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Masungulo



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Xandla xa Holobye wa
Dyondzo ya Masungulo

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

**THIS BOOK MAY
NOT BE SOLD.**

Tibuku leti to tirlela ti endleriwe vana va Afrika-Dzonga ehansi ka vurhangeri bya Holobye wa Dyondzo ya Masungulo, Manana Angie Motshekga, na Xandla xa Holobye wa Dyondzo ya Masungulo, Nkulukumba Enver Surty.

Tibuku to tirlela ta Rainbow ti yumba xiyege xin'wana xa ntlawa wa migingiriko ya Ndzwulo 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, phrojeke leyi yi humelerile hi ku seketeriwa hi timali hi Nkwama wa Timali ta Tiko. Leswi swi endlile leswaku Ndzwulo yi swi kota ku endla leswaku tibuku leti to tirlela, ti kumeka hi tindzimi hinkwato ta ximfumo handle ko hakeleriwa.

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

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

Hi mi navelela ku humeleta, wena na vadyondzi va wena eku tirhiseni tibuku leti to tirlela.

1 2 3 4

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MATEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 1

ISBN 978-1-4315-0014-7



Giredi
ya 3

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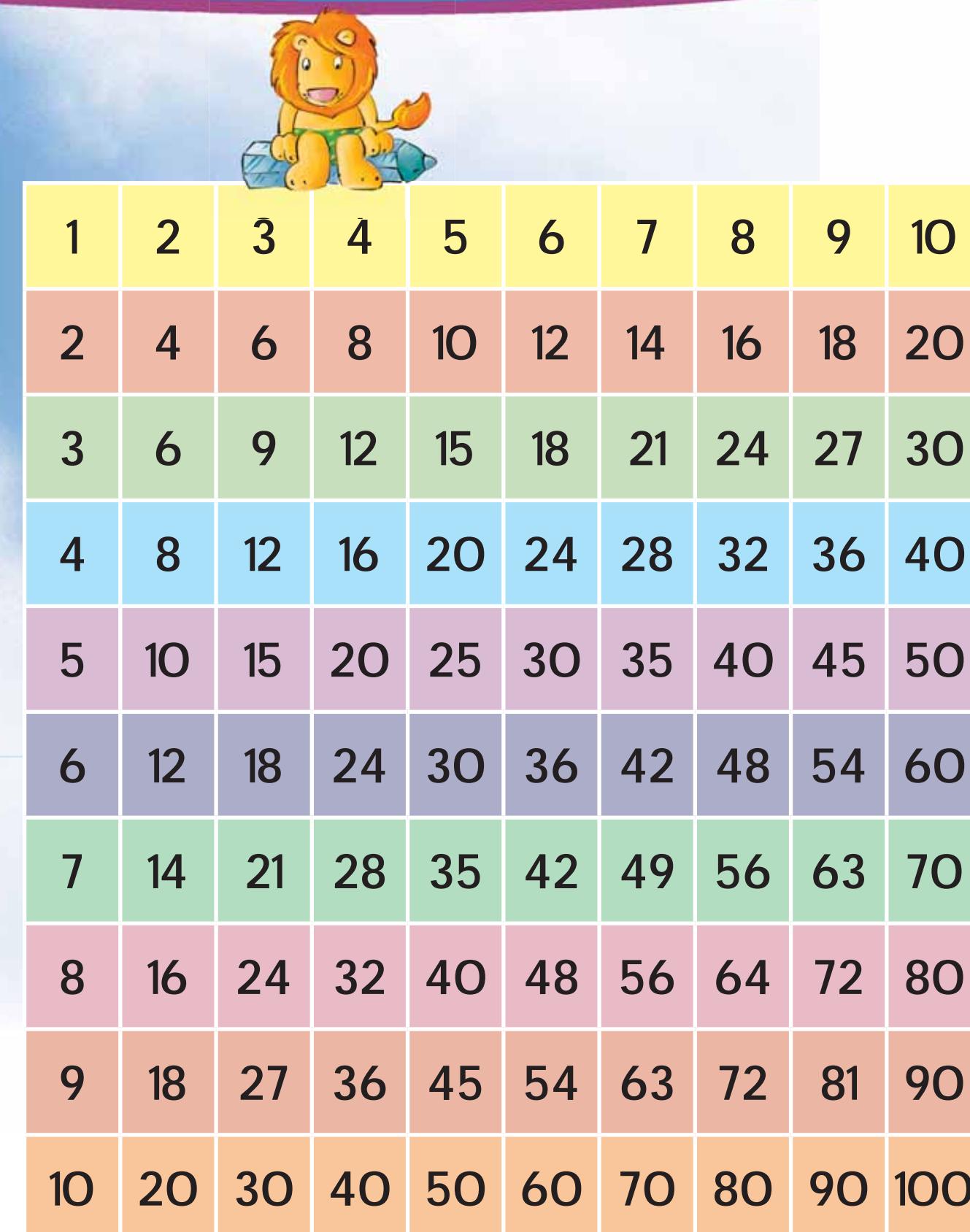


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Giredi
ya 3



Matematiki

HI XITSONGA

Buku leyi i ya:



XITSONGA

Buku ya

I



Siku:

.....



Hlayela, hlawula no kombisa!

I tinyeleti tingani?

Ringanisani tinhlamulo.



Pimanyisani leswaku ku na tinyeleti tingani. _____

Sweswi ti hlayeleni. _____



Kumani muhluri!

Xana i mani a nga endla mpimanyiso wa kahle?

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

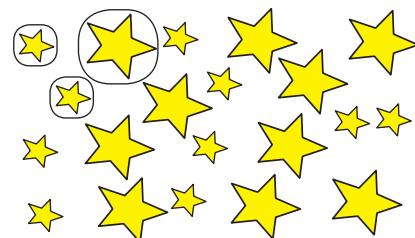
Vito				
Mpimanyiso				
Nhlayo leyi hlayeriweke				
Ku hambana exikarhi ka mpimanyiso na ku hlayela ka n'wina				



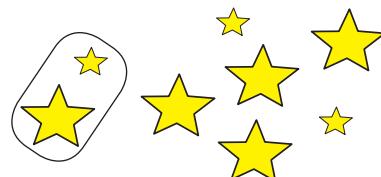
Tindlela to hlayela. Hi pfuneni ku ti tsala ehansi.



Ndzi hlayele hi vun'we.



I, 2, 3, _____



2, _____

Ndzi hlayele hi vu-2.

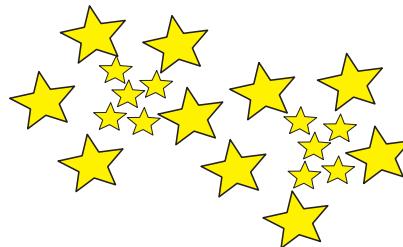


Ndzi hlayele hi vuntlhanu.

Ndzi hlayele hi vuntlhanu.

Ndzi hlayele hi vuntlhanu.

Ndzi hlayele hi vuntlhanu.



Ndzi hlayele hi vukhume.

Ndzi hlayele hi vukhume.

Ndzi hlayele hi vukhume.

Ndzi hlayele hi vukhume.

5, _____



Tsalani swivulwa swa tinomboro

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

Loko u hlanganisa
tinomboro tihi kumbe tihi
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:

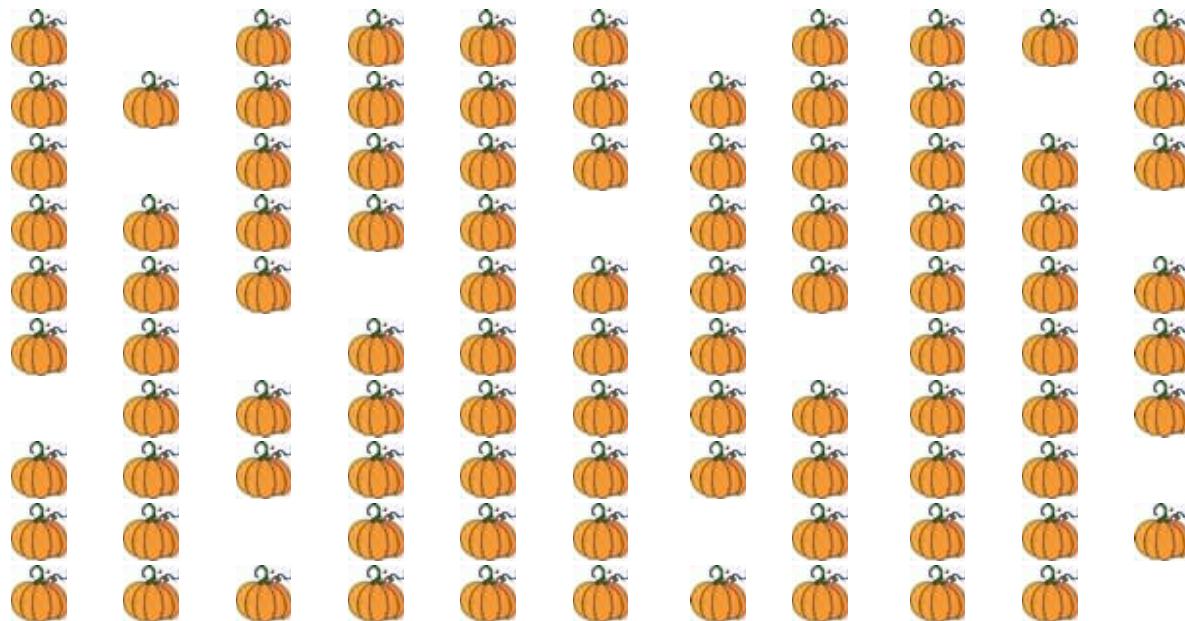
Kotara ya |



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 × (ku hlanganisa ku ya eka ku andzisa)

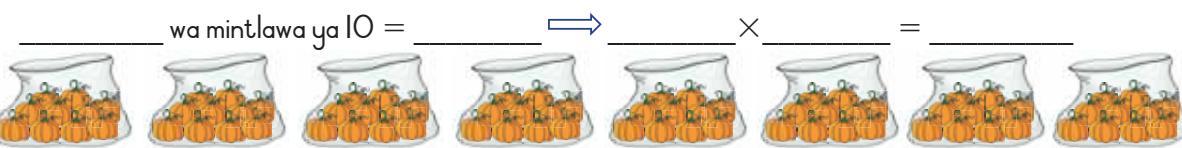
Hetisa swivilwa swa tinomboro.

Xikombiso:

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



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

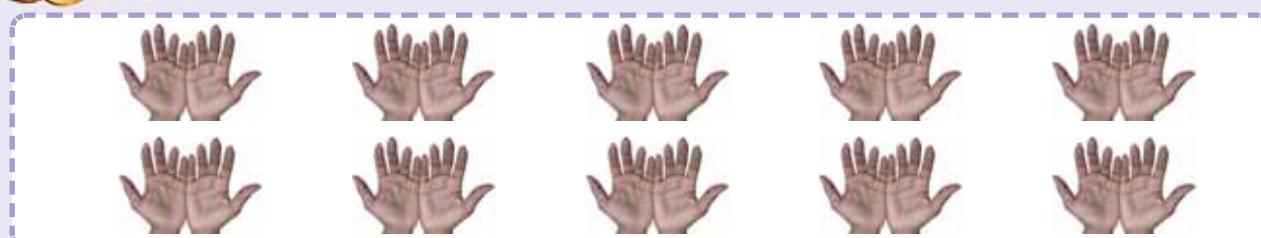


b. $10 + 10 + 10 + 10 + 10 + 10 + 10 = \underline{\hspace{2cm}}$

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



Swandla na tintiho



Xana i swandla swingani?

Xana i tintiho tingani?

Tsala nhlamulo ya wena hi 2 wa tindlela.

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



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?



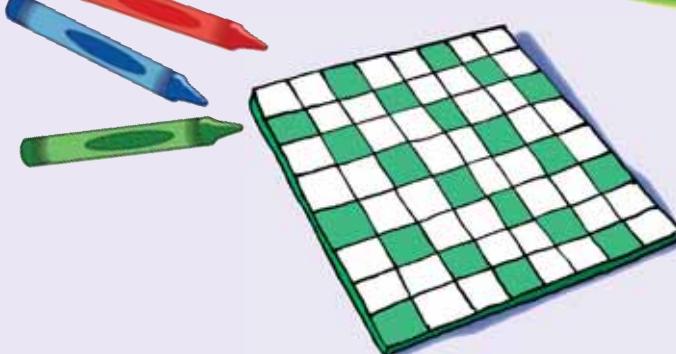
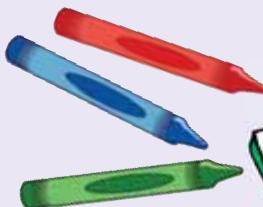
Tsala tinomboro hi marito.

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:

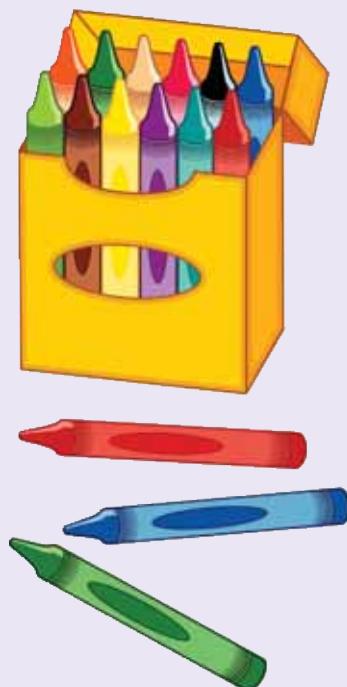
Kotara ya |

Tinomboro eka giridi (ku yisa emahlweni)



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



Teacher:
Sign:

Date:

4



Siku:

Kotara ya I



Nkoka wa ndhawu

Ku kombisa tinomboro ta wena

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

19

43

69

54

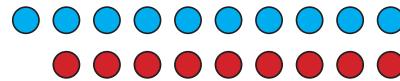
35

1 0

9



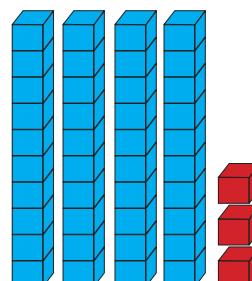
19



1 0
9

$$10 + 9 = 19$$

43



1 0
1 0
1 0
1 0
3

$$40 + 3 = 43$$

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

54

35

69

10

1 2 3 4 5 6 7 8 9 10



Tsala tinomboro leti

Hi ku endlele yo sungula.

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

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



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

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



5



Siku:

.....

Ku hlanganisa na ku susa



Xitolo xa Lebo

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

a. Xana Lebo u xavisile maphakiti mangani? _____

b. Tsala nhlamulo ya wena tanahi xivulwa xa tinomboro.

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



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

$$15 - 9 = 6 \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad}$$



Ntoloveto wo vuyelela tinomboro

$$1 + 2 = 3$$

Tirhisa ...
+ - =

Tsala tinhlamulo.

$10 + 5 =$ <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

Hi leswi swikombiso swa ndyangu wa nomboro leyi.

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

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

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

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



Xana u nga kuma mindyangu hinkwayo ya nomboro ya 14?

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



Ndzi t.a endla
leswi fanaka hi 12.

12

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



6

Siku:

Kotara ya I

Ku andzisa kambirhi na tihafu

Xana wa tsundzuka?

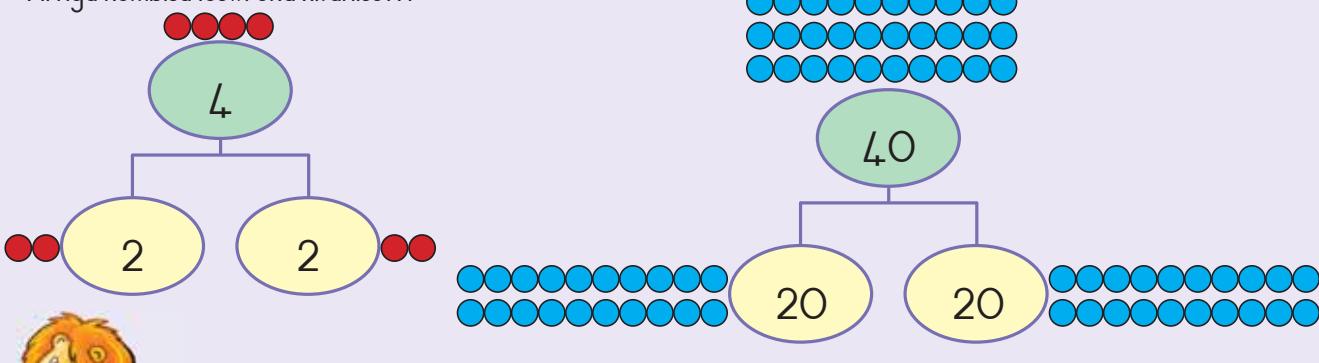
2 i hafu ya 4

20 i hafu ya 40

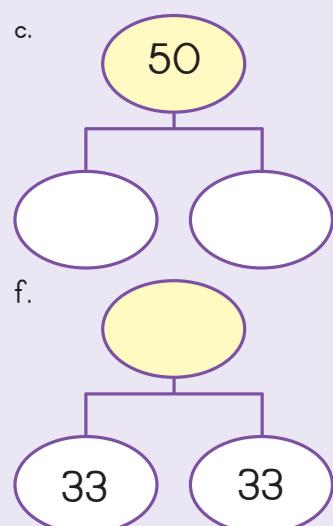
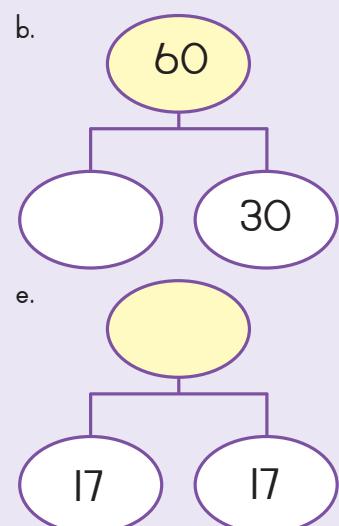
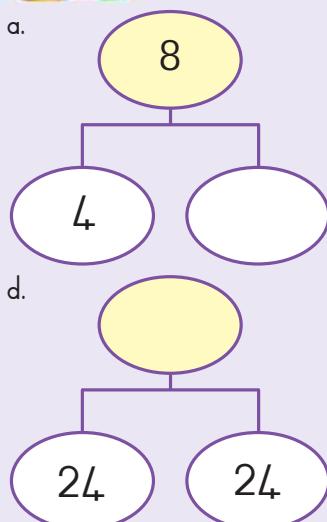
4 i 2 yi andzisiwe kambirhi

40 i 20 yi andzisiwe kambirhi

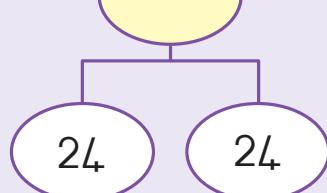
Hi nga kombisa leswi eka xifaniso...



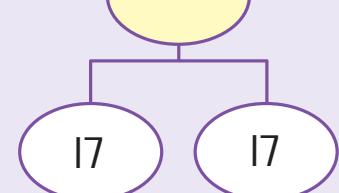
Kuma mitsengo ya ku andzisa kambirhi kumbe tihafu



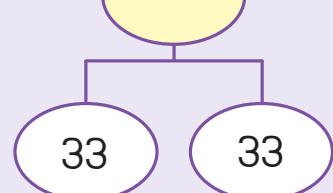
d.



e.



f.



Ntlhontlho

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. U nyikiwe xikombiso xo sungula.

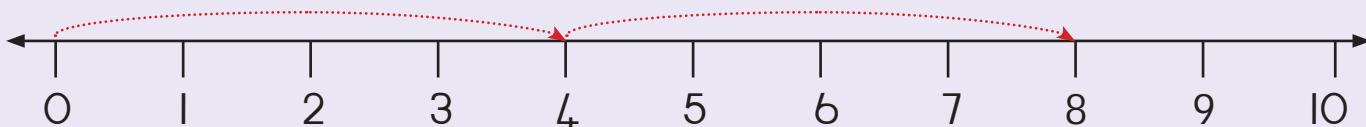
a. Andzisa 4 kambirhi

4

+

4

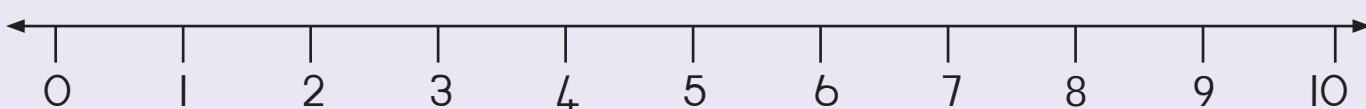
= 8



b. Andzisa 5 kambirhi

+

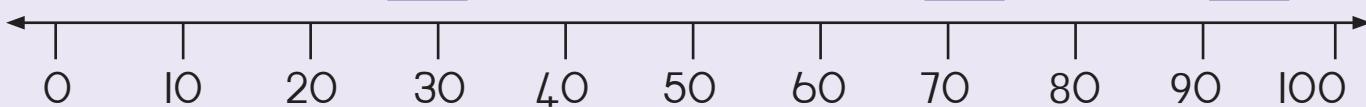
=



c. Andzisa 20 kambirhi

+

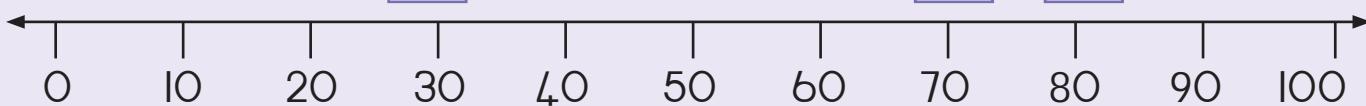
=



d. Andzisa 40 kambirhi

+

=



Hetisa leswi landzelaka

a. Andzisa 1 kambirhi	<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"/>



Teacher:
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7



Siku:

Kotara ya 1

Swiphemu

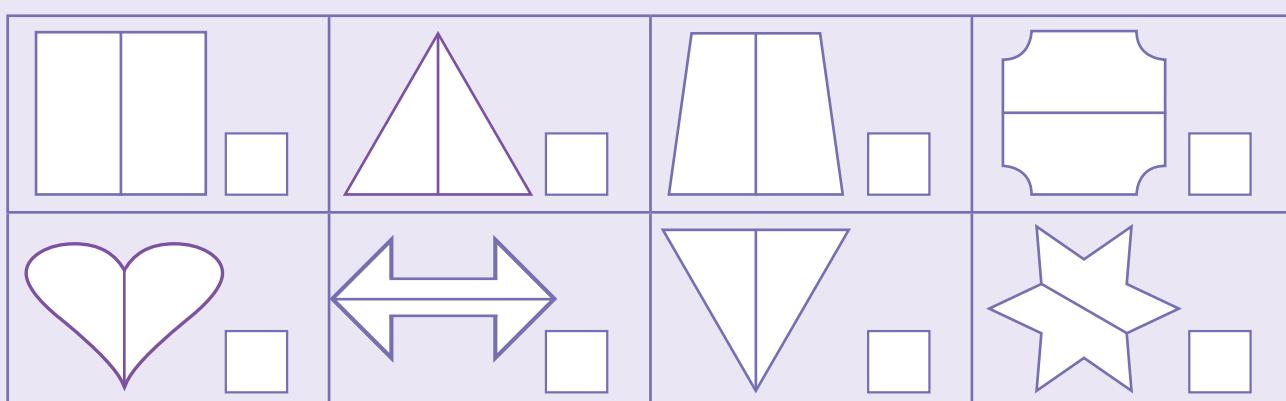
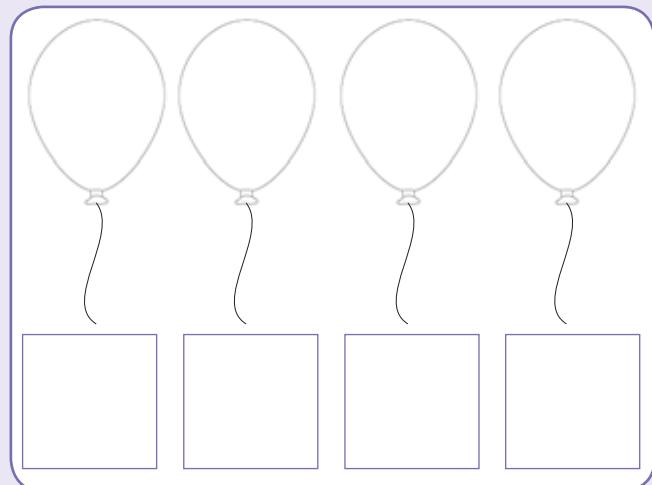
Khalara kotara ya tibaluni hi muhlovo wo tshwuka kasi leti saleke hinkwato hi muhlovo wa wasi.

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



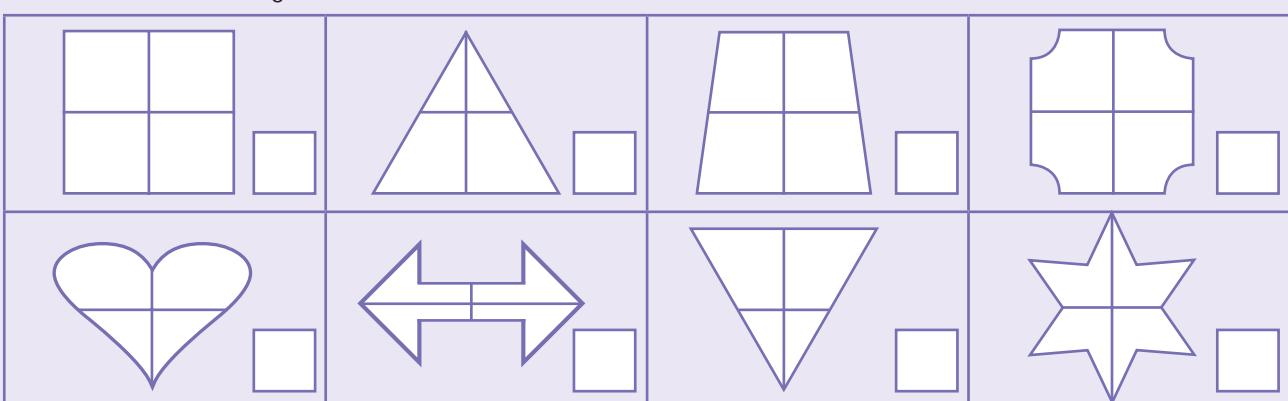
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tihafu.

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



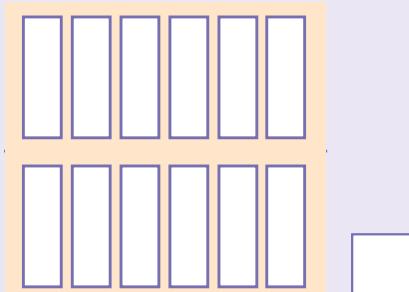
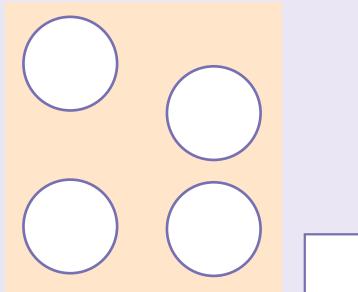
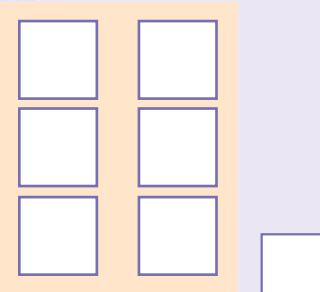
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tikotara.

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

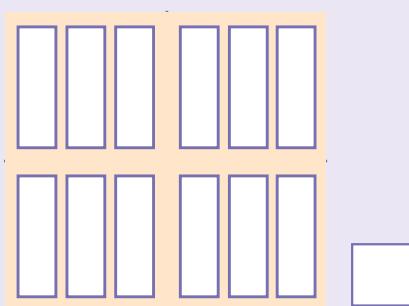
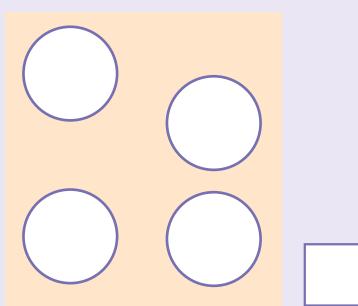
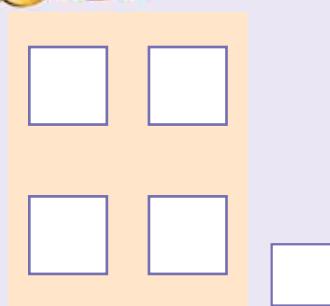




Khalara hafu ya swivumbeko. Xana hafu ya nhlayo ya swivumbeko i yini?



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



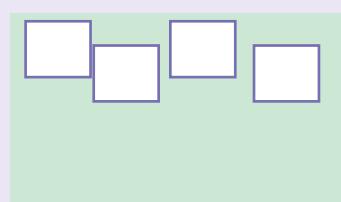
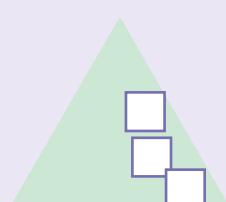
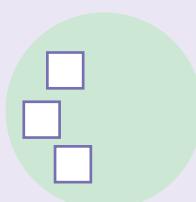
Tsala tanihi mfungho wa xiphemu.

hafu

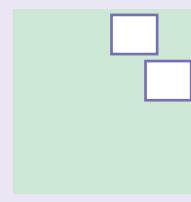
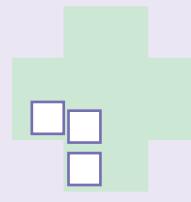
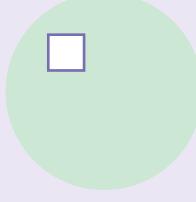
kotara



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



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





Siku:

.....

Ku hlawula mali



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

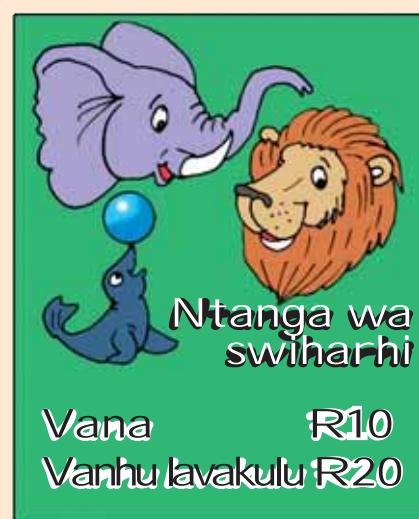
Vanhu lavakulu na vana va ya entangeni
wa swiharhi. Va xava mathikithi ya R90.

Xana vana i vangani? _____

Xana lavakulu i vangani? _____

Xana ku na nhlamulo yin'wana?

Vanhu lavakulu _____ Vana _____



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Siku:

Kotara ya I



Tipatironi

Tirhisabodoleyi ya 200 wa tinomboro ku hlamula swivutiso.

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	I0
I1	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50
5I	52	53	54	55	56	57	58	59	60
6I	62	63	64	65	66	67	68	69	70
7I	72	73	74	75	76	77	78	79	80
8I	82	83	84	85	86	87	88	89	90
9I	92	93	94	95	96	97	98	99	100
I0I	I02	I03	I04	I05	I06	I07	I08	I09	I10
III	II2	II3	II4	II5	II6	II7	II8	II9	II0
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, II0, II5, __, __, __, __	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 khalariveke 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**.

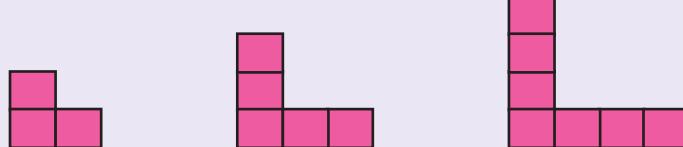
									10



Engetela patironi.









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Siku:

.....

Kotara ya I

Tibolo, mabokisi na tisilindara



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



Khalara nhlamulo leyi faneleke.



Bokisi

rheta
khunguluka



Silindara

rheta
khunguluka



Bolo

rheta
khunguluka



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



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Date:

11 12 13 14 15 16 17 18 19 20



Siku:

.....

Kotara ya I



Dirowa swivumbeko

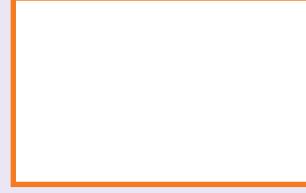
Yinhlanharhu



Xirhendzevutana



Xikwere

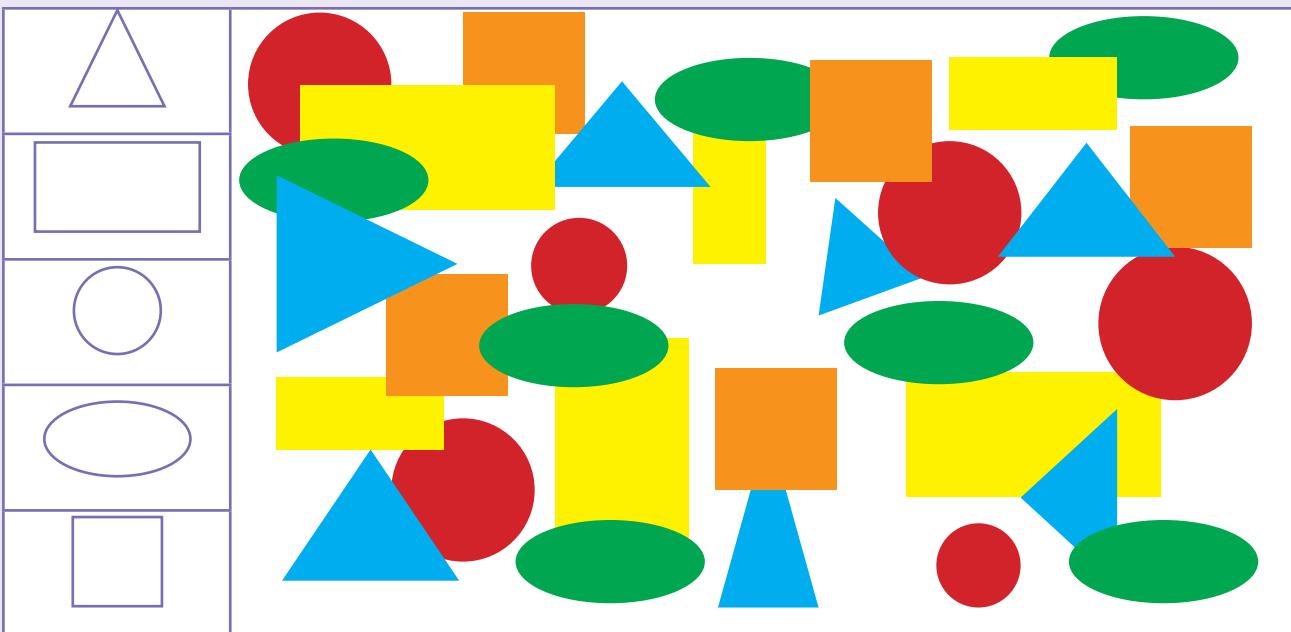


Yinhlamune



Ku hlayela swivumbeko

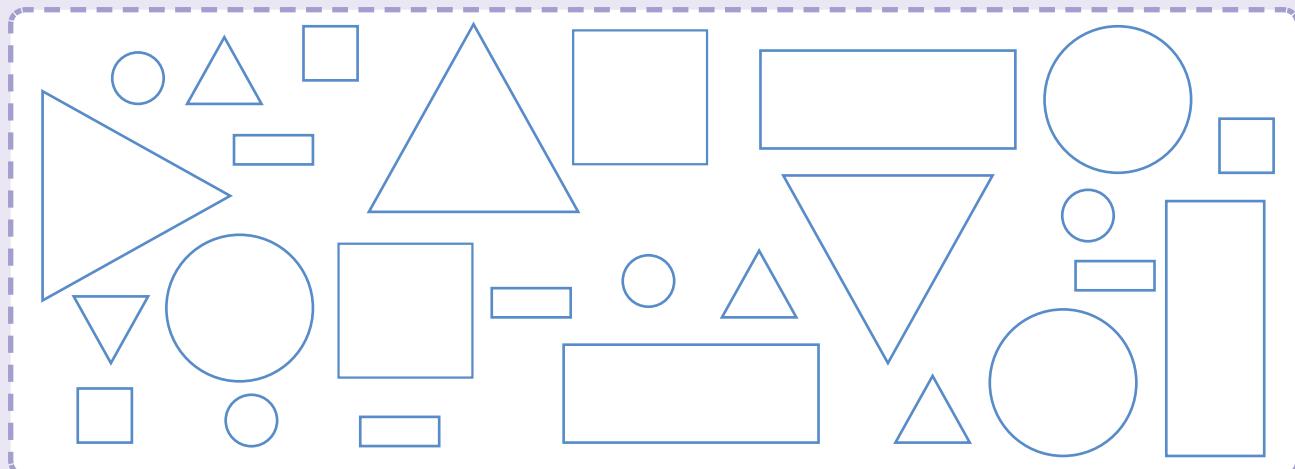
Hlayela leswaku ku na swivumbeko swingani swo fana na leswi u nga swi kuma exifanisweni.





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

Information icons and a clipboard for teacher signature:

- Circle icon
- Square icon
- Triangle icon
- Clipboard icon with fields for Teacher, Sign, and Date.

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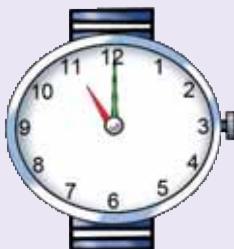
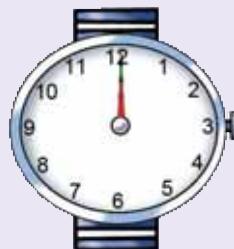
Siku:

Nkarhi wa famba



Ku hlaya nkarhi

Xana i minkarhi yihi leyi tiwachi leti ti yi kombisaka?



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



Tlula u rhendzeleka na wachi

Pfuna kondlo ku hlayela timinete hi vuntlhanu.

Sungula eka 12. Famba u rhendzeleka ku fika emakumu.



Xana u hlayele timinete tingani? _____

Xana ku na timinete tingani eka awara? _____



Ku tsala nkarhi

Dirowa timhondzo ku kombisa minkarhi.



kotara ku bile awara
ya 6

hafu ku bile awara ya 8

kotara ku ya eka awara
ya 11

hafu ku bile awara ya 5



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? _____

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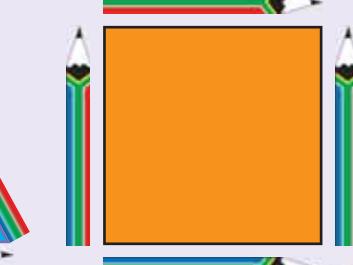
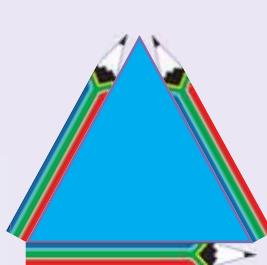
Siku:

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.



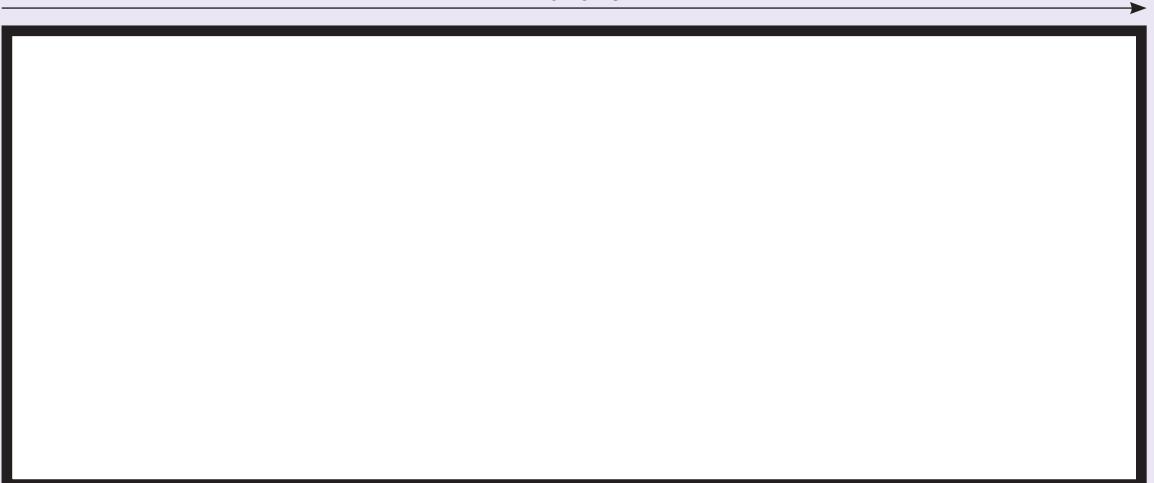
Xana yinhlamune yi lehile ku ringana tipensele tingani?



Xana yinhlamune yi anamile ku ringana tipensele tingani?



ku leha



Xana u ti tirhise njhani tipensele ku hlayela?

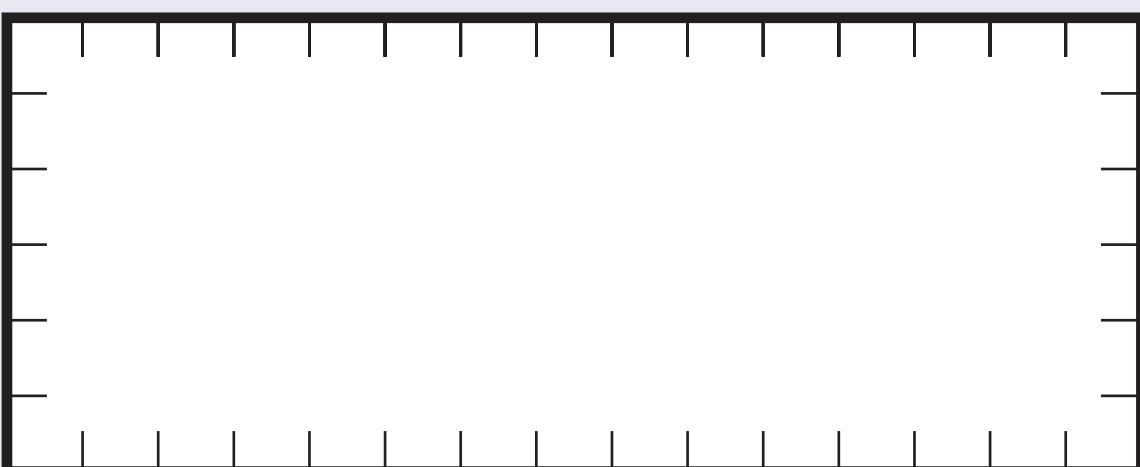


Ku leha ko hlamarisa

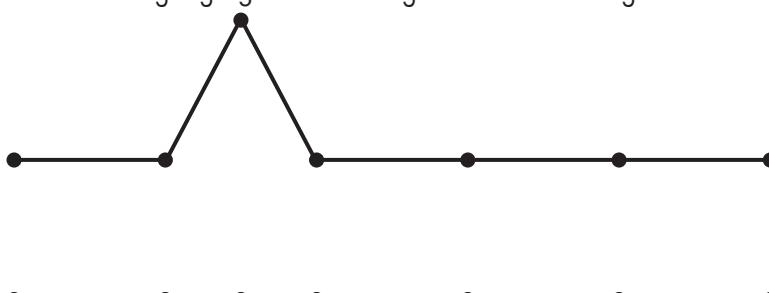
- a. Xana i mitila yo **tshwuka** yingani leyi u faneleke ku yi kuma ku kota ku ringana na ntila wa ntima?



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



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



Nhlamulo _____

Hikwalaho ka yini? _____



Teacher: _____
Sign: _____
Date: _____

14



Siku:

.....

Kotara ya!



Vundzeni

Se ndzi cherile malepula ya
mune endzeni ka khapu.

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



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

a.



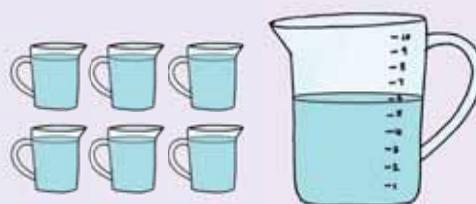
Endzeni ka xibye: Ku laveka: 9

b.



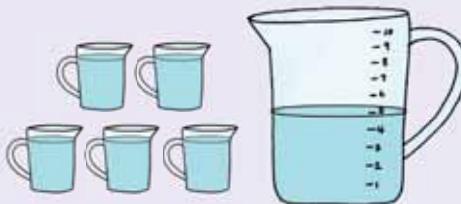
Endzeni ka xibye: Ku laveka:

c.



Endzeni ka xibye: Ku laveka:

d.



Endzeni ka xibye: Ku laveka:

e.



Endzeni ka xibye: Ku laveka:

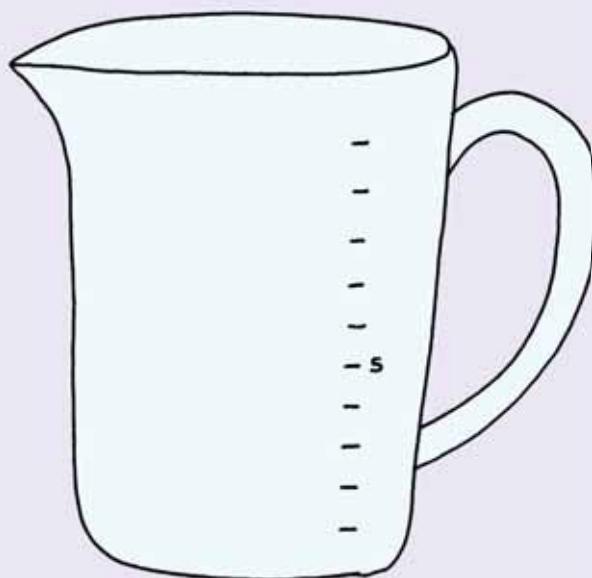
f.



Endzeni ka xibye: Ku laveka:



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



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

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



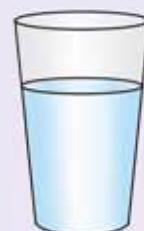
Gwajula swibye swo chela leswi khomaka 1 litara ya swihalaki.













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Siku:

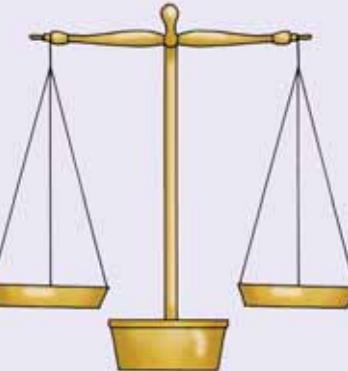
Kotara ya!



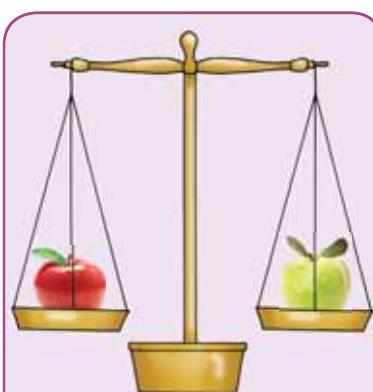
A hi pimeni ntiko!

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

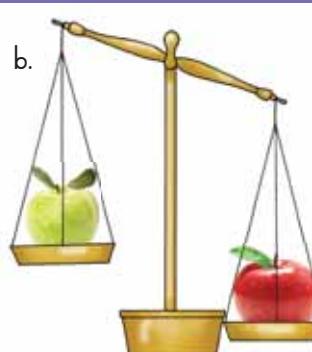
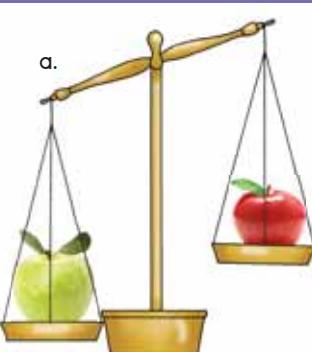
Hi pima ntiko hi tikilogiramu. Hi tirhisa nkomiso wa: kg.
I mani loyi a nga na ntiko lowukulu?



Hi tirhisa xikalu xa balansi ku pima ntiko.



Eka xikalu lexi maapula hinkwawo
ya tika ku ringana.



Hlamula xivutiso hi ku tsala a kumbe b.

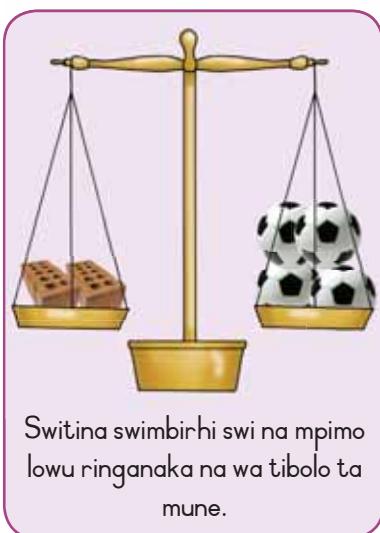
Hi le ka xikalu xihi laha apula ra rihlaza ri tikaka ku tlula apula ro tshwuka?

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

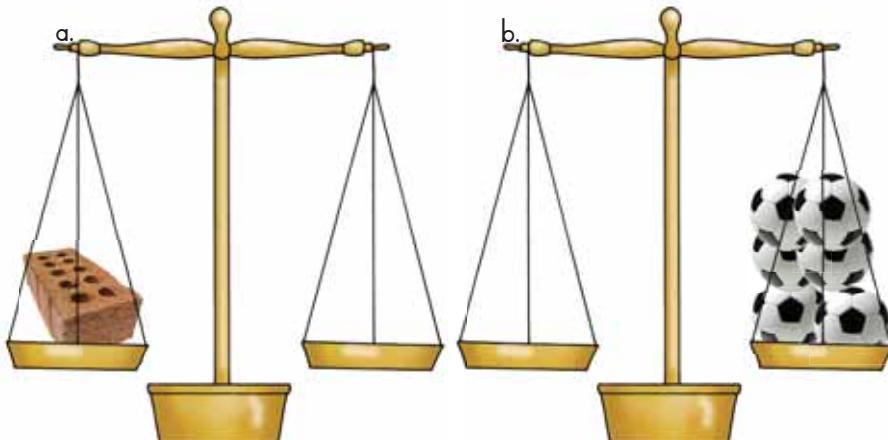


Ringanisa swikalu.

Hi ku endlele xo sungula.



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



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

a. 2 maphasela _____

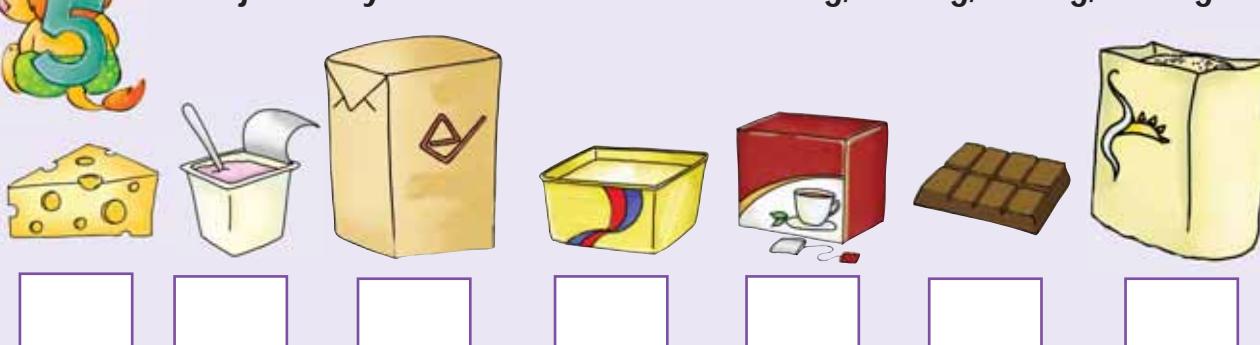
b. 3 maphasela _____

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



Hikwalaho ka yini swi kote ka kumbe swi nga kote ki? _____

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



<input type="radio"/>	<input type="radio"/>

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 swifaniso



= mudyondzi un'we

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



Sweswi hlamula swivutiso leswi.

- 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 tih!

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



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

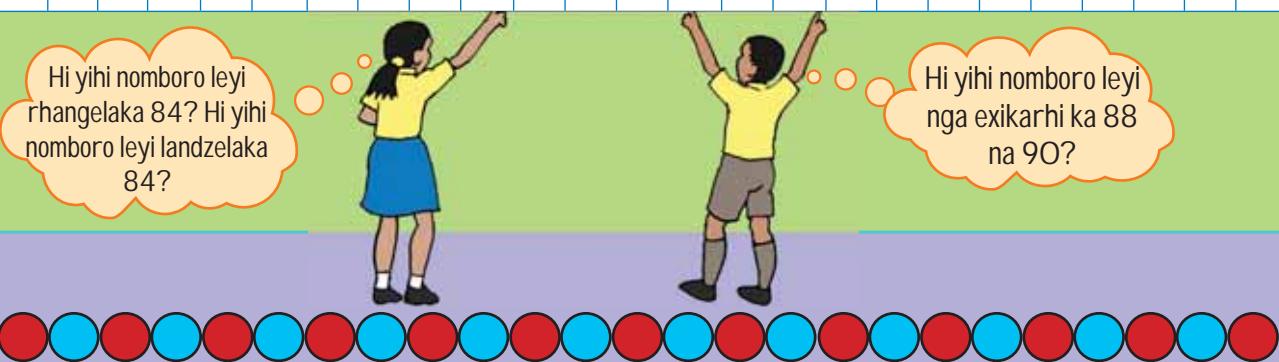
17

Siku:

Kotara ya 1

Ringanisa no longoloxa tinomboro

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



Tata tinomboro leti siyiweke.

51																							
71																							
																							100

Tirhisa bodo ya tinomboro ku hlamula 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:

$$32 \quad > \quad 64 \qquad 23 \quad > \quad 18$$

$$57 \quad \square \quad 98 \qquad 89 \quad \square \quad 57$$



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



18



Siku:

Kotara ya 1



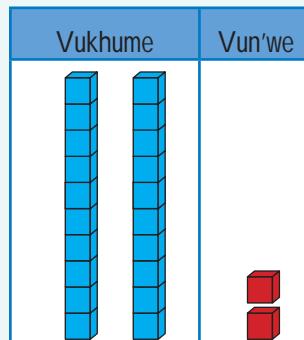
Nkoka wa ndhawu ku fika eka 99

Ku kombisa tinomboro hi ku tirhisa swilo

Hi nga kombisa tinomboro hi tibuloko ta nkoka wa ndhawu.

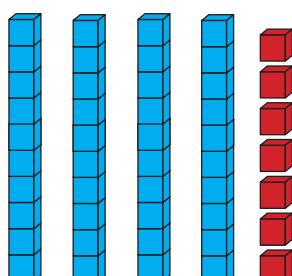
Buloko leyitsongo yi yimela 1. I yuniti/vun'we.

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



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

Leswi hi nga kombisisaka xiswona 47.



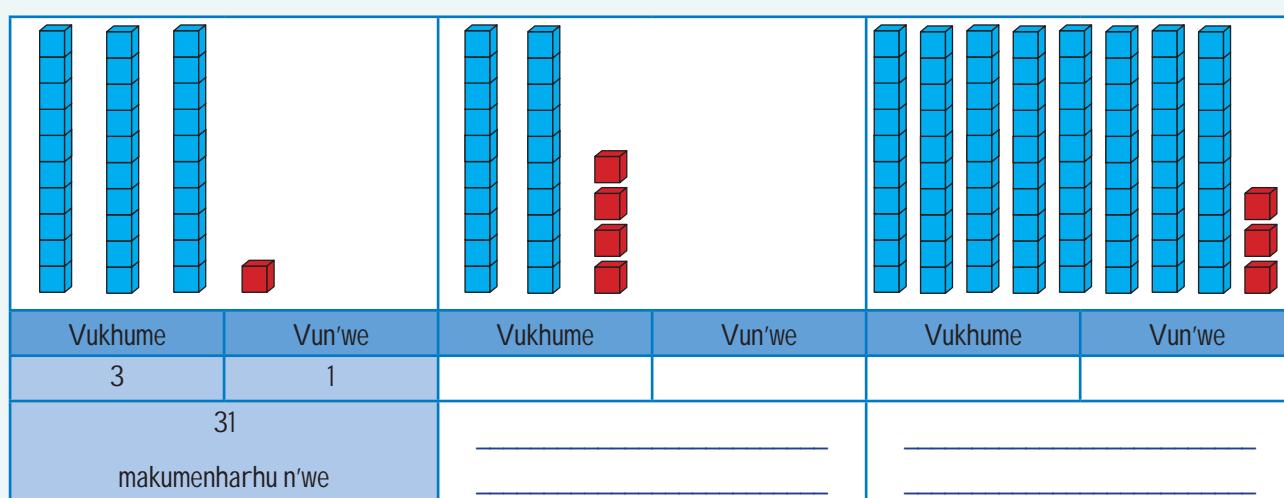
Vukhume	Vun'we
4	7

makumemune nkombo
47



Ku tsala tinomboro hi tidijiti na hi marito

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





2 0 6

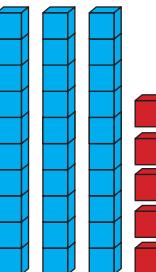
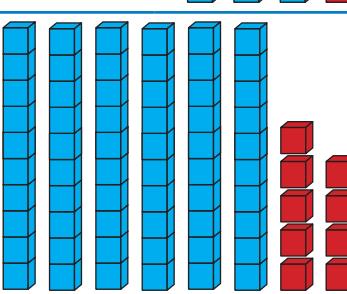
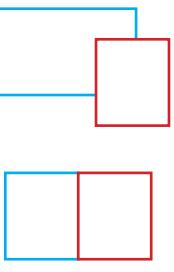
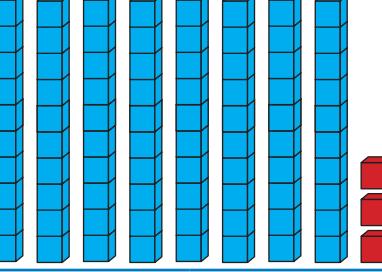
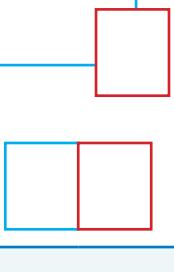
2 6

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

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



Xana nomboro i yini?

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



Ku veka vukhume kun'we loko hi hlanganisa eka 99



Hlaya

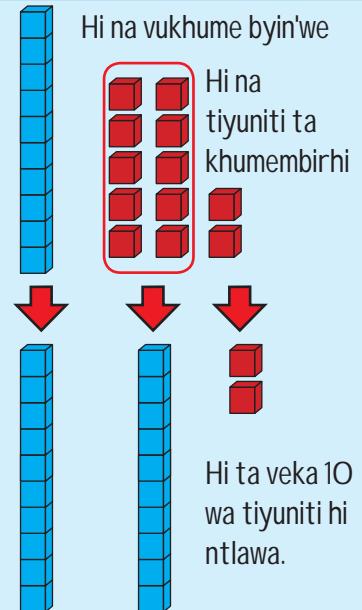
Hi leyi ndlela yin'wana ya ku kombisa 22.

Vukhume	Vun'we

1 khume 12 ya vun'we

1	0	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 tonā.

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

Vukhume	Vun'we

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

2	0	7	4
---	---	---	---

Hi na 2 ya vukhume
na 11 ya vun'we

Vukhume	Vun'we

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

2	0	1	0	1
---	---	---	---	---

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

Vukhume	Vun'we

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

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



Teacher:
Sign:
Date:

20a

Siku:

Hlanganisa eka ndzhati wa mitsengo

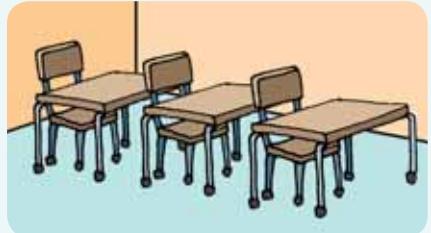
Kotara ya 1

Tshama edesiken i ra wena!

Exikolweni xa hina mudyondzi unwana na unwana u na desika ra yena.

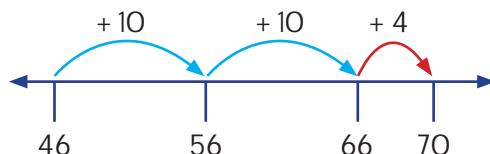
Ku na 46 wa vadyondzi eka Giredi ya 3A na 24 eka Giredi ya 3B.

Xana i madesika mangani ma lavekaka eka titlilasi letimbirhi?



Tirha na nakuloni

Languta hilaha vadyondzi lavanhharhu va tirhisaka xiswona ndzhati wa mitsengo ku lulamisa xiphijo. 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 yinwana 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.



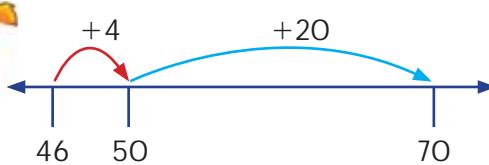
a. $32 + 25 =$





b. $52 + 26 =$

c. $46 + 25 =$



Ndzi fanele ku hlanganisa 24 eka 46.



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

$$= 40 + 10 + 20$$

$$= 50 + 20$$

$$= 70$$

a. $36 + 41 =$



20b

Siku:

Kotara ya 1

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 tinwana kutani ndzi fika eka 70.

$$= 46 + 20 + 4$$

$$= 66 + 4$$

$$= 70$$

a. $63 + 24 = \square$



b. $65 + 29 = \square$



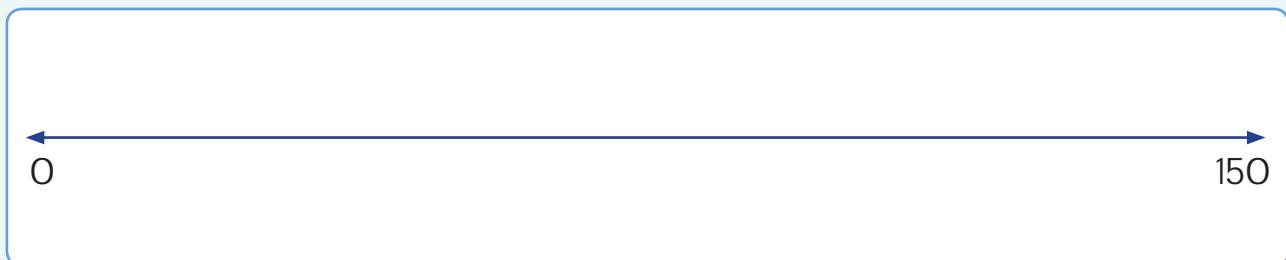


Xana i malofo mangani?

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.

$38 + 24 =$

$58 + 17 =$



$75 + 16 =$

$83 + 29 =$



21a

Siku:

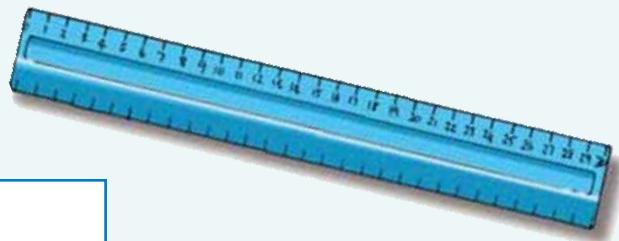
Kotara ya 1

Susa eka ndzhati wa mitsengo

Mudyondzi un'we! Rhula yin'we!

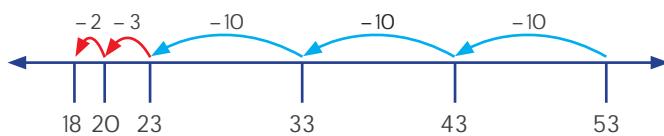
Tlilasi yi lava 53 wa tirhula. Ho va na 35 ntsena.

Xana hi lava tinwana tingani? $53 - 35 =$



Tirha na nakuloni

Hlaya leswi vadyondzi vanharhu va tirhisisaka xiswona ndzhati wa mitsengo.



Hikwalaho, ndzi ta sungula eka 53 kutani ndzi susa.

Ndzi **ta susa** 10, 10, 10 – leswi fikisaka eka **23**. Sweswi ndzi ta susa ntlhanu, ro sungula ndzi susa 3, kutani ndzi ta eka **20**. Ndzi susa 2 yinwana 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**.





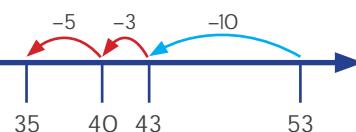
a. $68 - 24 = \boxed{}$



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 yinwana ku kuma 40. Kutani ndzi hlayela ndzi ya endzhaku hi 5 yinwana ku kuma 35. 10 hi hlanganisa na 3 hi hlanganisa na ntlhanu i **18**. Hikwalaho hi lava 18 wa tirhula tinwana.



a. $38 - 14 = \boxed{}$



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

21b

Susa eka ndzhati wa mitsengo (ku yisa emahlweni)

Kotara ya 1

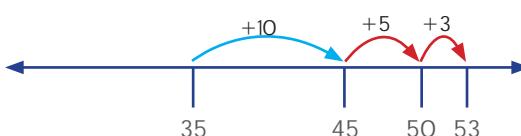
b. $65 - 43 = \square$



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 tinwana.

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 xiphiqo lexi.



← →

km



Teacher:

Sign:

Date:

22

Siku:



Kotara ya 1



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.

😊			
😊			
😊			
😊			
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Teacher:
Sign:

Date:

23

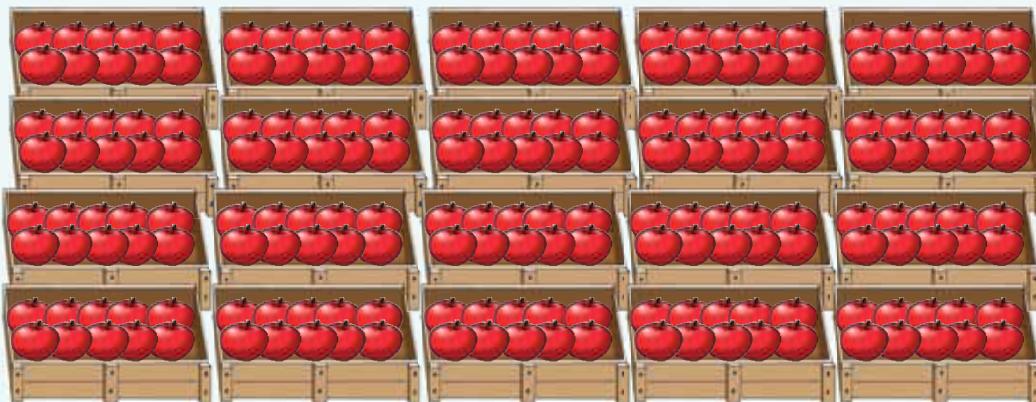
Siku:

Kotara ya 1



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



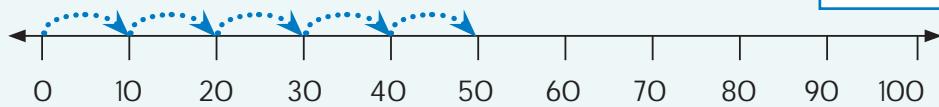
Xana hi nga paka maapula mangani eka mabokisi lama?

- a. 
- b. 
- c. 

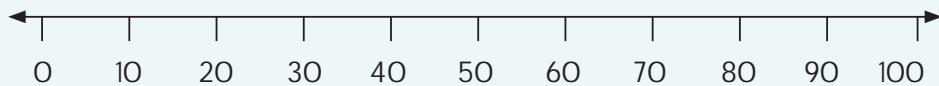


Hlayela eka ndzhati wa mitsengo.

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



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





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

5 wa 10 wa swijumba swi endla	$\underline{\quad} \times \underline{\quad} =$ <input type="text"/>	kumbe	$\underline{\quad} \times \underline{\quad} =$ <input type="text"/>
2 wa 10 wa swijumba swi endla	$\underline{\quad} \times \underline{\quad} =$ <input type="text"/>	kumbe	$\underline{\quad} \times \underline{\quad} =$ <input type="text"/>



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



$10 + 10 + 10 + 10 + 10 =$ **5 O** $5 \times 10 =$

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



Teacher:
Sign:
Date:

24

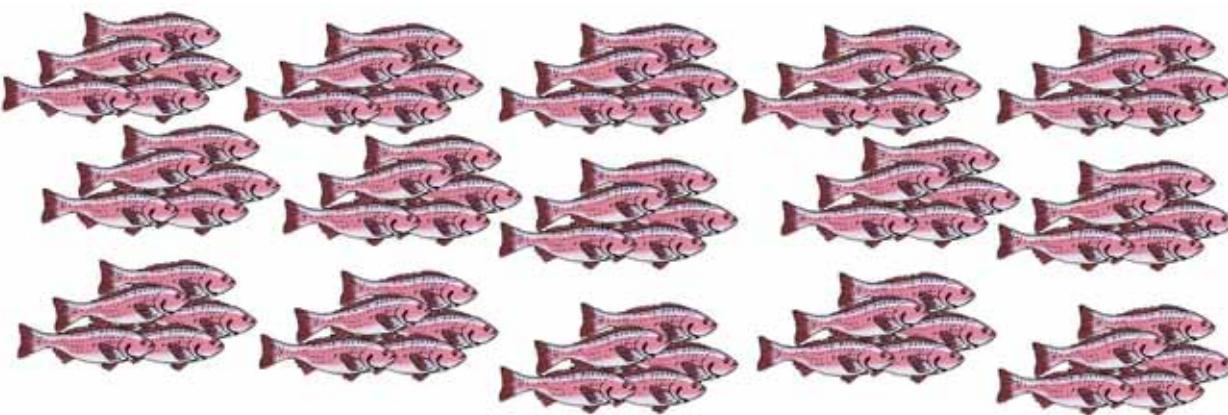
Siku:

Kotara ya 1

Titolovete hi vu-5



Xana ku na tinhlampfi tingani? Pimanyisa



Sweswi hlayela tinhlampfi. Kuma ntsengo.



Hlayela hi vu-5

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

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

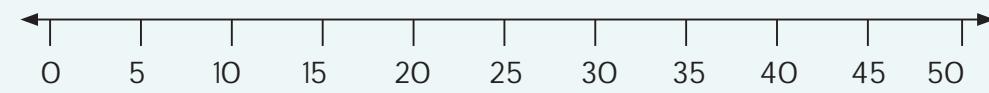


Hetisa mindzhati ya mitsengo



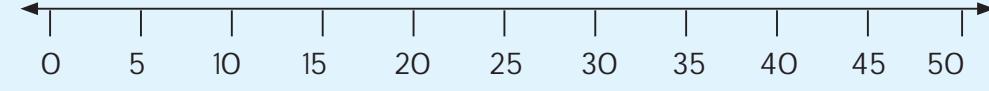
$$5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{35} \text{ kumbe } \boxed{7} \times \boxed{5} = \boxed{35}$$

a.



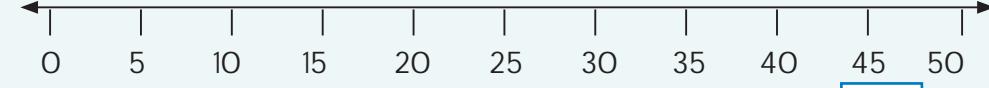
$$5 + 5 + 5 + 5 = \boxed{\quad} \text{ kumbe } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

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 leyi saleke.

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

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



Teacher:
Sign:
Date:

25a

Siku:

Kotara ya 1



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



Kotara ya 1



Hlayela hi vu-2 (ku yisa emahlweni)

Ku vumba tiphere

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

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

2, 4, 6,

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

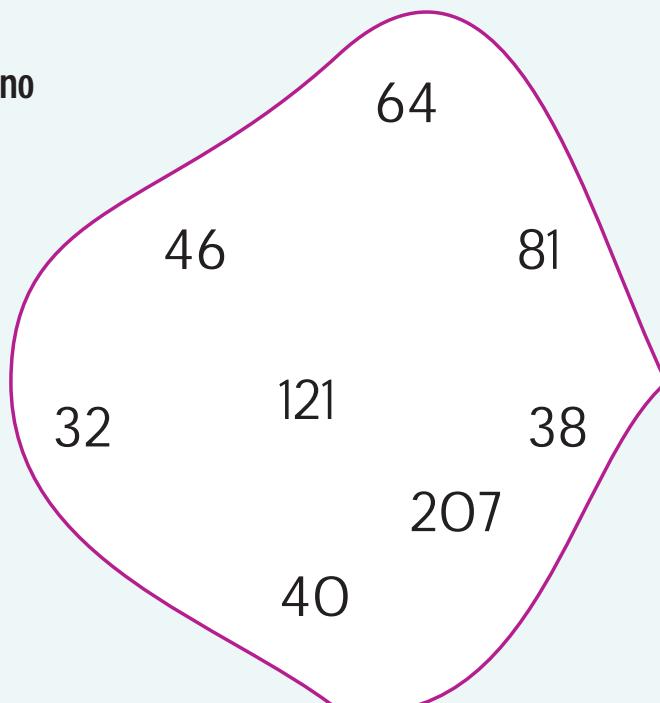
3, 5, 7,



Fadzenga na ndzingano

Dirowa xirhendzevutana eka tinhlayo-ndzingano.

Dirowa xikwere eka tinhlayo-fadzenga.





Ku suka eka tiphere ku ya eka masokisi

Xikombiso:

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



$$2 \times 1 = 2$$

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

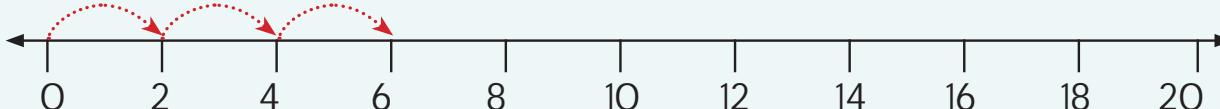
$$2 \times 10 = 20$$

a. Tsala leswaku i masokisi mangani.

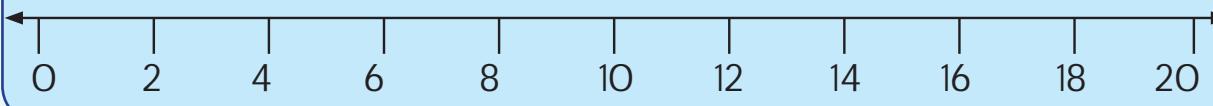
Ehleketa hi vu-2	Xivulwa xa tinomboro
1 phere = 2 wa masokisi	<input type="text"/> 2 \times <input type="text"/> 1 = <input type="text"/> 2
2 wa tiphere = _____ wa masokisi	<input type="text"/> 2 \times <input type="text"/> 2 = <input type="text"/>
4 wa tiphere = _____ wa masokisi	
8 wa tiphere = _____ wa masokisi	
9 wa tiphere = _____ wa masokisi	

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

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



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



Teacher:
Sign:
Date:

26

Siku:

Kotara ya 1

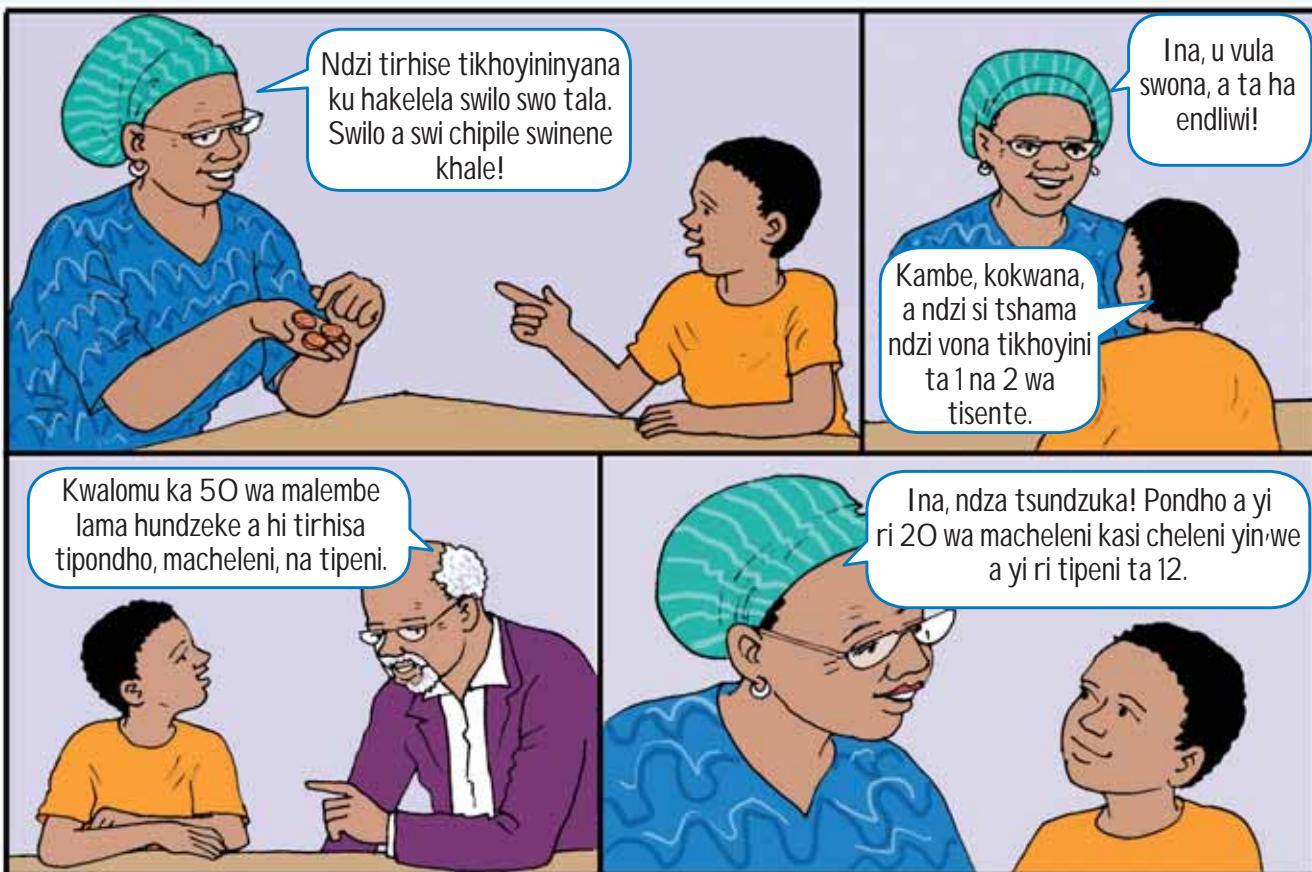
Mali ya khale na ya sweswi



Xitori xa mali ya hina

Laha Afrika-Dzonga hi tirhisa tirhandi na tisente tanahi 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.





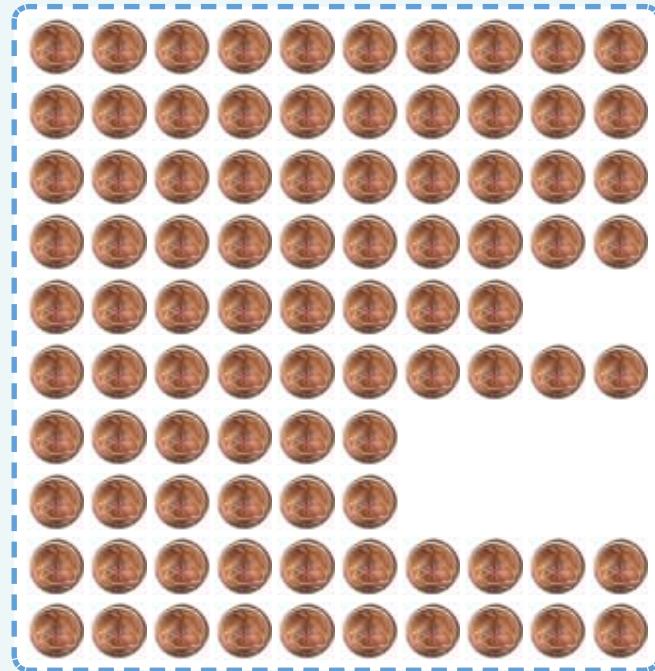
Hlayela tisente

Hlayela tisente.

Xana ku na tisente tingani?

Xana ku laveka tinwana tingani ku endla R1,OO?

Ti dirowe endzeni ka buloko.



Xana i tisente tingani?

R1,OO =	<input type="text"/> c	R2,OO =	<input type="text"/> c
R3,OO =	<input type="text"/> c	R1,5O =	<input type="text"/> c



Xana mihandzu yi durha mali muni?

2 ya durha R4,OO.

2 ya durha R2,OO.

U nga kuma mabanana mangani hi R20,OO?

Eka R9,OO ku kumeka maapula mangani?



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

27

Siku:

Kotara ya 1

Hlayela hi vu-3



Mavhilwa hi vu-3



1 thirayisekele yi na ____ wa mavhilwa.



5 wa tithirayisekele ti na ____ wa mavhilwa.

$$3 + 3 + 3 + 3 + 3 = 5 \times 3 = \underline{\hspace{2cm}}$$

2 wa tithirayisekele ti na ____ wa mavhilwa.

$$3 + 3 = 2 \times 3 = \underline{\hspace{2cm}}$$

4 wa tithirayisekele ti na ____ wa mavhilwa.

6 wa tithirayisekele ti na ____ wa mavhilwa.

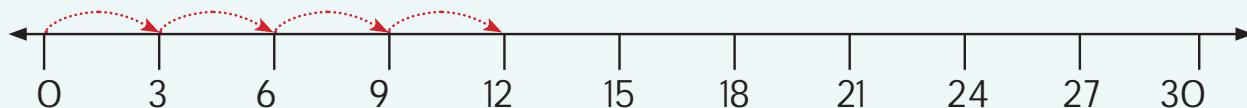
9 wa tithirayisekele ti na ____ wa mavhilwa.

8 wa tithirayisekele ti na ____ wa mavhilwa.



Mindzhati ya mitsengo

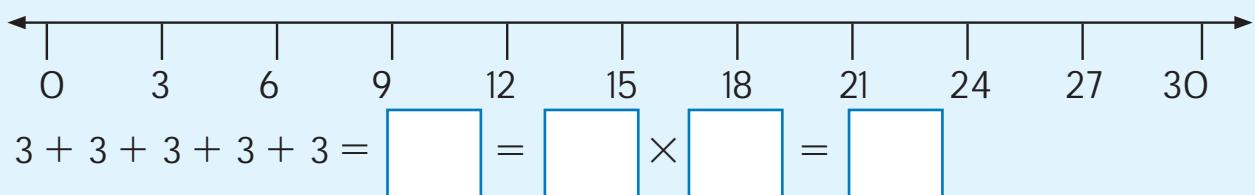
Landzelela xikombiso.



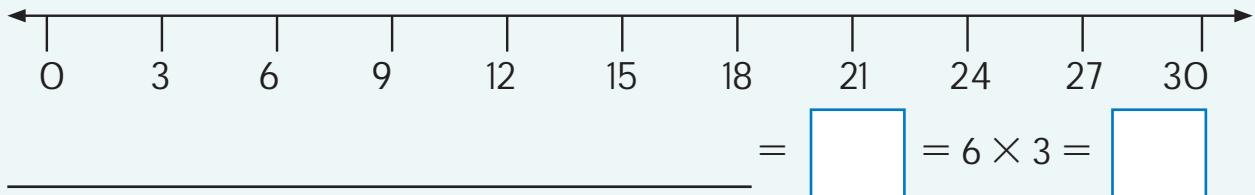
a. $3 + 3 + 3 + 3 = \boxed{\hspace{1cm}} = 4 \times 3 = \boxed{\hspace{1cm}}$



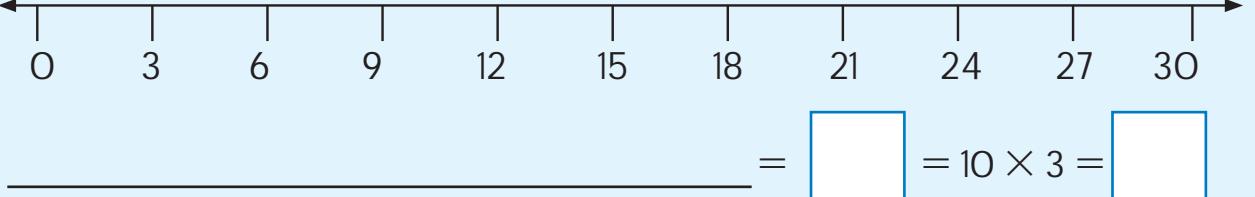
b.



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? _____



Teacher:
Sign:
Date:

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Siku:

Kotara ya 1

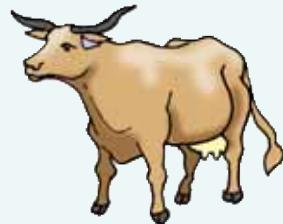
Xana i yini xi taka hi vu-4?



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? _____

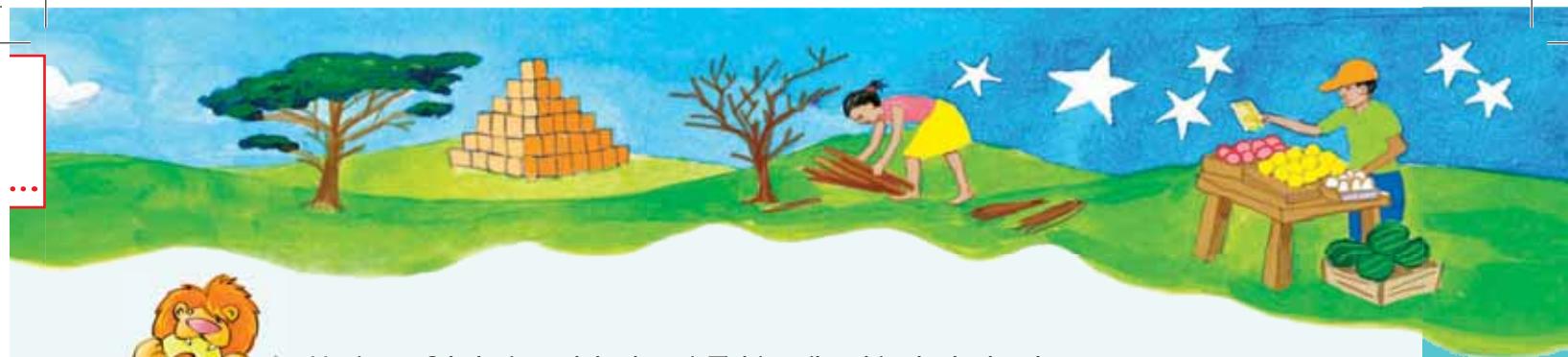


Hlayela milenge

Byelanani tinhlamulo.
Hlamusela leswi u swi endleke.

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

1 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.



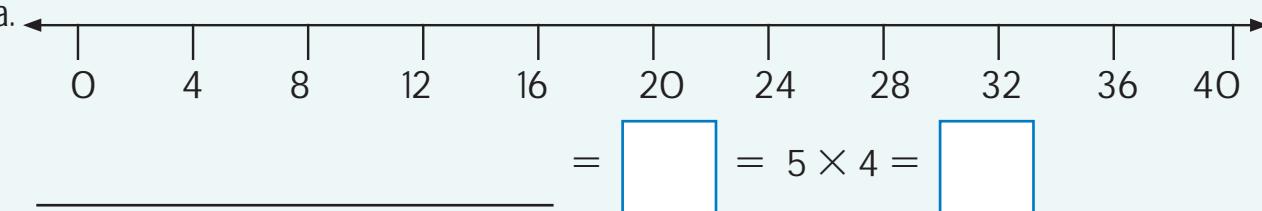
3 wa tihomu ti na _____ wa milenge.	$4 + 4 + 4 = 4 \times 3 =$ <u>12</u>
5 wa tihomu ti na _____ wa milenge.	
4 wa tihomu ti na _____ wa milenge.	
7 wa tihomu ti na _____ wa milenge.	
8 wa tihomu ti na _____ wa milenge.	



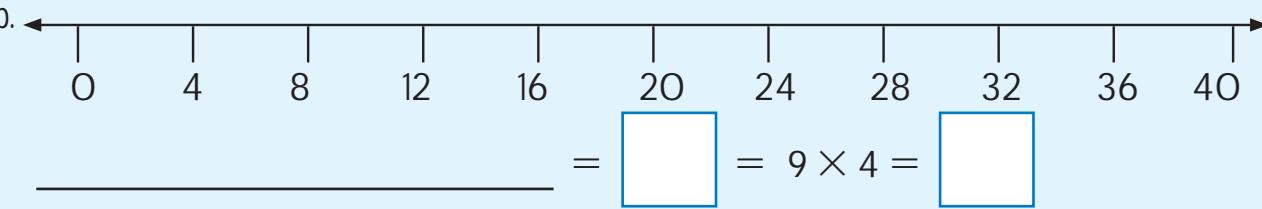
Mindzhati ya mitsengo

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

a.



b.



Teacher:
Sign:
Date:

29

Siku:

Kotara ya 1



Tipatironi eka tinomboro

Tipatironi ta giridi

Xana swirhendzevutana eka giridi yinwana ya 100 swi kombisa patironi yihi ya tinomboro?

Dirowa swirhendzevutana swinwana ku hetisa patironi yinwana na yinwana.

Tsala vito ra patironi yinwana na yinwana.

a. Patironi: _____

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

b. Patironi: _____

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

c. Patironi: _____

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

d. Patironi: _____

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

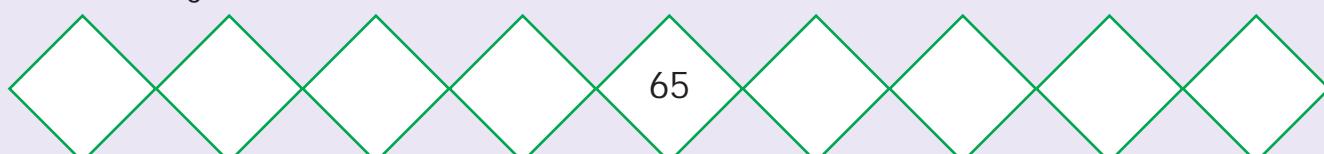


Endla tipatironi ta wena n·wini

- a. Eka patironi leyi ya tinomboro, tinomboro hinkwato i ta ndzingano. Xana tinomboro letinwana hi tihi? Ti nghenise.



- b. Eka patironi leyi ya tinomboro, tinomboro hinkwato i ta fadzenga. Xana tinomboro letinwana ti nga va tihi? Tinghenise.



Xana ti wela kwihi?

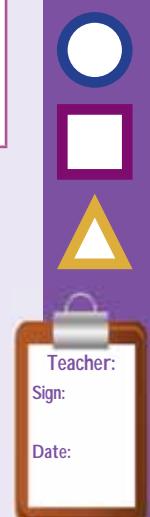


Patironi ya vu-3 na vu-4	Patironi ya vu-3 na vu-5	Patironi ya vu-4 na vu-5
xik. 48		



Elwandle

Thembi u hlengeleta tinkatla ta lwandle ta le xikarhi ka **60 na 70**. U ti hlayela hi vu-3, kutani ku na 1 leyi saleke. Tinomboro leti nga kumekaka i: 61, _____, _____, 70, Loko a ti hlayela hi vu-5, u na 4 leti saleke. Tinomboro leti nga kumekaka i: _____, _____. Xana Thembi u na tinkatla tingani? _____.



11 12 13 14 15 16 17 18 19 20

30a

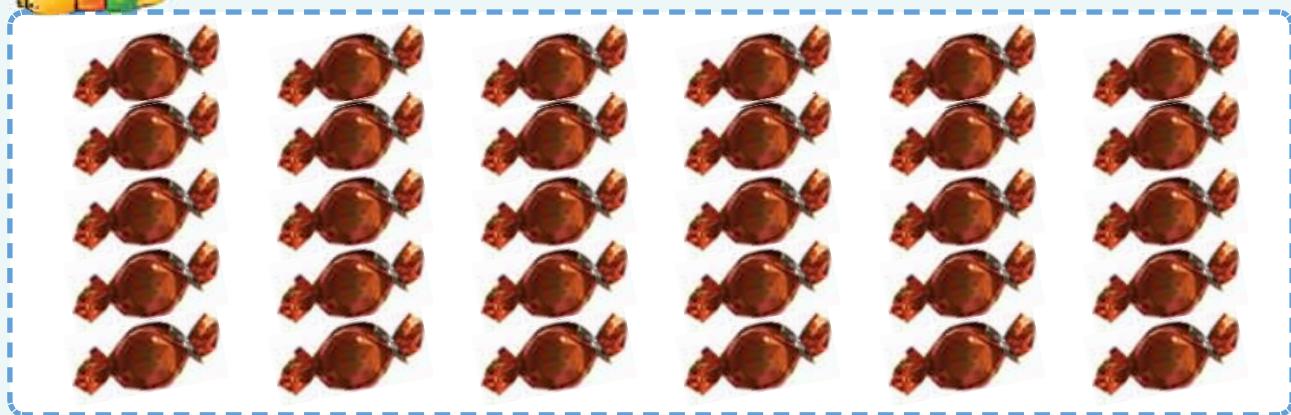
Siku:

Kotara ya 1

Ku avanyisa



Ava swiwitsi



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



Hi nga yi tsala tanihu

$$30 \div 2 = 15$$

- b. Ava swiwitsi exikarhi ka 3 wa vana.



$$\div =$$

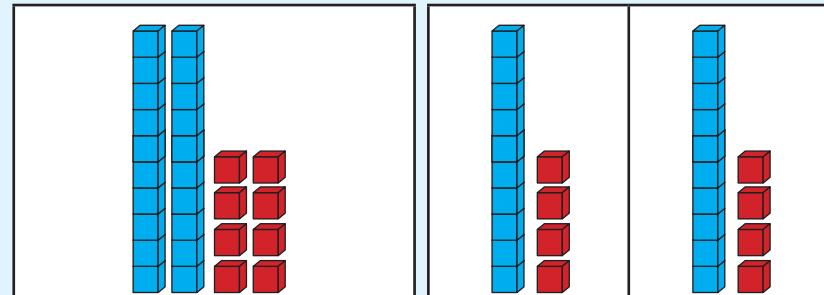
- c. Avanyisa swiwitsi exikarhi ka 5 wa vana.



$$\div =$$



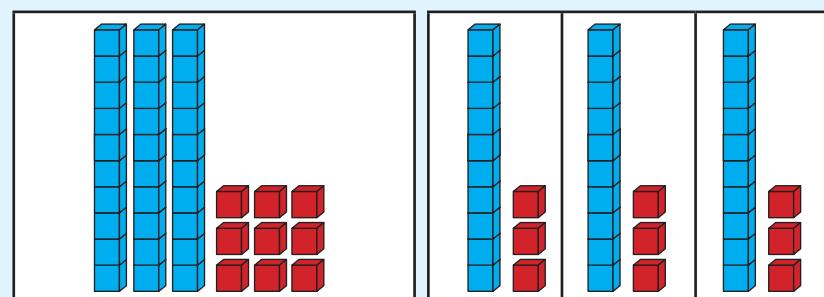
Hi nga tirhisa tibuloko ta tinomboro ku kota ku avanyisa.



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

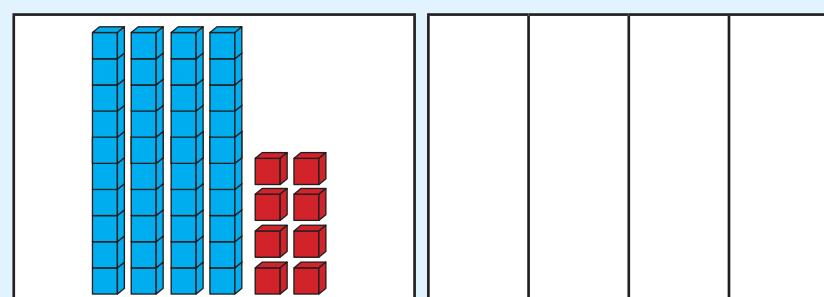
Sweswi endla leti.

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:

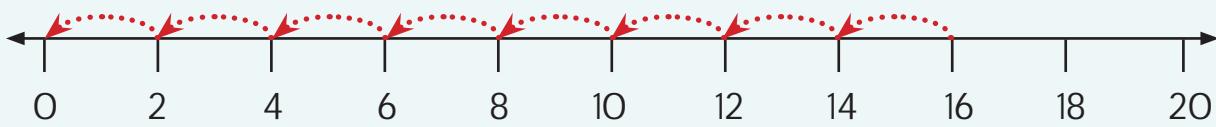
Kotara ya 1

Ku avanyisa (ku yisa emhlweni)



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

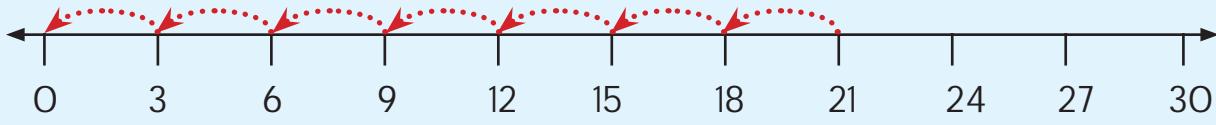
Xikombiso:



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

$$16 \div 2 = 8$$

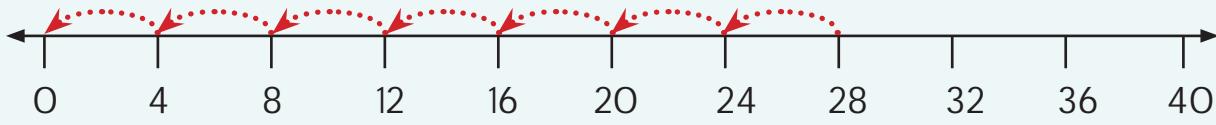
a.



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

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

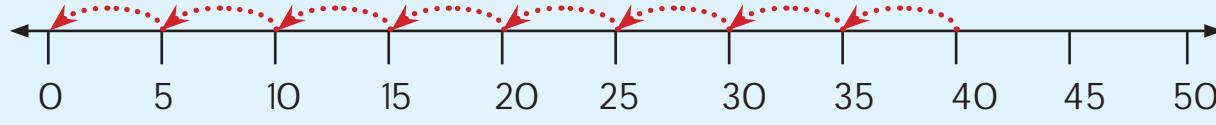
b.



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

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

c.



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

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



Dirowa ndzhati wa mitsengo u kuma nhlamulo.

a. $30 \div 5 =$



b. $22 \div 2 =$



c. $27 \div 3 =$



d. $32 \div 4 =$



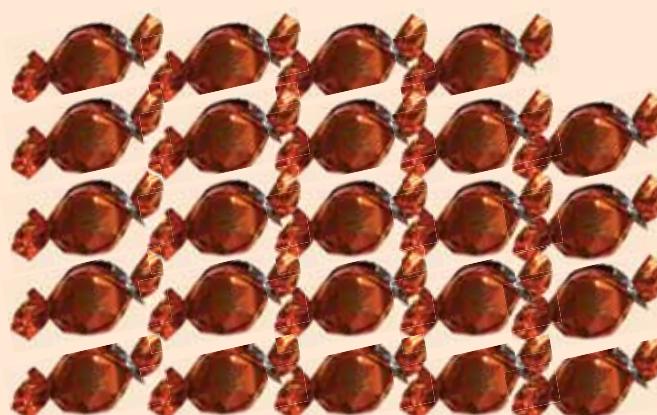
e. $25 \div 5 =$



Ntlhontlho

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

Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.



Teacher:
Sign:
Date:

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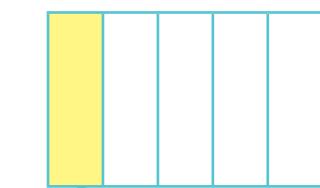
Siku:

Kotara ya 1

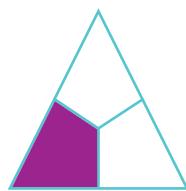
Swiphemu



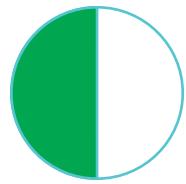
Dirowa mitila ku yelanisa xivumbeko na xiphemu.



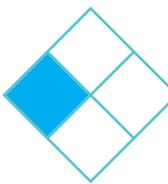
$$\frac{1}{3} \text{ n'we-xa-nharhu}$$



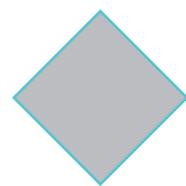
$$\frac{1}{5} \text{ n'we-xa-ntlhanu}$$



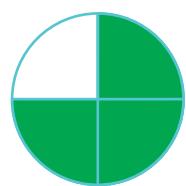
$$\frac{1}{4} \text{ n'we-xa-mune}$$



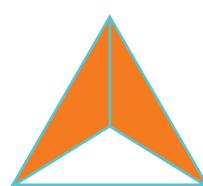
$$\frac{1}{2} \text{ hafu yin'we}$$



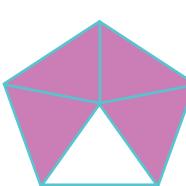
$$\frac{3}{4} \text{ nharhu-xa-mune}$$



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

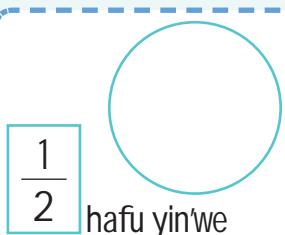


$$1 \text{ xiheri}$$

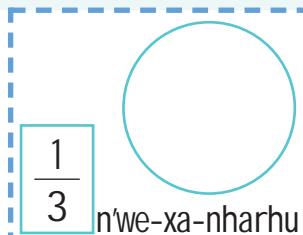


$$\frac{2}{3} \text{ mbirhi-xa-nharhu}$$

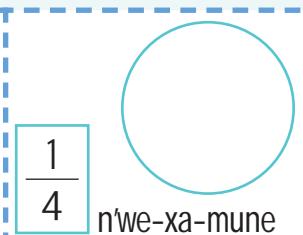
Khalara:



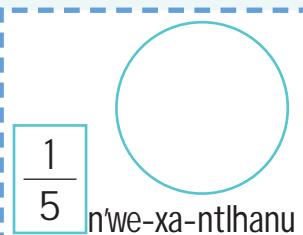
$$\frac{1}{2} \text{ hafu yin'we}$$



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



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

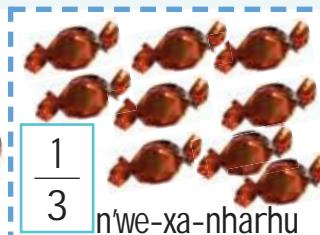


$$\frac{1}{5} \text{ n'we-xa-ntlhanu}$$

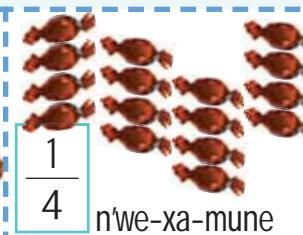
Kombisa ____ ya swiwitsi:



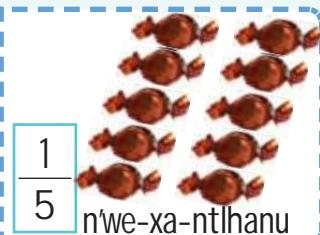
$$\frac{1}{2} \text{ hafu yin'we}$$



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



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



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



Ava swihlayelo exikarhi ka vana vambirhi.

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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 = ___ 														



Teacher:
Sign:
Date:

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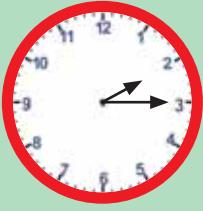
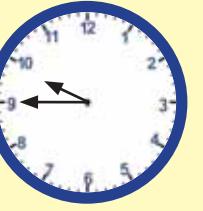
Siku:

Kotara ya 1

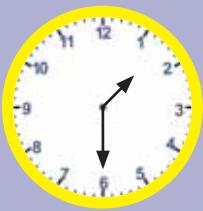
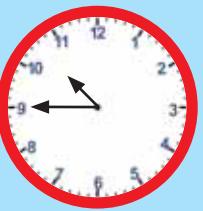
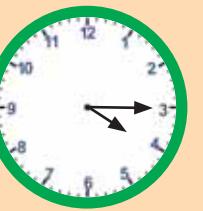


Fambelo ra wachi

Hi nga tsala nkarhi wunwe 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

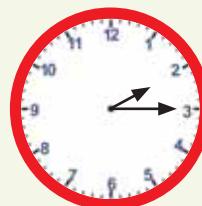
Xana Ben u teka nkarhi wo tanihi kwihi ku fika ekaya?

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

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

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

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

Kambisia. Ringanisa.
Lulamisa.



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

33



Siku:

Thagete ya 200



Ku hlayela tinomboro

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



Tsala tinomboro

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

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



Tsala tinomboro leti siyiweke.



a.

b

87		107
167		
		207
		237



Hetisa

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

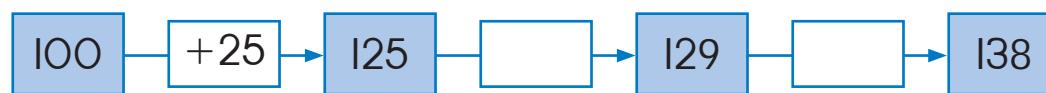
Tsala tinomboro ku suka
eka leyitsongo swinene ku
ya eka leyikulu swinene.



Ku hlayela ku suka eka 100

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

Sunqul



Heto



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? _____

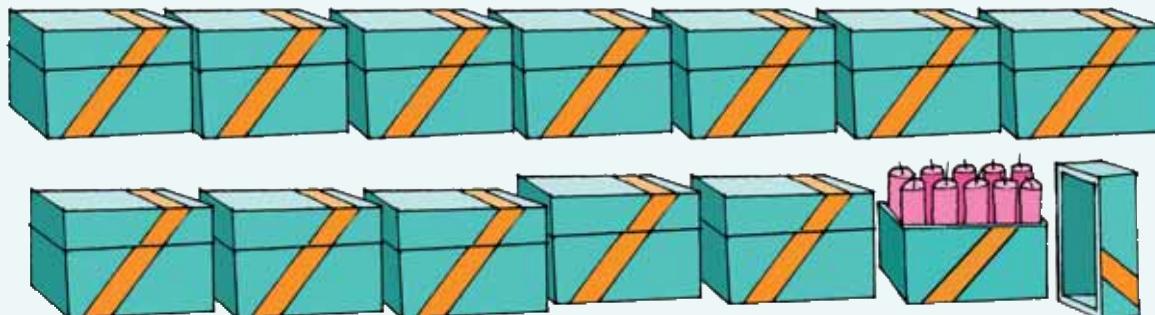
Xana ku na mabokisi mangani eka rhaka yin'wana na yin'wana? _____

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

- c. Xana i mabokisi mangani ya lavekaka eka:

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



35a

Siku:

Kotara ya 2



Ku veka vukhume kun'we na ku byi hambanisa

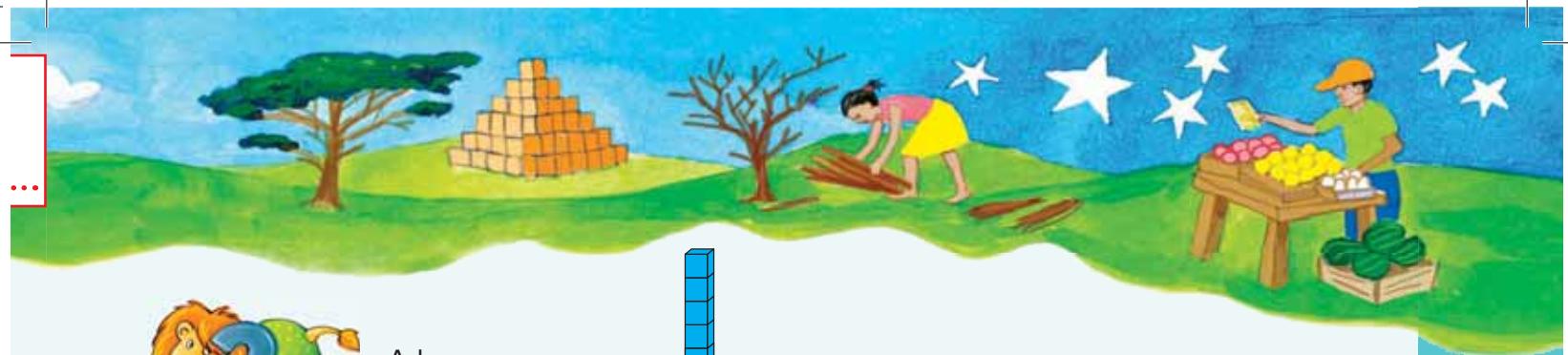
Ku veka vukhume kun'we loko hi hlanganisa

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

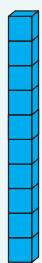
vu-100	vu-10	vu-1

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

--	--	--



A hi ringete.



$$\text{=} \quad \text{na}$$



$$= \textcircled{○}$$

Xikombiso: $82 + 34$



$$100 + 20 + 6 = 126$$

b. $65 + 52$

c. $76 + 63$

d. $86 + 65$



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

Hi nga kombisa vukhume bya ntsevu hi ndlela leyi.	Kumbe tanahi vukhume bya ntllhanu na vun'we bya khume.	Susa vukhume bya ntllhanu na vun'we bya ntllhanu. Vun'we bya ntllhanu 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.

Xana u buracha meno
ya wena kangani hi
siku?



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.



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:

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

$$\begin{array}{r} 9 \\ \quad \quad \quad \\ \hline \end{array}$$

Utsale hi ndlela leyi:

$$\begin{aligned} 50 + 70 + 6 + 3 \\ = 50 + 70 + 9 \\ = 120 + 9 \\ = 100 + 20 + 9 \\ = 129 \end{aligned}$$

Uhlanganisa vu-l kutani a veka ehansi khadi ra vu-9.

Utiva leswaku: $50 + 70 = 120$.

$$\begin{array}{r} 100 \\ \quad \quad \quad \\ \hline \end{array} \quad \begin{array}{r} 20 \\ \quad \quad \quad \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \quad \quad \quad \\ \hline \end{array}$$

Uteka khadi ra **vudzana**, ra vu-20 na ra vu-9

ku endla nomboro ya 3 wa tidjiti.

Tumi u tiva leswaku tibuloko ti tirha hi ndlela yihi.

U endla $56 + 73$ hi ndlela leyi:

$$\begin{aligned} 50 + 6 + 70 + 3 \\ \swarrow \quad \searrow \\ 120 + 9 \\ = 129 \end{aligned}$$



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.



Teacher:
Sign:

Date:

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. $86 - 62$

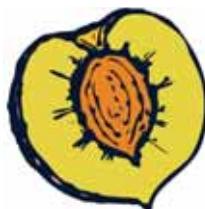
d. $85 - 69$



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?



Teacher: Sign:
Date:

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

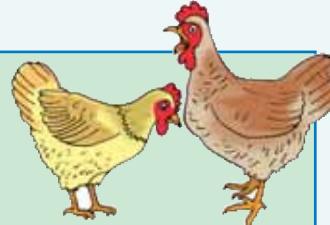


Musa u xavisa mathikithi. U na 92 ya mathikithi yo sungula hi wona. U na 67 lama saleke.

Xana Musa u xavisile mathikithi mangani ku fika sweswi?



Ku titloveta kun'wana



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

Maendlele ya Gugu

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



Maendlele ya Aakar

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



Xana wa swi tiva leswaku hikwalaho ka yini?

- 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



Teacher:
Sign:
Date:

39

Siku:

Kotara ya 2

Hlayela no khakhuleta



Ku kuma xiphemu

Tsala tinomboro leti siyiweke.

a.

100	
	27

b.

100	
39	

c.

100	
43	

d.

100	
56	

e.

200	
140	

f.

200	
	110

g.

200	
135	

h.

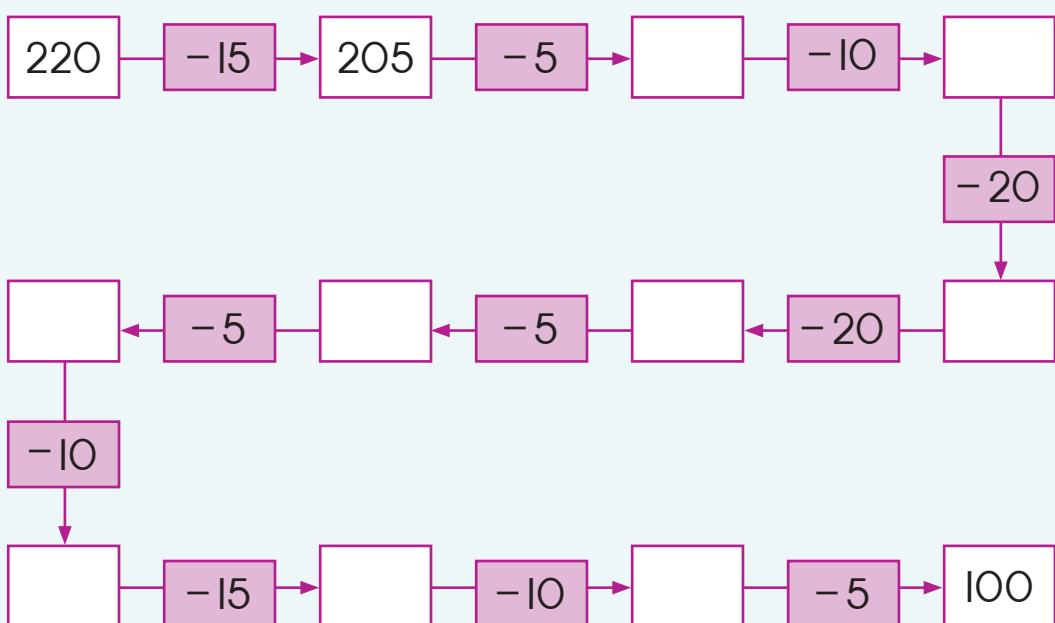
200	
	120



Ku susa ku suka eka 220 ku ya eka 100

Susa tinomboro eka bokisi ra pinki nkarhi wun'wana na wun'wana.

Hi ku endlele yo sungula.



Hi leyi ndlela
yo kambisia
tinhlamulo ta
wena!

Sungula eka
100! Tirha u
ya endzhaku eka
220.

Kambe eka
nkarhi wa sweswi,
hlanganisa
tinomboro!

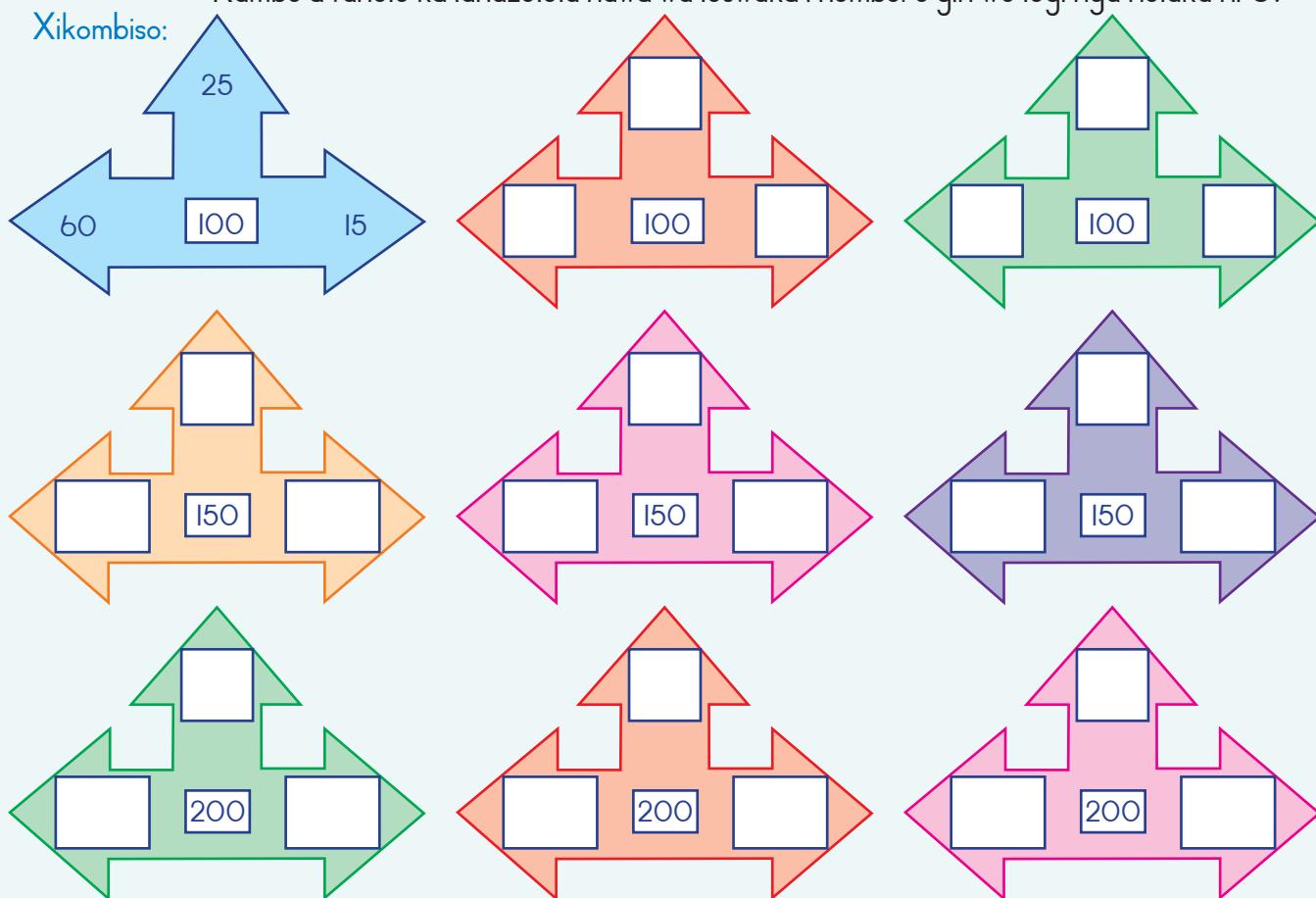


Mindyangu ya nharhu



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 O.

Xikombiso:



Ku hundza hi 50 no va ehansi hi 50

Tsala tinhlamulo eka rixaxa ra vumbirhi.

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



Teacher:
Sign:
Date:

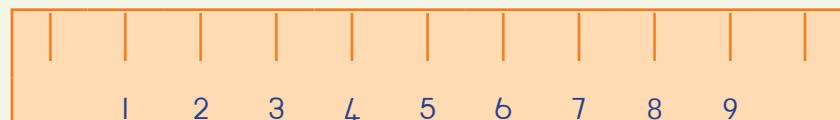
40



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.

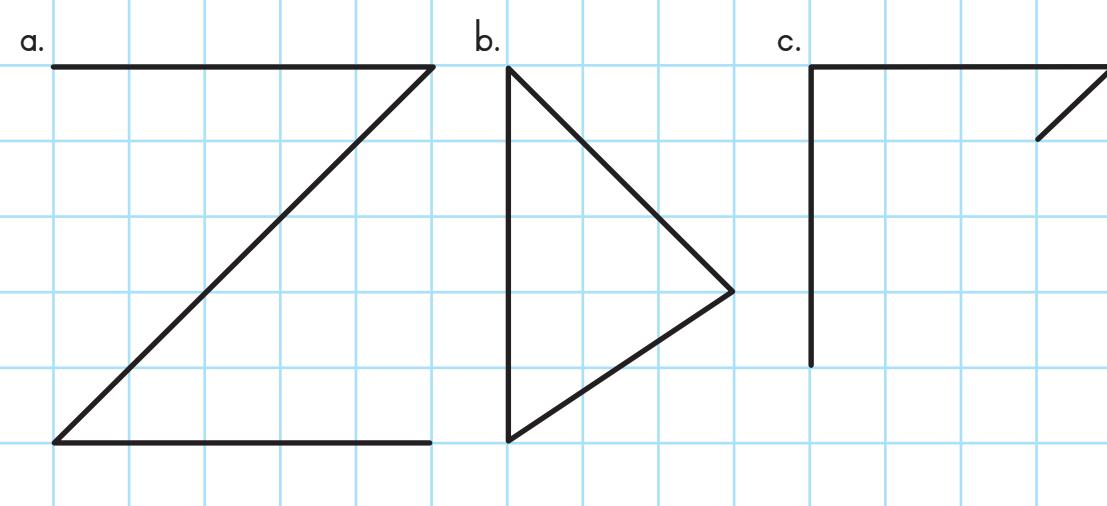
Tirhula tin'wana a ti kombi O ku fana na leyi nga eka pheji leyi.

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.

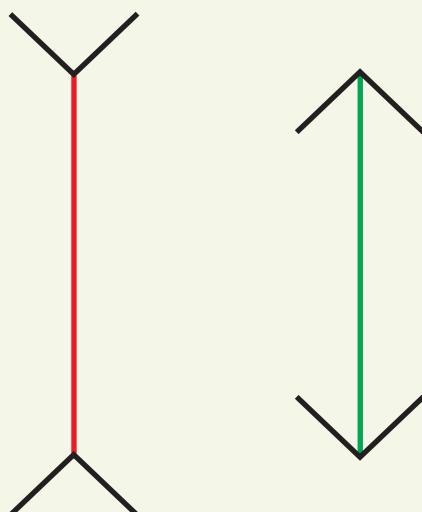
a. —————	<input type="text"/> cm	d.	<input type="text"/> cm
b. —————	<input type="text"/> cm	e. —————	<input type="text"/> cm
c. —————	<input type="text"/> cm	f. —————	<input type="text"/> cm



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.





Siku:

.....

Kotara ya 2

Thagete ya 300



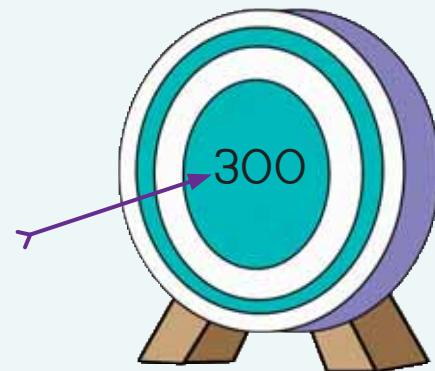
Ku hlayela no tsala vu-200

Hlayela ku suka eka 201 ku fika eka 300.

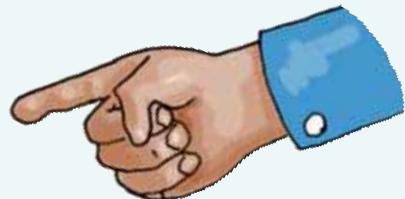
Kombetela loko u karhi u hlayela u ya emahlweni.

Kutani tata tinomboro ta wasi ku sungula.

Tsala tinomboro letin'wana hinkwato.



201					207			210
211								
221								
231								
							249	
				254				
					265			
								280
273								
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
 1 2 3 4 5 6 7 8 9 10

42

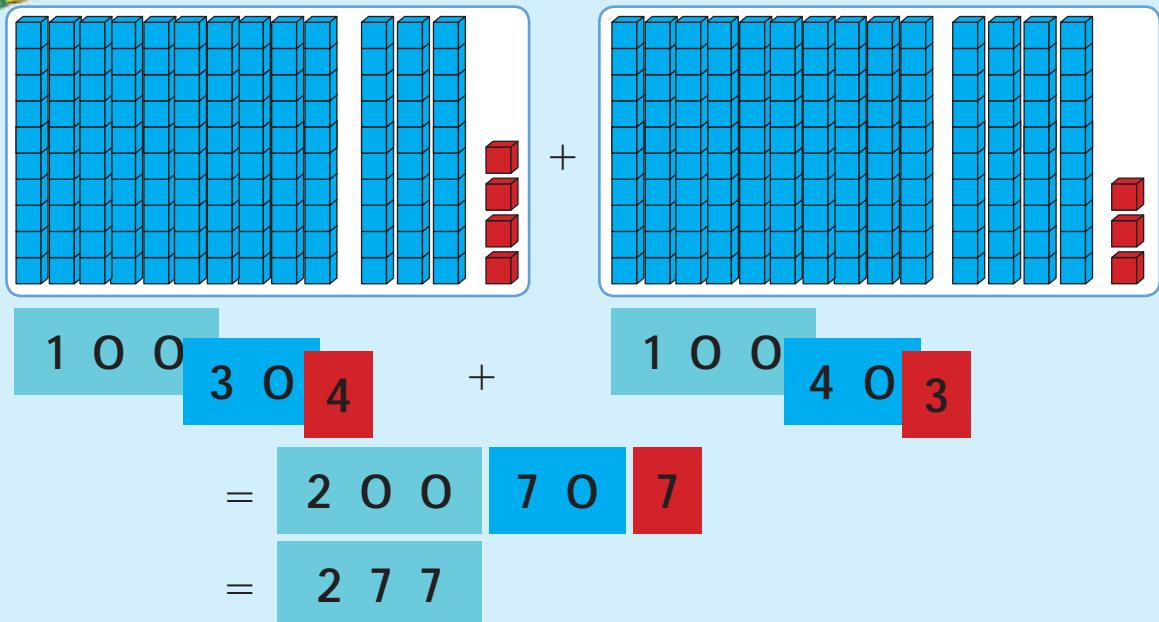
Siku:

Kotara ya 2

Ku hlanganisa no susa hi vu-100



Ku tirhisa tibuloko ku hlanganisa



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

$$\begin{aligned}
 &\cancel{1}32 + \cancel{1}23 \\
 &= 200 + 50 + 5 \\
 &= 255
 \end{aligned}$$



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. $288 - 199$



43

Siku:

Kotara ya 2

Thagete ya 400

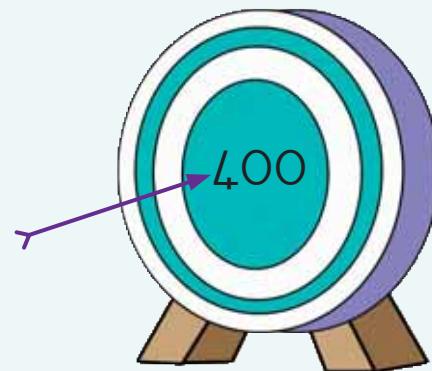


Ku hlayela no tsala vu-400

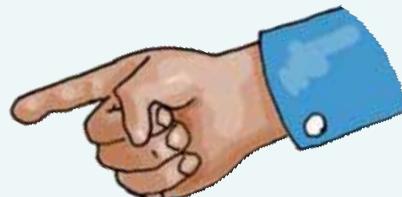
Hlayela ku suka eka 300 ku fika eka 400.

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

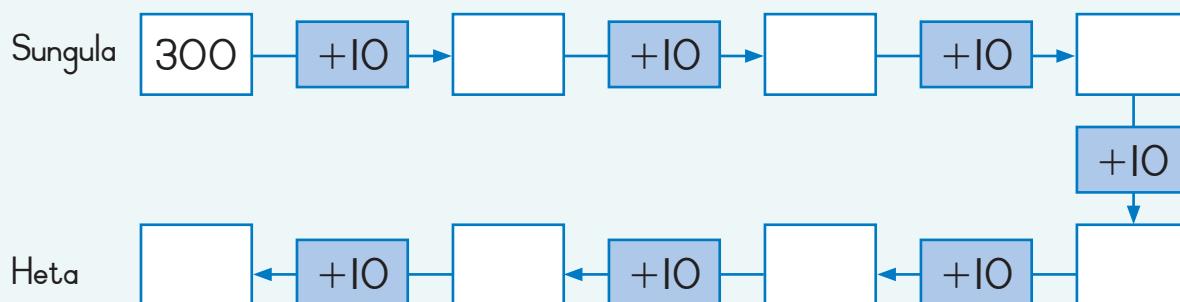
100

1 2 3 4 5 6 7 8 9 10

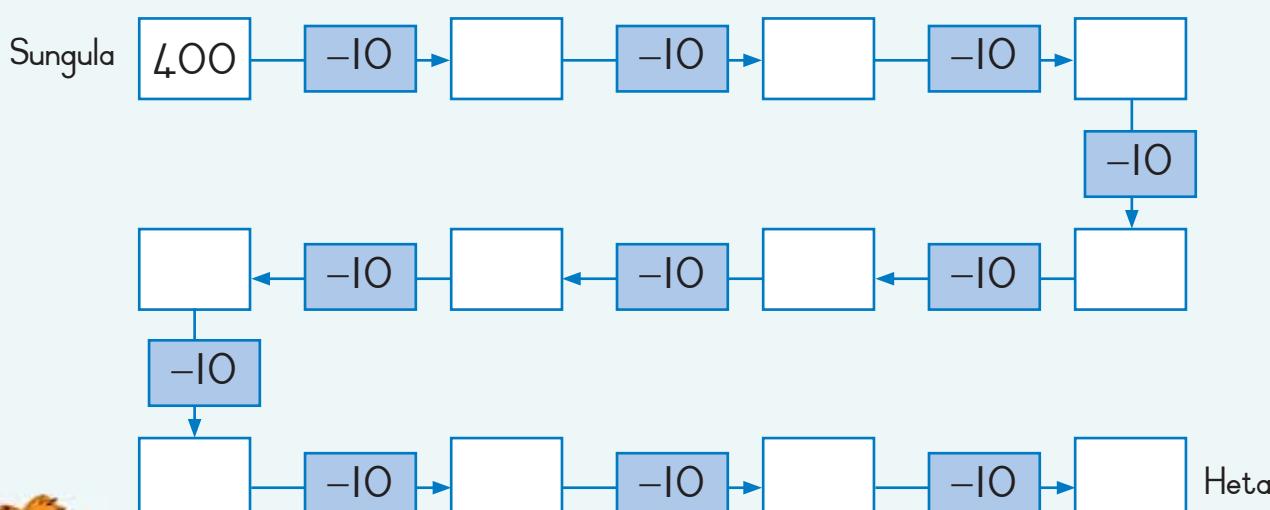


Hlayela emahlweni na hi xindzhaku

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



- b. Hlayela ku suka eka 400 hi vukhume.



Tsala tanihi nomboro yin'we.

$300 + 20 + 4 = \underline{\hspace{2cm}}$

$300 + 10 + 5 = \underline{\hspace{2cm}}$

$300 + 50 + 3 = \underline{\hspace{2cm}}$

$300 + 70 + 7 = \underline{\hspace{2cm}}$

$300 + 60 + 2 = \underline{\hspace{2cm}}$

$300 + 90 + 9 = \underline{\hspace{2cm}}$

$300 + 80 + 1 = \underline{\hspace{2cm}}$

$300 + 40 + 8 = \underline{\hspace{2cm}}$

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

 , , , , , , ,



Teacher:
Sign:
Date:

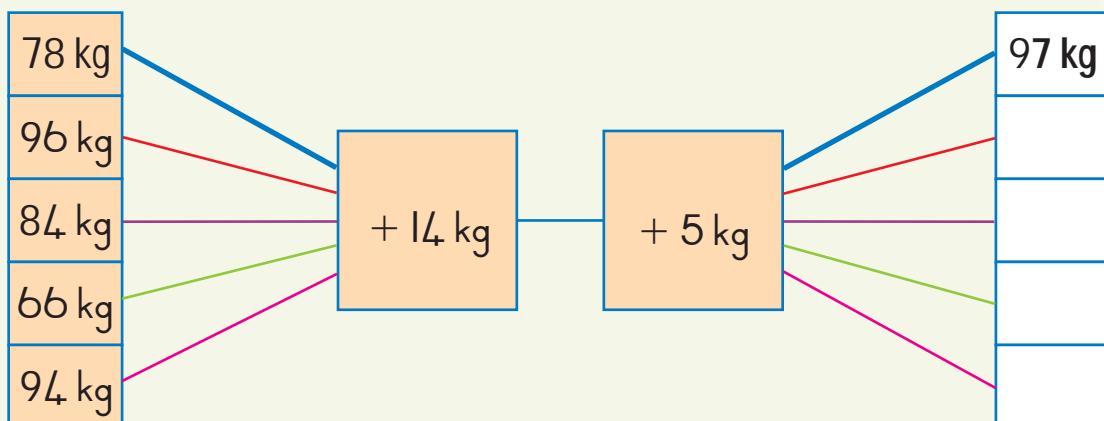


Kotara ya 2



Nomboro yo hlawuleka

Hlanganisa u tlhela u tsala tinhlamulo.



Yisa eka khume ra le kusuhi kutani u hlanganisa!

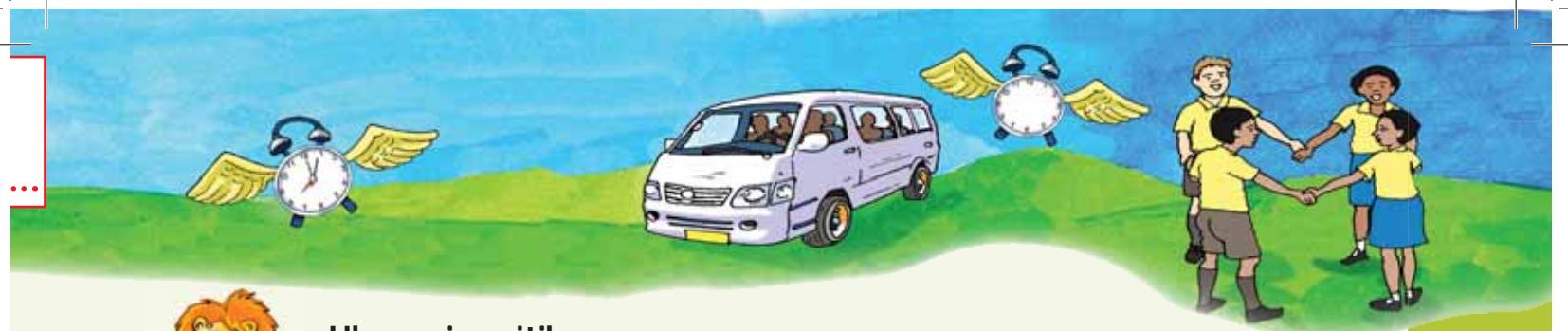
Ehleketa khwatsi!

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.

Teacher: Sign:
Date:

45

Siku:

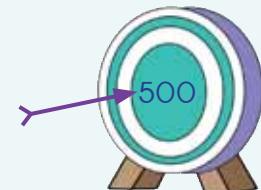
Kotara ya 2



Thagete ya 500

Ku hlayela no tsala

								400
401				405				410
411								420
	422				427			
		434						
			446					
					458			
462							470	
		473			477			
481							490	
							499	500



- a. Hlayela ku suka eka 400. Vula tinomboro loko u ri karhi u hlayela u ya emahlweni.
- b. Tsala tinomboro leti siyiweke eka giridi.
- c. Tsala tinomboro leti landzelaka ta 9 endzhaku ka 500.

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

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

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

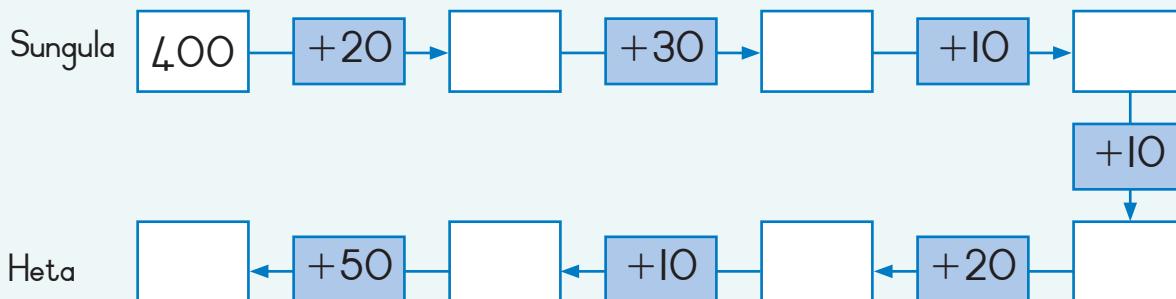
- e. Hlayela hi vu-5. Tsala 8 wa tinomboro leti landzelaka hi **patironi ya vu-5**.

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

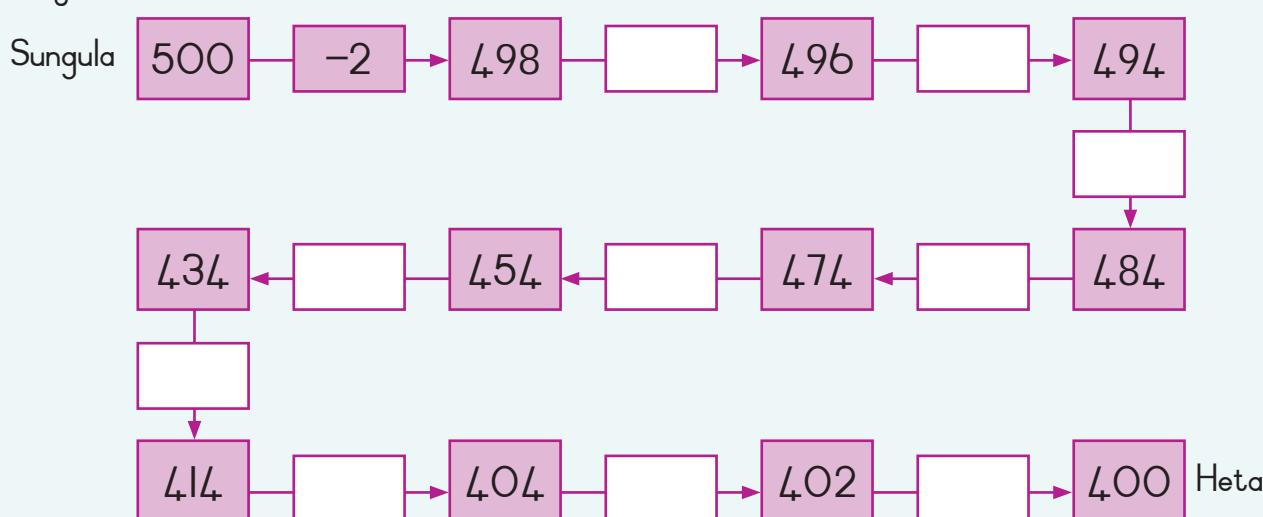


Xana ku cinca hi kwihi?

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

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

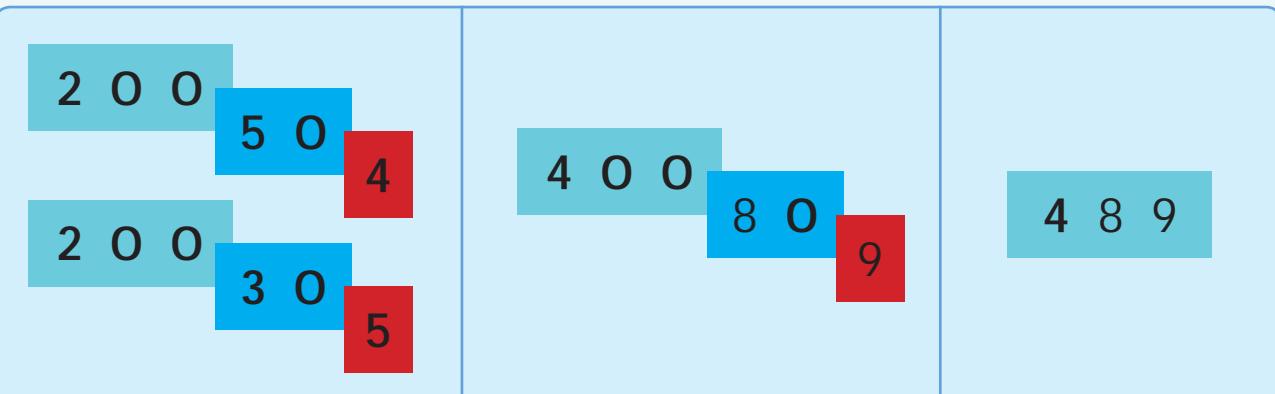


46

Siku:

Kotara ya 2

Ku hlanganisa no susa kun'wana



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

a. $245 + 231$



Maendlele ya Busi

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



Maendlele ya Tumi

$$\begin{aligned}
 &\cancel{2}4\cancel{5} + \cancel{2}3\cancel{1} \\
 &= 400 + 70 + 6 \\
 &= 476
 \end{aligned}$$

b. $278 + 136$

c. $265 + 148$



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

a. $476 - 324$

Maendlele ya Busi

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



Maendlele ya Tumi

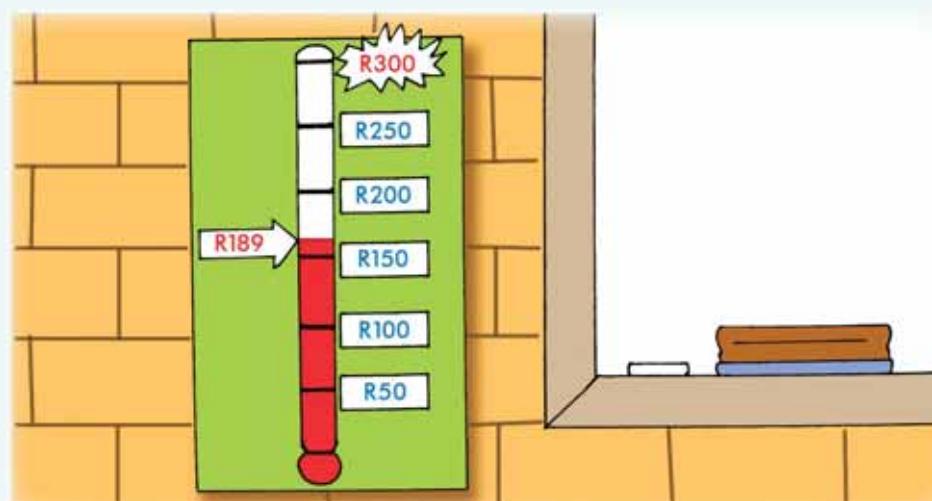
$$\begin{aligned} &\cancel{4} \cancel{7} 6 + \cancel{3} \cancel{2} 4 \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$

b. $489 - 456$

c. $482 - 161$



Ku fikelela thagete



Xiyisisa xifaniso.

Xana ku laveka mali muni ku kota ku fikelela thagete?

R



Teacher:
Sign:
Date:

47

Siku:

Kotara ya 2



Lota vutshila bya wena

Ntshava ya xihundla

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

A	B	C	D	E	F	G	H	I	J	K	L	M
I	2	3	4	5	6	7	8	9	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
$50 + 50 + 50 + 100 - 200 - 45 = \square$		
$1 + 2 + 7 + 10 + 7 + 1 - I4 = \square$		
$60 - 30 + 50 + 20 - 50 - I5 - 20 = \square$		
$3 + 2 + 7 + 1 + 2 + 1 + 3 = \square$		
$5 + 3 + 30 = 4 + 2 + I2 + \square$		
$100 - 5 - 70 = 20 + \square$		
$36 + 44 - 60 - 2 = \square$		
$IO + I5 = I4 + \square$		
$2 + 1 + I4 + 9 + I4 = 25 + \square$		
$I \times 2 \times 2 \times 2 \times 2 = \square$		
Vito ra ntshava i		



Languta! Ehleketa no hlamula!

• * ⚡ ⚡ • * ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡ ⚡

I 2 3 4 5 6 7 8 9 10 II 12 13 14 15

a. Xana nomboro ya 16 yi ta va ya xivumbeko xihi?

Fungha (✓) eka lexi nga xona.

* • ⚡

Xana nomboro ya 18 yi ta va ya xivumbeko xihi?

Fungha (✓) eka lexi nga xona.

* • ⚡

Xana nomboro ya 23 yi ta va ya xivumbeko xihi?

Fungha (✓) eka lexi nga xona.

* • ⚡

b. Nomboro ya 50 yi ta va *.

Hi swona kumbe A hi swona?

Nomboro ya 100 yi ta va •.

Hi swona kumbe A hi swona?

Nomboro ya 28 yi ta va ⚡.

Hi swona kumbe A hi swona?



Hi yahi leyi nga tala?

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

Kumbe ku amukela R150 hi siku
ra I Mhawuri.

Kombisa matirhele ya wena.

Kambisia. Fananisa. Lulamisa.



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

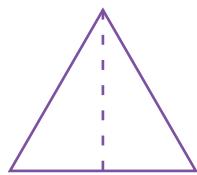
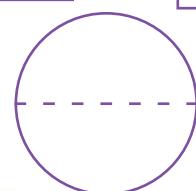
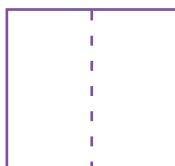
48

Siku:

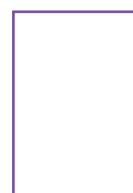
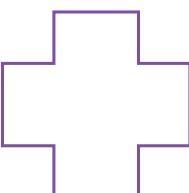
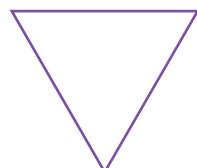
Kotara ya 2

Ndzingano

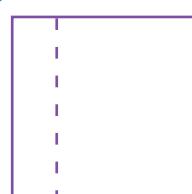
Xana u lemuka yini hi swivumbeko leswi?



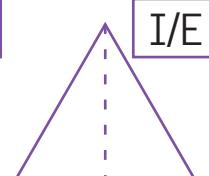
Dirowa ntila wa ndzinganiso eka xivumbeko xin'wana na xin'wana?



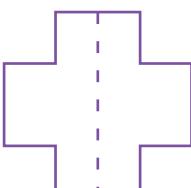
Xana ntila wa mathonsi i ntila wa ndzingano kumbe a hi wona? Tsala xirhendzevutana eka Ina (I) kumbe E - e (E)



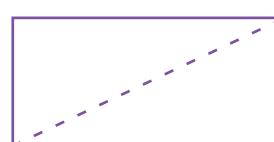
I/E



I/E



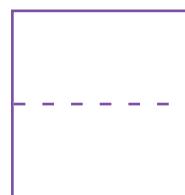
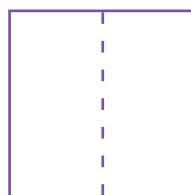
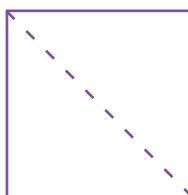
I/E



I/E



Xana lowu i ntila wa ndzinganiso? Hikwalaho ka yini?

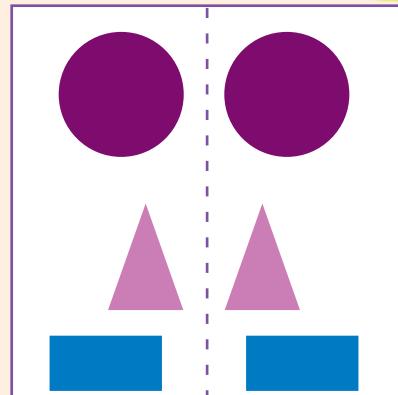




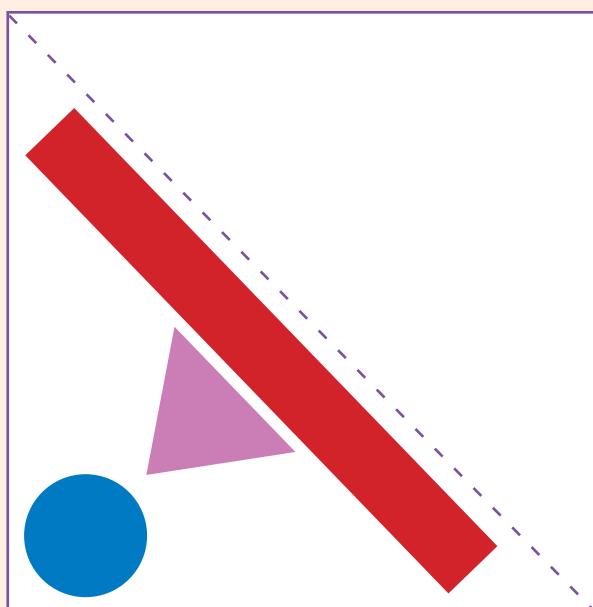
Dirowa swivumbeko ku endla leswaku xif aniso xi
va na ndzingano.

Hi ku endlele xo sungula.

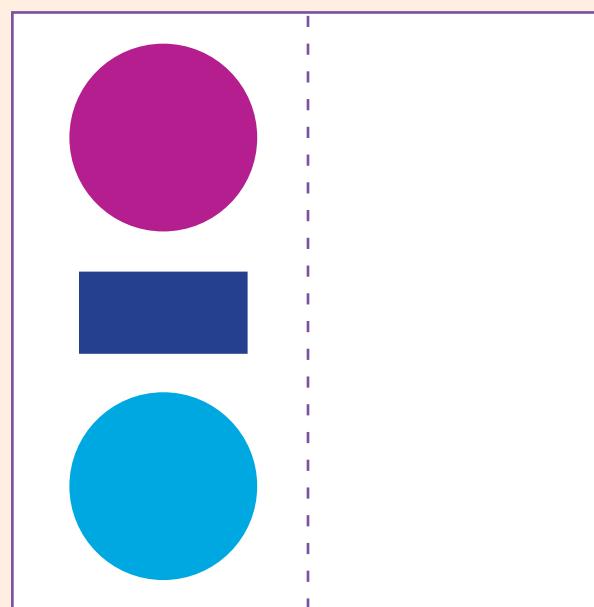
a.



b.



c.



Tumbuluxa
khpete ya wena
ya ndzingano
hi ku tirhisa
swivumbeko.



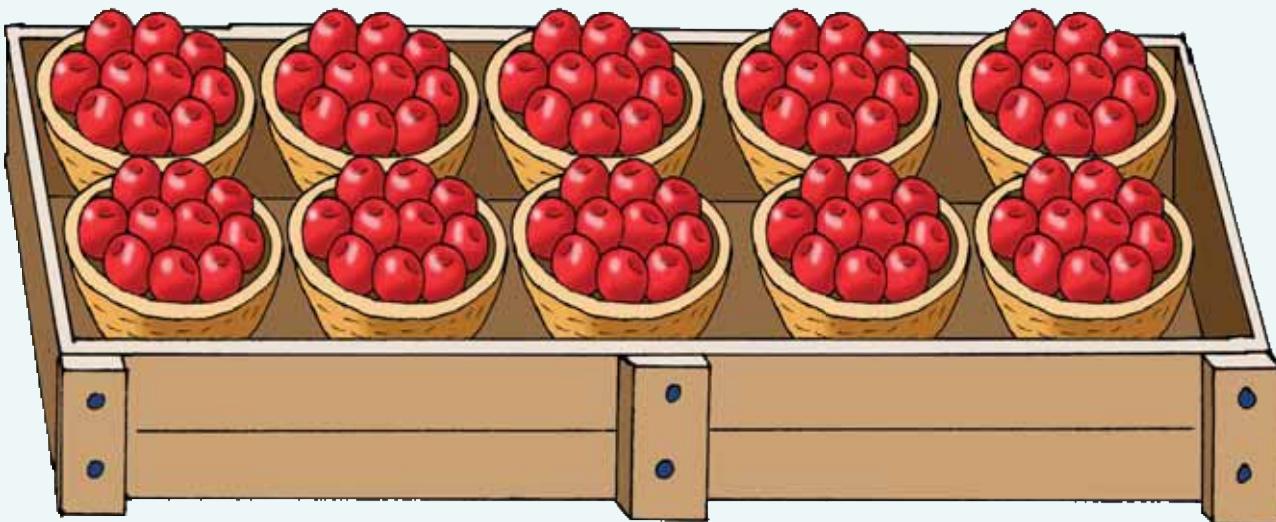
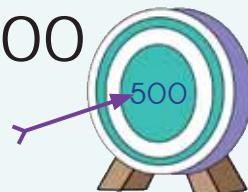
49

Siku:

Kotara ya 2



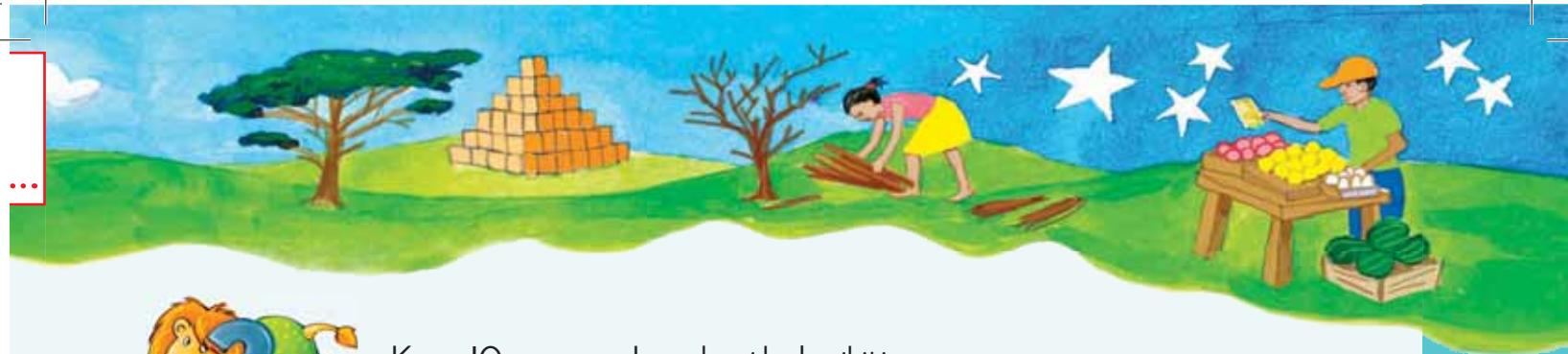
Ku hlayela maapula



Hetisa u tlhela u andzisa

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

I khireti yi khoma 100 wa maapula.	2 wa tikhireti ti khoma _____ wa maapula.
3 wa tikhireti ti khoma _____ wa maapula.	4 wa tikhireti ti khoma _____ wa maapula.
5 wa tikhireti ti khoma _____ wa maapula.	2 wa tikhireti ta hafut i khoma _____ wa maapula.

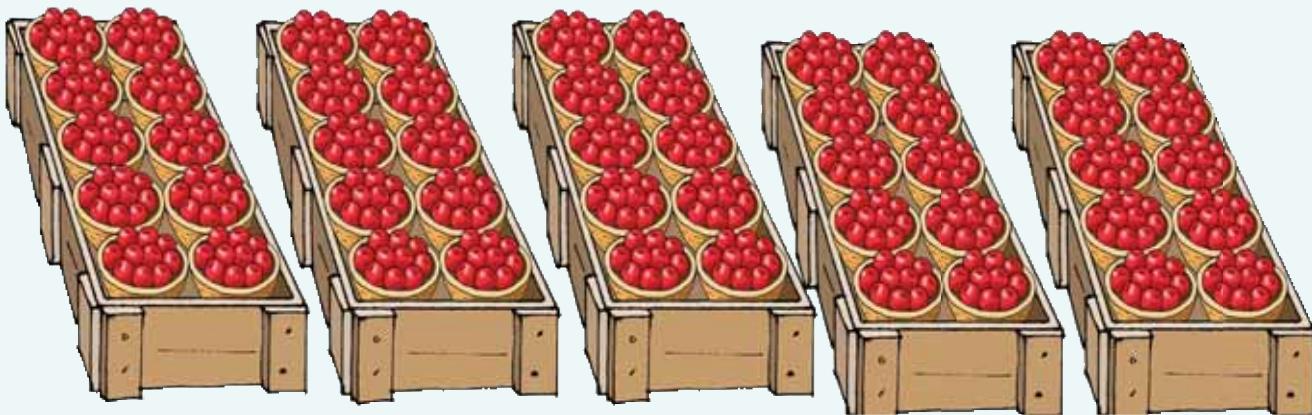


Ku na 10 wa maapula endzeni ka basikit.

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.

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

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

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

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



Teacher:
Sign:
Date:

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

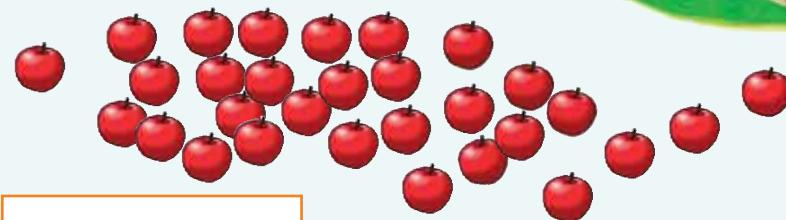
$\square \div \square = \square$

$\square \times \square = \square$

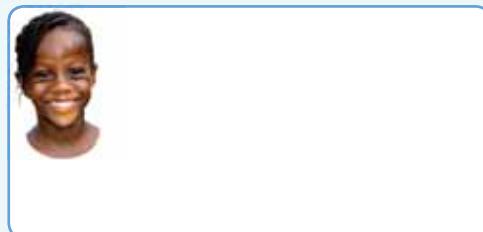




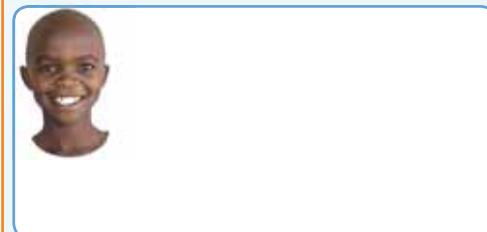
b.



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, _____
-------------------	-------------------	-------------------



5|



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.

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

b.

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



Hlayela hi vumbirhi

- a. Hi yihi nomboro leyi ngħenaka 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, __, __
------------------	------------------	------------------



Teacher:

Sign:

Date:



Pheyivha hi tithayele



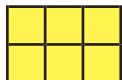
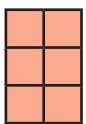
Ku kunguhata xirhapa

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.

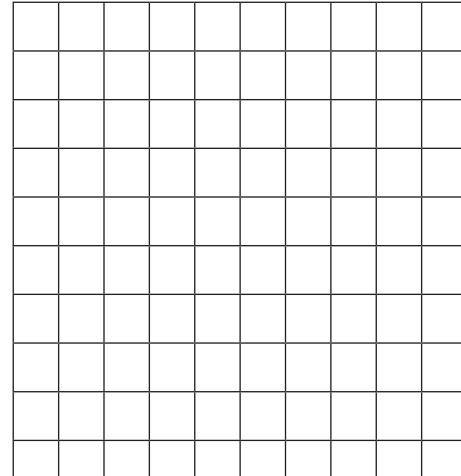
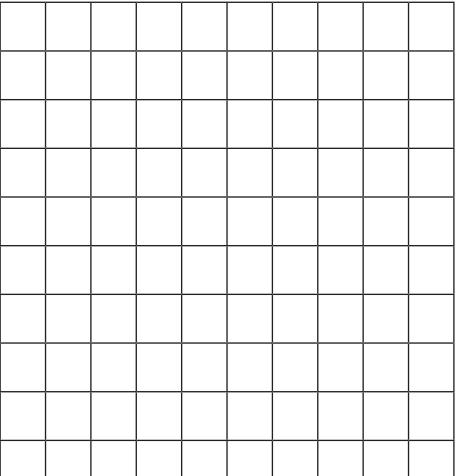


Ndzi endla 1 rixaxa hi 6 wa tithayele.	Ndzi nga endla 2 wa tinxaxa hi 3 wa tithayele eka rixaxa.	Ndzi nga endla 3 wa tinxaxa hi 2 wa tithayele eka rixaxa rin'wana na rin'wana.
 $6 \times 1 = 6$	 $3 \times 2 = 6$	 $2 \times 3 = 6$

Sweswi i nkarhi wa wena!

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

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

8 wa swikwere	9 wa swikwere
	



Veketela 12 wa tithayele

Thabo u na tithayele ta 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



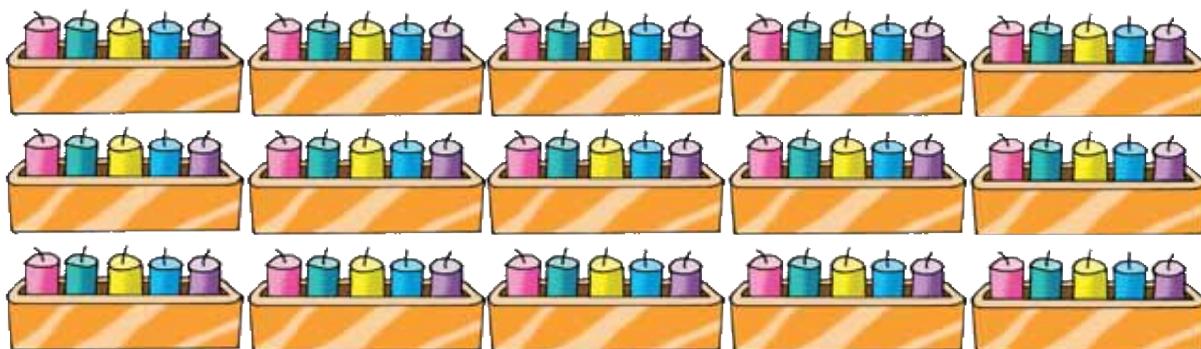
Ku tiva vu-5 bya wena

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 hlengelata tikhoyini ta R5



Vana va hlengelata 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									



Ku tirha hi nkarchi



Dirowa minkarchi

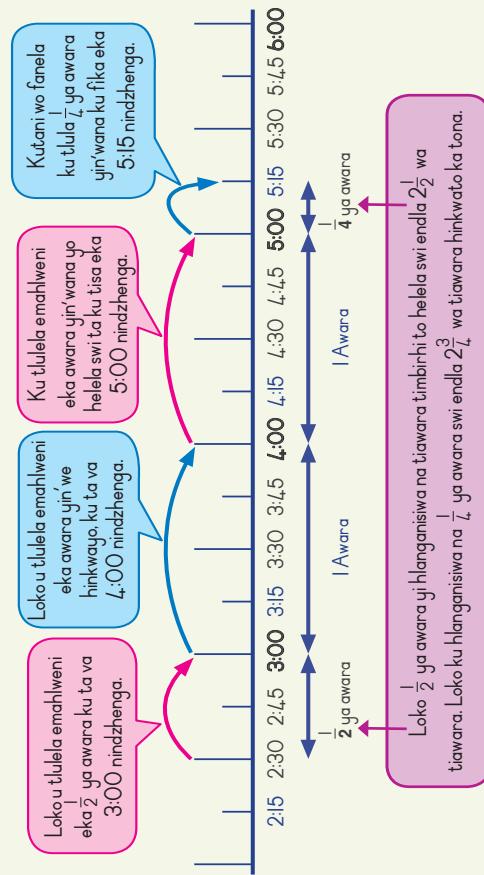
				12:45	6:15	4:30
Hafukubile awara ya 5	Kotaraku ya eka awara ya khumen'we	Kotarakubile awara ya 12				



Xiphiqo xa nkarchi

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

Hinga tirhisaxaxamelo wa mikarchi
ku swi tirha. Vekela rintiho ra wena eka
2:30, nkarchi lowu ku ngawana sweswi.



Kambuisa Ringanisa. Lulamisa.

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



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

Usuka hi **17:15** nindzhenga.

Xana u va a endzile nkarchi wo tanhi kwih?



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

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

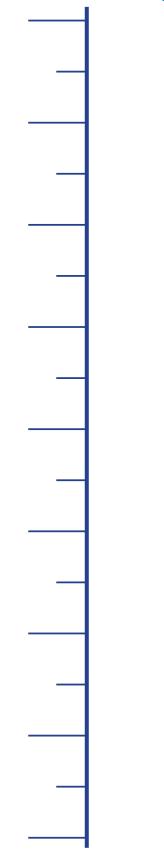
Xana u va a fambole nkarchi wo tanhi kwih?



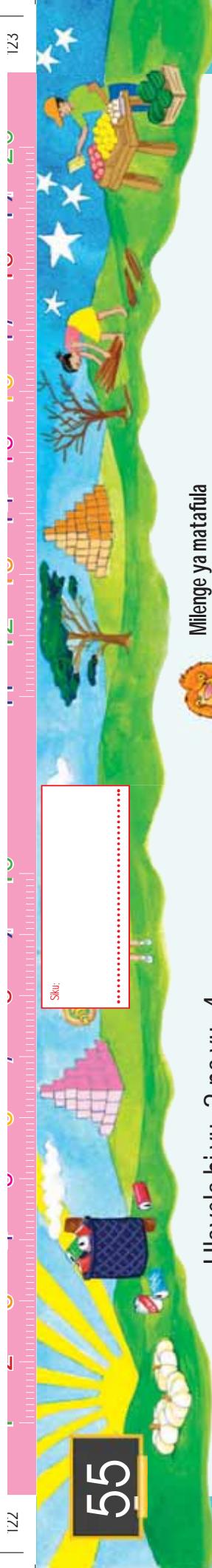
- c. Tumi u sunqulaku hlaya hi **13:15** nindzhenga.

Uhetra hi **14:45** nindzhenga.

Xana Tumi u hlaya nkarchi wo tanhi kwih?



Teacher:
Sign:
Date:



Hlayela hi vu-3 na vu-4

Mapoto ya 3 wa milenge



Hanganisa kutani u
tsalanhamulo

- a. Xana ku na mapoto mangani erixaxeni? _____

- b. Xana ku na milenge yingani erixaxeni? _____

- c. Xana ku na tinxaxa tingani ta mapoto? _____

- d. Xana ku na milenge yingani hinkwao ka yona? Kombissa leswi u swi
tirhiseke xiswona.

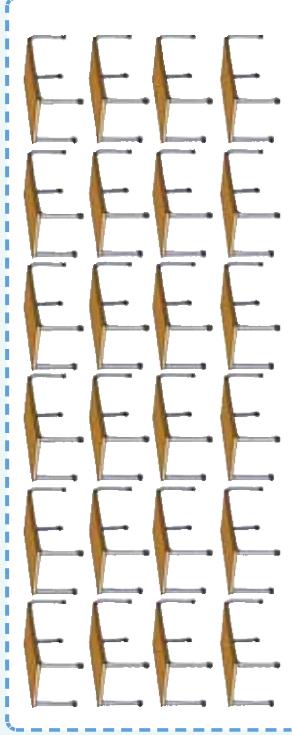
Fungha (\checkmark) swivulwa swa tinomboro laha hansi leswi kombisaka ntsetseng.
 $2 \times 7 = \square$ $3 \times 7 \times 3 = \square$ $3 \times 4 \times 2 = \square$ $21 \times 3 = \square$

Xana ku na milenge yingani?

Ehleketa hi xihatla
Ehleketa khwatsi.

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

Milenge ya matafula



- a. Xana ku na matafula mangani erixaxeni? _____

- b. Xana ku na milenge yingani erixaxeni? _____

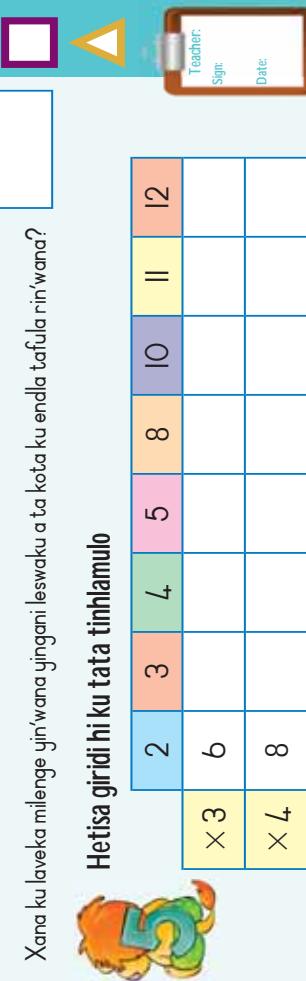
- c. Xana ku na tinxaxa ta matafula tingani? _____

- d. Xana ku na milenge yingani hinkwao ka yona? Kombissa leswi u swi
tirhiseke xiswona.



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

U endlie 48 ku fikela sweswi. Xana a ngä kota ku endla matafula mangani? _____



1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

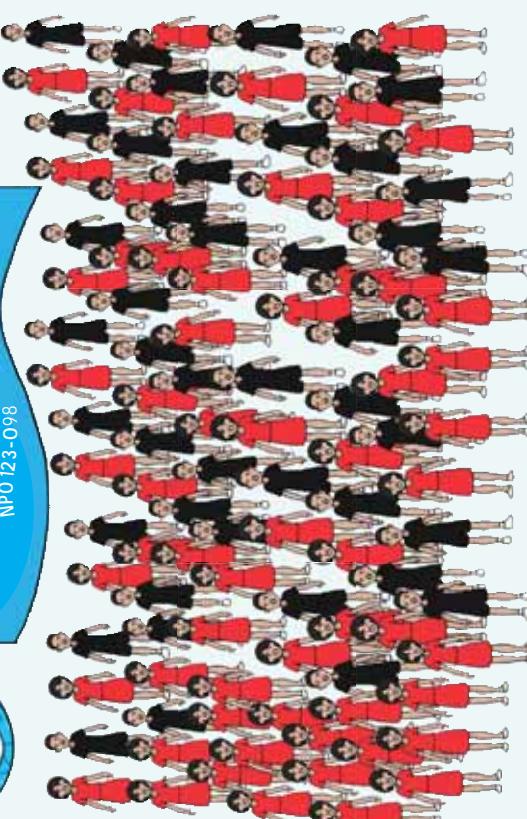
N'wana unwe, nkumba wunwe!

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

Hlayela hi vu-50



Nkumba wo nyika ntshemblo

Kufumeta vana va hina
NPO 123-098

Vana hinkwavo exafanisweni va amukela nkumba.

Xana ku na vana vangani? _____

Pimanjisa	Hlayela	Fananisa

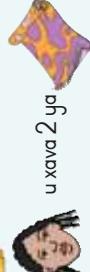
Xana ku na vana vangani? _____ Xana ku na vanhwanyana vangani? _____



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



ya xava 20 ya



Vahakela

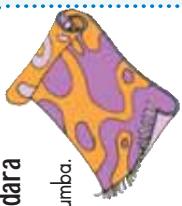
5	ya R50 = R250	10	1 ya R50 = R500
4	ya R50 = R _____	15	1 ya R50 = R _____
3	ya R50 = R _____	6	1 ya R50 = R _____
7	ya R50 = R _____	12	1 ya R50 = R _____
8	ya R50 = R _____	9	1 ya R50 = R _____

Xana swi ta teka nkarti wo tanhi kwhi? Tir hisa khalendara

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

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

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

Teacher:
Sign:

Date:

Swiphemu: Tihafu na tikotara

Avanyisa tibolo hiku ringana exikarhika mabokisi.



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

Langata swifaniso kutani u hamula swivutiso.



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



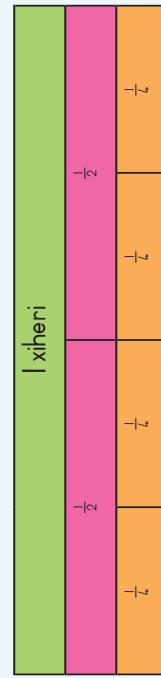
<input type="text"/>
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<input type="text"/>

Xiya switiripi swa swiphemu.



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

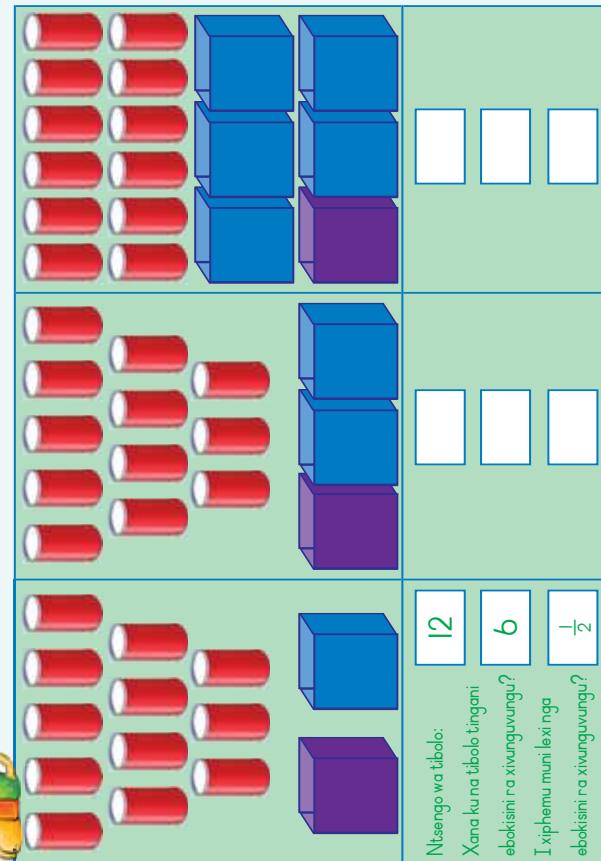
b. Languta tiddujigamu kutani u tsala xiphemu xa xiyenge lexi dzwhatiweke



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.



$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{6}$

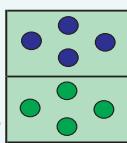
$\frac{1}{3}$

$\frac{1}{6}$

$\frac{1}{6}$

$\frac{1}{6}$

Languta swifaniso kutani u hlamula swivutiso.

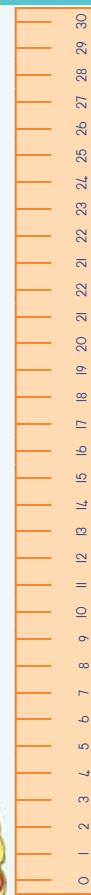


Xana u hlayele
swirhendzevutana swingani?

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

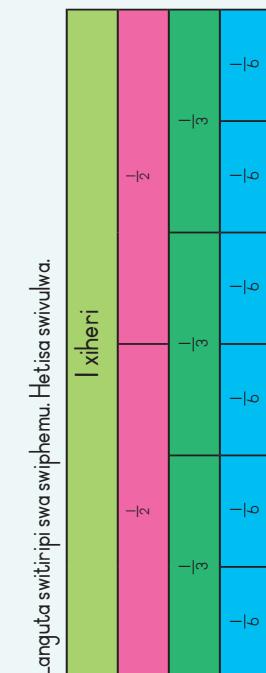
- Xana $\frac{1}{6}$ ya swirhendzevutana i yini?
Xana $\frac{2}{6}$ ya swirhendzevutana i yini?
Xana $\frac{3}{6}$ ya swirhendzevutana i yini?
Xana $\frac{4}{6}$ ya swirhendzevutana i yini?
Xana $\frac{5}{6}$ ya swirhendzevutana i yini?

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



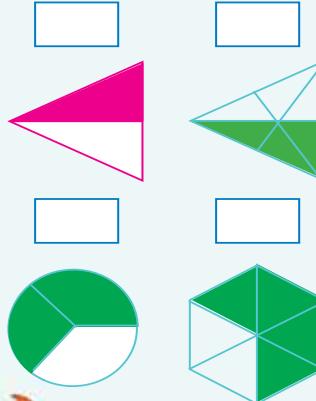
- Kombisa hafu jin'we erhuleni. Leswi swi ringana na ____ cm.
- Kombisa n'we-xa-nharhu erhuleni. Leswi swi ringana na ____ cm.
- Kombisa n'we-xa-ntsevu erhuleni. Leswi swi ringana na ____ cm.

Languta switiripi swa swiphemu. Hetisa sivulwa.



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

Tsala xiphemu xa xiyengje lexi dzwihatweke.



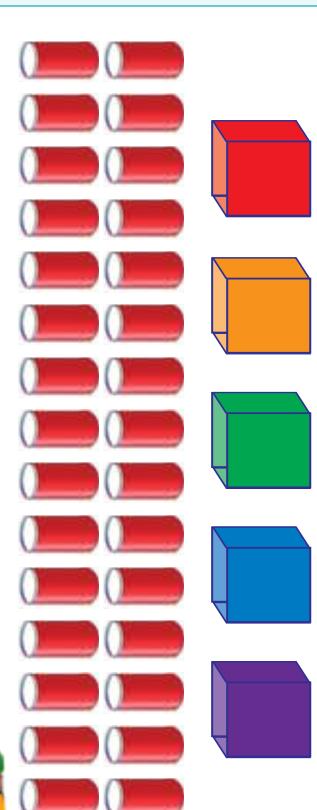
Bana xirhendzevutana eka
xiphemu lexikulu.

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

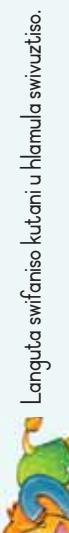


Swiphemu: xa-ntlhānu

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 10 wa swithinana.
- Eka $\frac{3}{5}$ ya mabokisi ku na 15 wa swithinana.
- Eka $\frac{4}{5}$ ya mabokisi ku na 20 wa swithinana.
- Eka $\frac{5}{5}$ ya mabokisi ku na 25 wa swithinana.



Languta swifaniso kutani u hlamula swivutiso.

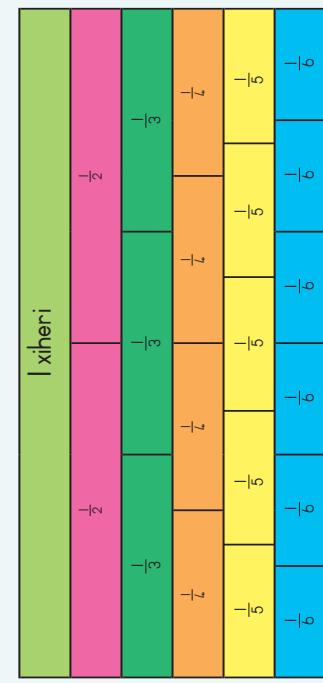


- Xana kuna tichokoleti tingani ebokisini?
- nwe-xa-ntlhānu ya tichokoleti yi ringana na
- mbirhi-xa-ntlhānu ya tichokoleti yi ringana na
- nharchu-xa-ntlhānu ya tichokoleti yi ringana na
- mune-xa-ntlhānu ya tichokoleti yi ringana na
- ntlhānu-xa-ntlhānu ya tichokoleti yi ringana na
- Hiisiku ra lndzi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

Khalara switħihiwa swo pima.



Languta switħiġi swa swiphemu kutani u hlamula swivutiso.



Bana xirhendzutana eka leyikulu kumbe leyintsongo

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

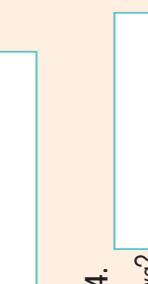
Teacher:

Sign:

Date:



Smeswi endla silindara hi phepha ra xitsemiwa xa 4.
Xana tinghole ta silindara i to ringanelu kumbe i ta njihikwa? _____



Nhwanyana u languta _____ ya mudko.
Waruna u languta _____ na mudko.
Xinyenjana xi languta _____ ka mudko.

emahlweni
ehenla

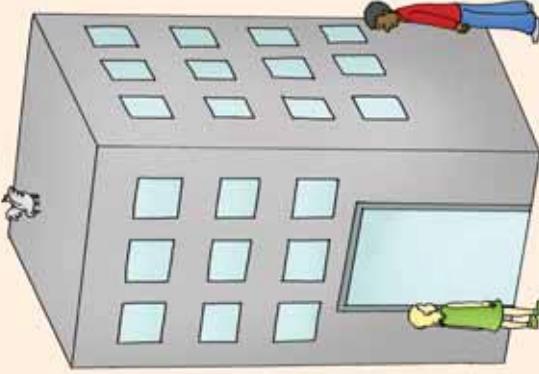
tlheloo
ehenla



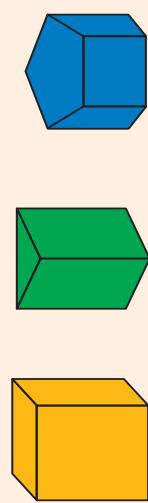
Teacher:
Sign:
Date:



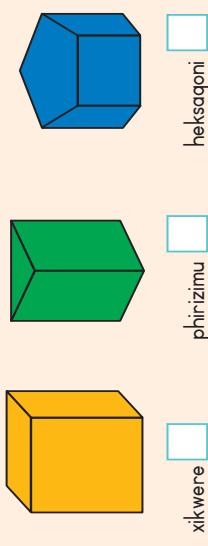
Tirhisu marito lama nglaha hansi ku hetisa swivulwa.



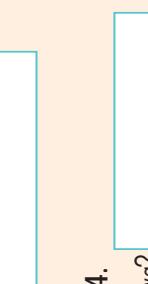
Lama i mabokisi hinkwawo.
Tirhisu mapphepha ya switsemiwa swa 3 na 4 ku swi endla.



Vundillo bya xiphosphherhele byin wana na bujin wana byi vitaniwa emahlweni.
Danarhetu xikandza lexin wanjiyelka emahlweni ya mabokisi. Xana u
danarhetile swikandza swingani eka:

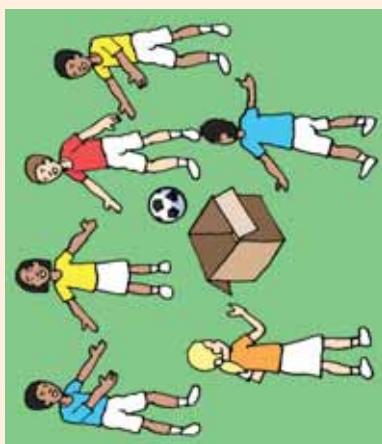


xikvere **phirizimu** **heksagoni**



Smeswi endla silindara hi phepha ra xitsemiwa xa 4.
Xana tinghole ta silindara i to ringanelu kumbe i ta njihikwa? _____

Swilo swa 3-D

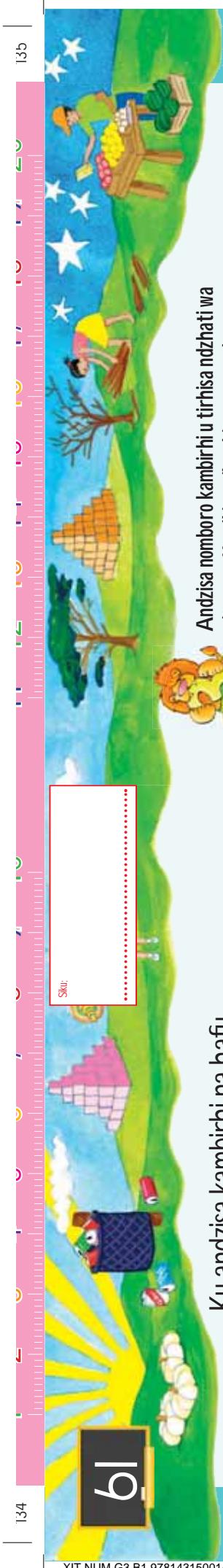


Hayela mabokisi
(tiphinzimu)
Hayela tibolo
(swinhendzevutana)
Hayela tisilindara.

Kotara ja 2

60





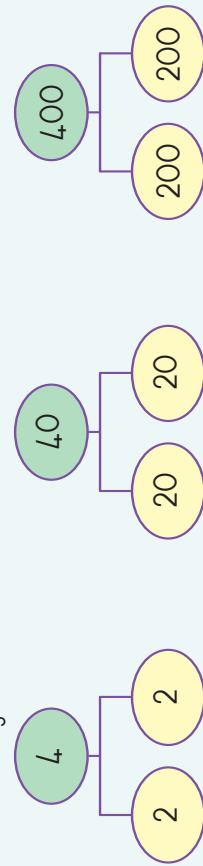
Ku andzisa kambirhi na hafu

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

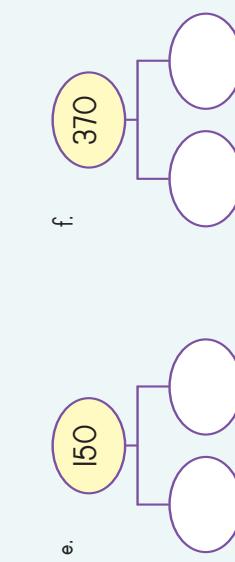
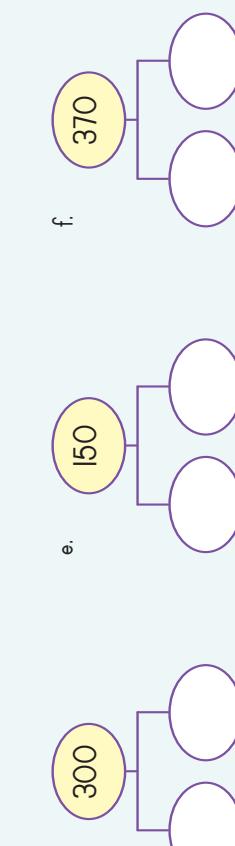
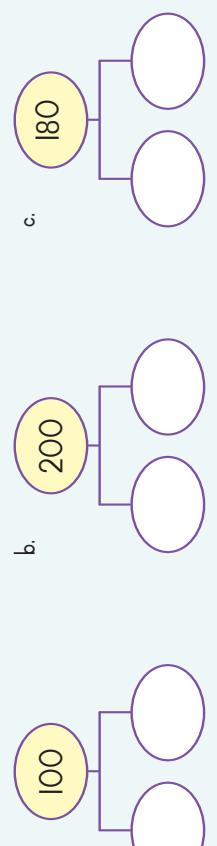
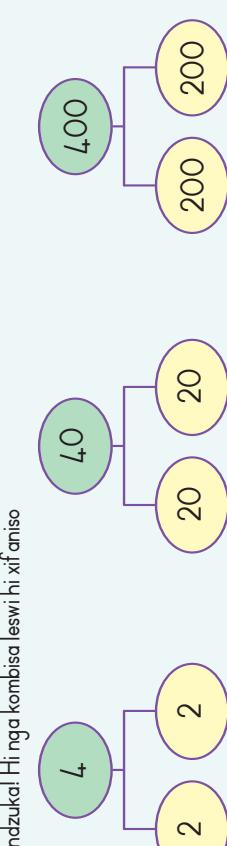
4 i 2 i andzisiwe kambirhi
40 i 20 i andzisiwe kambirhi
400 i 200 i andzisiwe kambirhi

Kotara ja 2

Tsundzukal Hi ng a kombisa leswi hi xifaniso



Ku kuma thi hafu



Andzisa nomboro kambirhi u tirhisia ndzhatiwa mitsengo. U nyikine xikombiso xo sungua.

$$\boxed{Andzisa 40 \text{ kambirhi}} + \boxed{40} = \boxed{80}$$

$$\boxed{Andzisa 60 \text{ kambirhi}} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{Andzisa 150 \text{ kambirhi}} + \boxed{\quad} = \boxed{\quad}$$

$$\boxed{Andzisa 200 \text{ kambirhi}} + \boxed{\quad} = \boxed{\quad}$$

Hetisa leswi landzelaka



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

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

Teacher:
Sign:
Date:

1 2 3 4 5 6 7 8 9 10

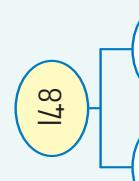
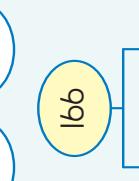
11 12 13 14 15 16 17 18 19 20

b2

Kotara ja 2

Ku andzisa kambirhi na ku hafula kunwana

Ku kuma ku andzisa kambirhi kumbe tihafu

- a.  73
- b.  148
- c.  96
- d.  134
- e.  166
- f.  89

Ku hlayisela bayisikiri

Peter u hlayisa R25 hi vhiki kulkota ku xava
bayisikiri. Xana u fanele ku hlayisa mali eka mavhiki
mangan? Nhlamu:

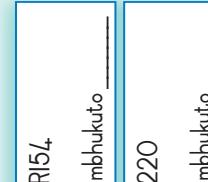
Mbhukuto R450
Nxavo wo hungutia
hi hafu: A wu
ri R900



Ku va eka mbhukuto

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

T sala nxavo wa mbhukuto etheld ka xixaviswa xin'wana na xin'wana.

- a.  Mikumba R190
Nxavo wa mbhukuto _____
- b.  Malakani R154.
Nxavo wa mbhukuto _____
- c.  Xikhigelo R54.
Nxavo wa mbhukuto _____
- d.  Switulu R220
Nxavo wa mbhukuto _____

Xana i tirhandi tingani?

Musau lava hembe. O vanu hafu yantsengontsena.



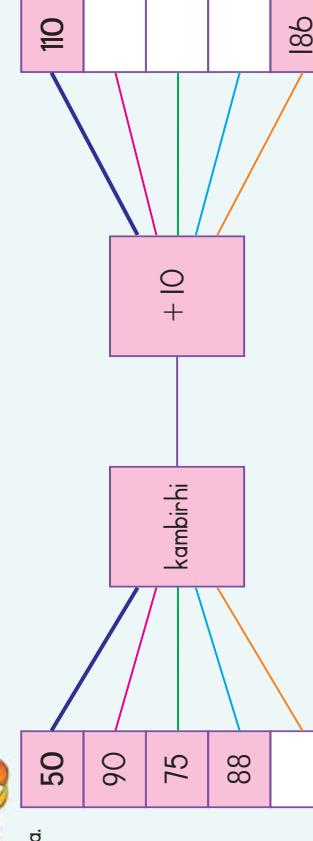
R97 Rhoko ya Phindi yi kambirhi eka nxavo wa ley.



R97 Xanarhoko ya Phindi yi durha mali muni? R _____

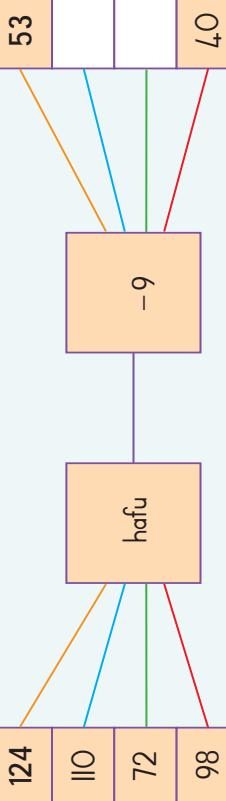
Xana i yini xinghenaka? Xana i yini xi humaka?

Lanzelela xikombiso. Tata tinomboro leti sijweke.



a.

b.



a.

b.

11 12 13 14 15 16 17 18 19 20

139

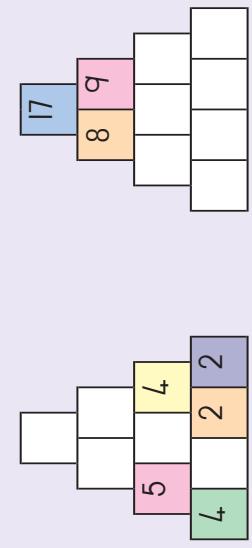
64

Ku tiphina hi metse

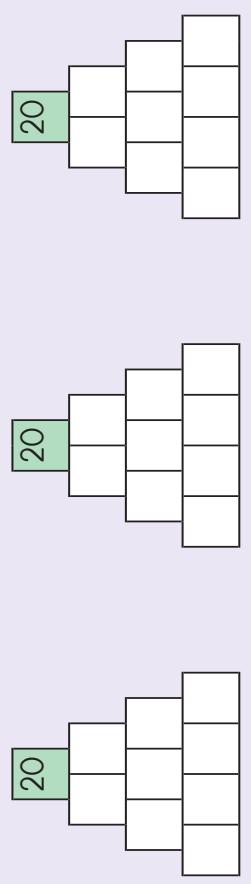


Tirhisu naru ku kuma tinomboro leti sijweke.

Sweswi endla leswi



Akaku fikaeka 20 hi 3 wa tindllela to hambara



Ntihontiko



Tirhisu tinomboro ta 1, 2, 3, 4 na 5.
3 wa tinomboro eka rikaxa rin'wana na rin'wana ri nyka 10.
fanele ku hilanganra rin'wana na yin'wana kan'we ntsema.

Naru: Tirhisu nomboro yin'wana na rin'wana kan'we ntsema.

Kotara ja 2



Ku kuma tinomboro

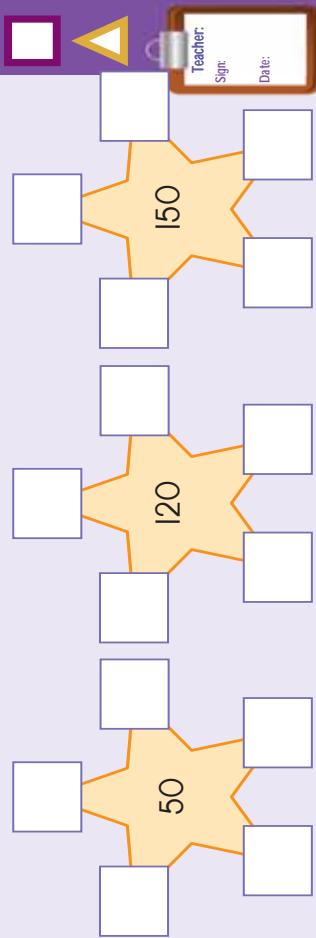
a. Nawa: Tinomboro eka rikaxa rin'wana na rin'wana ti fanele ku hilanganra.

2	5	3	6

b. Nawa: Kuna 3 watinomboro, to hingakanya na to ya ehansi. Hinlkwato tinomboro ti fanele ku hilanganiswa kutani ti nyika ntsengo lowu fanaka.

23	28	21
12		26
	10	

c. Nawa: Tsala 5 watinomboro tin'wana na rin'wana leti
hilanganaka ti nyika nomboro ya le xikarhi enyeletini.



1 2 3 4 5 6 7 8 9 10

143

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

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

Xitsemiwa 2

