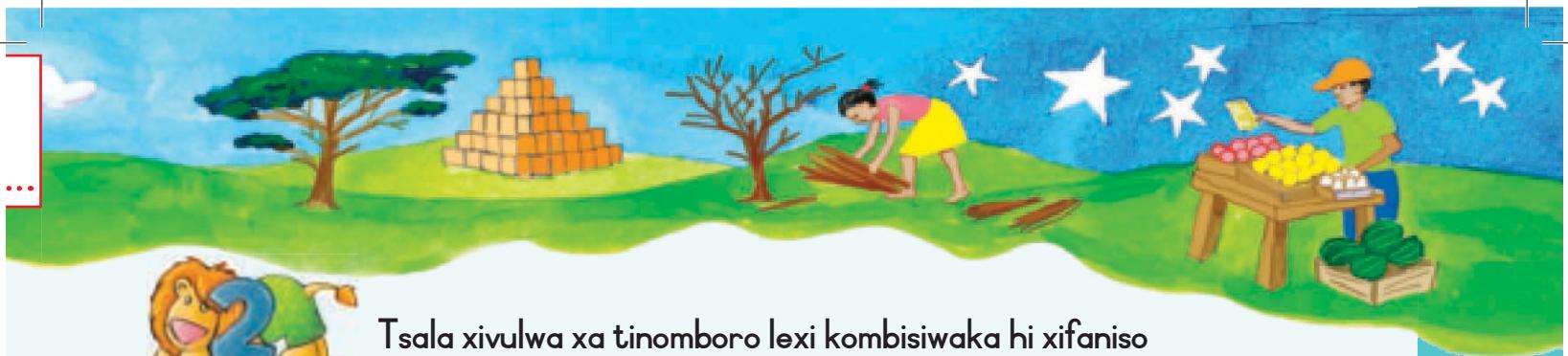
Vukhume	Vun'we
2 0 1 0	1

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

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

Vukhume	Vun'we
3 1	

— + — = —



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.

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



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.

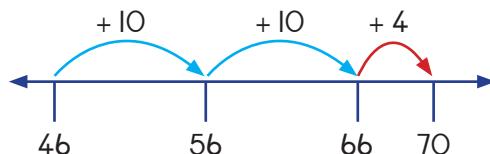
Ku na 46 wa vadyondzi eka Giredi ya 3A na 24 eka Giredi ya 3B.

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.



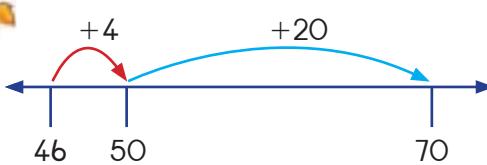
a. $32 + 25 =$

← →



b. $52 + 26 = \boxed{}$

c. $46 + 25 = \boxed{}$



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. $36 + 41 = \boxed{}$



11 12 13 14 15 16 17 18 19 20
 bmmmmmmmmmmmmmmmmmmmmmmmmmmmm

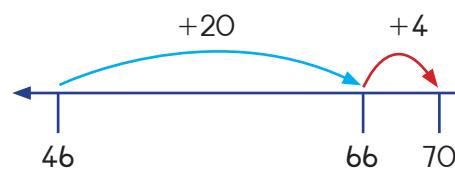
20b

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. $65 + 29 = \square$



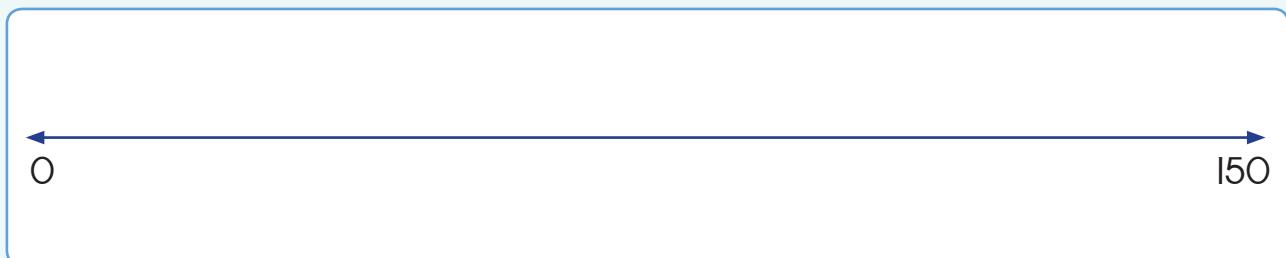


Xana i malofo mangani?

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.

$38 + 24 =$

$58 + 17 =$



$75 + 16 =$

$83 + 29 =$



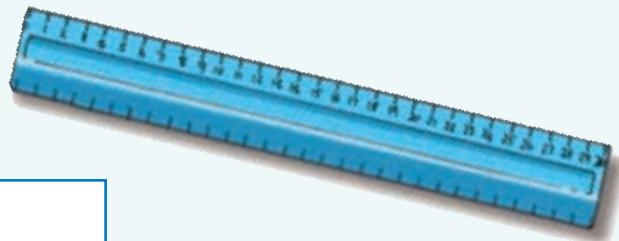
2|a

Siku:

Kotara ya |

Susa eka ndzhati wa mitsengo

Mudyondzi un'we! Rhula yin'we!

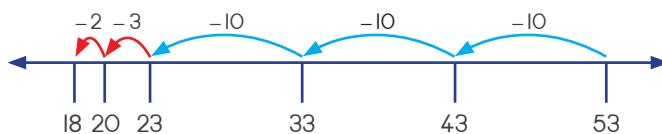


Tlilasi yi lava 53 wa tirhula. Ho va na 35 ntsena.

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**.

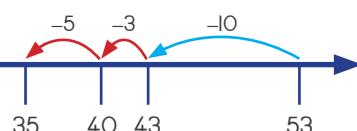




a. $68 - 24 = \boxed{}$

b. $74 - 38 = \boxed{}$

c. $92 - 87 = \boxed{}$



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. $38 - 14 = \boxed{}$



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

2lb

Siku:

Susa eka ndzhati wa mitsengo (ku yisa emahlweni)

Kotara ya |

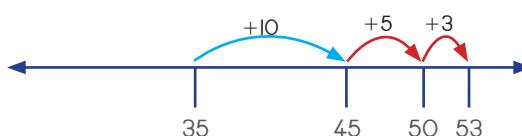
b. $65 - 43 = \square$



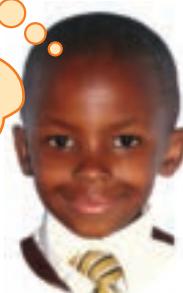
c. $72 - 39 = \square$



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.

😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			
😊			



23

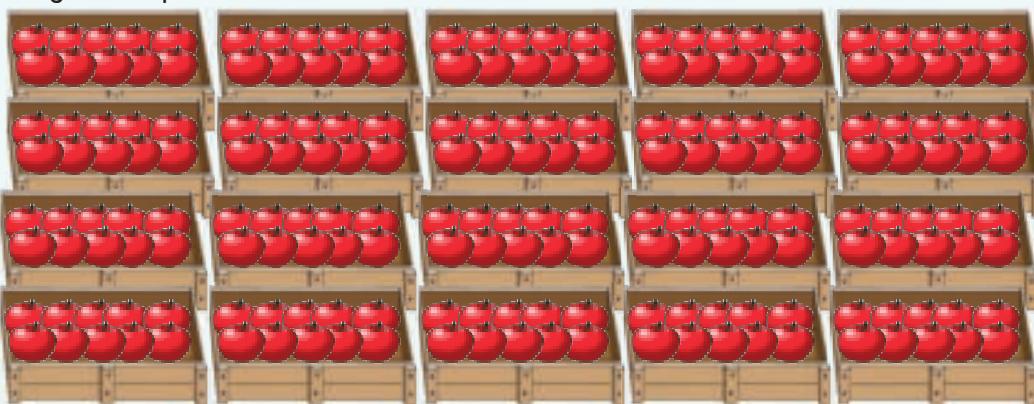
Siku:

Kotara ya!



Ku hlayela ku fika eka 200

Hlayela maapula



Tata tinomboro

Bokisi ri na wa maapula

Rixaxa ri na wa mabokisi

Rixaxa ri na wa maapula

Tinxaxa ta 4 ti na wa maapula



Xana hi nga paka maapula mangani eka mabokisi lama?

a.



b.



c.



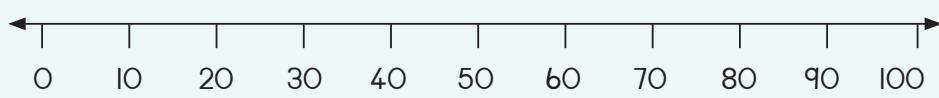


Hlayela eka ndzhati wa mitsengo.

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



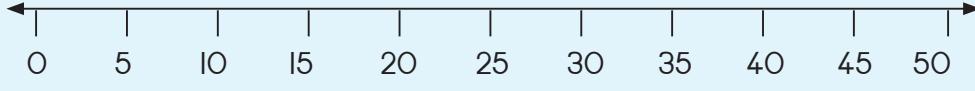
$$5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{35} \text{ kumbe } \boxed{7} \times \boxed{5} = \boxed{35}$$

a.



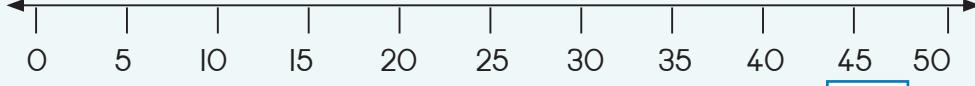
$$5 + 5 + 5 + 5 = \boxed{\quad} \text{ kumbe } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

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"/>



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 1 – 60.

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

2, 4, 6,

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

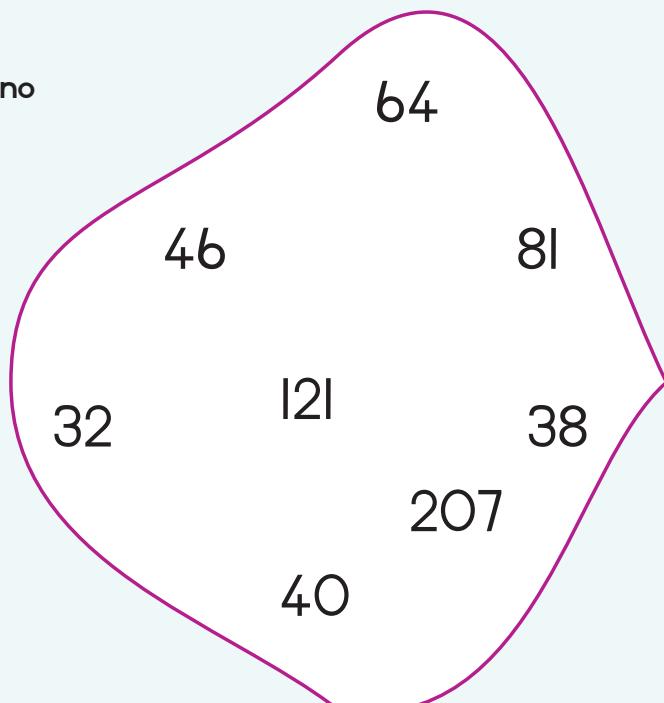
3, 5, 7,



Fadzenga na ndzingano

Dirowa xirhendzevutana eka tinhlayo-ndzingano.

Dirowa xikwere eka tinhlayo-fadzenga.





Ku suka eka tiphere ku ya eka masokisi

Xikombiso:

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



$$2 \times 1 = 2$$

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

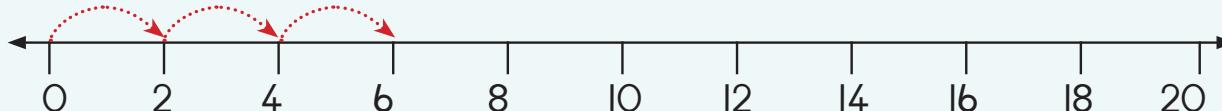
$$2 \times 10 = 20$$

a. Tsala leswaku i masokisi mangani.

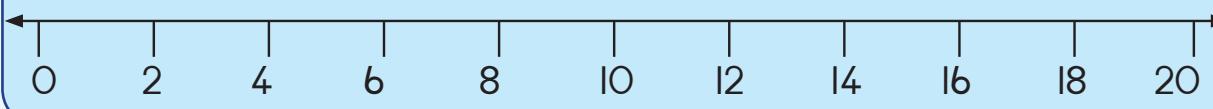
Ehleketa hi vu - 2	Xivulwa xa tinomboro
1 phere = 2 wa masokisi	$2 \times 1 = 2$
2 wa tiphere = _____ wa masokisi	$2 \times 2 =$ _____
4 wa tiphere = _____ wa masokisi	
8 wa tiphere = _____ wa masokisi	
9 wa tiphere = _____ wa masokisi	

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

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



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



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

26

Siku:

Kotara ya |

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?



11 12 13 14 15 16 17 18 19 20

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

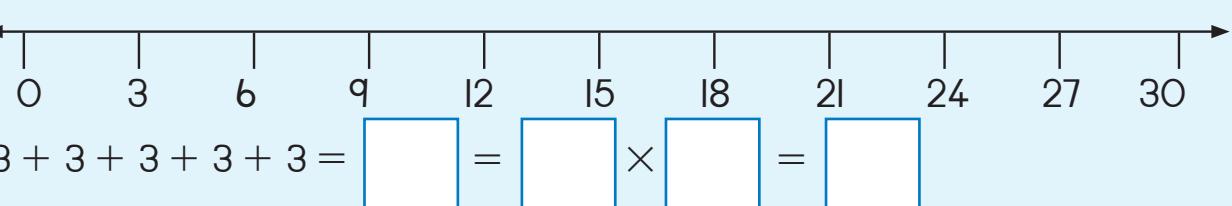
Landzelela xikombiso.



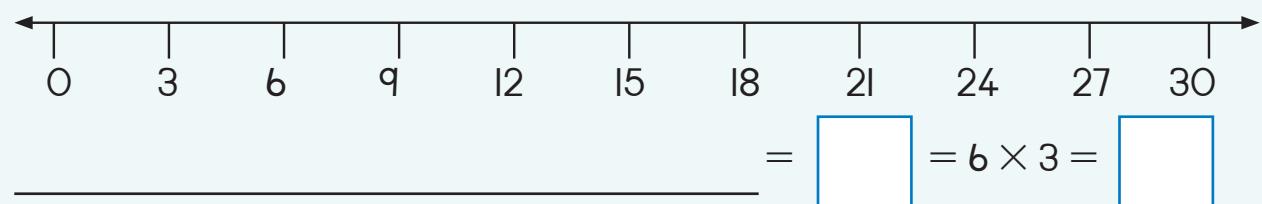
a. $3 + 3 + 3 + 3 = \boxed{\quad} = 4 \times 3 = \boxed{\quad}$



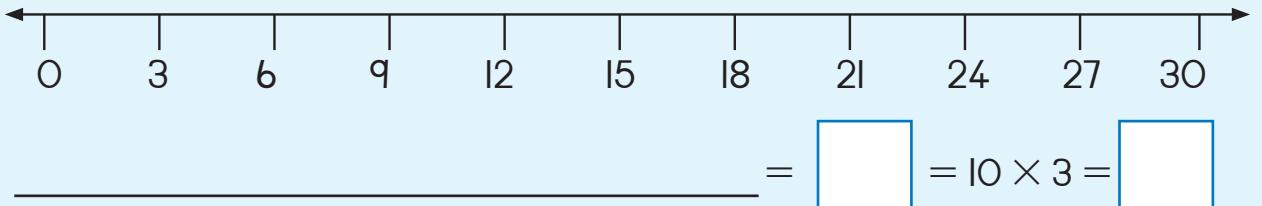
b.



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:

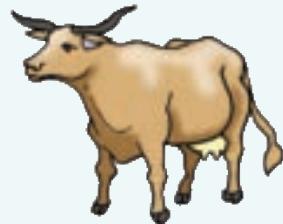
Kotara ya |



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? _____

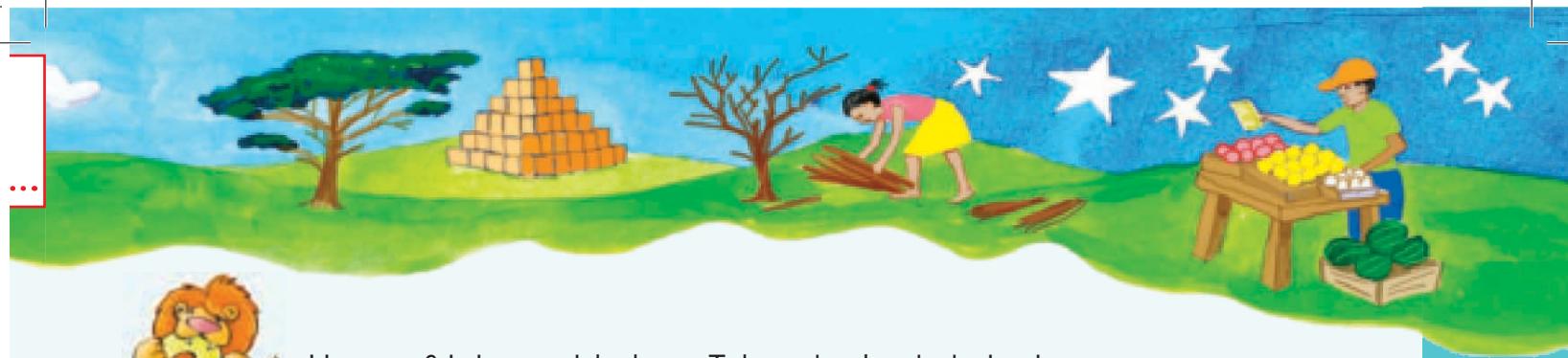


Hlayela milenge

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



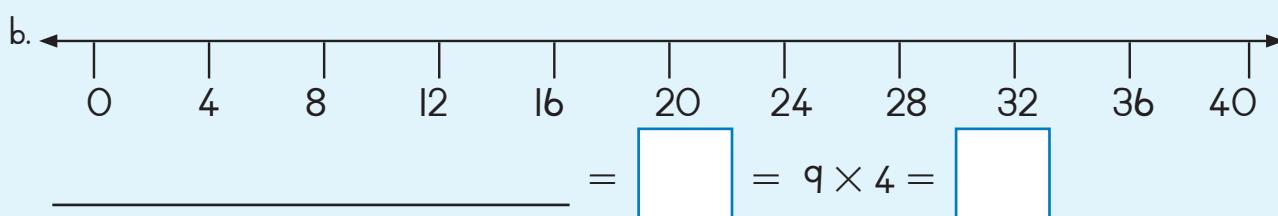
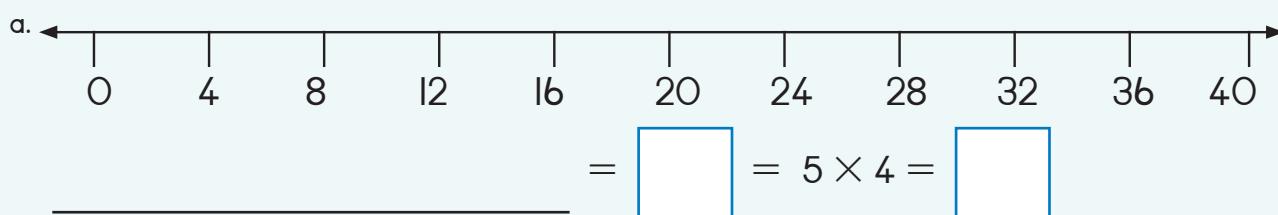
Hetisa tafula leri nga laha hansi. Tirhisa xikombiso ku ku letela.

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.



Teacher: _____
Sign: _____
Date: _____

29

Siku:

Kotara ya!



Tipatironi ta giridi

Tipatironi eka tinomboro

Xana swirhendzevutana eka giridi yin'wana ya 100 swi kombisa patironi yihi ya tinomboro?

Dirowa swirhendzevutana swin'wana ku hetisa patironi yin'wana na yin'wana.

Tsala vito ra patironi yin'wana na yin'wana.

a. Patironi: _____

			○				○		
			○				○		
			○				○		
			○				○		
			○				○		
			○				○		
			○				○		
			○				○		
			○				○		
			○				○		

b. Patironi: _____

○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	
○		○		○		○		○	

c. Patironi: _____

		○			○			○	
○			○			○			○
○			○			○			○
○			○			○			○
○			○			○			○
○			○			○			○
○			○			○			○
○			○			○			○
○			○			○			○
○			○			○			○

d. Patironi: _____

			○				○		
○				○			○		
○				○			○		
○				○			○		
○				○			○		
○				○			○		
○				○			○		
○				○			○		
○				○			○		
○				○			○		

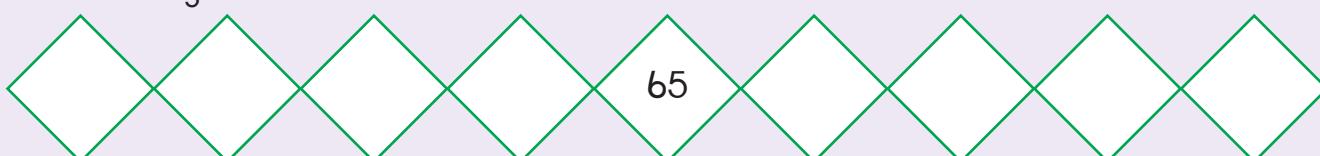


Endla tipatironi ta wena n'wini

- 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?

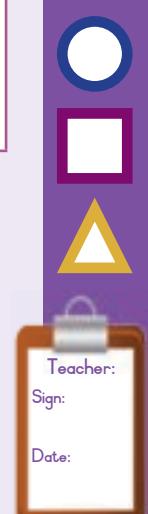


Patironi ya vu-3 na vu-4	Patironi ya vu-3 na vu-5	Patironi ya vu-4 na vu-5
xik. 48		



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
 bmmmmmmmmmmmmmmmmmmmmmmmmmmmm

30a

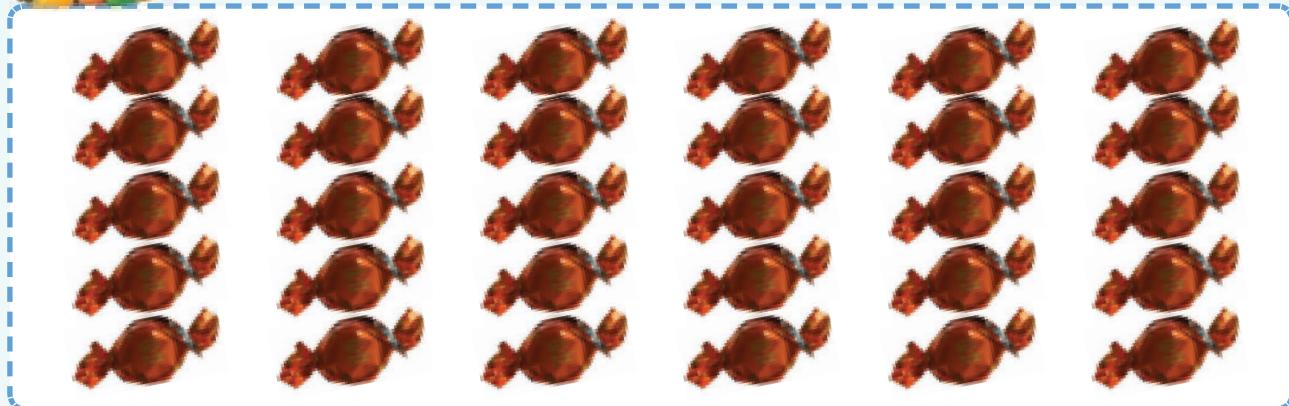
Siku:

Kotara ya |



Ava swiwitsi

Ku avanyisa



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



Hi nga yi tsala tanahi

$$30 \div 2 = 15$$

- b. Ava swiwitsi exikarhi ka 3 wa vana.

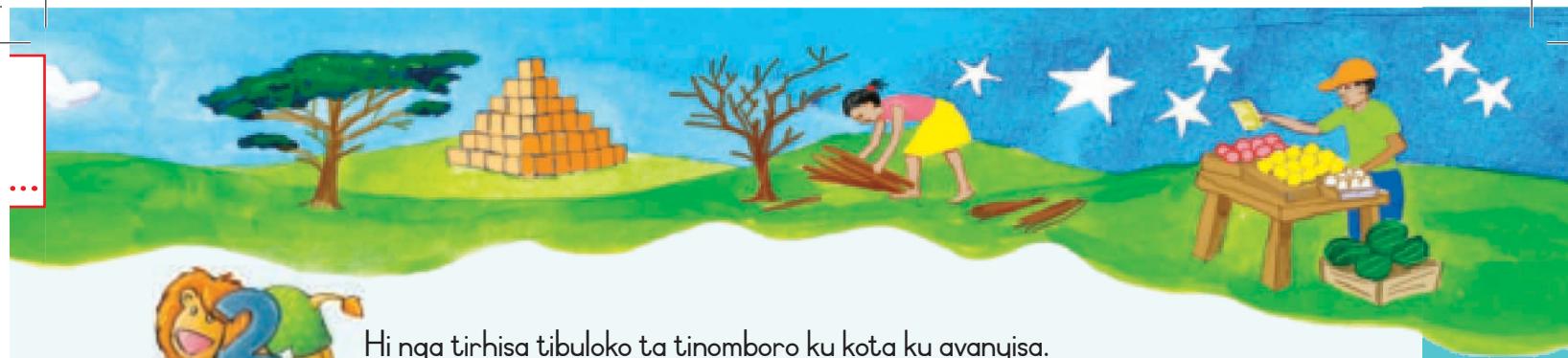


$$\div =$$

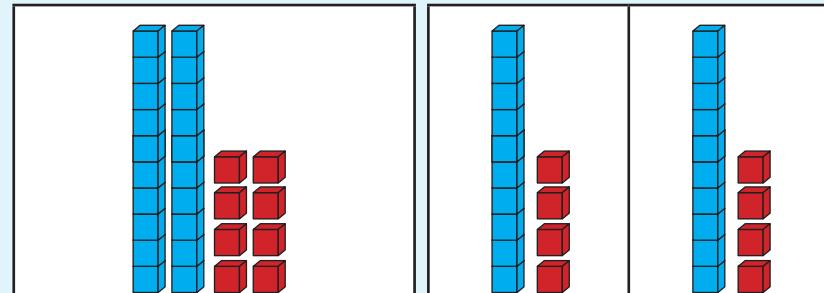
- c. Avanyisa swiwitsi exikarhi ka 5 wa vana.



$$\div =$$



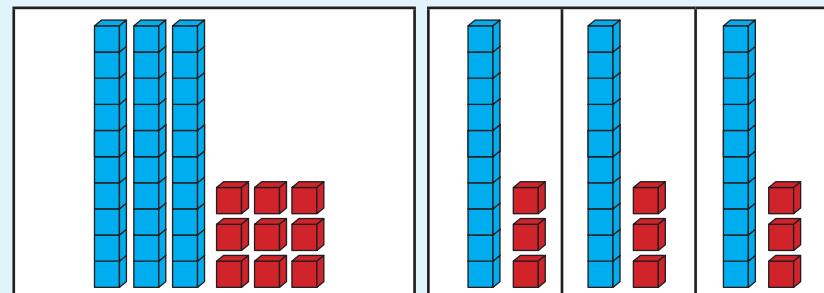
Hi nga tirhisa tibuloko ta tinomboro ku kota ku avanyisa.



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

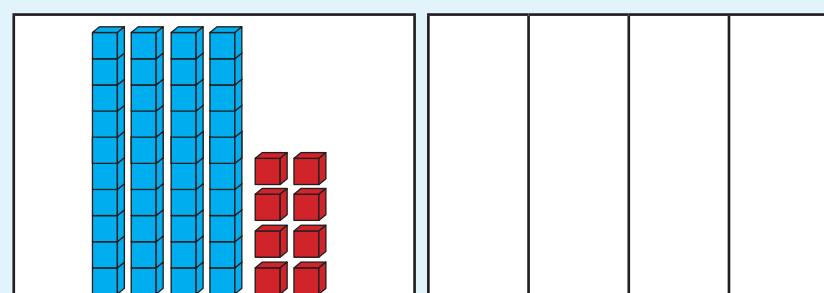
Sweswi endla leti.

a.



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

b.



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



Teacher:
Sign:
Date:

30b

Siku:

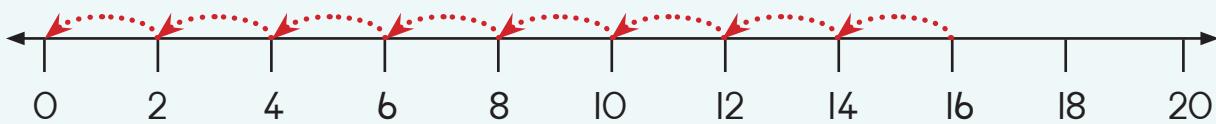
Ku avanyisa (ku yisa emhlweni)

Kotara ya |



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

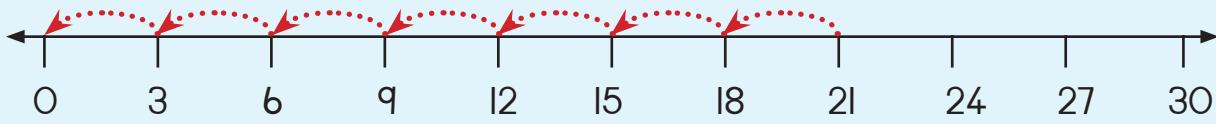
Xikombiso:



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

$$16 \div 2 = 8$$

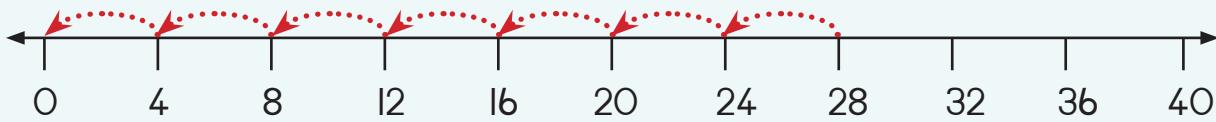
a.



$$\begin{array}{r} 21 - \\ \hline \end{array} =$$

$$\boxed{} \div \boxed{} =$$

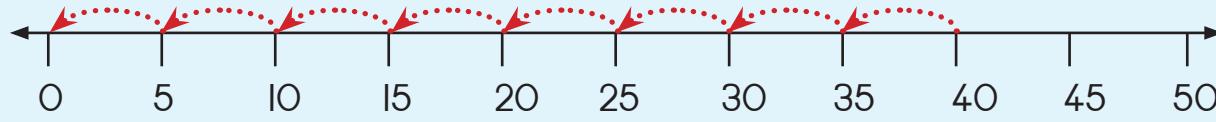
b.



$$\begin{array}{r} 28 - \\ \hline \end{array} =$$

$$\boxed{} \div \boxed{} =$$

c.



$$\begin{array}{r} - \\ \hline \end{array} =$$

$$\boxed{} \div \boxed{} =$$



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

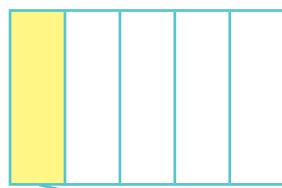
Siku:

Kotara ya |

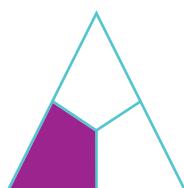
Swiphemu



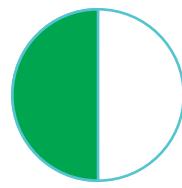
Dirowa mitila ku yelanisa xivumbeko na xiphemu.



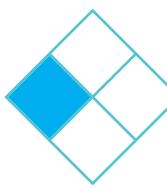
$$\frac{1}{3} \text{ n'we-xa-nharhu}$$



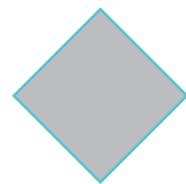
$$\frac{1}{5} \text{ n'we-xa-ntlhanu}$$



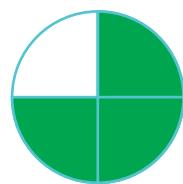
$$\frac{1}{4} \text{ n'we-xa-mune}$$



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



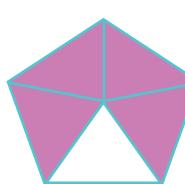
$$\frac{3}{4} \text{ nharhu-xa-mune}$$



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

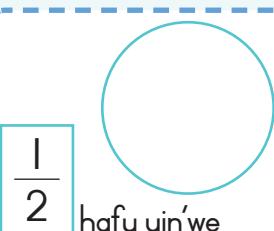


$$1 \text{ xiheri}$$

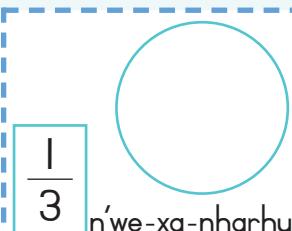


$$\frac{2}{3} \text{ mbirhi-xa-nharhu}$$

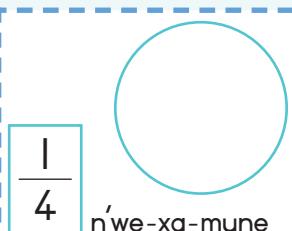
Khalara:



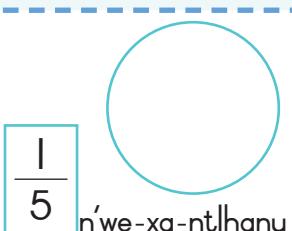
$$\frac{1}{2} \text{ hafu yin'we}$$



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

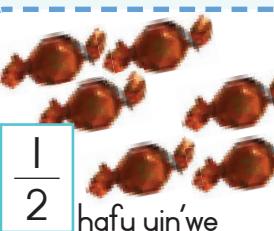


$$\frac{1}{4} \text{ n'we-xa-mune}$$

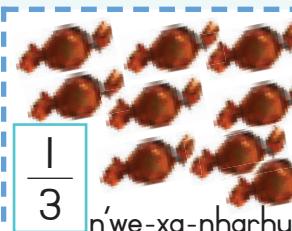


$$\frac{1}{5} \text{ n'we-xa-ntlhanu}$$

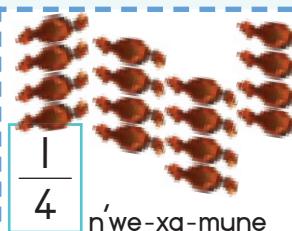
Kombisa ____ ya swiwitsi:



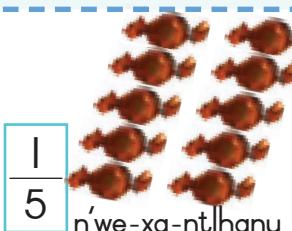
$$\frac{1}{2} \text{ hafu yin'we}$$



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



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



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



Ava swihlayelo exikarhi ka vana vambirhi.

<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>					<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>					<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>					<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>				
Un'wana na un'wana u amukerile 2 wa swihlayelo. $\frac{1}{2}$ ya 4 wa swihlayelo i 2.	Un'wana na un'wana u amukerile ___ wa swihlayelo. ___ ya ___ wa swihlayelo i ___.	Un'wana na un'wana u amukerile ___ wa swihlayelo. ___ ya ___ wa swihlayelo i ___.	Un'wana na un'wana u amukerile ___ wa swihlayelo. ___ ya ___ wa swihlayelo i ___.																
$4 \div 2 = 2$	$\underline{\quad} \div \underline{\quad} = \underline{\quad}$	$\underline{\quad} \div \underline{\quad} = \underline{\quad}$	$\underline{\quad} \div \underline{\quad} = \underline{\quad}$																



Ava swiwitsi exikarhi ka vana.

<table border="1"> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td></tr> </table>									<table border="1"> <tr> <td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td></tr> </table>						
<ul style="list-style-type: none"> kotara ya swiwitsi = 3 n'we-xa-nharhu ya swiwitsi = ___ mbirhi-xa-mune ya swiwitsi = ___ mbirhi-xa-nharhu ya swiwitsi = ___ 	<ul style="list-style-type: none"> nharhu-xa-mune ya swiwitsi = ___ nharhu-xa-nharhu ya swiwitsi = ___ mune-xa-mune ya swiwitsi = ___ 														



32



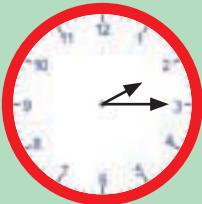
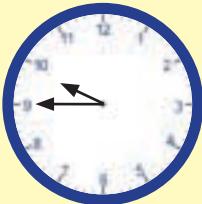
Siku:

Kotara ya!

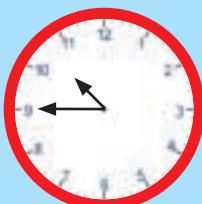


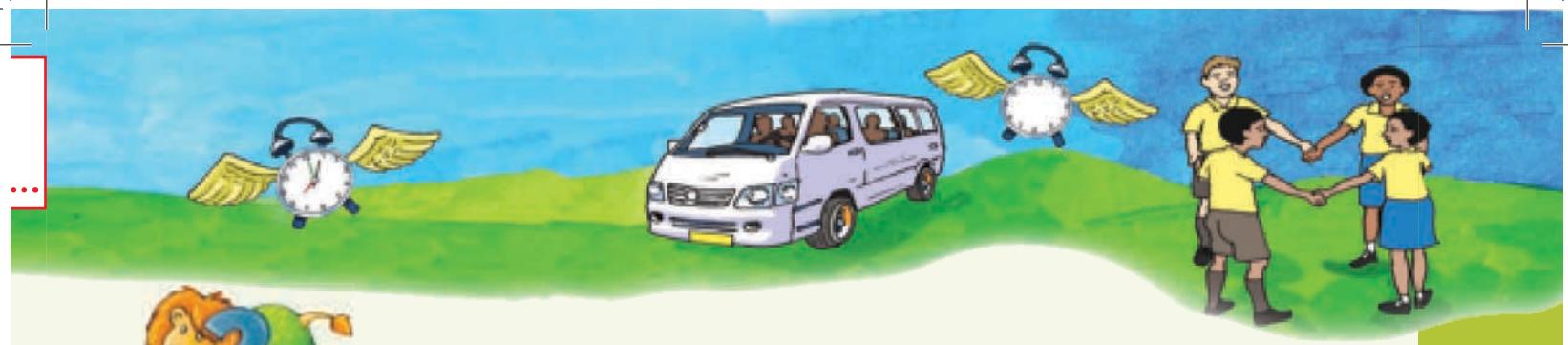
Fambelo ra wachi

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

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

Tsala leswi hi tindlela to hambana.

		
_____	_____	_____



Ku ya ekaya

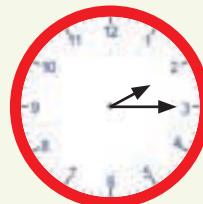
Xana Ben u teka nkarhi wo tanihi kwihi ku fika ekaya?

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 hinkwawo ka wona? _____.
- 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:

Kotara ya 2



Ku hlayela tinomboro

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



101	102								
111									
121									
131									



Tsala tinomboro

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

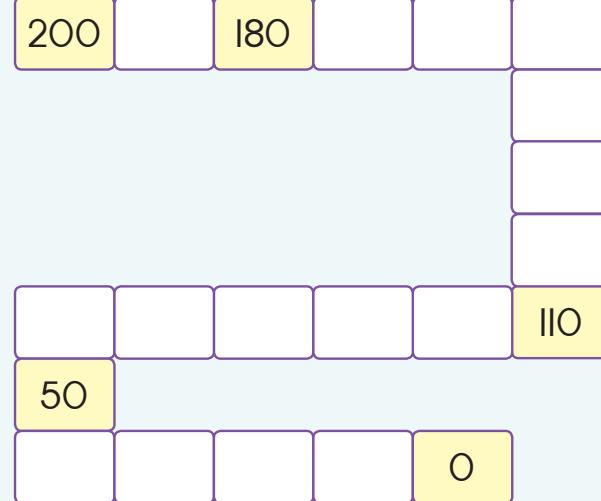
200; _____; _____; _____; _____; _____; _____; _____; _____; _____; _____



Tsala tinomboro leti siyiweke.

a. 200

180



b. 87

107

167

207

237



Hetisa

200

+ 30

+ 5

= 235

200

+ 40

+ 7

= _____

200

+ 60

+ 8

= _____

--	--

--	--

--	--

= 293

--	--

--	--

--	--

= 256

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



Ku hlayela ku suka eka 100

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

Sungula



Heta



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

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? _____

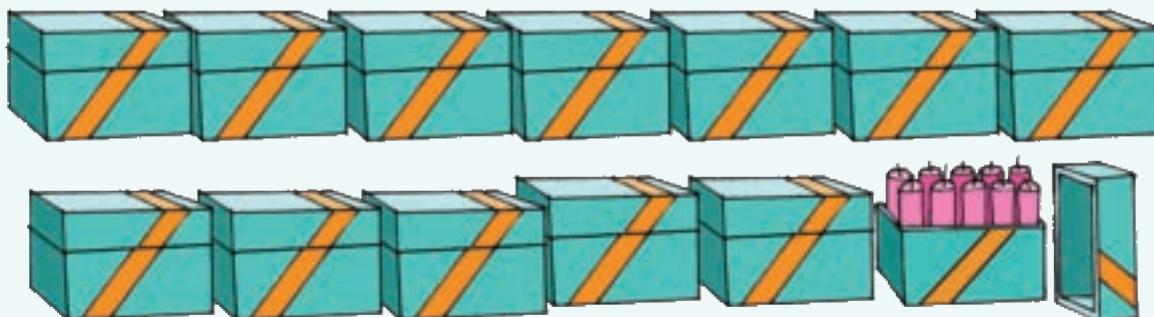
Xana ku na mabokisi mangani eka rhaka yin'wana na yin'wana? _____

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



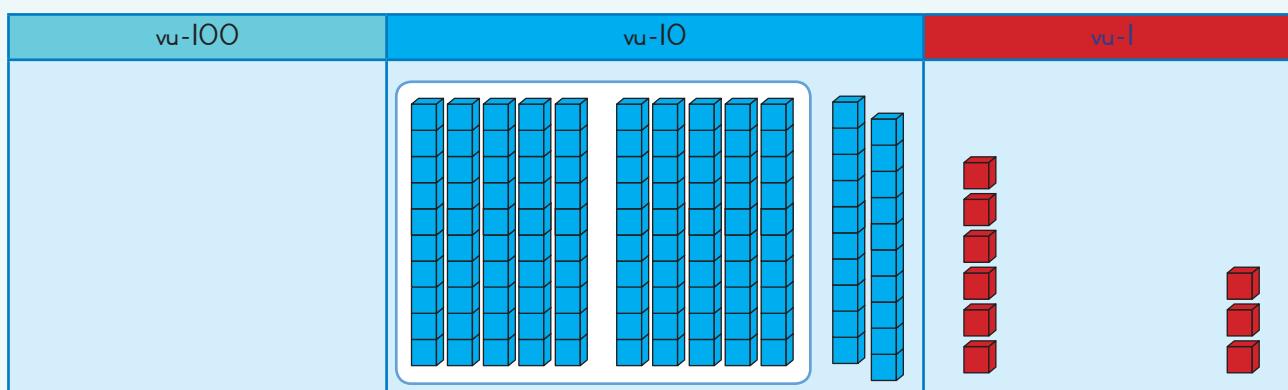
Kotara ya 2



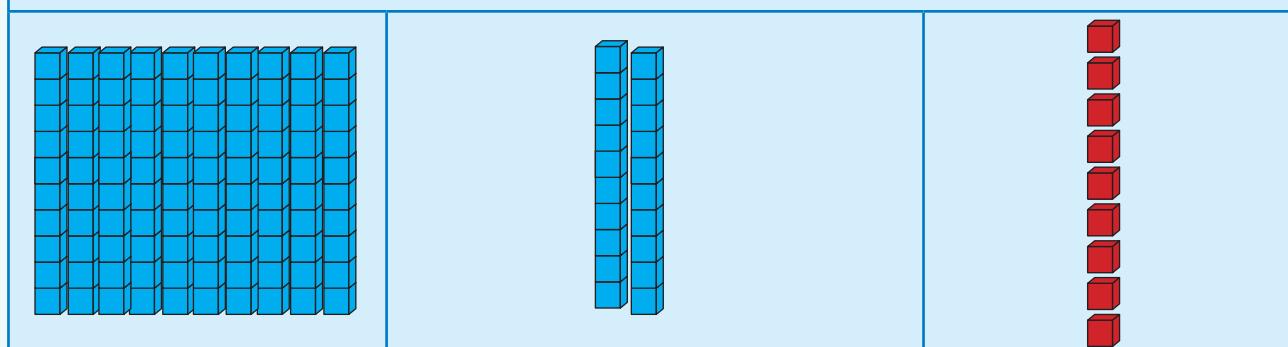
Ku veka vukhume kun'we na
ku byi hambanisa

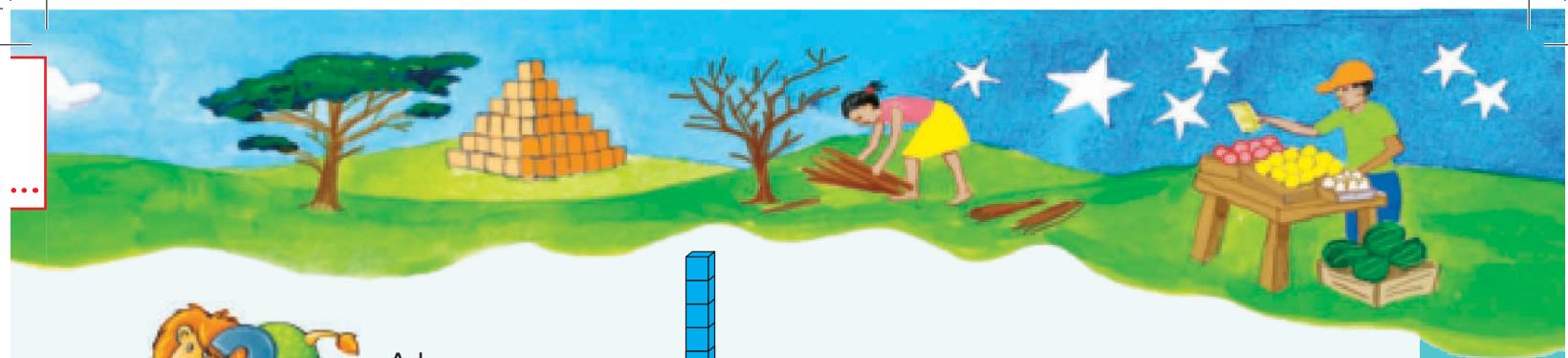
Ku veka vukhume kun'we loko hi hlanganisa

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

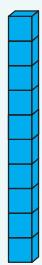


Hi nga veka 10 ya vukhume kun'we ku vumba dzana ri l.





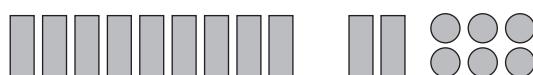
A hi ringete.



= 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 ntlanhanu na vun'we bya ntlanhanu. (Vun'we lebyi susiwaka byi khaliariwe hi muhlovo wa mpunga).

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



A hi ringete.

a. $70 - 28$

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

b. $90 - 46$

c. $80 - 53$



Ku kuma phere ya tinomboro

a.

200	
30	

b.

200	
70	

c.

200	
	105

d.

200	
85	



36

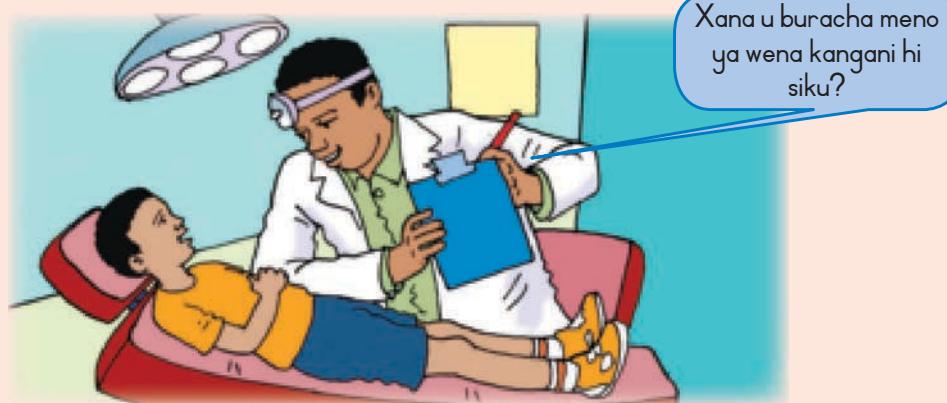
Siku

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.



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

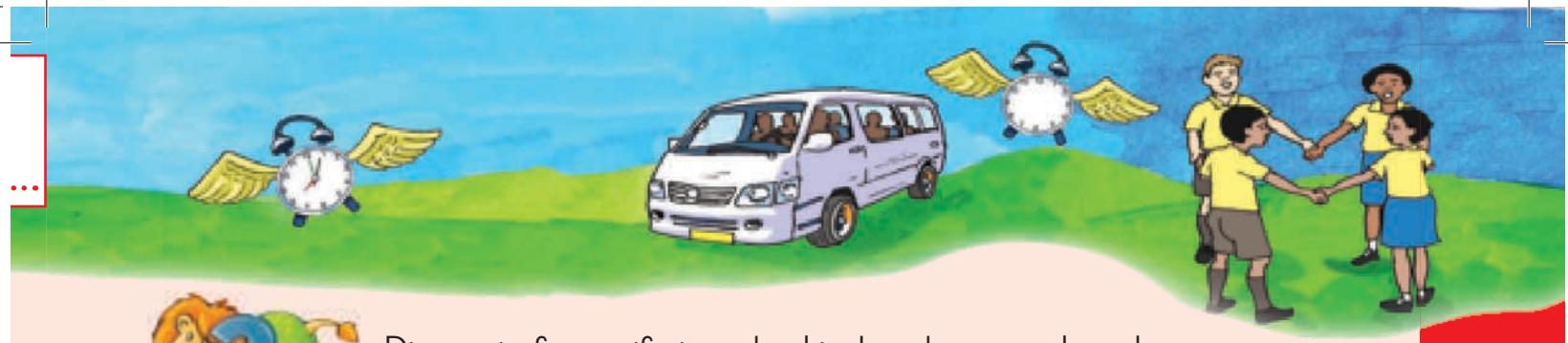
- a. Hlayela mifungho ya (✓) leyi kombisaka leswaku vana va buracha meno ya vona kangani. Tsala tinomboro.

	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.



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

a. Xana va buracha meno kangani hi siku? _____

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



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

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:

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

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

Utiva leswaku: $50 + 70 = 120$.

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

ku endla nomboro ya 3 wa tidjiti.



Utsale hi ndlela leyi:
$$\begin{aligned} 50 + 70 + 6 + 3 \\ = 50 + 70 + q \\ = 120 + q \\ = 100 + 20 + q \\ = 12q \end{aligned}$$

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

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

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

$$= 30 + 4$$

$$= 34$$



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.

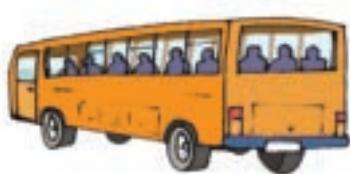
- a. Peter u sungula a kha 34 wa mapencisi kutani endzhaku a kha 67 wa mapencisi.
Xana i mapencisi mangani hinkwawo ka wona?



- b. Vana va ka Malusi va hlayisa R47 swin'we.
Manu 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

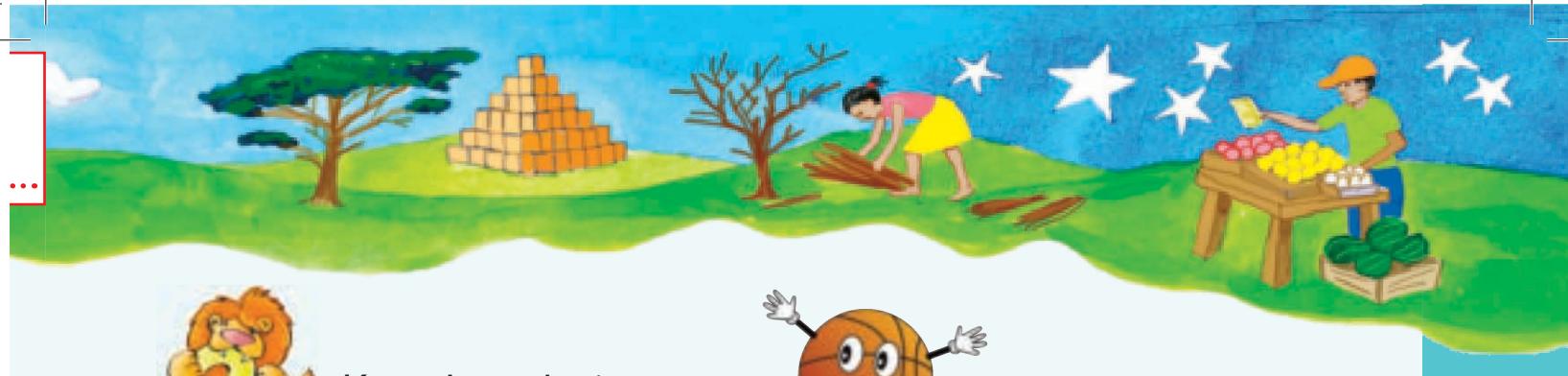


Musa



Musa u xavisa mathikithi. U na 92 ya mathikithi yo sungula hi wona. U na 67 lama saleke.

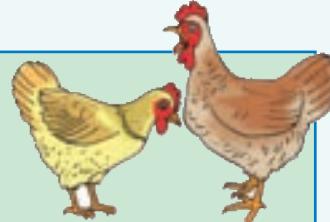
Xana Musa u xavisile mathikithi mangani ku fika sweswi?



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.

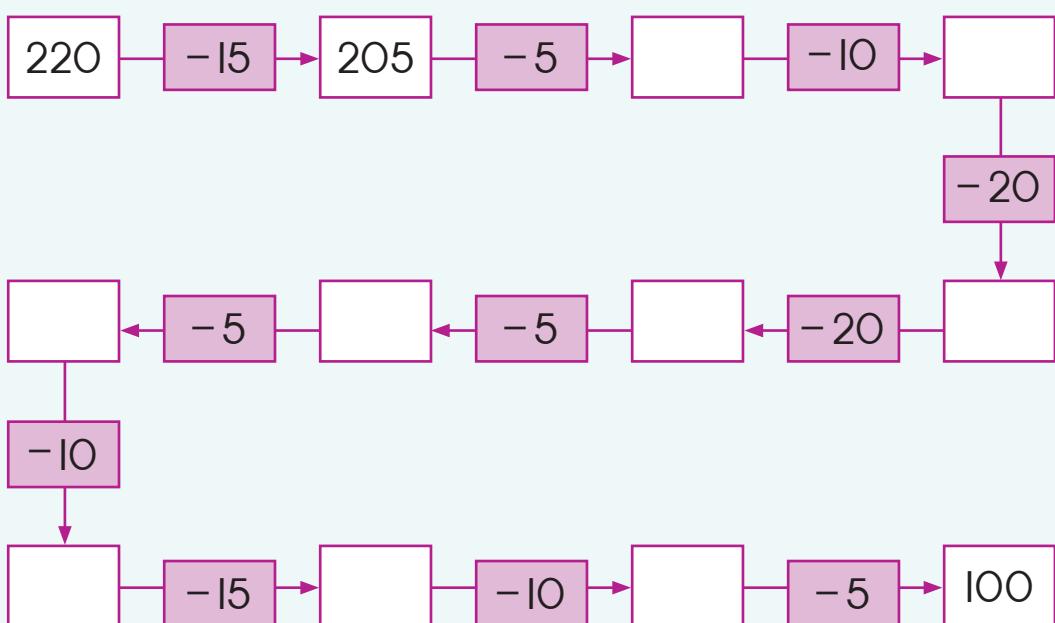
200	
	120



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.

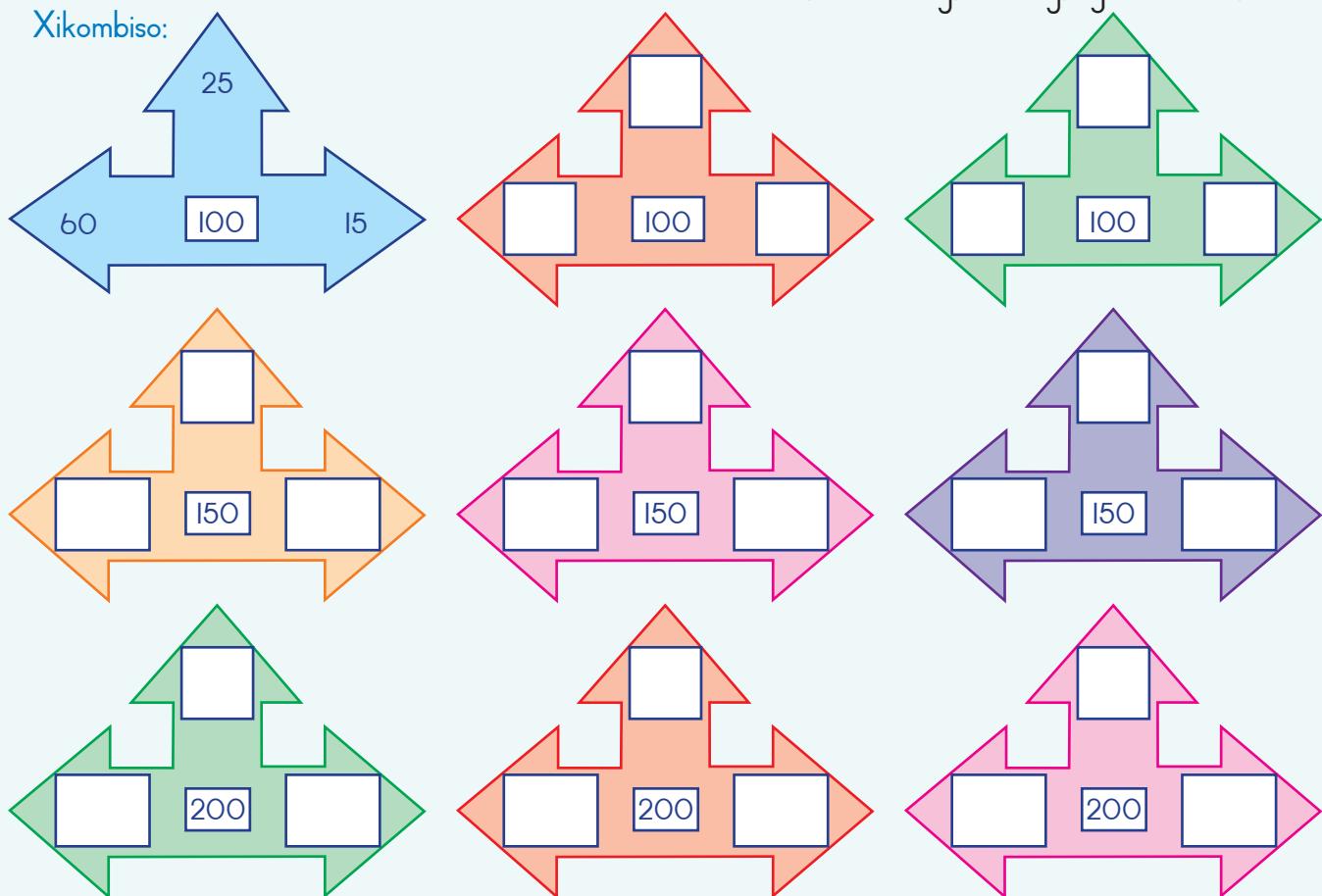
Kambe eka
nkarhi wa sweswi,
hlanganisa
tinomboro!



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.

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



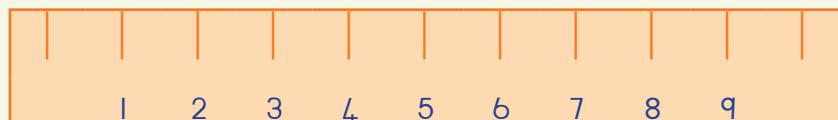
40



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.

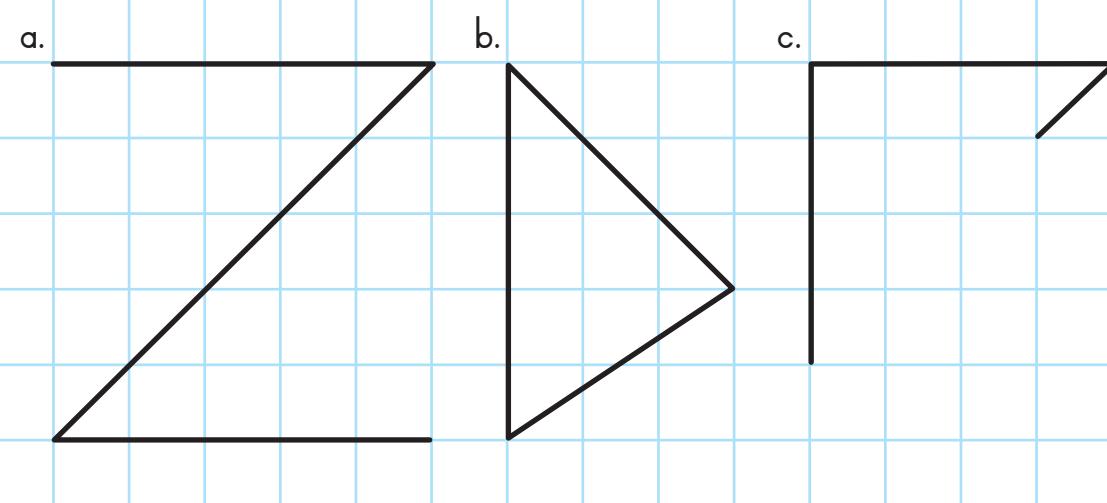
Tirhula tin'wana a ti kombi O ku fana na leyi nga eka pheji leyi.

Kuma ziro cm eka rhula. Tsala O eka rhula.

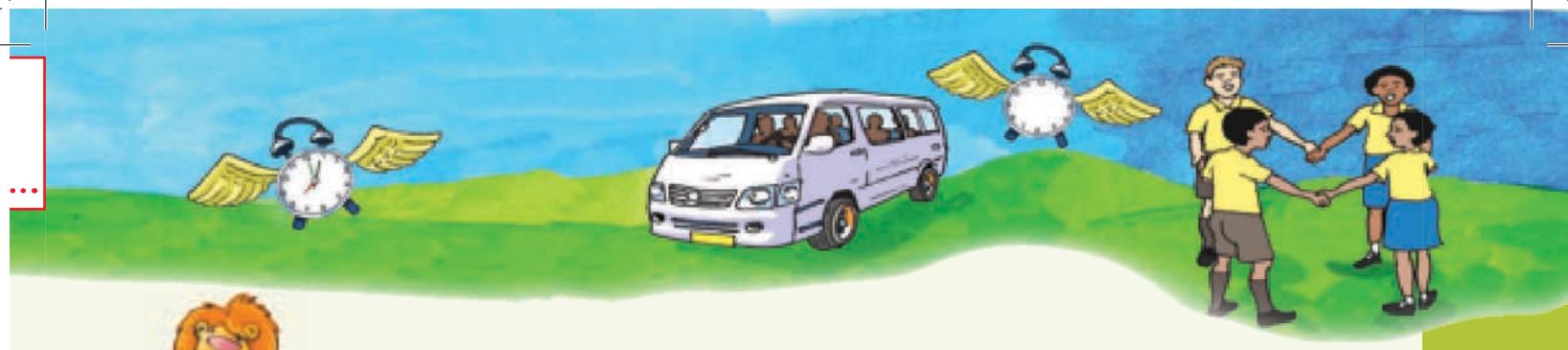
Xana 10 cm yi le kwihi eka rhula leyi? Tsala 10 lahaya.



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.

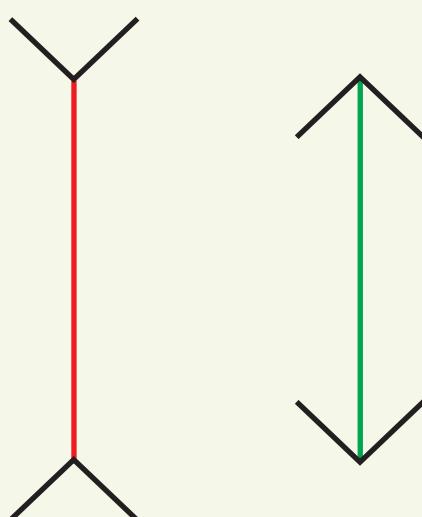
a. —————	<input type="text"/> cm	d.	<input type="text"/> cm
b. —————	<input type="text"/> cm	e. —————	<input type="text"/> cm
c. —————	<input type="text"/> cm	f. —————	<input type="text"/> cm



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



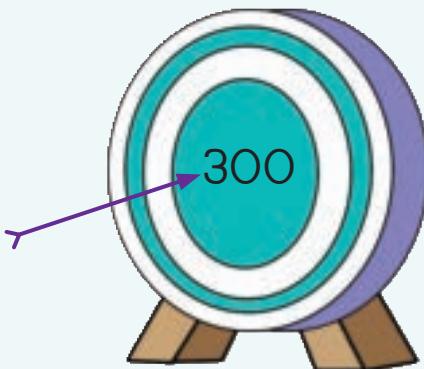
Ku hlayela no tsala vu - 200

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.

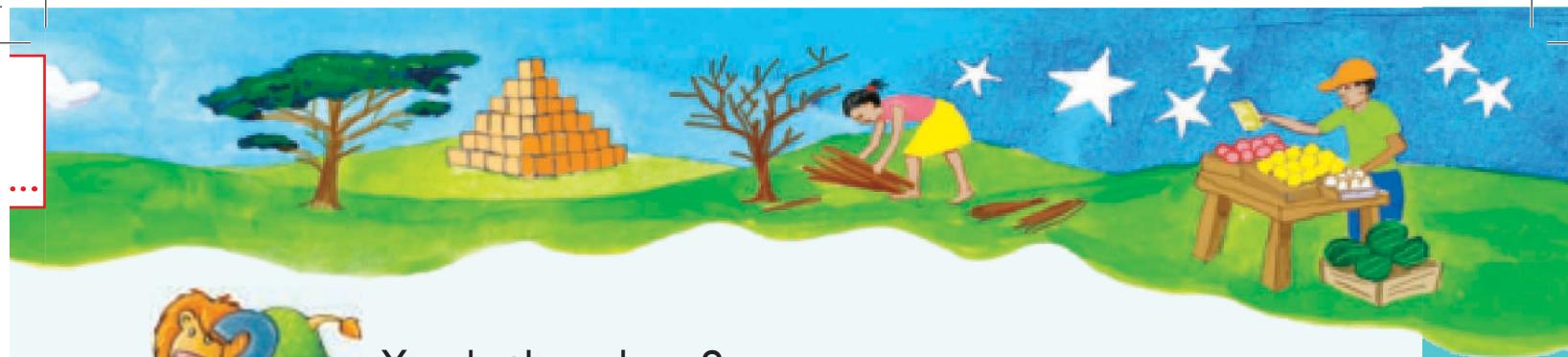
Tsala tinomboro letin'wana hinkwato.



201					207			210
211						215		
221						225		
231			234				238	
	241					249		
		254						257
			265					
				273			280	
281					286			
						298	300	

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



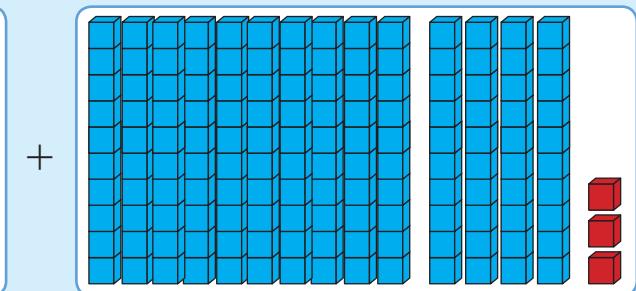
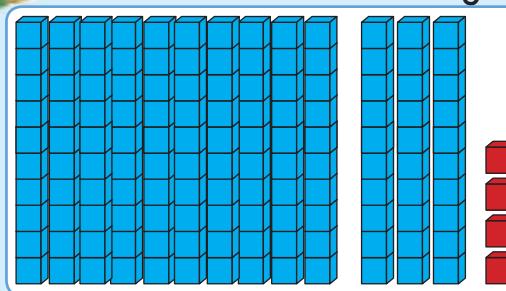
Teacher: Sign:
Date:

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



Ku hlanganisa no susa hi vu -100

Ku tirhisa tibuloko ku hlanganisa



$$\begin{array}{r} 100 \\ + 30 \\ \hline 130 \end{array}$$

+

$$\begin{array}{r} 100 \\ + 40 \\ \hline 140 \end{array}$$

$$\begin{array}{r} = 200 \\ + 70 \\ \hline 270 \end{array}$$

$$= 277$$



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

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



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

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

b. $194 - 122$

c. $288 - 199$



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

qq

43



Siku:

Kotara ya 2

Thagete ya 400

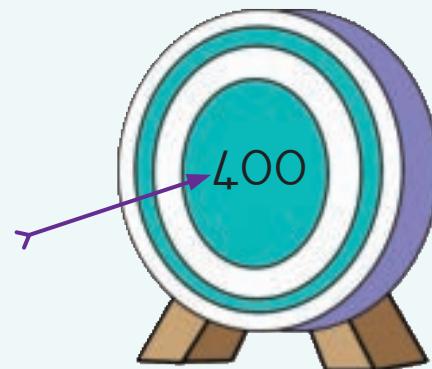


Ku hlayela no tsala vu-400

Hlayela ku suka eka 300 ku fika eka 400.

Vula tinomboro loko u ri karhi u hlayela.

Tsala nomboro leyi siyjeweke eka giridi.



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



Tsala 9 ya tinomboro leti landzelaka endzhaku ka 400.

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

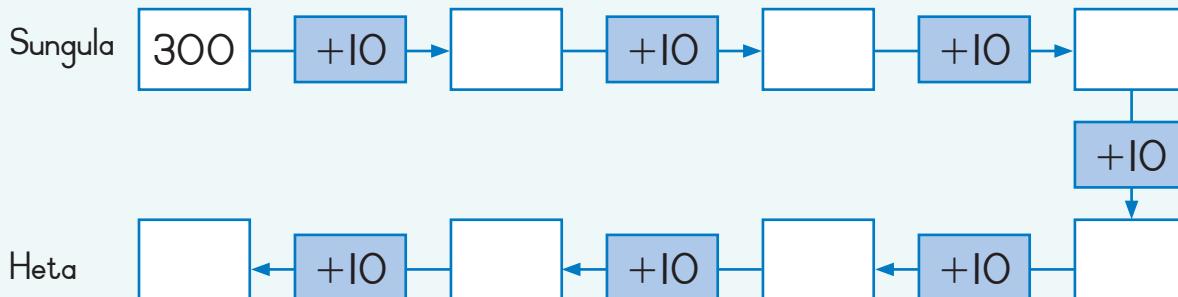
100

1 2 3 4 5 6 7 8 9 10

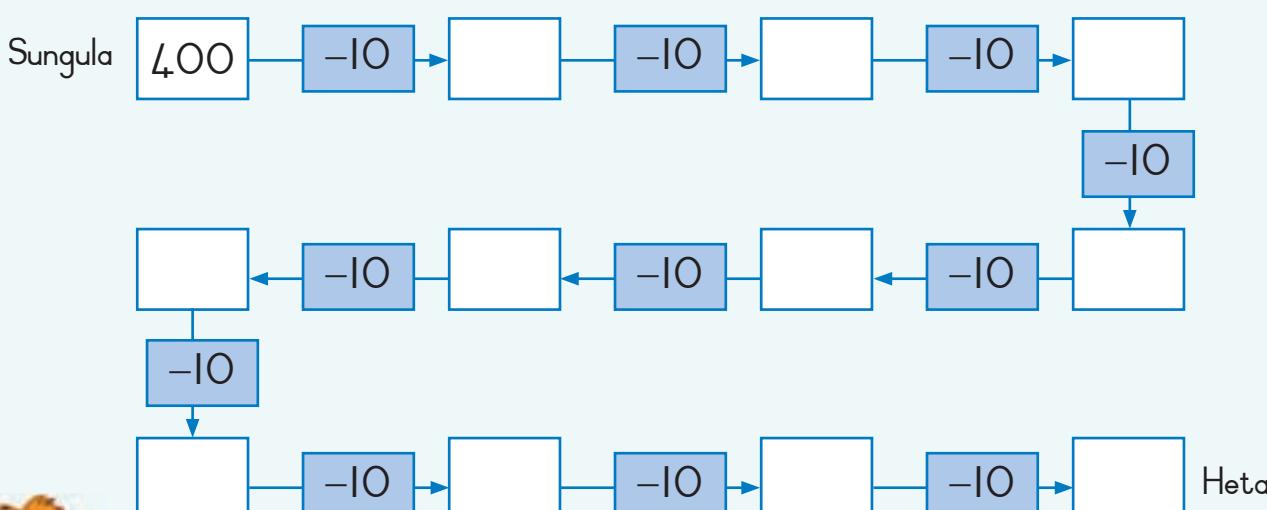


Hlayela emahlweni na hi xindzhaku

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



- b. Hlayela ku suka eka 400 hi vukhume.



Tsala tanihi nomboro yin'we.

$300 + 20 + 4 = \underline{\quad}$

$300 + 10 + 5 = \underline{\quad}$

$300 + 50 + 3 = \underline{\quad}$

$300 + 70 + 7 = \underline{\quad}$

$300 + 60 + 2 = \underline{\quad}$

$300 + 90 + 9 = \underline{\quad}$

$300 + 80 + 1 = \underline{\quad}$

$300 + 40 + 8 = \underline{\quad}$

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

 , , , , , , ,



Teacher: _____
Sign: _____
Date: _____



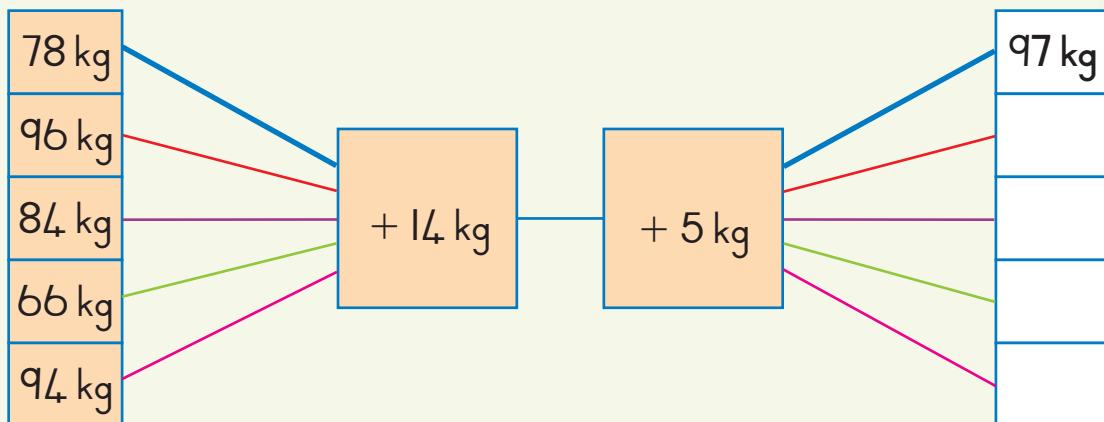
Kotara ya 2



Nomboro yo hlawuleka

Hlanganisa u tlhela u tsala tinhlamulo.

Ku pima



Yisa eka khume ra le kusuhi kutani u hlanganisa!

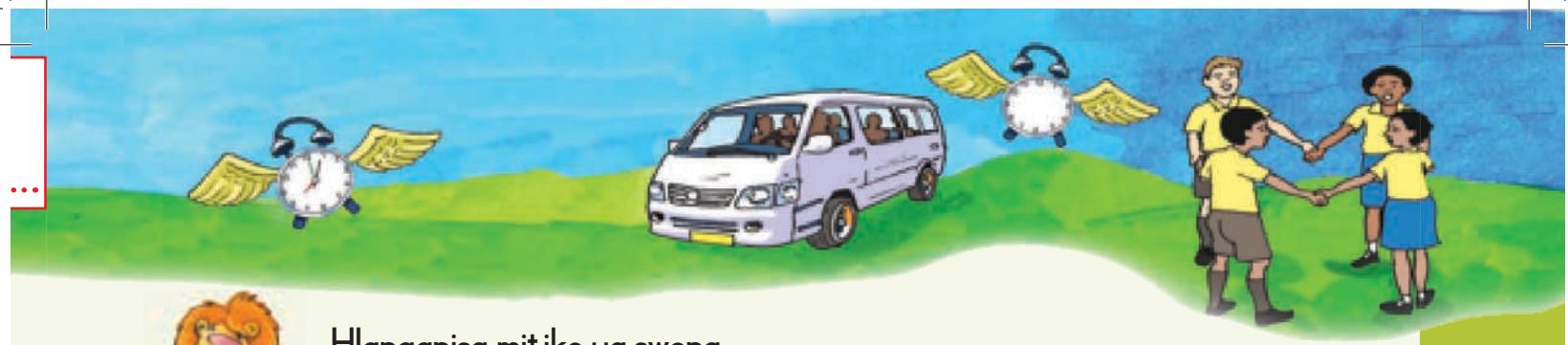
Ehleketa khwatsi!

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:

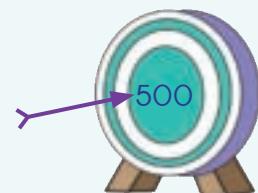
.....

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

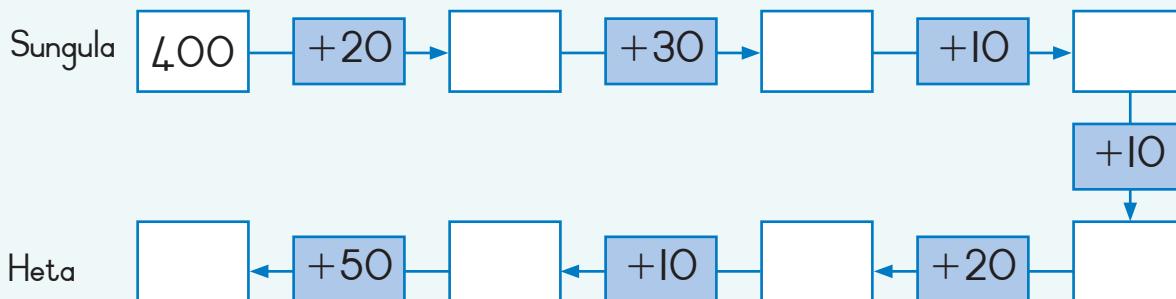
- e. Hlayela hi vu-5. Tsala 8 wa tinomboro leti landzelaka hi **patironi ya vu-5**.

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

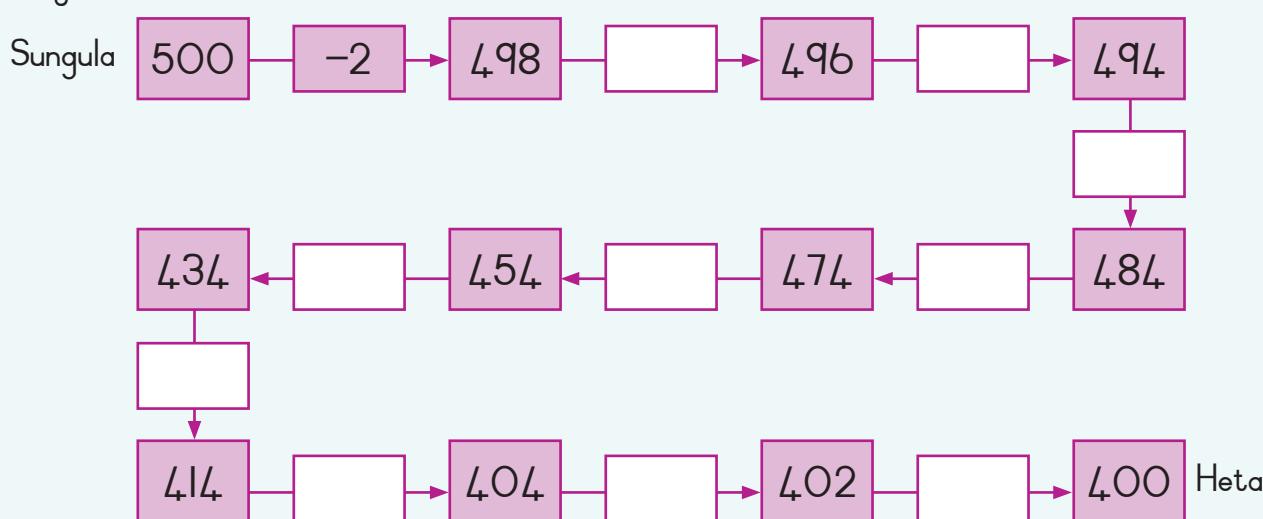


Xana ku cinca hi kwihi?

- 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	$400 + 10 + 5$
$446 + 10$		
$455 + 10$		

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

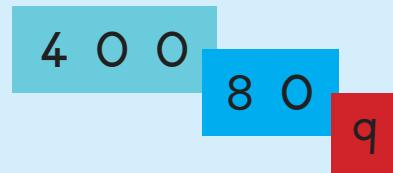
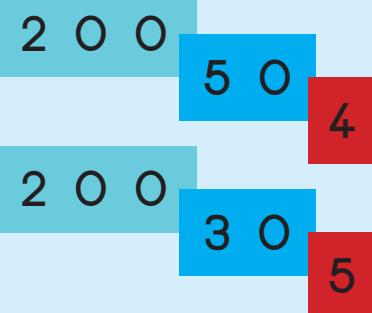


46

Siku:

Kotara ya 2

Ku hlanganisa no susa kun'wana



489



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

a. $245 + 231$

Maendlele ya Busi

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

$$= 400 + 70 + 6$$

$$= 476$$



Maendlele ya Tumi

~~$245 + 231$~~

$$= 400 + 70 + 6$$

$$= 476$$

b. $278 + 136$

c. $265 + 148$



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

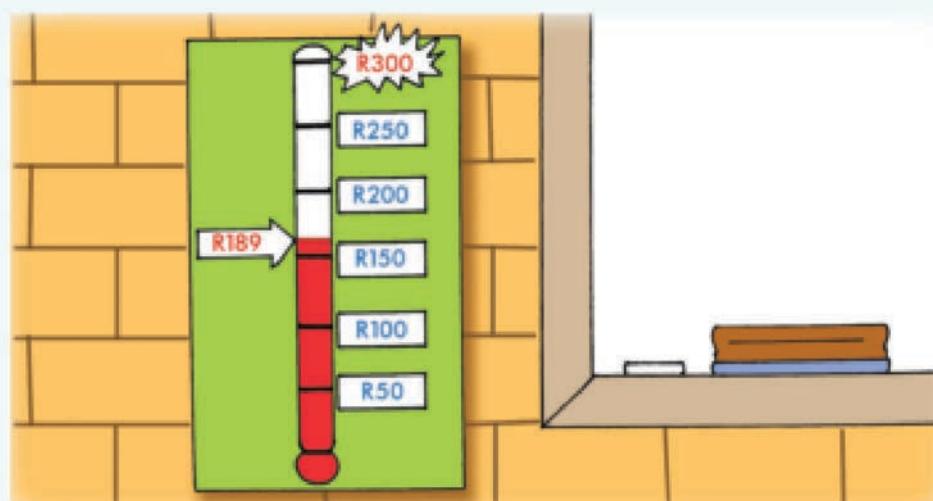
$$\begin{aligned} &\cancel{4} \cancel{7} 6 + \cancel{3} \cancel{2} 4 \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$

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!

● * ⚡ ○ * ⚡ ○ * ⚡ ○ * ⚡ ○
1 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 RI50 hi siku
ra I Mhawuri.

Kombisa matirhele ya wena.

Kambisia. Fananisa. Lulamisa.



Teacher:
Sign:
Date:

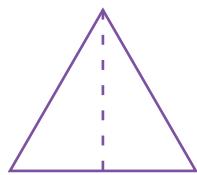
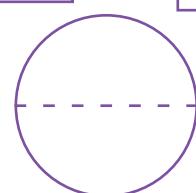
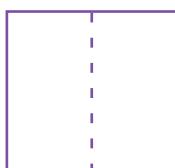
II 12 13 14 15 16 17 18 19 20
||||||||||||||||||||||||||||||||||

48

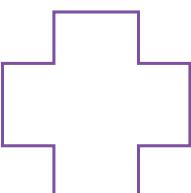
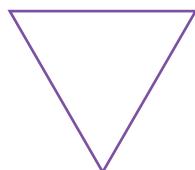
Siku:

Kotara ya 2

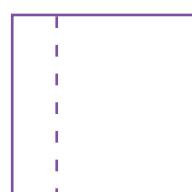
Xana u lemuka yini hi swivumbeko leswi?



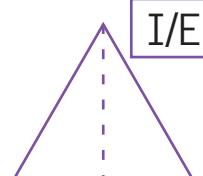
Dirowa ntila wa ndzinganiso eka xivumbeko xin'wana na xin'wana?



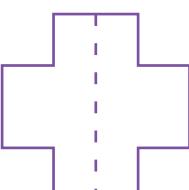
Xana ntila wa mathonsi i ntila wa ndzingano kumbe a hi wona? Tsala xirhendzevutana eka Ina (I) kumbe E - e (E)



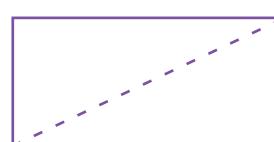
I/E



I/E



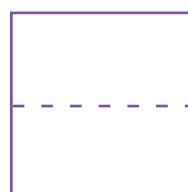
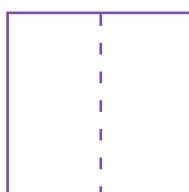
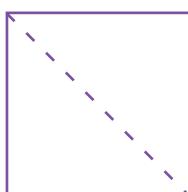
I/E

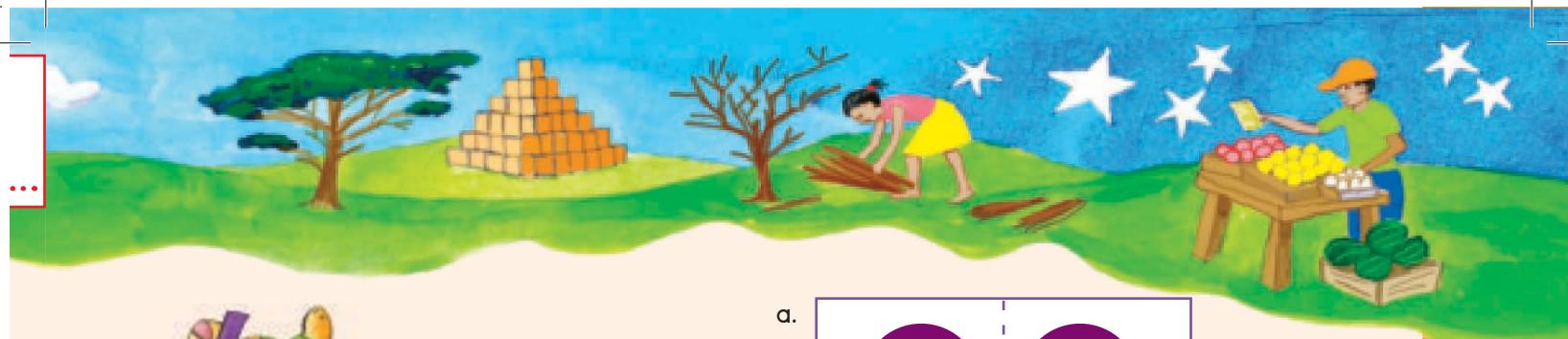


I/E



Xana lowu i ntila wa ndzinganiso? Hikwalaho ka yini?

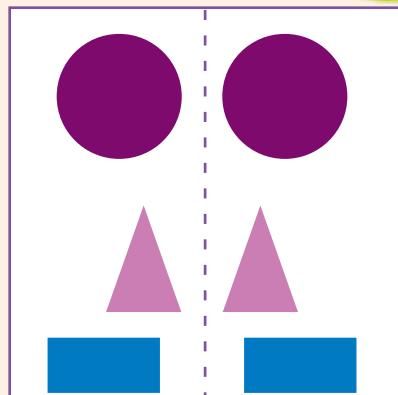




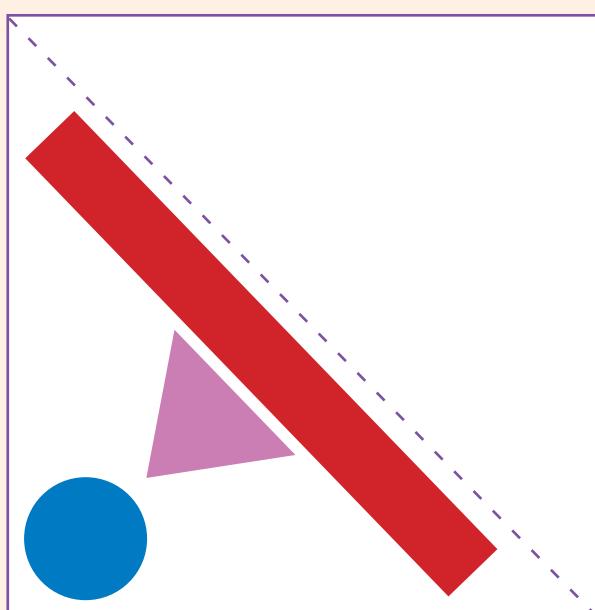
Dirowa swivumbeko ku endla leswaku xifaniso xi
va na ndzingano.

Hi ku endlele xo sungula.

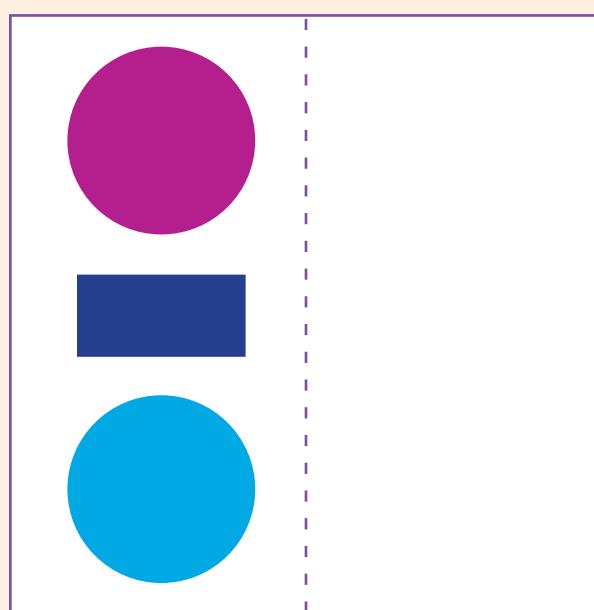
a.



b.



c.



Tumbuluxa
khpete ya wena
ya ndzingano
hi ku tirhisa
swivumbeko.



Teacher:
Sign:
Date:

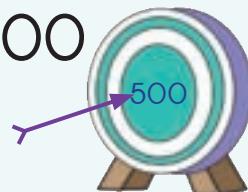
49

Siku:

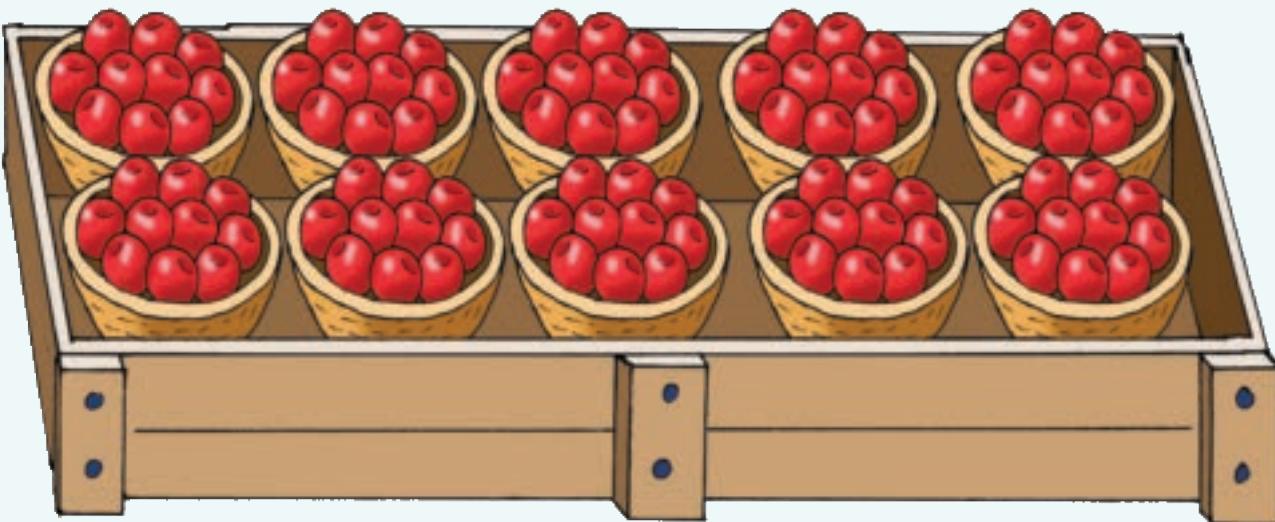
Kotara ya 2



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 tibasikititi ti 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.

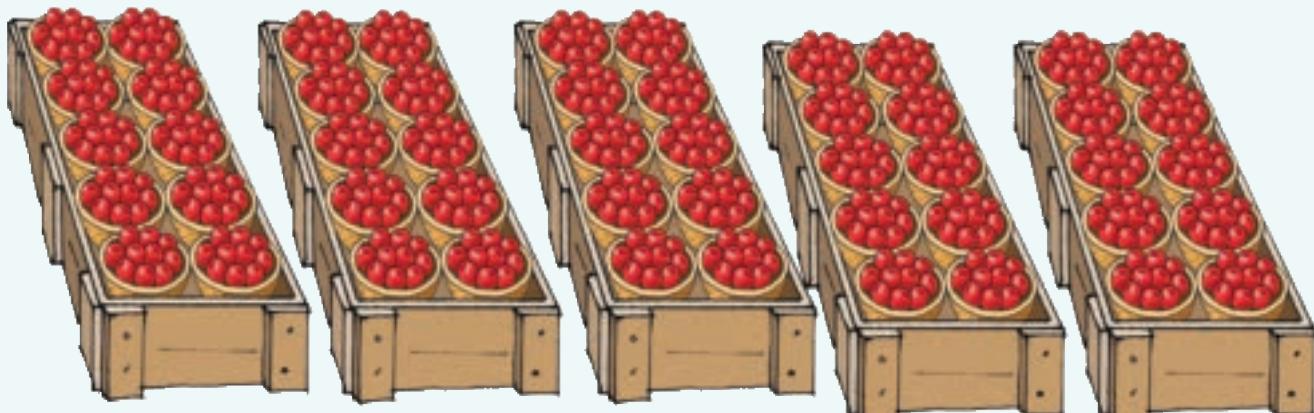


Ku na 10 wa maapula endzeni ka basikit.

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

300

40

5

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

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

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

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

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



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.

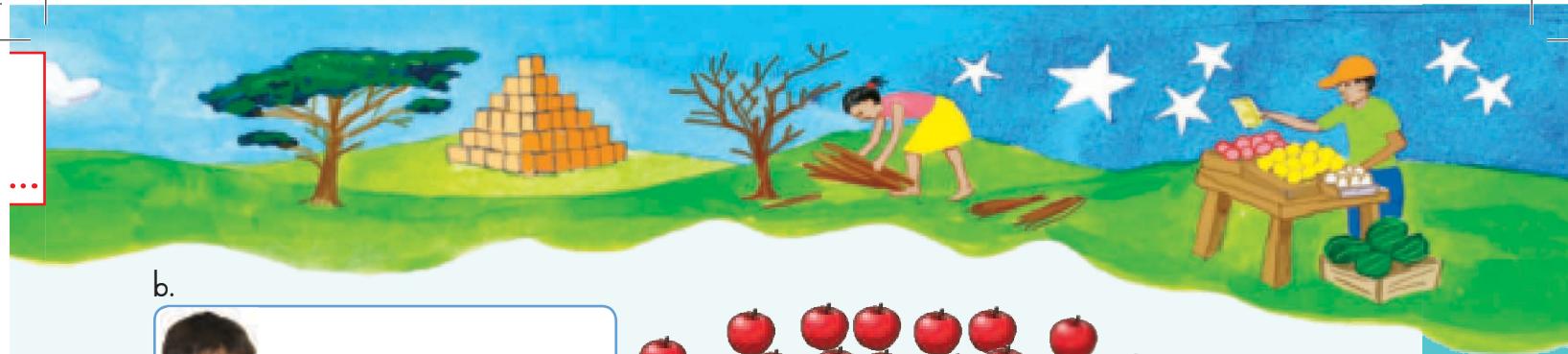


Kambisia
tinhlamulo ta wena

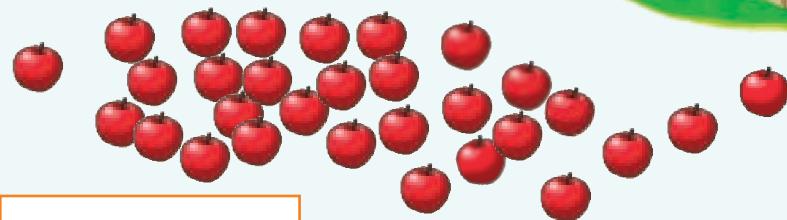
$$\square \div \square = \square$$

$$\square \times \square = \square$$





b.



Tsala nhlayo ya \div



Tsala nhlayo ya
 \times ku kambisia
 tinhlamulo ta wena



Tirhisa tinomboro ku endla swivulwa swa wena swa tinomboro.



Xikombiso

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

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



\div		\times	
--------	--	----------	--



\div		\times	
--------	--	----------	--



\div		\times	
--------	--	----------	--



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

____, 460, ____

____, 390, ____

____, 500, ____



Teacher:

Sign:

Date:

51



Siku:

.....



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 tanihi xivulwa xa tinomboro.
_____ × _____ = _____



Xana i magilavhu mangani?

Tsala ematafuleni.

a.

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

b.

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



Hlayela hi vumbirhi

a. Hi yihi nomboro leyi nghenaka exikarhi?

264, ___, 268	391, ___, 395	414, ___, 410
---------------	---------------	---------------



b. Tsala tinomboro timbirhi leti landzelaka.

373, 375, <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



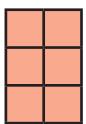
Ku kunguhata xirhapa

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.

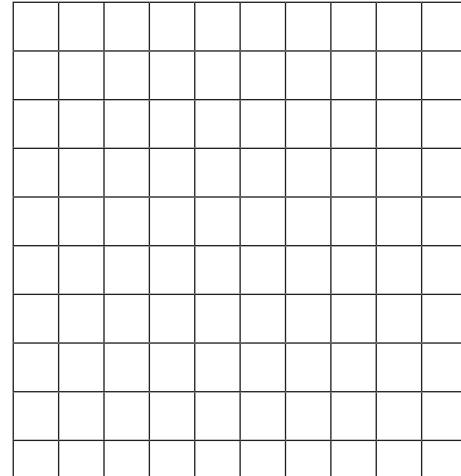
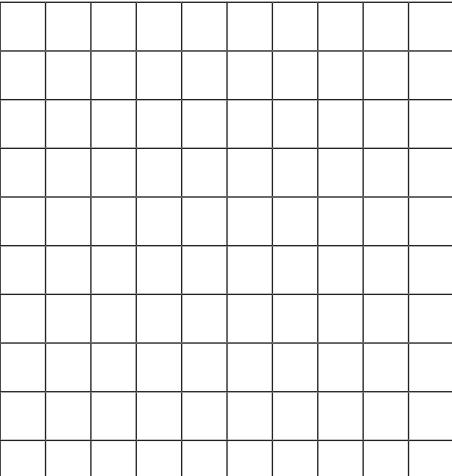


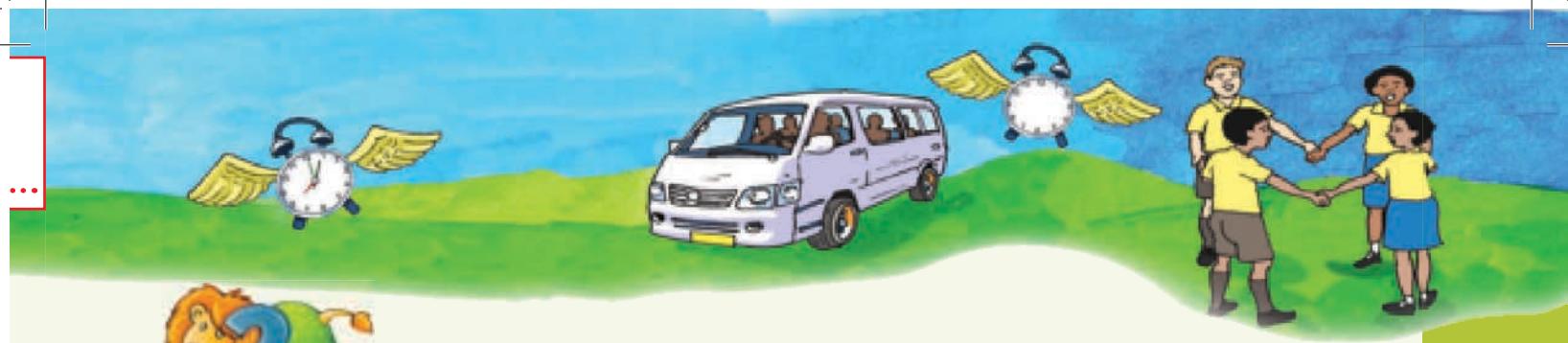
Ndzi endla 1 rixaxa hi 6 wa tithayele.	Ndzi nga endla 2 wa tinxaxa hi 3 wa tithayele eka rixaxa.	Ndzi nga endla 3 wa tinxaxa hi 2 wa tithayele eka rixaxa rin'wana na rin'wana.
 $6 \times 1 = 6$	 $3 \times 2 = 6$	 $2 \times 3 = 6$

Sweswi i nkarhi wa wena!

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

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

8 wa swikwere	9 wa swikwere
	



Veketela 12 wa tithayele

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

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



Veketela 24 wa tithayele

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

--



Ndzi nga andzisa!

$12 = 2 \times$ <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? _____

$$2 \times R5 = R$$

$$4 \times R5 = R$$

Xana wa yi vona patironi?

$$3 \times R5 = R$$

$$6 \times R5 = R$$



Ku andzisa hi vu-5

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

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



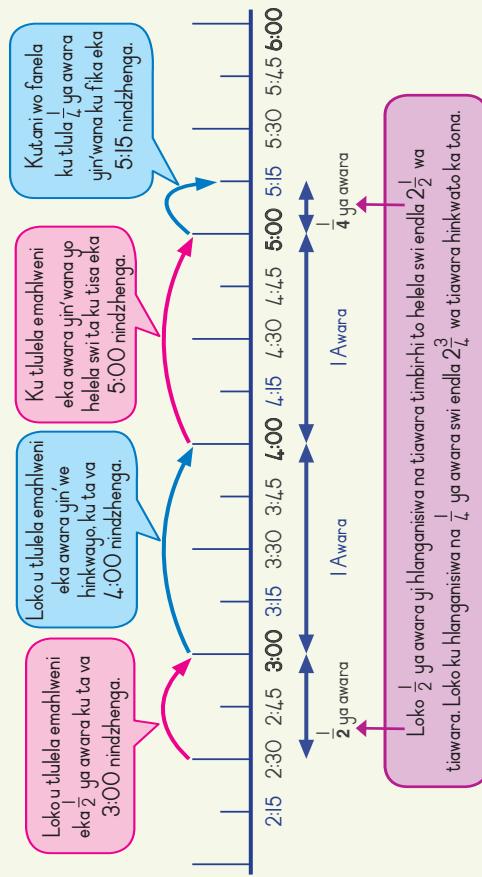
Dirowa minkarchi

Hafukubile awara ya 5	Kotaraku ya eka awara ya khumen'we	12:45	6:15
	Kotarakubile awara ya 12	4:30	

Xiphiqo xa nkarchi

Manaw Nomsa u suka ekaya hi 2:30 nindzhenga.
U vuya hi 5:15 nindzhenga. Xana u va a humile
nkarchi wo tanihikwih?

Hi ng a tirhisaxaxamelo wa mikarchi
kuswi tirha. Vekela rintaho ra wena eka
2:30, nkarchi lowu ku ngawana sweswi.



Kambuisa. Ringanisa. Lulamisa.

Lulamisa xiphiqo xin'wana na xin'wana. Tirhisaxaxamelo ya minkarchi ku pfunia.



- a. Sasavona u endzela tata wakwe etilimki hi **15:45** nindzhenga.

Usuka hi **17:15** nindzhenga.

Xana u va a endzile nkarchi wo tanihikwih?



- b. Musau ya ephakeni hi **10:45** nimixo.

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

Xana u va a fambole nkarchi wo tanihikwih?

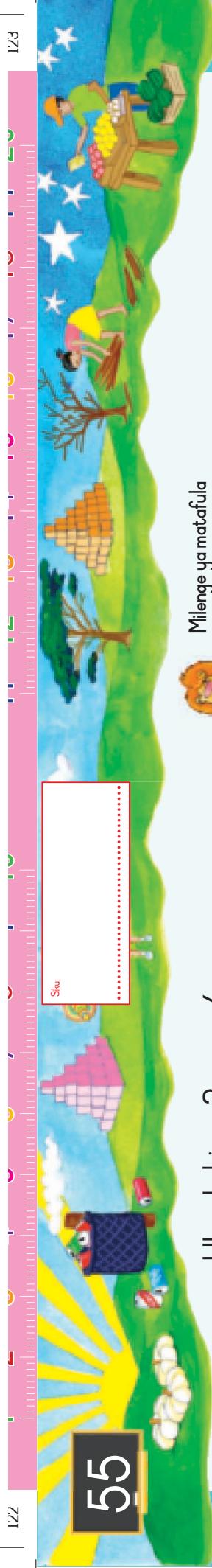


- c. Tumi u sungulaku hlaya hi **13:15** nindzhenga.

Uheta hi **14:45** nindzhenga.

Xana Tumi u hlaya nkarchi wo tanihikwih?

| 2 3 4 5 6 7 8 9 10



55

Kotara ya 2

Hlayela hi vu-3 na vu-4

Mapoto ya 3 wa milenge



Hanganisa kutani u tsalanhamulo

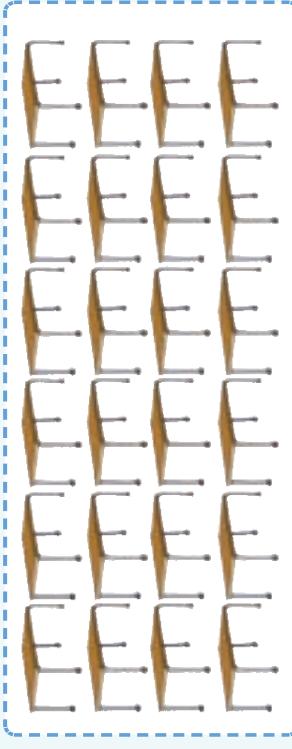
- Xana kuna mapoto mangani erixaxeni? _____
- Xana kuna milenge yingani erixaxeni? _____
- Xana kuna tinxaxa tingani ta mapoto? _____
- Xana kuna milenge yingani hinkwao ka yona? Kombissa leswi u swi tirhiseke xiswona.

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

Xana kuna milenge yingani?
Ehleketa hi xihatla
Ehleketa khwatsi.

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

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

Hetsa giridi hi ku tata tinhlamulo

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



Muvatli u endla matafula. U sunqula hiku endla milenge.
U endlike 48 ku fikela sweswi. Xana a nga kota ku endla matafula mangani?
Xana ku laveka milenge yin'wanaya yingani leswaku atai kota ku endla tafula rin'wana?

Teacher: Sign: _____	Date: _____
_____	_____

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 exifanisweni va amukela nkumba.

Xana ku na vana vangani? _____

Pimanjisa	Hlayela	Hlayela	Fananisa

Xana ku na vafana vangani? _____ Xana ku na vanhwanyana vangani? _____

Xana va hakela mali muni?

Nyikela sweswi!

R50 ya nkumba
wu 1



Gwazi



u xava 2 ya



Uhakela



Manana Chauke
u xava 5 ya



Uhakela



Mavhengelé ya Thembi
ya xava 20 ya



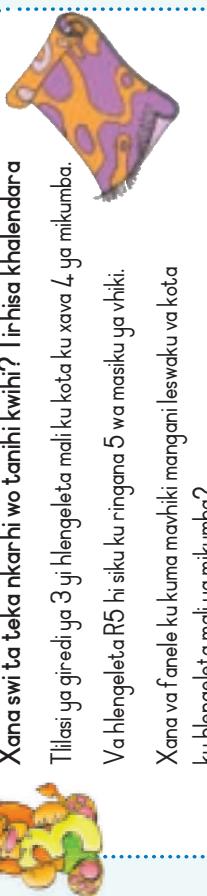
Vahakela

5	ya R50 = R250	10	ya R50 = R500
4	ya R50 = R _____	15	ya R50 = R _____
3	ya R50 = R _____	6	ya R50 = R _____
7	ya R50 = R _____	12	ya R50 = R _____
8	ya R50 = R _____	q	ya R50 = R _____

Xana swi ta teka nkari wo tanhi kwih? Tiri hisa 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?



Teacher:
Sgn:

Date:

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

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

Swiphemu: Tihafu na tikotara

Avanyjsa tibolo hiku ringana exikarhika mabokisi.



Kotara ja 2

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

Langua swifanso kutani u hamula swutiso.



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

Teacher:
Sign: _____
Date: _____

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

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

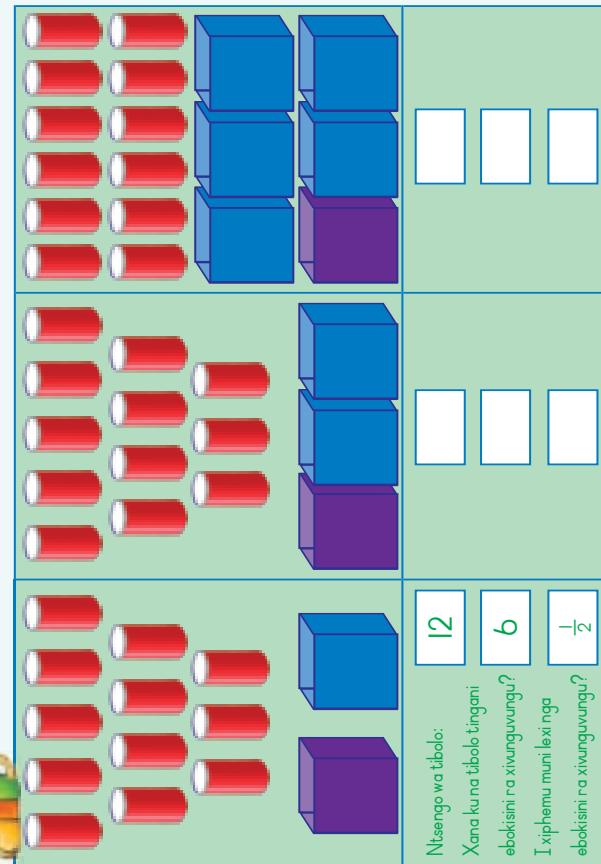
Xana itikorata ($\frac{1}{2}$) tingani leti vumbaka hafu yin'we?

b. Languta tiiduyjigamu kutani u tsala xiphemu xa xiyenge lexi dzwhatiweke

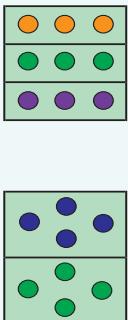
c. Hi xihri xiphemu lexi nga lexikulu, $\frac{1}{2}$ kumbe $\frac{1}{2}$?

Swiphemu: Tihafu, xa-nharhu na xa-ntsevu

Avonyjsa swithinana (tisilindara) hi ku ningana exikarhi ka mabokisi.

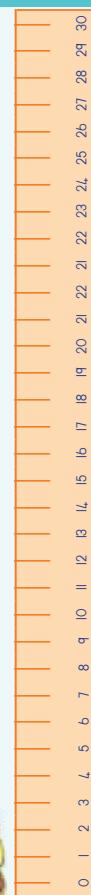
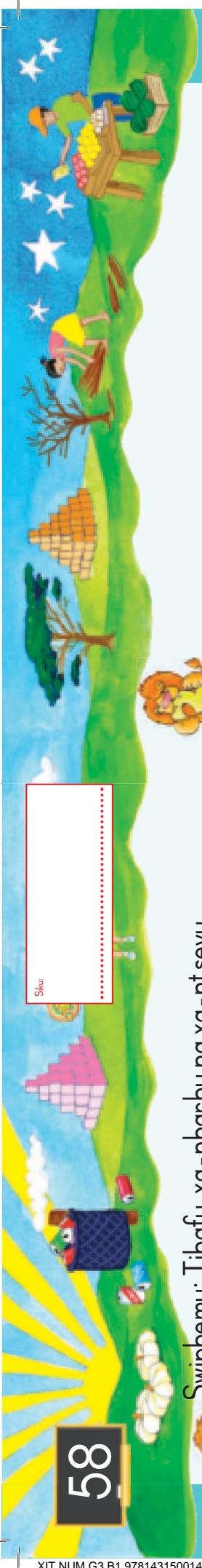


Languta swifaniso kutani u hlamlula swivutiso.



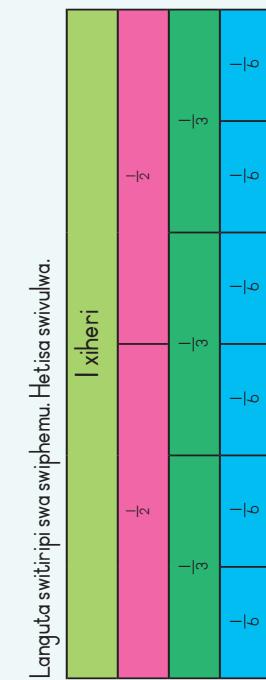
Xana u hlayele
swirhendzevutana swingani?

- Xana $\frac{1}{3}$ ya swirhendzevutana i jyni? Xana $\frac{1}{6}$ ya swirhendzevutana i jyni?
 Xana $\frac{2}{3}$ ya swirhendzevutana i jyni? Xana $\frac{2}{6}$ ya swirhendzevutana i jyni?
 Xana $\frac{3}{3}$ ya swirhendzevutana i jyni? Xana $\frac{3}{6}$ ya swirhendzevutana i jyni?
 Xana $\frac{4}{3}$ ya swirhendzevutana i jyni? Xana $\frac{4}{6}$ ya swirhendzevutana i jyni?
 Xana $\frac{5}{3}$ ya swirhendzevutana i jyni? Xana $\frac{5}{6}$ ya swirhendzevutana i jyni?



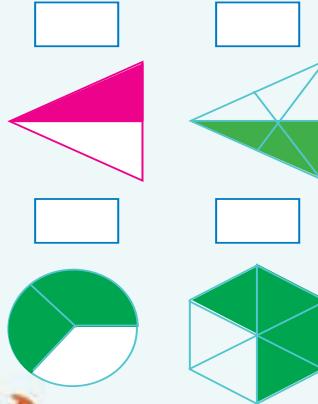
- Kombisa hafu jin'we erhuleni. Leswi swi ringana na ____ cm.
- Kombisa n'we-xa-nharhu erhuleni. Leswi swi ringana na ____ cm.
- Kombisa n'we-xa-ntsevu erhuleni. Leswi swi ringana na ____ cm.

Languta switiripi swa swiphemu. Hetisa sivulwa.



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

Tsala xiphemu xa xiyengje lexi dzwihatweke.

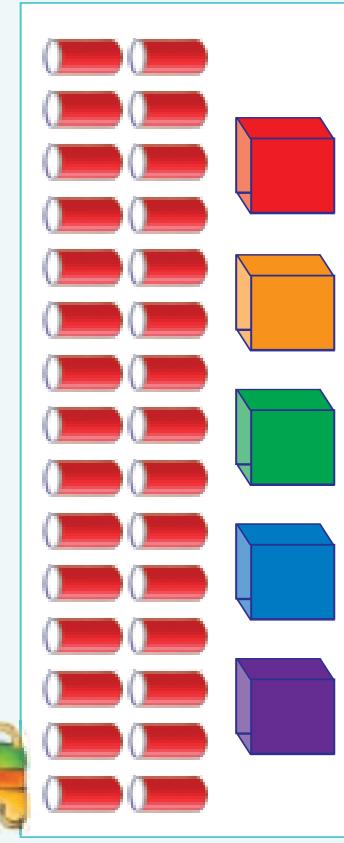


Bana xinhendzevutana eka
xiphemu lexikulu.

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

Swiphemu: xa-ntlhānu

Avanjisa swithinana eka 5 wa mabokisi.



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

Languta swifaniso kutani u hlamula 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

- Hisiku ra lndzi dyle $\frac{1}{5}$ ya tichokoleti. Xana ku sale tichokoleti tingani?
- Hisiku ra 2 ndzi dyle $\frac{1}{5}$ ya tichokoleti. Xana ku sale tichokoleti tingani?

5q

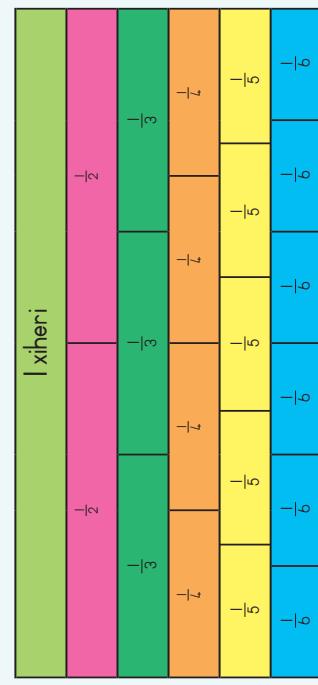
Kotara ja 2

Khalara switriswa swo pima.

a.



Languta switrispi swa swiphemu kutani u hlamula swivutiso.



Bana xirhendzevutana eka lejkulu kumbe lejintsongo

- a. $\frac{1}{2}$ i yikulu/yintsongo eka $\frac{1}{4}$.
- b. $\frac{1}{3}$ i yikulu/yintsongo eka $\frac{1}{2}$.
- c. $\frac{1}{5}$ i yikulu/yintsongo eka $\frac{1}{6}$.
- d. $\frac{1}{6}$ i yikulu/yintsongo eka $\frac{2}{3}$.
- e. $\frac{3}{6}$ 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

133





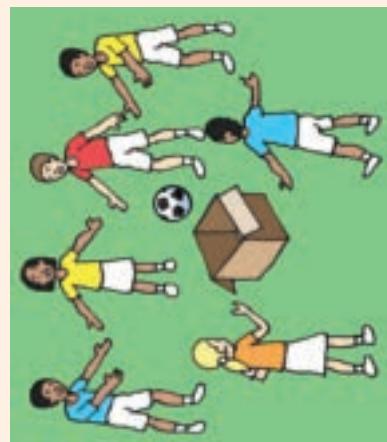
60

Kotara ja 2

Hlayela mabokisi
(tiphinzimu).

Hlayela tibolo
(swinhendzevutana)

Hlayela tisilindara.



Swilo swa 3-D

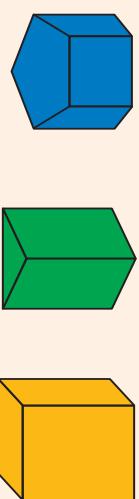
Hlayela mabokisi

Hlayela tibolo

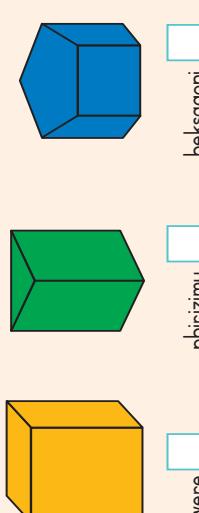
Hlayela tisilindara.

Lama i mabokisi hinkwawo.

Tirhis a maphephetha ya switssemiwa swa 3 na 4 ku swi endla.



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



xikvere phirizimu heksagoni

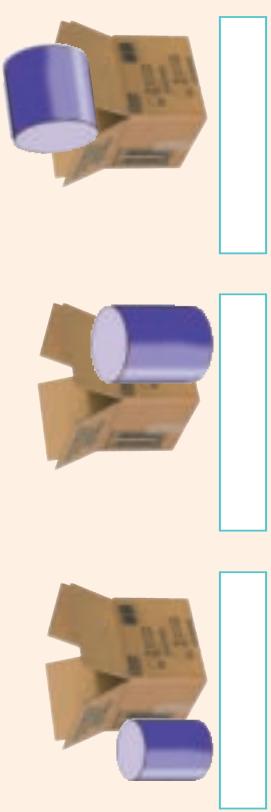
Xana tinghole ta phirizimu i to ringanelu kumbé i ta njihikwa?
Sweswi endla silindara hi phepha ra xitssemiwa xa 4.
Xana tinghole ta silindara i to ringanelu kumbé i ta njihikwa?



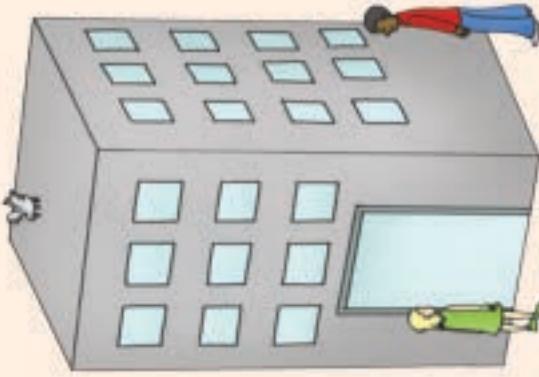
Tirhis a swilo swa wena ku vumba leswi landzeldka.

Hlamusela xijimo xa silindara utirhisa marito ya.

ethebo emahlweni



Tirhis a marito lama nga laha hansi ku hetisa swivilwa.



Nhwanyana u languta _____ ya mudko.

Wanuna u languta _____ na mudko.

Xinyenjana xi languta _____ ka mudko.

tihelo emahlweni

ehenla



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

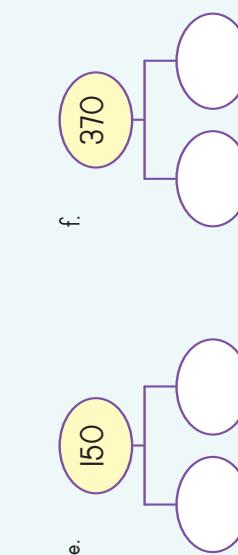
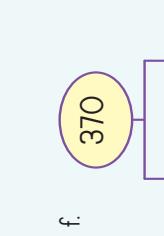
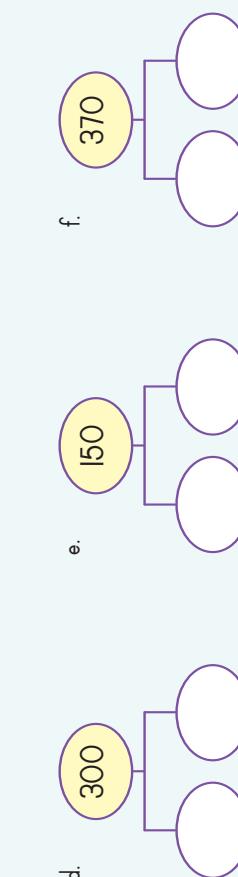
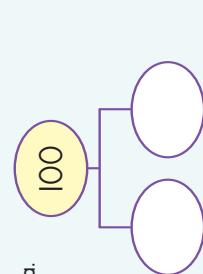
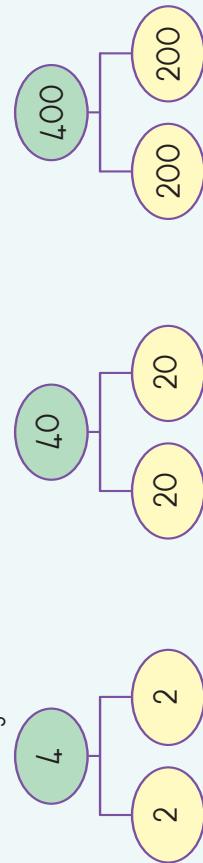
61

Kotara ja 2

Ku andzisa kambirhi na hafu

Xanawa ha
tsundzuka? 2 i hafuya 4
20 i hafuya ya 40
200 i hafuya 400
4 i 2 yi andzisiwe kambirhi
40 i 20 yi andzisiwe kambirhi
400 i 200 yi andzisiwe kambirhi

Tsundzukal! Hi ngakombisa leswi hi xifaniso



Andzisa nomboro kambirhi uti rhisandzhati wa
mitsengo. U nyikiwe xikombiso xo sunqia.

$$\boxed{40} + \boxed{40} = \boxed{80}$$

$$\boxed{60} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{50} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{200} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{150} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{100} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{50} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{200} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{100} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{50} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{200} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{150} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{300} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{180} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{170} + \boxed{\quad} = \boxed{\quad}$$

11 12 13 14 15 16 17 18 19 20

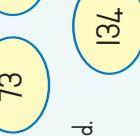


b2

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 hlausira R25 hi vhiki kulkota ku xava
bayisksiri. Xana u fanele ku hlausira mali eka mavhiki
mangan'i?
Nhlamu:

 wa mavhiki

Mbhukuto R450

Nxavo wo hungutia
hi hafu: A wu
ri R9OO



Swixavisiwa hinkwaso swi le ka mbhukuto wa hafu ya nxavo.
Tsalanxavo wa mbhukuto ethheld ka xixavisiva xin'wana na xin'wana.

Ku va eka mbhukuto

- a.  Malakani R154.
Nxavo wa mbhukuto _____
- b.  Switulu R220.
Nxavo wa mbhukuto _____
- c.  Xikhigelo R54.
Nxavo wa mbhukuto _____

Xana i tirhandi tingani?

Musau lava hembe. O vanai hafu yantsengo ntseña.



Ri35 Xana wa ha fanele ku lava mali muni? R _____



R7850 Xana tintanghu ta Peter ti durha kambirhi ku ri na leti.

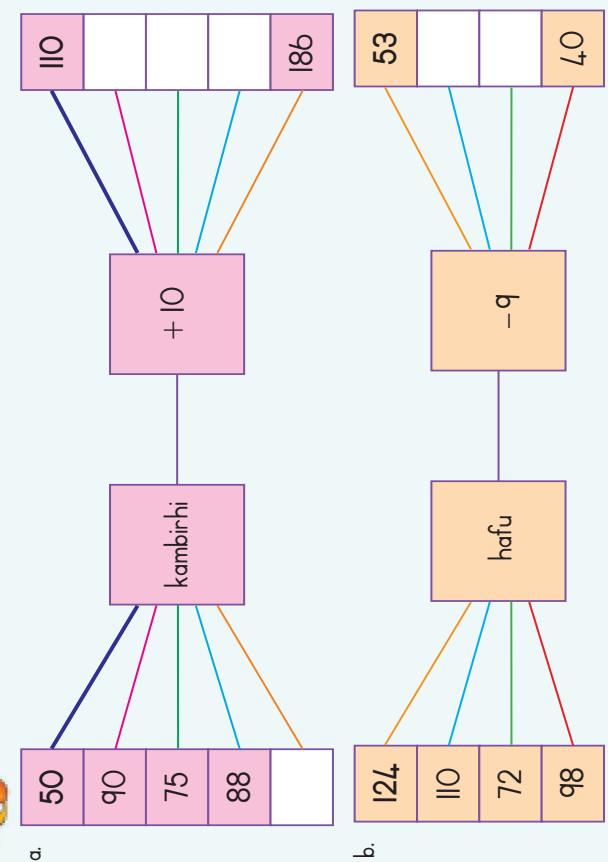


R97 Rhoko ya Phindi yi kambirhi eka nxavo wa ley. Xana rharhoko ya Phindi yi durha mali muni? R _____



Xana i yini xi ng'henga? Xana i yini xi humdaka?

Lanzalela xikombiso. Tata tinomboro leti sijweke.



- a. 50 90 75 88
- b. 124 110 72 98

1 | 2 3 4 5 6 7 8 q 10

11 12 13 14 15 16 17 18 19 20

138

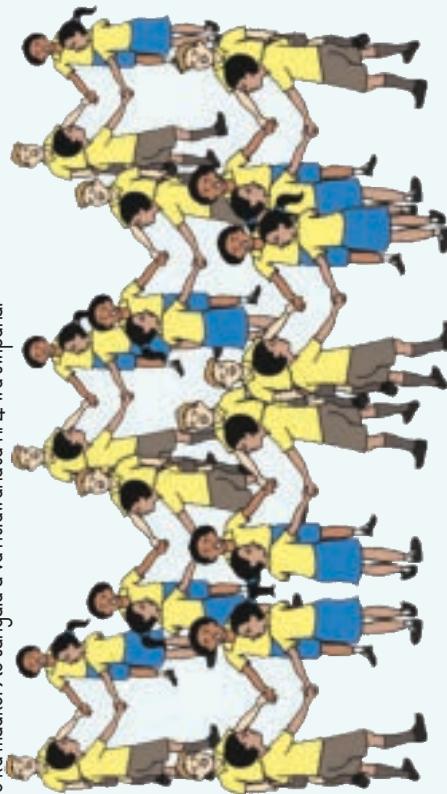
139



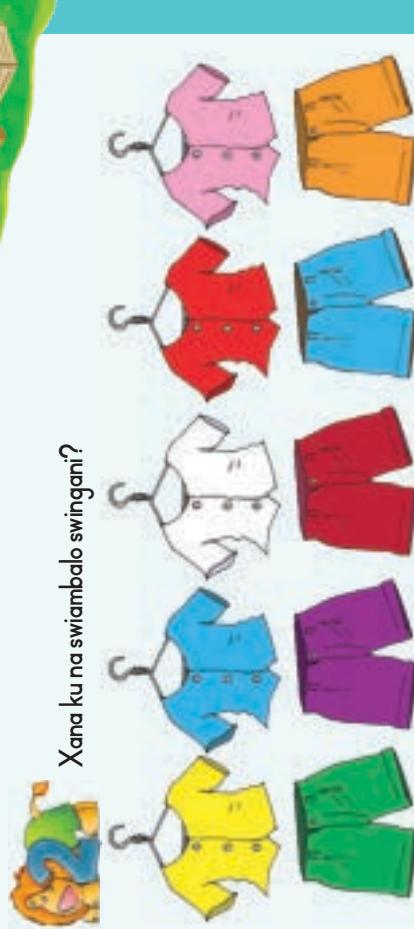
Endla mitlawa u tlhelau katsa

Ku wumbantlawa wa vana

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



Kotara ja 2



Xana ku na swiambalo swingani?

Phindlu na 5 wa tihembe ta mihlovohlovo na 5 wa swiburukwana swa mihlovohlovo.

Xana i swiambalo swingani swo hambarala lesvia nga swi endlaka hiku tishisa mihlonganelo yo hambara 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 endlivaka.

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

Kambisisa. Ringanisa.
Lulamisa.

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

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

Xana i swiambalo swingani leswi a nga swi endlaka?

Kambisisa. Ringanisa.
Lulamisa.



64

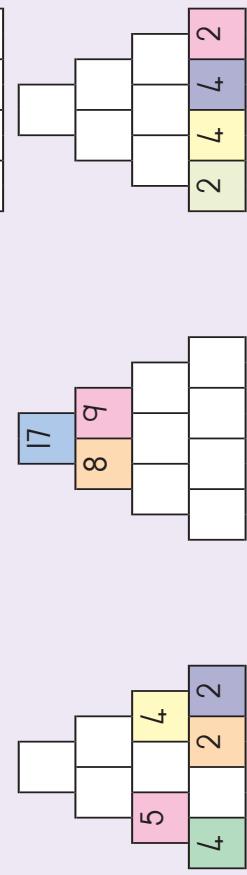
Ku tiphina hi metse



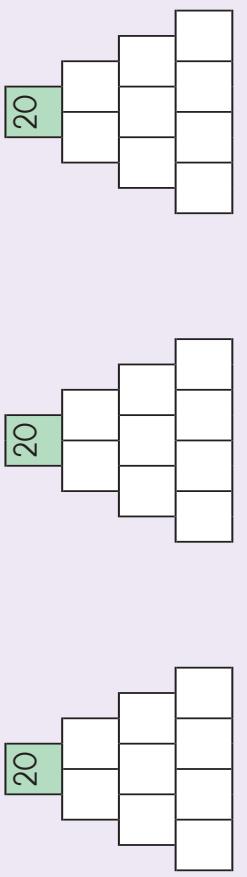
Kotara ja 2
Lava nau

Tirhisu nauku ku kuma tinomboro leti sijweke.

Sweswi endla leswi



Akaku fikaeka 20 hi 3 wa tindllela to hambara



Nthontloho
Ehleketa!



Tirhisu 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].

Nauu: Tirhisu nomboro yin'wana na yin'wana kan'we ntsema.

Ku kuma tinomboro



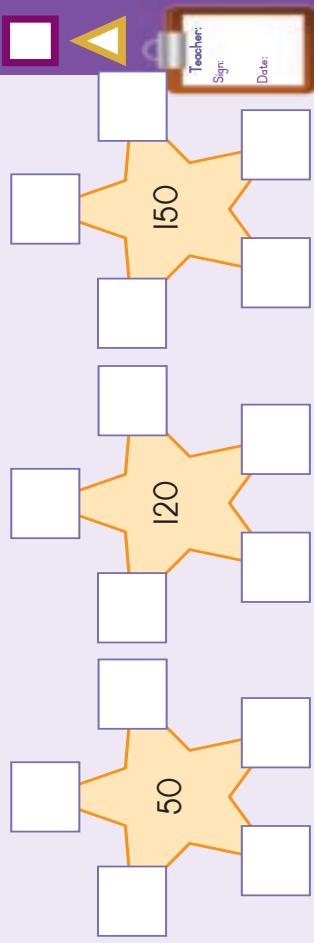
a. Nauu: Tinomboro eka rixaxa rin'wana na rin'wana ti fanele ku hlangana ti va 16.

2	5	3	6

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

2	7	6
q		1
	3	8

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



Shuk.

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

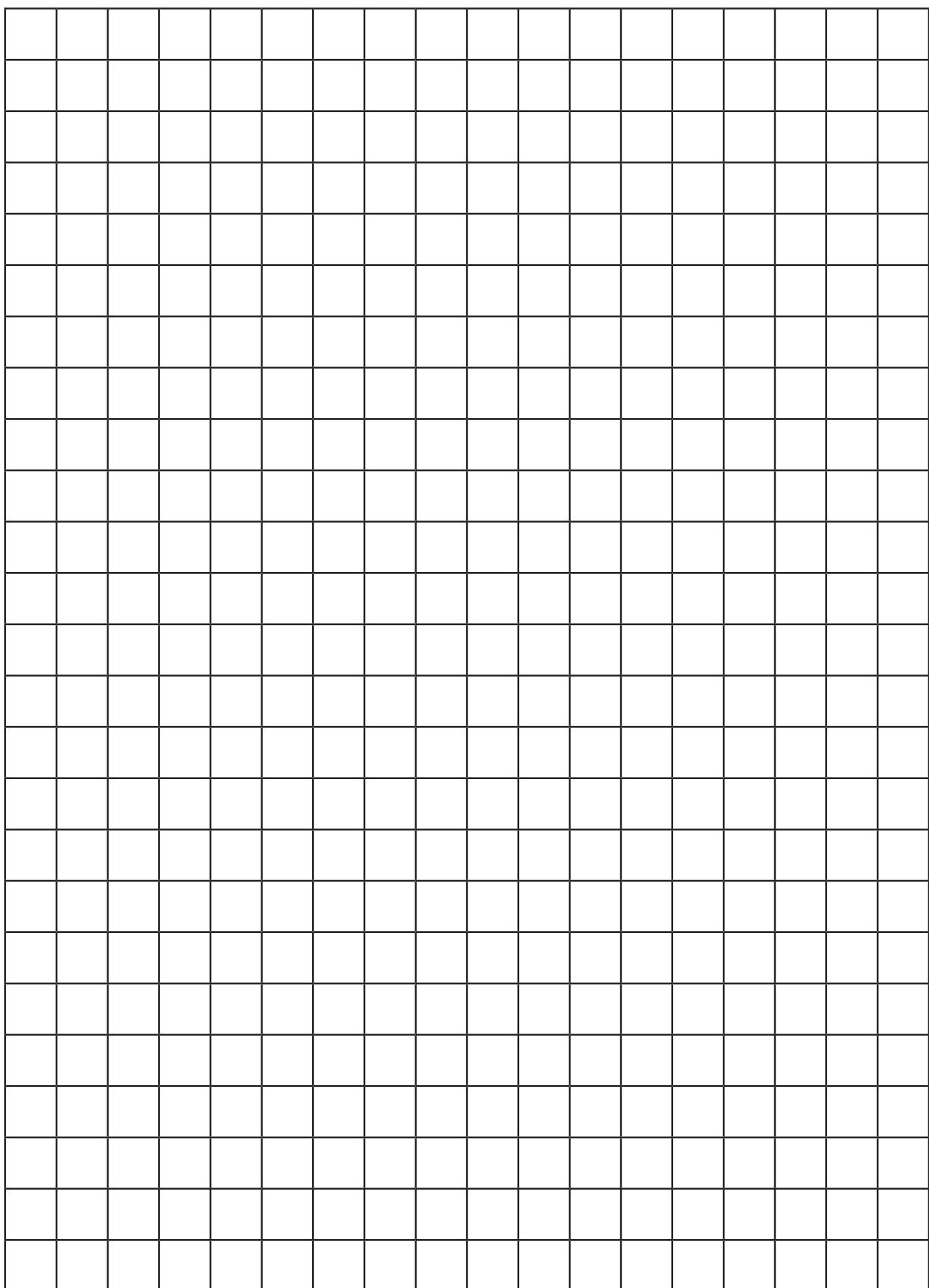
8 O O

8 O 8

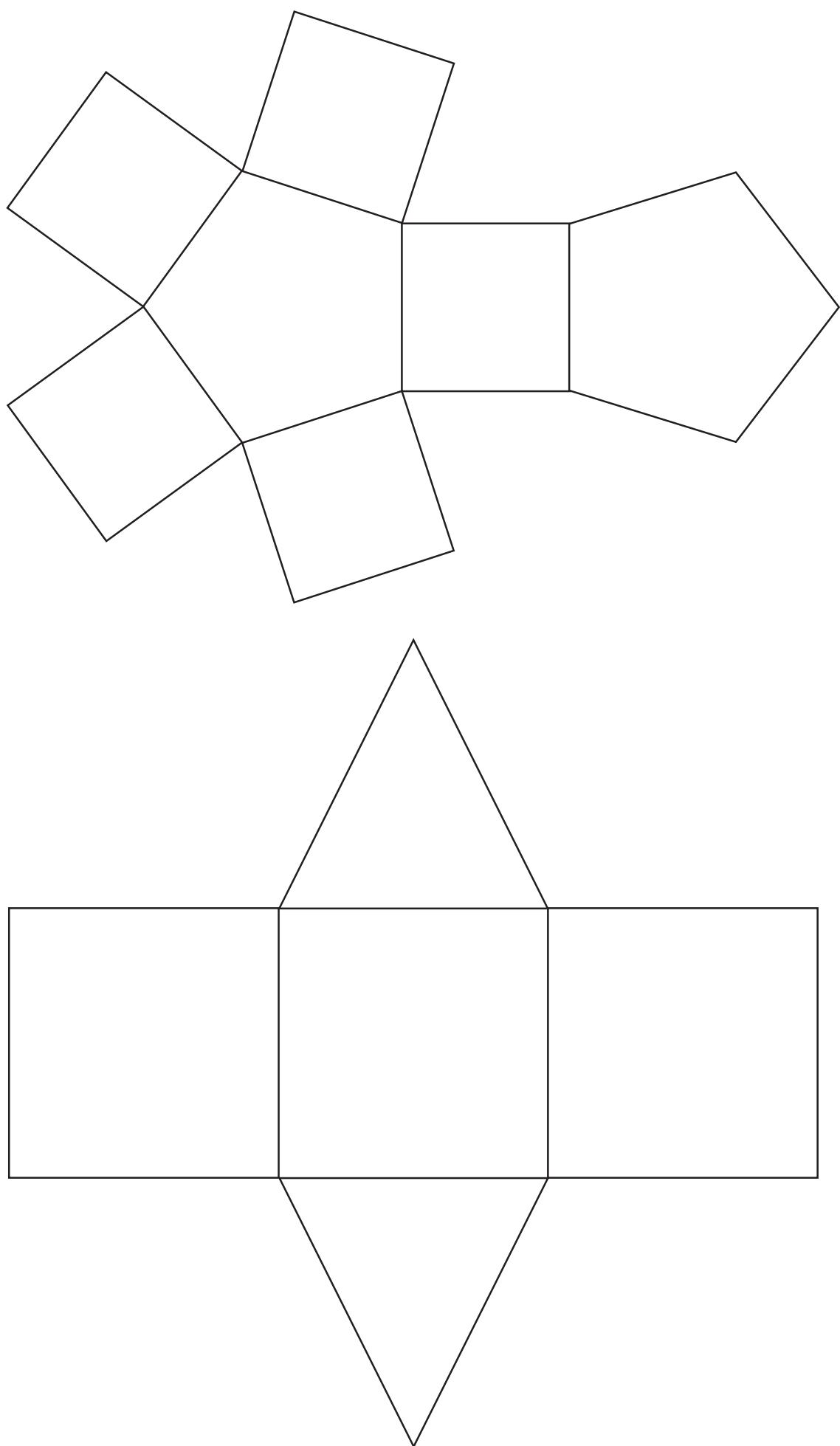
q O O

q O q

Xitsemiwa 2



Cut-out 3



Cut-out 4

