



Manana Angie Motshega,
Holobye wa Dyondzo ya
Masungulo



Nkulukumba Enver Surty,
Xandla xa Holobye wa
Dyondzo ya Masungulo

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

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

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

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

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

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MATEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 1

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Basic Education
REPUBLIC OF SOUTH AFRICA

Leyi pfuxetiweke
hi xiCAPS



Giredi
ya 3

Vito:

Tlilasi:



MATHEMATICS IN XITSONGA
GRADE 3 – BOOK 1
TERMS 1 & 2

ISBN 978-1-4315-0014-7

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NOT BE SOLD.

MATEMATIKI HI XITSONGA

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1 na 2

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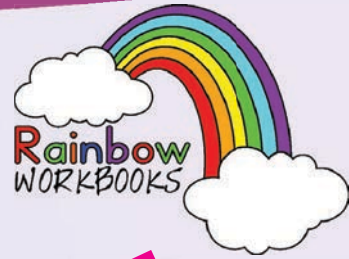
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1	2	3	4	5	6	7	8	9	10
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3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

Giredi
ya

3



HI XITSONGA

Buku leyi i ya:



XITSONGA

Buku ya

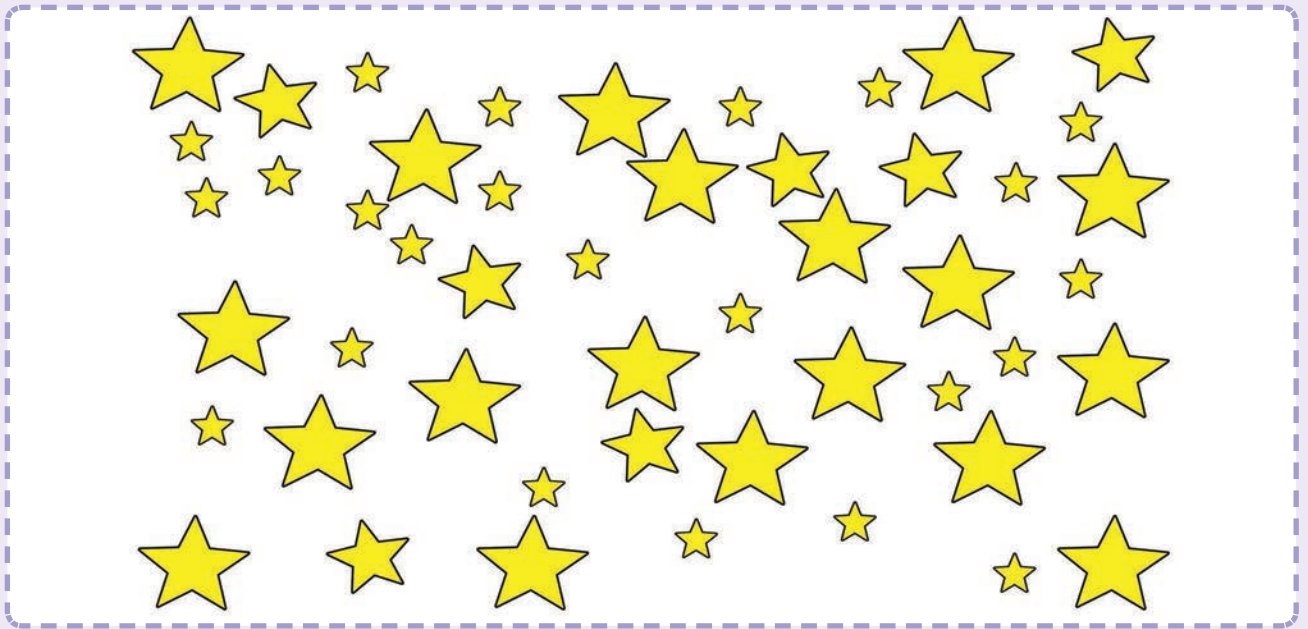
—



Hlayela, hlawula no kombisa!

I tingeleti tingani?

Ringanisani tinhlamulo.



Pimanyisani leswaku ku na tingeleti tingani. _____

Sweswi ti hlayeleni. _____



Kumani muhluri!

Xana i mani a nga endla mpimanyiso wa kahle?

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

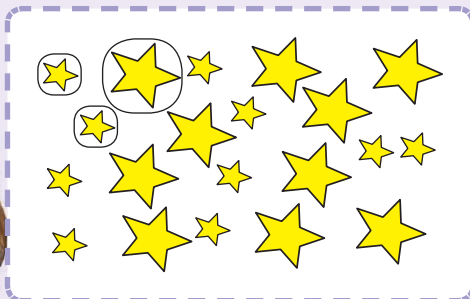
Vito				
Mpimanyiso				
Nhlayo leyi hlayeriweke				
Ku hambana exikarhi ka mpimanyiso na ku hlayela ka n'wina				



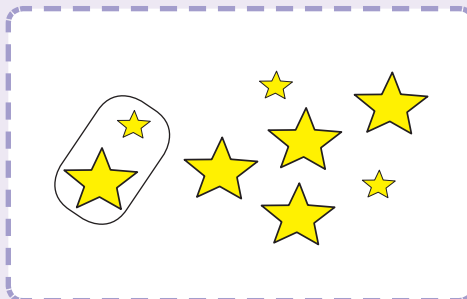
Tindlela to hlayela. Hi pfuneni ku ti tsala ehansi.



Ndzi hlayele hi
vun'we.



1, 2, 3, _____

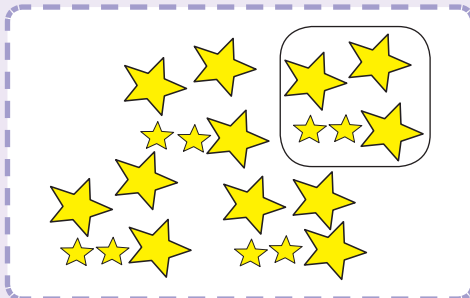


2, _____

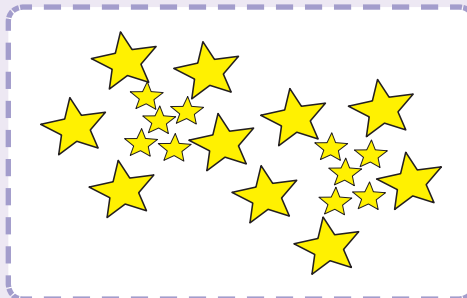
Ndzi hlayele
hi vu-2.



Ndzi hlayele
hi vuntlhanu.



5, _____



Ndzi hlayele
hi vukhume.



Tsalani swivulwa swa tinomboro

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

Kulu Tsongo Ku fana na leswi kumbe ku fana na leswi



naswona tanihi swivulwa swa tinomboro.



_____ + _____ = _____ kumbe _____ + _____ = _____

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



Teacher:

Sign:

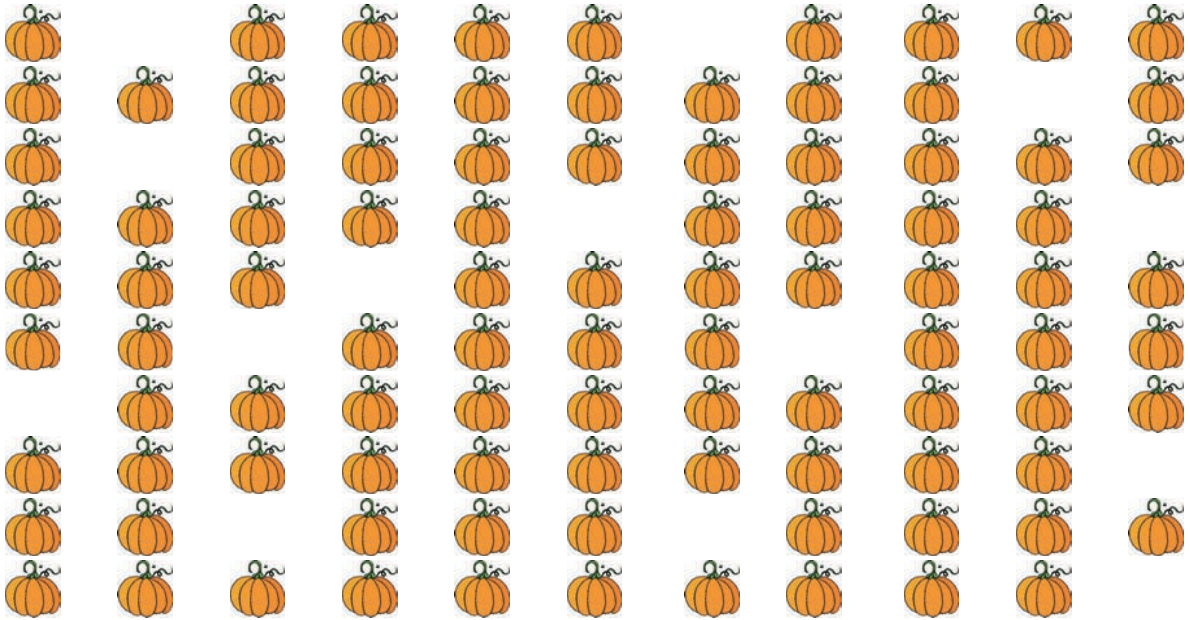
Date:



Ku hlayela hi vutlhari

Ku hlayela makwembe

Kuma ndlela yo olova yo ma hlayela!



Nhlamulo: _____



Ku paka makwembe

Makwembe ya khume ya nghena esakeni rin'we.



Xana ku na masaka mangani? _____

Xana ya hundze hi makwembe mangani? _____

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



Ku suka eka + ku ya eka $\times$ (ku hlanganisa ku ya eka ku andzisa)

Hetisa swivulwa swa tinomboro.

Xikombiso:

$$10 + 10 + 10 + 10 = 40 \Rightarrow \text{ntsengo wa } 4 \text{ wa mintlawana ya } 10 = 40 \Rightarrow 4 \times 10 = 40$$



a. $10 + 10 + 10 =$ _____

_____ wa mintlawana ya 10 = _____ $\Rightarrow$ _____ $\times$ _____ = _____



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

_____ wa mintlawana ya 10 = _____ $\Rightarrow$ _____ $\times$ _____ = _____



Swandla na tintiho



Xana i swandla swingani? _____

Xana i tintiho tingani? _____

Tsala nhlamulo ya wena hi 2 wa tindlela.

_____ wa mintlawana ya 10 = _____ na _____ $\times$ 10 = _____



Teacher:

Sign:

Date:



Tinomboro eka giridi

Ku vulavula hi tinomboro

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

I	2	3	4	5	6		8	9	10
11									
						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?



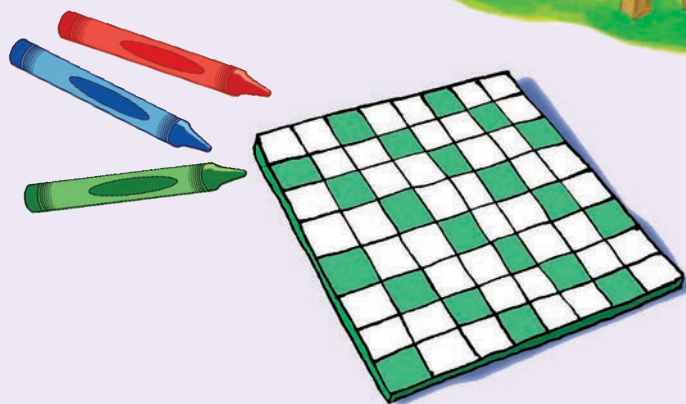
Tsala tinomboro hi marito.

90	makumekaye	41	
77		56	
14		65	



Ku hlayela no khalara

Tilulamisele ku hlayela muhlovo!



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

Hlayela no khalara
vu-10.

Hlayela hi vu-10 ku suka
eka 10 ku fika eka 100.

Tsala vu-10 ku suka eka
10 ku fika eka 100.

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

Hlayela no khalara vu-5
ku suka eka 0 ku fika eka
100.

Hlayela hi vu-5 ku suka
eka 5 ku fika eka 100.

Tsala vu-5 ku suka eka 5
ku fika eka 80.

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

Hlayela no khalara
vu-2.

Hlayela hi vu-2 ku suka
eka 2 ku fika eka 100.

Tsala vu-2 ku suka eka 2
ku fika eka 100.



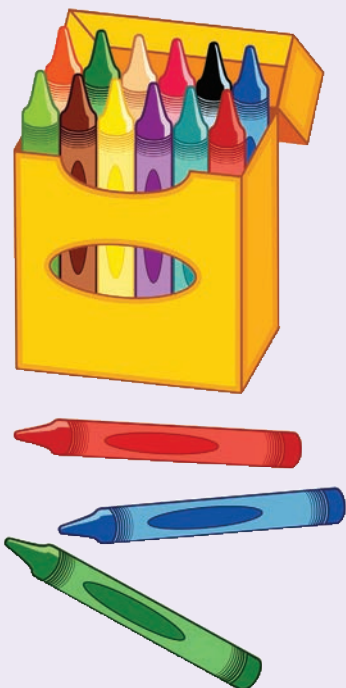
Teacher:
Sign:
Date:

Tinomboro eka giridi (ku yisa emahlweni)



Ku lava tipatironi

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	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



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

Nkoka wa ndhawu



Ku kombisa tinomboro ta wena

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

19

43

69

54

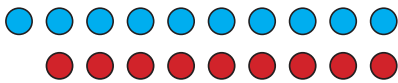
35

10

9



19

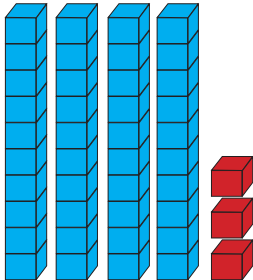


10

9

$$10 + 9 = 19$$

43



10

10

10

10

3

$$40 + 3 = 43$$

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

54

35

69



Tsala tinomboro leti

Hi ku endlele yo sungula.

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

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



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

_____;

Teacher:
Sign:
Date:

Ku hlanganisa na ku susa



Xitolo xa Lebo

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

a. Xana Lebo u xavisile maphakiti mangani? _____

b. Tsala nhlamulo ya wena tanihi xivulwa xa tinomboro.

_____ - _____ = _____



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

$15 - 9 = 6$ _____



Ntoloveto wo vuyelela tinomboro

$$1 + 2 = 3$$

Tsala tinhlamulo.

Tirhisa ...

+ - =

$10 + 5 = \square$

$11 + 6 = \square$

$14 - 9 = \square$

$14 - 8 = \square$

$11 + 5 = \square$

$17 + 2 = \square$

$19 - 7 = \square$

$14 - 5 = \square$

$12 + 6 = \square$

$3 + 13 = \square$

$16 - 5 = \square$

$16 - 13 = \square$

$17 + 2 = \square$

$4 + 15 = \square$

$15 - 10 = \square$

$19 - 7 = \square$



Mindyangu ya tinomboro

5

9

14

Hi leswi swikombiso swa ndyangu wa nomboro leyi.

$9 + 5 = \underline{14}$

$5 + 9 = \underline{14}$

$\underline{14} - 9 = 5$

$\underline{14} - 5 = 9$



Xana u nga kuma mindyangu hinkwayo ya nomboro ya 14?

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



Ndzi ta endla
leswi fanaka hi 12.

12

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



Teacher:
Sign:
Date:

Ku andzisa kambirhi na tihafu

Xana wa tsundzuka?

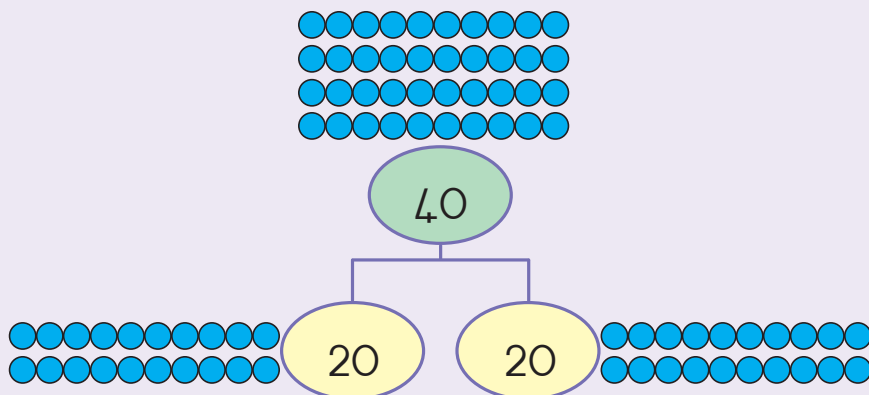
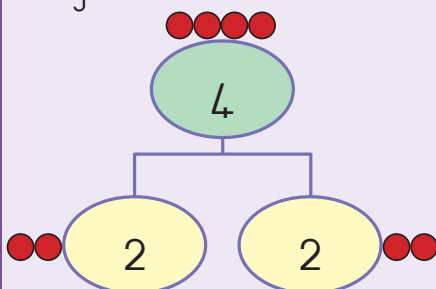
2 i hafu ya 4

20 i hafu ya 40

4 i 2 yi andzisiwe kambirhi

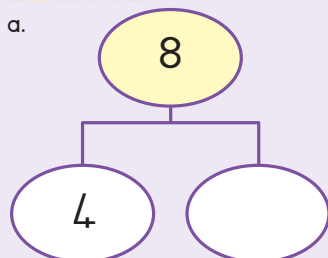
40 i 20 yi andzisiwe kambirhi

Hi nga kombisa leswi eka xifaniso...

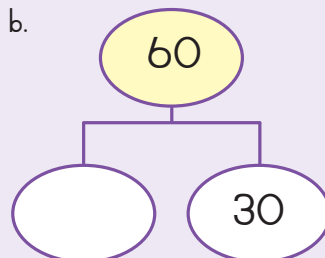


Kuma mitsengo ya ku andzisa kambirhi kumbe tihafu

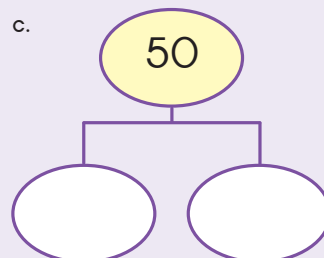
a.



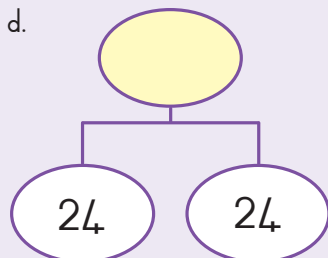
b.



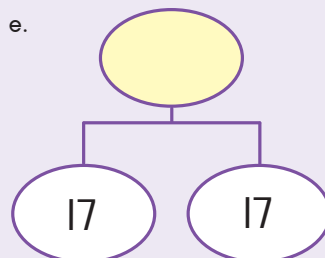
c.



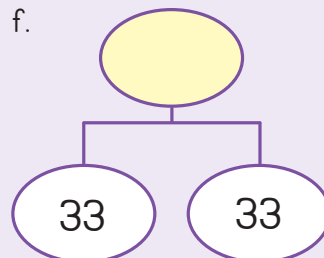
d.



e.



f.



Ntlhontlho

Kuma hafu yin'we ya 3.

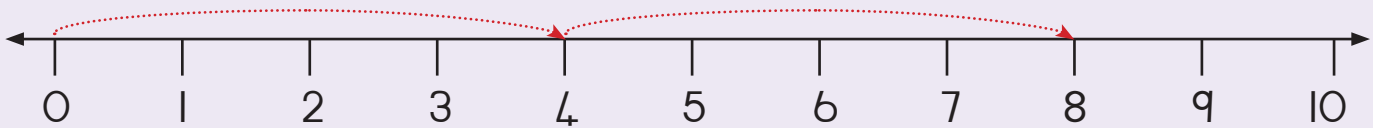
Kombisa tanihi nomboro kumbe vito ra nomboro. Xifaniso xi nga ku pfuna.



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

a. Andzisa 4 kambirhi

$$\boxed{4} + \boxed{4} = \boxed{8}$$



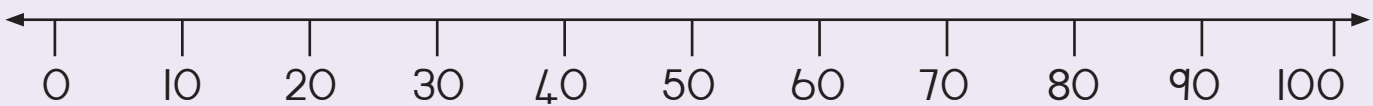
b. Andzisa 5 kambirhi

$$\boxed{} + \boxed{} = \boxed{}$$



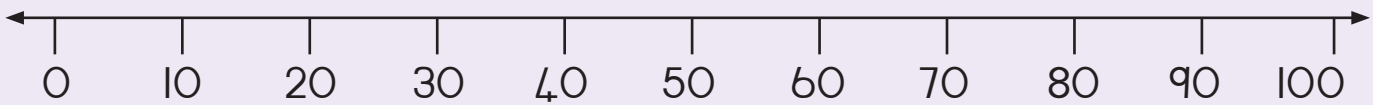
c. Andzisa 20 kambirhi

$$\boxed{} + \boxed{} = \boxed{}$$



d. Andzisa 40 kambirhi

$$\boxed{} + \boxed{} = \boxed{}$$



Hetisa leswi landzelaka

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



Hetisa leswi landzelaka

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



Teacher:
Sign:
Date:

Swiphemu

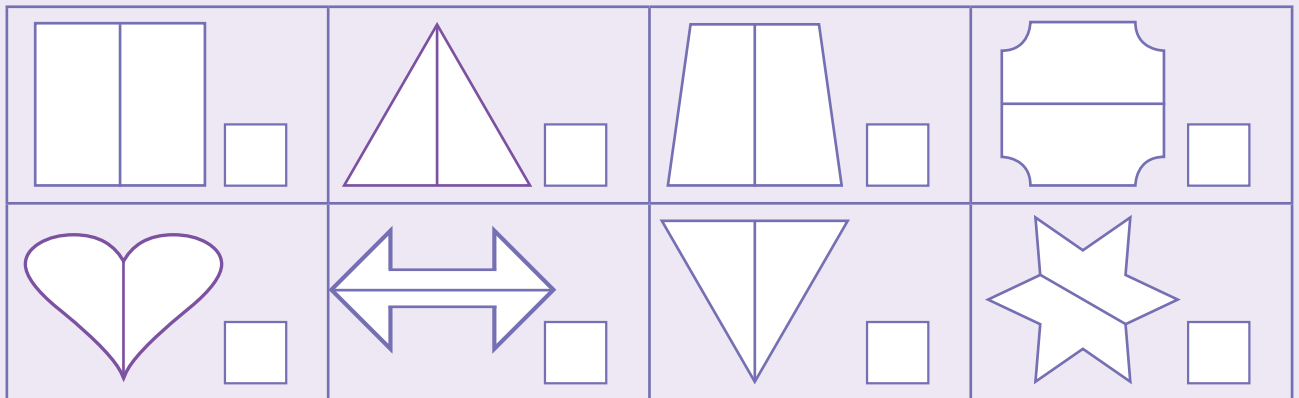
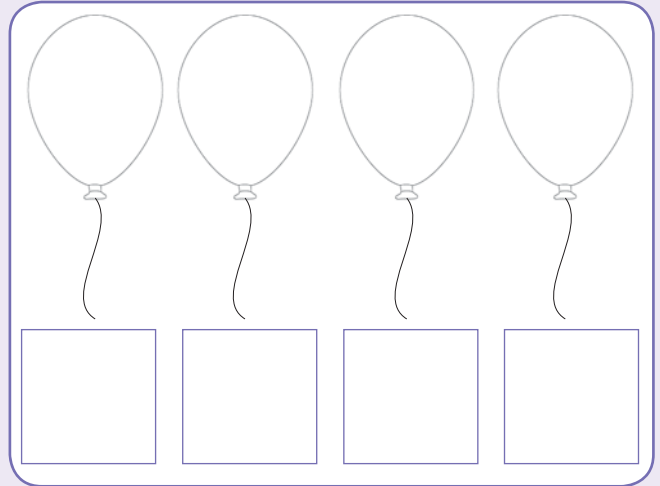
Khalara kotara ya tibaluni hi muhlovo wo tshwuka kasi leti saleke hinkwato hi muhlovo wa wasi.

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



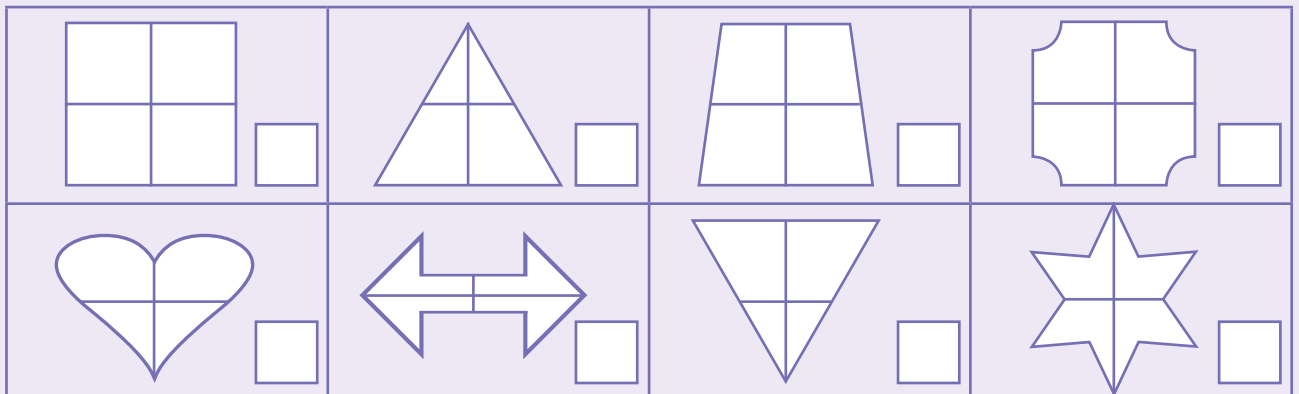
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tihafu.

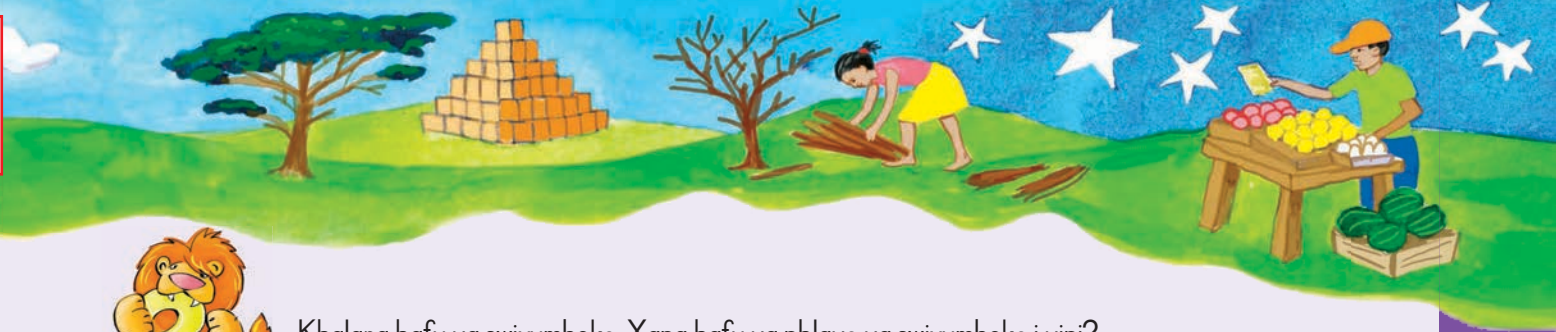
Khalara hafu yin'we ya xivumbeko xin'wana na xin'wana lexi nga avanyisiwa eka tihafu.



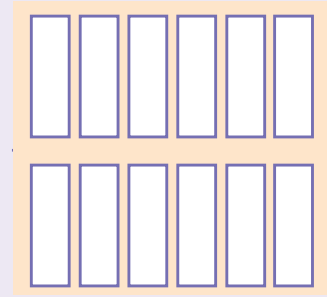
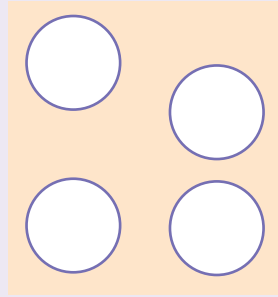
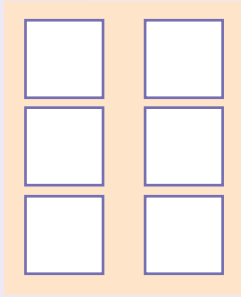
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tikotara.

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

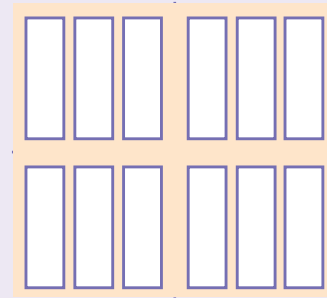
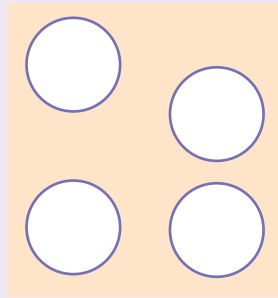
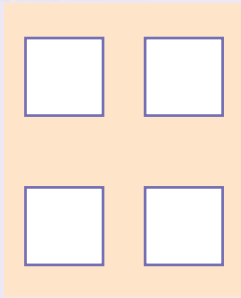




Khalara hafu ya swivumbeko. Xana hafu ya nhlayo ya swivumbeko i yini?



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



Tsala tanihi mfungho wa xiphemu.

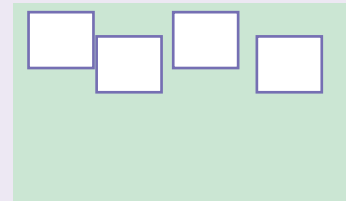
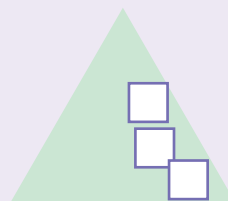
hafu



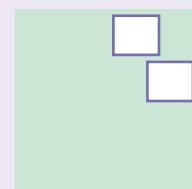
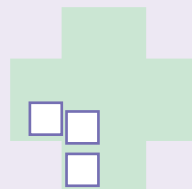
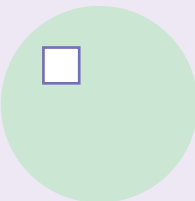
kotara



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



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



Teacher: _____
Sign: _____
Date: _____

Ku hlawula mali



Exitokofeleni

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



Pimanyisa ntsengo hinkwawo. R _____

Hlayela mali. R _____

Ringanisa mikumbetelo
na mitsengo.



Ku hlayisa mali



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

Ku fika sweswi u na hafu ya ntsengo.

Xana u lava mali muni yin'wana?

Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.



Ebangi

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



Ntsengo



R _____



R _____



R _____



Ntlhontlho

Rendzo ro ya entangeni wa swiharhi

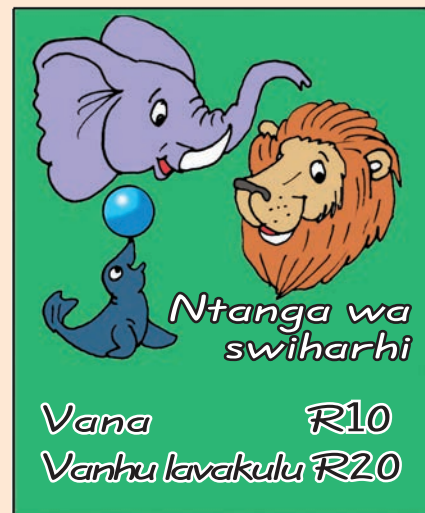
Vanhu lavakulu na vana va ya entangeni
wa swiharhi. Va xava mathikithi ya R90.

Xana vana i vangani? _____

Xana lavakulu i vangani? _____

Xana ku na nhlamulo yin'wana?

Vanhu lavakulu _____ Vana _____



Teacher: _____
Sign: _____
Date: _____

Tipatironi

Tirhisa bodo leji ya 200 wa tinomboro ku hlamula swivutiso.

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

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

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



Tsala tinomboro leti landzelaka eka patironi yin'wana na yin'wana. Kutani khalaria patironi. Xana u lemuka yini hi tinomboro leti khalaria weke 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



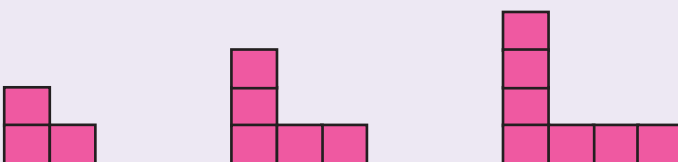
Engetela patironi.



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Teacher:
Sign:
Date:

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



Silindara



Bolo

rheta

khunguluka

rheta

khunguluka

rheta

khunguluka



Khalara nhlamulo leyi faneleke.



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



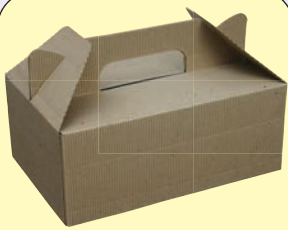
makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



makumu yo khotseka

makumu yo thwixi



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



endzhaku
ka

emahlweni ka

etlhelo ka

ehenhla ka



endzhaku
ka

emahlweni ka

etlhelo ka

ehenhla ka



endzhaku
ka

emahlweni ka

etlhelo ka

ehenhla ka



endzhaku
ka

emahlweni ka

etlhelo ka

ehenhla ka



Teacher: _____
Sign: _____
Date: _____



Siku:

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



Dirowa swivumbeko

Yinhlanharhu

Xirhendzevutana

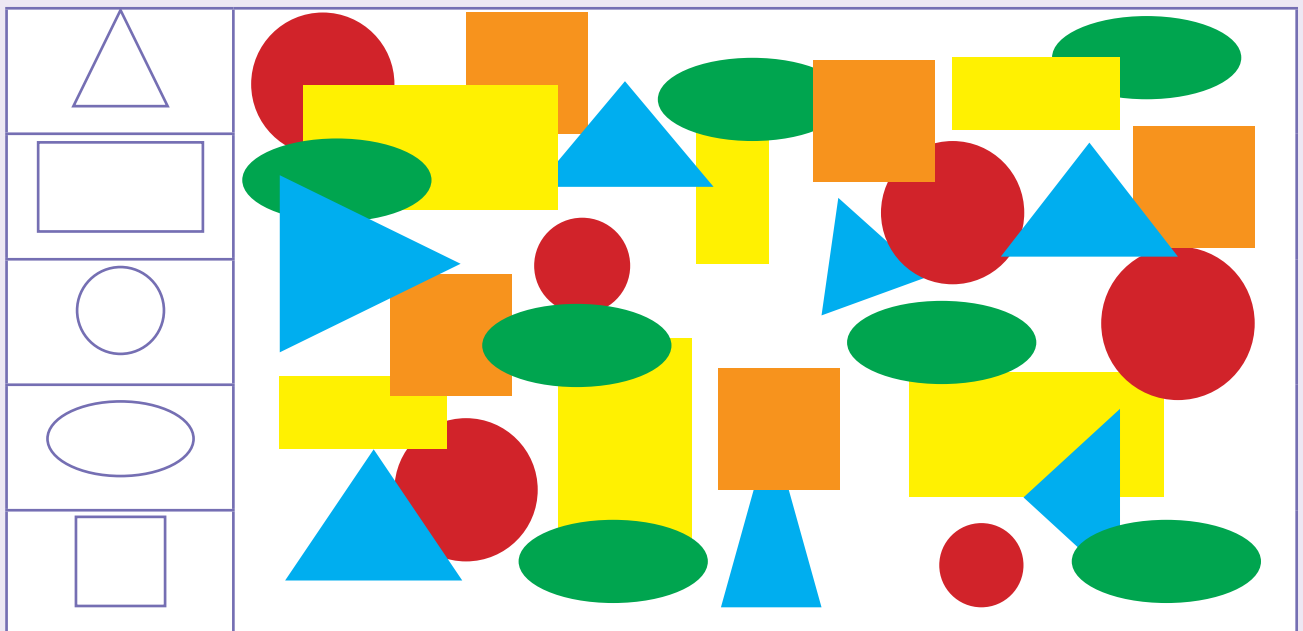
Xikwere

Yinhlamune



Ku hlayela swivumbeko

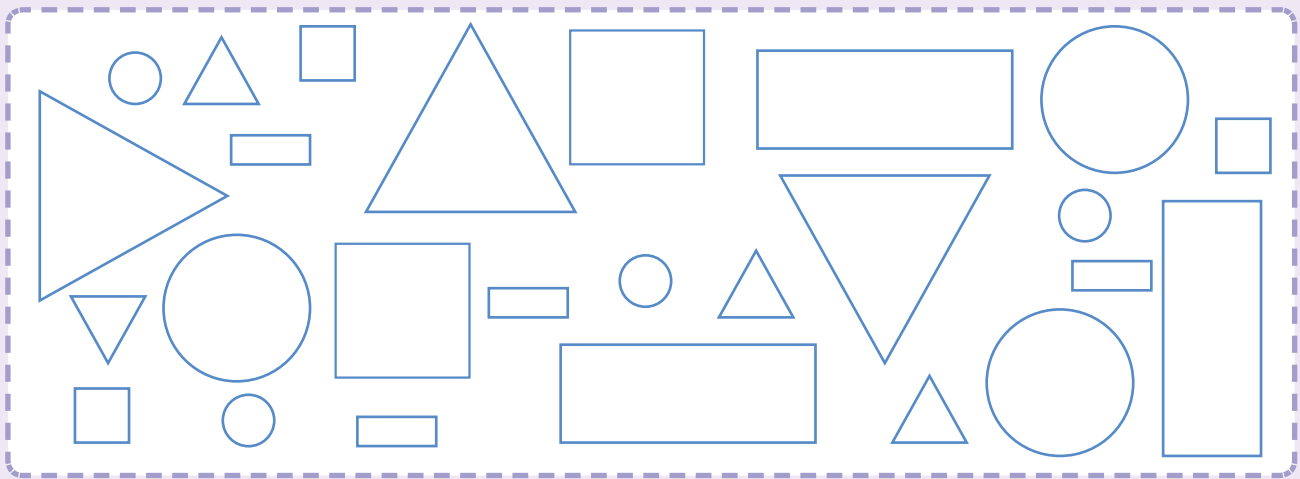
Hlayela leswaku ku na swivumbeko swingani swo fana na leswi u nga swi kuma exifanisweni.





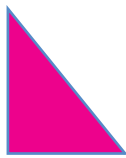
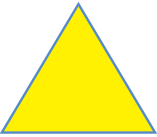
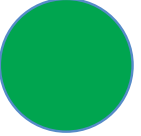
Khalara

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



Xana ku na matlhelo mangani?

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

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



Teacher: _____
 Sign: _____
 Date: _____

Nkarhi wa famba



Ku hlaya nkarhi

Xana i minkarhi yihi leyi tiwachi leti ti yi kombisaka?



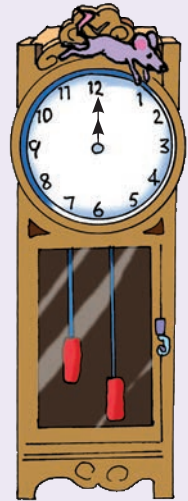
_____ ehenhla ka nhloko _____ ehenhla ka nhloko _____ ehenhla ka nhloko _____ ehenhla ka nhloko



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.

Xana Tumi u teka nkarhi wo tanihi kwihi? _____



Siku ro baka

Maria u baka xinkwa.



Xinkwa xi nghena
eovheneni.



Xinkwa
xa huma.



Xinkwa xi vupfa hi _____ wa timinete.



Ntlhontlho

Ndzi kota ku vona
patironi.

I nkarhi wa ku andzisa kambirhi

a. Cinca tiawara ku ya eka timinete.

Tiawara	1	2	4	8
Timinete	60			

b. Jabu u teka 4,5 wa timinete ku fika exikolweni. Tumi u teka nkarhi lowu kambirhi ku endla tano. Xana Tumi u teka tiawara tingani ku fika exikolweni? _____

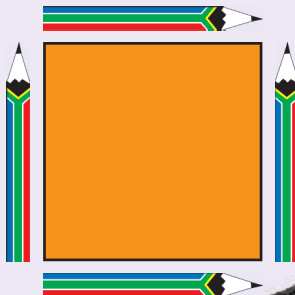
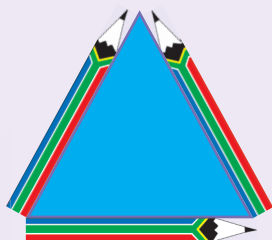


Teacher:
Sign:
Date:

Ku pima ku leha



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



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



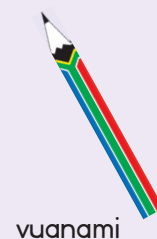
A ndzi tivi leswaku
yinhlamune yi lehile no
anama ku fika kwihi.



Xana yinhlamune yi lehile ku ringana tipensele tingani?

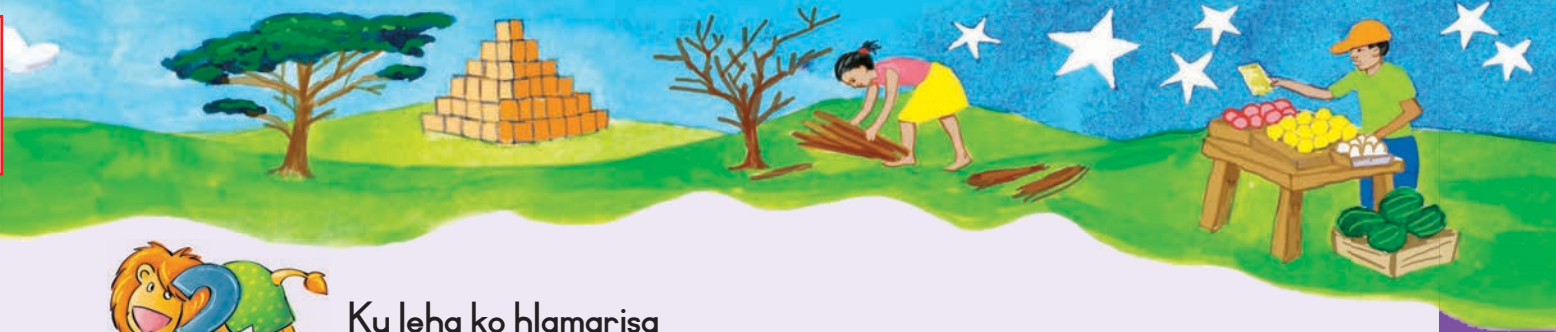
Xana yinhlamune yi anamile ku ringana tipensele tingani?

ku leha



vuanami

Xana u ti tirhise njhani tipensele ku hlayela?

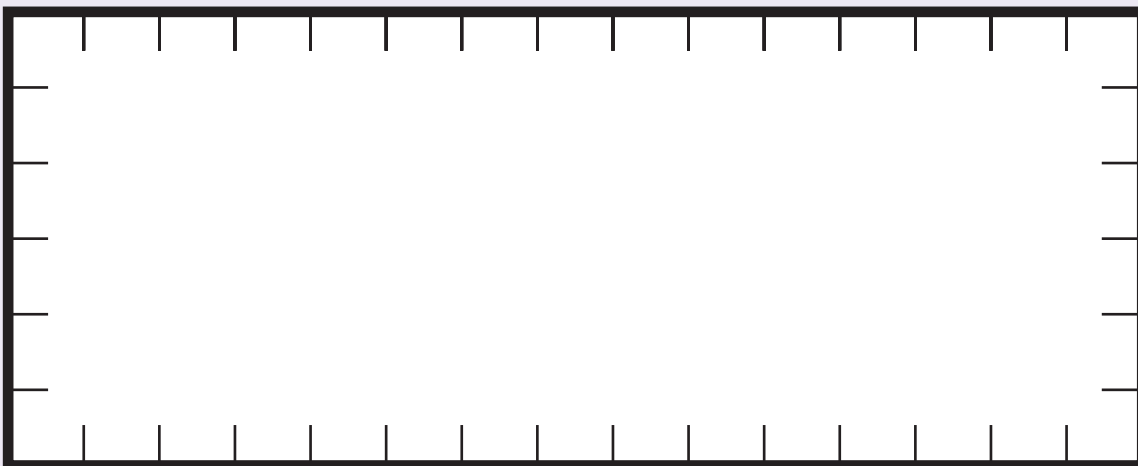


Ku leha ko hlamarisa

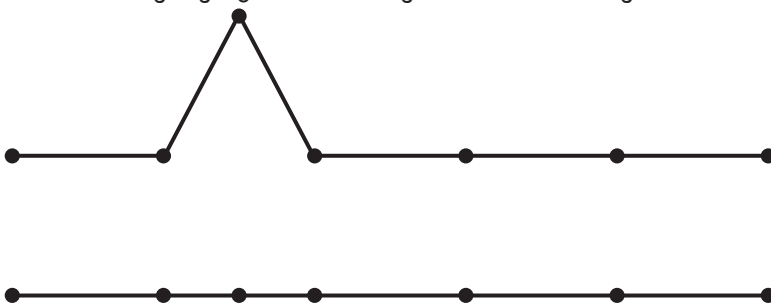
- a. Xana i mitila yo **tshwuka** yingani leyi u faneleke ku yi kuma ku kota ku ringana na ntila wa ntima?



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



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



Nhlamulo _____

Hikwalaho ka yini? _____



Teacher: _____
Sign: _____
Date: _____

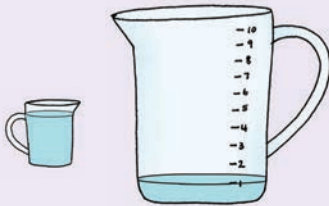
Vundzeni

Se ndzi cherile malepula ya mune endzeni ka khapu.

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

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

a.



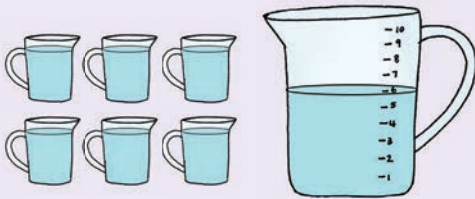
Endzeni ka xibye: Ku laveka:

b.



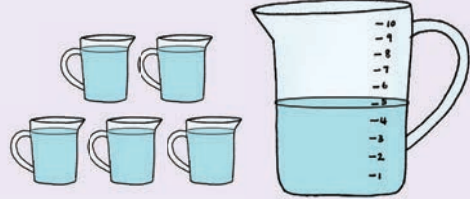
Endzeni ka xibye: Ku laveka:

c.



Endzeni ka xibye: Ku laveka:

d.



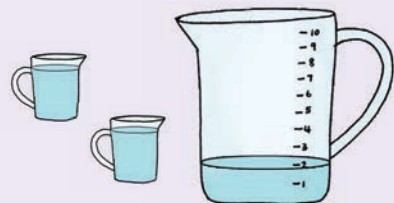
Endzeni ka xibye: Ku laveka:

e.



Endzeni ka xibye: Ku laveka:

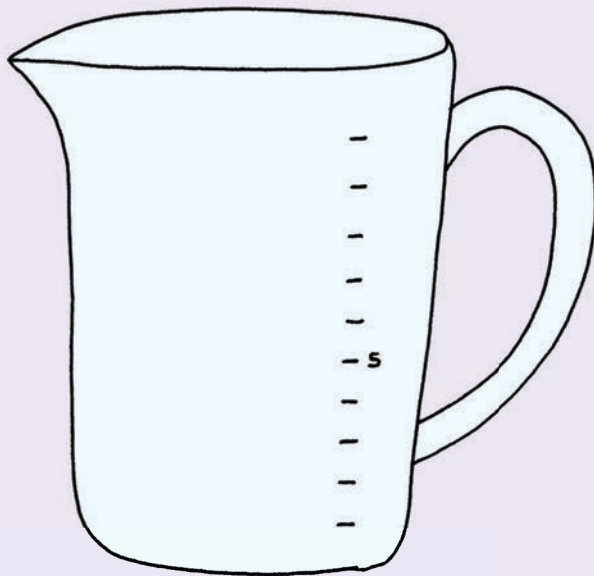
f.



Endzeni ka xibye: Ku laveka:



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



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

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



Gwajula swibye swo chela leswi khomaka 1 litara ya swihalaki.















Teacher: _____
Sign: _____
Date: _____

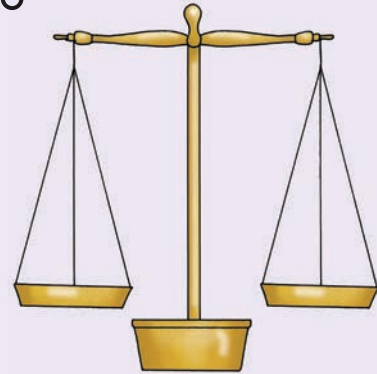
Ku tirha hi ntiko



A hi pimeni ntiko!

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

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



41 kg



38 kg



41 kg



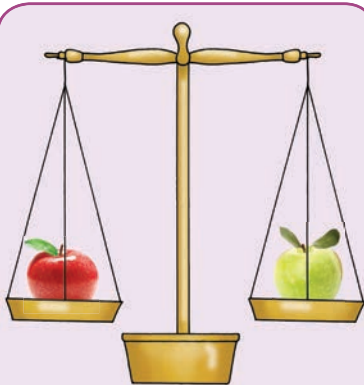
42 kg



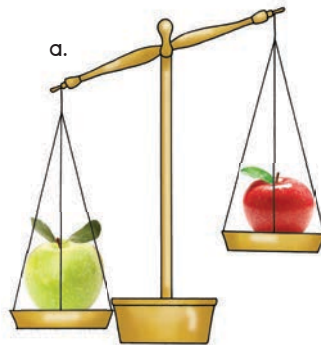
39 kg



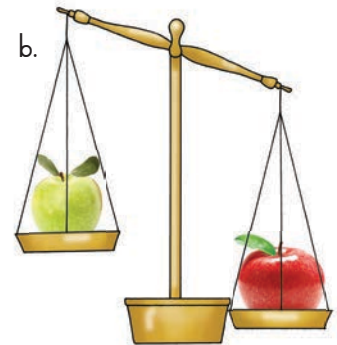
Hi tirhisa xikalu xa balansi ku pima ntiko.



Eka xikalu lexi maapula hinkwawo
ya tika ku ringana.



Hlamula xivutiso hi ku tsala a kumbe b.



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

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



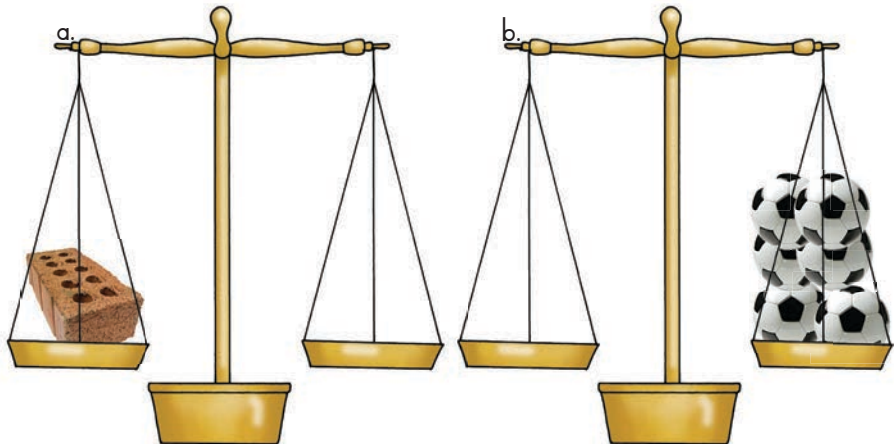
Ringanisa swikalu.

Hi ku endlele xo sungula.



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

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

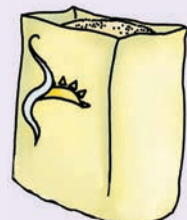
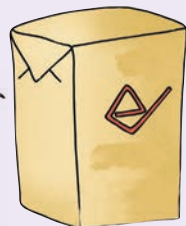


Loko phasele rin'we ri tika 3 kg, xana 2 na 3 wa maphasela ya ta va na ntiko muni?

- 2 maphasela _____
 - 3 maphasela _____
 - Xana ndzi nga swi kota ku pima 4 wa maphasele hi nkarhi wun'we exikalwini xa khichi? _____
- Hikwalaho ka yini swi koteka kumbe swi nga koteki? _____



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





Tintanghu etlilasini



Hlaya xitori.

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

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

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

Manana Khoza u tsala tisayizi exitsalelweni.

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

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

Tatisa tafula leri nga laha hansi.

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



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?

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

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



Teacher:
Sign:
Date:

Ringanisa no longoloxa tinomboro

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

Hi yihi nomboro leyi nga exikarhi ka 88 na 90?



Tata tinomboro leti siyiweke.

51									
						67			
71									
									100

Tirhisa bodo ya tinomboro ku hlamula swivutiso.

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

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



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:

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

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



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



Teacher: _____

Sign: _____

Date: _____

Nkoka wa ndhawu ku fika eka 99



Ku kombisa tinomboro hi ku tirhisa swilo

Hi nga kombisa tinomboro hi tibuloko ta nkoka wa ndhawu.

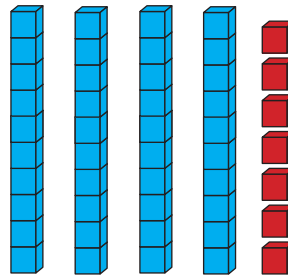
Buloko leyitsongo yi yimela I. I yuniti/vun'we.

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

Vukhume	Vun'we

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

Leswi hi nga kombisisaka xiswona 47.



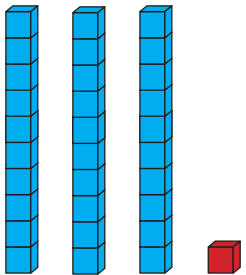
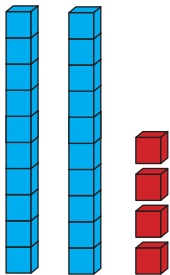
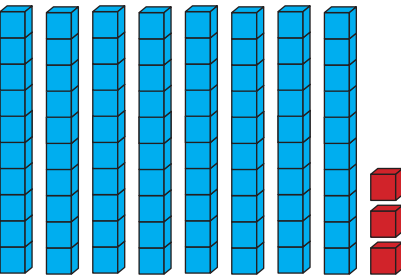
Vukhume	Vun'we
4	7

makumemune nkombo
47



Ku tsala tinomboro hi tidijiti na hi marito

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

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



2 0

6

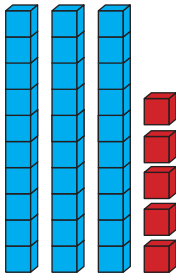
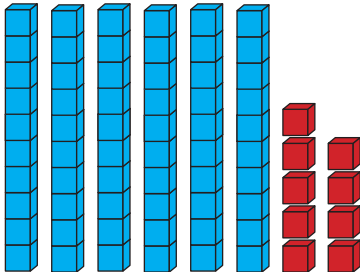
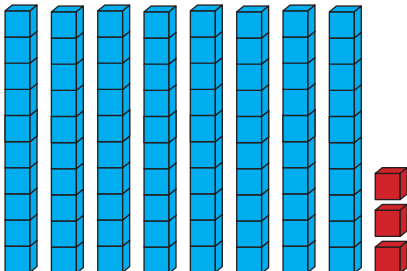
2 6

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

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



Xana nomoro i yini?

	30 5 35	<table><tr><th>Vukhume</th><th>Vun'we</th></tr><tr><td>3</td><td>5</td></tr></table> makumenharhu ntlhanu 35	Vukhume	Vun'we	3	5
Vukhume	Vun'we					
3	5					
		<table><tr><th>Vukhume</th><th>Vun'we</th></tr><tr><td></td><td></td></tr></table> _____ _____	Vukhume	Vun'we		
Vukhume	Vun'we					
		<table><tr><th>Vukhume</th><th>Vun'we</th></tr><tr><td></td><td></td></tr></table> _____ _____	Vukhume	Vun'we		
Vukhume	Vun'we					



Teacher: _____

Sign: _____

Date: _____



Hlaya

Ku veka vukhume kun'we loko hi hlanganisa eka 99

Hi leyi ndlela yin'wana ya ku kombisa 22.

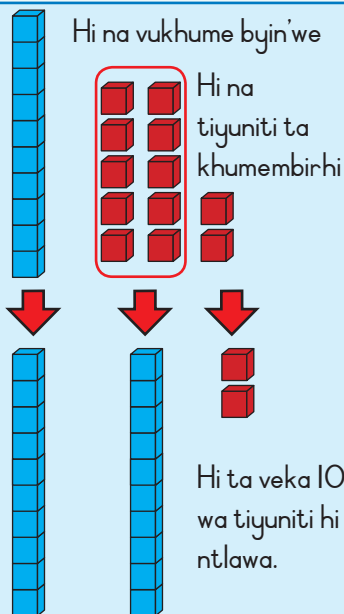
Vukhume	Vun'we

1 khume

1 0

12 ya vun'we

1 0 2



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

Vukhume	Vun'we

2 ya vukhume

2 2

2 ya vun'we

2

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

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

Vukhume	Vun'we

2 ya vukhume

2 0

7 ya vun'we
+ 4 ya vun'we

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

 $3 \text{ vukhume} + 1 \text{ vun'we} = 31$

Vukhume	Vun'we

 $\text{---} + \text{---} = \text{---}$

3 1



Tsala xivulwa xa tinomboro lexi kombisiwaka hi xifaniso

Vukhume	Vun'we
$10 + 5 + 6$	$\underline{\quad} + \underline{\quad} + \underline{\quad}$

Vukhume	Vun'we
$\underline{\quad} + \underline{\quad} + \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$

Vukhume	Vun'we
$\underline{\quad} + \underline{\quad} = \underline{\quad}$	

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

Vukhume	Vun'we

Vukhume	Vun'we

Vukhume	Vun'we



Teacher: _____

Sign: _____

Date: _____

Hlanganisa eka ndzhati wa mitsengo

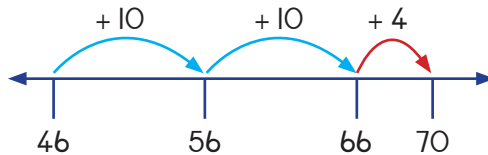
Tshama edesikeni ra wena!

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



Tirha na nakuloni

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



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

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

Ndzi fanele ku
hlanganisa 24
eka 46.



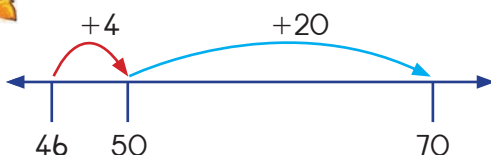
a. $32 + 25 =$





b. $52 + 26 =$

c. $46 + 25 =$



Ndzi fanele ku
hlanganisa 24
eka 46.



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

$$= 40 + 10 + 20$$

$$= 50 + 20$$

$$= 70$$

a. $36 + 41 =$



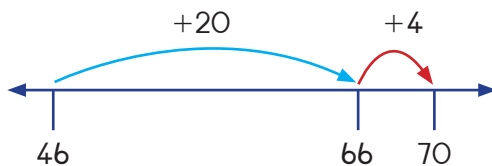
Teacher: _____

Sign: _____

Date: _____

Hlanganisa eka ndzhati wa mitsengo
(ku yisa emahlweni)

b. $57 + 19 = \square$



Ndzi fanele
ku engetela 24
eka 46.



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

$$= 46 + 20 + 4$$

$$= 66 + 4$$

$$= 70$$

a. $63 + 24 = \square$



b. $65 + 29 = \square$



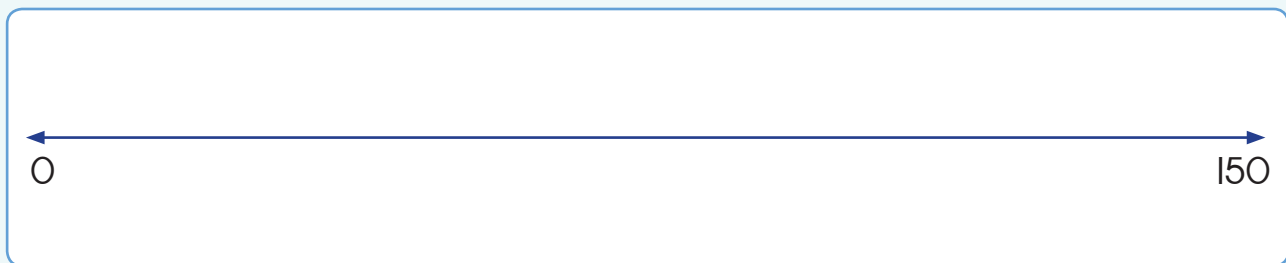


Xana i malofo mangani?

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

Xana i malofo mangani hinkwawo ka wona?

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



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

$$38 + 24 =$$

$$58 + 17 =$$

$$75 + 16 =$$

$$83 + 29 =$$



Teacher: _____

Sign: _____

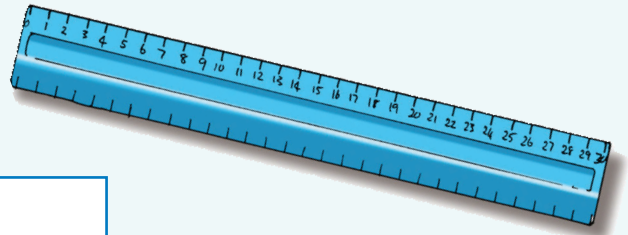
Date: _____

Susa eka ndzhati wa mitsengo

Mudyondzi un'we! Rhula yin'we!

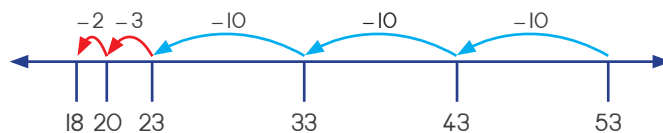
Tlilasi yi lava 53 wa tirhula. Ho va na 35 ntsena.

Xana hi lava tin'wana tingani? $53 - 35 =$



Tirha na nakuloni

Hlaya leswi vadyondzi vanharhu va tirhisisa xiswona ndzhati wa mitsengo.



Hikwalaho, ndzi ta sungula eka 53 kutani ndzi susa.

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

$$\begin{aligned}
 &= 53 - 10 - 10 - 10 - 3 - 2 \\
 &= 43 - 10 - 10 - 3 - 2 \\
 &= 33 - 10 - 3 - 2 \\
 &= 23 - 3 - 2 \\
 &= 20 - 2 \\
 &= 18
 \end{aligned}$$

Ndzi fanele ku susa
35 eka 53. Nsuso swi
vula ku susa.

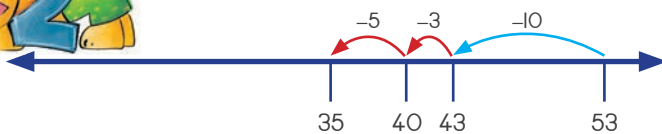




a. $68 - 24 =$

b. $74 - 38 =$

c. $92 - 87 =$



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



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

a. $38 - 14 =$

Teacher:
Sign:
Date:

Susa eka ndzhati wa mitsengo
(ku yisa emahlweni)

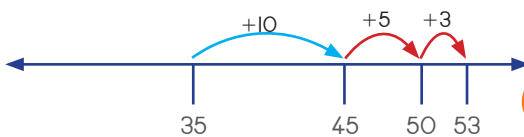
b. $65 - 43 =$



c. $72 - 39 =$



d. $85 - 48 =$



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



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

a. $84 - 32 =$





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: _____

I nkarhi wa xinkhubyana



Pulani yo sungula!

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



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

				
Nomboro				



Dirowa xikandza xin'we (☺) eka n'wana un'wana na un'wana loyi
a hlalulaka rixaka ra swakudya kumbe swa ku nwa.

[illegible]

Teacher: _____

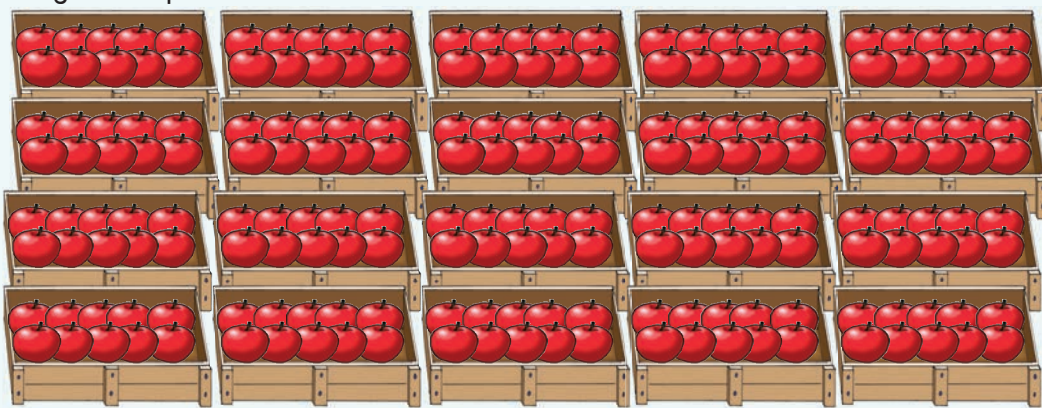
Sign: _____

Date: _____

Ku hlayela ku fika eka 200



Hlayela maapula



Tata tinomboro

Bokisi ri na wa maapula

Rixaxa ri na wa mabokisi

Rixaxa ri na wa maapula

Tinxaxa ta 4 ti na wa maapula



Xana hi nga paka maapula mangani eka mabokisi lama?

a.



b.



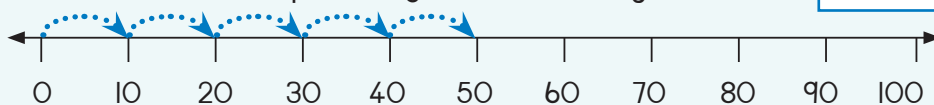
c.



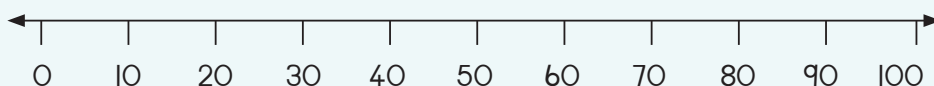


Hlayela eka ndzhati wa mitsengo.

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



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





3 wa 10 wa swijumba swi endla

3 0

$3 \times 10 =$

3 0

kumbe $10 \times 3 =$

3 0

5 wa 10 wa

swijumba swi endla

$\times$ _____

=

kumbe

$\times$ _____

=

2 wa 10 wa

swijumba swi endla

$\times$ _____

=

kumbe

$\times$ _____

=



5 wa tiphere ta mikondzo.

Xana ku na swikunwana swingani hinkwaswo?



$10 + 10 + 10 + 10 + 10 =$

5 0

$5 \times 10 =$

kumbe $10 \times 5 =$

Sweswi endla leti.

4 wa tiphere ta mikondzo.

=

$\times$

=

kumbe

$\times$

=

3 wa tiphere ta mikondzo

=

$\times$

=

kumbe

$\times$

=



A hi hlayeleni hi vu-10

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

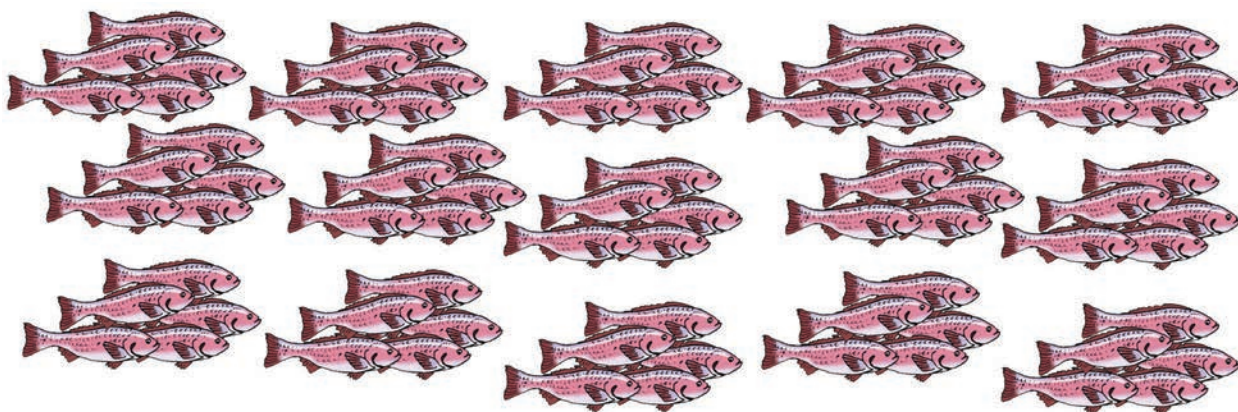
_____, _____, _____, _____, _____, _____, _____, 200



Titolovete hi vu-5



Xana ku na tinhlampfi tingani? Pimanyisa



Sweswi hlayela tinhlampfi. Kuma ntsengo.



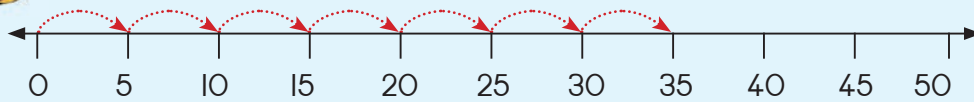
Hlayela hi vu-5

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		



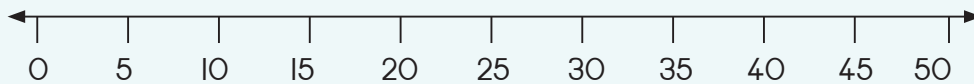
Hetisa mindzhati ya mitsengo



$$5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{35}$$

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

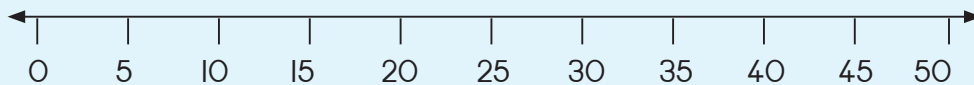
a.



$$5 + 5 + 5 + 5 = \boxed{}$$

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

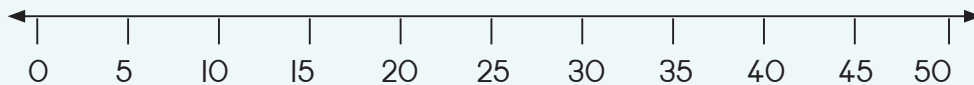
b.



$$+ + + + + + + + =$$

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

c.



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



Ku phasa tindhampfi

Sipho u phasa tindhampfi ta le xikarhi ka 40 na 50. U tihlayela hi vu-5 naswona u na l leyi saleke.

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

Teacher:

Sign:

Date:



Hlayela masokisi

Hlayela hi vu-2



a. Xana ku na tiphire tingani ta masokisi? _____

b. Xana ku na masokisi mangani? _____

c. 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: _____



Hlayela hi vu-2 (ku yisa emahlweni)

Ku vumba tiphere

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

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

2, 4, 6,

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

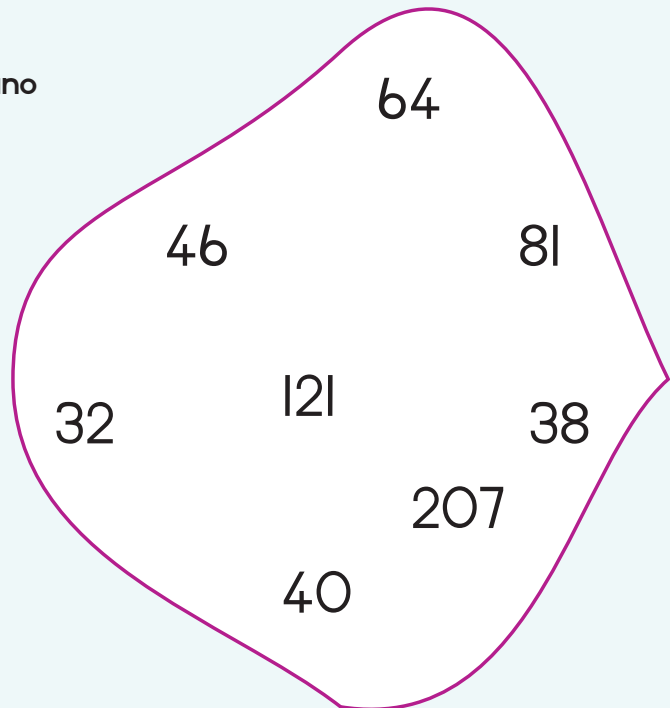
3, 5, 7,



Fadzenga na ndzingano

Dirowa xirhendzevutana eka
tinhlayo-ndzingano.

Dirowa xikwere eka tinhlayo-
fadzenga.





Ku suka eka tiphere ku ya eka masokisi

Xikombiso:

2 wa masokisi = 1 phere



$$2 \times 1 = 2$$

20 wa masokisi = 10 wa tiphere

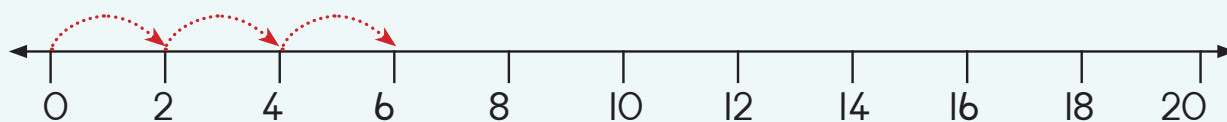
$$2 \times 10 = 20$$

a. Tsala leswaku i masokisi mangani.

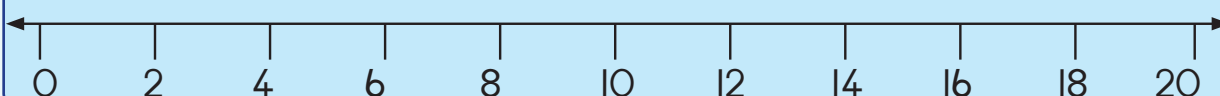
Ehleketa hi vu-2	Xivulwa xa tinomboro
1 phere = 2 wa masokisi	$2 \times 1 = 2$
2 wa tiphere = _____ wa masokisi	$2 \times 2 = \square$
4 wa tiphere = _____ wa masokisi	
8 wa tiphere = _____ wa masokisi	
9 wa tiphere = _____ wa masokisi	

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

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



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



Mali ya khale na ya sweswi



Xitori xa mali ya hina

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

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





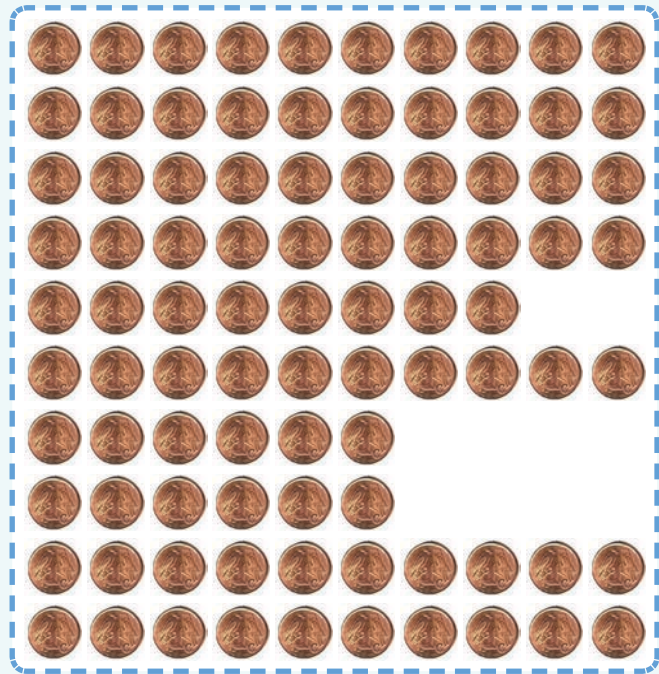
Hlayela tisente

Hlayela tisente.

Xana ku na tisente tingani?

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

Ti dirowe endzeni ka buloko.



Xana i tisente tingani?

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



Xana mihandzu yi durha mali muni?



2

ya durha R4,00.

U nga kuma mabanana mangani hi R20,00?



2

ya durha R2,00.

Eka R9,00 ku kumeka maapula mangani?



Teacher: _____
Sign: _____
Date: _____

Hlayela hi vu-3



Mavhilwa hi vu-3



I thirayisekele yi na ____ wa mavhilwa.



5 wa tithirayisekele ti na ____ wa mavhilwa.

$$3 + 3 + 3 + 3 + 3 = 5 \times 3 = \underline{\quad}$$

2 wa tithirayisekele ti na ____ wa mavhilwa.

$$3 + 3 = 2 \times 3 = \underline{\quad}$$

4 wa tithirayisekele ti na ____ wa mavhilwa.

6 wa tithirayisekele ti na ____ wa mavhilwa.

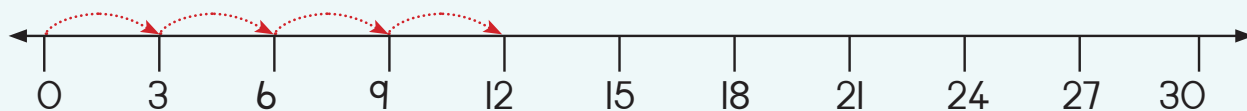
9 wa tithirayisekele ti na ____ wa mavhilwa.

8 wa tithirayisekele ti na ____ wa mavhilwa.

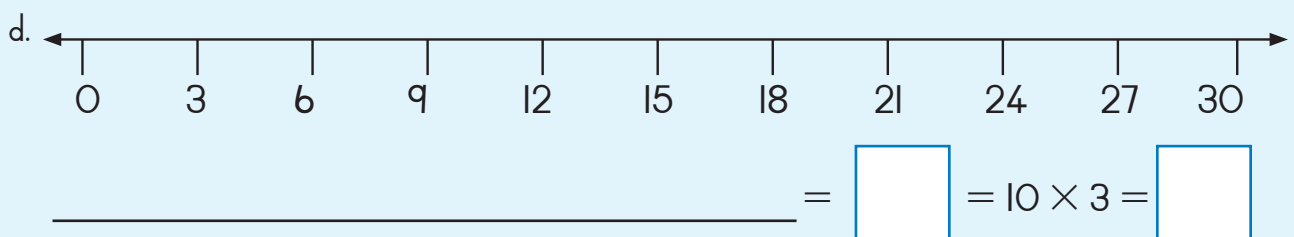
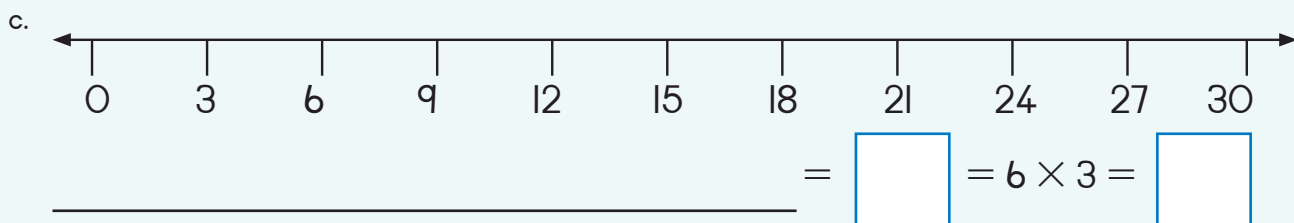
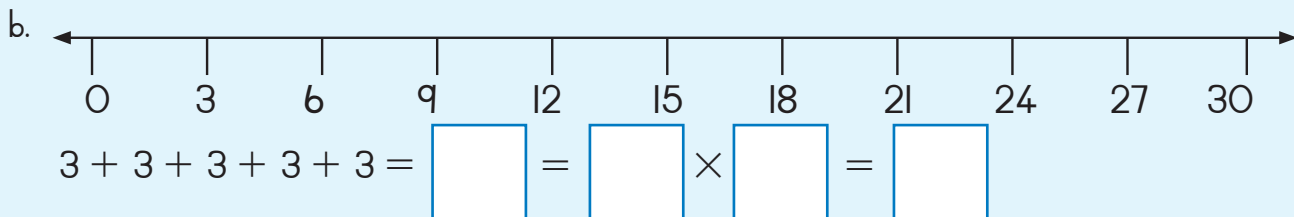


Mindzhati ya mitsengo

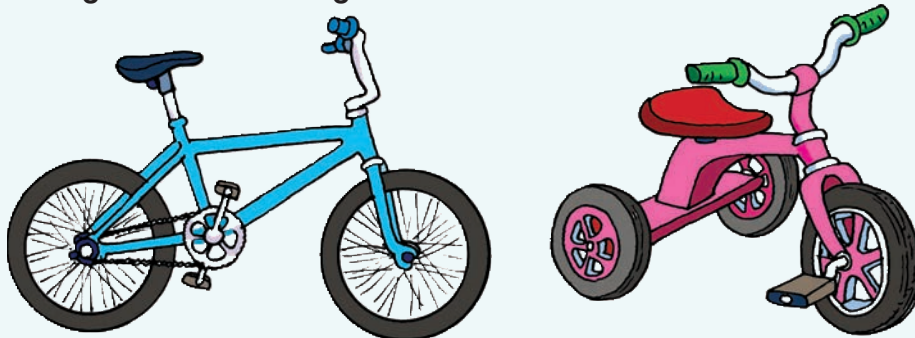
Landzelela xikombiso.



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



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? _____



Xana i yini xi taka hi vu-4?



Milenge ya mune

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



Milenge ya homu yi ta hi vu-4.

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

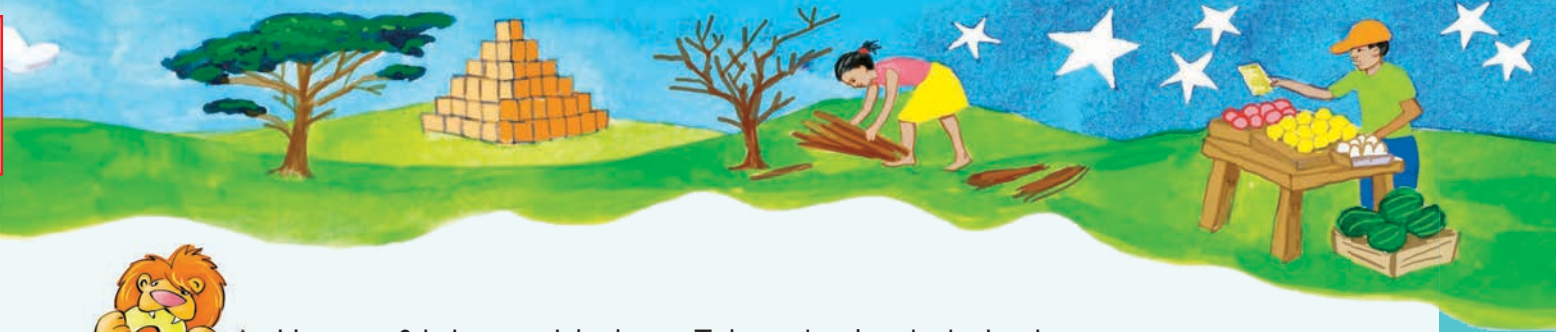


Hlayela milenge

Byelanani tinhlamulo.
Hlamusela leswi u swi endleke.

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

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



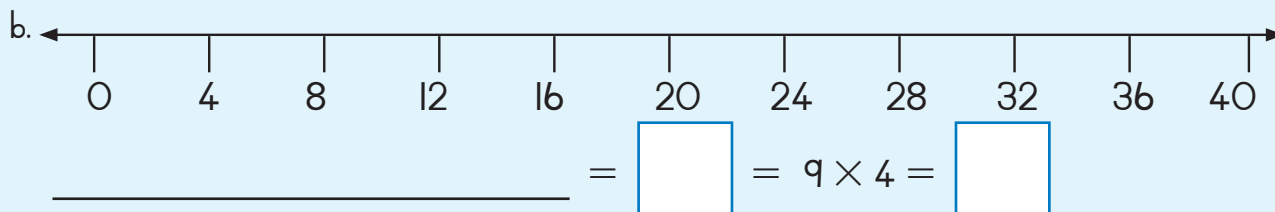
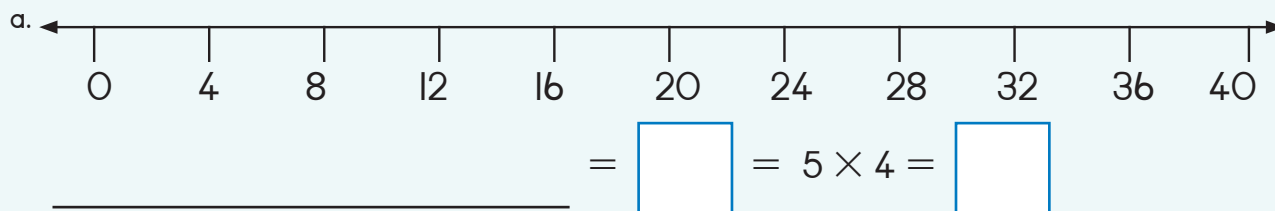
Hetisa tafula leri nga laha hansi. Tirhisa xikombiso ku ku letela.

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

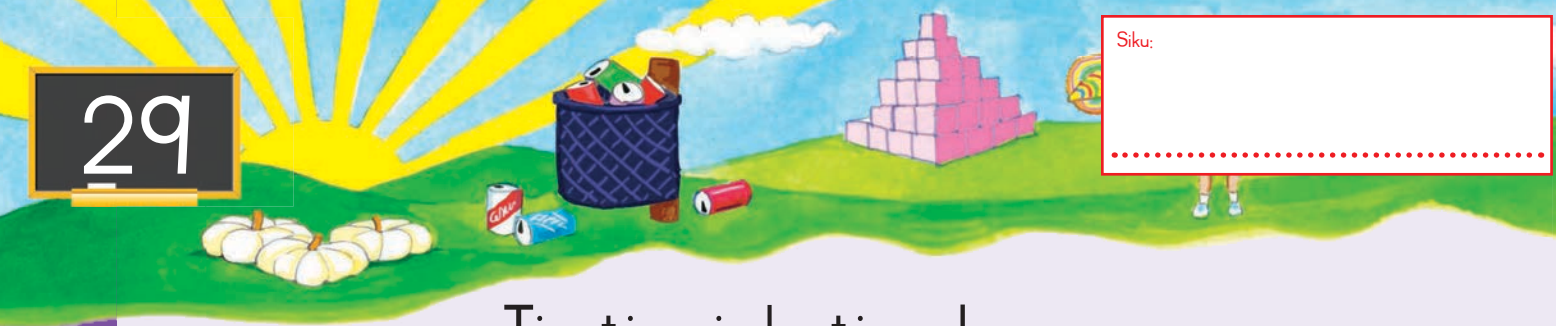


Mindzhati ya mitsengo

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



Teacher: _____
Sign: _____
Date: _____



Tipatironi eka tinomboro



Tipatironi ta giridi

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

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

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

a. Patironi: _____

[illegible]

b. Patironi: _____

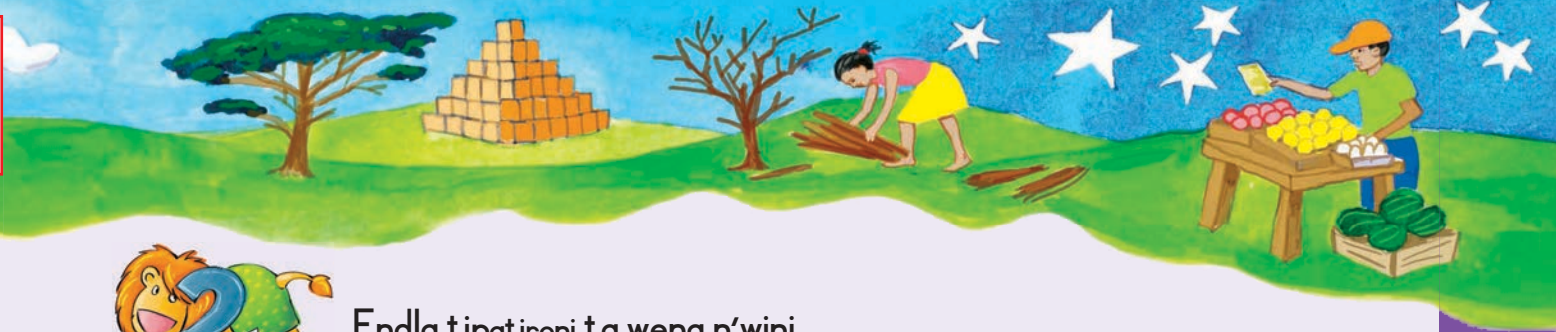
[illegible]

c. Patironi: _____

[illegible]

d. Patironi: _____

[illegible]



Endla tipatironi ta wena n'wini

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

				74				
--	--	--	--	----	--	--	--	--

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

				65				
--	--	--	--	----	--	--	--	--



Xana ti wela kwihi?

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

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



Elwandle

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

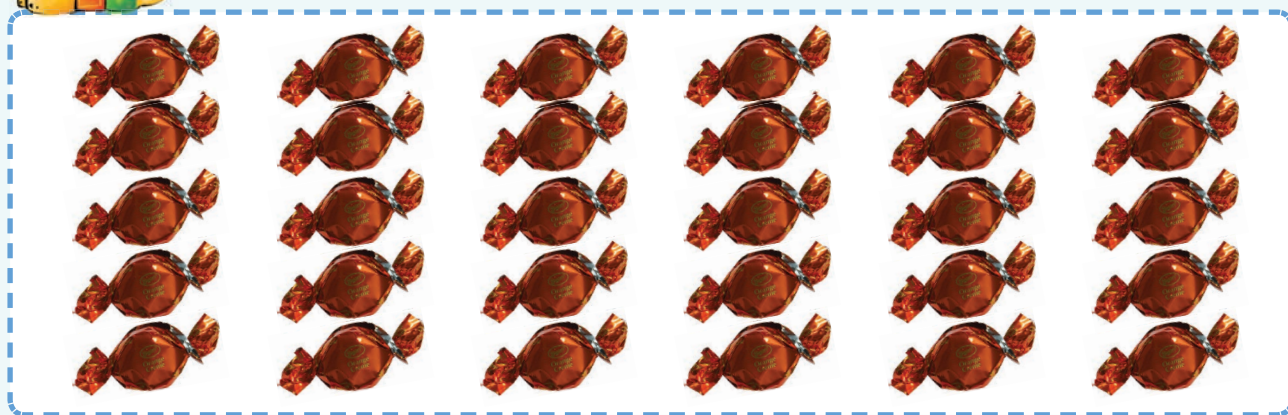


Teacher:
Sign:
Date:

Ku avanyisa



Ava swiwitsi



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



Hi nga yi tsala tanihi

$$30 \div 2 = 15$$

- b. Ava swiwitsi exikarhi ka 3 wa vana.



$$\div =$$

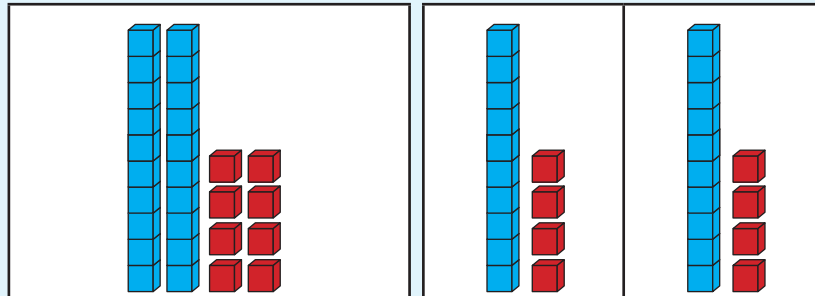
- c. Avanyisa swiwitsi exikarhi ka 5 wa vana.



$$\div =$$



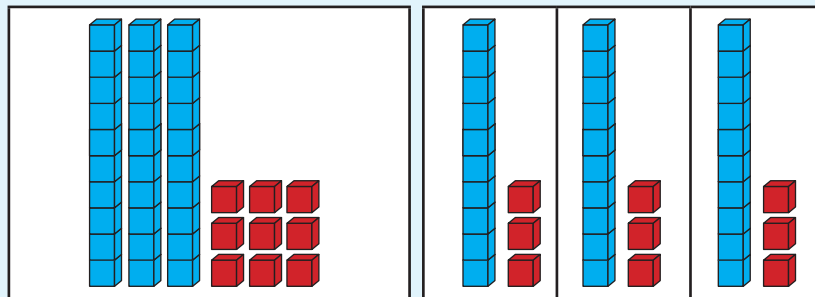
Hi nga tirhisa tibuloko ta tinomboro ku kota ku avanyisa.



$$\begin{array}{|c|c|} \hline 2 & 8 \\ \hline \end{array} \div \begin{array}{|c|} \hline 2 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 1 & 4 \\ \hline \end{array}$$

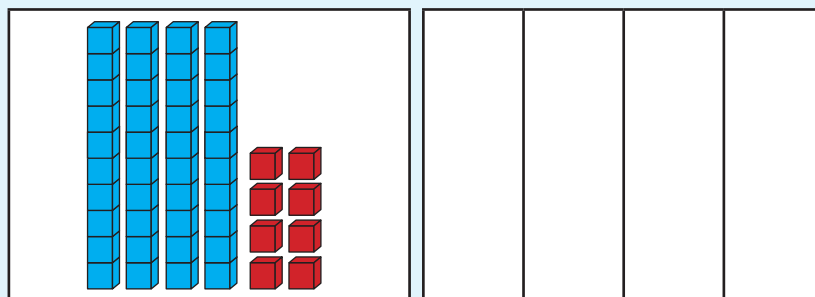
Sweswi endla leti.

a.



$$\begin{array}{|c|c|} \hline & \\ \hline \end{array} \div \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \begin{array}{|c|c|} \hline & \\ \hline \end{array}$$

b.



$$\begin{array}{|c|c|} \hline & \\ \hline \end{array} \div \begin{array}{|c|} \hline 4 \\ \hline \end{array} = \begin{array}{|c|c|} \hline & \\ \hline \end{array}$$



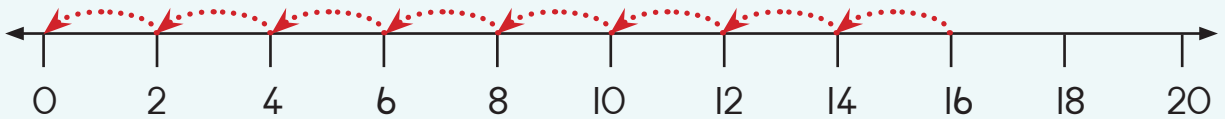
Teacher: _____
Sign: _____
Date: _____

Ku avanyisa (ku yisa emhlweni)



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

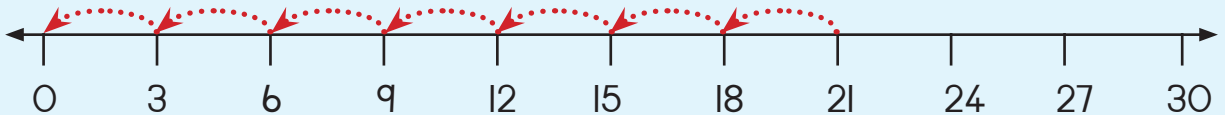
Xikombiso:



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

$$16 \div 2 = 8$$

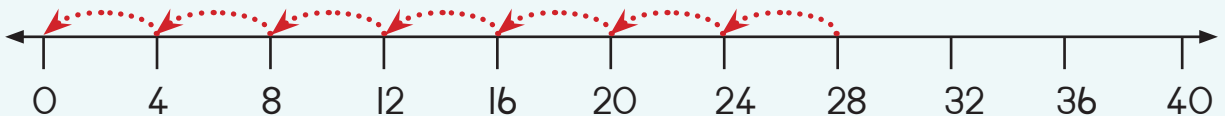
a.



$$21 - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\boxed{\hspace{1cm}} \div \boxed{\hspace{1cm}} = \underline{\hspace{2cm}}$$

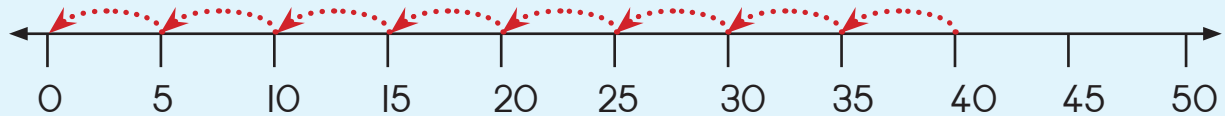
b.



$$28 - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\boxed{\hspace{1cm}} \div \boxed{\hspace{1cm}} = \underline{\hspace{2cm}}$$

c.



$$\underline{\hspace{1cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\boxed{\hspace{1cm}} \div \boxed{\hspace{1cm}} = \underline{\hspace{2cm}}$$



Dirowa ndzhati wa mitsengo u kuma nhlamulo.

a. $30 \div 5 =$



b. $22 \div 2 =$



c. $27 \div 3 =$



d. $32 \div 4 =$



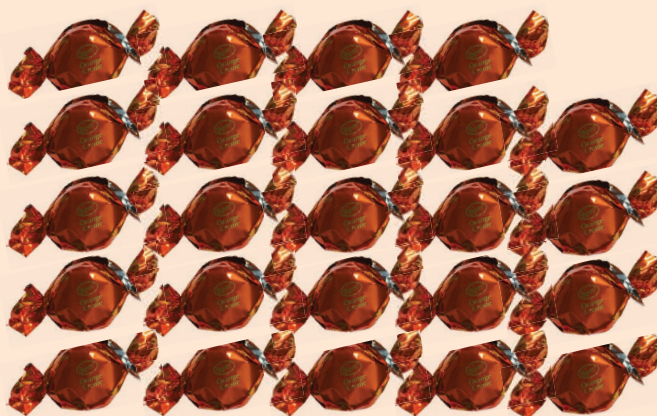
e. $25 \div 5 =$



Ntlhontlho

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

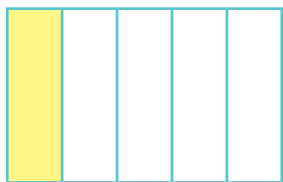
Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.



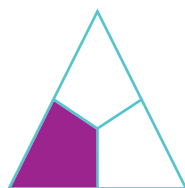
Teacher: _____
Sign: _____
Date: _____

Swiphemu

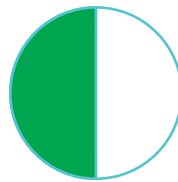
Dirowa mitila ku yelanisa xivumbeko na xiphemu.



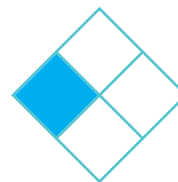
$\frac{1}{5}$ n'we-xa-nharhu



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



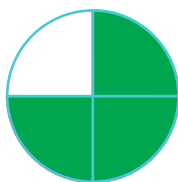
$\frac{1}{4}$ n'we-xa-mune



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



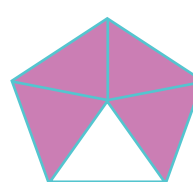
$\frac{3}{4}$ nharhu-xa-mune



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



1 xiheri

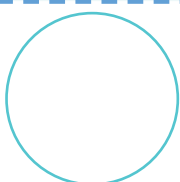


$\frac{2}{3}$ mbirhi-xa-nharhu

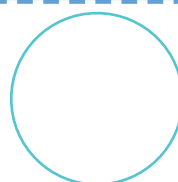
Khalara:



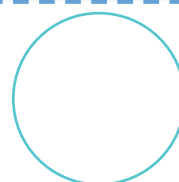
$\frac{1}{2}$ hafu yin'we



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

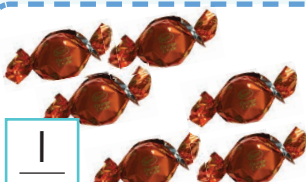


$\frac{1}{4}$ n'we-xa-mune

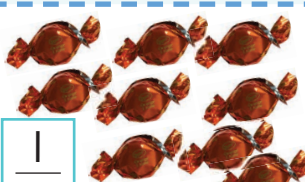


$\frac{1}{5}$ n'we-xa-ntlhanu

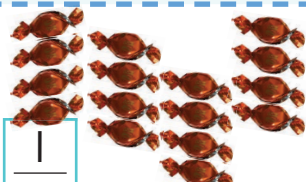
Kombisa _____ ya swiwitsi:



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



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



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



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



Ava swihlayelo exikarhi ka vana vambirhi.

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



Ava swiwitsi exikarhi ka vana.

 <table border="1" data-bbox="246 1344 616 1533"><tr><td>😊</td><td>😊</td><td>😊</td><td>😊</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	😊	😊	😊	😊					 <table border="1" data-bbox="906 1344 1273 1533"><tr><td>😊</td><td>😊</td><td>😊</td></tr><tr><td></td><td></td><td></td></tr></table>	😊	😊	😊			
😊	😊	😊	😊												
😊	😊	😊													
• kotara ya swiwitsi = 3 • n'we-xa-nharhu ya swiwitsi = ____ • mbirhi-xa-mune ya swiwitsi = ____ • mbirhi-xa-nharhu ya swiwitsi = ____	• nharhu-xa-mune ya swiwitsi = ____ • nharhu-xa-nharhu ya swiwitsi = ____ • mune-xa-mune ya swiwitsi = ____														





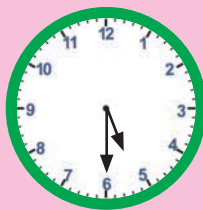
Fambelo ra wachi

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



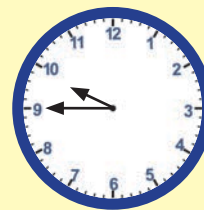
2:15

Kotara ku bile awara ya mbirhi



5:30

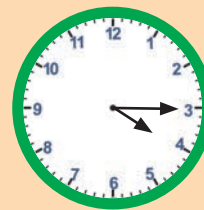
hafu ku bile awara ya ntlhanu



9:45

Kotara ku ya eka khume

Tsala leswi hi tindlela to hambana.



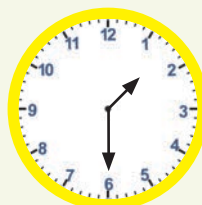


Ku ya ekaya

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

timinete

tiawara



Ben u suka exikolweni.



Ben u fika ekaya.



Nkarhi wa haha

Nkarhi hi vu-2 ...



Xana ku na ...

timinete tingani eka 2 wa tiawara? _____

tiawara tingani eka 2 wa masiku? _____

masiku mangani eka 2 wa mavhiki? _____

tin'hwetlwa tingani eka 2 wa malembe? _____



Xana i masiku mangani?

27 Dzivamisoko i Siku ra Ntshunxeko.

16 Khotavuxika i Siku ra Vantshwa.

Dzivamisoko						
M	R	R	R	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	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	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

- Ku suka eka Siku ra Ntshunxeko ku fika eka Siku ra Vantshwa ku na ____ wa tin'hwetlwa 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? _____

Kambisisa. Ringanisa.
Lulamisa.

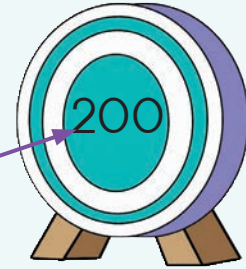
Teacher: _____
Sign: _____
Date: _____

Thagete ya 200



Ku hlayela tinomboro

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



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



Tsala tinomboro

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

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



Tsala tinomboro leti sijiweke.

a.

200		180			
					110
50					
				0	

b.

87		107	
167			
		207	
			237



Hetisa

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

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



Ku hlayela ku suka eka 100

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

Sungula

100	→ +25 →	125	→		→	129	→		→	138
-----	---------	-----	---	--	---	-----	---	--	---	-----

Heta

168	←		←	157	←		←	151	←		←	145
-----	---	--	---	-----	---	--	---	-----	---	--	---	-----



Teacher: _____

Sign: _____

Date: _____

Ku tirha hi mintlawo ya tinomboro



Ku paka makhandhlela

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



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

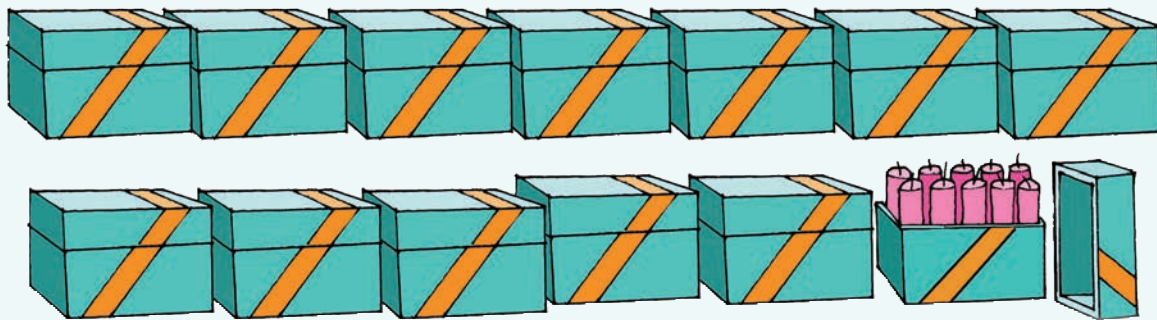
Xana ku na mabokisi mangani eka rhaka yin'wana na yin'wana? _____

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



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

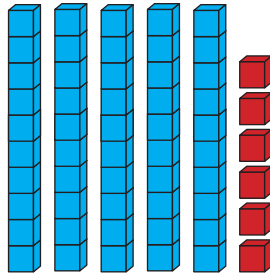


Ku veka vukhume kun'we na
ku byi hambanisa

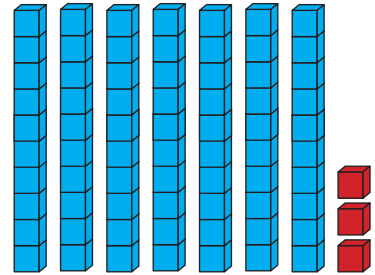


Ku veka vukhume kun'we loko hi hlanganisa

A hi hlanganise
 $56 + 73 =$



+



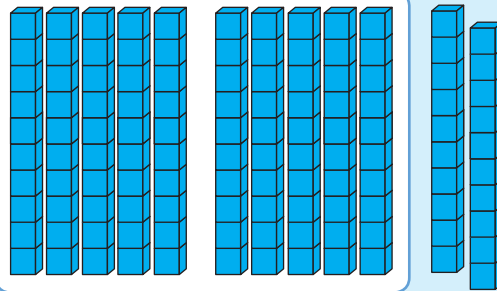
5 ya vukhume na 6 ya vun'we

7 ya vukhume na 3 ya vun'we

vu-100

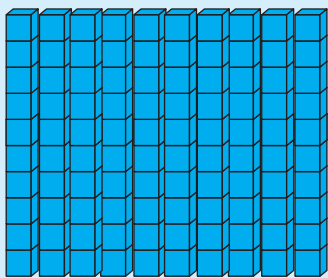
vu-10

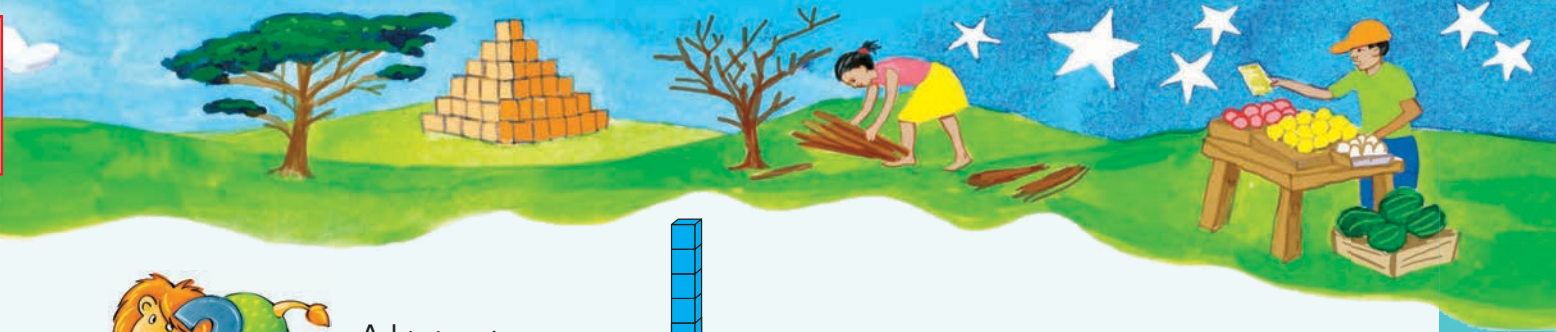
vu-1



Kun'we hi na 12 ya vukhume.

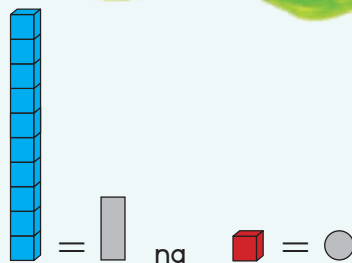
Hi nga veka 10 ya vukhume kun'we ku vumba dzana ri l.





A hi ringete.

Xikombiso: $82 + 34$



$$100 + 20 + 6 = 126$$

b. $65 + 52$

c. $76 + 63$

d. $86 + 65$



Teacher:

Sign:

Date:



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

Ku veka mintlawo swin'we

Tirhisa tibuloko ta wena ta nkoka wa ndhawu.

Tirhisa tibuloko ta beyisi ra khume ku endla tinomoro letimbirhi.	Hinkwato kun'we I vukhume byingani? I vun'we byingani?	Xana u ntlawahatile vukhume kumbe vun'we? Kambisisa nkoka wa ndhawu laha u nga vumba ntlawa nakambe.	Tsala nomboro.
$23 + 99 =$	_____ ya vukhume _____ ya vun'we	$11 \text{ ya vukhume} + 12 \text{ vun'we}$ $= 110 + 12$	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 won'wana hi fanele ku kombisa khume rin'we tanihi vun'we bya khume, kumbe dzana rin'we tanihi 10 ya vukhume.

A hi suse: $60 - 55 =$

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

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



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	



Teacher:

Sign:

Date:



Rendzo ro ya eka n'anga ya meno

Ntlawa wa vana wu endzela n'anga ya meno.



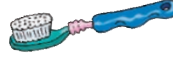
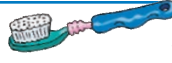
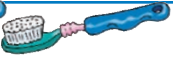
Xana u buracha meno ya wena kangani hi siku?

Leswi vana va yi byelaka swona hi leswi.



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

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

 Kan'we hi siku	
  Kambirhi hi siku	
   Kanharhu hi siku	

- b. Xana u nga vula yini?

Vana vo tala va buracha meno _____ hi siku.

Ku na _____ wa vana entlaweni.



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

 = kan'we



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

a. Xana va buracha meno kangani hi siku? _____

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



Hlanganisa u tlhela u katsa



Ku tsala nhlayo ya wena

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

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

$$\begin{array}{|c|c|c|} \hline 5 & 0 & 6 \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline 7 & 0 & 3 \\ \hline \end{array}$$

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

U tiva leswaku: $50 + 70 = 120$.

U teka khadi ra **vudzana**, ra vu-20 na ra vu-9 ku endla nomboro ya 3 wa tidijiti.

9

$$\begin{array}{|c|c|c|} \hline 1 & 0 & 0 \\ \hline \end{array} \begin{array}{|c|c|} \hline 2 & 0 \\ \hline \end{array} \begin{array}{|c|} \hline 9 \\ \hline \end{array}$$

U tsale hi ndlela leyi:
 $50 + 70 + 6 + 3$
 $= 50 + 70 + 9$
 $= 120 + 9$
 $= 100 + 20 + 9$
 $= 129$

Tumi u tiva leswaku tibuloko ti tirha hi ndlela yihi.

U endla $56 + 73$ hi ndlela leyi:

$$\begin{array}{r} 50 + 6 + 70 + 3 \\ \hline 120 + 9 \\ \hline = 129 \end{array}$$



Aakar u rhandza ku katsakanya.

Hi lawa matirhele ya yena eka leyi:

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





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: _____



Hlanganisa u tlhela u katsa (ku yisa emahlweni)

Sweswi a hi suseni.

a. $87 - 53$

Maendlele ya Busi

$$80 - 50 + 7 - 3$$

$$= 30 + 4$$

$$= 34$$



Maendlele ya Tumi's

$$80 + 7 - 50 + 3$$

$$= 30 + 4$$

$$= 34$$



b. $95 - 73$

c. $86 - 62$

d. $85 - 69$



Xi lulamise!

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

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



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



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



Xi lulamise!



Swipfalo swa mabodhlela

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



Siphon



Andile

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



Khonsati ya xikolo



Musa



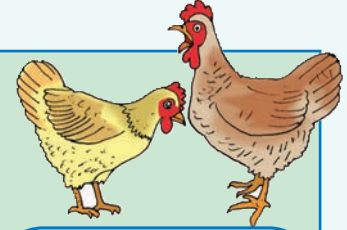
Musa u xavisa mathikithi. U na 92 ya mathikithi yo sungula hi wona. U na 67 lama saleke.
Xana Musa u xavisile mathikithi mangani ku fika sweswi?



Ku titoloveta kun'wana



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



Xana wa swi tiva leswaku hikwalaho ka yini?

Maendlele ya Gugu

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



Maendlele ya Aakar

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



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

Tirhisa maendlele ya Gugu

Tirhisa maendlele ya Aakar

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

Tirhisa maendlele ya Gugu ku kambisisa.

Tirhisa maendlele ya Aakar



Hlayela no khakhuleta



Ku kuma xiphemu

Tsala tinomboro leti siyiweke.

- a.

100	
	27
- b.

100	
39	
- c.

100	
43	
- d.

100	
56	
- e.

200	
140	
- f.

200	
	110
- g.

200	
135	
- h.

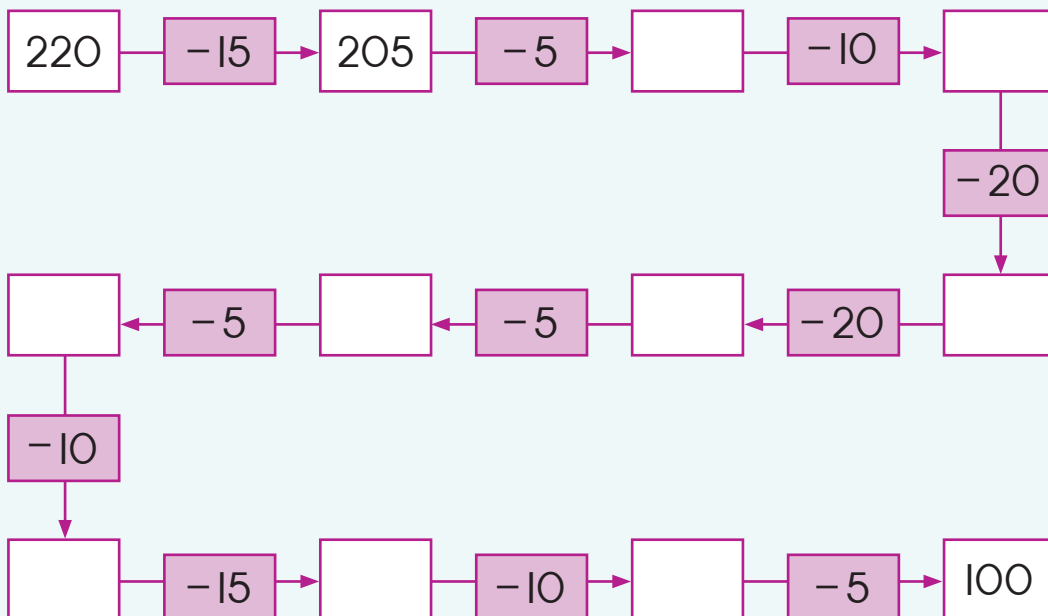
200	
	120



Ku susa ku suka eka 220 ku ya eka 100

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

Hi ku endlele yo sungula.



Hi leyi ndlela
yo kambisisa
tinhlamulo ta
wena!

Sungula eka
100! Tirha u
ya endzhaku eka
220.

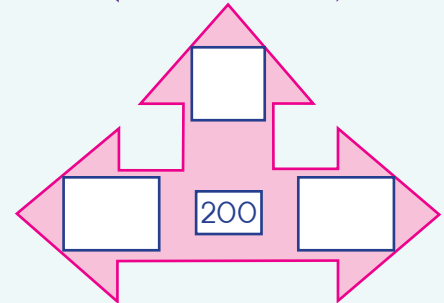
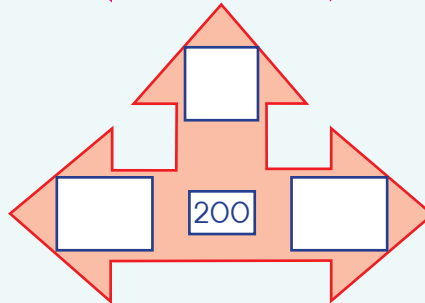
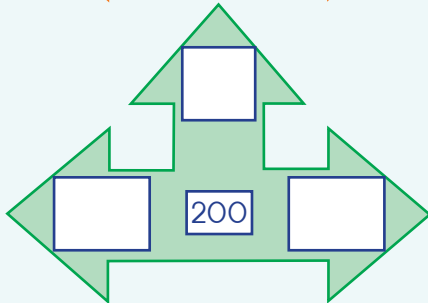
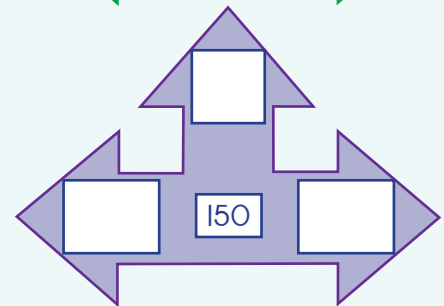
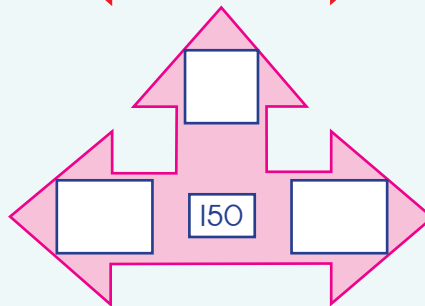
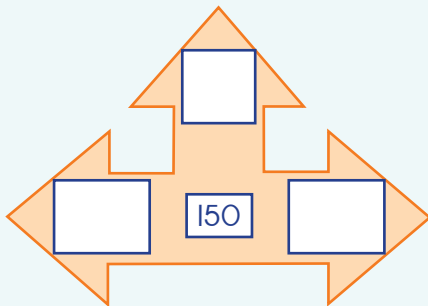
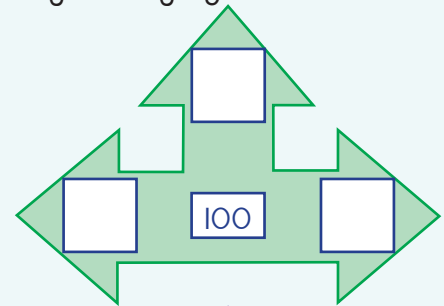
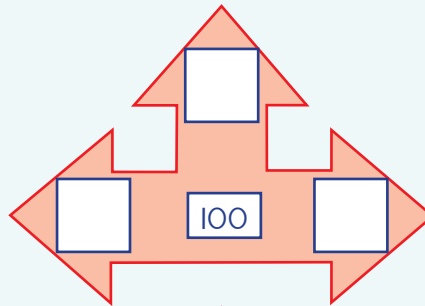
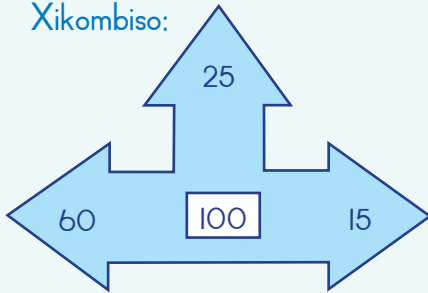
Kambe eka
nkarhi wa sweswi,
hlanganisa
tinomboro!



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.

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



Teacher: _____
Sign: _____
Date: _____

Ku pima hi tisentimitara



Xana sentimitara i yikulu ku fika kwihi?



Tinomboro eka rhula ti yimela tisentimitara.

Hi tirhisa nkomiso kumbe mfungho wa cm.

Loko u tirhisa rhula, u fanele ku sungula ku pima eka O.

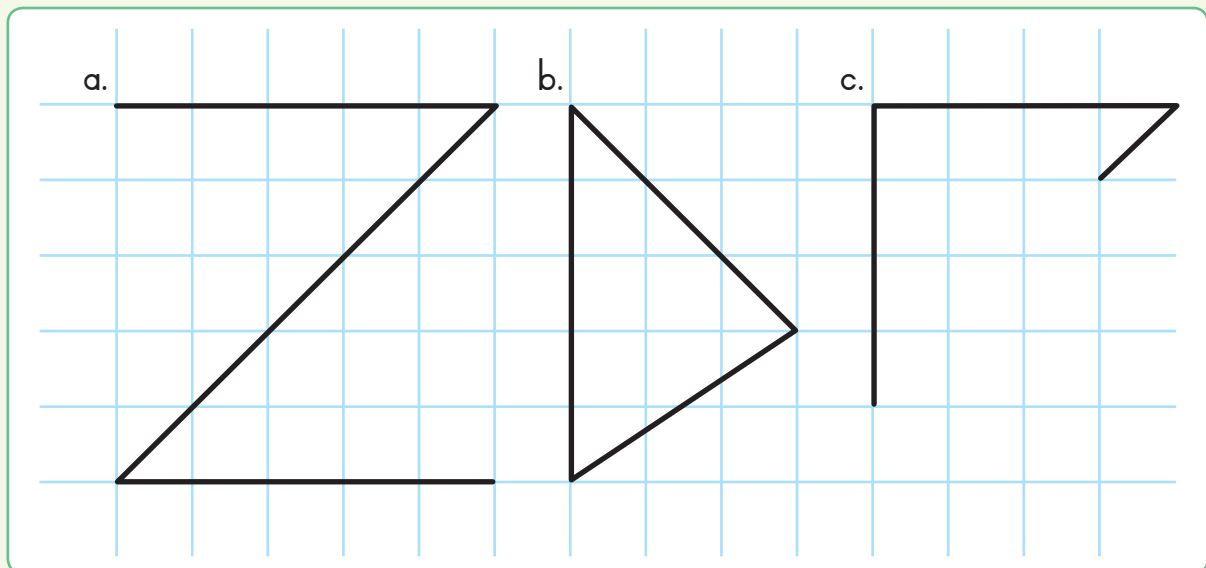
Tirhula tin'wana a ti kombi O ku fana na leyi nga eka pheji leyi.

Kuma ziro cm eka rhula. Tsala O eka rhula.

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



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



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



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

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

Tirhisa rintihlo ra wena ku ku pfuna ku kuma nhlamulo.

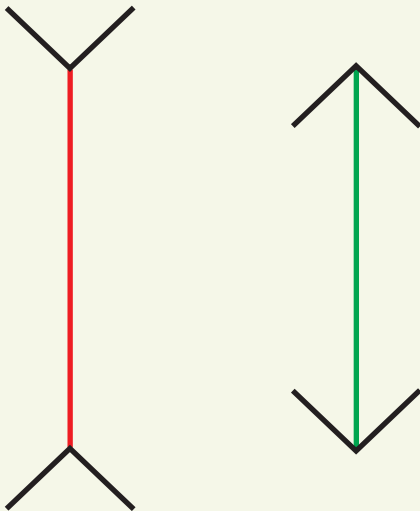
a. _____ cm	d. cm
b. _____ cm	e.  cm
c. _____ cm	f.  cm



Xana wa tshemba?

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

Xana u nga kambisisa njhani?



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



Teacher: _____
Sign: _____
Date: _____



Siku:

Thagete ya 300



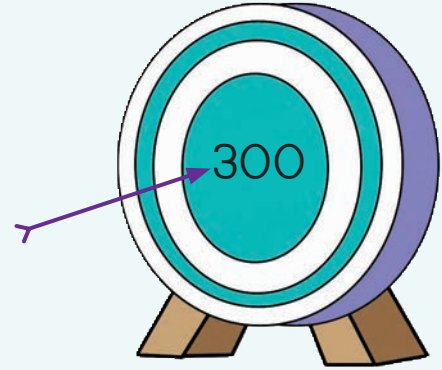
Ku hlayela no tsala vu - 200

Hlayela ku suka eka 201 ku fika eka 300.

Kombetela loko u karhi u hlayela u ya emahlweni.

Kutani tata tinomboro ta wasi ku sungula.

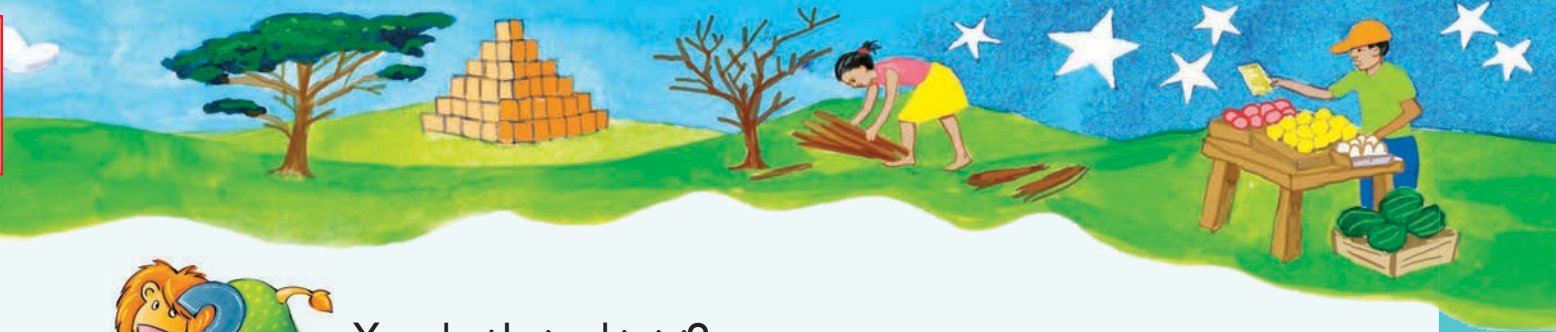
Tsala tinomboro letin'wana hinkwato.



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

Tsala IO ya tinomboro endzhaku ka 300.

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



Xana ku tluriwe hi yini?

301		281					
		171					211
					101		



Ku kombisa no ringanisa

a. Tsala tinomoro leti ngenaka eka khadi rin'wana na rin'wana.

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

200						
90						
8						

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

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



Hi kwihi ku cinca? Tsala tinomoro leti siyiweke.

Sungula

200	+25	225		237		249

Heta

300		286		278		261

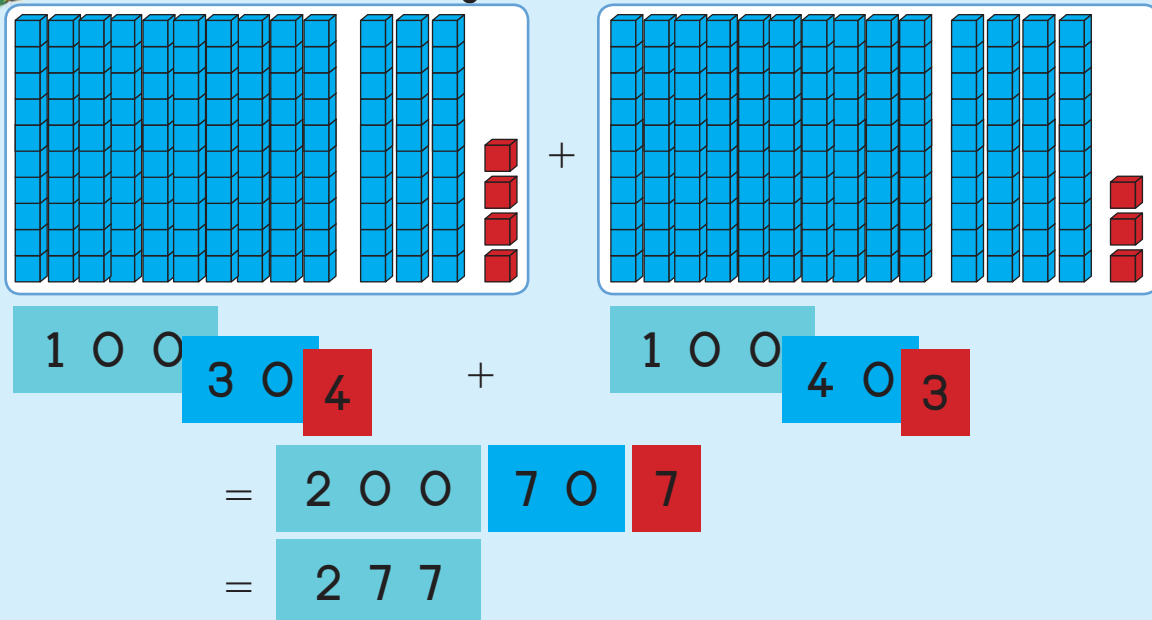


Teacher: _____
Sign: _____
Date: _____

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

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

b. $114 + 162$



c. $276 + 148$



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

a. $158 - 146$

Maendlele ya Busi

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



Maendlele ya Tumi

$$\begin{aligned} &158 - 146 \\ &= 0 + 10 + 2 \\ &= 12 \end{aligned}$$



b. $194 - 122$

c. $288 - 199$



Teacher: _____

Sign: _____

Date: _____

Thagete ya 400

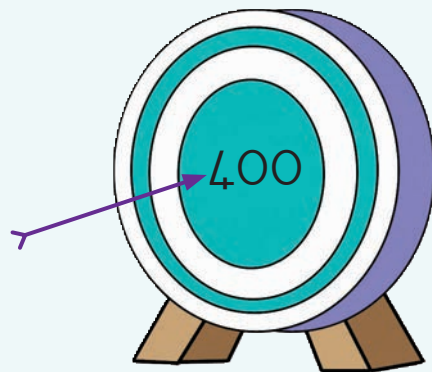


Ku hlayela no tsala vu-400

Hlayela ku suka eka 300 ku fika eka 400.

Vula tinomboro loko u ri karhi u hlayela.

Tsala nomboro leyi siyiweke eka giridi.

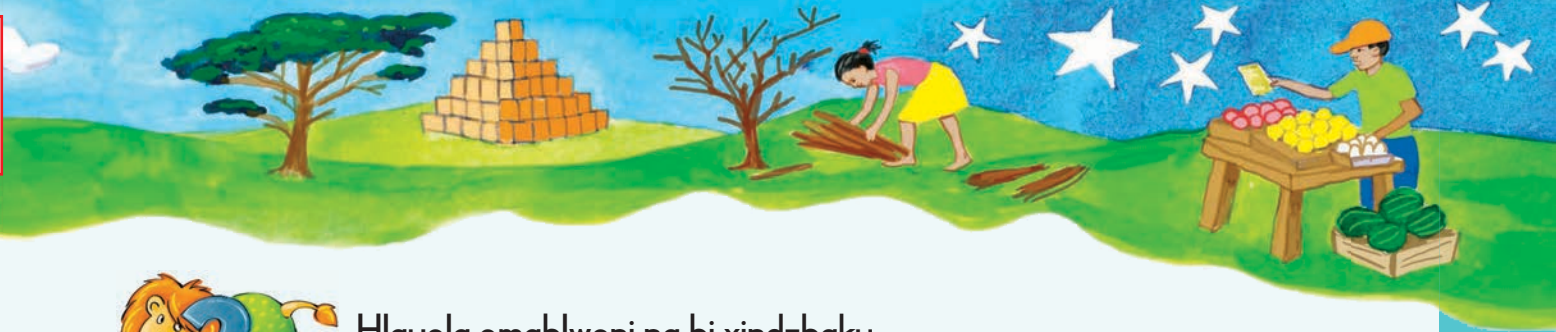


301									310
				315					
									330
331				335					
								249	
				365			368		
		273							
									390
									400



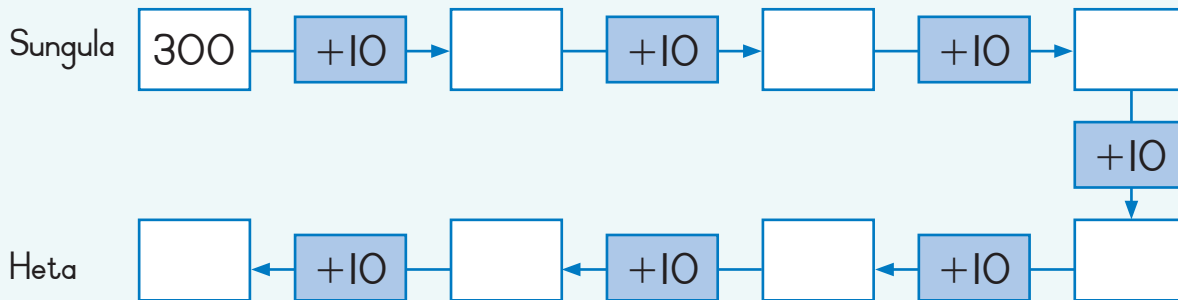
Tsala 9 ya tinomboro leti landzelaka endzhaku ka 400.

400; ____; ____; ____; ____; ____; ____; ____; ____; ____;

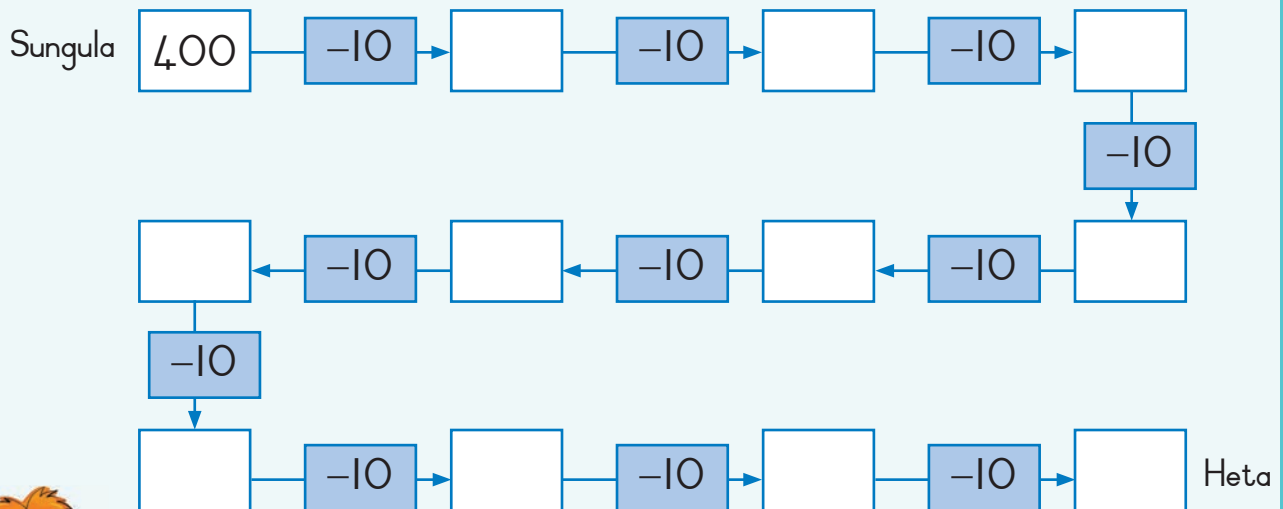


Hlayela emahlweni na hi xindzhaku

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



b. Hlayela ku suka eka 400 hi vukhume.



Tsala tanihi nomboro yin'we.

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

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

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

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

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

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

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

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

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

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

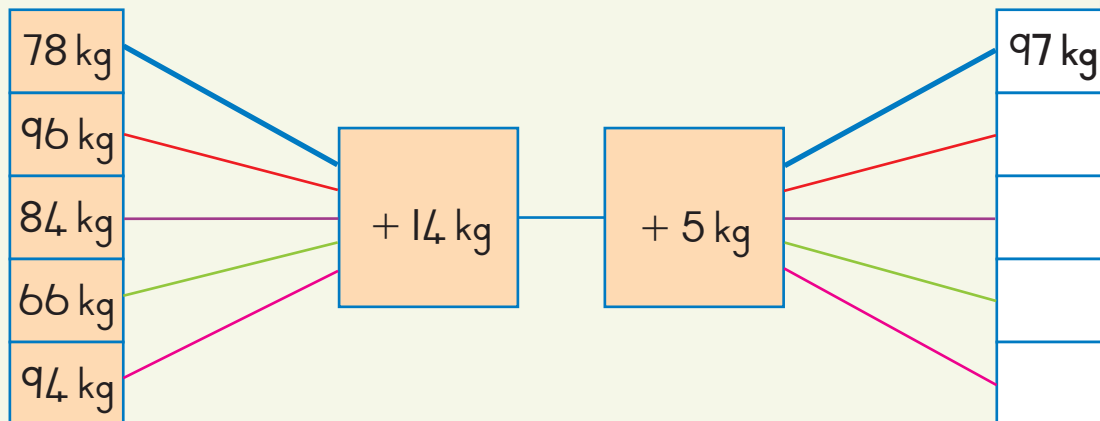


Ku pima



Nomboro yo hlawuleka

Hlanganisa u tlhela u tsala tinhlamulo.



Yisa eka khume ra le kusuhi kutani u hlanganisa!

Ehleketa khwatsi!

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

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

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

Pimanyeta ntsengo wa ntiko wa 5 wa swiharhi.



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

Kambisisa. 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: _____

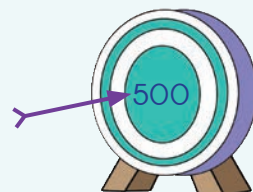
Date: _____



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

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

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

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

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

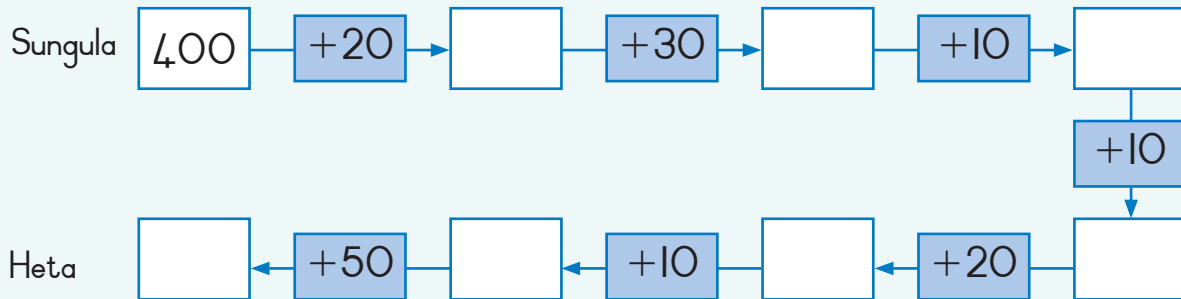
- Hlayela hi vu-5. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

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

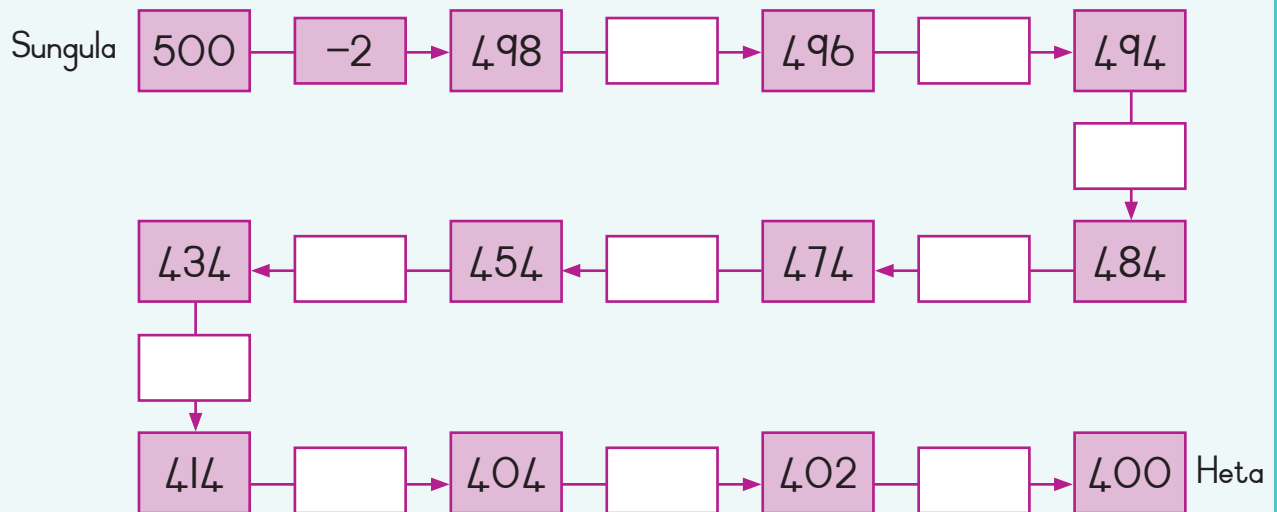


Xana ku cinca hi kwihi?

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

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

Teacher: _____
Sign: _____
Date: _____

Ku hlanganisa no susa kun'wana

2 0 0

5 0

4

2 0 0

3 0

5

4 0 0

8 0

9

4 8 9



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

a. $245 + 231$

Maendlele ya Busi

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

$$= 400 + 70 + 6$$

$$= 476$$



Maendlele ya Tumi

$$245 + 231$$

$$= 400 + 70 + 6$$

$$= 476$$



b. $278 + 136$

c. $265 + 148$



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

a. $476 - 324$

Maendlele ya Busi

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



Maendlele ya Tumi

$$\begin{aligned} &476 + 324 \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$

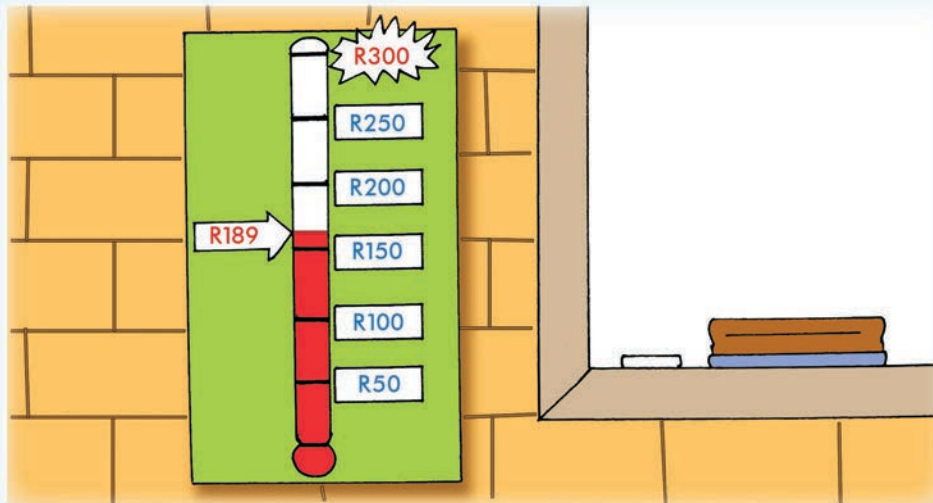


b. $489 - 456$

c. $482 - 161$



Ku fikelela thagete



Xiyisisa xifaniso.

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



Teacher: _____
Sign: _____
Date: _____



Ntshava ya xihundla

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

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

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

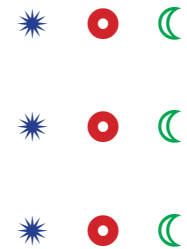
Vito ra ntshava i



Languta! Ehleketa no hlamula!



- a. Xana nomboro ya 16 yi ta va ya xivumbeko xihhi?
Fungha (✓) eka lexi nga xona.
- Xana nomboro ya 18 yi ta va ya xivumbeko xihhi?
Fungha (✓) eka lexi nga xona.
- Xana nomboro ya 23 yi ta va ya xivumbeko xihhi?
Fungha (✓) eka lexi nga xona.



- b. Nomboro ya 50 yi ta va *.

Hi swona kumbe A hi swona?

Nomboro ya 100 yi ta va ●.

Hi swona kumbe A hi swona?

Nomboro ya 28 yi ta va ☾.

Hi swona kumbe A hi swona?



Hi yihi leyi nga tala?

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

Kumbe ku amukela R150 hi siku
ra l Mhawuri.

Kombisa matirhele ya wena.

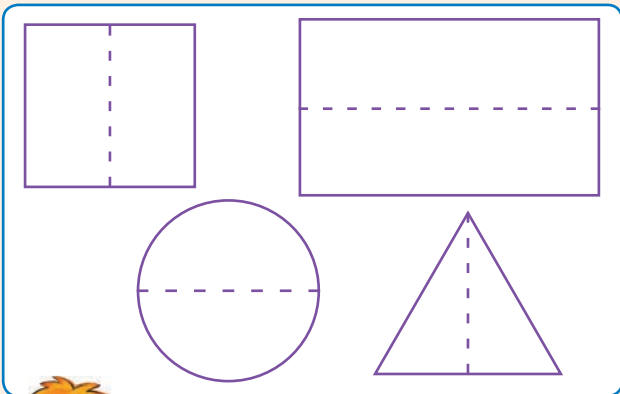
Kambisisa. Fananisa. Lulamisa.



Teacher:
Sign:
Date:

Ndzingano

Xana u lemuka yini hi swivumbeko leswi?



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

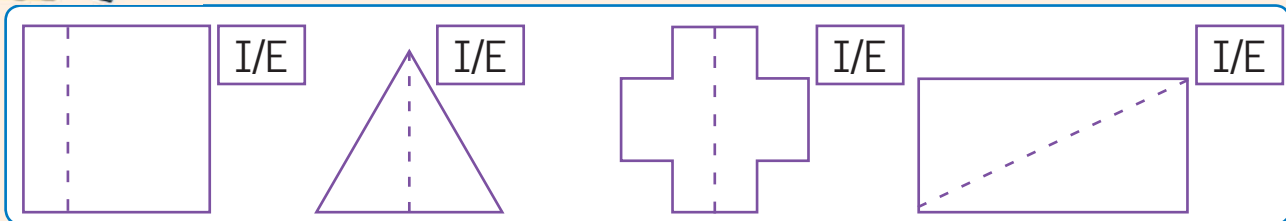
Xivumbeko xi na ndzingano loko u xi petsa eka ntila wa ndzinganiso leswaku tihafu letimbirhi ti ta yelana hi nkhaqato.



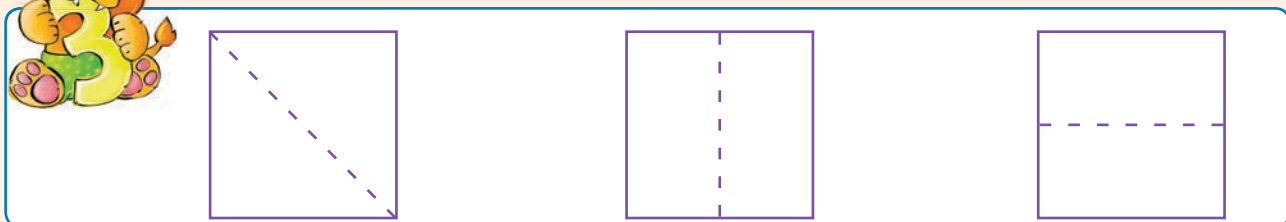
Dirowa ntila wa ndzinganiso eka xivumbeko xin'wana na xin'wana?



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



Xana lowu i ntila wa ndzinganiso? Hikwalaho ka yini?

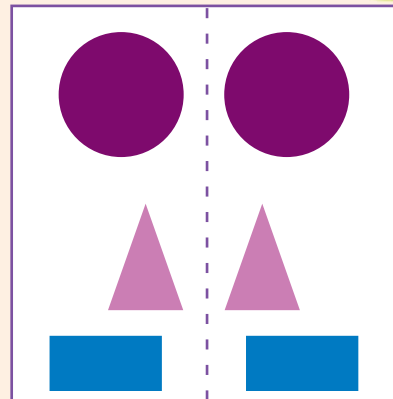




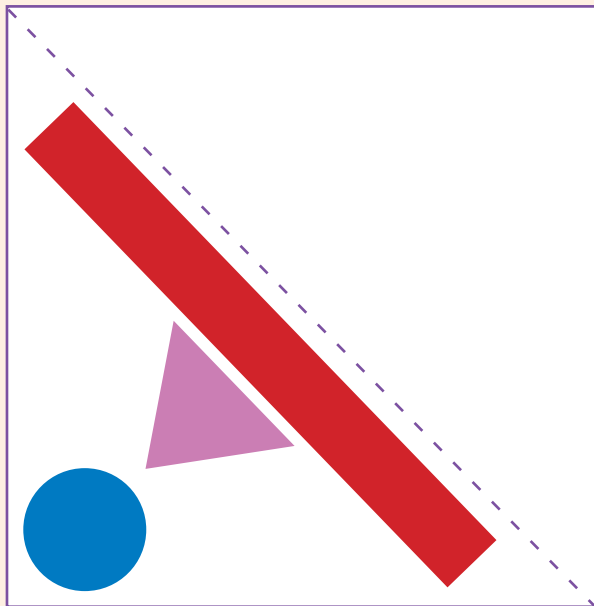
Dirowa swivumbeko ku endla leswaku xifaniso xi va na ndzingano.

Hi ku endlele xo sungula.

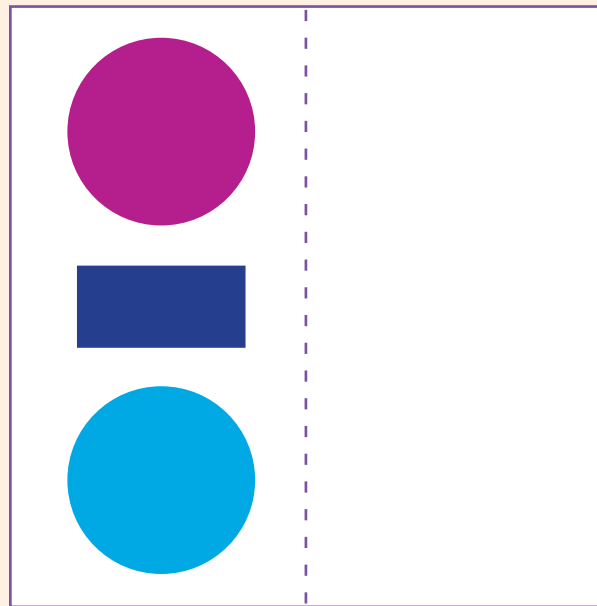
a.



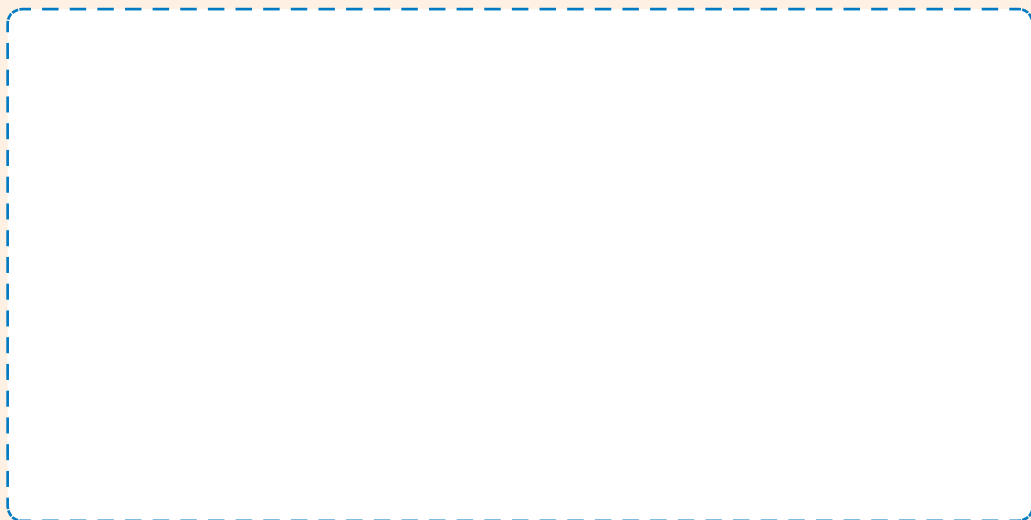
b.



c.



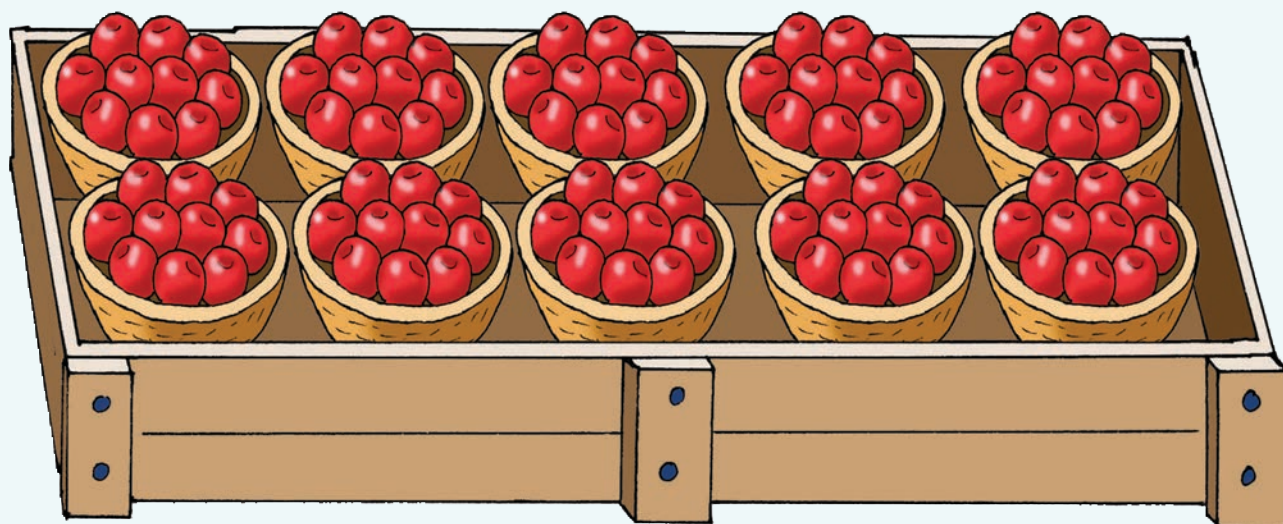
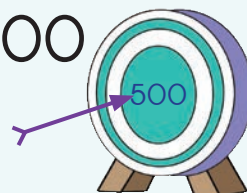
Tumbuluxa khapete ya wena ya ndzingano hi ku tirhisa swivumbeko.



Ku aka ku fika eka 500



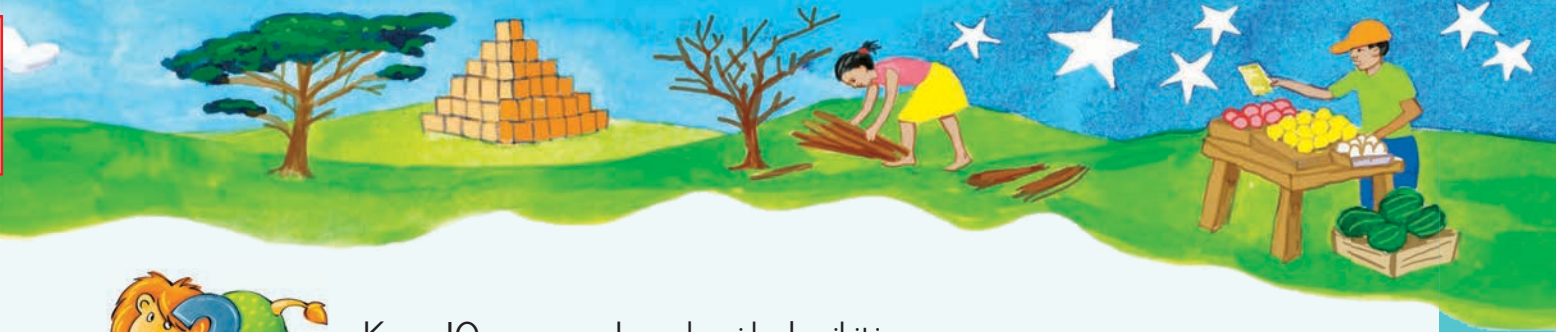
Ku hlayela maapula



Hetisa u tlhela u andzisa

1 khireti yi khoma _____ wa maapula.	$1 \times 10 = 10$
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 tibasikiti ti khoma _____ wa maapula.	

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

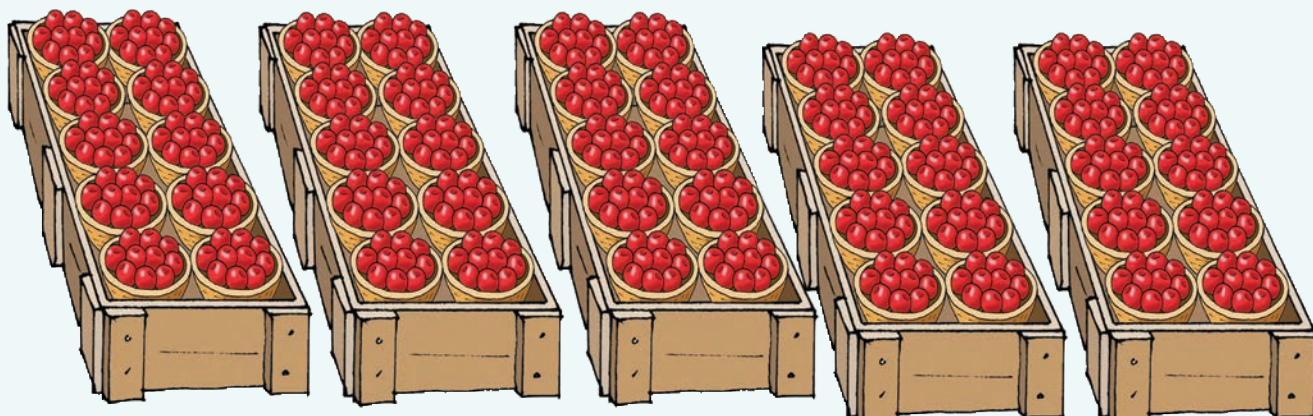


Ku na 10 wa maapula endzeni ka basikiti.

Ku na _____ wa tibasikiti eka khireti yin'we.

Ku na _____ wa maapula eka khireti yin'we.

Xana ku na maapula mangani hinkwawo ka wona? _____



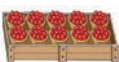
Ku khakhuleta, ku kombisa no tsala

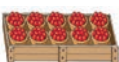
300

40

5

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

3 wa tikhireti  + 4 wa tibasikiti  + 5 wa maapula  = 345 wa maapula

4 wa tikhireti  + 5 wa tibasikiti  + 7 wa maapula  = ___ wa maapula

5 wa tikhireti  + 2 wa tibasikiti  + 3 wa maapula  = ___ wa maapula

4 wa tikhireti  + 7 wa tibasikiti  + 2 wa maapula  = ___ wa maapula



Teacher: _____
Sign: _____
Date: _____

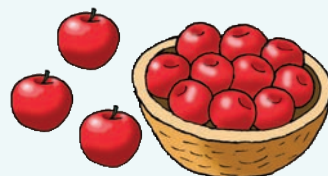
Ku andzisa no avanyisa (10)



Ku hlayela maapula

Tata tafula.

Xana i tibasikiti tingani leti nga na maapula?

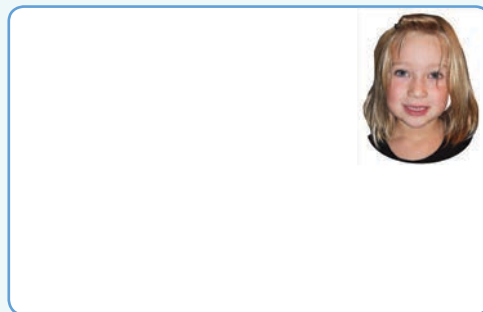
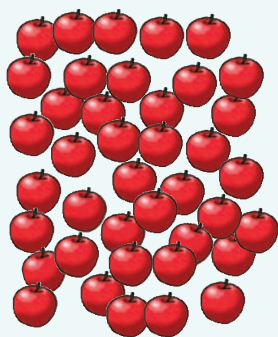


Maapula 	10	20	30	40	50
Tibasikiti 	1	2			
Nhlayo ya ÷					$50 \div 10 = 5$
Nhlayo ya ×					$5 \times 10 = 50$



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

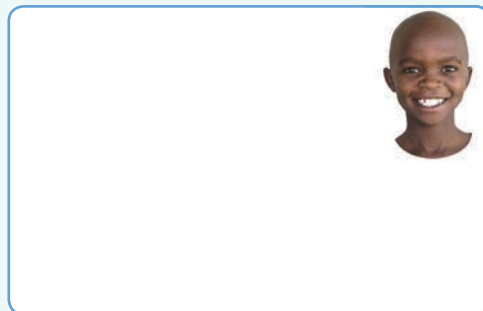
a.



Kambisisa
tinhlamulo ta wena

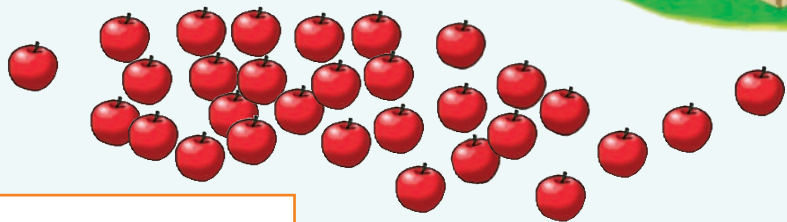
$$\square \div \square = \square$$

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





b.



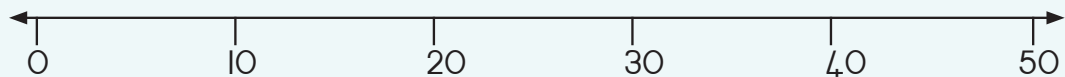
Tsala nhlayo ya $\div$



Tsala nhlayo ya
 $\times$ ku kambisisa
tinhlamulo ta wena



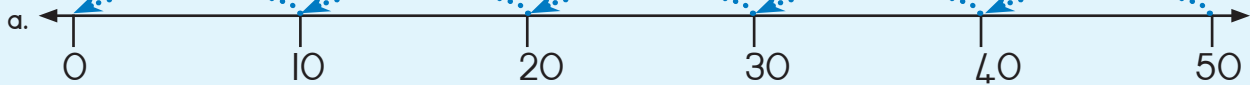
Tirhisa tinomboro ku endla swivulwa swa wena swa tinomboro.



Xikombiso

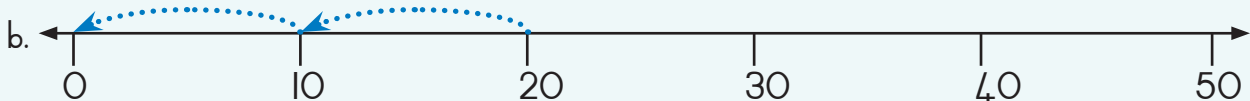
$\div$ $40 \div 10 = 4$

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



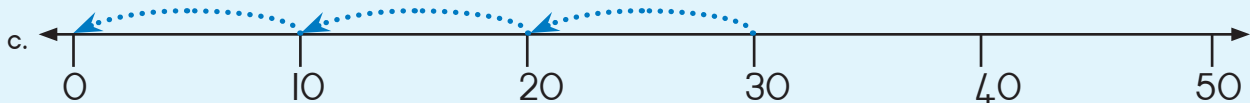
$\div$

$\times$



$\div$

$\times$



$\div$

$\times$



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

_____, 460, _____

_____, 390, _____

_____, 500, _____

Teacher:

Sign:

Date:



Hlayela hi vu-2

Ku hlayela emahlweni na hi xindzhaku hi vu-2

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



Tiphere ta
magilavhu



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



Xana i magilavhu mangani?

Tsala ematafuleni.

a.

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

b.

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



Hlayela hi vumbirhi

a. Hi yihi nomboro leyi ngenaka exikarhi?

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

b. Tsala tinomboro timbirhi leti landzelaka.

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

c. Tsala tinomboro timbirhi leti landzelaka.

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





Ku kunguhata xirhapa

Manana Mabena u na tithayeke to saseka.

U ti tirhisa ku pheiyvha ndhawu exirhapani xa yena.

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

Xana ndzi ta ti veka njhani?

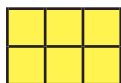


Ndzi endla 1 rixaxa hi 6 wa tithayeke.



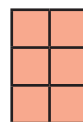
$$6 \times 1 = 6$$

Ndzi nga endla 2 wa tinxaxa hi 3 wa tithayeke eka rixaxa.



$$3 \times 2 = 6$$

Ndzi nga endla 3 wa tinxaxa hi 2 wa tithayeke eka rixaxa rin'wana na rin'wana.



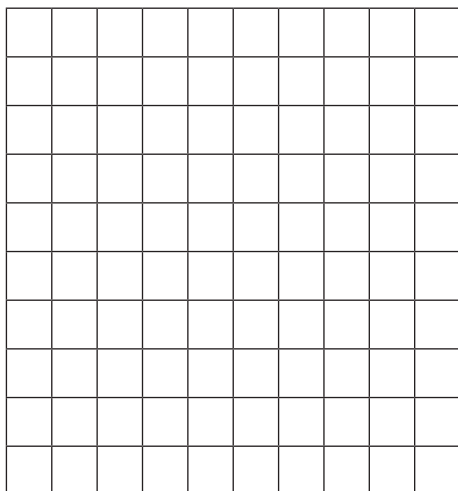
$$2 \times 3 = 6$$

Sweswi i nkarhi wa wena!

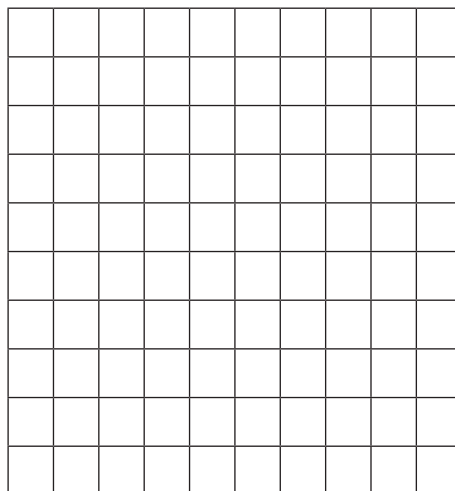
Dzwihata tibuloko ku kombisa leswi u nga vekisaka xiswona tithayeke ta 8 na 9 wa swikwere.

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

8 wa swikwere



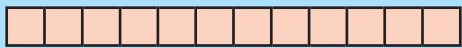
9 wa swikwere





Veketela 12 wa tithayeke

Thabo u na tithayeke 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 tithayeke

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



Ndzi nga andzisa!

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

Teacher:
Sign:
Date:

Hi vu-5 ku fika eka 500



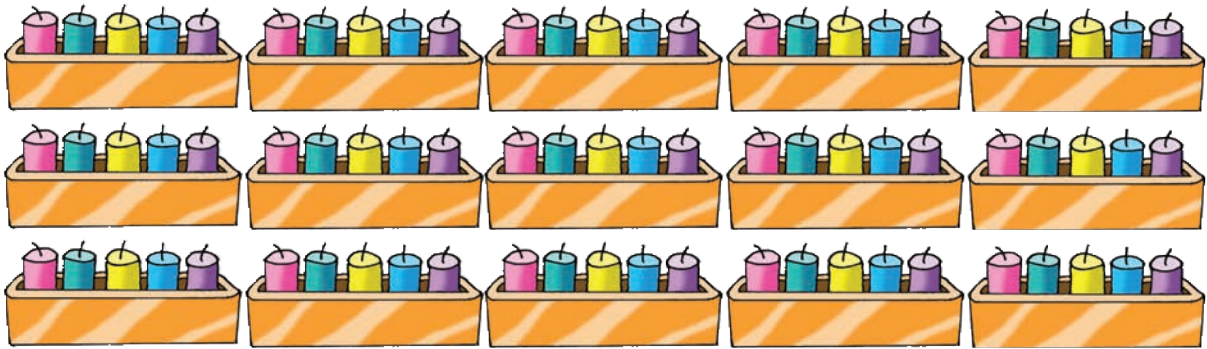
Ku tiva vu-5 bya wena

Tata tinhlamulo.

	1	2	3	4	5	6	7	8	9	10
× 5	5									



Ku hlayela makhandhlela



- 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 hlalela emahlweni na hi xindzhaku hi vu-5

- a. 85; _____; _____; 70; _____; _____; 55; _____; _____
- b. 240; _____; _____; 255; _____; _____; _____; _____; 280
- c. 405; _____; 395; _____; _____; 380; _____; _____; 365; _____



Ku hlangeleta tikhoyini ta R5



Vana va hlangeleta 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? _____

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

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

Xana wa yi vona patironi?

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

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



Ku andzisa hi vu-5

Xikombiso: $1 \times 5 = 5$; $11 \times 5 = 55$; $21 \times 5 = 105$

Ehleketla khwatsi! Aka ehenhla ka leswi u swi tivaka!

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





Ku tirha hi nkarhi



Dirowa minkarhi



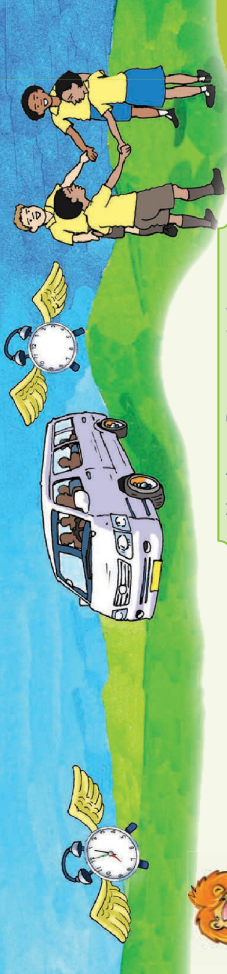
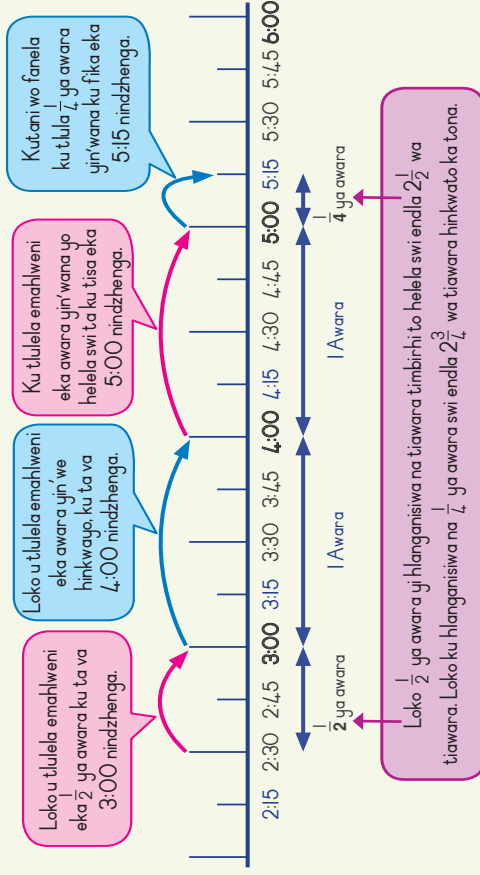
Hafu ku bile awara ya 5	Kotara ku ya eka awara ya khume'we	Kotara ku bile awara ya 12	12:45	6:15	4:30						



Xiphiso xa nkarhi

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

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



Swiphiso swa nkarhi

Kambisisa. Ringanisa. Lulamisa.

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

a. Sasavona u endzela tata wakwe etulinkhi hi 15:45 nindzhenga.

U suka hi 7:15 nindzhenga.

Xana u va a endzile nkarhi wo tanihi kwihi?

b. Musa u ya ephakeni hi 10:45 nimixo.

U vuya ekaya hi 12:30 ninhlekanhi.

Xana u va a fambile nkarhi wo tanihi kwihi?

c. Tumi u sungula ku hlaga hi 13:15 nindzhenga.

U heta hi 14:45 nindzhenga.

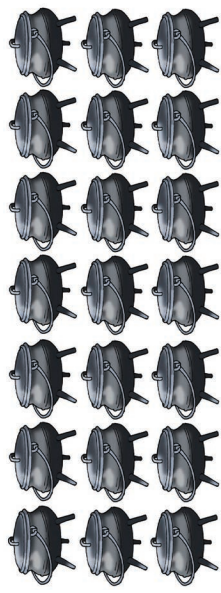
Xana Tumi u hlaga nkarhi wo tanihi kwihi?

Hlayela hi vu-3 na vu-4



Mapoto ya 3 wa milenge

Hlanganisa kutani u tsala nhlamulo



a. Xana ku na mapoto mangani erixaxeni? _____

b. Xana ku na milenge yingani erixaxeni? _____

c. Xana ku na tinxaxa tingani ta mapoto? _____

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

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

$$21 \times 7 = \square \quad 3 \times 7 \times 3 = \square \quad 3 \times 4 \times 2 = \square \quad 21 \times 3 = \square$$



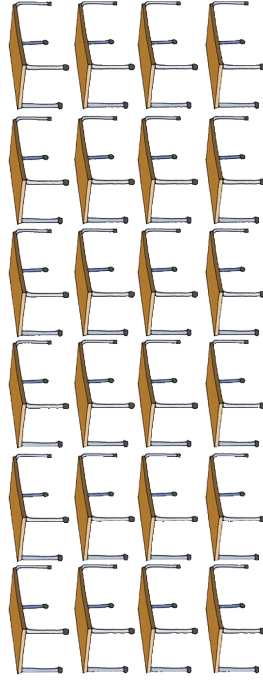
Xana ku na milenge yingani?

Ehleketi hi xihatla
Ehleketi khwatsi.

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



Milenge ya matafula



a. Xana ku na matafula mangani erixaxeni? _____

b. Xana ku na milenge yingani erixaxeni? _____

c. Xana ku na tinxaxa ta matafula tingani? _____

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



Efemeni



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

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

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



Hetisa giridi hi ku tata tinhlamulo

$\times 3$	2	3	4	5	8	10	11	12
$\times 4$	6							
	8							

Hlayela hi vu-50

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

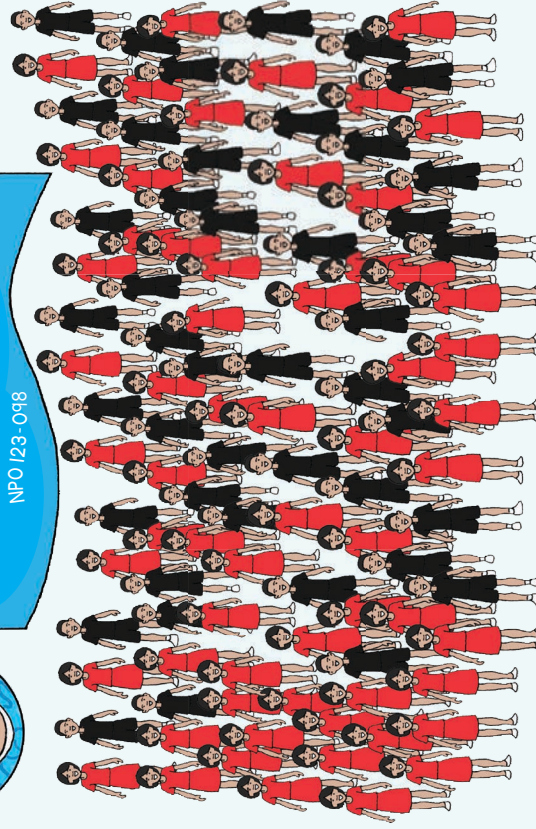
Xana ku na vana vangani? Pimanyisa, kutani u hlayela.



Nkumba wo nyika ntshembo

Kufumeta vana va hina

NPO 123-098



Vana hinkwavo exifanisweni va amukela nkumba.

Xana ku na vana vangani? _____

Pimanyisa	Hlayela	Fananiisa
Xana ku na vafana vangani 😊? _____ Xana ku na vanhwanyana vangani 😊? _____		



Xana va hakela mali muni?



Gwazi u xava 2 ya



U hakela

R



Manana Chauke u xava 5 ya



U hakela

R



Mavhengele ya Thembu

Va hakela

R



ya xava 20 ya

Njikela sweswi!

R50 ya

nkumba

wu 1



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

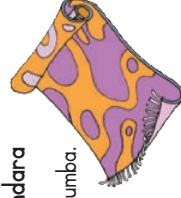


Xana swi ta teka nkarhi wo tanihi kwihl? Tirhisa khaldandara

Thlasi ya giredi ya 3 yj hlengeleta mali ku kota ku xava 4, yj mikumba.

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

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

Teacher: _____
Sign: _____
Date: _____

Swiphemu: Tihafu na tikotara

Avanjisa tibolo hi ku ringana exikarhi ka mabokisi.

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



Languta swifaniso kutani u hlamula swivutiso.

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

Sika:



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

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

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

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



Xiya switiripi swa swiphemu.



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

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

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

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



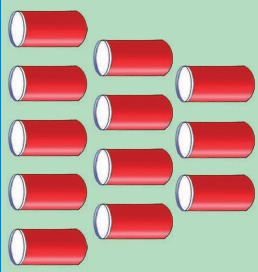
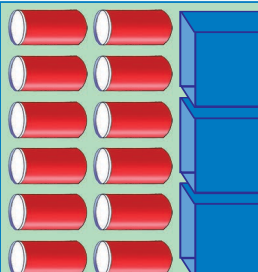
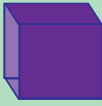
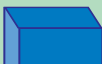
c. Hi xih xiphemu lexi nga lexikulu, $\frac{1}{2}$ kumbae $\frac{1}{4}$?



Teacher: _____
Sign: _____
Date: _____

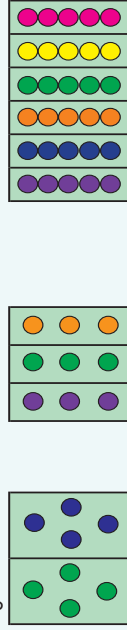
Swiphemu: Tihafu, xa-nharhu na xa-ntsevu

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

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



Languta swifaniso kutani u hlamula swivutiso.



Xana u hlajele swirhendzevutana swingani?

- | | |
|--|----------------------|
| Xana $\frac{1}{2}$ ya swirhendzevutana i yini? | <input type="text"/> |
| Xana $\frac{2}{6}$ ya swirhendzevutana i yini? | <input type="text"/> |
| Xana $\frac{3}{6}$ ya swirhendzevutana i yini? | <input type="text"/> |
| Xana $\frac{4}{6}$ ya swirhendzevutana i yini? | <input type="text"/> |
| Xana $\frac{5}{6}$ ya swirhendzevutana i yini? | <input type="text"/> |

Skw:



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



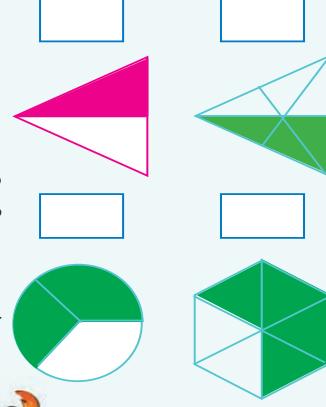
Languta swithiripi swa swiphemu. Hetisa swivulwa.

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

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



Tsala xiphemu xa xiyenge lexi dzwihatiweke.

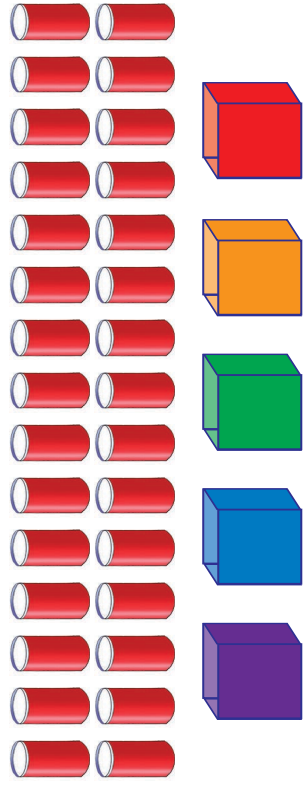


Bana xirhendzevutana eka xiphemu lexikulu.

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

Swiphemu: xa-ntlhanu

Avanjisa swithinana eka 5 wa mabokisi.



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

Languta swifaniso kutani u hlamula swivuztiso.



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



Khalara swithinana swa pima.

a.



Languta swithiripi swa swiphemu kutani u hlamula swivuztiso.

I xiheri	
$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{3}$	$\frac{1}{3}$
$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{5}$	$\frac{1}{5}$
$\frac{1}{6}$	$\frac{1}{6}$

Bana xihendzevutana eka lejikulu kumbe lejintsongo

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

Swilo swa 3-D

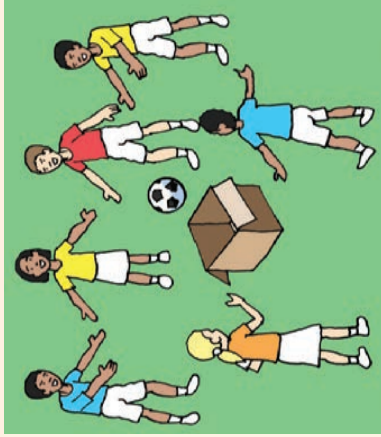
Hlayela mabokisi

(tiphirizimu).

Hlayela tibolo

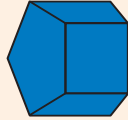
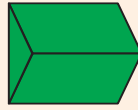
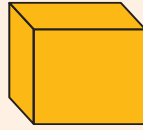
(swirhendzevutana)

Hlayela tislindara.



Lama i mabokisi hinkwawo.

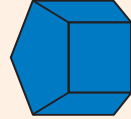
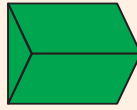
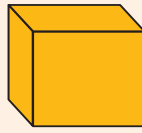
Tirhisa maphepha ya switsemiwa swa 3 na 4, ku swi endla.



Vuandlalo bya xiphepherhele bujin wana na bujin wana byi vitaniwa emahlweni.

Damarheta xikandza lexi n'wanyitelaka emahlweni ya mabokisi: Xana u

damarhetile swikandza swingani eka:

xikwere ☐phirizimu ☐heksagoni ☐Xana tingphohe ta phirizimu i to ringanela kumbe i ta njhikwa?

Sweswi endla silindara hi phepha ra xitsemiwa xa 4.

Xana tingphohe ta silindara i to ringanela kumbe i ta njhikwa? 

Tirhisa swilo swa wena ku vumba leswi landzelaka.

Hlamusela xiyimo xa silindara u tirhisa marito ya.

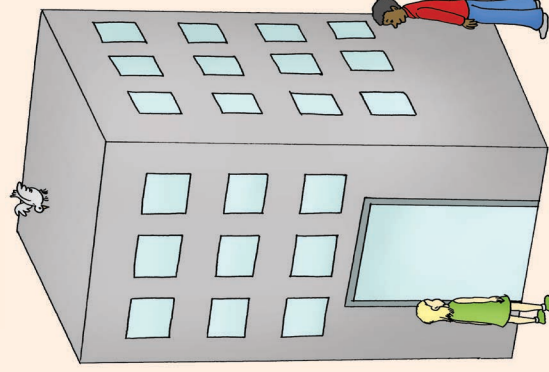
etlhelo

emahlweni

ehenhla



Tirhisa marito lama nga laha hansi ku hetisa swivulwa.



Nhwanyana u languta _____ ya mukoko.

Wanuna u languta _____ ra mukoko.

Xinyenyana xi languta _____ ka mukoko.

tlhelo

ehenhla

emahlweni



Teacher:

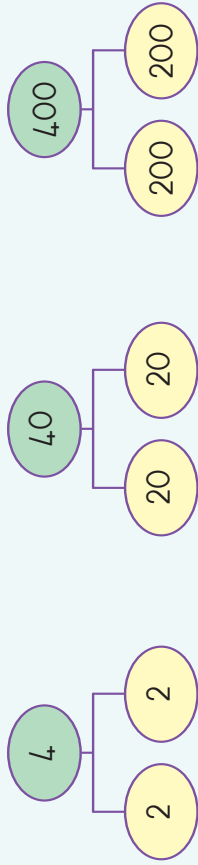
Sign:

Date:

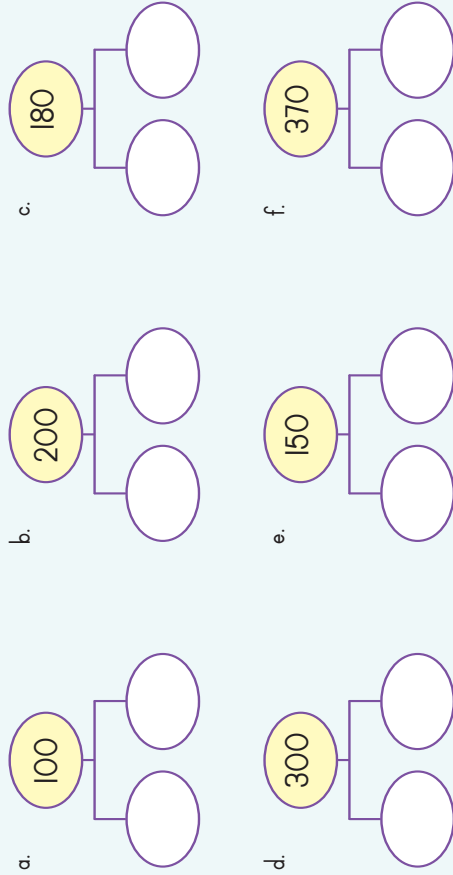
Ku andzisa kambirhi na hafu

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

Tsundzuka! Hl inga kombisa leswi hi xifaniso

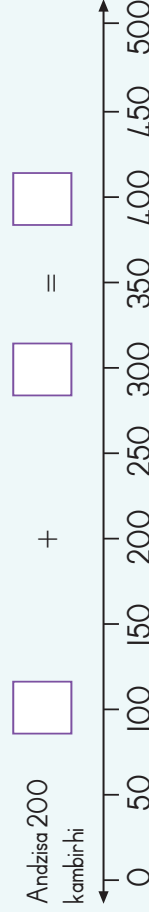
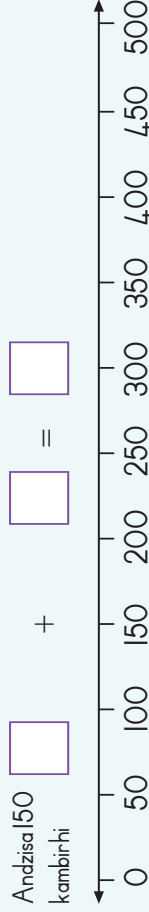
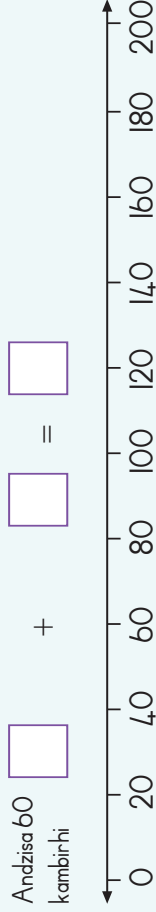
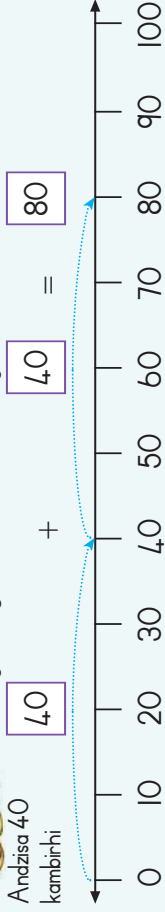


Ku kuma tihafu



Sika:

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



Hetisa leswi landzelaka

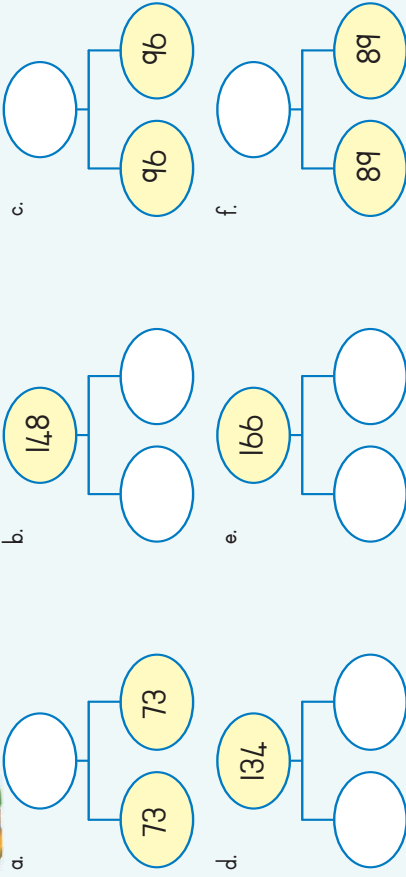
a. Andzisa 100 kambirhi	200
b. Andzisa 150 kambirhi	
c. Andzisa 120 kambirhi	
d. Andzisa 200 kambirhi	
e. Andzisa 170 kambirhi	

Hetisa leswi landzelaka

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

Ku andzisa kambirhi na ku hafu kun'wana

Ku kuma ku andzisa kambirhi kumbe tihafu



Ku hlajisela bayisikiri

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

Nhlamulo: wa mavhiki



Mbhukuto R450

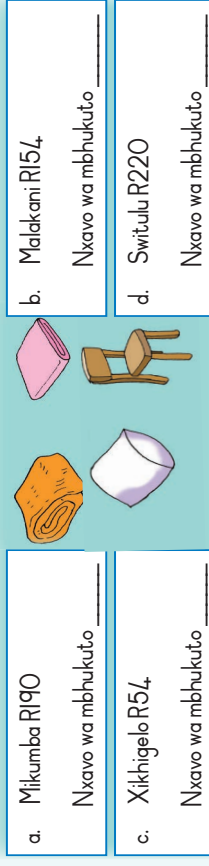
Nxavo wo hungutiwa hi hafu: A wu ri R900



Ku va eka mbhukuto

Swixaviswa hinkwaswo swi le ka mbhukuto wa hafu ya nxavo.

Tsala nxavo wa mbhukuto ethelo ka xixaviswa xin'wana na xin'wana.



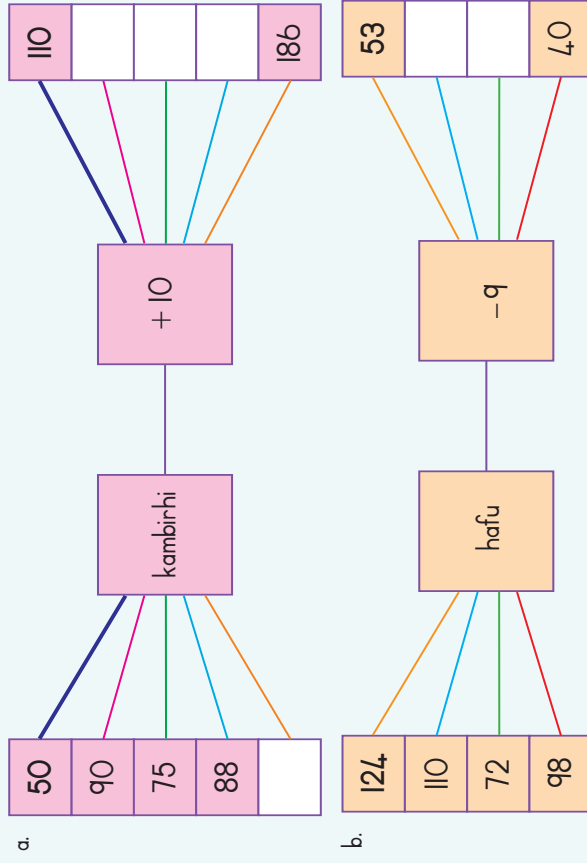
Xana i tirhandi tingani?

	R135	Musa u lava hembe. O va na hafu ya ntsengo ntsena.
	R78.50	Xana wa ha fanele ku lava mali muni? R _____
		Tintanghu ta Peter ti durha kambirhi ku ri na leti.
	R97	Xana tintanghu ta Peter ti durha mali muni? R _____
		Rhoko ya Phindi yi kambirhi eka nxavo wa leji.
		Xana rhoko ya Phindi yi durha mali muni? R _____



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

Landzelela xikombiso. Tata tinomboro leti sijijweke.

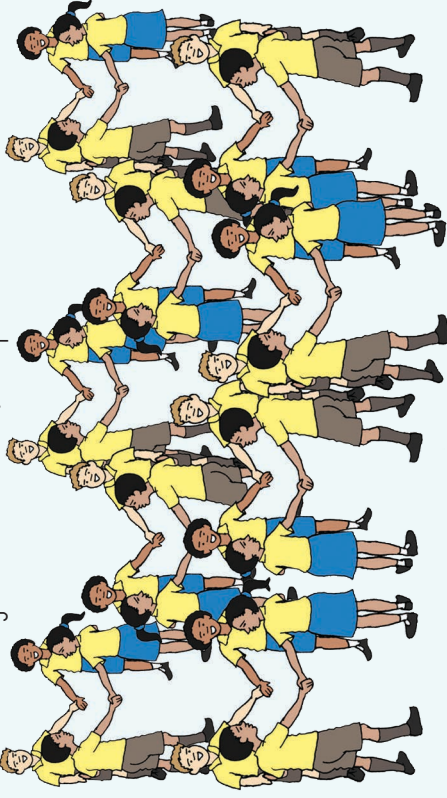


Endla mitlawa u tlhela u katsa



Ku vumba ntlawa wa vana

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

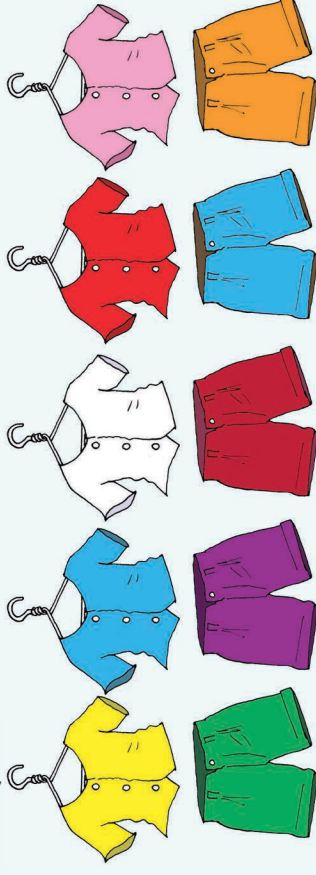


- Hlayela vana.
- Xana u endlile swipanu swingani?
- Kombisa tindlela leti in'wana hinkwato to endla mitlawa ya vana leji ringanaka.

Kambisa. Ringanisa.
Lulamisa.



Xana ku na swiambalo swingani?



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

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

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

Tsala le tere kumbe maletere manharhu yo sungula ya sungula ra muhlovo ra muhlovo wun'wana na wun'wana. Kombisa swiambalo hinkwaswo leswi in'wana leswi nga endlakaka.

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

Xana i swiambalo swingani leswi a nga swi endlaka?

Kambisa. Ringanisa.
Lulamisa.

Teacher: _____
Sign: _____
Date: _____

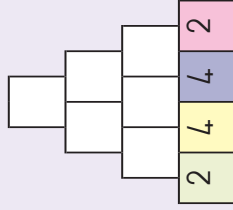
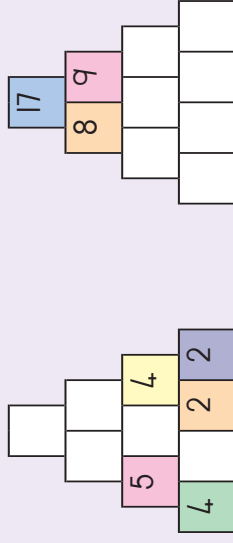
Ku tiphina hi metse



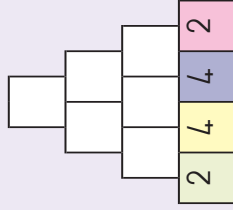
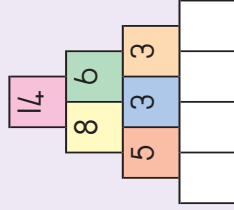
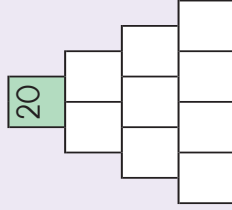
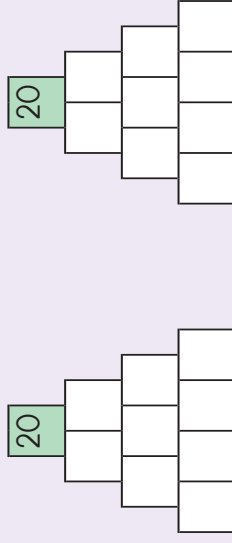
Lava nawu

Tirhisa nawu ku kuma tinomboro leti sijiyweke.

Sweswi endla leswi



Aka ku fika eka 20 hi 3 wa tindlela to hambana



Ntlhantlho

Ehleketal

Tirhisa tinomboro ta 1, 2, 3, 4, na 5.
3 wa tinomboro eka rixaxa rin'wana na rin'wana ri fanele ku hlenganana ri nyjika 10.

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



Ku kuma tinomboro



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

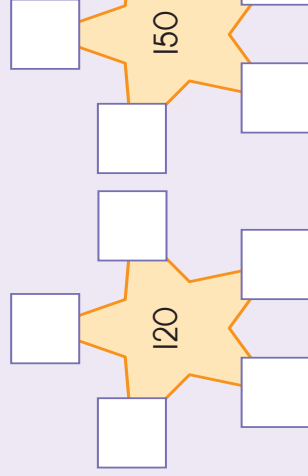
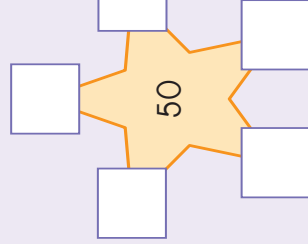
2	5	3	6
			2
		2	

b. Nawu: Ku na 3 wa tinomboro, to hingakanya na to ya ehansi. Hinkwato tinomboro ti fanele ku hlenganiswa kutani ti nyjika ntšengo lowu fanaka.

2	7	6
9		1
	3	8

23	28	21
12		26
	10	

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



1

1

0

1

0

0

2

2

0

2

0

0

3

3

0

3

0

0

4

4

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0

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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

