

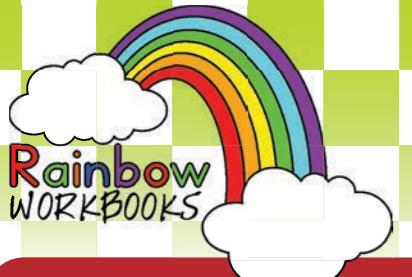


Vho Angie Motshekga
Minista wa Muhasho wa Pfunzo ya
Muteo



Vho Enver Surty
Muthusaminista wa Pfunzo ya
Muteo

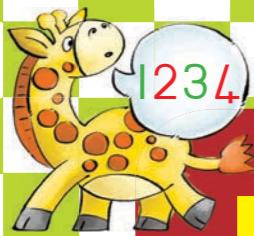
ISBN 978-1-4315-0145-8



MATHEMATICS IN TSHIVENDA GRADE 2 – BOOK 2 TERMS 3 & 4

ISBN 978-1-4315-0145-8

**THIS BOOK MAY
NOT BE SOLD.**



1 2 3 4

Published by the Department of Basic Education
222 Struben Street

Pretoria
South Africa

© Department of Basic Education
Sixth edition 2016

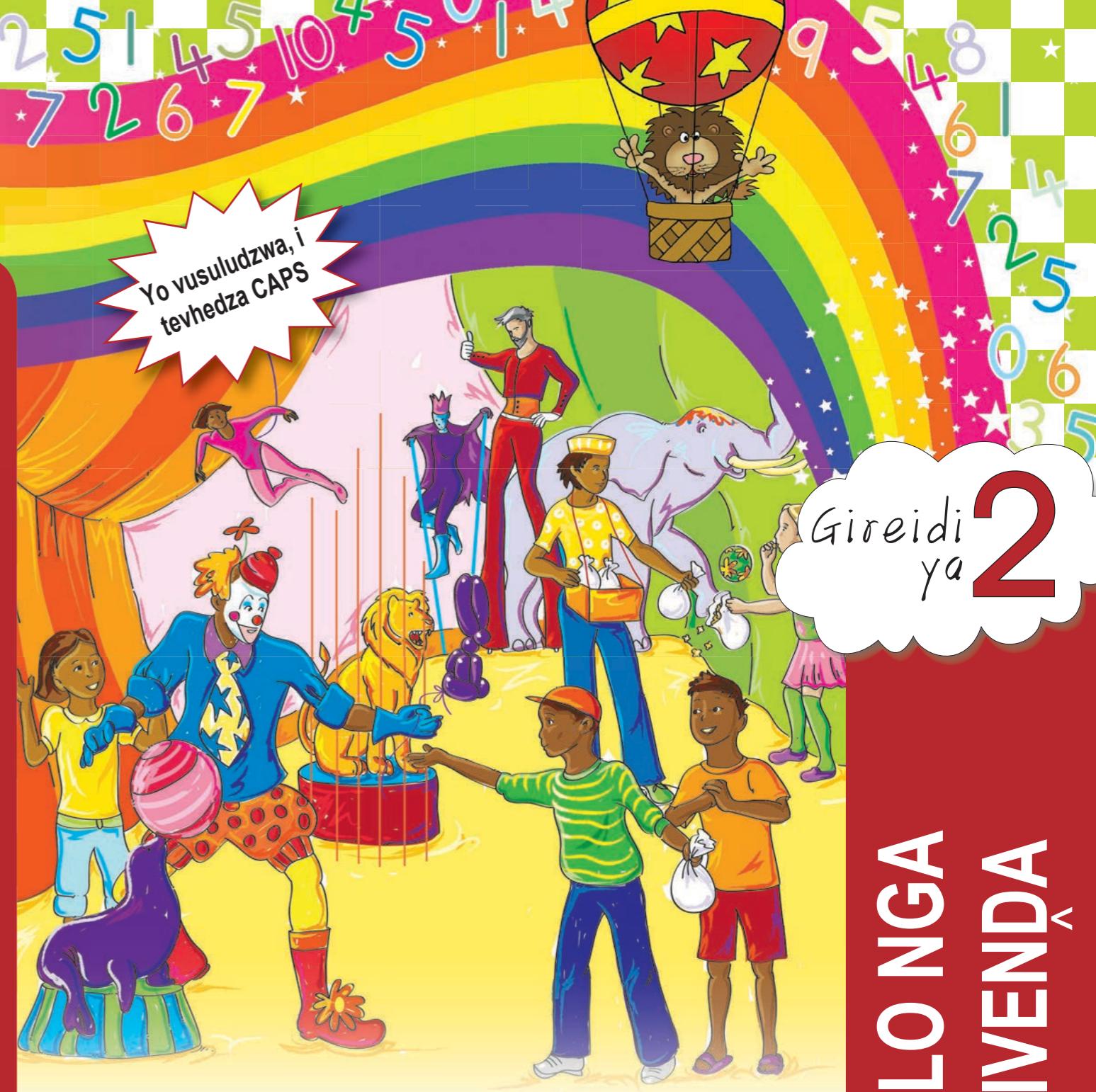
Author team: Blom, L., Aitchison, J.J.W.



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

MBALO NGA TSHIVENDA – Gireidi ya 2 Bugu ya 2

ISBN 978-1-4315-0145-8



Dzina:

Kilasi :



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA



**MBALO NGA
TSHIVENDA**
Bugu ya 2
Themo
3 & 4

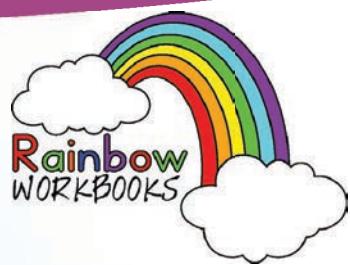
Zwi re ngomu

No	Thoho	Saitori
65	Nomboro 50 – 99	2
66	Nomboro 100 – 150	4
67	Dala, denga, a tshi na tshithu	6
68	Khaphasithi hafhu	8
69	Nomboro 150 – 170	10
70	Uvhala na u anganya (0 – 100)	12
71	Data iñwe hafhu	14
72	Mutanganyo 0 – 50	16
73	Mutanganyo 0 – 75	18
74	Mutanganyo na mutuso: 0 – 75	20
75	Bola, mabogisi na silinda	22
76	Swendani, kunguluwani ni fhaṭe nga zwithu zwa 3-D	24
77	Mutanganyo na mutuso hafhu 0 – 75	26
78	Tshelede hafhu	28
79	Tshelede ya dzinoutu hafhu	30
80	Phetheni dza zwifhinga	32
81a	Awara na miminete	34
81b	Miminete na awara	36
82	Mutanganyomudovhololwa (ndovhololo ya mutanganyo)	38
83	Andisan nga 5	40
84	Muandiso 2	42
85a	Kotara u bva kha	44
85b	Tshifhinga tshi a tshimbila	46
86	Uinga kavhili	48
87	Uinga kavhili ha u hafula	50
88	Muandiso muñwe hafhu	52
89	Phetheni dza nomboro	54
90	Furakhisheni (zwipida) – hafu	56
91	Furakhisheni – hafu dzinwe hafhu	58
92	Vhuimo na mbonalo	60
93	Data iñwe hafhuhafhu	62
94a	Furakhisheni – dzikota	64
94b	Furakhisheni – kota dzinwe hafhu	66
95	Nomborani phetheni nga zwivhumbeo	68
96	Uvhekanya data	70

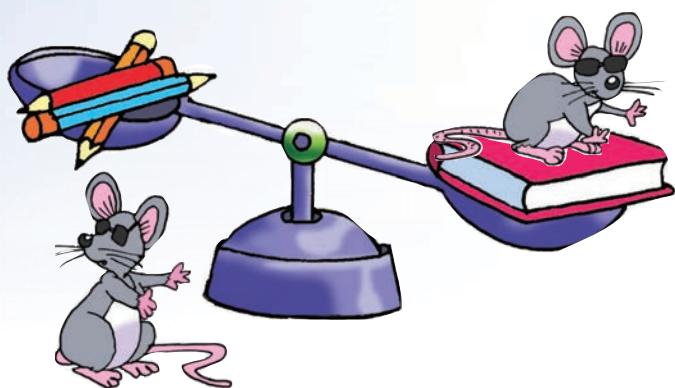
No	Thoho	Saitori
97	Nomboro 150 – 180	72
98	Nomboro 170 – 200	74
99	Zwivhumbeo zwa 2-D	76
100	Nomboro 0 – 200	78
101	Mutanganyo na Mutuso	80
102	Mutanganyo na mutuso hafhu	82
103	Zwiñwe hafhu nga phetheni dza nomboro na zwivhumbeo	84
104	Mutanganyo na Mutuso	86
105	Mutanganyo na mutuso hafhuhafhu	88
106	Zwithu zwa 3-D	90
107	Data hafhuhafhu	92
108	Urekanga tshelede	94
109	Tandululani mbalo dza tshelede	96
110	Uita zwigwada na u kovhana	98
111	Khaphasithi dzinwe hafhu	100
112	Phetheni dza nomboro	102
113	Muandiso wa 3	104
114	Muandiso wo vanganaho	106
115	Muandiso muñwe hafhu	108
116a	Maduvha a vhege	110
116b	Maduvha, vhege ya na miñwedzi	112
117	Zwiñwe hafhu nga phetheni dza nomboro	114
118	Ukovhekana nga u lingana zwi ri isa kha furakhisheni (zwipida)	116
119	Vhulapfu	118
120	Ulemelesa na u leluwesa	120
121	Ukovhekana nga u lingana zwi ri isa kha furakhisheni (zwipida) hafhu	122
122	Furakhisheni	124
123	Furakhisheni hafhu	126
124	Ndinganahuvili na zwivhumbeo	128
125	Mitevhe na furakhisheni	130
126	Furakhesheni ya tshikhuvhugu tsha zwithu	132
127	Ndinganahuvili kha phetheni	134
128	Ndinganahuvili hafhu	136

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

Gireidi ya **2**



Bugu iyi ndi ya:



TSHIVENDA

Bugu ya

2

65

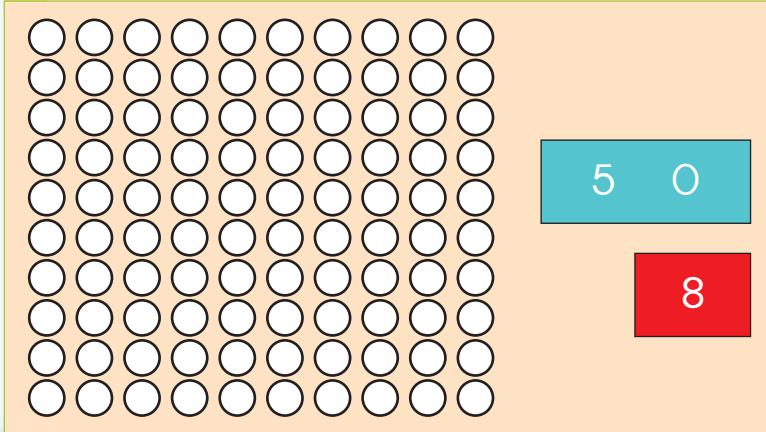


Nomboro 50 – qq

Deithi:

Themo ya 3

Khalarani zwitendeledzi zwa 58.



Nwalani nomboro. Tsumbo ya u thoma i do ni dededza.

$$60 + 8 = 68$$



6 0 8

=

8 0 6

=

5 0 3

7 0 1

=

9 0 5

=

6 0 q

=



Nwalani phindulo. Tsumbo ya u thoma i do ni dededza:

furarumalo

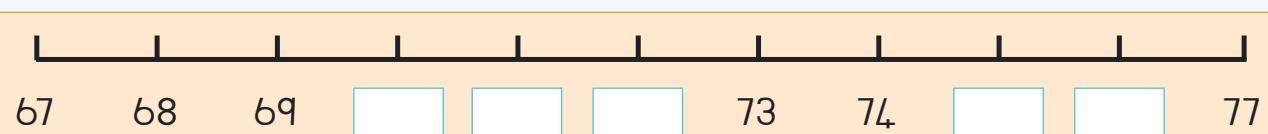
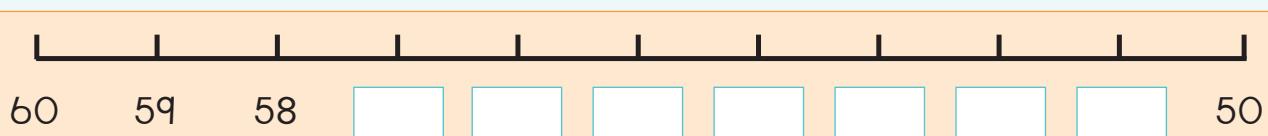
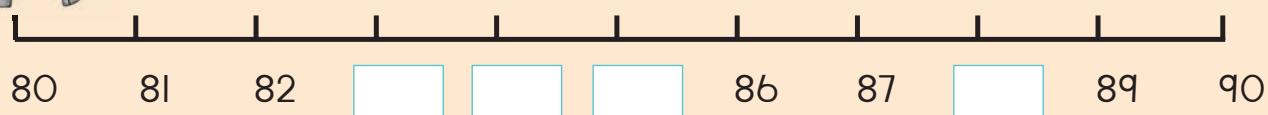


Nwalani phindulo dzanu dza zwi re afho nt̄ha nga maipfi:

Thukhu	Nomboro	Khulwane
	55	
	63	
	88	
	95	
	71	



Fhedzisani mitalombalo iyi.



Gerani nomboro tharu dzi re vhukati ha 50 na 99 kha magazini kana gurannda.
Ni dzi nambatedze hafha.



Teacher: _____
Sign: _____
Date: _____

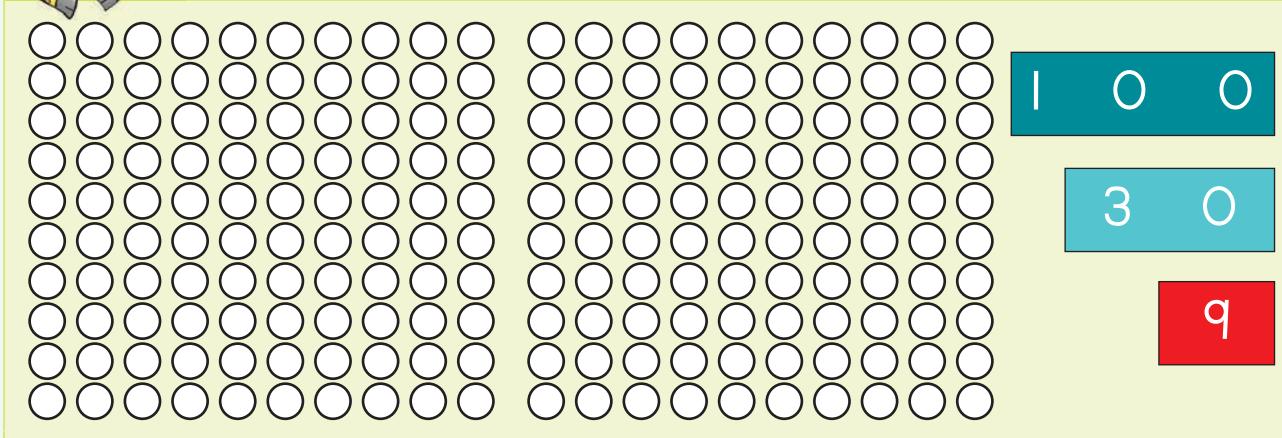
66



Nomboro 100 – 150

Khalaranzi zwitendeledzi zwa 139.

Themo ya 3



Nwalani nomboro ya:

1 0 0 2 0 8

$$100 + 20 + 8 = 128$$



1 0 0 4 0 q

=

1 0 0 4 0 2

=

1 0 0 5 0

=

1 0 0 2 0 7

=

1 0 0 3 0 5

=



Ndi nomboro ifhio i no da vhukati ha:

103 na 105?

139 na 141?

120 na 122?

150 na 148?

146 na 148?

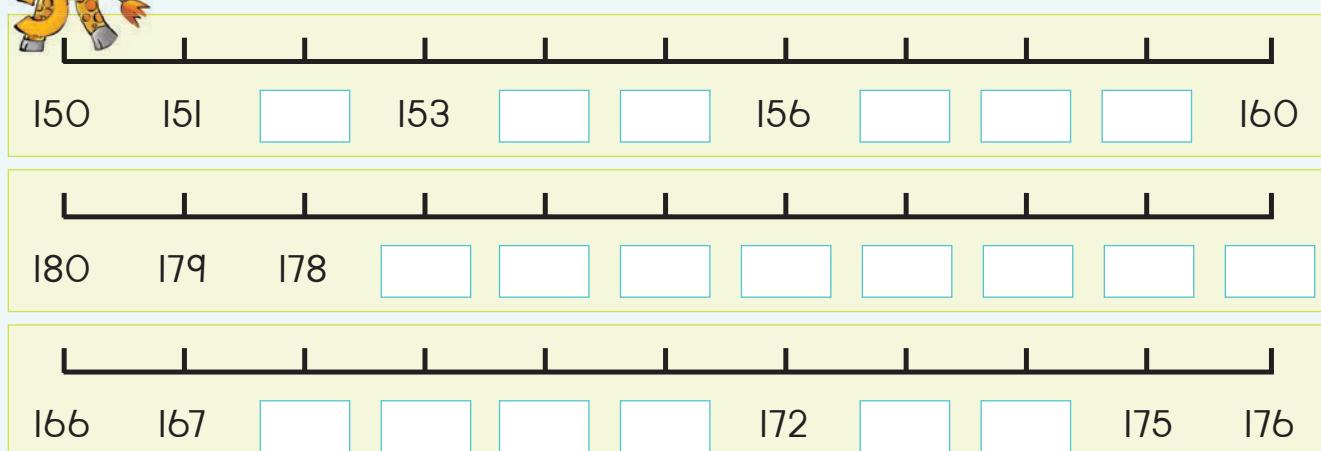


Nwalani nomboro mbili dzine dza vha
t̄hukhu na mbili dzine dza vha khulwane kha ye ya newa.

Thukhu	Nomboro	Khulwane
	123	
	145	
	108	
	141	
	134	



Fhedzisani mitalombalo iyi.



Gerani nomboro tharu dzi re vhukati ha 100 na 150 kha magazini kana gurannda.
Arali ni sa dzi wanani, gerani didzhititdzi no vhumba nomboro idzi tharu.
Dzi nambatedzeni haf'ha dzi tshi tevhekana u bva kha t̄hukhusa u ya kha khulwanesa.

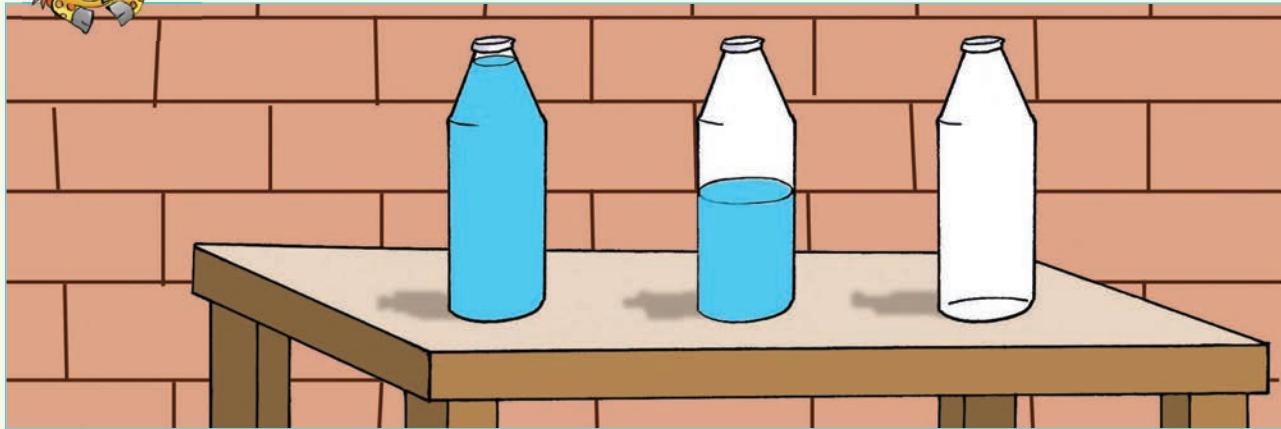


Teacher: _____
Sign: _____
Date: _____

Dala, denga, a tshi na tshithu



Ambani nga mabodelo a re nthā ha ṭafula ya mugudisi.



Bulani uri tshifaredzi tsho ḫala, tshi denga kana a tshi na tshithu.



Deithi:

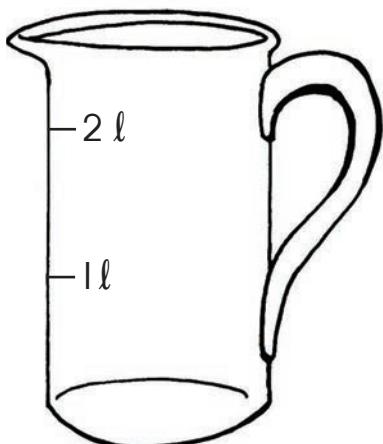




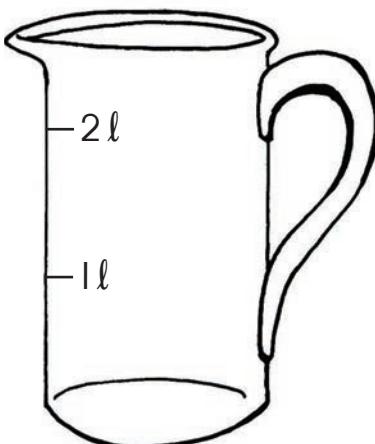
Khalarani ni tshi sumbedza
uri hu na zwiludi zwingafhani kha zwifaredzi (midzio).



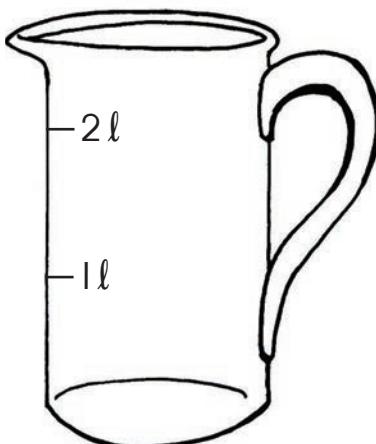
Tsho dala



Ndi denga



A tshi na tshithu



Olani zwifaredzi zwañu inwi muñe. Olani zwa 3 zwi no nga zwenezwi. Tshifaredzi tshiñwe na tshiñwe tsha fara litha dza 4. Zwi sumbedzeni.

Tsho dala

Ndi denga

A tshi na tshithu



Ndi tshifaredzi tshifhio
tshi no hwala zwinzhi.





Khaphasithi haf hu

Deithi:

Lavhelesani zwifanyiso. Vhana vha khou ita mini.



Lebula dici do dadza dzhege u swika ngafhi? Khalarani.





Ndi khaphu nngana dza madi dzine na do t̄oda uri ni dadze khaphu ya u ela.



Makhulu vha shumisa khaphu dza 2 dza mafhi kha u ita phudini.

Arali vha inga kavhili (davhula) risipi, vha do shumisa mafhi mangafhani?



Teacher: _____
Sign: _____
Date: _____

69

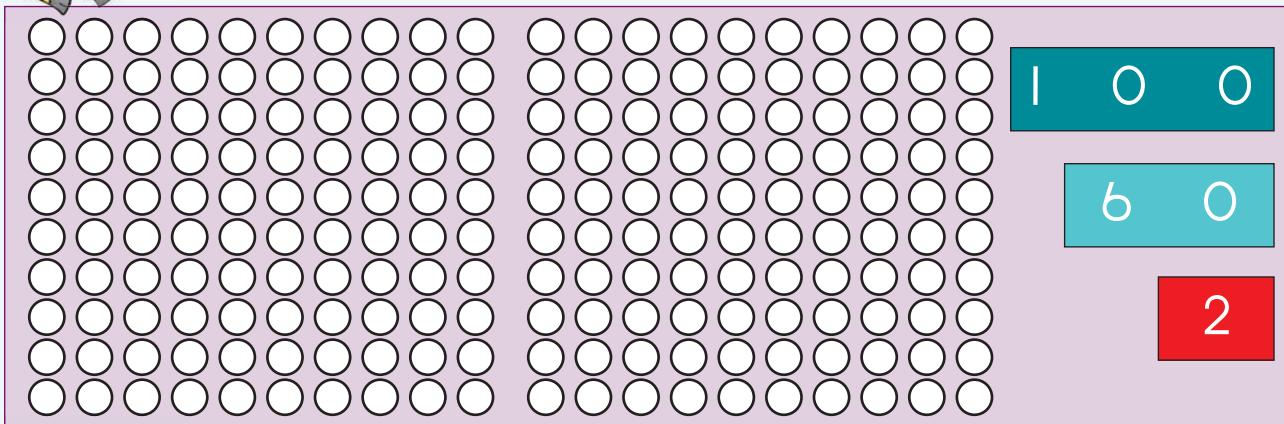


Deithi:

Nomboro 150 – 170

Khalaranzi zwitendeledzi zwa 162.

Themo ya 3



Nwalani nomboro:

1 0 0 **5 0** **2**

$$100 + 50 + 2 \\ = 152$$



1 0 0 **6 0** **7**

=

1 0 0 **7 0**

=

1 0 0 **6 0** **q**

=

1 0 0 **5 0** **4**

=

1 0 0 **6 0** **1**

=



Ndi nomboro ifhio i no da vhukati ha:

150 na 155 _____

158 na 162 _____

170 na 165 _____

163 na 167 _____

172 na 166 _____



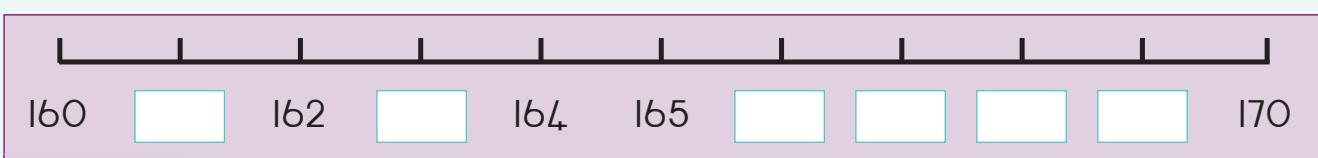
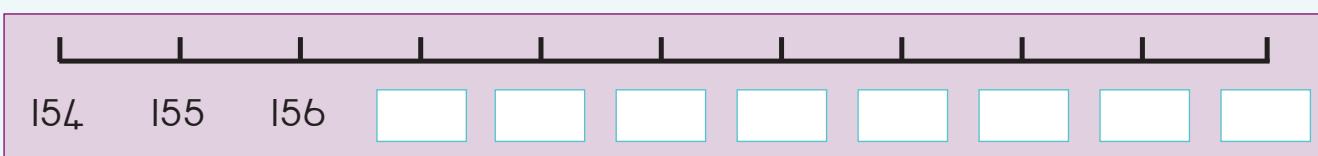
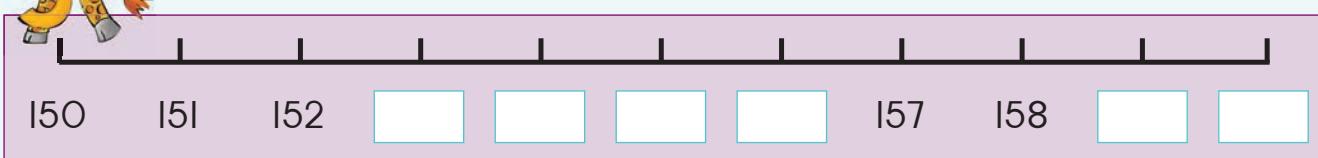
Nwalani nomboro mbili dzine

dza vha ṭhukhu na mbili dzine dza vha khulwane kha ye ya ḥewa.

Thukhu	Nomboro	Khulwane
	155	
	168	
	151	
	162	
	160	



Fhedzisani mitalombalo iyi.



Gerani nomboro tharu dzi re vhukati ha 150 na 170 kha magazini kana guranna.

Dzi nambatedzeni hafha dzi tshi tevhekana u bva kha ṭhukhusa u ya kha khulwanesa.



Teacher: _____
Sign: _____
Date: _____

70

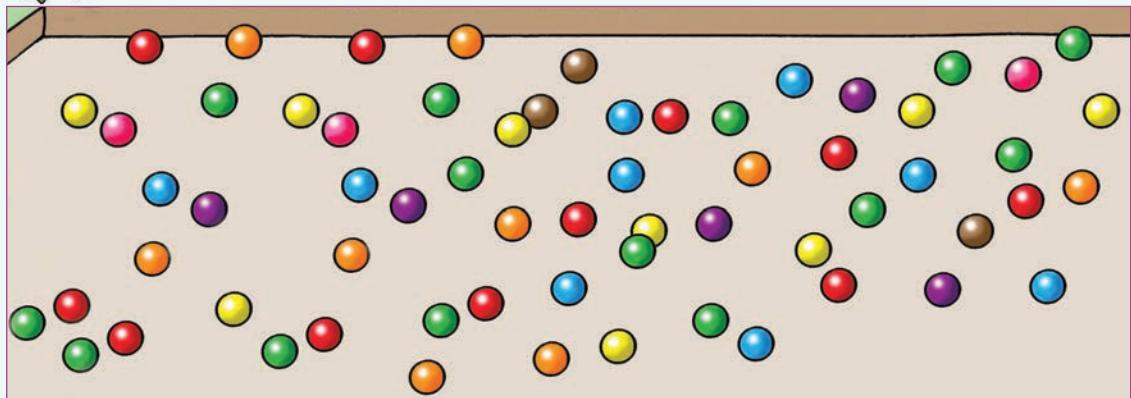


Uvhala na u anganya (0 – 100)

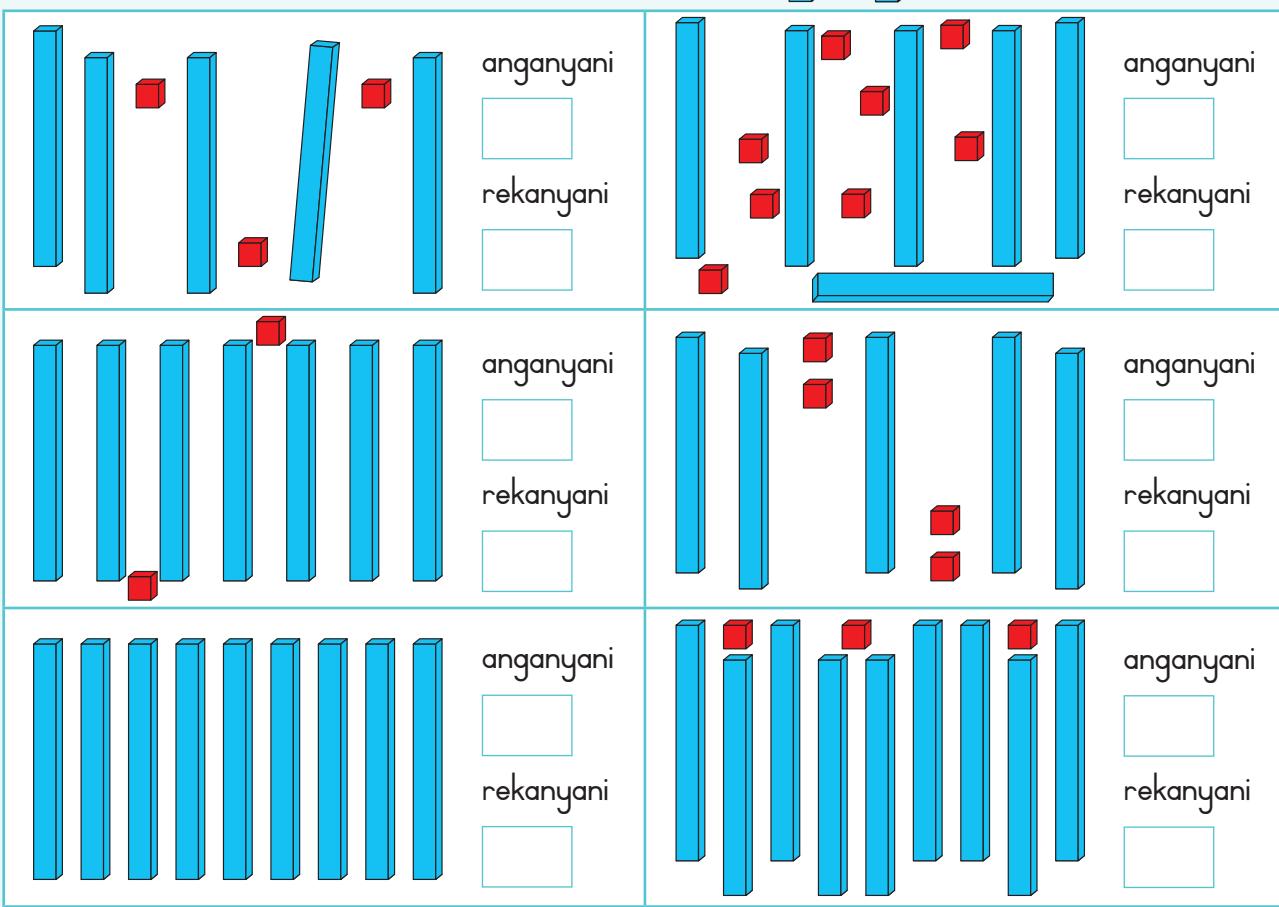
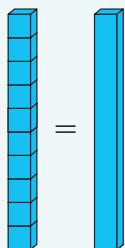
Deithi:

Themo ya 3

Anganyani ni vhale malungu.



Hu na zwibułoko zwa 10 kha tshifaredzi.
Anganyani ni kone u vhala.

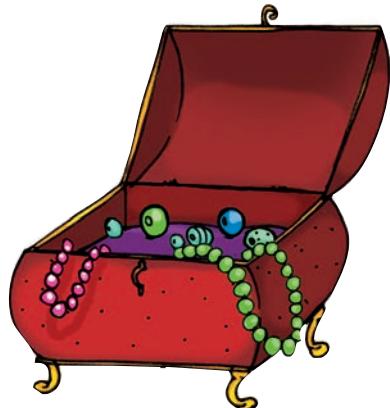




Hu na malegere a 42 bogisini. Ndi mangana a sa vhonali?



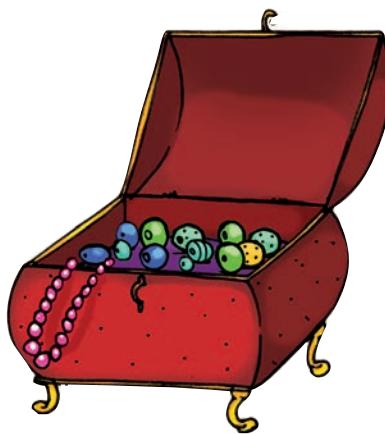
Hu na malungu a 50 bogisini. Ndi mangana a sa vhonali?



Hu na malegere a 78 bogisini. Ndi mangana a sa vhonali?

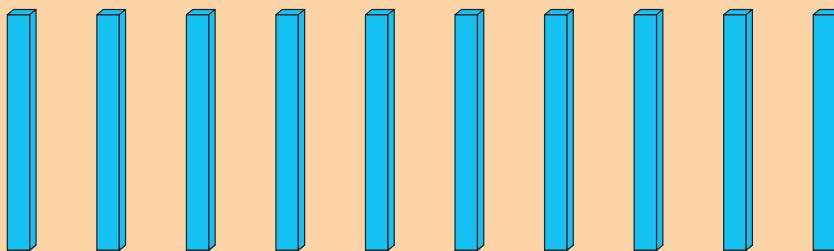


Hu na malungu a 100 bogisini. Ndi mangana a sa vhonali?



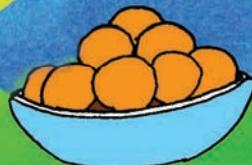
Ni nga zwi shuma nga luvhilo lungafhani?

Tshifaredzi tshiñwe na tshiñwe tshi na zwibuloko zwa 10. Hu na zwibuloko zwingana zwo fhelela?



Teacher:
Sign:
Date:

71



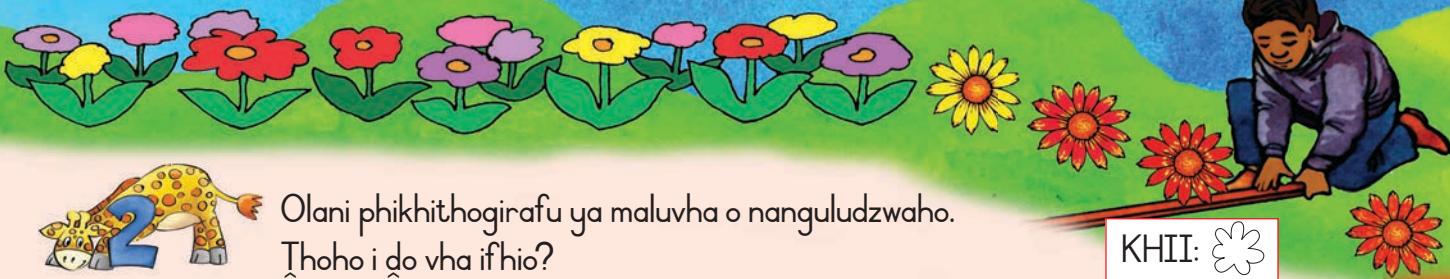
Data iñwe hafhu

Themo ya 3



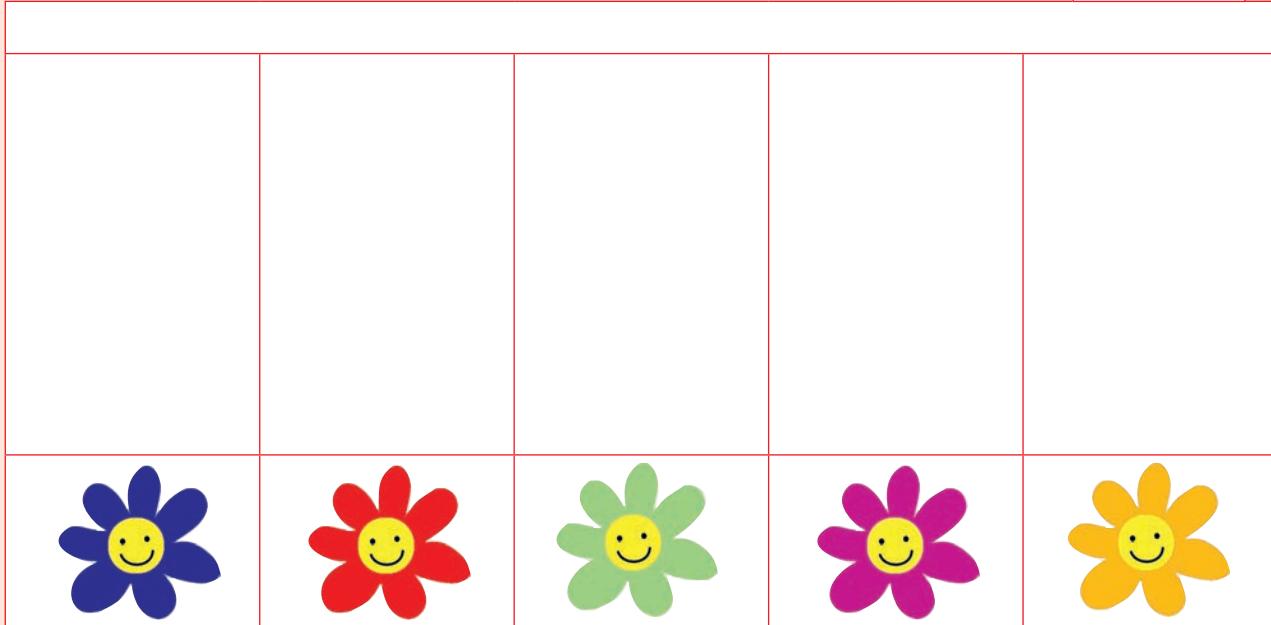
Nanguludzani maluvha. Olani nyolo yanu ya u zwi sumbedza. Nwalani ḥhanganyelo tshibogisini.

					
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
					
	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>



Olani phikhithogirafu ya maluvha o nanguludzwaho.
Thoho i do vha ifhio?

KHII: 



Fhindulani mbudziso dzi tevhelaho:

Hu na maluvha mangana a phephulu?

Hu na maluvha mangana matswuku?

Hu na maluvha mangana madala ?

Hu na maluvha mangana a pinki?

Hu na maluvha mangana a tada?

Ndi muvhala ufhio wa maluvha une u sa takaleleswe?

Ndi maluvha a muvhala ufhio une na u funesa?

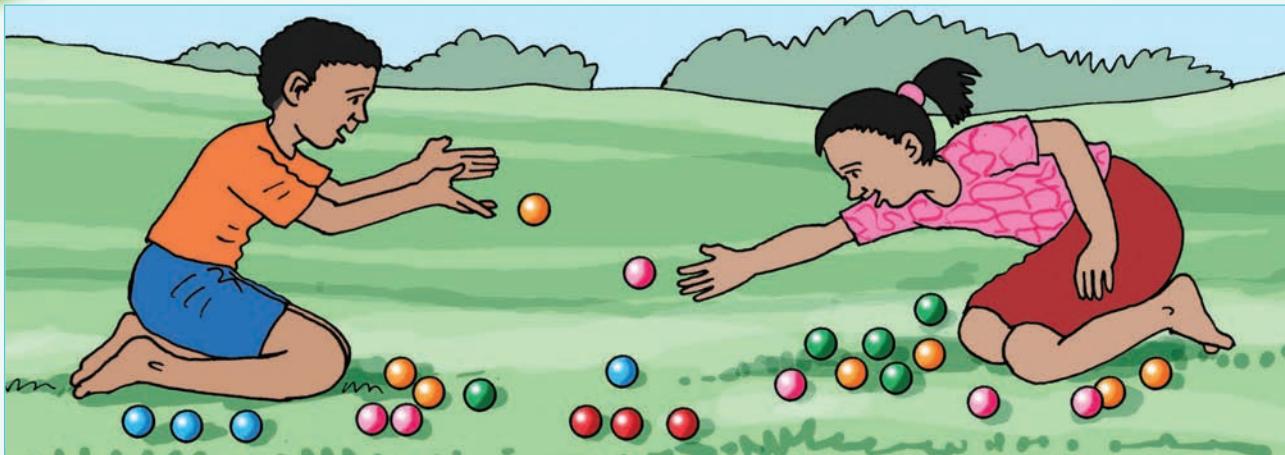




Mutanganyo 0 – 50

Deithi:

Themo ya 3



Lavhelesani tshifanyiso ni ḥanganye mavhuļu.

mitswuku

+ ya lutombo

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

midala

+ ya lutombo

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

ya pinki

+ ya lutombo

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

midala

+ ya tshitopana

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

mitswuku

+ midala

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



Livhanyani magaraṭa na ḥhanganyelo dzone. Talani mutalo u tshi bva kha mbalo u tshi ya kha magaraṭa one.

2

1 0

5

2 0

3

3 0

7

4 0

$$7 + 40 = 47$$

$$10 + 2 = 12$$

$$20 + 5 = 25$$

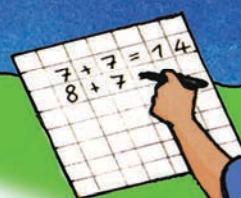
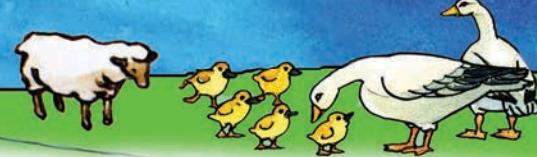
$$3 + 30 = 33$$



Tanganyani:



Tanganyani:



$1 \text{ } 0$	$+ \text{ } 3$	$=$	<input type="text"/>	$3 \text{ } 0$	$+ \text{ } 2$	$=$	<input type="text"/>
$2 \text{ } 0$	$+ \text{ } 5$	$=$	<input type="text"/>	$3 \text{ } 0$	$+ \text{ } 7$	$=$	<input type="text"/>
$4 \text{ } 0$	$+ \text{ } 1$	$=$	<input type="text"/>	$2 \text{ } 0$	$+ \text{ } 6$	$=$	<input type="text"/>
$1 \text{ } 0$	$+ \text{ } 4$	$=$	<input type="text"/>	$4 \text{ } 0$	$+ \text{ } 8$	$=$	<input type="text"/>
$3 \text{ } 0$	$+ \text{ } 9$	$=$	<input type="text"/>				

$16 + 13$

6	$\text{ } 3$	$=$	$\boxed{\text{q}}$
$1 \text{ } 0$	$+ \text{ } 1 \text{ } 0$	$=$	$\boxed{2 \text{ } 0}$

$$1 \text{ } 6 + 1 \text{ } 3 = 2 \text{ } 9$$

$24 + 12$

4	$\text{ } 2$	$=$	<input type="text"/>
$2 \text{ } 0$	$+ \text{ } 1 \text{ } 0$	$=$	<input type="text"/>

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

$37 + 11$

7	$\text{ } 1$	$=$	<input type="text"/>
$3 \text{ } 0$	$+ \text{ } 1 \text{ } 0$	$=$	<input type="text"/>

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

$25 + 23$

5	$\text{ } 3$	$=$	<input type="text"/>
$2 \text{ } 0$	$+ \text{ } 2 \text{ } 0$	$=$	<input type="text"/>

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

$36 + 12$

6	$\text{ } 2$	$=$	<input type="text"/>
$3 \text{ } 0$	$+ \text{ } 1 \text{ } 0$	$=$	<input type="text"/>

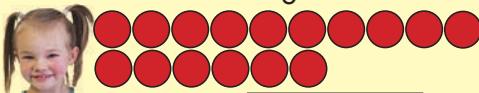
$$\boxed{} + \boxed{} = \boxed{}$$

$28 + 21$

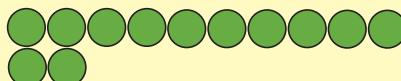
8	$\text{ } 1$	$=$	<input type="text"/>
$2 \text{ } 0$	$+ \text{ } 2 \text{ } 0$	$=$	<input type="text"/>

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

Ann u na zwivhaleli zwa 16 ngeno Aakar e na zwa 12 .

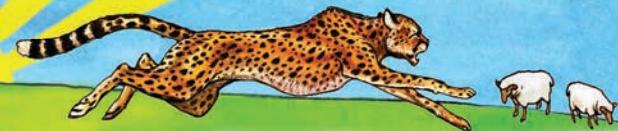


Thanganyelo ndi vhugai?



Teacher:
Sign:
Date:

Date:



Mutanganyo 0 – 75

Themo ya 3

Thanganyelo ya tshibuloko tshiñwe na tshiñwe ndi vhugai?

1 10
5 10

6 20
2 10

3 20
5 30

4 40
4 30



Tanganyani.

$12 + 11$

$$\begin{array}{c}
 \boxed{} \quad \boxed{} \quad + \quad \boxed{} \quad \boxed{} \\
 = \quad \boxed{} \quad + \quad \boxed{} \quad + \quad \boxed{} \quad + \quad \boxed{} \\
 = \quad \boxed{} \quad + \quad \boxed{} \\
 = \quad \boxed{}
 \end{array}$$

$23 + 41$

$$\begin{array}{c}
 \boxed{} \quad \boxed{} \quad + \quad \boxed{} \quad \boxed{} \\
 = \quad \boxed{} \quad + \quad \boxed{} \quad + \quad \boxed{} \quad + \quad \boxed{} \\
 = \quad \boxed{} \quad + \quad \boxed{} \\
 = \quad \boxed{}
 \end{array}$$



Fhedzisaní:

$$28 + 11 = 2\boxed{8} + 1\boxed{0} + 1 = 38 + 1 = 39$$

$$34 + 12 = 3\boxed{4} + 1\boxed{0} + 2 = \boxed{} + \boxed{} = \boxed{}$$

$$43 + 23 = 4\boxed{3} + 2\boxed{0} + 3 = \boxed{} + \boxed{} = \boxed{}$$

$$45 + 23 = 4\boxed{5} + 2\boxed{0} + 3 = \boxed{} + \boxed{} = \boxed{}$$

$$56 + 11 = 5\boxed{6} + 1\boxed{0} + 1 = \boxed{} + \boxed{} = \boxed{}$$



Tanganyani.



$21 + 10 = \boxed{\quad}$

$53 + 10 = \boxed{\quad}$

$46 + 10 = \boxed{\quad}$

$68 + 10 = \boxed{\quad}$

$37 + 10 = \boxed{\quad}$

$42 + 10 = \boxed{\quad}$

$74 + 10 = \boxed{\quad}$

$19 + 10 = \boxed{\quad}$

$55 + 10 = \boxed{\quad}$

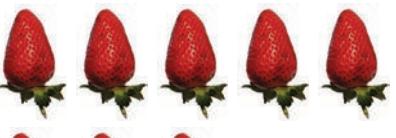
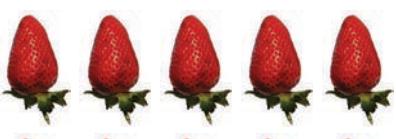
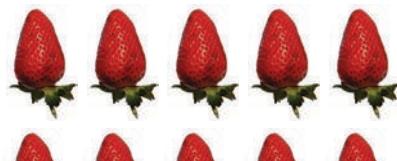
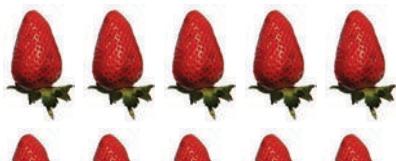


Thanganyelo ya 47 na 6 ndi?

Olani tshifanyiso ni tshi sumbedza phindulo yanu.



Itani mbalomaipfi ya inwi muñe ni tshi shumisa zwifanyiso.



Teacher: _____
 Sign: _____
 Date: _____

74



Mutanganyo na mutuso: 0 – 75

Themo ya 3



Livhanyani magarača. Talani mutalo u bva kha ḫhanganyelo u tshi ya kha garača lone.

q	
6	0

5	
5	0

4	
7	0

7	
4	0

$7 + 40 = 47$

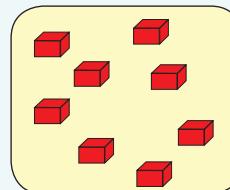
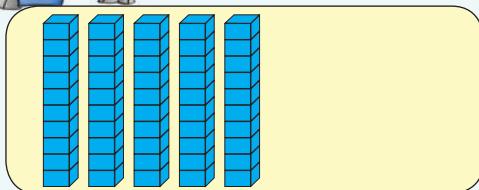
$60 + 9 = 69$

$50 + 5 = 55$

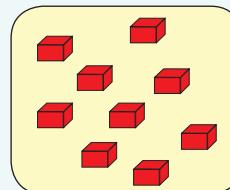
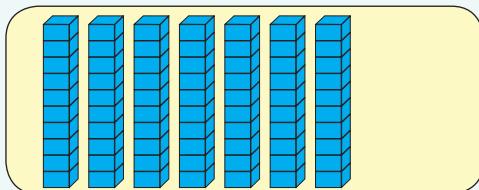
$4 + 70 = 74$



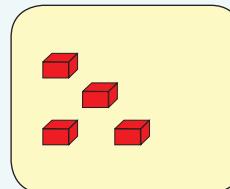
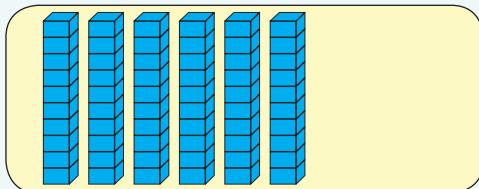
Nwalani mbalo ya zwi tevhelaho ni dzenise phindulo.



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



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



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



Tanganyani.

$60 + 4 = \boxed{}$

$30 + 2 = \boxed{}$

$40 + 9 = \boxed{}$

$50 + 4 = \boxed{}$

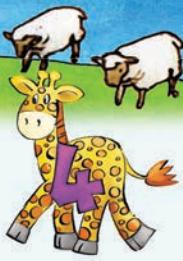
$20 + 8 = \boxed{}$

$10 + 7 = \boxed{}$

$70 + 5 = \boxed{}$

$70 + 8 = \boxed{}$

$50 + 6 = \boxed{}$



Tanganyani.



$56 + 15$



$56 + 15 = \boxed{71}$

$34 + 17$

$48 + 13$

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

$63 - 41$

$\boxed{} - \boxed{} = \boxed{}$

$75 - 51$

$\boxed{} - \boxed{} = \boxed{}$



Olani tshifanyiso ni tshi sumbedza uri Mbali u na zwibuloko zwa 52 ngeno Zander e na zwa 36.



Thanganyelo ndi vhugai? _____

Teacher:

Sign:

Date:





Bola, mabogisi na silinda

Deithi:



Maipfi aya a nga ni thusa:

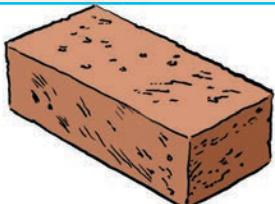
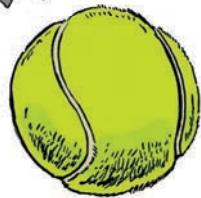
mabogisi

bola

silinda

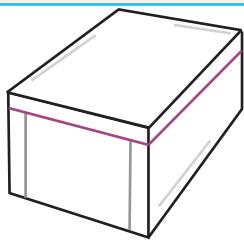
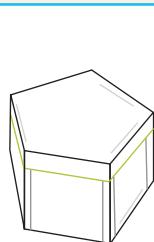


Topolani bola, mabogisi na silinda nge na nwala ipfi ilo nga fhasi ha tshiinwe na tshiinwe tshazwo.





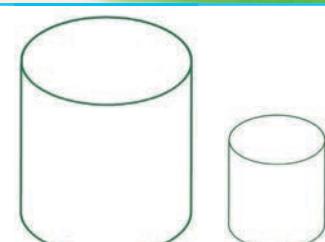
Khalaraní zwithu zwi re zwitukú ná muvhala mudala.



mabogisi



bola



silinda



Olaní tshithu tshi re tshihulwane.



Ni khou tama u dzhenisa mpho ya mme aṇu ya ḫuvha ḥa mabebo kha tshifaredzi. Ni tea u ṭalutshedza murengisi uri ni khou ṭoda tshithude. Ni nga tshi ṭalutshedza hani?





Swendani, kunguluwani ni fhaṭe nga zwithu zwa 3-D

Deithi:

Themo ya 3

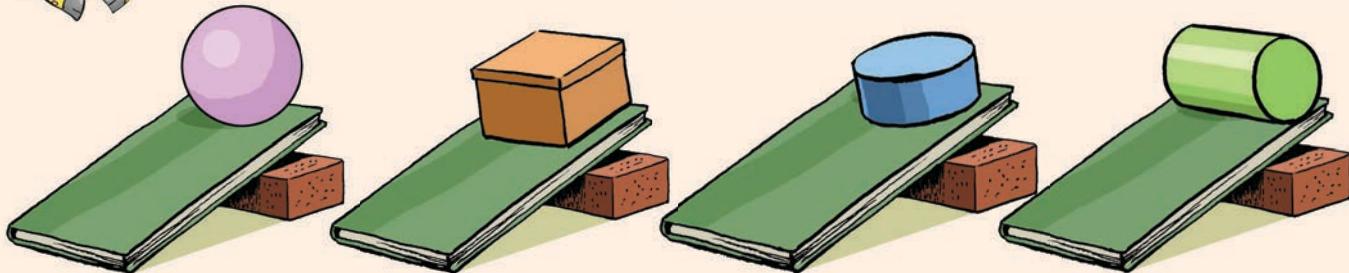


Mudededzi waṇu vha ḋo ita nyito iyi na inwi i ya phuratikhala u itela u vhona uri zwi tevhelaho zwi nga dzula (balantsa) naa:

- Bogisi nṭha ha bogisi.
- Bola nṭha ha bogisi.
- Bola nṭha ha bola.
- Mabogisi mavhili o ṭhophana.



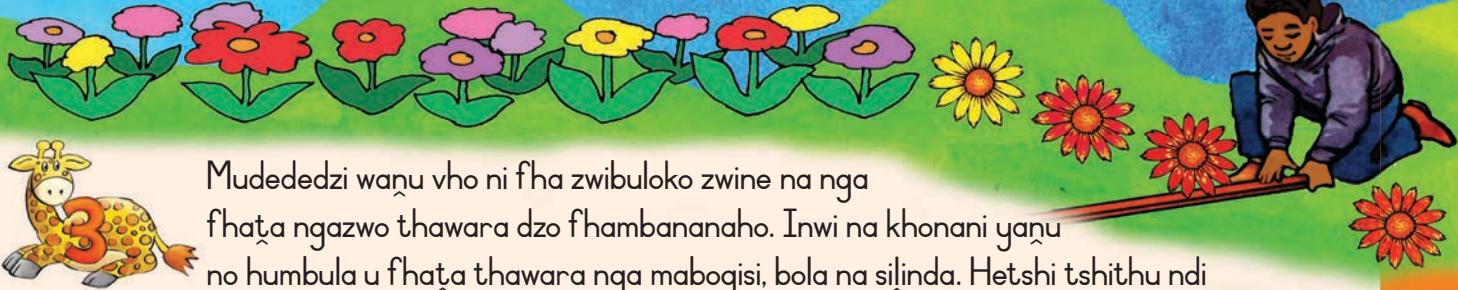
Mabogisi, bola na silinda zwi nga kunguluwa kana zwa swenda. Mudededzi waṇu vha ḋo ni nea zwithu zwi tevhelaho uri ni vhone arali zwi tshi kunguluwa kana u swenda. Nga murahu ha u ita nyito iyi lwa phurathikhala, ambanuri izwi zwithu zwi ḋo kunguluwa kana u swenda naa.



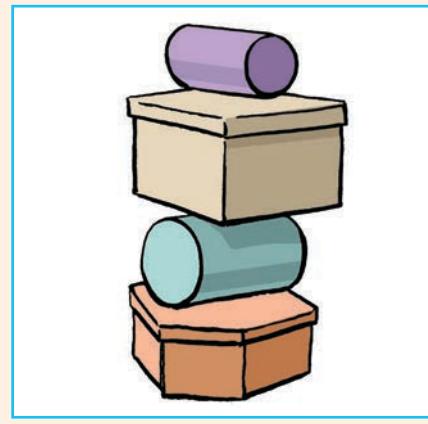
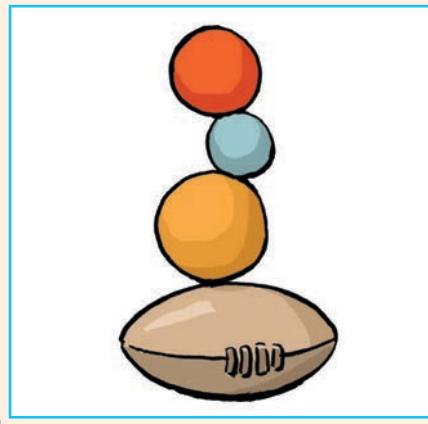
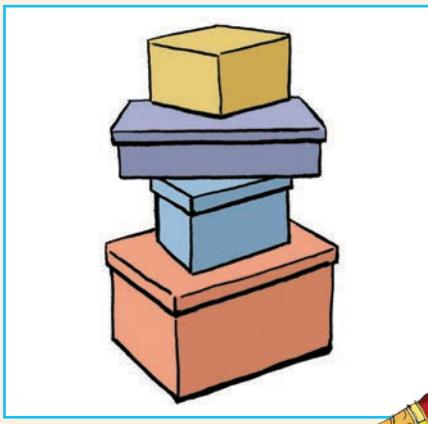
Wanani zwifanyiso zwa zwithu zwine zwa nga kunguluwa kana zwa swenda kha magazini ni zwi nambatedze haf'ha.

kunguluwa

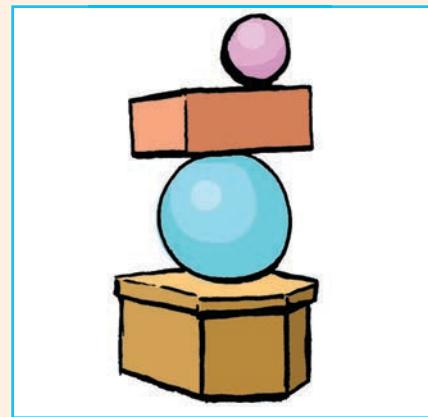
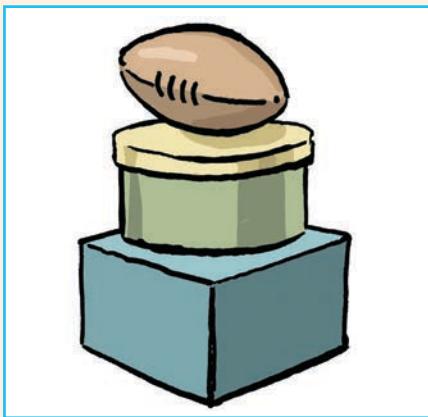
swenda



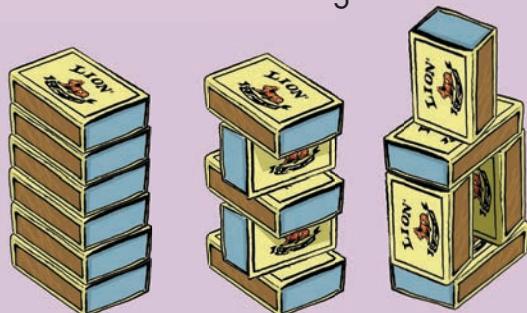
Mudededzi wañu vho ni fha zwibuloko zwine na nga fhañta ngazwo thawara dzo fhambananaho. Inwi na khonani yañu no humbula u fhañta thawara nga mabogisi, bola na silinda. Hetshi tshithu ndi tshone tshe na fhañta kana na edzisa u fhañta. Ambani uri zwe konadzea naa kana hai.



Hezwi zwi ño konadzea



Dziñwe dza thawara dza zwibogisi zwa metshisi khedzi.



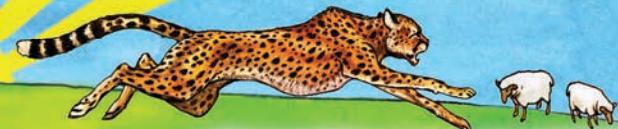
Ni tea u vha na:

Zwibogisi zwa metshisi

Zwine na tea u ita:

Zwino lingedzani u fhañta thawara ya zwibogisi zwa metshisi i ye nñha nga hune na nga kona ni sa shumisi guñuu.





Mutanganyo na mutuso hafhu 0 – 75

Themo ya 3

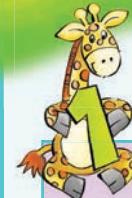
Tanganyani nomboro dzi re tshibulokoni tshiinwe na tshiinwe ni nwale phindulo.

	5	0
2	2	0
3		

	5	0
7	1	0
2		

	4	0
4	1	0
3		

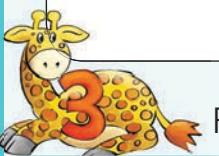
	3	0
8	2	0
1		



Tanganyani.

$52 + 21$

$43 + 28$



Fhedzisani.

$28 + 31 = 2\boxed{8} + \boxed{3}0 + \boxed{1} = 58 + \boxed{1} = 59$

$45 + 32 = 4\boxed{5} + \boxed{3}0 + \boxed{2} = \boxed{} + \boxed{} = \boxed{}$

$52 + 14 + 5\boxed{2} + \boxed{1}0 + \boxed{4} = \boxed{} + \boxed{} = \boxed{}$



Tanganyisani.

$41 + 10 = \boxed{}$

$44 + 10 = \boxed{}$

$71 + 10 = \boxed{}$



Thanganyelo ya 36 na 24 ndi _____.

Olani tshifanyiso ni tshi sumbedza phindulo yanu.

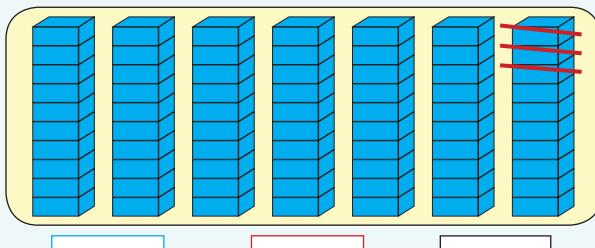
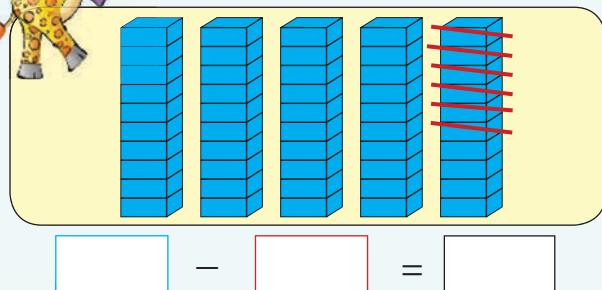


Tusani nomboro dzi re kha tshibogisi tsha fhasifhasi (tshirahoni) kha nomboro dzi re kha tshibogisi tshi re nt̄hanthā (thodzini).

5	7 0	2	6 0	7	5 0	q	3 0
3	4 0	1	2 0	6	1 0	5	1 0



Nwalani mbalo ya zwi tevhelaho.



$$\boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$



Tusani:

$$65 - 23$$

$$72 - 29$$



Bvisani

$$61 - 10 = \boxed{}$$

$$42 - 10 = \boxed{}$$

$$37 - 10 = \boxed{}$$



Olanı tshifanyiso tshi no sumbedza uri Palesa o vha e na mimavhulu ya 62 a xedza ya 21.



Ho sala mimavhulu mingana? _____



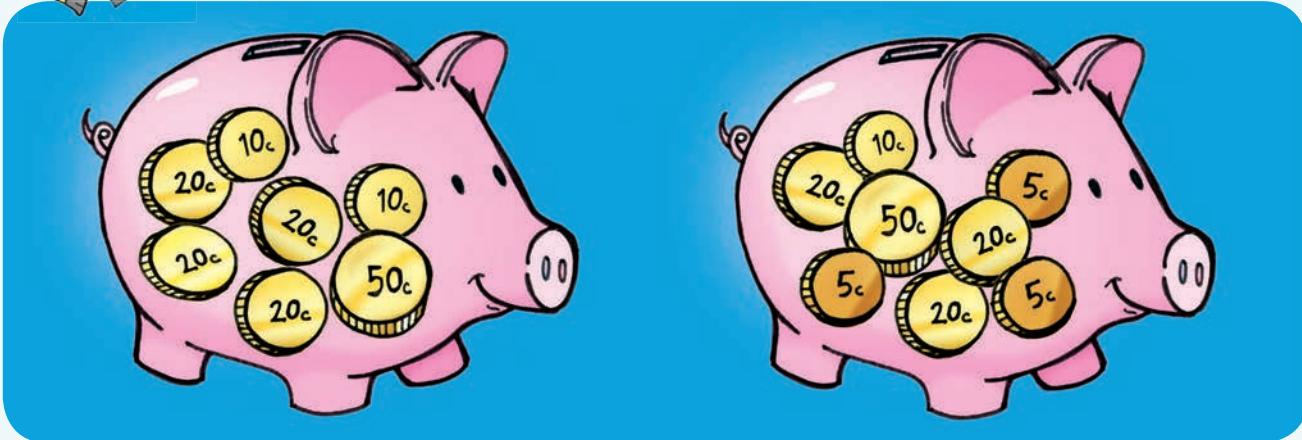
Teacher: _____
Sign: _____
Date: _____



Ndo vhulunga vhugai?



Tshelede hafhu

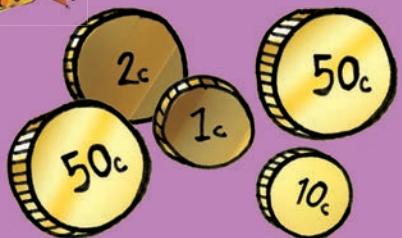


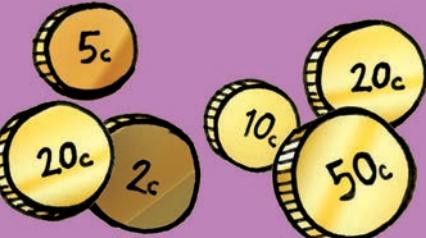
Shumisani khoini dici no bva kha Tshigeriwa 3 ni nambatedze mitengo yone hafha.

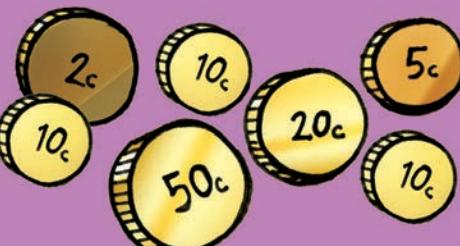




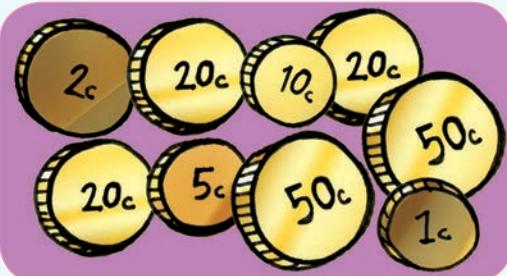
Ndi masenthe mangana?

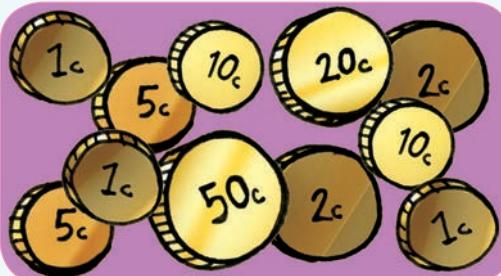


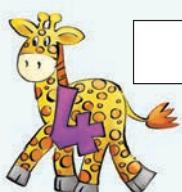












Mbalo dza maipfi:

Suzy u na 100c. Khotsi anga vha mu engedza nga 50c. U na vhugai yo tangana yothe? Olani tshifanyiso tshi no sumbedza phindulo yanu.

Ndi na 170c. Ndo renga legere la 100c. Ndo salelwa nga vhugai? Olani tshifanyiso tshi no sumbedza phindulo yanu.



Teacher: _____
Sign: _____
Date: _____

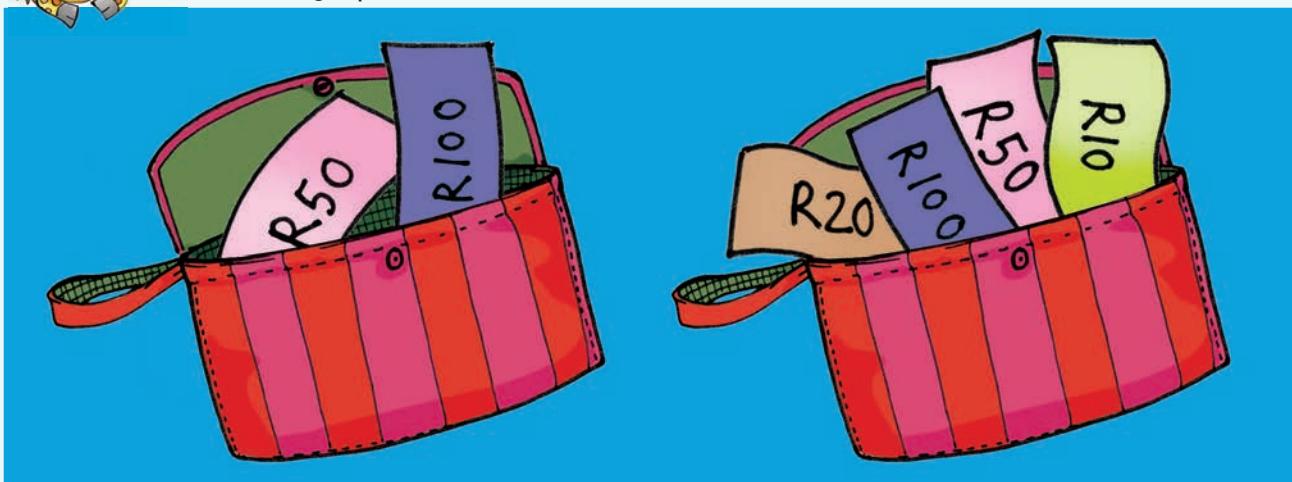
79



Deithi:

Tshelede ya dzinoutu haf hu

Ndi na vhugai phesen?



Shumisani dzinoutu dici no bva kha Tshigeriwa 3 ni nambatedze mitengo yone haf ha.



Themo ya 3



Ndi Rannda nngana?

R100 R50

R100 R20
R20

R10 R10
R100 R10

R20 R10
R100

R20 R10
R100 R50

R100 R20
R20 R20 R50 R10



Mbalo dza maipfi:

Mukomana wanga u na R100. Ndi na R50 nahone kukaladzi kwanga ku na R20. Ri na vhugai yo tangana yo^{the}? _____

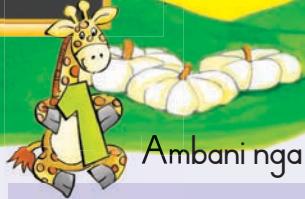
Ndi na R160. Nda renga hemmbe ya R50. Ndo salelwa nga vhugai?



Teacher:

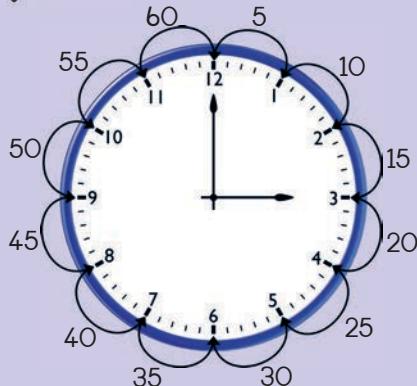
Sign:

Date:



Phetheni dza zwifhinga

Ambani nga watshi.



Watshi i na mananga mavhili.

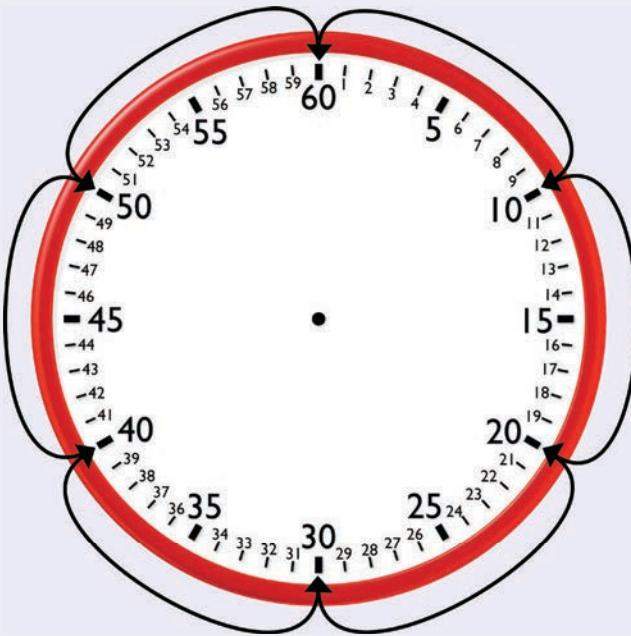
Luñanga lupfufhi lu ri sumbedza awara.

Luñanga lulapfu lu ri sumbedza miminete.

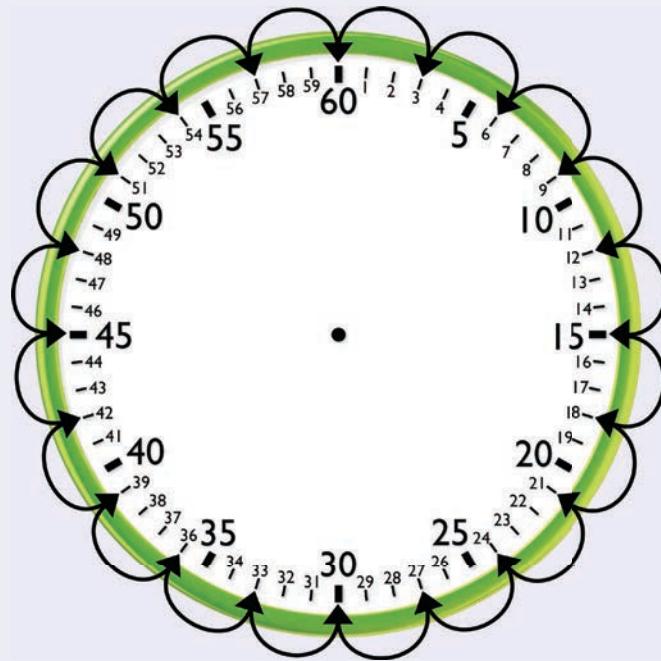
Afha ri ri ndi awara ya 3 (ya vhuraru)



Phetheni ndi ifhio? Lavhelesani misevhe tshifhinga tshothe ni nwale phetheni ya hone.



10 —, —, —, —, —,

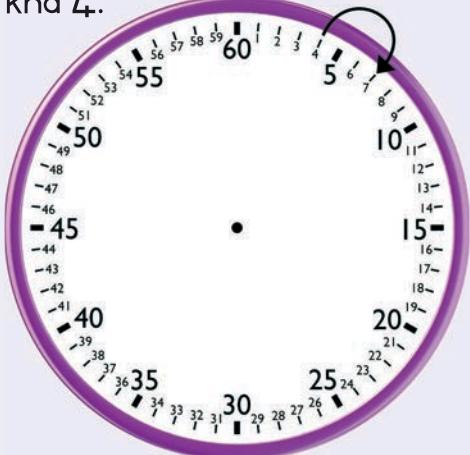


3, —, —, —, —, —, —,
—, —, —, —, —, —, —,
—, —, —, —,

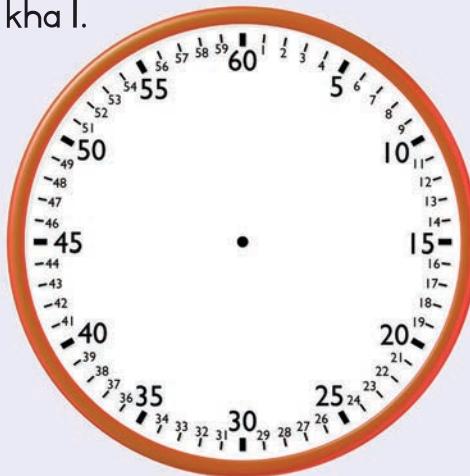


Sumbedzani phetheni ni tshi shumisa misevhe.

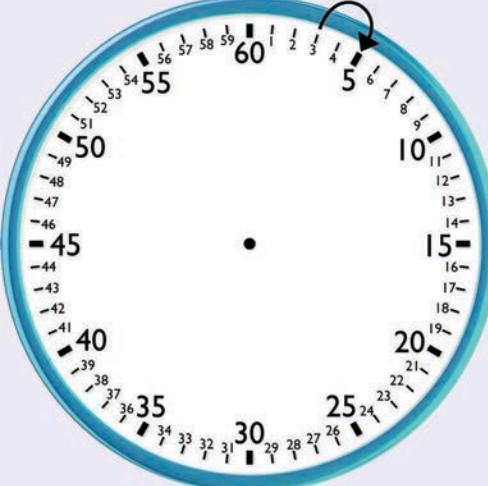
Vhalani nga tharutharu ni tshi thoma kha 4.



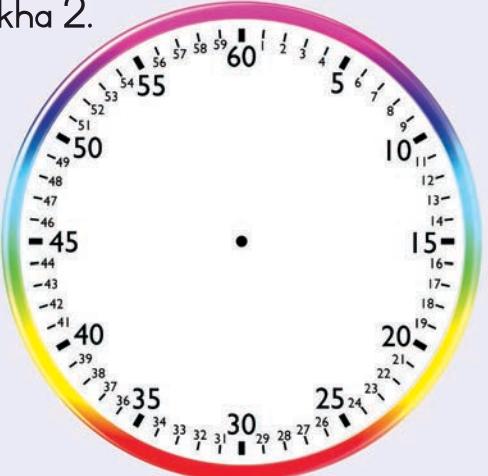
Vhalani nga mahumi ni tshi thoma kha 1.



Vhalani nga mbilimbili ni tshi thoma kha 3.



Vhalani nga t̄hanut̄hanu ni tshi thoma kha 2.



Ni ya tshikoloni nga tshifhingade?



Ni ya hayani nga tshifhingade?



Ni la tshilalelo nga tshifhingade?



Teacher:
Sign:
Date:

Awara na miminete

Deithi:



Ambani nga watshi.



Luñanga lupfufhi lu ri sumbedza uri yo tou fhira nyana awara ya 3.

Luñanga lulapfu lu ri sumbedza uri ho fhela miminete ya 15.

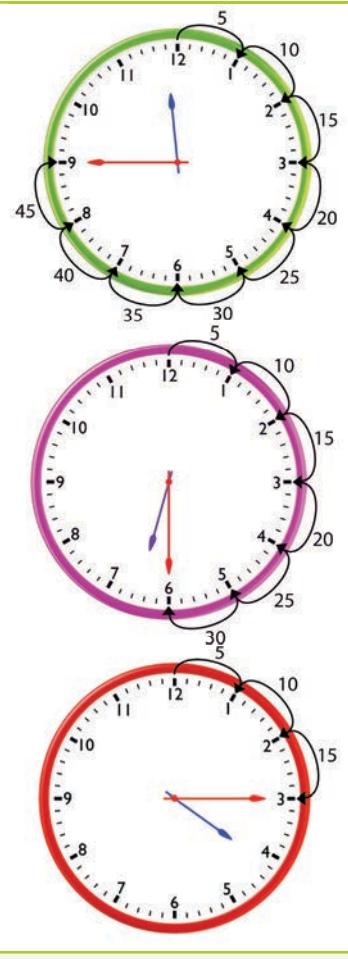
Ri ri ndi kotara u bva kha awara ya vhuraru.

Ri amba uri ndi minete ya fumiñhanu u bva kha awara ya 3.

Minete ya fumiñhanu ndi kota ya minete ya furathi (awara).



Ndi tshifhingade?



Luñanga lupfufhi lu ri sumbedza _____.

Luñanga lulapfu lu ri sumbedza uri ndi _____.

Ri ri ndi _____.

Luñanga lupfufhi lu ri sumbedza _____.

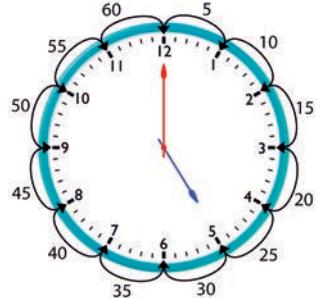
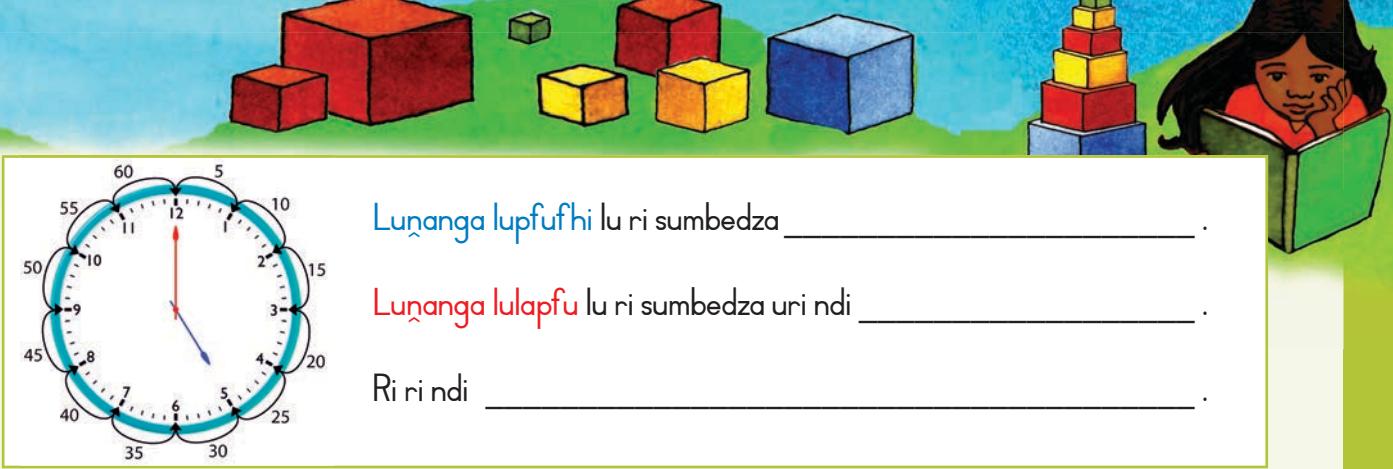
Luñanga lulapfu lu ri sumbedza uri ndi _____.

Ri ri ndi _____.

Luñanga lupfufhi lu ri sumbedza _____.

Luñanga lulapfu lu ri sumbedza uri ndi _____.

Ri ri ndi _____.



Lunanga lupfufhi lu ri sumbedza _____.

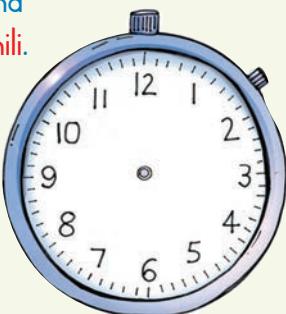
Lunanga lulapfu lu ri sumbedza uri ndi _____.

Ri ri ndi _____.

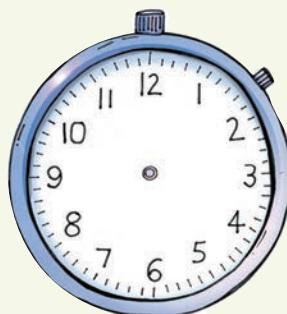


Olani lunanga lulapfu na lunanga lupfufhi.

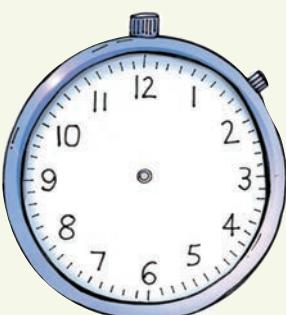
Kotara u bva kha
awara ya vhuvhili.



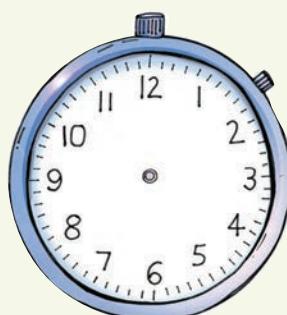
Hafu u bva kha
awara ya vhutahé.



Awara ya
vhufumi.



Kotara u ya kha
awara ya vhurathi.



Ni ita mini nga itsi tshifhinga vhukati ha vhege? Olani tshifanyiso.

Kotara u bva kha awara ya vhumalo nga
matsheloni.

Kotara u bva kha awara ya vhumalo nga
madekwana.



Teacher:
Sign:
Date:

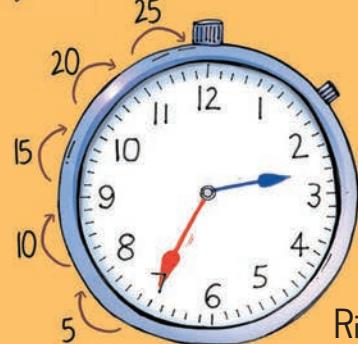
8lb



Themo ya 3



Ambani nga watshi.



Lunanga lupfufhi lu tsini na 3.

Lunanga lulapfu lwo ima kha **miminete ya 35**.

Ndi miminete ya 25 u rangela lunanga lulapfu lu tshi swika kha 12.

Ri ri ndi **minete ya fumbilitanu u ya kha awara ya vhuraru**.

Ri khou amba uri ndi miminete ya 25 u rangela awara ya vhuraru.



Ndi tshifhingade?

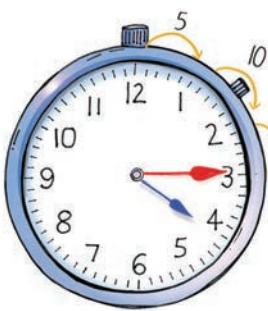


Lunanga lupfufhi lwo ima kha _____.

Lunanga lulapfu lwo ima kha _____.

Ndi _____ u rangela lunanga lulapfu lu tshi ima kha 12.

Ri ri ndi _____ u ya kha _____.



Lunanga lupfufhi lwo ima kha _____.

Lunanga lulapfu lwo ima kha _____.

Ndi _____ u rangela lunanga lulapfu lu tshi ima kha 12.

Ri ri ndi _____ u ya kha _____.

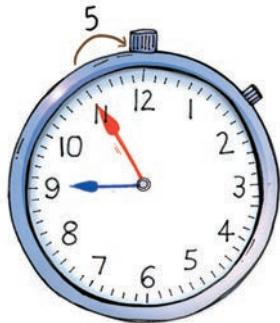
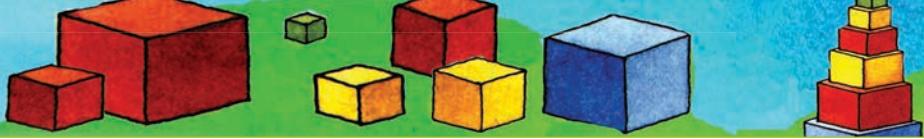


Lunanga lupfufhi lwo ima kha _____.

Lunanga lulapfu lwo ima kha _____.

Ndi _____ u rangela lunanga lulapfu lu tshi ima kha 12.

Ri ri ndi _____ u ya kha _____.



Lunanga lupfufhi lwo ima kha _____.

Lunanga lulapfu lwo ima kha _____.

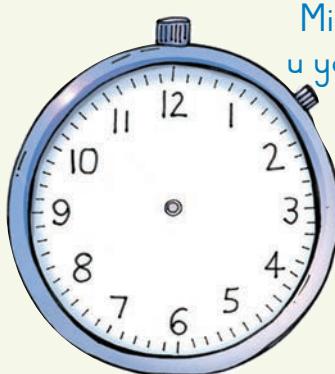
Ndi _____ u rangela lunanga lulapfu lu tshi ima kha 12.

Ri ri ndi _____ u ya kha _____.



Olani lunanga lulapfu na lunanga lupfufhi.

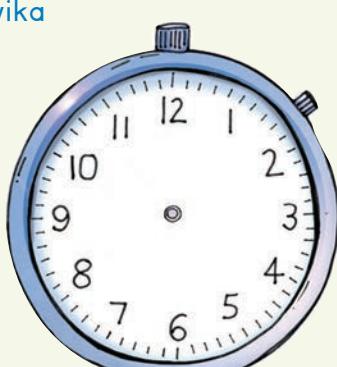
Minete miyanu u
ya kha awara
ya vhumalo.



Minete miyanu u
ya kha awara ya
u thoma.



Fumiraru u swika
kha sumbe.

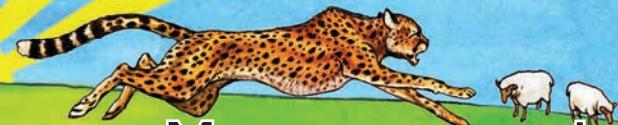


Minete ya fumbili
u ya kha awara ya
vhuraru.

Minete ya fumi u
ya kha awara ya
rathi.

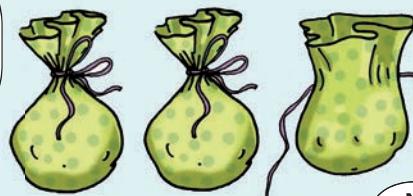


Teacher:
Sign:
Date:



Mut^uanganyomudovhololwa (ndovhololo ya mut^uanganyo)

Ndi na zwiputo zwa 3 zwi re na malegere a 2 kha nthihi.



Ndi nga i nwala
 $2 + 2 + 2 = 6$ kana
 $3 \times 2 = 6$

Ndi na zwiputo zwa 3 zwi re na malegere a 5 kha nthihi.



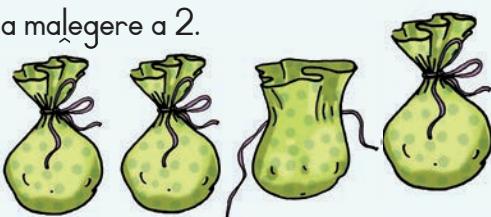
Ndi nga i nwala sa
 $5 + 5 + 5 = 15$
 kana $3 \times 5 = 15$



Lavhelesani zwiputo zwa 3 zwi re na malegere:

- Nwalani mbalo ya u tanganya ya tshiⁿwe na tshiⁿwe.
- Nwalani mbalo ya mu^uanganyo ya linwe na linwe.
- Nwalani mbalo ya muandiso ya linwe na linwe.

Tshiputo tshiⁿwe na tshiⁿwe tsho vhofhiwaho tshi na malegere a 2.

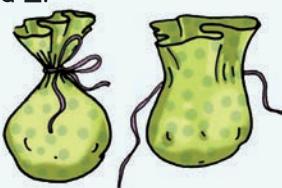


Fhungo: zwigwada zwivhili zwa 2

Mbalo ya mu^uanganyo: $2 + 2 + 2 + 2 =$ ___

Mbalo ya muandiso: $4 \times 2 =$ ___

Tshiputo tshiⁿwe na tshiⁿwe tsho vhofhiwaho tshi na malegere a 2.

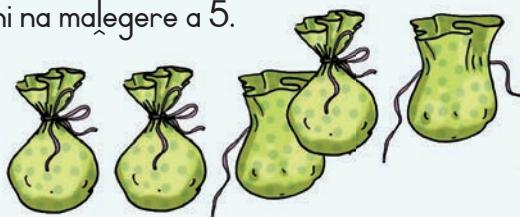


Fhungo: _____

Mbalo ya mu^uanganyo: _____

Mbalo ya muandiso: _____

Tshiputo tshiⁿwe na tshiⁿwe tsho vhofhiwaho tshi na malegere a 5.

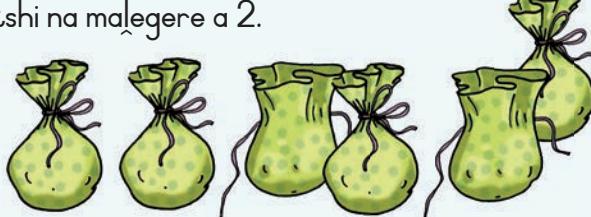


Fhungo: _____

Mbalo ya mu^uanganyo: _____

Mbalo ya muandiso: _____

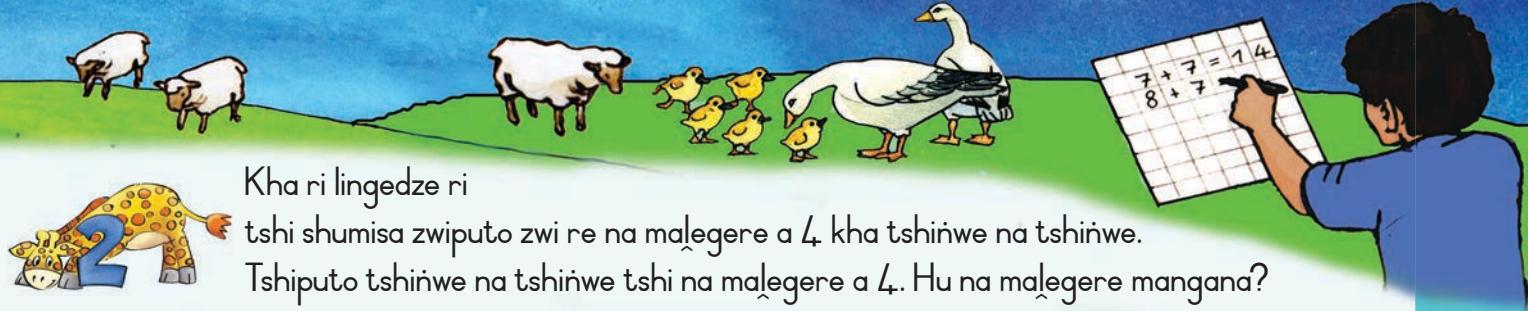
Tshiputo tshiⁿwe na tshiⁿwe tsho vhofhiwaho tshi na malegere a 2.



Fhungo: _____

Mbalo ya mu^uanganyo: _____

Mbalo ya muandiso: _____



Fhungo: zwigwada zwa 7 zwa 4

Mbalo ya mu^{langanyo}:

$$4 + 4 + 4 + 4 + 4 + 4 + 4 = 28$$

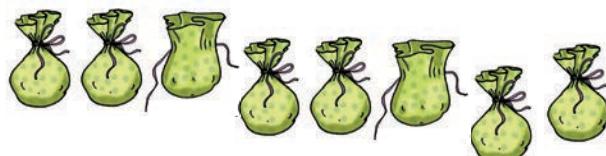
$$\text{Mbalo ya muandiso: } 7 \times 4 = 28$$



Fhungo: _____

Mbalo ya mu^{langanyo}: _____

Mbalo ya muandiso: _____



Fhungo: _____

Mbalo ya mu^{langanyo}: _____

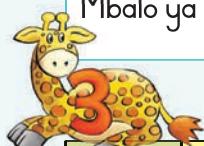
Mbalo ya muandiso: _____



Fhungo: _____

Mbalo ya mu^{langanyo}: _____

Mbalo ya muandiso: _____



Fhedzisani thebulu ya muandiso.

x	1	2	3	4	5	6	7	8	9	10
2			6							
4					20					
5										50

Ndi na mabogisi ma^{tanu} a re
na ma^{fini} mbili kha ^{linwe} na
^{linwe}. Hu na ma^{fini}
nngana dzo
t^{angana}
dzot^{he}?



Ndi na mabogisi ma^{na} a re na
khekhe dza khaphu ^{tthanu} kha
^{linwe} na ^{linwe}. Hu na khekhe
dza khaphu nngana dzo
t^{angana}
dzot^{he}?



Ndi na mabogisi mararu a re
na dounati n^{na} kha ^{linwe} na
^{linwe}. Hu na dounati
nngana dzo
t^{angana}
dzot^{he}?



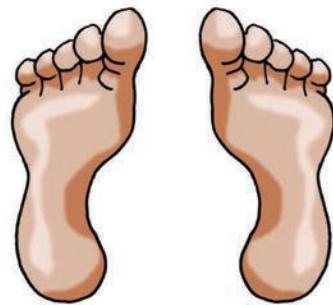
Teacher:
Sign:
Date:



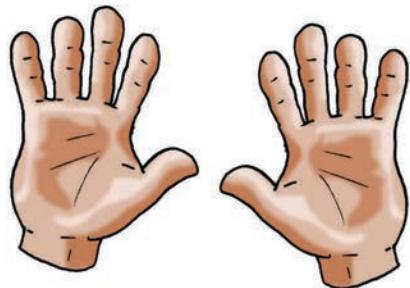
Andisani nga 5

Themo ya 3

Mulenzenze muthihi u na zwikunwe zwa 5.



Tshanda tshithihi tshi na minwe ya 5.



Tshivhalogute tsha zwikunwe
ndi tshifhio?

Tshivhalogute tsha minwe
ndi tshifhio?



Fhedzisani zwi tevhelaho:



×

=

Zwikunwe kha
mulenzhe muthihi



×

=

Minwe kha
tshanda tshithihi



×

=



×

=

Zwikunwe kha
mulenzhe muthihi



×

=



×

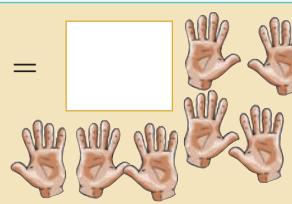
=

Zwikunwe kha
mulenzhe muthihi



×

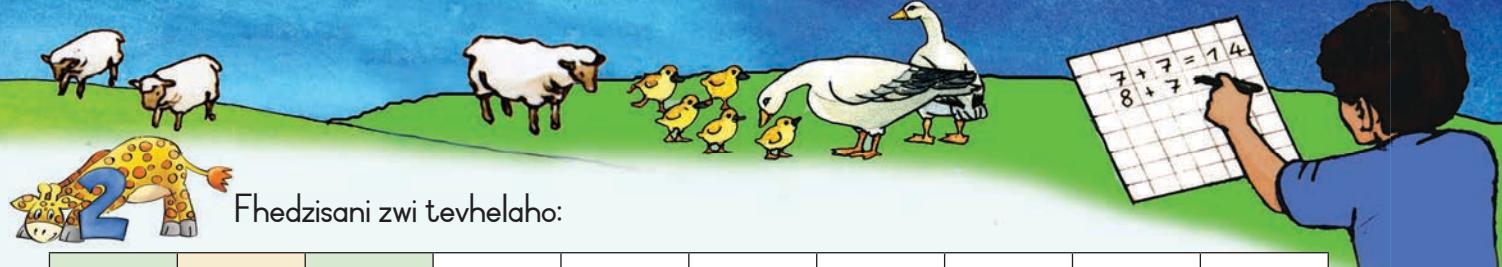
=



×

=

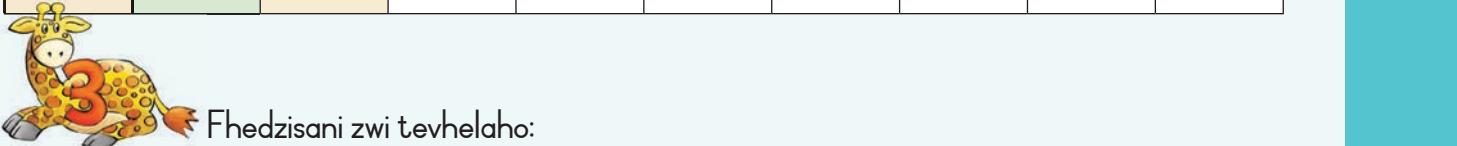
Zwikunwe kha
mulenzhe muthihi



Fhedzisani zwi tevhelaho:

5	10	15						
---	----	----	--	--	--	--	--	--

50	45	40						
----	----	----	--	--	--	--	--	--



Fhedzisani zwi tevhelaho:

$5 \times$ = maapula a <input type="text"/>	$4 \times$ = miomva ya <input type="text"/>
$6 \times$ = miomva ya <input type="text"/>	$7 \times$ = maapula a <input type="text"/>



Fhedzisani zwi tevhelaho:

$15 \times 5 =$ <input type="text"/> $\begin{array}{r} 1 \quad 0 \\ \times 5 \\ \hline \end{array}$ $= 1 \quad 0 + 5 \times 5$ $= 1 \quad 0 \times 5 + 5 \times 5$ $= 50 + 25$ $= 75$	$12 \times 5 =$ <input type="text"/> $\begin{array}{r} 1 \quad 0 \\ \times 5 \\ \hline \end{array}$ $= \boxed{\quad} + \boxed{\quad} \times \boxed{\quad}$ $= \boxed{\quad} \times \boxed{\quad} + \boxed{\quad} \times \boxed{\quad}$ $= \boxed{\quad} + \boxed{\quad}$ $= \boxed{\quad}$
--	---

$14 \times 5 =$ <input type="text"/> $\begin{array}{r} 1 \quad 0 \\ \times 5 \\ \hline \end{array}$ $= \boxed{\quad} + \boxed{\quad} \times \boxed{\quad}$ $= \boxed{\quad} \times \boxed{\quad} + \boxed{\quad} \times \boxed{\quad}$ $= \boxed{\quad} + \boxed{\quad}$ $= \boxed{\quad}$	$13 \times 5 =$ <input type="text"/> $\begin{array}{r} 1 \quad 0 \\ \times 5 \\ \hline \end{array}$ $= \boxed{\quad} + \boxed{\quad} \times \boxed{\quad}$ $= \boxed{\quad} \times \boxed{\quad} + \boxed{\quad} \times \boxed{\quad}$ $= \boxed{\quad} + \boxed{\quad}$ $= \boxed{\quad}$
---	---



Teacher:
Sign:
Date:

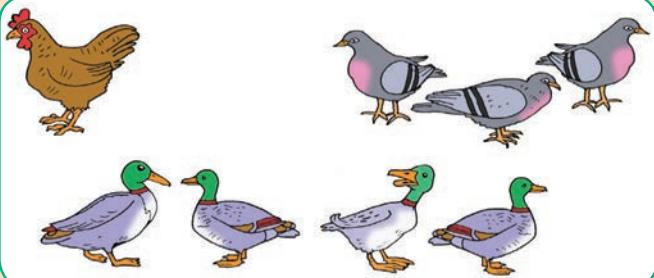


Muandiso 2

Deithi:

Themo ya 3

Zwiñoni zwoþhe zwi na milenzhe ya 2.



Zwiñoni zwoþhe zwi na phapha dza 2.

Thanganyelo ya milenzhe tshifanyisoni itshi ndi tshifhio?

Thanganyelo ya phapha tshifanyisoni itshi ndi tshifhio?



Lavhelesani tshifanyiso ni fhedzise zwi tevhelaho.

maivha



$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha Milenzhe nga
maivha tshiñoni

$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha Milenzhe nga
maivha tshiñoni

masekhwa



$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha Milenzhe nga
masekwa tshiñoni

$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha Milenzhe nga
masekwa tshiñoni



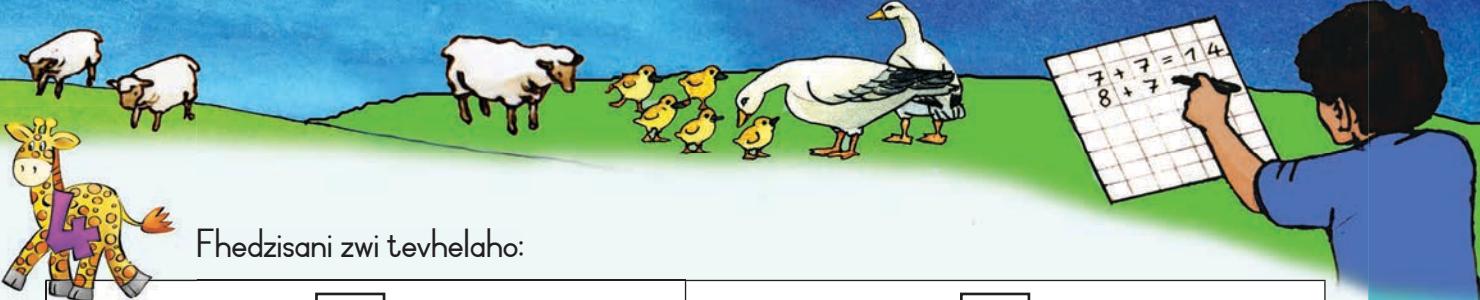
Fhedzisani zwi tevhelaho:

2	4	6							
20	18	16							



Fhedzisani zwi tevhelaho:

5 × = maapula a <input type="text"/>	4 × = miomva ya <input type="text"/>
6 × = miomva ya <input type="text"/>	7 × = maapula a <input type="text"/>



Fhedzisani zwi tevhelaho:

$$12 \times 2 = \boxed{}$$

$$\begin{array}{r} 1 \textcolor{teal}{0} \\ \textcolor{red}{2} \\ \times 2 \end{array}$$

$$= \boxed{1 \textcolor{teal}{0}} + \boxed{2} \times 2$$

$$= \boxed{1 \textcolor{teal}{0}} \times 2 + \boxed{2} \times 2$$

$$= 20 + 4$$

$$= 24$$



$$15 \times 2 = \boxed{}$$

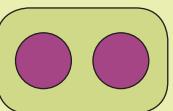
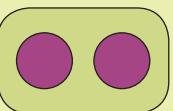
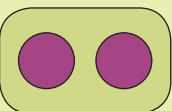
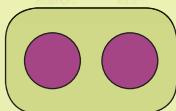
$$\begin{array}{r} 1 \textcolor{teal}{0} \\ \textcolor{red}{5} \\ \times 2 \end{array}$$

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

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

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

$$= \boxed{}$$



$$2 + 2 + 2 + 2 = 8$$

kana

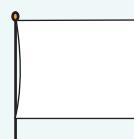
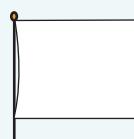
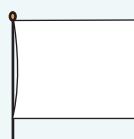
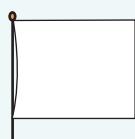
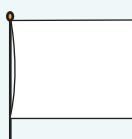
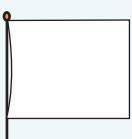
$$4 \times 2 = 8$$

kana

$$8 \div 2 = 4$$

Hetshi ndi
tshiga tsha
mukovho

Olani ፻aledzi dza 2 kha fulaga iñwe na iñwe.



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

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



Hu na zwibuloko zwingana kha mabaphathi aya a tshokoleithi?

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

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



Teacher:

Sign:

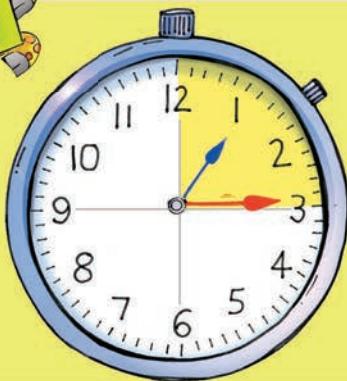
Date:

85a

Themo ya 3



Ambani nga watshi.



Kotara u bva kha

Deithi:

Lun^ganga lupfufhi lu kha di tou bva u fhira awara ya u thoma.

Lun^ganga lulapfu lwo ima kha miminete ya fumithhanu.

Ri ri ndi kotara u bva kha awara ya u thoma.

Ri khou amba uri ndi themo ya awara (miminete ya 15)

u bva kha awara ya u thoma.



Ndi tshifhingade?



Lun^ganga lupfufhi lu kha di tou bva u fhira _____.

Lun^ganga lulapfu lwo ima kha miminete ya _____.

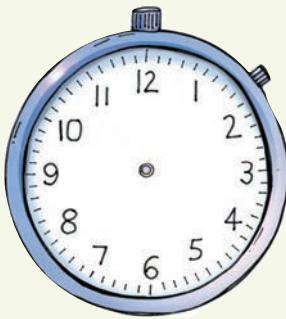
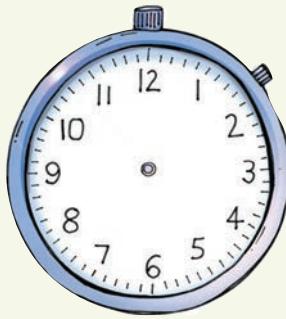
Ri ri ndi _____ u bva kha _____.

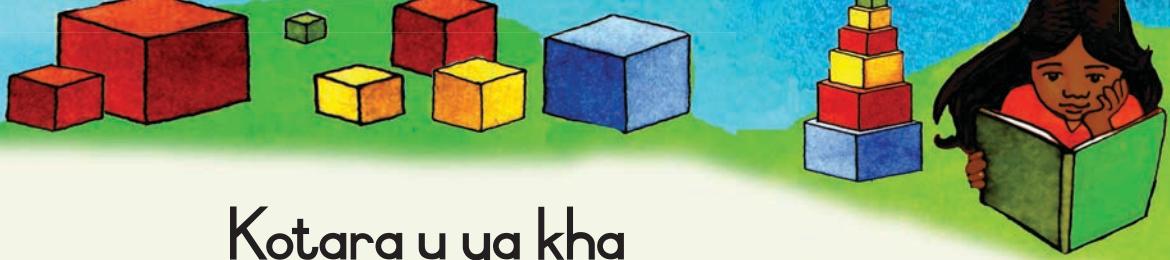


Oiani lun^ganga lulapfu na lun^ganga lupfufhi.

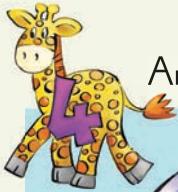
Kotara u bva kha 8.

Kotara u bva kha 3.

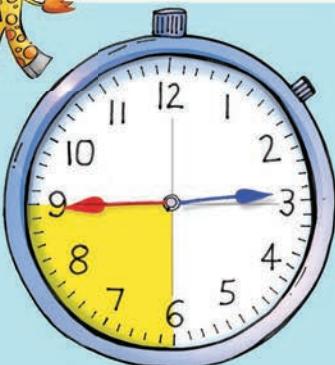




Kotara u ya kha



Ambani nga watshi.



Lunanga lupfufhi lutsinitsini na raru.

Lunanga lulapfu lwo ima kha miminete ya fuinathhanu.

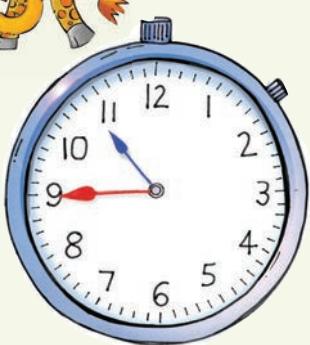
Ri ri ndi Kotara u ya kha awara ya vhuraru.

Ri khou amba uri ndi themo ya awara (miminete ya 15)

u rangela kha awara ya u vhuraru.



Ndi tshifhingade?



Lunanga lupfufhi lu tsinitsini na _____.

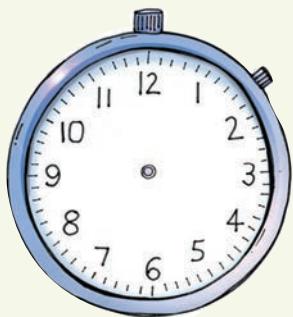
Lunanga lulapfu lwo ima kha miminete ya _____.

Ri ri ndi _____ u ya kha _____ .

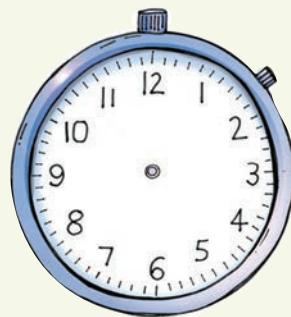


Oiani lunanga lulapfu na lunanga lupfufhi.

Kotara u bva kha 4.



Kotara u bva kha 8.



Teacher:
Sign:
Date:

85b



Tshifhinga tshi a tshimbila

Deithi:

Themo ya 3

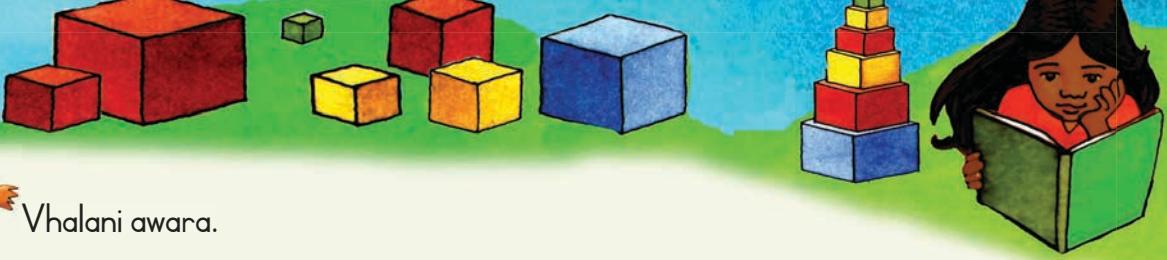


Zwo dzhia tshifhinga tshingafhani u ita mushumo?





Vhalani awara.



Hu na awara nngana u bva kha awara ya 4 u swika kha awara ya 7? _____

Hu na awara nngana u bva kha awara ya 8 u swika kha awara ya 12? _____

Hu na awara nngana u bva kha awara ya 1 u swika kha awara ya 8? _____

Hu na awara nngana u bva kha awara ya 5 u swika kha awara ya 10? _____

Hu na awara nngana u bva kha awara ya 2 u swika kha awara ya 11? _____



Olani tshifanyiso tsha.

Vhonani o dalela khonani yawe nga awara ya 10 nga Mugivhela nga matsheloni.
A vhuya hayani nga awara ya 3 mathabama. U vha a siho awara nngana?



Ndalamo o vha o ya u rea khovhe na khotsi awe. Vho ḫuwa nga awara ya 4
nga matsheloni vha vhuya hayani nga awara ya 10. Vho ḫuwa awara nngana?



Teacher:
Sign:
Date:



Uinga kavhili

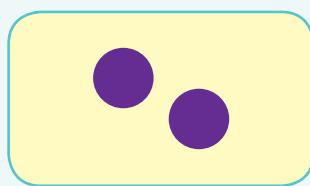
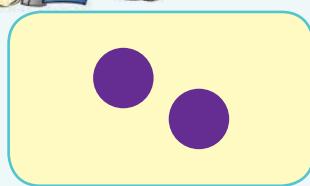
Themo ya 3



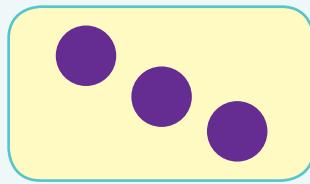
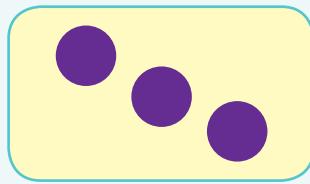
Lavhelesani tshifanyiso tsha u thoma na tsha vhuvhili. Ho itea mini?



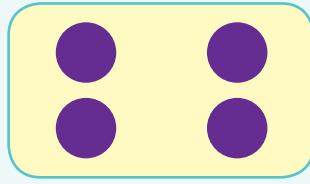
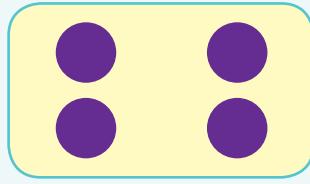
Engedzani zwithoma, ni ḥwale mbalo ya iñwe na iñwe.



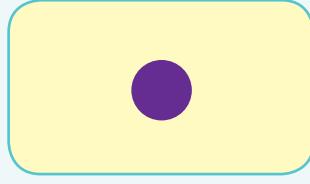
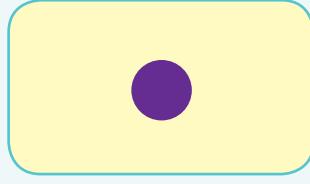
$$\boxed{\quad} + \boxed{\quad} = \boxed{\quad}$$



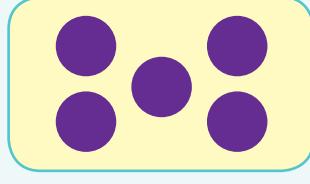
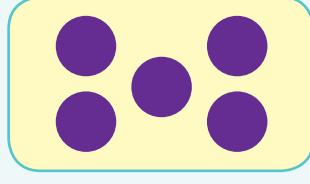
$$\boxed{\quad} + \boxed{\quad} = \boxed{\quad}$$



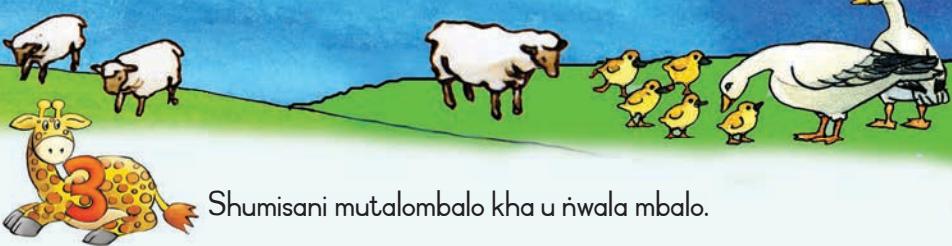
$$\boxed{\quad} + \boxed{\quad} = \boxed{\quad}$$



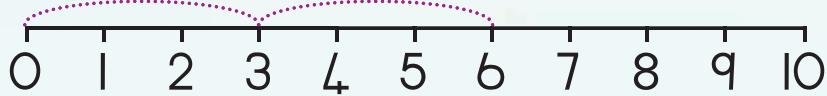
$$\boxed{\quad} + \boxed{\quad} = \boxed{\quad}$$



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



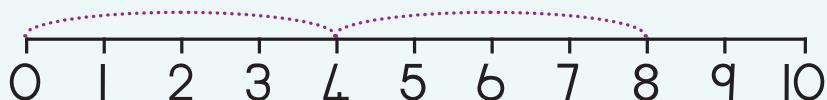
Shumisani mutualombalo kha u nwala mbalo.



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



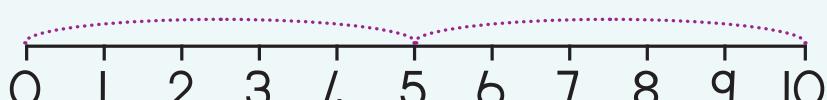
$$\boxed{} + \boxed{} = \boxed{}$$



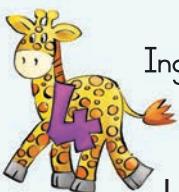
$$\boxed{} + \boxed{} = \boxed{}$$



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



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



Ingani kavhili zwi tevhelaho:

1 kavhili

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

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

2 kavhili

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

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

3 kavhili

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

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

4 kavhili

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

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

5 kavhili

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

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

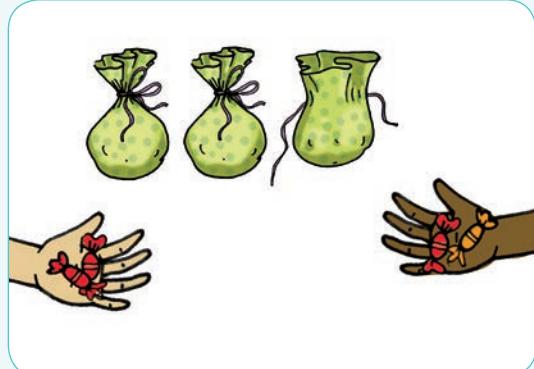


2 4 6 8 10 12 14...

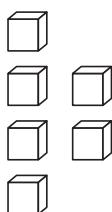




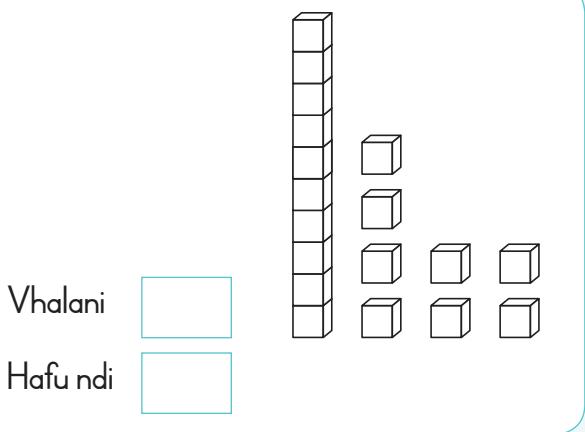
Lavhelesani zwifanyiso zwivhili. Itani tshitɔri tshanu.



Vhalani zwithu ni khalare hafu yazwo.



Vhalani
Hafu ndi



Vhalani
Hafu ndi



Fhedzisani zwi tevhelaho ni ole tshifanyiso.

--

$$12 \text{ yo ingwa} \\ \text{kavhili ndi} \quad \boxed{} \\ \boxed{} + \boxed{}$$

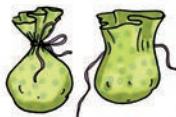


Fhedzisani

14	8		16	
1	2	2	1	9



Lavhelesani zwifanyiso zwivhili. Itani tshitoro tshanu.

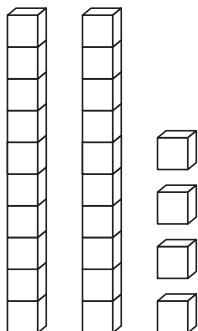


Hu na malegere a 10 phakhetheni.



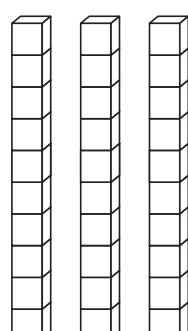
Vhalani zwithu ni khalare hafu yazwo.

Vhalani



Hafu ndi

Vhalani



Hafu ndi



Fhedzisani zwi tevhelaho ni ole tshifanyiso.

16 yo ingwa

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

kavhili ndi

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



Fhedzisani.

34

<input type="text"/>					
		22		19	

36

40



Teacher:

Sign:

Date:



Muandiso muñwe hafhu

Themo ya 3

Zwipuka zwothe zwi na milenzhe ya 4.



Zwipuka zwothe zwi na maço a 2.

Tshivhalogute tsha milenzhe
tshifanyisoni itshi ndi tshifhio?

Tshivhalogute tsha ndevhe
tshifanyisoni itshi ndi tshifhio?



Lavhelesani tshifanyiso ni fhedzise zwi tevhelaho:

Mmbwa

$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha mmbwa Milenzhe nga tshipuka

$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha mmbwa Ndèvhe nga tshinoni

Tshivhalo tsha phukha dza daka

$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha phukha Milenzhe nga tshipuka

$$\boxed{} \times \boxed{} = \boxed{}$$

Tshivhalo tsha phukha Milenzhe nga tshipuka



Fhedzisani zwi tevhelaho:

4	8	12								
40	36	32								



Fhedzisani zwi tevhelaho

$$5 \times \begin{array}{c} \text{apple} \\ \text{apple} \\ \text{apple} \end{array} = \text{maapula a } \boxed{}$$

$$4 \times \begin{array}{c} \text{banana} \\ \text{banana} \\ \text{banana} \\ \text{banana} \end{array} = \text{miomva ya } \boxed{}$$

$$6 \times \begin{array}{c} \text{banana} \\ \text{banana} \\ \text{banana} \\ \text{banana} \end{array} = \text{miomva ya } \boxed{}$$

$$7 \times \begin{array}{c} \text{apple} \\ \text{apple} \\ \text{apple} \end{array} = \text{maapula a } \boxed{}$$



Fhedzisani zwi tevhelaho:

$$14 \times 4 = \boxed{}$$

$$\begin{array}{r} 1 \quad 0 \\ + \quad 4 \\ \hline 1 \quad 0 \end{array} \times 4$$

$$= \boxed{1 \quad 0} + \boxed{4} \times 4$$

$$= \boxed{1 \quad 0} \times 4 + \boxed{4} \times 4$$

$$= 40 + 16$$

$$= 56$$

Khonani mbili dzi khou tamba nga sethe mbili dza u ita tie. Vha a dzi nanguludza nga murahu. Vha tea u vha na mini na mini u itela uri zwi edana?



$$15 \times 4 = \boxed{}$$

$$\begin{array}{r} 1 \quad 0 \\ + \quad 5 \\ \hline 1 \quad 5 \end{array} \times 4$$

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

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

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

$$= \boxed{}$$



Fhedzisani zwi tevhelaho:



Kovhelani mavhu_{lu} dza 19 vhana vha 4 nga u edana.

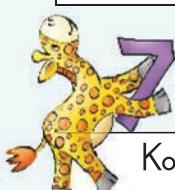
Muñwe na muñwe u wana

Masalela

Kovhelani penisela dza 22 vhana vha 4 nga u edana.

Muñwe na muñwe u wana

Masalela



Olanı tshifanyiso ni tshi sumbedza phindulo dzanu.

Kovhelani mabisikitsi a 23 vhana vha 4 nga u edana.

Muñwe na muñwe u wana

Masalela

Kovhelani lolipop dza 15 vhana vha 4 nga u edana.

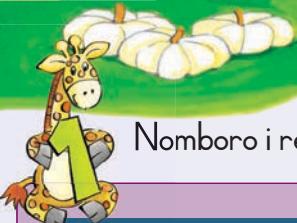
Muñwe na muñwe u wana

Masalela



Phetheni dza nomboro

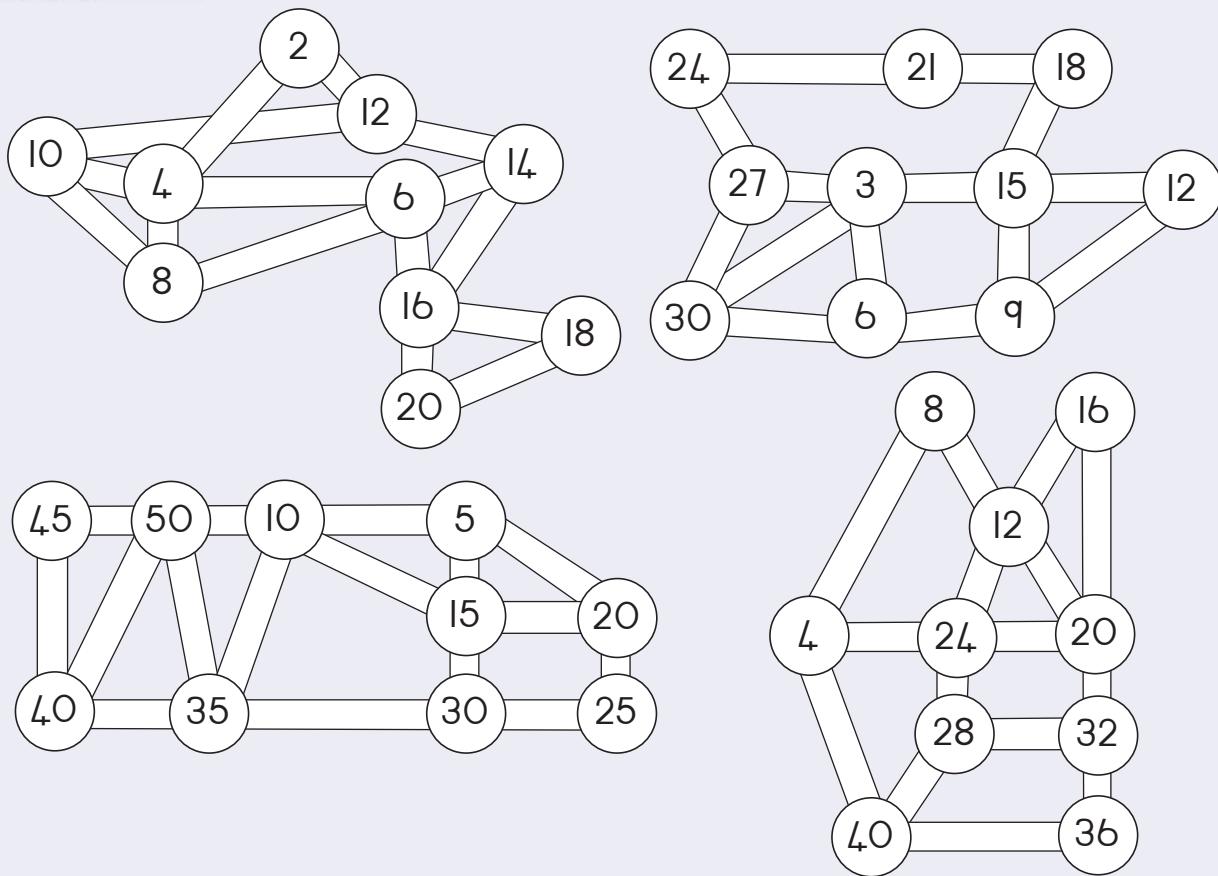
Themo ya 3



Nomboro i re kha siatari li tevhelaho i do vha ifhio?



Topolani phetheni. Olani ludila, ni thome nga nomboro thukhusa.





Olani mañanga kha watshi ni f'hedzise phetheni dza zwif'hinga.

4:20	4:25	_____ : _____	_____ : _____	_____ : _____
11:10	11:20	11:30	_____ : _____	_____ : _____
9:25	9:40	9:55	_____ : _____	_____ : _____
10:30	10:35	10:40	_____ : _____	_____ : _____
5:10	5:20	5:30	_____ : _____	_____ : _____



Teacher:
Sign:
Date:

90



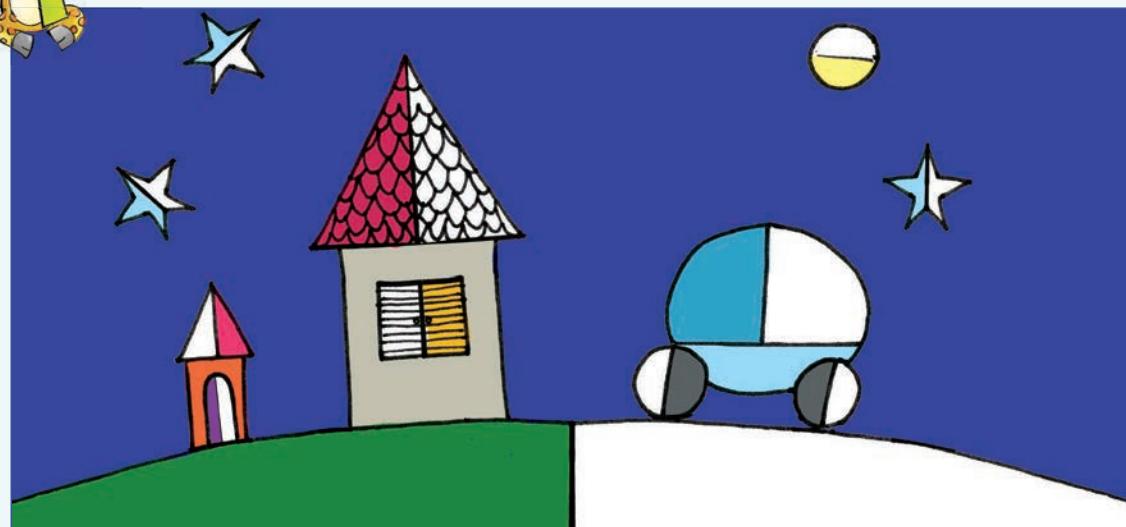
Furakhisheni (zwipida) – hafu

Deithi:

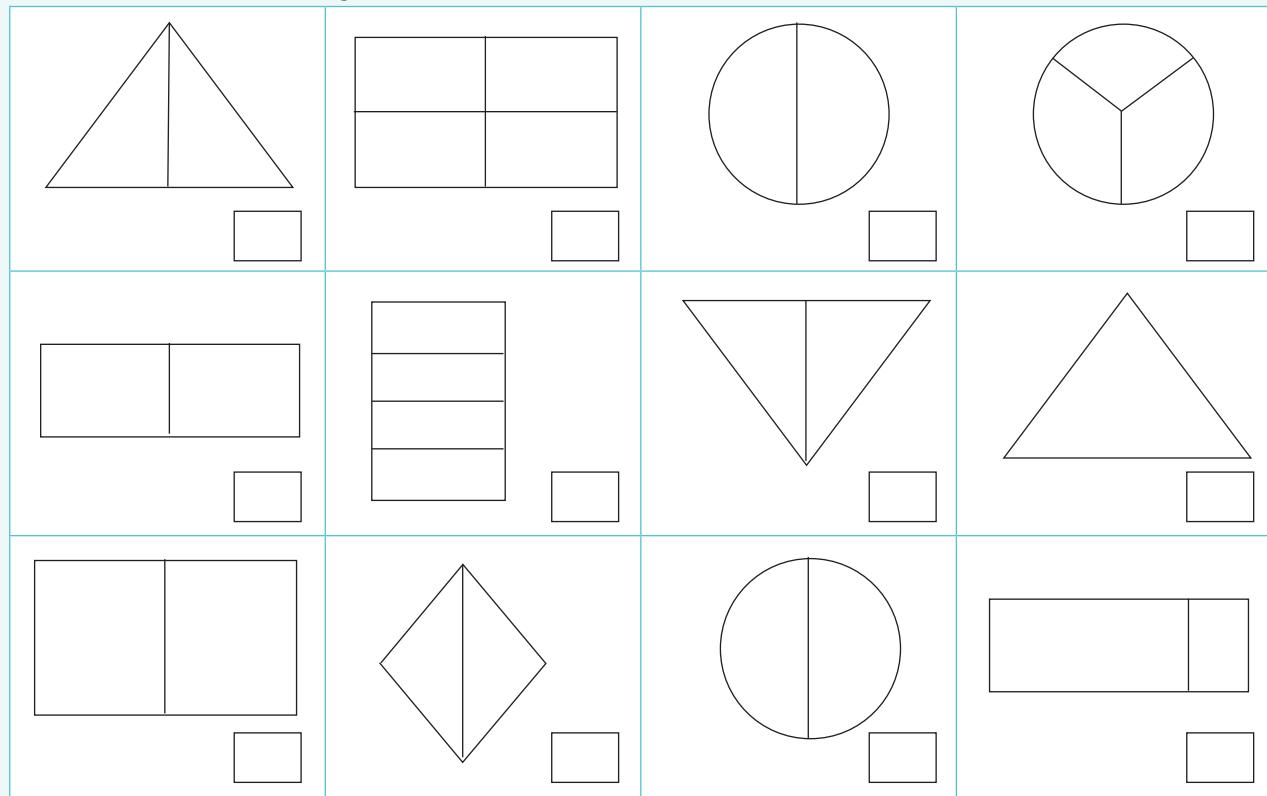
Themo ya 3



Lavhelesani tshifanyiso. Kha_łaranı dzıla džiňwe hafu nga muvhala u no fana.

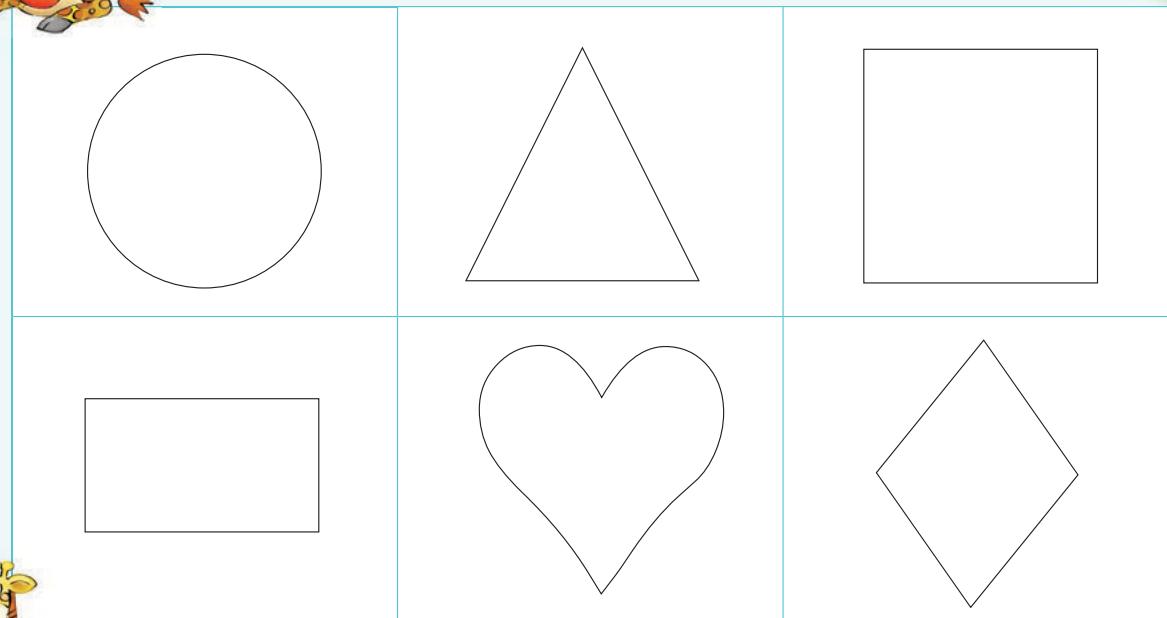


Lavhelesani tshifanyiso. Nwalani thiki kha zwivhumbeo zwi no sumbedza hafu. Kha_łaranı hafu nthihi ya tshivhumbeo tshiňwe na tshiňwe tshe tsha fhandukanywa tsha bva dzihafu.

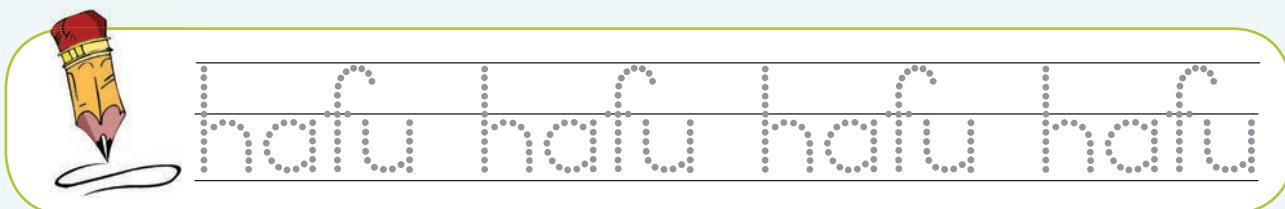
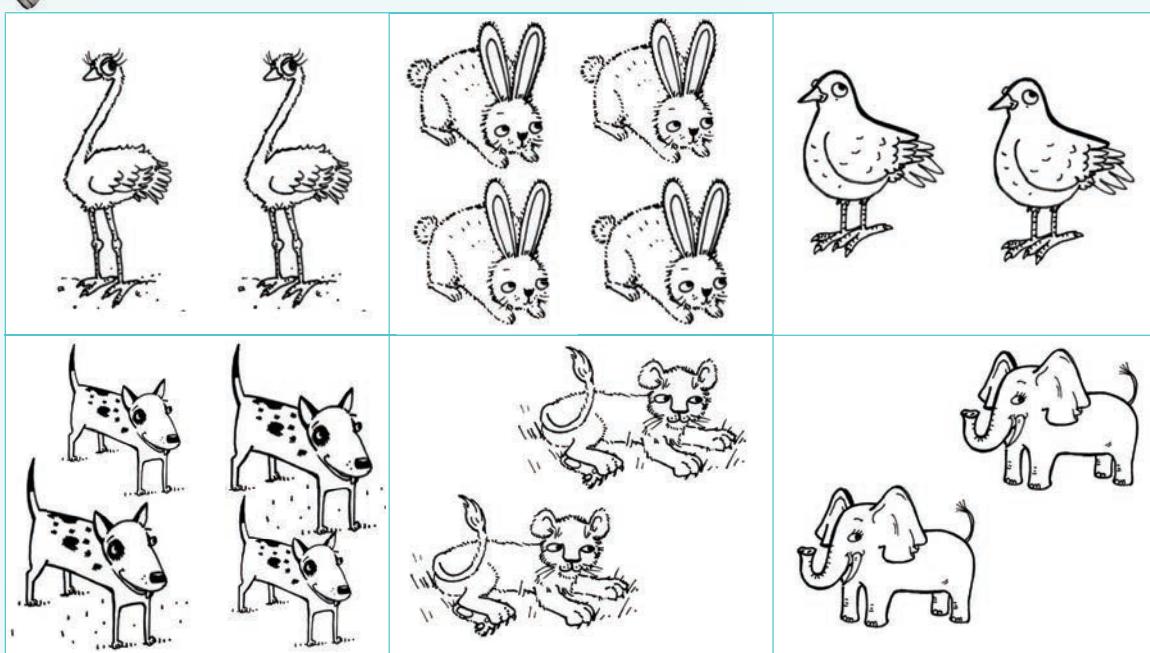




Khalarani hafu ya tshivhumbeo tshinwe na tshinwe.



Khalarani hafu ya zwipuka zwi re kha tshibuloko tshinwe na tshinwe



Teacher: _____
 Sign: _____
 Date: _____

q



Furakhisheni – hafu džiňwe hafhu

Deithi:

Themo ya 3

Lavhelesani tshifanyiso. $\frac{1}{2}$ i amba mini?

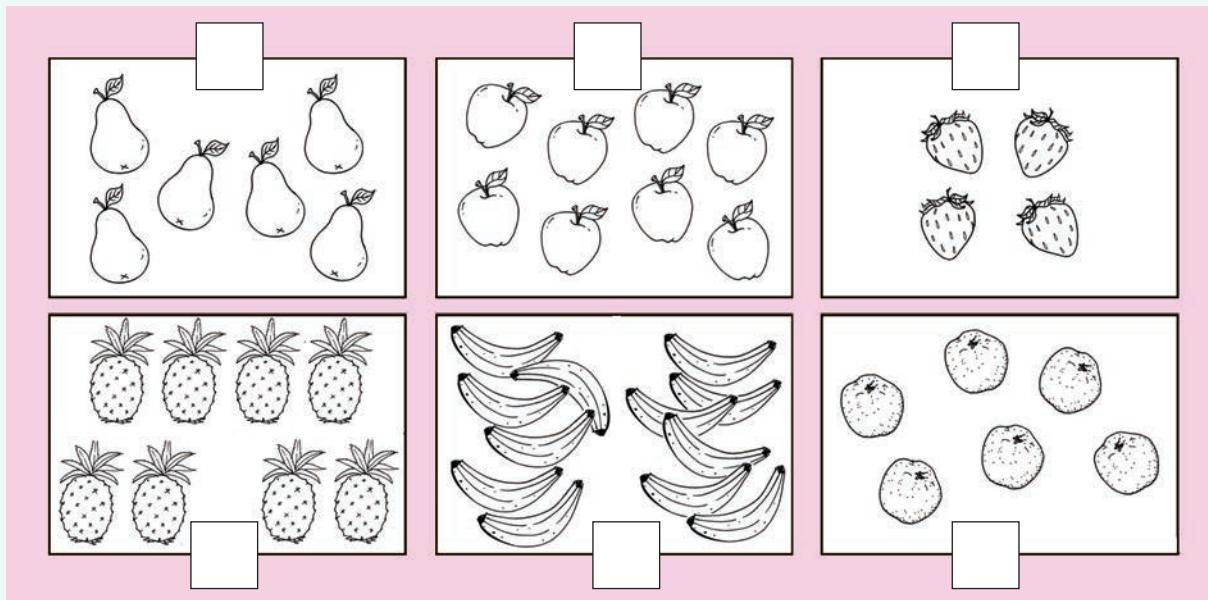


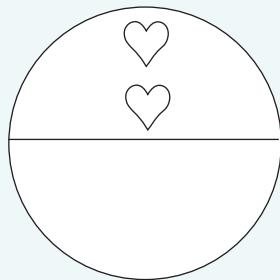
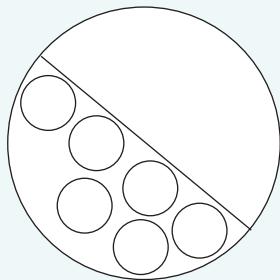
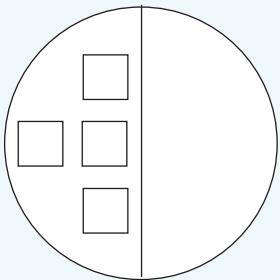
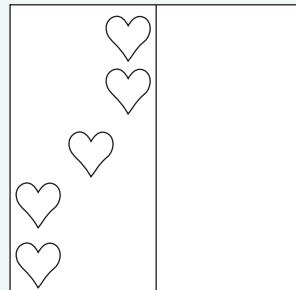
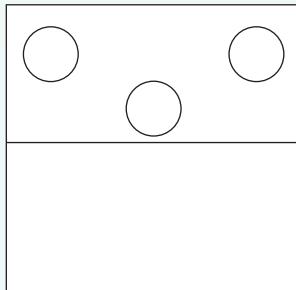
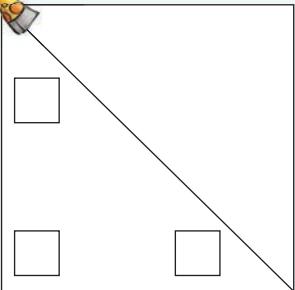
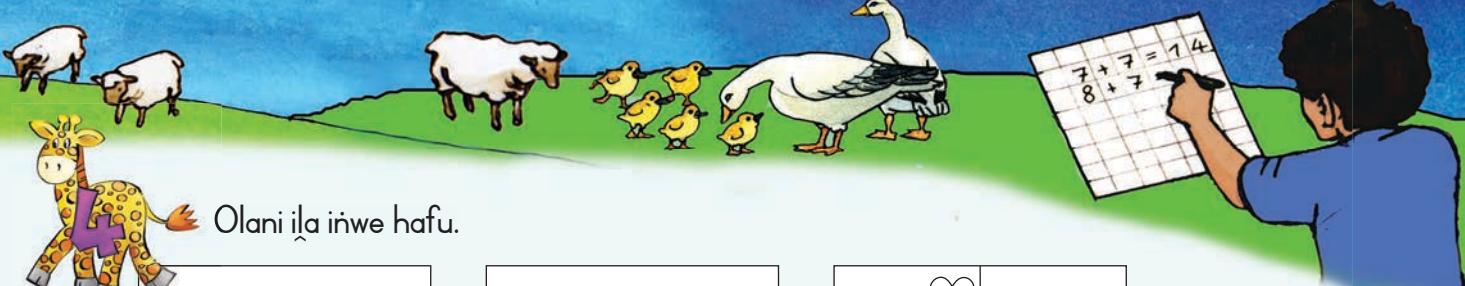
Hafu nthihihi ya maapula a re murini ndi .



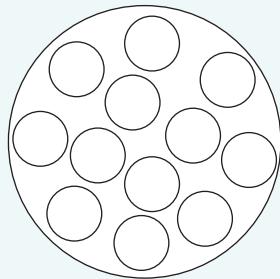
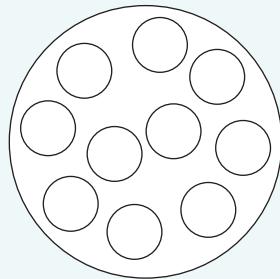
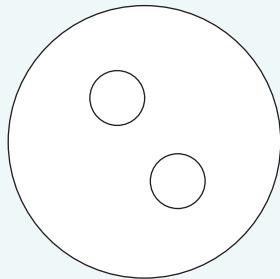
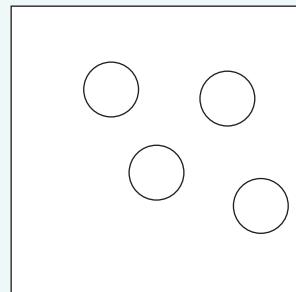
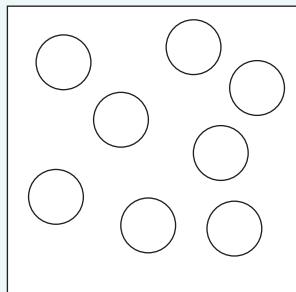
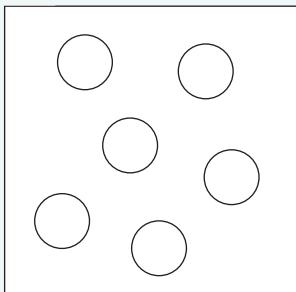
Khalarani hafu ya mitshelo kha tshigwada tshiňwe na tshiňwe.

Hafu ya tshivhalo tsha mitshelo i re kha tshigwada tshiňwe na tshiňwe ndi ifhio?





Khalaranı hafu ya zwivhumbeo.



hafu hafu hafu hafu



Teacher:
Sign:
Date:



Vhuimo na mbonalo

Deithi:

Themo ya 3

Tshinoni tsho ima ngafhi? Maipfi e na newa a do ni thusa.



Mbonalo ya nga phanda ya tshifhatō.

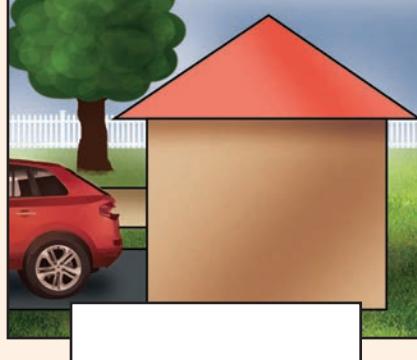
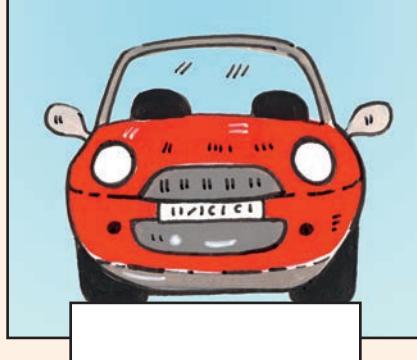
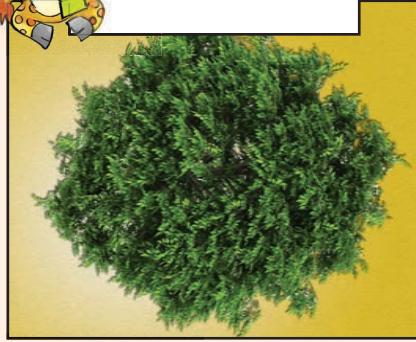


Mbonalo ya nga matungo ya tshifhatō.



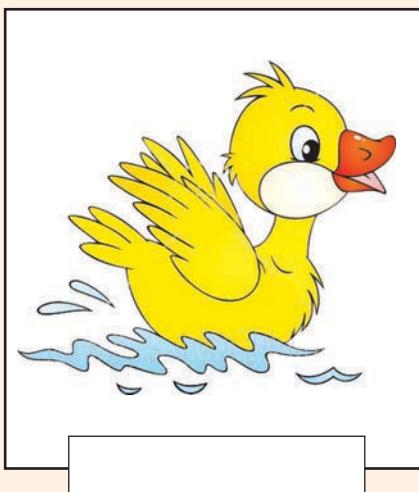
Mbonalo ya nga nthā ya tshifhatō.

Uyu muthu o vha o ima ngafhi musi a tshi vhona itsi tshithu?

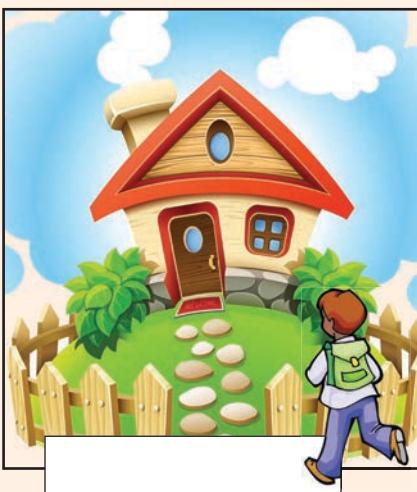


Nwalani maipfi aya kha tshifanyiso. Uyu muthu u khou vhona mini?

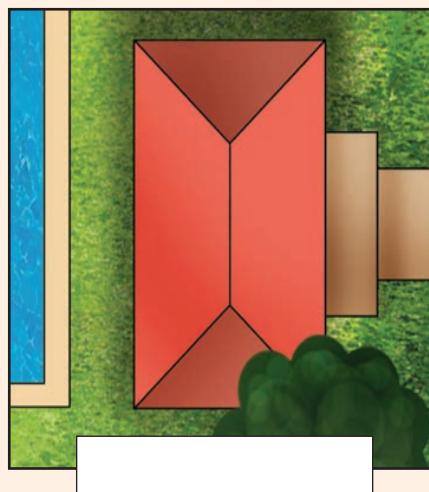
mbonalo ya nga phanda

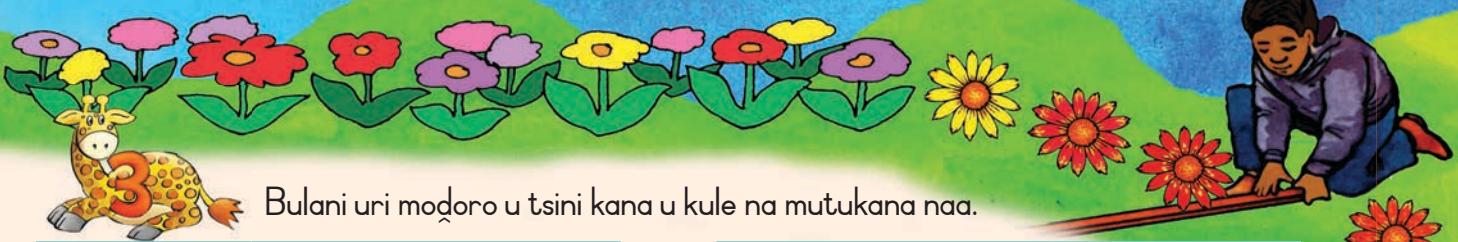


mbonalo ya nga nthā

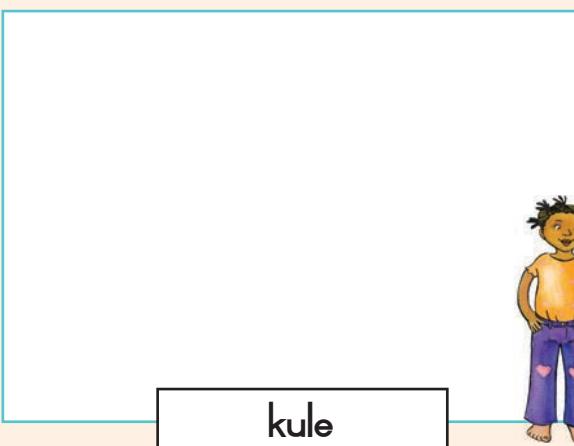
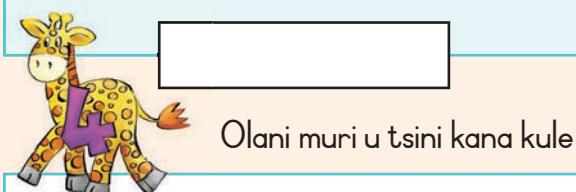
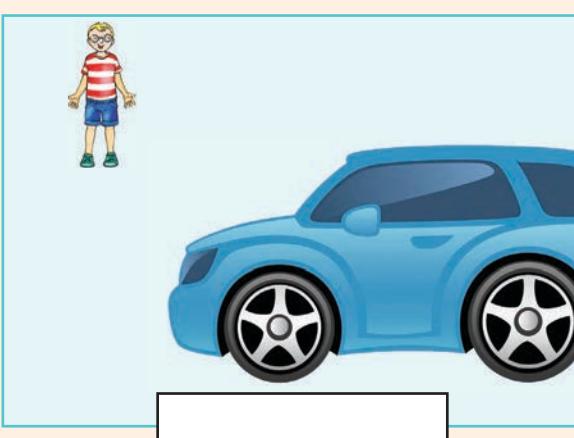
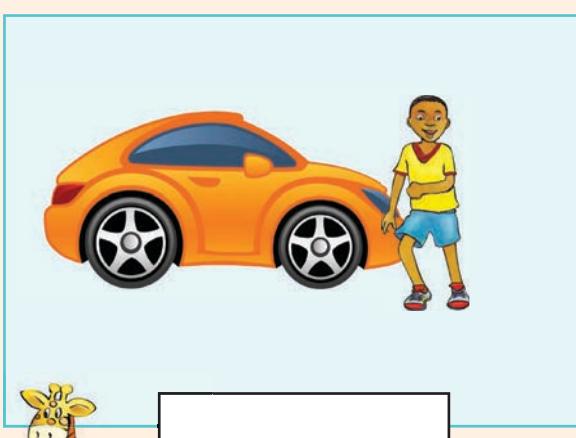
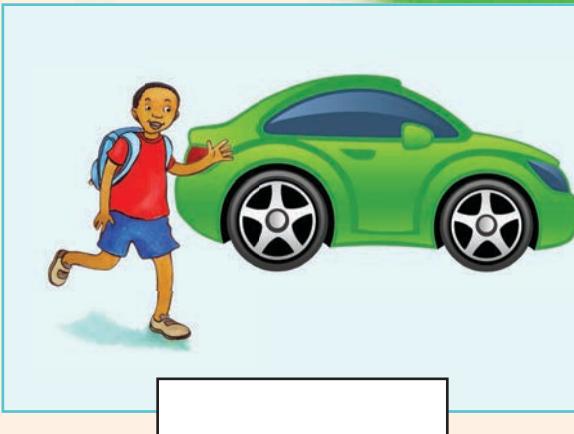
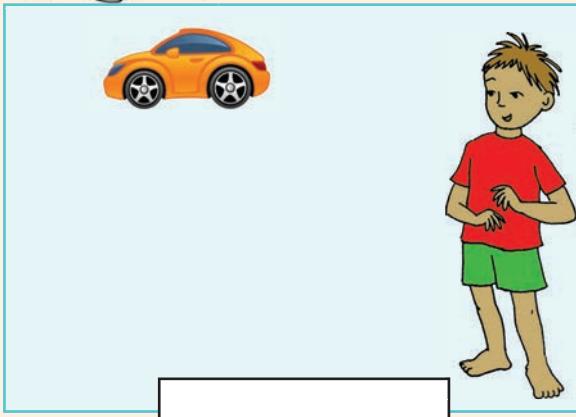


mbonalo ya nga matungo





Bulani uri modoro u tsini kana u kule na mutukana naa.

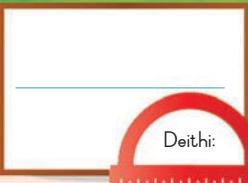
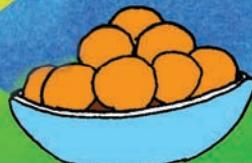


Itani nyito iyi:

- Lavhelesani zwithu zwivhili nga mat^o vhuvhili hao. Ni vhone mini?
- Thivhani lito lithihi nga tshanda, zwino ni vho vhone mini?



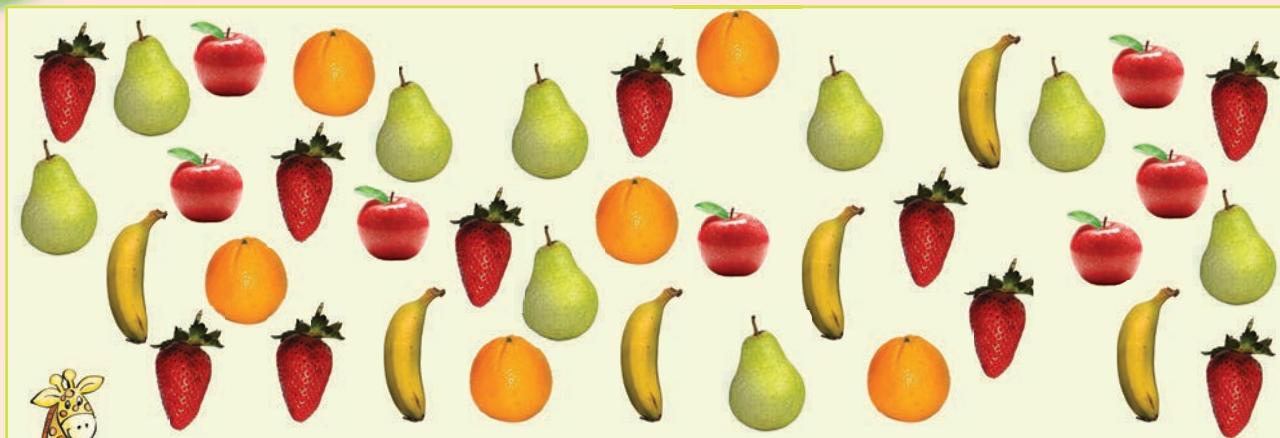
93



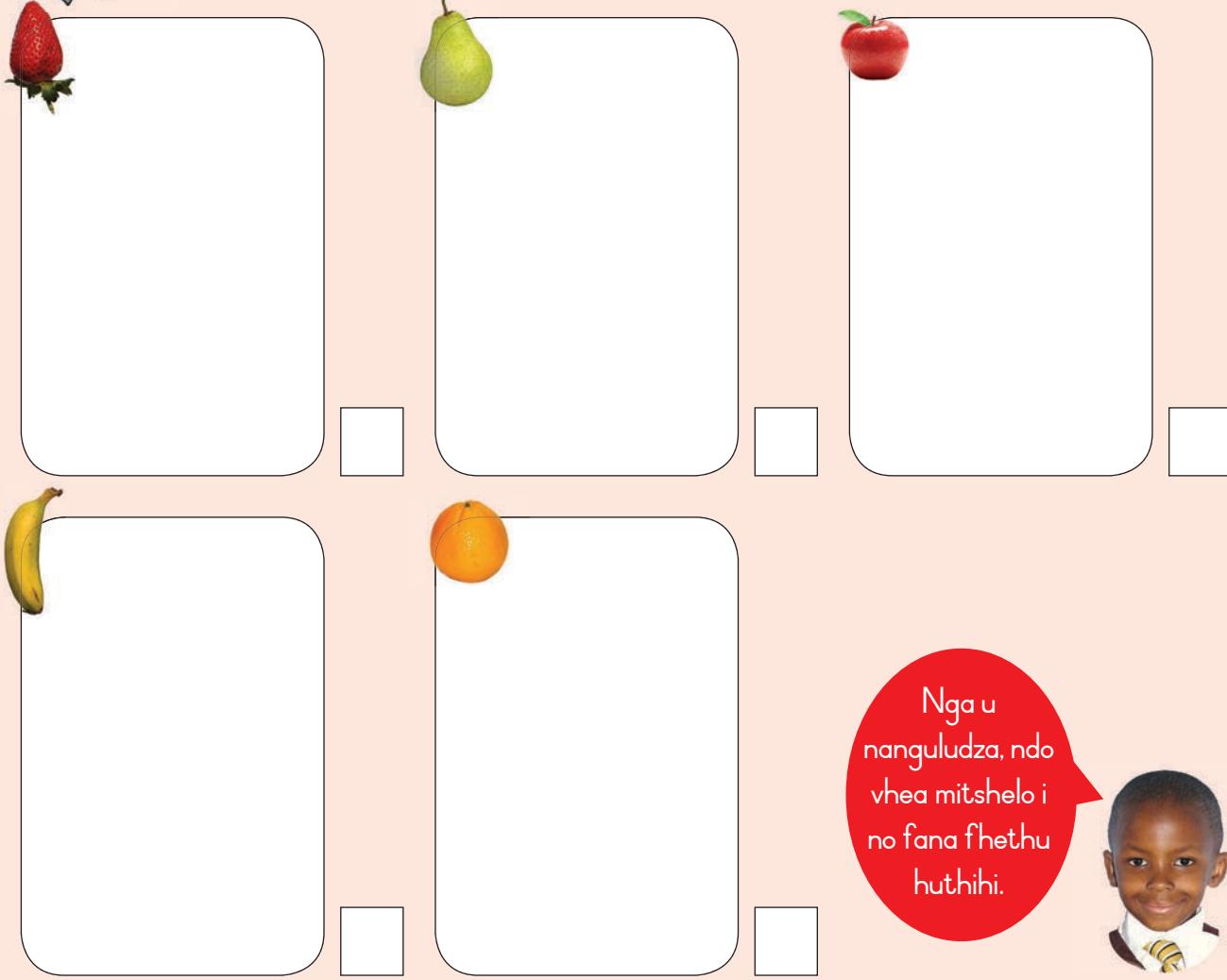
Deithi:

Themo ya 3

Data iñwe haf hufuhafhu

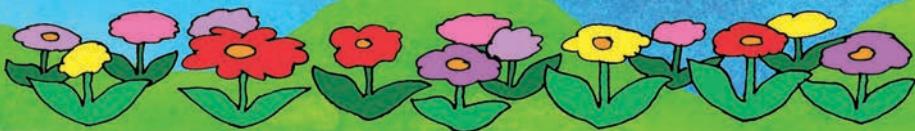


Nanguludzani mitshelo. Olani nyolo yanu ya u zwi sumbedza. Nwalani thanganyelo tshibogisini.



Nga u
nanguludza, ndo
vhea mitshelo i
no fana fhethu
huthihi.





Olani phikhithogirafu ya mitshelo yo nanguludzwaho.

KHII:



Sedzani mitshelo ni fhindule mbudziso.

Fhindulani mbudziso:

Ndi mutshelo ufhio u re munzhi?

Ndi mutshelo ufhio u re mutukuzi?



Teacher: _____
 Sign: _____
 Date: _____

94a



Deithi:

Furakhisheni – dzikota

Themo ya 3

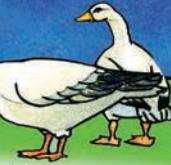


Khałarani kota ya u fhedza nga muvhala muthihi.

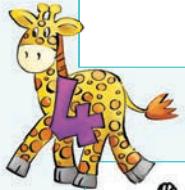
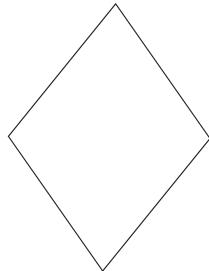
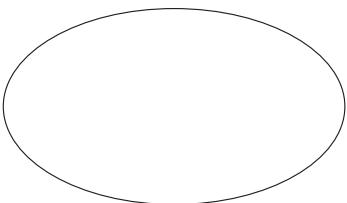
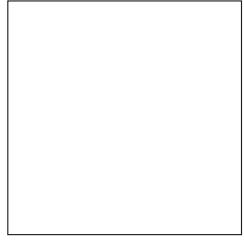
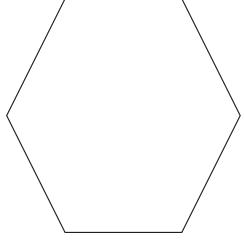
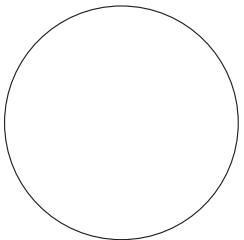


Nwalani thiki kha zwivhumbeo zwi no sumbedza dzikota. Khałarani kota nthihi ya tshivhumbeo tshiñwe na tshiñwe tshe tsha fhandulwa tsha bva dzikota.

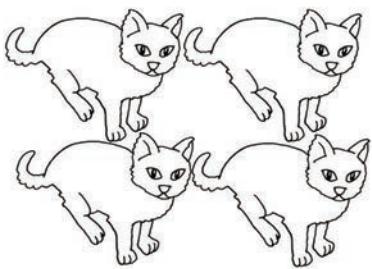
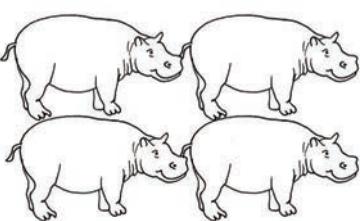
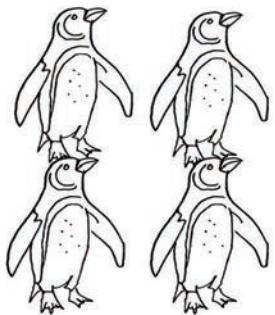
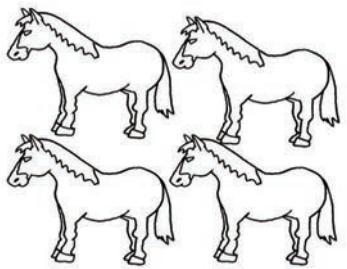
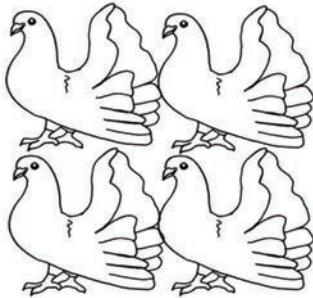
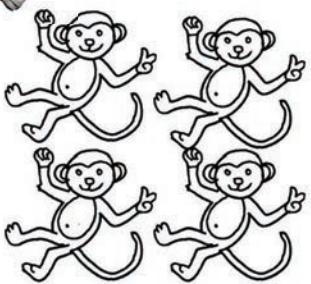
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>



Khalarani kotara nthihi ya tshivhumbeo.



Khalarani kota nthihi ya tshigwada tshiñwe na tshiñwe tsha zwipuka.



kota kota kota

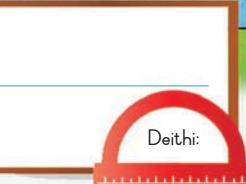
Teacher:

Sign:

Date:



94b

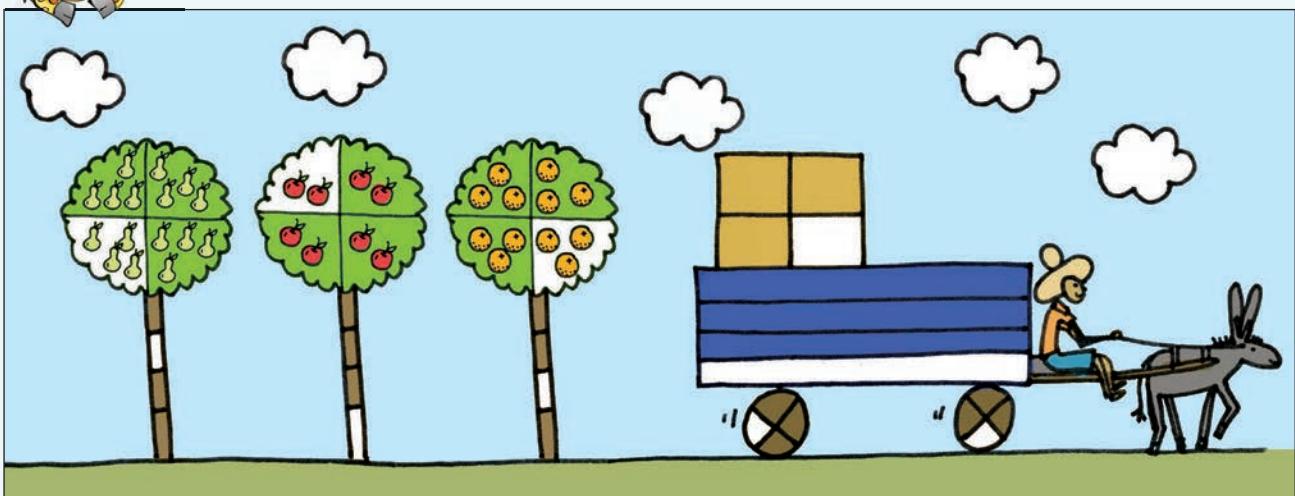


Furakhisheni – kota dziñwe hafhu

Themo ya 3



Khalarani kota ya u fhedza nga muvhala muthihi.



Fhindulani zwi tevhelaho:

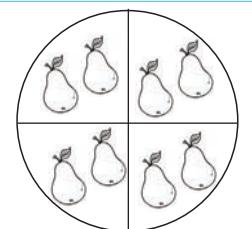
kota nthihi ya mapiere a re murini ndi _____.

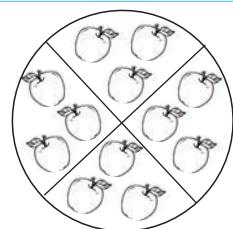
kota nthihi ya maapula a re murini ndi _____.

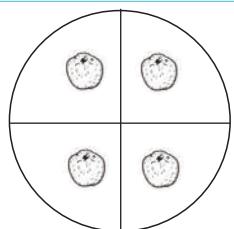
kota nthihi ya maswiri a re murini ndi _____.

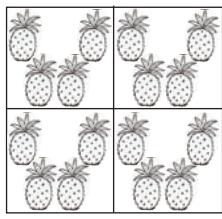


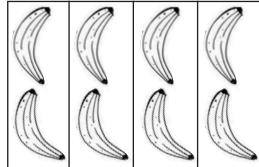
Khalarani $\frac{1}{4}$ nthihi ya mitshelo tshigwadani tshiñwe na tshiñwe. Themo ya tshivhalo tsha mitshelo kha tshigwada tshiñwe na tshiñwe ndi vhugai?

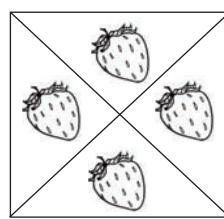






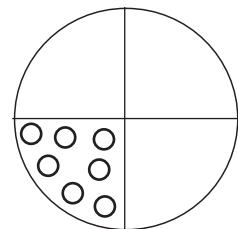
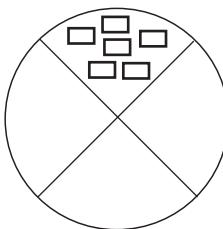
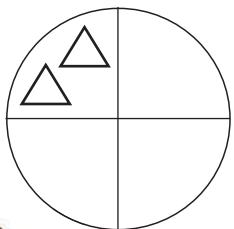
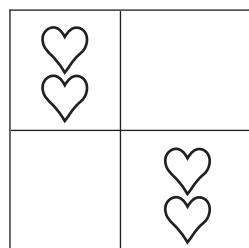
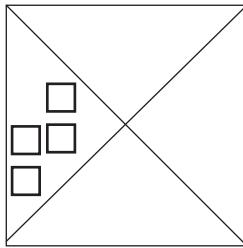
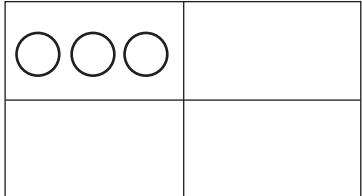




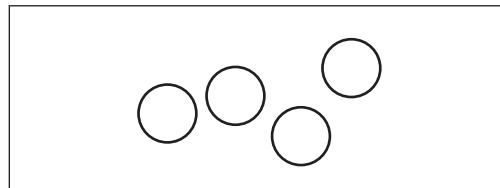
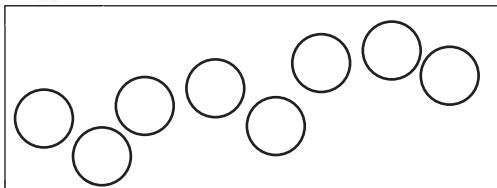




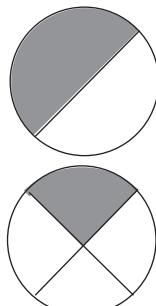
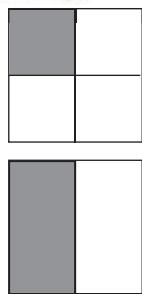
Olani zwiinwe zwivhumbeo u itela uri kota dzi lingane.



Sumbedzani kota nthihi ya zwivhumbeo.



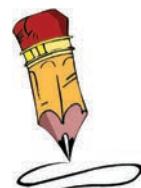
Ndi tshifhio tshi re tshihulwane? Itani thiki kha phindulo yone.



hafunthihi



kota nthihi



kota kota



Teacher:

Sign:

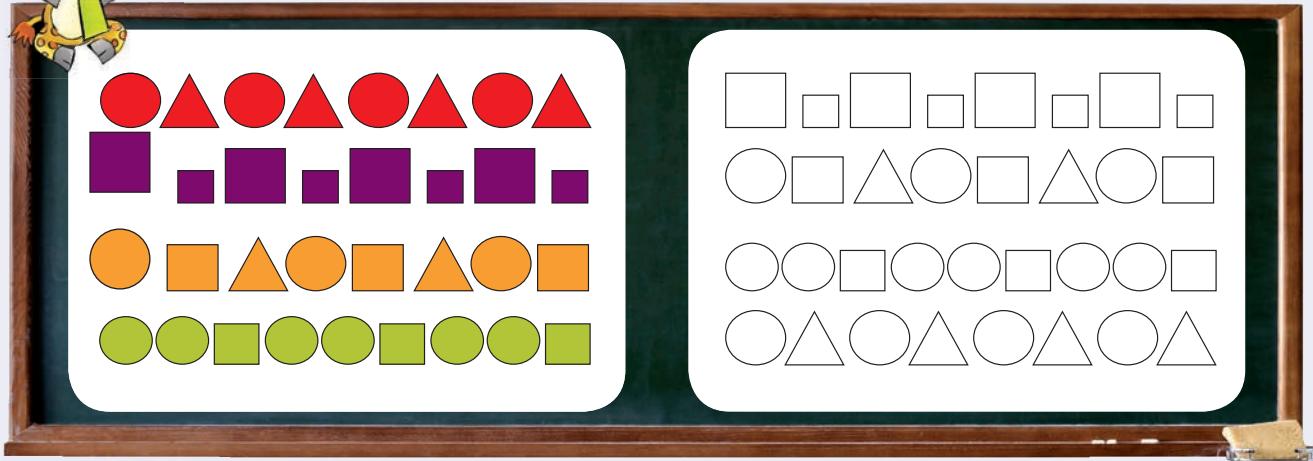
Date:

95

Nomborani phetheni nga zwivhumbeo

Themo ya 3

Livhanyani phetheni.



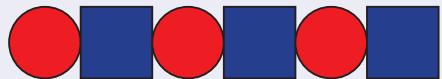
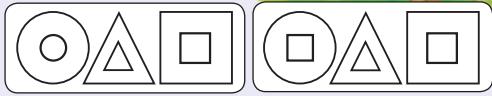
Kopololani phethini i tevhelaho.



Khalaran i phetheni i no tevhela.



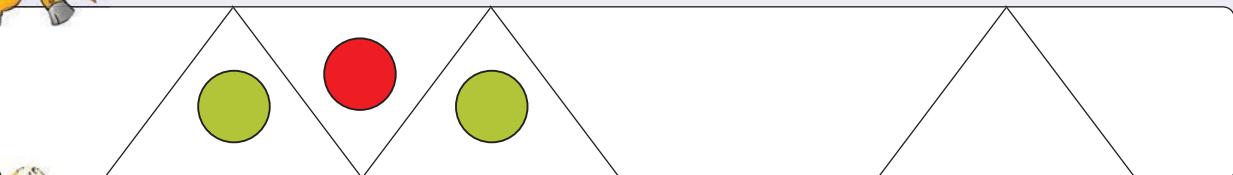
Olan i phetheni i no tevhela.



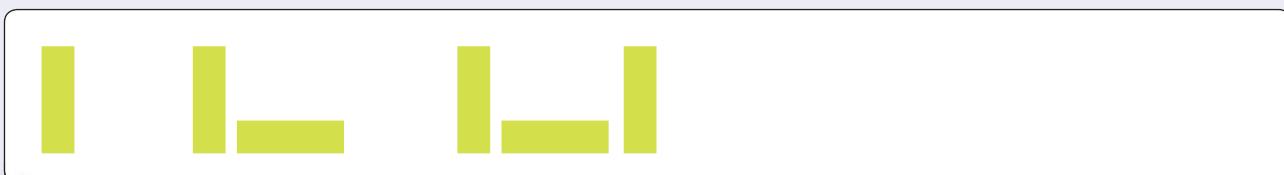




Tharamudzani phetheni.



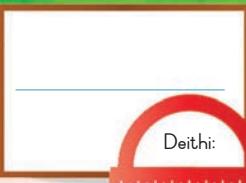
Olan i phetheni i no tevhela.



Olan i phetheni yanu inwi muñ.

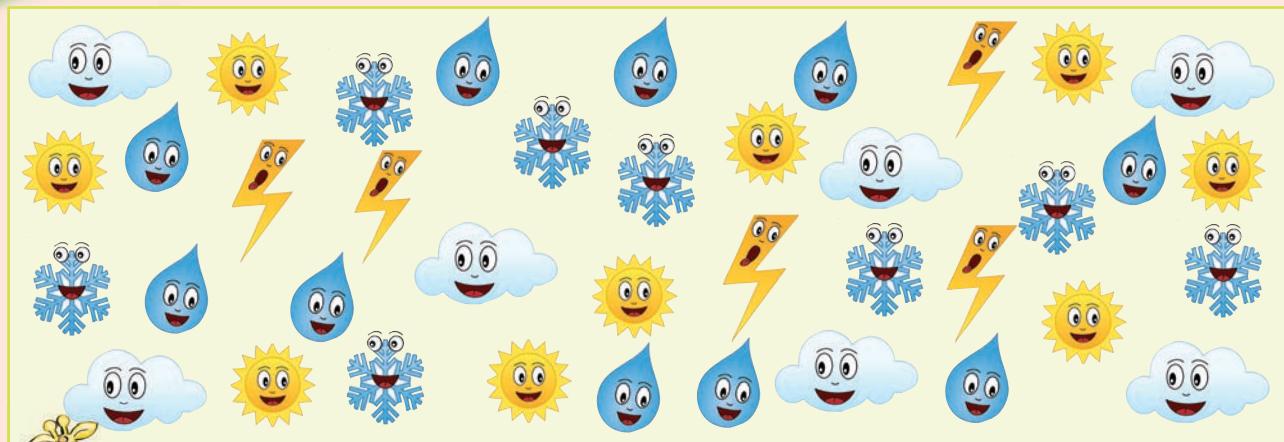


96

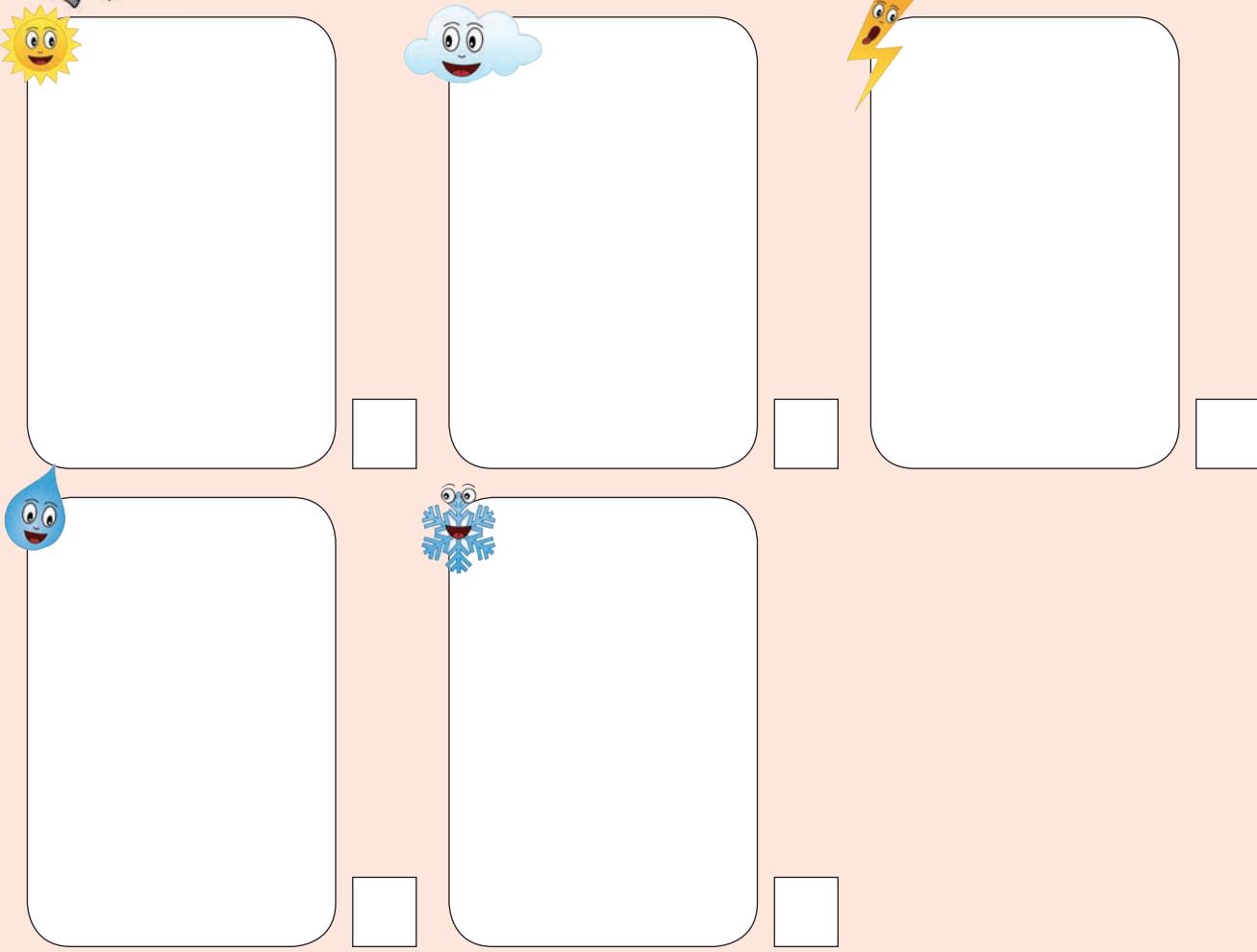


Themo ya 3

U vhekanya data

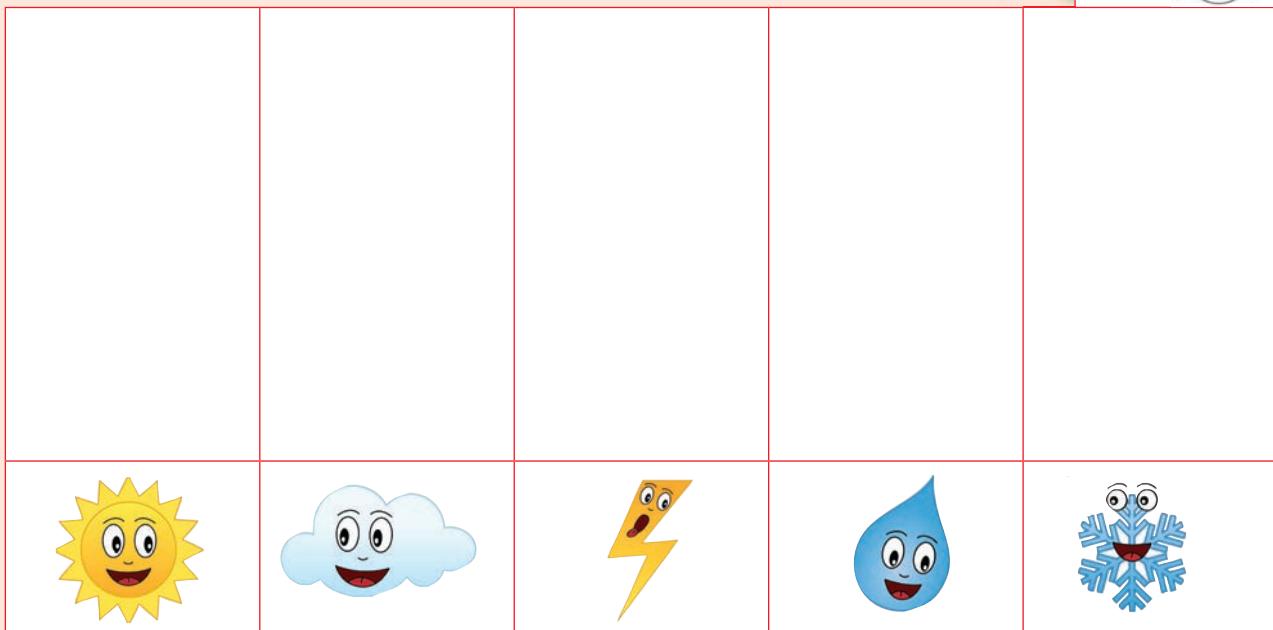


Nanguludzani zwithu zwa mutsho. Olani nyolo yanu ya u zwi sumbedza.
Nwalani thanganyelo tshibogisini.





KHII:



Sedzani zwithu zwa mutsho ni fhindule mbudziso.

Fhindulani mbudziso dici tevhelelaho.

Ro vha na mađuvha manzhi a masana kana manzhi a makole?

Ni vhonu u nga ndi khalañwaha ifhio?

Ngani?

Zwi ðo rali kha mavundu oþhe?



97

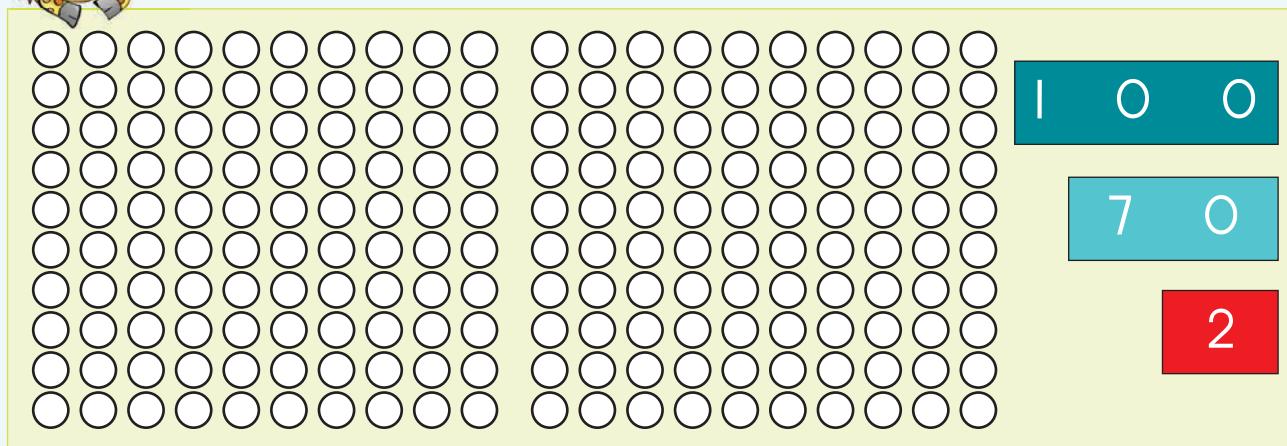


Nomboro 150 – 180



Khalarani zwitendeledzi zwa 172.

Deithi:



Nwalani f'hungombalo ja:

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 5 \ 0 \\ \hline 158 \end{array}$$

$$100 + 50 + 8 = 158$$



$$\begin{array}{r} 1 \ 0 \ 0 \\ + 5 \ 0 \\ \hline 158 \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 7 \ 0 \\ \hline 170 \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 5 \ 0 \\ \hline 150 \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 6 \ 0 \\ \hline 160 \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 7 \ 0 \\ \hline 170 \end{array}$$

=



Ndi nomboro dzifhio dici no da vhukati ha:

150 na 158

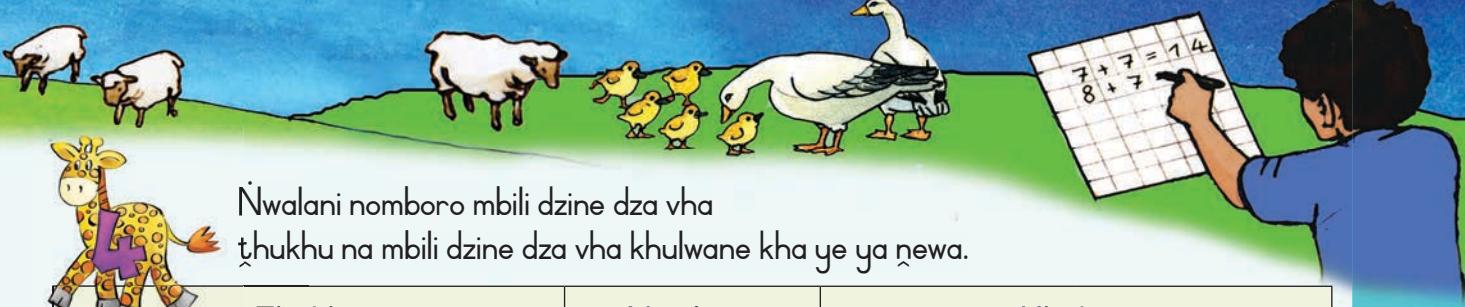
172 na 177

180 na 175

160 na 155

165 na 160

Themo ya 4



Nwalani nomboro mbili dzine dza vha
t̄hukhu na mbili dzine dza vha khulwane kha ye ya ñewa.

Thukhu	Nomboro	Khulwane
	157	
	165	
	178	
	161	
	174	



150 151 153 156 160

180 179 178

166 167 172 175 176



Gerani nomboro tharu dzi re vhukati ha 150 na 180 kha magazini kana gurannda.
Dzi nambatedzeni hafha dzi tshi tevhekana u bva kha khulwanesa u ya kha t̄hukhusa.



Teacher:
Sign:
Date:

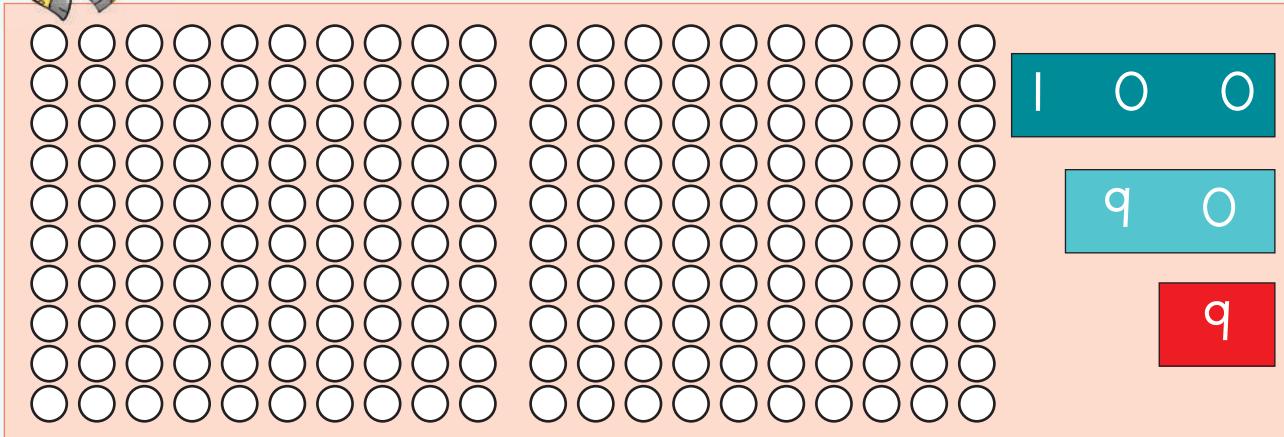
98



Nomboro 170 – 200

Khalarani zwitendeleledzi zwa 1qq.

Themo ya 4



Nwalani nomboro ya:

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 7 \ 0 \\ \hline 1 \ 7 \ 7 \end{array}$$

$$100 + 70 + 7 = 177$$

$$\begin{array}{r} 1 \ 0 \ 0 \\ + q \ 0 \\ \hline 1 \ q \ 0 \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 8 \ 0 \\ \hline 1 \ 8 \ 0 \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + q \ 0 \\ \hline 1 \ 5 \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + q \ 0 \\ \hline q \end{array}$$

=

$$\begin{array}{r} 1 \ 0 \ 0 \\ + 7 \ 0 \\ \hline q \end{array}$$

=



Ndi nomboro ifhio i no da vhukati ha:

170 na 175

198 na 195

180 na 175

168 na 173

200 na 196

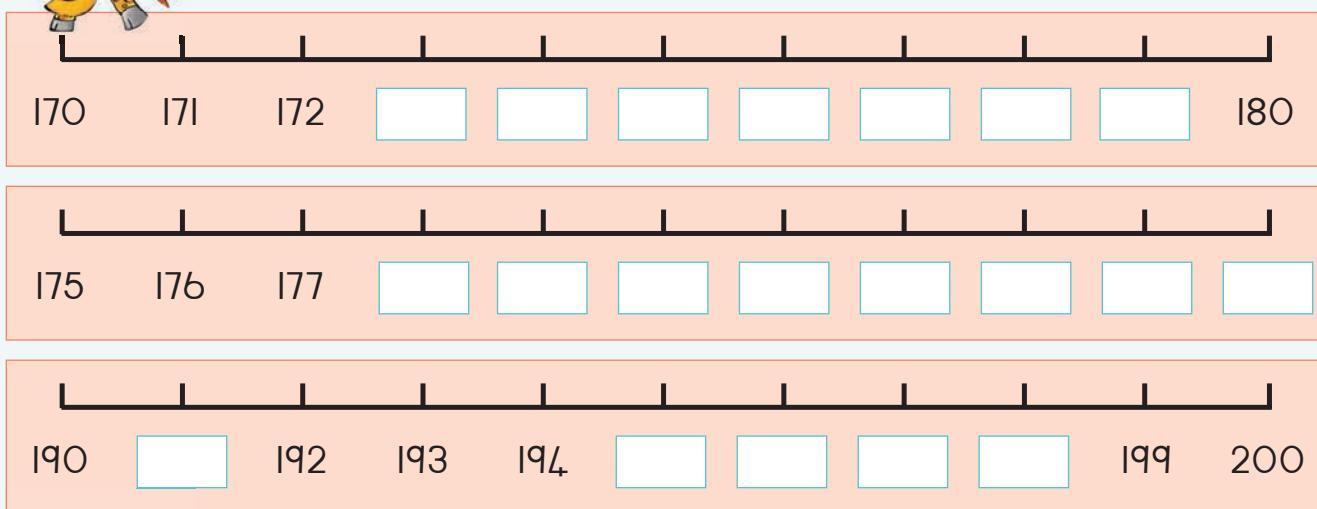


Nwalani nomboro mbili dzine dza vha
thukhu na mbili dzine dza vha khulwane kha ye ya newa.

Thukhu	Nomboro	Khulwane
	170	
	198	
	185	
	174	
	181	



Fhedzisani mitalombalo iyi.



Gerani nomboro tharu dzi re vhukati ha 170 na 200 kha magazini kana gurannda.
Dzi nambatedzeni hafha dzi tshi tevhekana u bva kha khulwanesa u ya kha thukhusa.



Teacher:

Sign:

Date:

qq

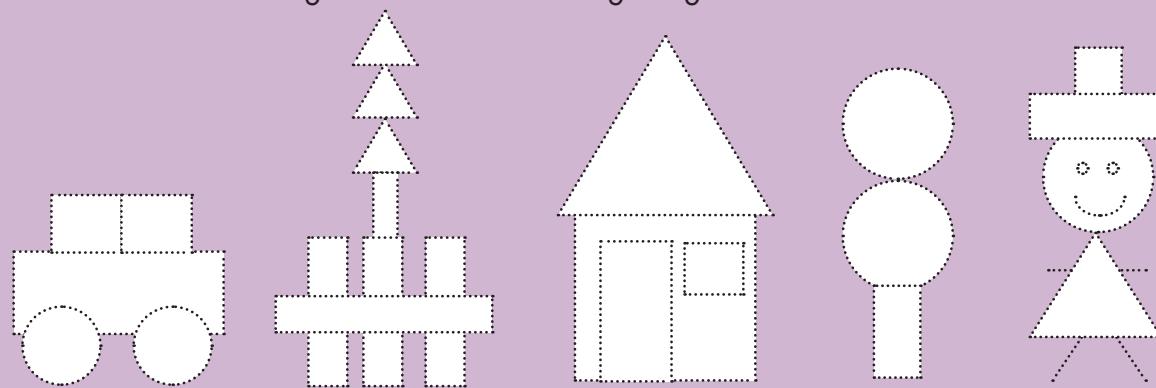


Zwivhumbeo zwa 2-D

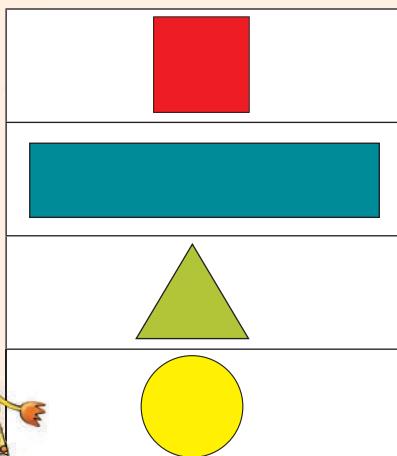
Deithi:

Themo ya 4

Tevhedzelani zwivhumbeo zwot̄he. Khałarani zwitendeledzi nga muvhala mutswuku, thiraiengèle nga muvhala mudala, zwikwea nga wa t̄ada na rekithiengèle nga wa lutombo.



Livhanyani ipfi na tshivhumbeo.



thiraiengèle

tshitendeledzi

tshikwea

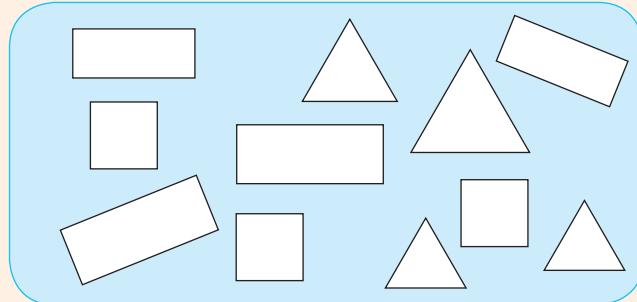
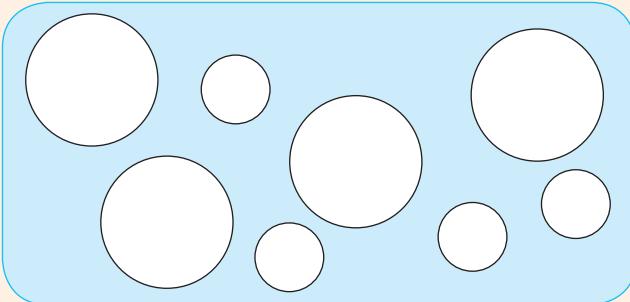
rekithiengèle

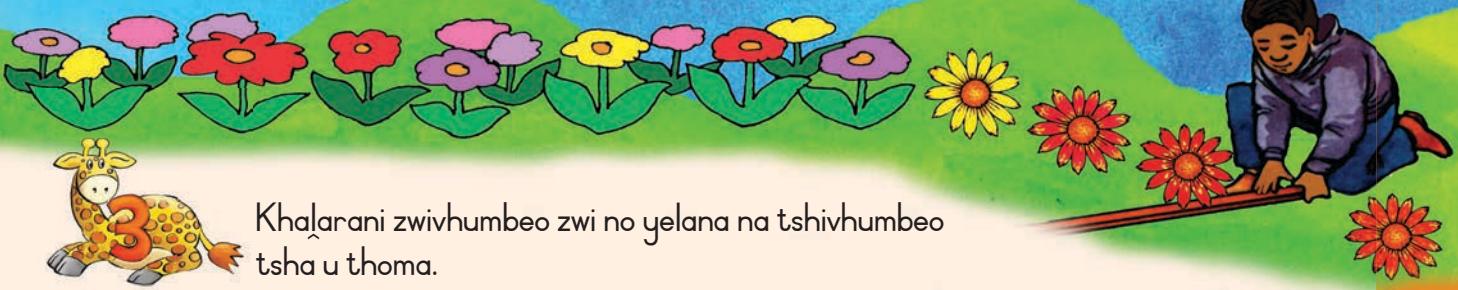
Khałarani:

- Zwitendeledzi zwiħulwane nga muvhala mutswuku
- Zwitendeledzi zwiżuku nga muvhala wa t̄ada

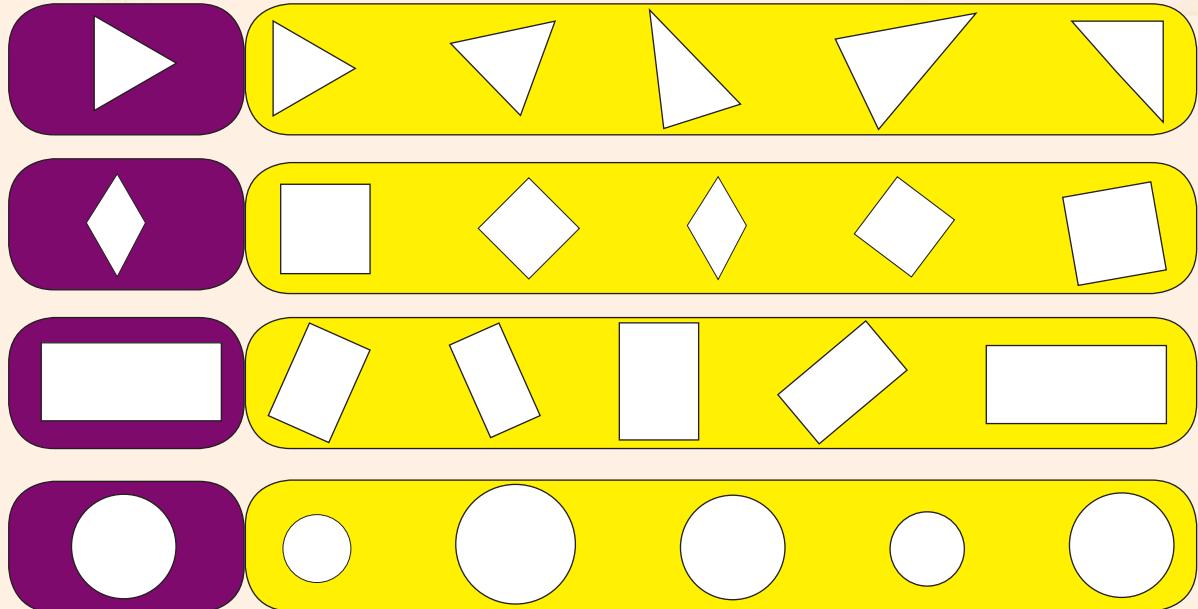
Khałarani:

- Rekithiengèle khulwane nga muvhala mutswuku
- Rekithiengèle tħukku nga muvhala wa t̄ada





Khalaran i zwivhumbeo zwi no yelana na tshivhumbeo
tsha u thoma.



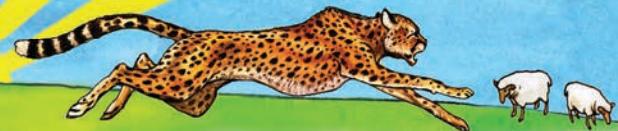
Olani tshifanyiso tsha inwi mune ni tshi shumisa zwikwea, rekithiengele,
thiraiengele na zwitendeledzi.

Kha bammbiri la kale, gerani zwikwea, rekithiengele, zwitendeledzi na thiraiengele kha bammbiri la
kale ni ite tshifanyiso tshanu ngazwo.



Teacher:
Sign:
Date:

100



Nomboro 0 – 200

Deithi:

Themo ya 4

Ndi nomboro nngana dzo fhambananaho dzine na nga vhumba.

1 0 0

4 0

2

q

5 0

1 0 0

1 0 0

2 0

1

7 0

8



Fhedzisani zwi tevhelaho.

1 0 0

4 0

1 0 0

7 0

1 0 0

2 0

100 + 40 + q =

100 + 70 + 3 =

100 + 20 + 8 =

1 0 0

1 0

1 0 0

9 0

100 + 10 + 7 =

100 + 90 + 2 =



Dadzani zwibogisi zwi si na tshithu ni tshi shumisa madana, mahumi na dzyuniti u itela u f'hedzisa mbalo.

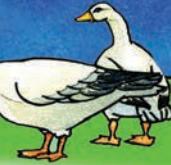
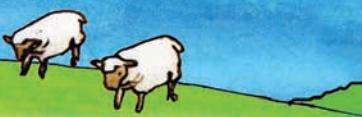
$$181 = \boxed{} + \boxed{} + \boxed{}$$

$$144 = \boxed{} + \boxed{} + \boxed{}$$

$$135 = \boxed{} + \boxed{} + \boxed{}$$

$$156 = \boxed{} + \boxed{} + \boxed{}$$

$$169 = \boxed{} + \boxed{} + \boxed{}$$



Tanganyani zwi tevhelaho.

$60 + 4 = \boxed{}$

$100 + 20 + 3 = \boxed{}$

$90 + 8 = \boxed{}$

$100 + 40 + 9 = \boxed{}$

$40 + 7 = \boxed{}$

$100 + 70 + 8 = \boxed{}$

$30 + 6 = \boxed{}$

$100 + 60 + 1 = \boxed{}$

$50 + 2 = \boxed{}$

$100 + 50 + 5 = \boxed{}$

Dzhenisani nomboro dzo t̄ahelaho.

$70 + \boxed{} = 71$

$100 + \boxed{} + 3 = 153$

$30 + \boxed{} = 38$

$100 + \boxed{} + 9 = 169$

$60 + \boxed{} = 69$

$\boxed{} + 70 + 8 = 178$

$20 + \boxed{} = 24$

$100 + \boxed{} + 1 = 191$

$80 + \boxed{} = 85$

$100 + 50 + \boxed{} = 157$



Itani t̄hanganyelo dzanu inwi muñe ni tshi shumisa madana, mahumi na dzyuniti.

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

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



Ndi nomboro ifhio i re khulwanesa? (K) Ndi nomboro ifhio i re t̄hukhusa? (T)

5	0	9
1	0	0

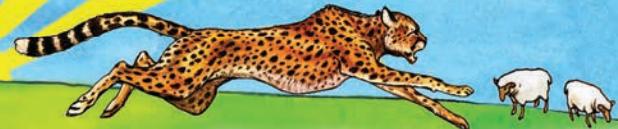
1	0	0
9	4	0

4	1	0	0
5	0		



Teacher: _____
 Sign: _____
 Date: _____

101

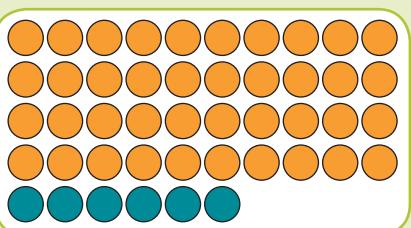
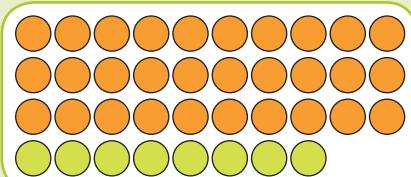


Themo ya 4

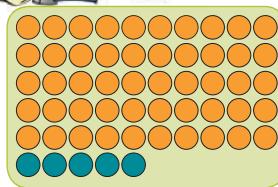


Lavhelesani bodo ya nomboro na malungu. Ambani ngazwo.

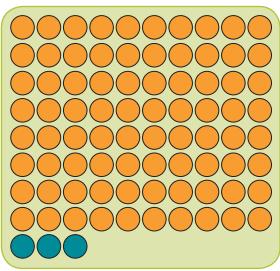
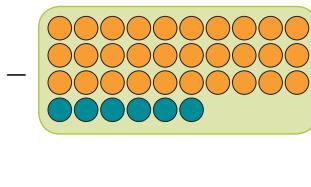
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



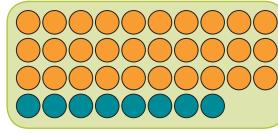
Tanganyani kana ni ḫuse malungu.



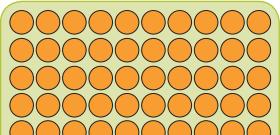
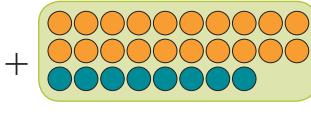
$$\begin{array}{r}
 50 \quad 5 \quad - \quad 30 \quad 6 \\
 = 40 + 15 - 30 - 6 \\
 = 10 + 9 \\
 = 19
 \end{array}$$



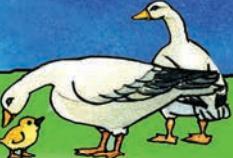
$$\begin{array}{r}
 \boxed{} \quad \boxed{} \quad - \quad \boxed{} \quad \boxed{} \\
 = \boxed{} + \boxed{} - \boxed{} - \boxed{} \\
 = \boxed{} + \boxed{} \\
 = \boxed{}
 \end{array}$$



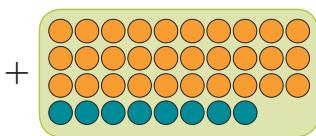
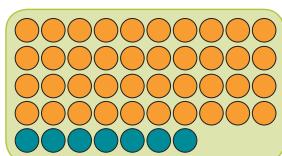
$$\begin{array}{r}
 \boxed{} \quad \boxed{} + \boxed{} \quad \boxed{} \\
 = \boxed{} + \boxed{} + \boxed{} \\
 = \boxed{} + \boxed{} + \boxed{} + \boxed{} \\
 = \boxed{} + \boxed{} \\
 = \boxed{}
 \end{array}$$



$$\begin{array}{r}
 \boxed{} \quad \boxed{} + \boxed{} \quad \boxed{} \\
 = \boxed{} + \boxed{} + \boxed{} \\
 = \boxed{} + \boxed{} \\
 = \boxed{}
 \end{array}$$

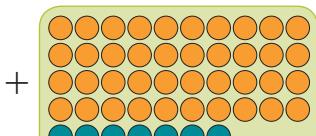
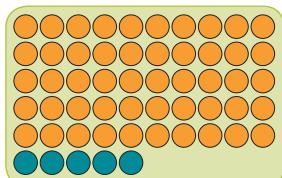


Anganyani ni rekanye.



Anganyani

Rekanyani



Anganyani

Rekanyani



Shumani mbalo ni tshi shumisa ndila yanu.

$53 + 39$

$92 - 48$

Tanganyani 39 na 29.

43 na 19 dzi ita mini?

45 yo ḫuswa kha 74 i vha mini.

82 ho ḫuswa 69 i vha mini?





Mutanganyo na mutuso haf hu



Lavhelesani abakhasi i re kha tsha monde na tsha u la. Ni vhona mini?

2 0

8

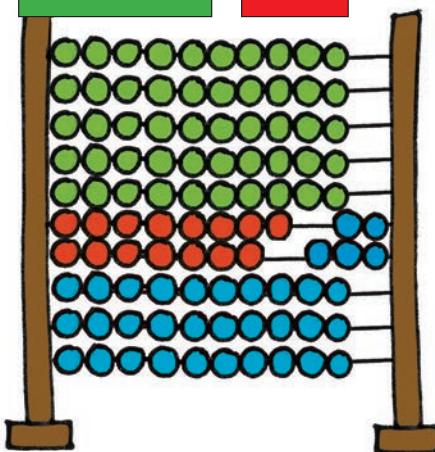
3 0

7

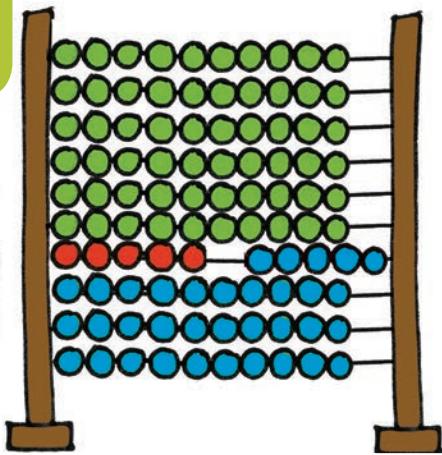
Tanganyani
nomboro idzo mbili.

6 0

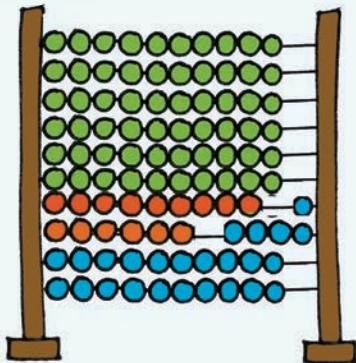
5



I lingana
na.

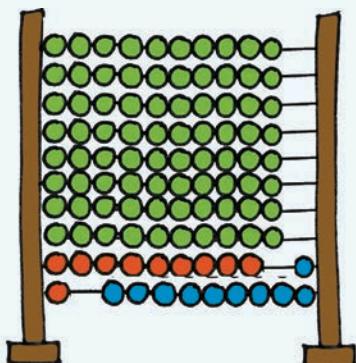


Nwalani mbalo ya u tanganya na u tusa. I rekanyeni.



Mbalo ya mutanganyo

Mbalo ya mutuso

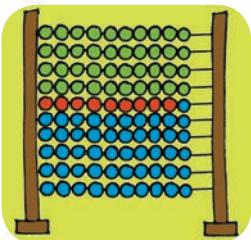


Mbalo ya mutanganyo

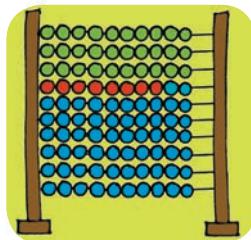
Mbalo ya mutuso



Anganyani ni rekanye.

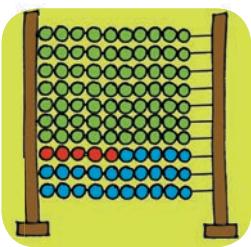


+

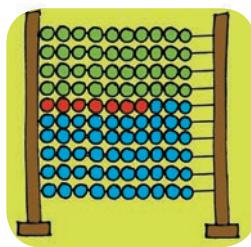


Anganyani

Rekanyani



-



Anganyani

Rekanyani



Rekanyani ni tshi shumisa ndila yanu.

$58 + 35$

$34 - 26$

74 na 19 dzi ita mini?

Bvisani 34 kha 72.



103

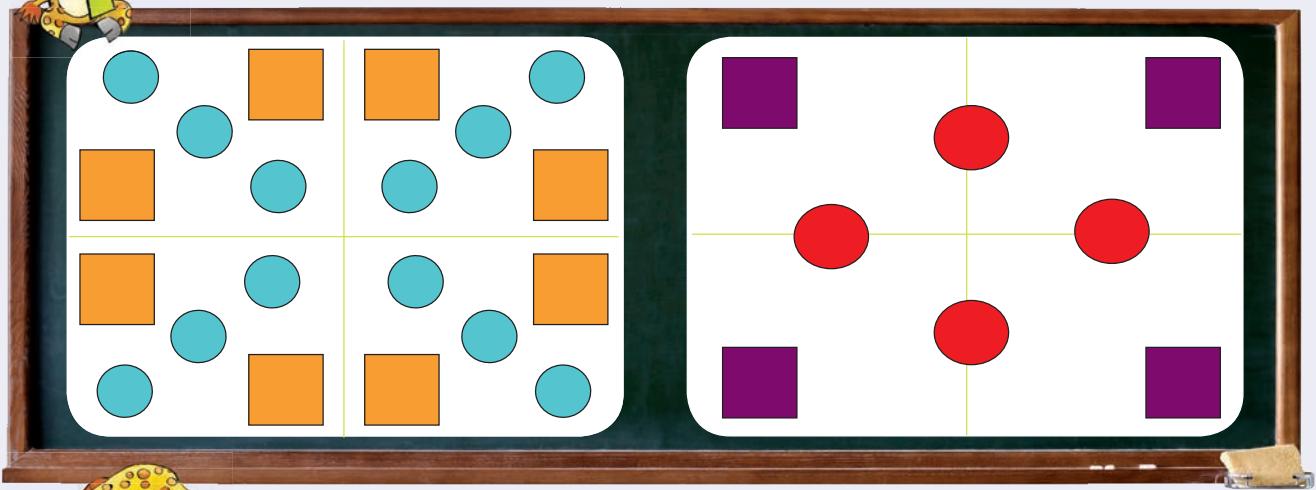


Deithi:

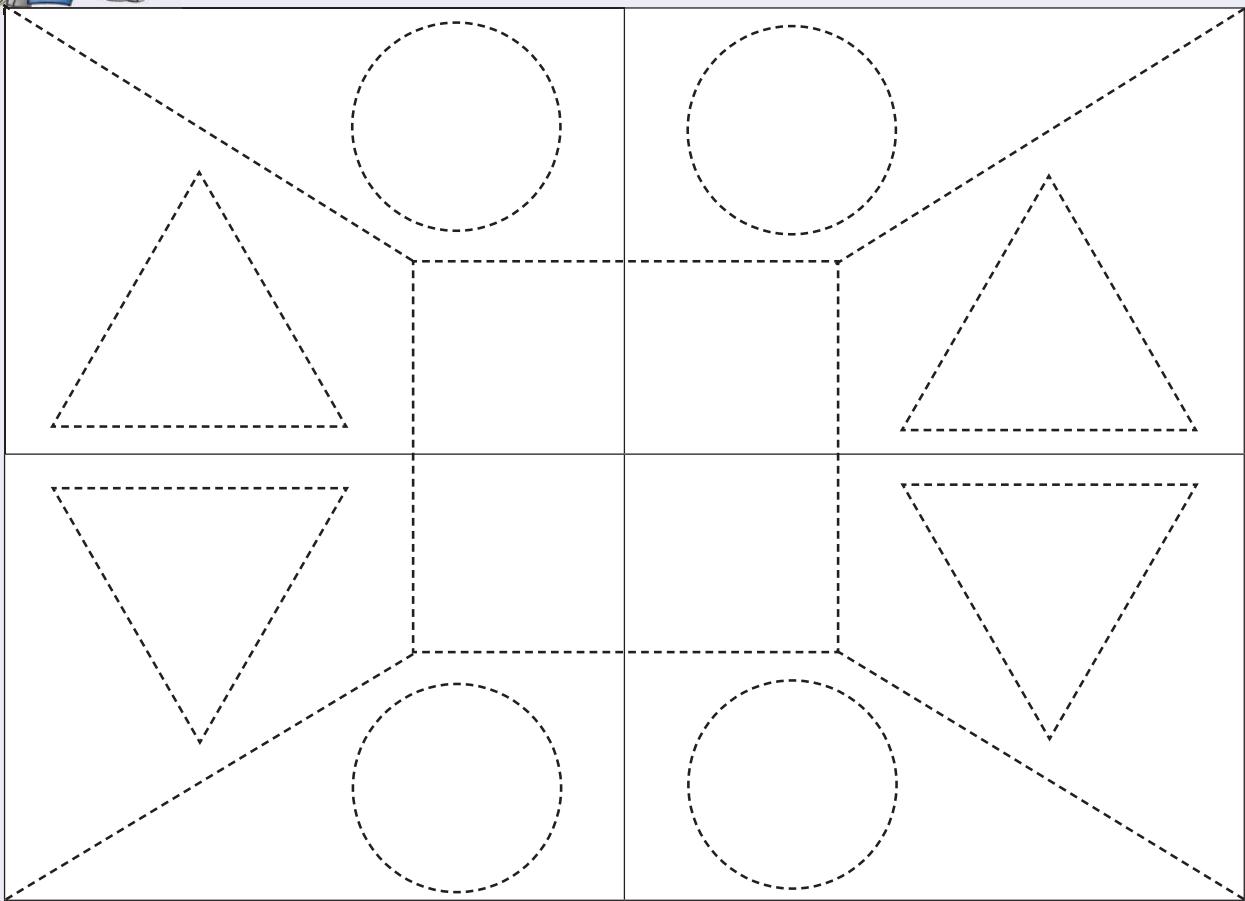
Themo ya 4



Talutshedzani phetheni.

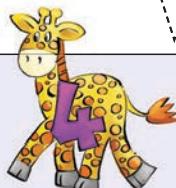
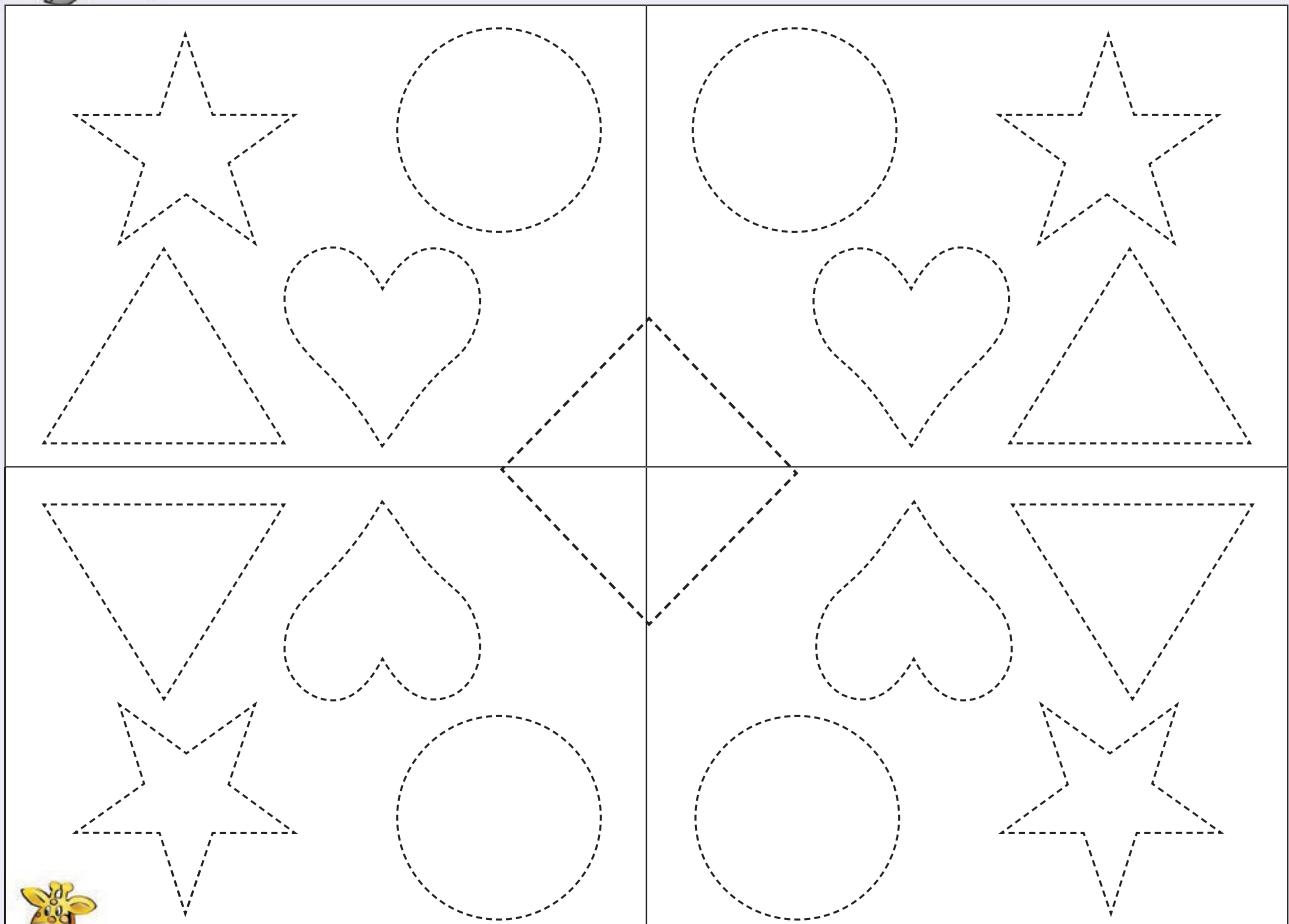


Tevhedzelani phetheni ni i khalare.





Tevhedzelani phetheni ni i khalare.



Itani phetheni yanu inwi muñe ni tshi shumisa zwivhumbeo.

A large empty rectangular box for drawing or writing.



Teacher: _____
Sign: _____
Date: _____

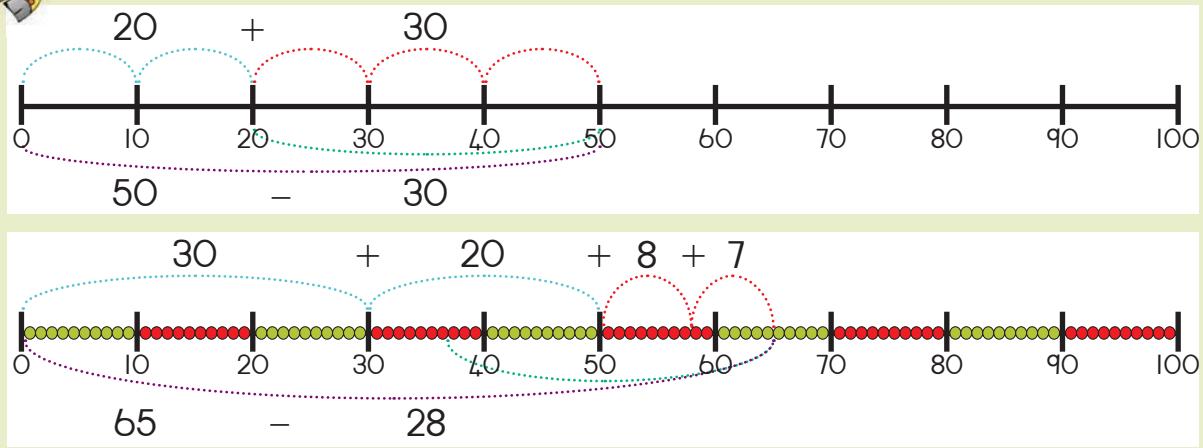


Mut^{ang}anyo na Mut^{uso}

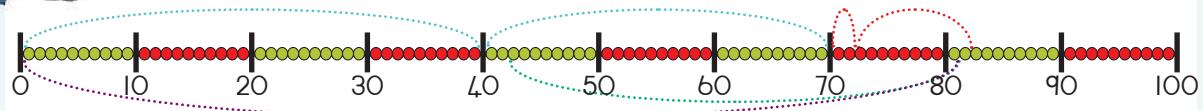
Themo ya 4



Lavhelesani mitalombalo. Ambani ngayo.

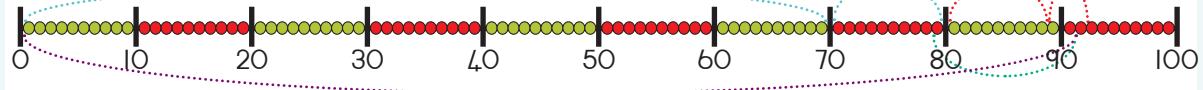


Nwalani mbalo ya mut^{ang}anyo na mut^{uso} ni tshi shumisa matalombalo.



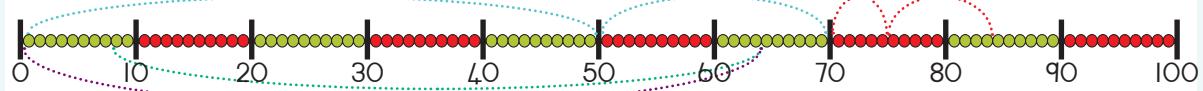
Mbalo ya mut^{ang}anyo:

Mbalo ya mut^{uso}:



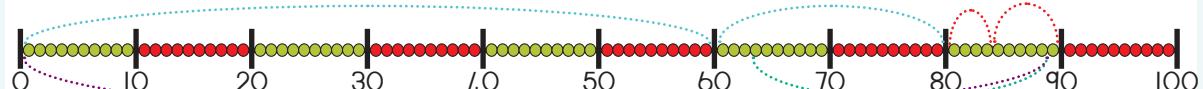
Mbalo ya mut^{ang}anyo:

Mbalo ya mut^{uso}:



Mbalo ya mut^{ang}anyo:

Mbalo ya mut^{uso}:

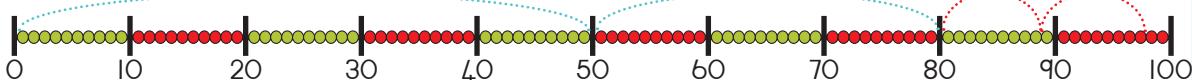


Mbalo ya mut^{ang}anyo:

Mbalo ya mut^{uso}:

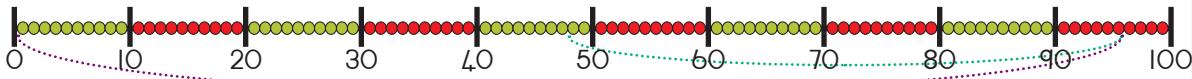


Anganyani ni rekanye tshivhalo tsha malungu.



Anganyani: _____

Rekanyani: _____



Anganyani: _____

Rekanyani: _____



Rekanyani ni tshi shumisa ndila yanu.

$74 + 18$

$72 - 43$

82 na 9 dzi ita mini?

Bvisani 44 kha 52.



Teacher: _____
Sign: _____
Date: _____

105



Deithi:

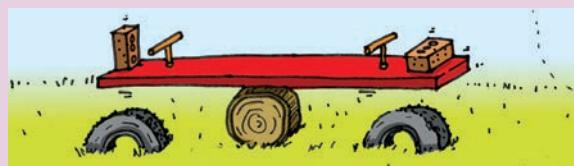
Themo ya 4



Linganyisani masia.

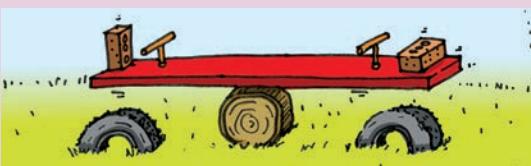
$10 + 4 + 5$

$9 + \boxed{} + \boxed{}$



$90 - 50$

$\boxed{} - 20$



Fhedzisani zwi tevhelaho.

ho ingwa nga 1	
6	7
5	
3	
9	
2	
7	
4	
8	

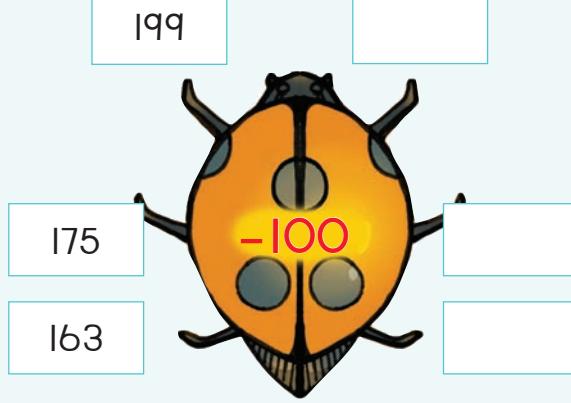
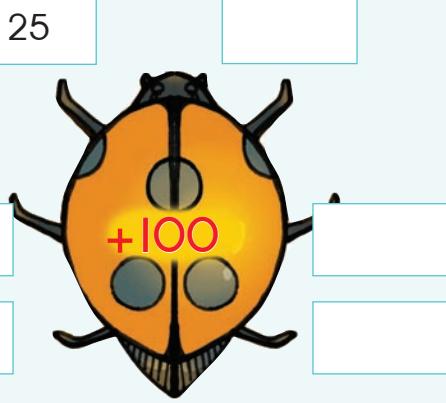
ho fhungudzwa nga 1	
4	3
8	
10	
9	
2	
7	
6	
3	

ho ingwa nga 10	
40	50
10	
60	
70	
20	
80	
30	
100	

ho fhungudzwa nga 10	
40	30
150	
20	
110	
200	
60	
180	
70	



Tharamudzani phetheni.





Itani mbalo dza 5 ni tshi shumisa nomboro idzi na zwiga izwi. Ni nga kha di shumisa nomboro nthihi luvhili.

5

9 0

-

2 0

+

3 0

1 0 0

4

3



Lavhelesani nomboro ni ite mbalo nnzhi dzo waniwaho nga mu \ddot{t} anganyo na mu \ddot{t} uso dzine phindulo yadzo ya vha yo \dot{n} walwa kha bodo, tsumbo: $3 + 4 = 7$.



Mu \ddot{t} anganyo ndi mini?

2 6 5 7
8
4 7 3 q



Mu \ddot{t} uso ndi mini?

4 7 5 10
6 2 8 3



Rekanyani zwi tevhelaho ni tshi shumisa \dot{n} dila yanu. Sumbedzani mirekanyo yothé.

$48 + 36$

$85 - 59$



Tandululani mbalo ya maipfi. Olani tshifanyiso ni tshi sumbedza phindulo yanu.

Ndo vhulunga R42 nahone khotsi anga vha mpha R29. Ndi na vhugai?

Ndi na R78 nahone ndo renga tshi \ddot{t} eshenari tsha R34. Ndo salelwa nga vhugai?



Teacher:
Sign:
Date:

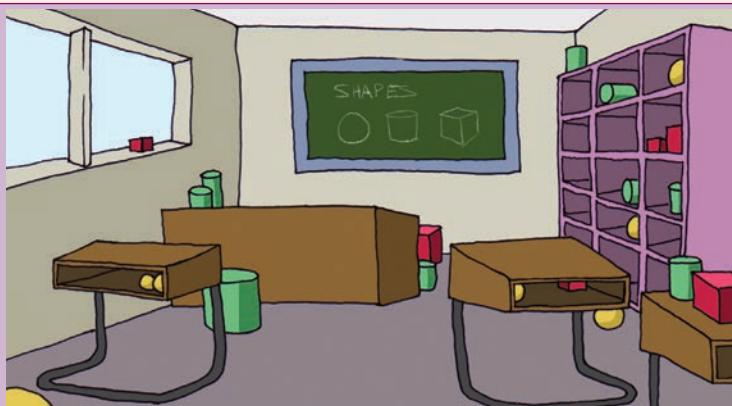


Zwithu zwa 3-D

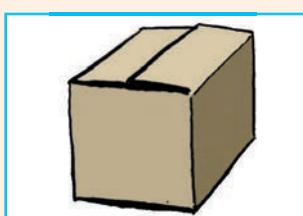
Deithi:

Themo ya 4

Mabogisi, bola na silinda
zwi ngafhi?



Ambani uri ndi bogisi, bola kana silinda naa.

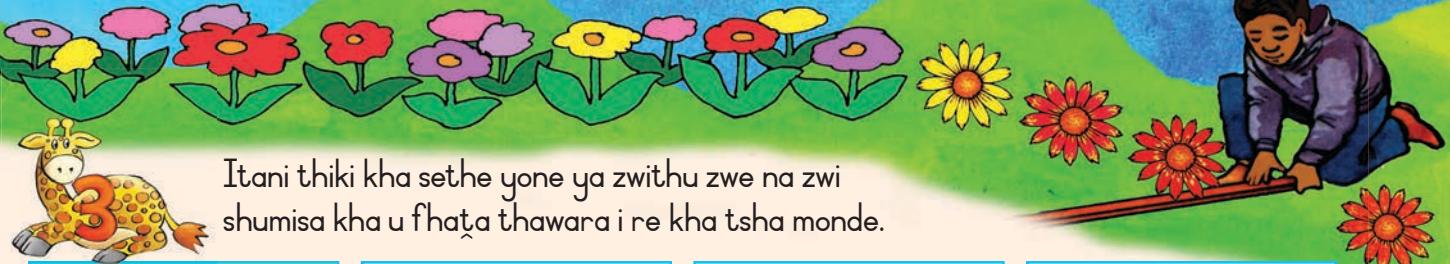


Wanani zwifanyiso zwa zwithu zwi tehelaho ni zwi nambatedze hafha.

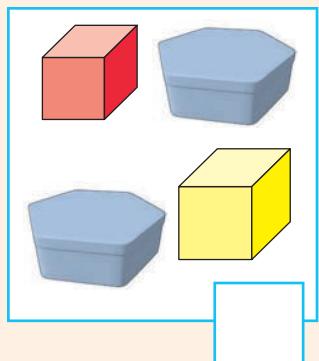
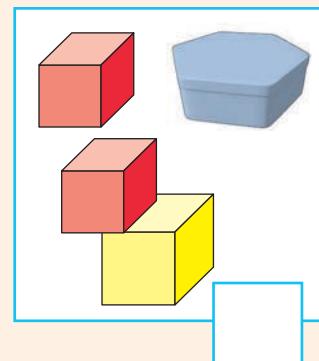
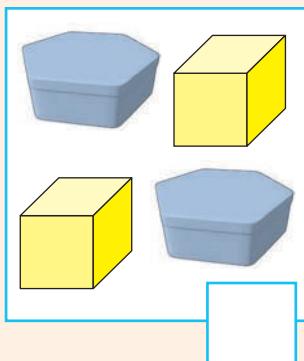
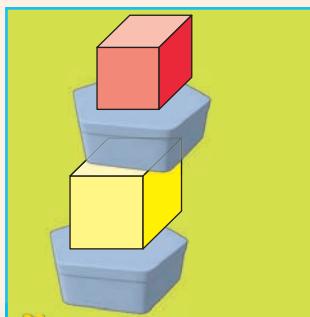
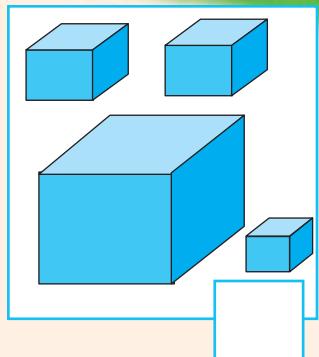
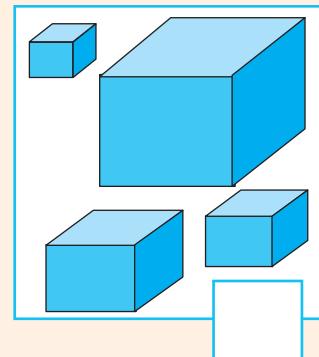
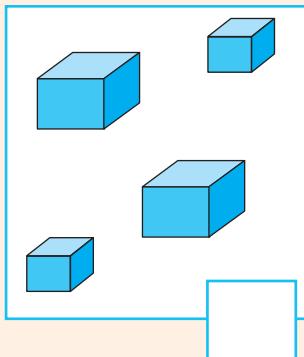
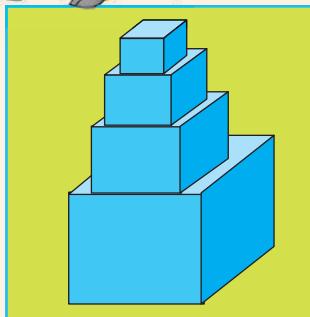
Bola

Bogisi

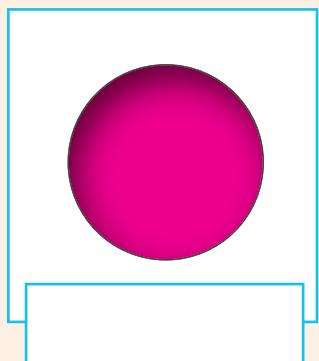
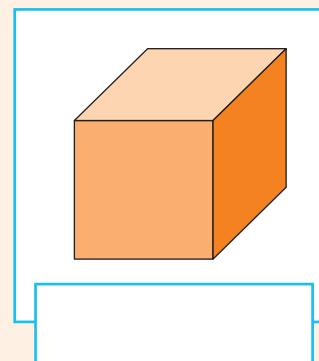
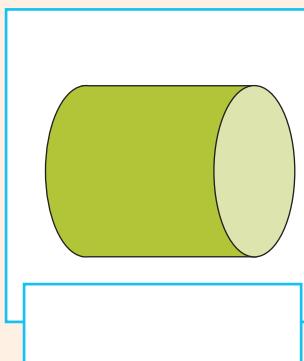
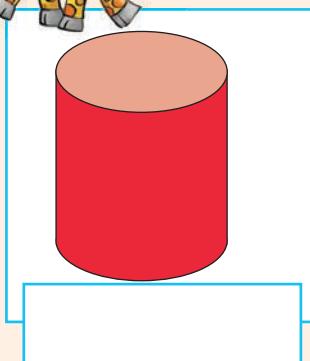
Silinda



Itani thiki kha sethe yone ya zwithu zwe na zwi
shumisa kha u fhaṭa thawara i re kha tsha monde.



Bulani uri zwi tevhelaho zwi ḫo kunguluwa naa kana u swenda.

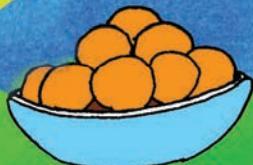


Afho mudini wa hanu kana huñwewho hu na zwithu zwi no nja:

- Silinda
- Bola
- Mabogisi

<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

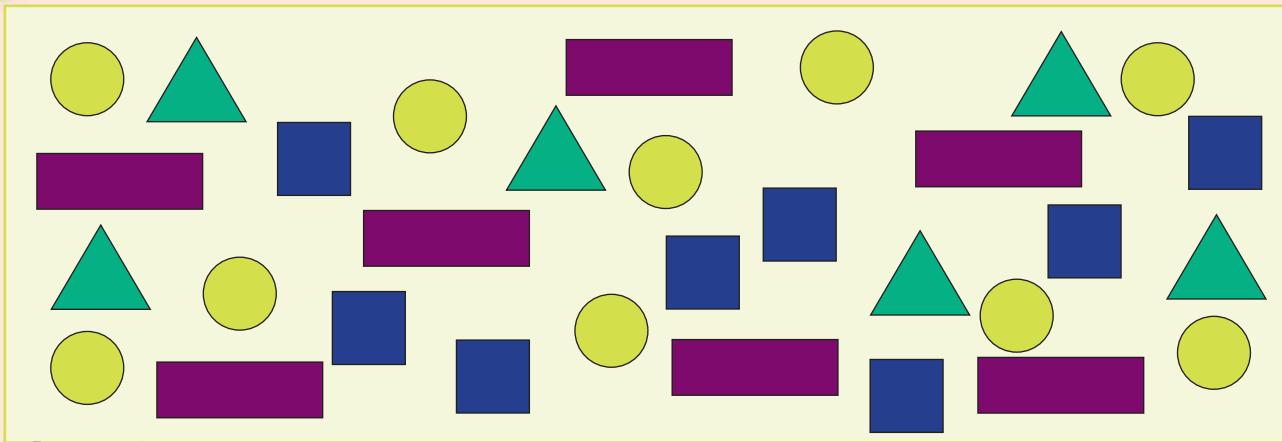




Data hafuhafhu

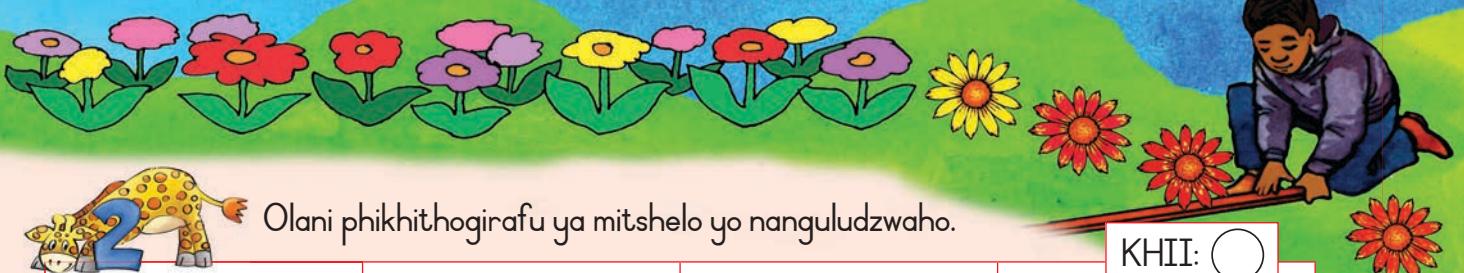
Deithi:

Themo ya 4



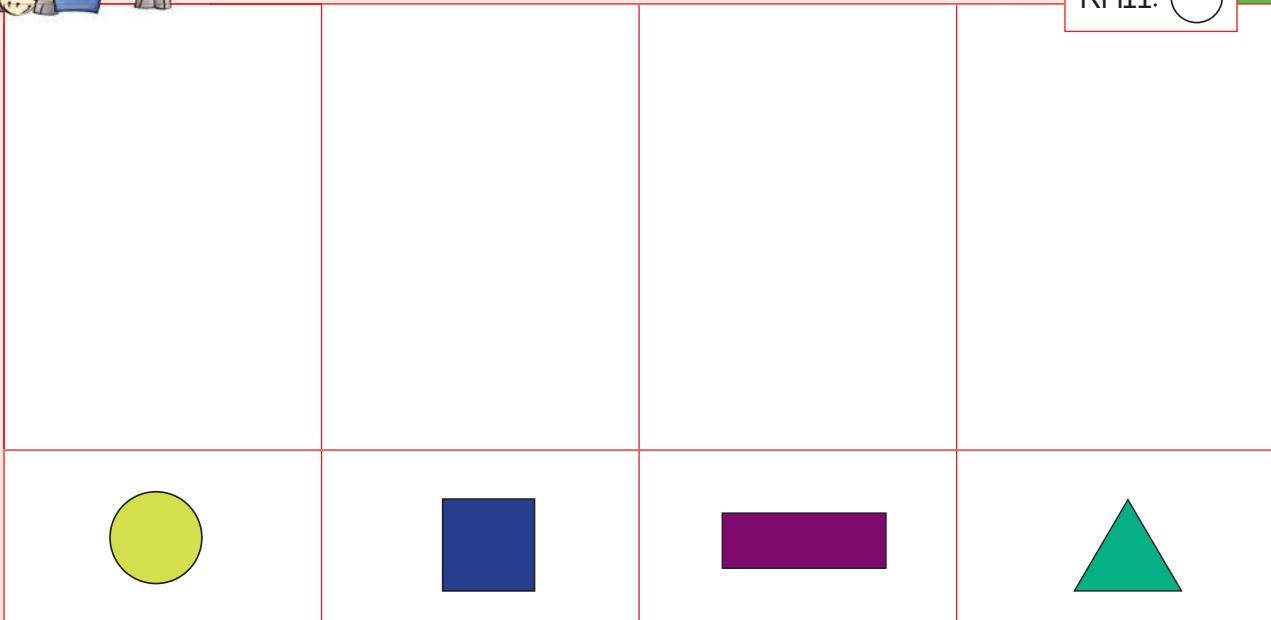
Nanguldzani zwivhumbeo. Olani nyolo yanu ya u zwi sumbedza.
Nwalani thanganyelo tshibogisini.

<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									
<input type="checkbox"/>									

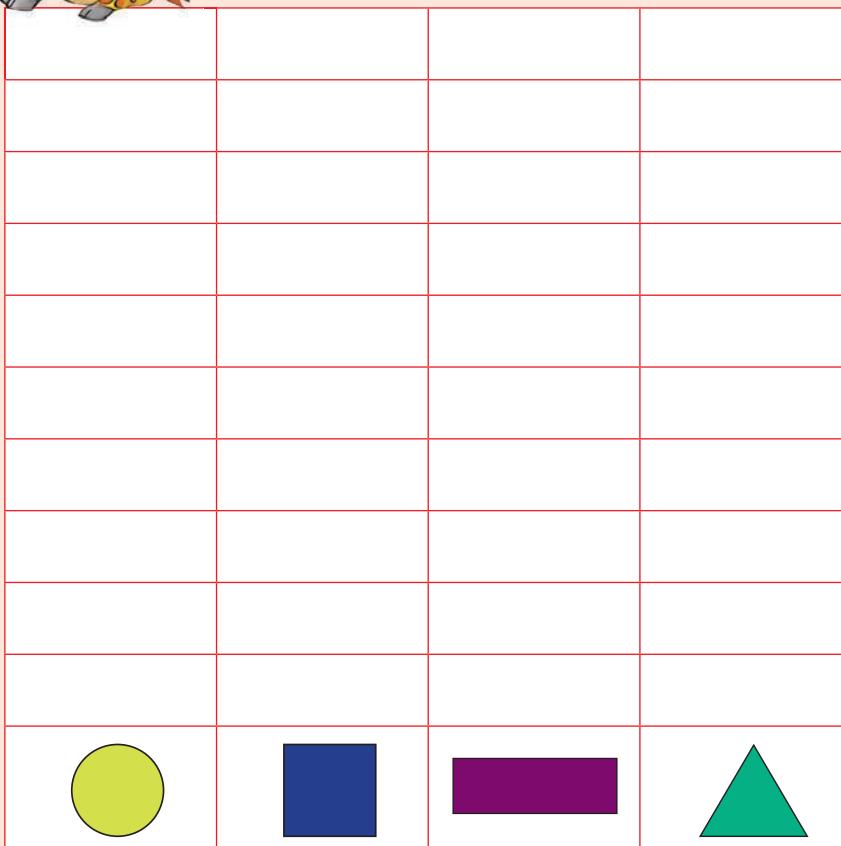


Olani phikhithogirafu ya mitshelo yo nanguludzwaho.

KHII:



Khalarani zwibuloko ni tshi fhedzisa girafubaphathi yanu



Hu na zwitendeledzi zwingana?

Hu na zwikwea zwingana?

Hu na rekithiengele
nngana?

Hu na thiraiengеле
nngana?



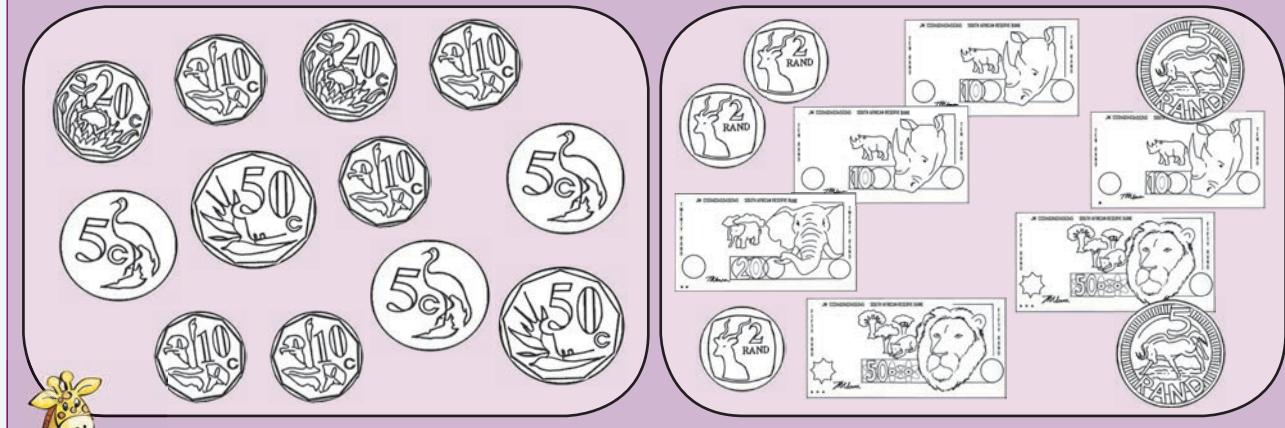


Urekanga tshelede

Themo ya 4

Khalaranini khoini dzine dza do ita 95c.

Khalaranini tshelede ya mabammbiri ine ya do ita R99.



Khalaranini khoini dzi no do ni fha? Uyu ndi wone muvango u wothe?

	Ee	Hai				
75c						
85c						
90c						

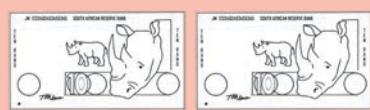


Khalaranini dzikhoini na dzinoutu dzine dza do ni fha zwi tevhelaho:
Uyu ndi wone muvango u wothe?

	Ee	Hai
R87	 	
R75	 	
R94	 	



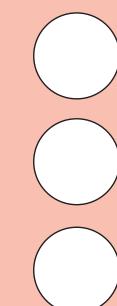
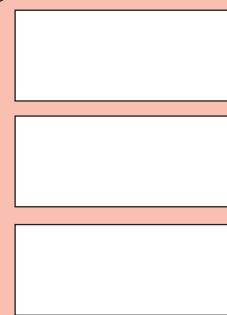
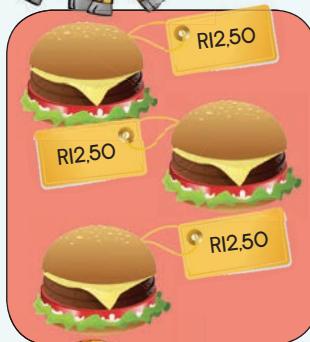
Sipho o renga hammbega mbili. Hammbega nthihi ndi RI2.50.
O badela vhugai? Olani tshelede ya mabammbiri na khoini dzone
ni tshi sumbedza phindulo yanu. Ni dovhe ni i rwale sa fhungombalo.



Fhungombalo:
RI2,50 + RI2,50 =



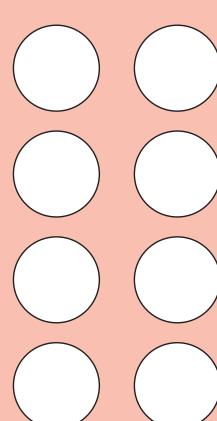
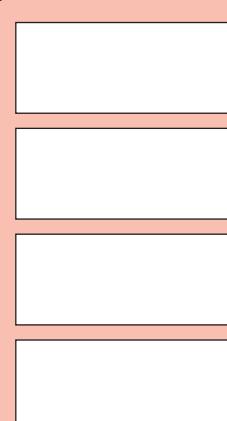
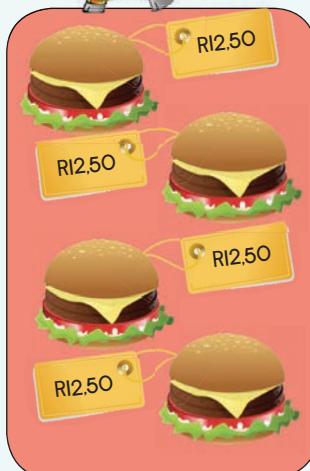
Arali Sipho a nga renga hammbega idzi?



Fhungombalo:



Arali Sipho a nga renga hammbega nna?



Fhungombalo:



Sipho a nga kona u renga bega nngana nga R87, 50? Itani nyolo dzi
no fana na dzi re af ho nthia uri dzi ni thuse u tandulula mbalo (thaidzo).
Shumisani bammbiri la dubo.



Teacher:
Sign:
Date:



Tandululani mbalo dza tshelede

Themo ya 4

Ndi nga wana vhugai arali nda na rengisa tshokoleithi dza IO? Lavhesani zwifanyiso ni ise phanda na phetheni.

Tshokoleithi ya 1



Tshokoleithi dza 2



Tshokoleithi dza 3



Tshokoleithi dza 4



Shumanu u rengisa hothidogo nga R4 nthihi. Fhedzisani thebulu ni tshi mu thusa u wana mutengo wa oda khulwane.

Tshivhalo tsha hothidogo	1	2	3	4	5	6	7	8	9	10
Khoini										
Mutengo (mbadelo) nga rannda	R4									



Arali Shumanu a nga rengisa hothidogo iñwe na iñwe nga R5?

Tshivhalo tsha hothidogo	1	2	3	4	5	6	7	8	9	10
Khoini										
Mutengo (mbadelo) nga rannda	R5									



Sello u lela vhana. U badelisa R5 nga awara. Fhedzisani thebulu iyi.

Tshivhalo tsha awara	1	2	3	4	5	6	7	8	9	10
Mutengo nga rannda										



Sello u humbula u inga kavhili mutengo wa awara.
Zwi sumbedzeni kha thebulu.

Tshivhalo tsha awara	1	2	3	4	5	6	7	8	9	10
Mutengo nga rannda	10	20								



Olan i tshifanyiso tshi no sumbedza uri Sello u badelisa vhugai arali o shuma mishumo ya 8 ya u lela vhana.



Ni khou todou renga mafini dza 10. Irwe na irwe i dura R10.
Ni do badela vhugai ni tshi renga mafini dza 1, 2, 3, 4, 5, 6, 7, 8, 9 kana 10?
Zwi sumbedzeni kha thebulu kha bammbiri la dabo.



Teacher: _____
Sign: _____
Date: _____

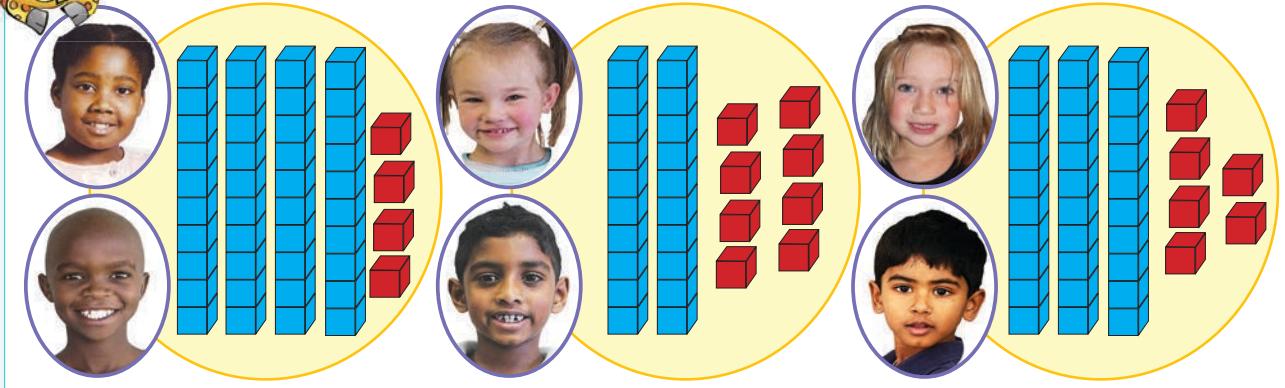
110



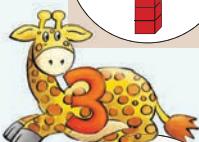
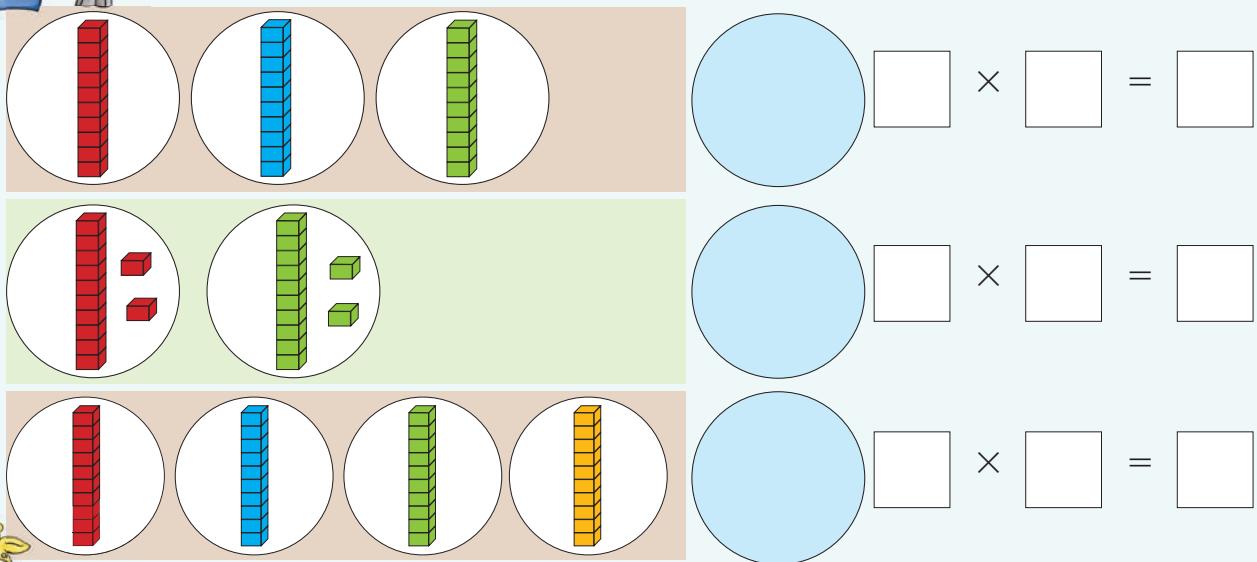
Uita zwigwada na u kovhana

Hu na zwibuloko zwingana kha tshitendeledzi tshinwe na tshinwe? Zwi kovheni vhukati ha vhana.

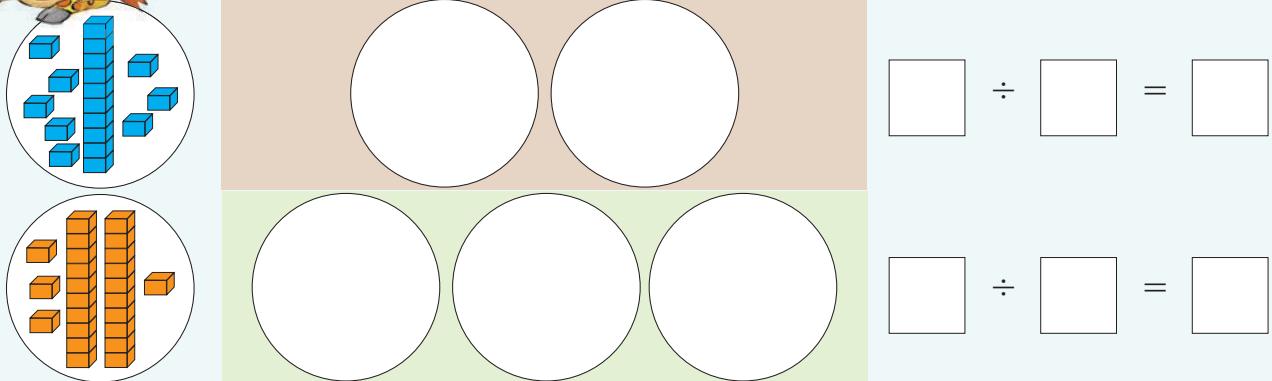
Themo ya 4

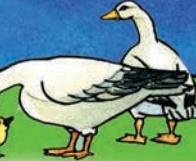
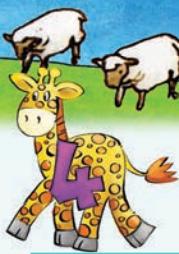


Ndi zwibuloko zwingana zwi re kha tshitendeledzi tshinwe na tshinwe? Nwalani thanganyelo i re kha tshitendeledzi tsha lutombo.



Kovhani zwibuloko kha zwitengeledzi.





Olani zwi tevhelaho. Nwalani mbalo ya tshiñwe na tshiñwe.

zwigwada zwa 3 zwa 2



Mbalo ya u ṭanganyisa:



Mbalo ya u andisa:

Kovhani zwivhaleli zwa 12 kha vha 4.



Mbalo ya u ṭusa:



Mbalo ya u kovha:

zwigwada zwa 4 zwa 10



Mbalo ya u ṭanganyisa:



Mbalo ya u andisa:

Kovhani zwivhaleli zwa 12 kha vha 3



Mbalo ya u ṭusa:



Mbalo ya u kovha:



Vhalelani.

zwigwada zwa 2 zwa 7 _____

zwigwada zwa 3 zwa 8 _____

zwigwada zwa 4 zwa 5 _____

zwigwada zwa 2 zwa 15 _____

Kovhani 18 nga 2 _____

Kovhani 24 nga 3 _____

Kovhani 35 nga 5 _____

Kovhani 50 nga 10 _____



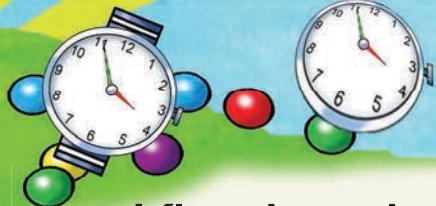
davnulu Kovhani



Teacher:

Sign:

Date:

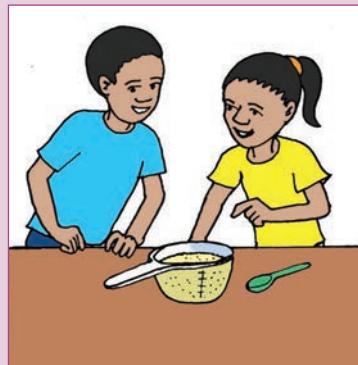


Khaphasithi dziñwe hafhu

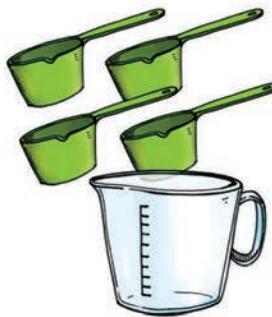
Deithi:

Lavhelesani zwifanyiso. Vhana vha khou ita mini?

Themo ya 4



Lebula dici do dadza dzhege u swika ngafhi? Khalbarni.



Hu dici itea mini arali na nga shela khaphu dza 6 dza dzhege ya u ela.



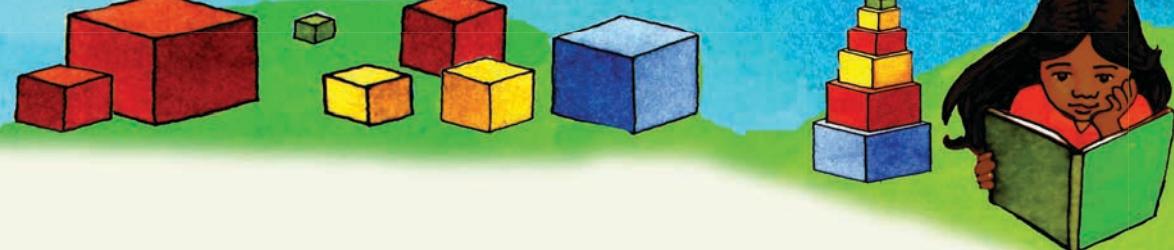
Ni nga dadza nga khaphu nngana dza mad?

dzhege dza 2 _____

dzhege dza 3 _____

dzhege dza 4 _____

dzhege dza 5 _____



Ndi lebula nngana haf hu dzine na do ṭoda uri ni dadze khaphu ya u ela?

2



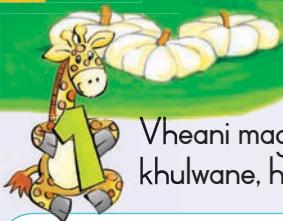
Wanani tshifanyiso tsha zwifaredzi zwi no lingana litha ya 1, litha dza 2 na litha dza 5. Nambatedzani zwifaredzi izwi haf ha kana kha bugu ya ndowedzo. Zwi nambatedzeni zwi tshi tehekana u bva kha zwifaredzi zwi no hwala zwithu zwinzhi u ya kha zwifaredzi zwi no fara zwithu zvituku.



Teacher:
Sign:
Date:

Phetheni dza nomboro

Themo ya 4

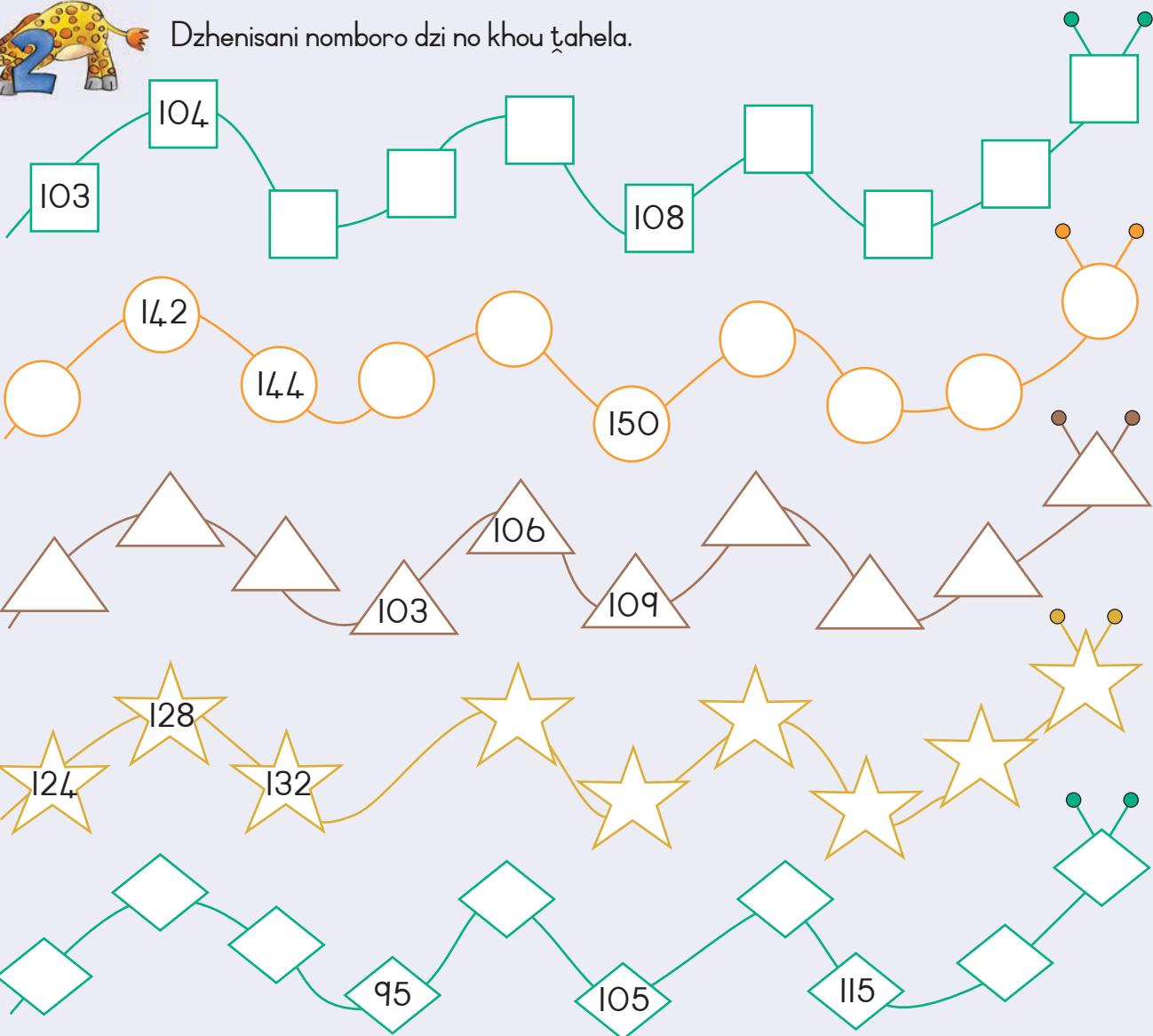


Vheani magaraṭa a tshi tevhekana nga ngona. Ri thoma kha ṭhukhu ri tshi ya kha khulwane, ha tevhela khulwane ri tshi ya kha ṭhukhu.

5	3	8	1	9	7	6	2	4	
61	66	64	69	62	68	67	63	65	
136	132	140	138	131	135	133	137	134	139

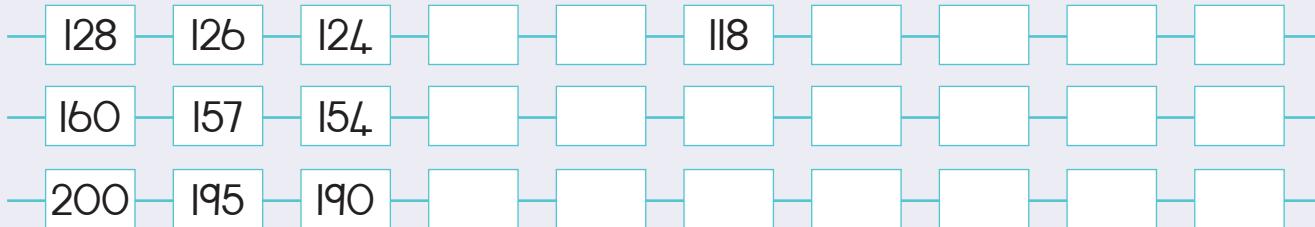


Dzhenisani nomboro dici no khou ṭahela.





Fhedzisani zwi tevhelaho ni tshi vhala ni tshi humela murahu.



Fhedzisani zwi tevhelaho:

100, 102, 104, ___, ___, ___, ___, ___

160, 155, 150, ___, ___, ___, ___, ___

115, 118, 121, ___, ___, ___, ___, ___

200, 190, 180, ___, ___, ___, ___, ___



Fhedzisani mutualombalo.



Ri vhala nga mini?

4 20
8 16
12

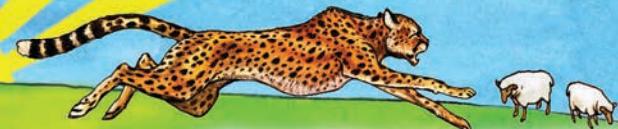
2 14
8 12
4 6

5 15
25 20
10

3 21
15 6
18 12
9



Teacher:
Sign:
Date:



Muandiso wa 3

Themo ya 4

Phukha dzothé dzi na milenzhe ya 4.

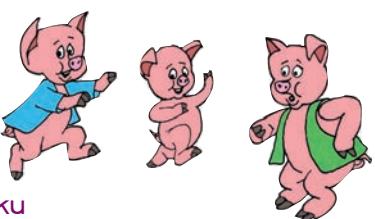


mbevha dza 3
dza mabofu



zwivhingwi zwa 3 zwitšuku

zwiguluzwana zwa 3



Tshivhaloguté tsha milenzhe
tshifanyisoni itshi ndi tshifhio?

Tshivhaloguté tsha ndevhe
tshifanyisoni itshi ndi tshifhio?



Lavhelesani tshifanyiso ni fhedzise zwi tevhelaho.



<input type="text"/>	×	<input type="text"/>	=	<input type="text"/>
Tshivhalo tsha mbevha	Milenzhe nga tshipuka			

<input type="text"/>	×	<input type="text"/>	=	<input type="text"/>
Tshivhalo tsha mbevha	Milenzhe nga tshipuka			



Fhedzisani zwi tevhelaho:

3	6	9							
---	---	---	--	--	--	--	--	--	--

30	27	24							
----	----	----	--	--	--	--	--	--	--



Fhedzisani zwi tevhelaho:

5 × = maapula a <input type="text"/>	4 × = miomva ya <input type="text"/>
6 × = miomva ya <input type="text"/>	7 × = maapula a <input type="text"/>



Fhedzisani zwi tevhelaho:

$$13 \times 3 = \boxed{}$$

$$\begin{array}{r} 1 \quad 0 \\ + \quad 3 \\ \hline 1 \quad 0 \end{array} \times 3$$

$$= \begin{array}{r} 1 \quad 0 \\ + \quad 3 \\ \hline 1 \quad 0 \end{array} \times 3$$

$$= \begin{array}{r} 1 \quad 0 \\ \times 3 \\ \hline 3 \end{array} + \begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$= 30 + 9$$

$$= 39$$



$$15 \times 3 = \boxed{}$$

$$\begin{array}{r} 1 \quad 0 \\ + \quad 5 \\ \hline 1 \quad 5 \end{array} \times 3$$

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

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

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

$$= \boxed{}$$

Khonani mbili dzo wisa kheisi dzadzo dza penisela. Vha na tshit̄eshenari tshi no fana kwaa. Vha thuseni uri vha vhuyedzedze zwithu zwavho.



Fhedzisani zwi tevhelaho:

Kovhelani tshokoleithi iyi vhana vha 2 nga u edana.



Muñwe na muñwe
u wana

Kovhelani malegere a 15 vhana vha 3 nga u edana.



Muñwe na muñwe
u wana



Oiani tshifanyiso ni tshi sumbedza phindulo dzañu.

Kovhelani thofi dza 9 vhana vha 3 nga u edana.

Muñwe na muñwe
u wana

Kovhelani vhana vha 3 kharayoni dza 16. Hu ðo vha na khirayoni dici no ðo sala?

Muñwe na muñwe
u wana



Teacher:

Sign:

Date:



Muandiso wo vanganaho

Themo ya 4

Lavhelesani zwi tevhelaho. Ni vhona mini?

$$5 + 5 + 5 = 15$$



$$\text{zwi}khuvhugu \text{ zwa } 3 \text{ zwa } 5 = 15$$



$$3 \text{ andisa nga } 5 = 15$$

$$3 \times 5 = 15$$

$$5 \times 3 = 15$$

zwigwada zwa 3 zwa 5 ndi 15



Fhedzisani thebulu i re afho fhasi. Tsumbo i do ni dededza.

Pfukani u vhala	Zwigwadazwiedani	Mutanganyomudovholola	Mitevhe	Mbuno
3, 6, 9, 12		$3 + 3 + 3 + 3$	rou dza 3 dza 4 $3 \times 4 = 12$ $4 \times 3 = 12$	$3 \times 4 = 12$ $4 \times 3 = 12$
		$4 + 4 + 4$		
				$6 \times 5 = 30$ $5 \times 6 = 30$
2, 4, 6, 8, 10, 12				



Zwi nga dzhia tshifhinga tshingafhani u ita zwi tevhelaho?



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



Fhindulani mbudziso dici tevhelaho.

thanu nna	
6 kavhili (davhulu)	
6 andisa nga 5	
2 andisa nga 4	
8 andisa nga 2	

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



Dzhenisani nomboro vhudzuloni ha pfarelavhudzulo.

zwigwada zwa 3 zwa 2 ndi 6 kana 3 andisa nga 2 ndi 6 kana $3 \times 2 =$ <input type="text"/>	
zwigwada zwa 4 zwa 3 ndi 12 kana 4 andisa nga 3 ndi 12 kana $4 \times 3 =$ <input type="text"/>	
zwigwada zwa 6 zwa 3 ndi 18 kana 6 andisa nga 3 ndi 18 kana $6 \times$ <input type="text"/> = 18	

Mbalo (thaidzo): Hu na zwivhaleli zwiraru kha rou. Hu na rou dza 4. Hu na zwivhaleli zwingana zwo tangana zwothe? Olani tshifanyiso ni tshi sumbedza phindulo yanu.



Teacher:
Sign:
Date:

115



Muandiso muñwe hafhu

Sedzani tsumbo.



Muandiso ndi
mini?

25 – 10 – 2013	
$4 \times 2 =$	8
$3 \times 4 =$	12
$4 \times 5 =$	20
$2 \times 6 =$	12
2 andisa nga 7 ndi vhugai?	

$$\begin{aligned}1 \times 5 &= 5 \\2 \times 5 &= 10 \\3 \times 5 &= 15 \\4 \times 5 &= 20 \\5 \times 5 &= 25 \\6 \times 5 &= 30 \\7 \times 5 &= 35 \\8 \times 5 &= 40 \\9 \times 5 &= 45 \\10 \times 5 &= 50\end{aligned}$$

Fhedzisani:

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

Shumisani ndila yanu kha u tandulula izwi.

12×2

16×2

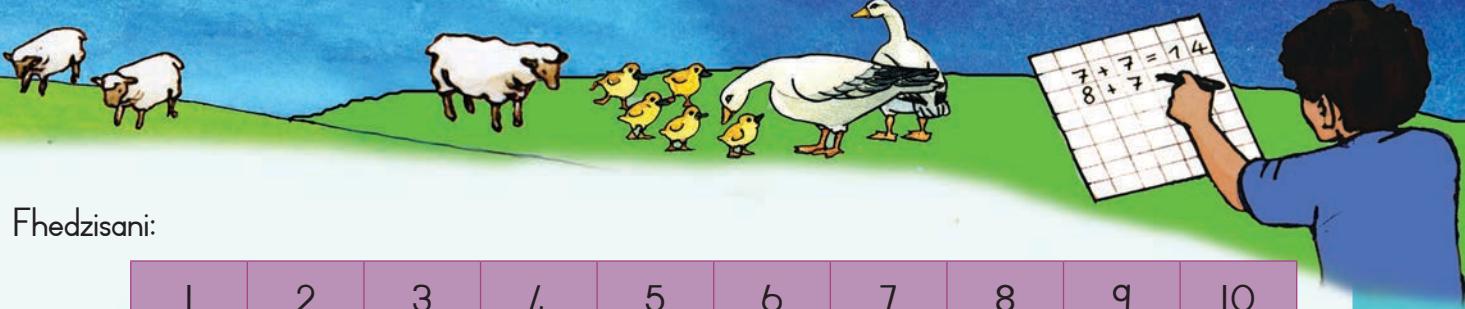
Fhedzisani

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

Shumisani ndila yanu kha u tandulula izwi.

13×3

15×3



Fhedzisani:

	1	2	3	4	5	6	7	8	9	10
$\times 4$	4	8	12							

Shumisani ndila yanu kha u tandulula izwi.

$$11 \times 4$$

$$14 \times 4$$

Fhedzisani:

	1	2	3	4	5	6	7	8	9	10
$\times 5$	5	10	15							

Shumisani ndila yanu kha u tandulula izwi.

$$12 \times 5$$

$$16 \times 5$$



Hu na maswiri a 12 tshikedzini. Hu na maswiri mangana:

Zwikedzini zwa 4?

Zwikedzini zwa 5?

Zwikedzini zwa 3?

Zwikedzini zwa 2?



Teacher:
Sign:
Date:

liba



Themo ya 4

Mađuvha a vhege

Dzudzanyani maledere a mađuvha a Vhege.

uvhiliLavh

dahaSwon

mbuluwoMusu

uraruLavh

hunaLav

ivhelaMug

hutLanuLav



Dzenisani mađuvha a no khou t̄ahela.

Musumbuluwo

Lavhuraru

Swondaha

Lavhuvhili



Nwalani mađuvha a vhege.

Swondaha



Ndi mađuvha mangana u bva:

Musumbuluwo u swika Lavhuna? _____

Lavhuvhili u swika Lavhutanu? _____

Lavhuna u swika Mugivhela? _____



Hu na mađuvha mangana vhukati ha:

Lavhuvhili na Mugivhela? _____

Lavhuraru na Lavhutanu? _____

Lavhuna na Swondaha? _____



Miñwedzi ya ñwaha



Dzudzanyani maleđere a miñwedzi ya ñwaha.

andoPh

huhiLu

Fulwana

medziTshi

raLa

avhusikuNyend

nguleTha

IwiFu

muhweThafa

unthuleShund

bamaiLam

bvumedziKhu



Hu na madžuvha mangana kha ñwedzi muñwe na muñwe?

Phando	Luhuhi	Thafamuhwe	Lambamai
3I			
Shundunthule	Fulwi	Fulwana	Thangule
Khubvumedzi	Tshimedzi	Lara	Nyendavhusiku



Dzhenisani ñwedzi wo teaho.

Ni elelwe uri ndi dzina la ñwedzi, zwino li tea u thoma nga lederezanzi



Ndi ufhio u no rangela Thafamuhwe? _____

Ndi ufhio u no rangela Fulwi? _____



Zwino ndi Fulwana. Hu na miñwedzi mingana hu sa athu swika:

Khubvumedzi? _____

Duvha laru la mabebo? _____



116b



Maduvha, vhege ya na miñwedzi

Deithi:

Themo ya 4

Nyendavhusiku 2015

Swondaha	Musumbuluwo	Lavhuvhili	Lavhuraru	Lavhuna	Lavhut <u>anu</u>	Mugivhela
I	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				



Duvha la u thoma nga Nyendavhusiku ndi la vhungana? _____

Duvha la vhufumithanu nga Nyendavhusiku ndi la vhungana? _____

Duvha la vhufumbilina nga Nyendavhusiku ndi la vhungana? _____

Duvha la vhufumimbili nga Nyendavhusiku ndi la vhungana? _____



Fhindulani mbudziso idzi:

Hu na maduvha mangana nga Nyendavhusiku? _____

Hu na Vhege ya nngana nga Nyendavhusiku? _____

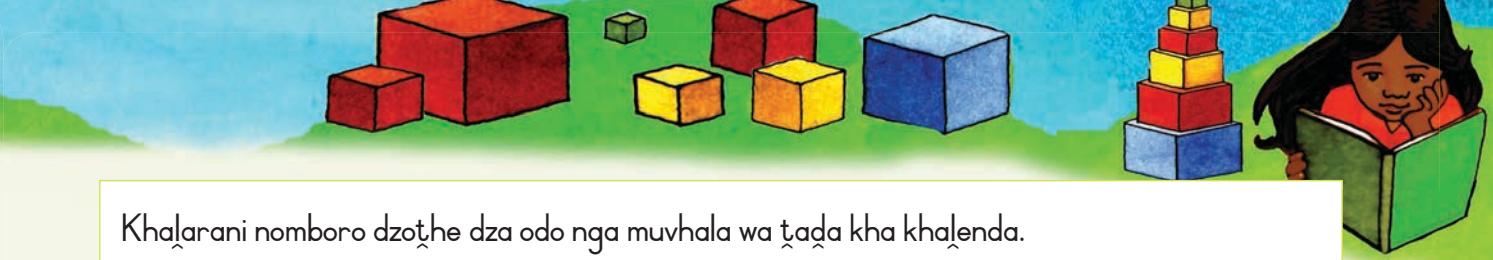
Hu na maduvha mangana kha Vhege ya? _____

Zwikolo zwi khou vala lini nga Nyendavhusiku? _____

Hu bvelela mini nga la 25 la Nyendavhusiku? _____

Hu bvelela mini nga la 31 la Nyendavhusiku? _____

Ndi duvha lifhio li no tevhela la 31 la Nyendavhusiku? _____



Khalaran i nomboro dzothe dza odo nga muvhala wa ṭada kha khalenda.

Ni vhone mini? _____

Khalaran i ivini dzothe nga muvhala mutswuku kha khalenda.

Ni vhone mini? _____



Fhedzisani khalenda. Dzhenisani ḥwaha na deithi.

Lambamai _____

Swondaha	Musumbuluwo	ጀavhuvhili	ጀavhuraru	ጀavhuna	ጀavhutanu	Mugivhela



Ndi datumu ifho nga ḫuvha lifhio?

Deithi	Duvha



Ndi maጀuvha mangana u bva kha:

	u ya kha:		



Teacher: _____
 Sign: _____
 Date: _____

117

Zwinwe hafhu

nga phetheni dza nomboro

Talutshedzani phetheni dici re kha bodo iñwe na iñwe.

I01	I02	I03	I04	I05	I06	I07	I08	I09	I10
II1	II2	II3	II4	II5	II6	II7	II8	II9	II0
I21	I22	I23	I24	I25	I26	I27	I28	I29	I30
I31	I32	I33	I34	I35	I36	I37	I38	I39	I40
I41	I42	I43	I44	I45	I46	I47	I48	I49	I50

I51	I52	I53	I54	I55	I56	I57	I58	I59	I60
I61	I62	I63	I64	I65	I66	I67	I68	I69	I70
I71	I72	I73	I74	I75	I76	I77	I78	I79	I80
I81	I82	I83	I84	I85	I86	I87	I88	I89	I90
I91	I92	I93	I94	I95	I96	I97	I98	I99	I200



Fhedzisani phetheni.

I	(2)	3	4	5	6	7	8	9	10
II	(12)	I3	I4	I5	I6	I7	I8	I9	I20
I21	22	23	24	25	26	27	28	29	30
I31	32	33	34	35	36	37	38	39	40
I41	42	43	44	45	46	47	48	49	50
I51	52	53	54	55	56	57	58	59	60
I61	62	63	64	65	66	67	68	69	70
I71	72	73	74	75	76	77	78	79	80
I81	82	83	84	85	86	87	88	89	90
I91	92	93	94	95	96	97	98	99	100
I01	I02	I03	I04	I05	I06	I07	I08	I09	I10
III	II2	II3	II4	II5	II6	II7	II8	II9	II0
I21	I22	I23	I24	I25	I26	I27	I28	I29	I30
I31	I32	I33	I34	I35	I36	I37	I38	I39	I40
I41	I42	I43	I44	I45	I46	I47	I48	I49	I50
I51	I52	I53	I54	I55	I56	I57	I58	I59	I60
I61	I62	I63	I64	I65	I66	I67	I68	I69	I70
I71	I72	I73	I74	I75	I76	I77	I78	I79	I80
I81	I82	I83	I84	I85	I86	I87	I88	I89	I90
I91	I92	I93	I94	I95	I96	I97	I98	I99	I200

Themo ya 4



Tangedzelani ya odo kana ivini.

4	19	21
odo ivini	odo ivini	odo ivini
26	20	18
odo ivini	odo ivini	odo ivini



Dzhenisani nomboro yo t̄ahelaho ni tshi f̄hedzisa phethenindovhololi.

33, 39, 33, , 33, 39, 33, 39

96, 74, 96, 74, 96, 74, 96,

38, 45, 38, 45, , 45

49, 5, 46, 20, 49, 5, , 20, 49, 5, 46, 20, 49, 5, 46

, 78, 21, 11, 78, 21, 11, 78, 21, 11



Dzhenisani nomboro yo t̄ahelaho ni tshi f̄hedzisa phethenindovhololi.

55, 21, 19, 63, 55, 21, 19, 63, 55, 21, 19, 63, 55, 21, 19,

18, 28, 36, 18, 28, 36, 18, 28, 36, 18, 28, 36, 18,

11, 76, 11, 76, 11, 76,

60, 91, 94, 60, 91, 94, 60, 91, 94, 60,

28, 47, 78, 28, 47, 78, 28, 47, 78, 28,





U kovhekana nga u lingana zwi ri isa kha furakhisheni (zwipida)

Deithi:

Themo ya 4



Kovhekanani baphathi la tshokoleithi ni ambe uri nwana muñwe na muñwe u do wana zwibuloko zwingana.



Zwino kovhelani vhana vha 3
mabaphathi a 6 a tshokoleithi.



Sumbedzani phindulo yanu nga u ola tshifanyiso afho fhasi.



Ni na khekhe dza 3. dzi
kovheni nga u lingana kha
khonani dza 4.



Nwana muñwe na muñwe u wana tshararu tsha
tshokoleithi.

Sumbedzani phindulo yanu nga u ola tshifanyiso
afho fhasi.

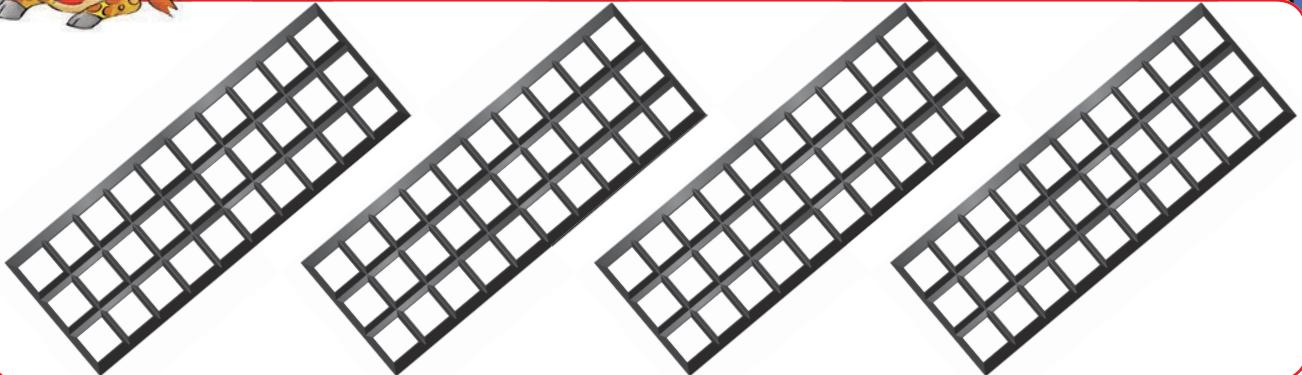
Nwana muñwe na muñwe u wana _____ tsha
khekhe.



Khalarani kota nthihi ya tshokoleithi yo^{the} kha mabaphathi aya.



$$\begin{array}{r} 7 + 7 = 14 \\ 8 + 7 \end{array}$$



Ndi zwibuloko zwingana zwa tshokoleithi zwi no ita kota? _____

Khalarani tshathantu tsha tshokoleithi dzothé kha mabaphathi aya. _____



Sumbedzani hafu ya zwi tevhelaho.



Sumbedzani tshararu tsha malegere.



Sumbedzani tsharathi tsha malegere.



Kovhelani khonani nna mabaphathi a II a tshokoleithi lune vhothe vha wana tshivhalo tshi no fana tsha tshokoleithi ha vha hu songo sala tshithu.



Teacher:
Sign:
Date:

119



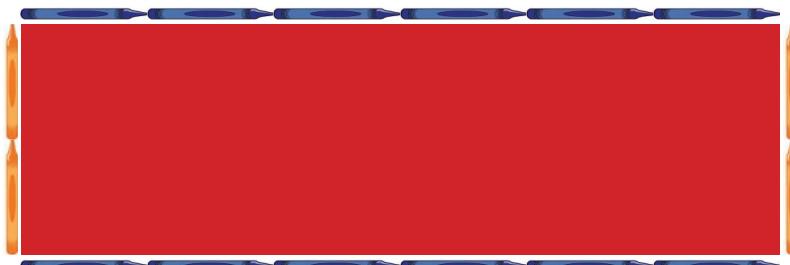
Vhulapfu

Deithi:

Themo ya 4



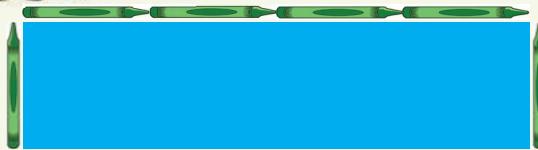
Ndi sia lifhio la rekithiengele line la vha li pfufhisa? Li lapfusa?



Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



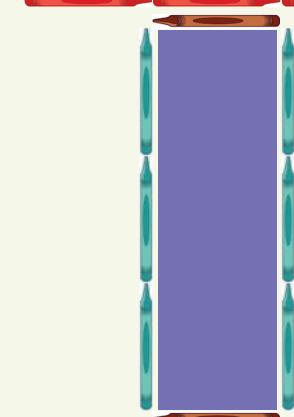
Fhindulani zwi tevhelaho.



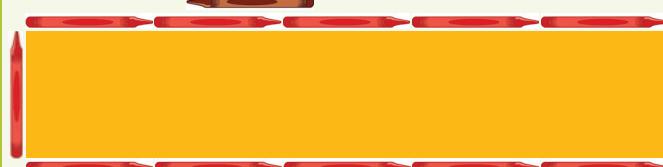
Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



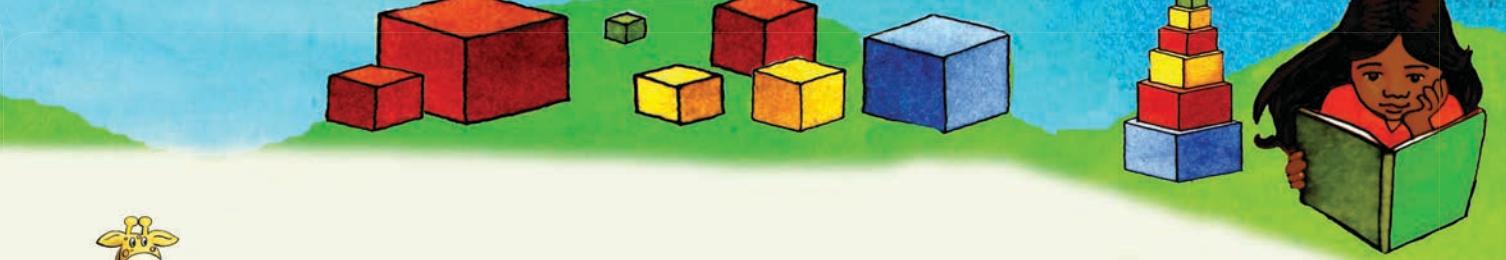
Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



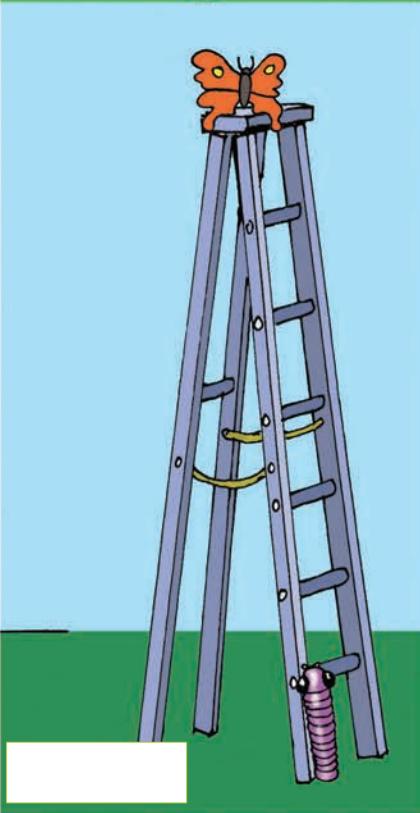
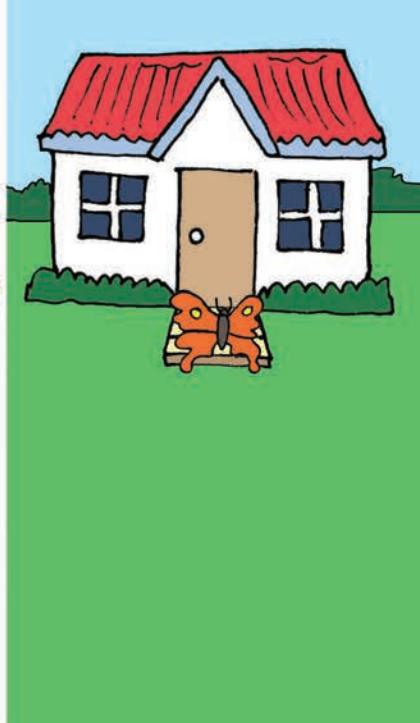
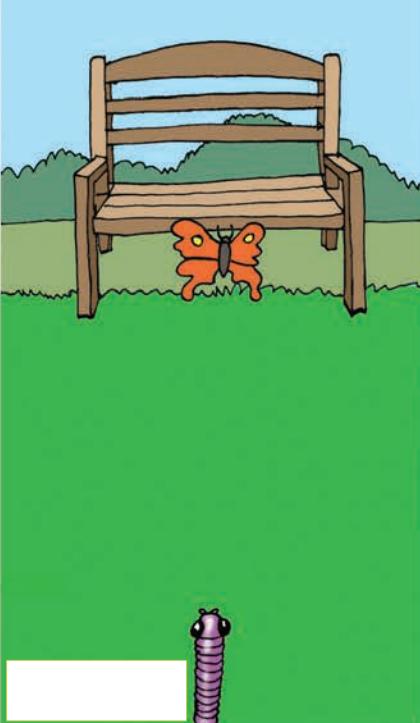
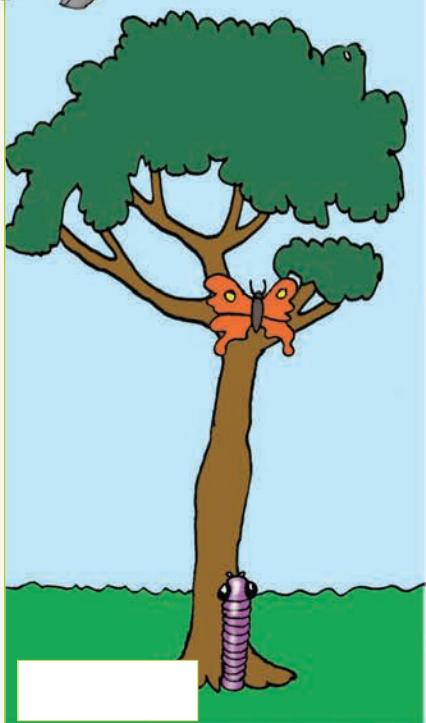
Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



Arali zwivhungu zwa nga bevana, zwi ḫo dzhia zwivhungu zwingana u swika kha tshisu?



Teacher:
Sign:
Date:

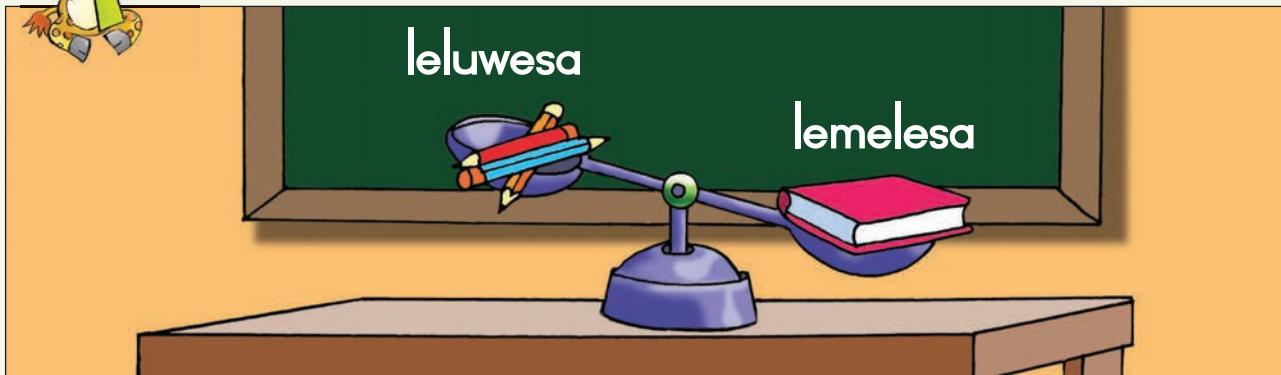


U lemelesa na u leluwesa

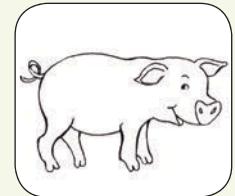
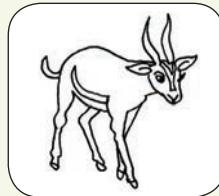
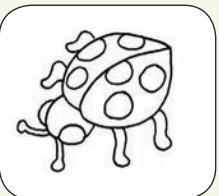
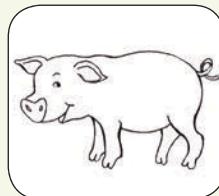
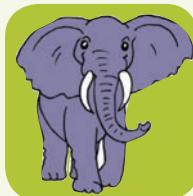
Deithi:



U lemelesa na u leluwesa?



Khalarani tshifanyiso kana zwifanyiso zwi no sumbedza zwithu zwi no lemela u fhira zwi re kha tshibuloko tshidala.



Khalarani tshifanyiso kana zwifanyiso zwi no sumbedza zwithu zwi no leluwa u fhira zwi re kha tshibuloko tshidala.



Lavhelesani tshifanyiso. Wanani zwifanyiso zwa 2 zwa zwithu zwine zwa leluwa. Zwi nambatedzeni hafha.





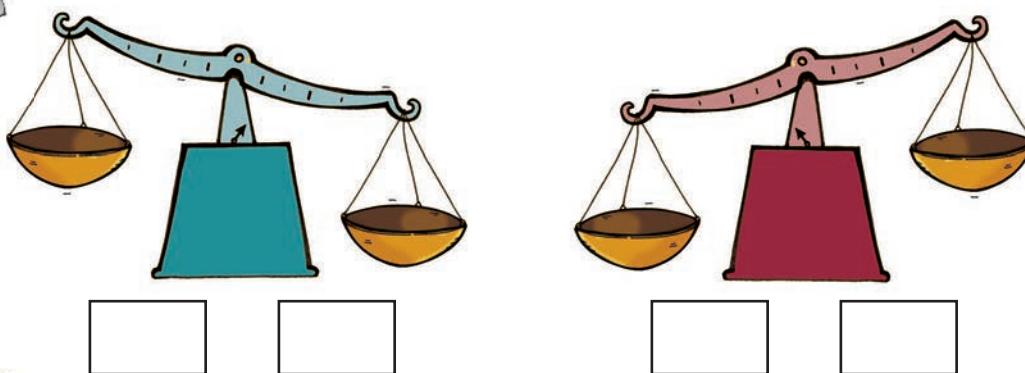
Bulani uri zwikalondinganyiso zwi a lingana naa kana hai.



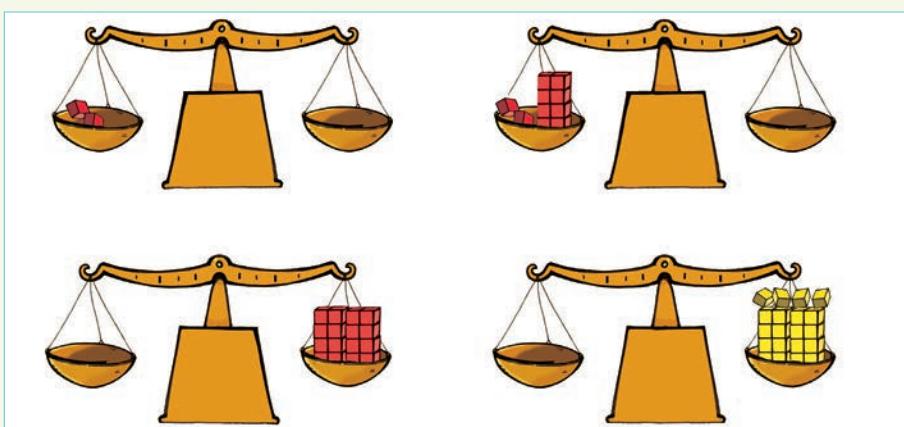
Itani uri zwikalondinganyiso zwi lingane. Itani nyolo kha zwikalo zwi si na tshithu.



Olani tshifanyiso tsha uri zwikalondinganyiso zwi vhe zwone.



Engedzani zwibuloko uri zwikalo zwi lingane =



Teacher: _____
Sign: _____
Date: _____

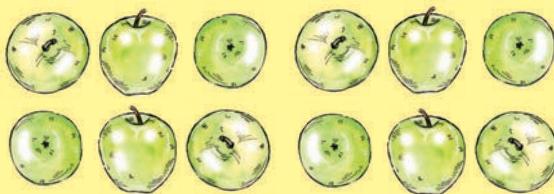


U kovhekana nga u lingana zwi ri isa kha furakhisheni (zwipida) hafhu

Deithi:

Themo ya 4

Kovhelani khonani tharu maapula aya.



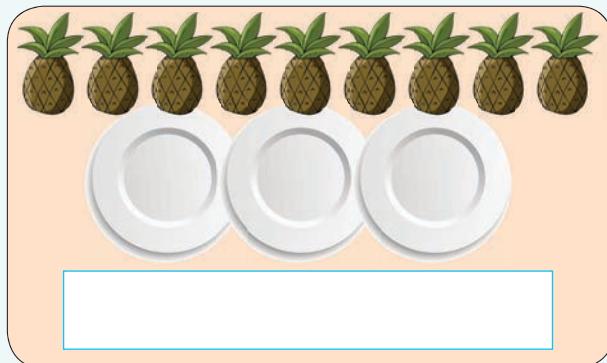
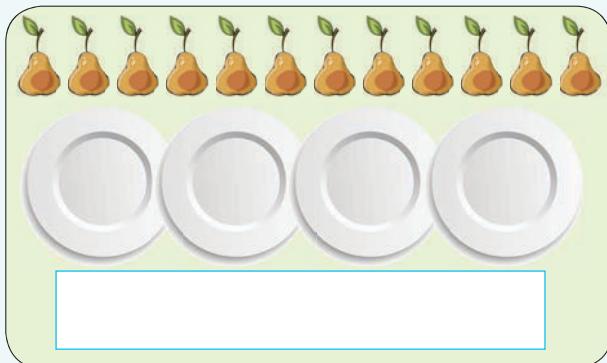
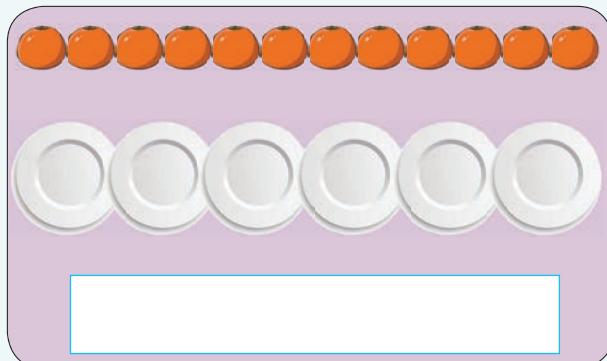
Muñwe na muñwe u wana maapula mangana?

Muñwe na muñwe u wana furakhisheni nngafhani ya maapula? Tshararu.



Lavhelesani tsumbo i re afho nthā ni fhedzise zwi tevhelaho.

- Kovhelani zwivhalo zwo fhambananaho zwa dzikhonani mitshelo iyi.
- Bulani uri khonani iñwe na iñwe i wana furakhisheni nngafhani.



Makhulu vha fha Kutelani maswiri a 12. Kutelani u ita dzhusi nga tshararu tshao. O shumisa maswiri mangana?

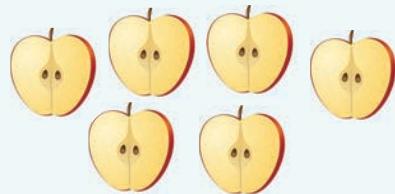


Maapula mararu



a tshewa a bva dzihafu.

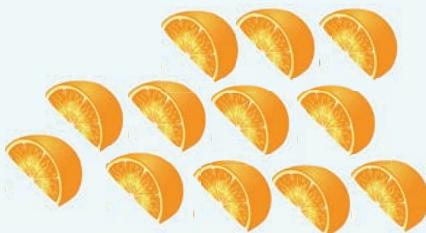
Ndi vhana vhangana vhane muñwe na muñwe wavho
a do wana hafu? _____



Maswiri mana



a tshewa a bva zwipida zwa tshararu.



Ndi vhana vhangana vhane muñwe na muñwe wavho
a do wana tshararu? _____



Mabvani mavhili



a tshewa a bva zwipida zwa tsharathi.



Ndi vhana vhangana vhane muniwe na muniwe wavho a
do wana tsharathi? _____



Mugudisi wa netibolo vha nea mutambi muñwe na muñwe
swiri. Hu na vhatambi vha 14. Vha fanelu u vha vhe na
maswiri mangana?



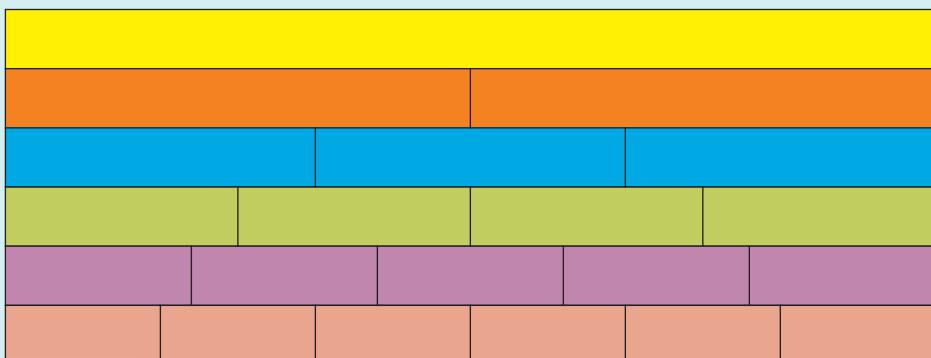


Furakhisheni

Deithi:

Themo ya 4

Lubannda luñwe na luñwe lu amba mini? Maipfi a re kha tsha monde a nga ni thusa.



tshararu

tshathhanu

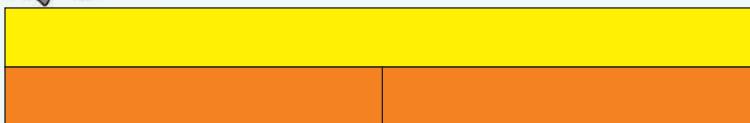
hafu

tsharathi

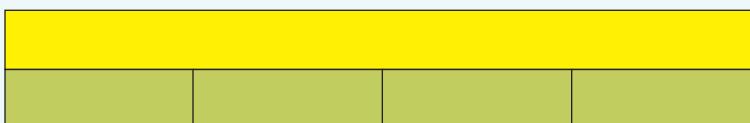
kota



Fhedzisani zwi tevhelaho.



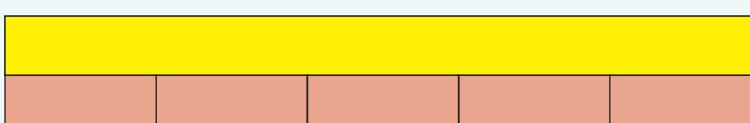
Hafu dza 2 dzi fana na _____ yothé.



Kota dza 4 dzi fana na _____ yothé.



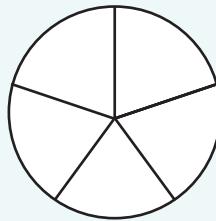
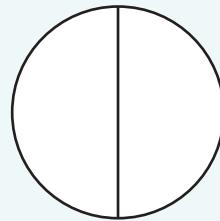
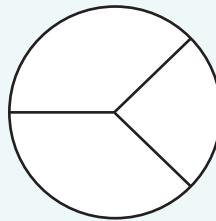
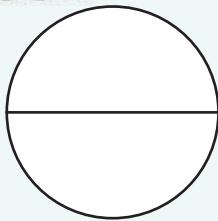
Zwararu zwa 3 zwi fana na _____ yothé.



Zwañhanu zwa 5 zwi fana na _____ yothé.

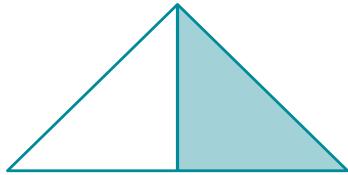


Khalarani zwi tevhelaho. Ni vhona mini?





Bulani uri ndi furakhisheni nngafhani ya tshivhumbeo tshiñwe na tshiñwe ye ya swifhadzwa. Nwalani nga maipfi.



hafu



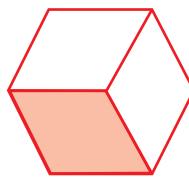
hafu



Olani zwifanyiso ni tshi sumbedza zwi tevhelaho. Shumisani zwikwea, rekithiengèle na zwitendeleledzi.



tshararu



hafu

kota

tshathantu

Humbelani mubebi kana muundi wañu zwine a ño renga:

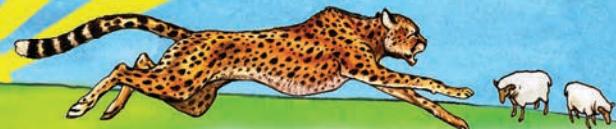
• Hafu nthihi ya:

• Tshararu tsha:

• Kota ya:

• Tsharathi tsha:





Furakhisheni haf hu

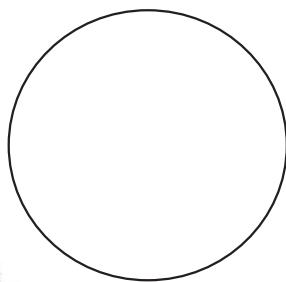
Themo ya 4

Ni nga tama u la tshilai tsha ifhio khekhe? Ngani?

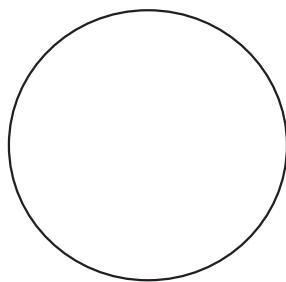


Khonani yanu u ni humbela uri ni kovhekanye pitza i bve zwilai zwi no lingana. Olani tshifanyiso ni tshi sumbedza tshiñwe na tshiñwe tsha izwi.

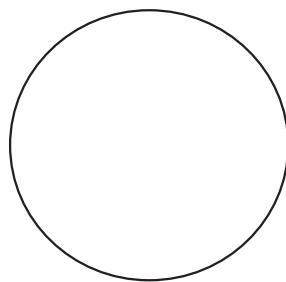
Dzhafu



Zwa tshararu



Dzikota



Itani thiki kha phindulo i re yone.

Inwi na khonani yanu no la hafu mbili dza pitza. No la nngafhani?

Thamba, Sipho na John vho la zwararu zwa pitza. Vho la pitza nngafhani?

Lufu, Sundani, Lerato na Palesa vho la pitza nthihi yo \ddot{t} he. Vho la pitza nngafhani?

- Hafu nthihi ya pitza kana
- Pitza yo \ddot{t} he?

- Tshararu tsha pitza kana
- Pitza yo \ddot{t} he?

- Kota nthihi kana
- Kota nna?

Fhindulani mbudziso dici tevhelaho:

- Arali nda khethenkanya pitza ya bva zwat \ddot{t} hanu, ndi zwat \ddot{t} hanu zwingana zwine ra tea u la uri ri vhe ro la pitza yo \ddot{t} he? _____
- Arali nda khethenkanya pitza ya bva zwarathi, ndi zwarathi zwingana zwine ra tea u la uri ri vhe ro la pitza yo \ddot{t} he? _____



Tshigwada tshiñwe na tshiñwe
tsha dzikhonani tshi wana
phakhethé thukhu ya malegere
a dzheli a zwipulumbu.



$$\begin{array}{r} 7 + 7 = 14 \\ 8 + 7 \end{array}$$



Tshigwada	1	2	3
Vhana vha re kha tshigwada	2	3	4
Khonani iñwe na iñwe i ðo wana malegere mangana a dzheli a zwipulumbu arali vho kovhelwa a no lingana?			
Itani thiki kha tshigwada tshine na tama u vha khatsho. Ndi ngani?			
Zwi tevelaho zwi ðo vha malegere mangana? Ni vhona mini?	Hafu mbili	Zwararu zwiraru	Kota nña



Khalarani furakhisheni i no fana na nthihi yothe.

kota tharu

tshararu tshithihi

kota mbili

zwathanu zwiraru

zwararu zwivhili

hafu nthihi

zwathanu zwitanu

zwathanu zwivhili

hafu mbili

zwathanu zwivhili

kota nthihi

zwathanu zwina

zwararu zwiraru

Ni nga takalela zwifhio, kota nña dza tshikoleithi kana tshokoleithi nthihi yothe? Ndi ngani?



Teacher: _____
Sign: _____
Date: _____



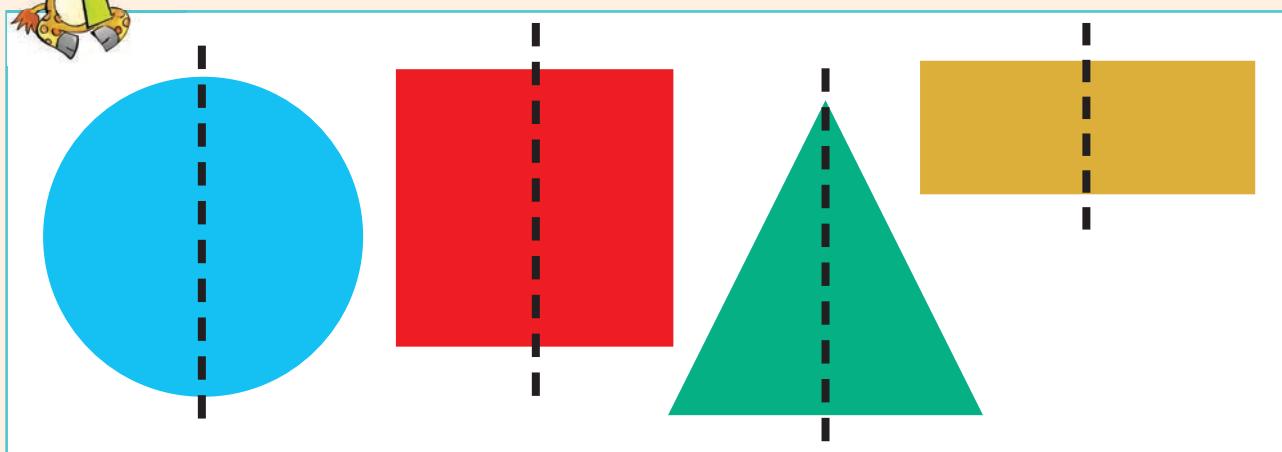
Ndinganahuvhili na zwivhumbeo

Deithi:

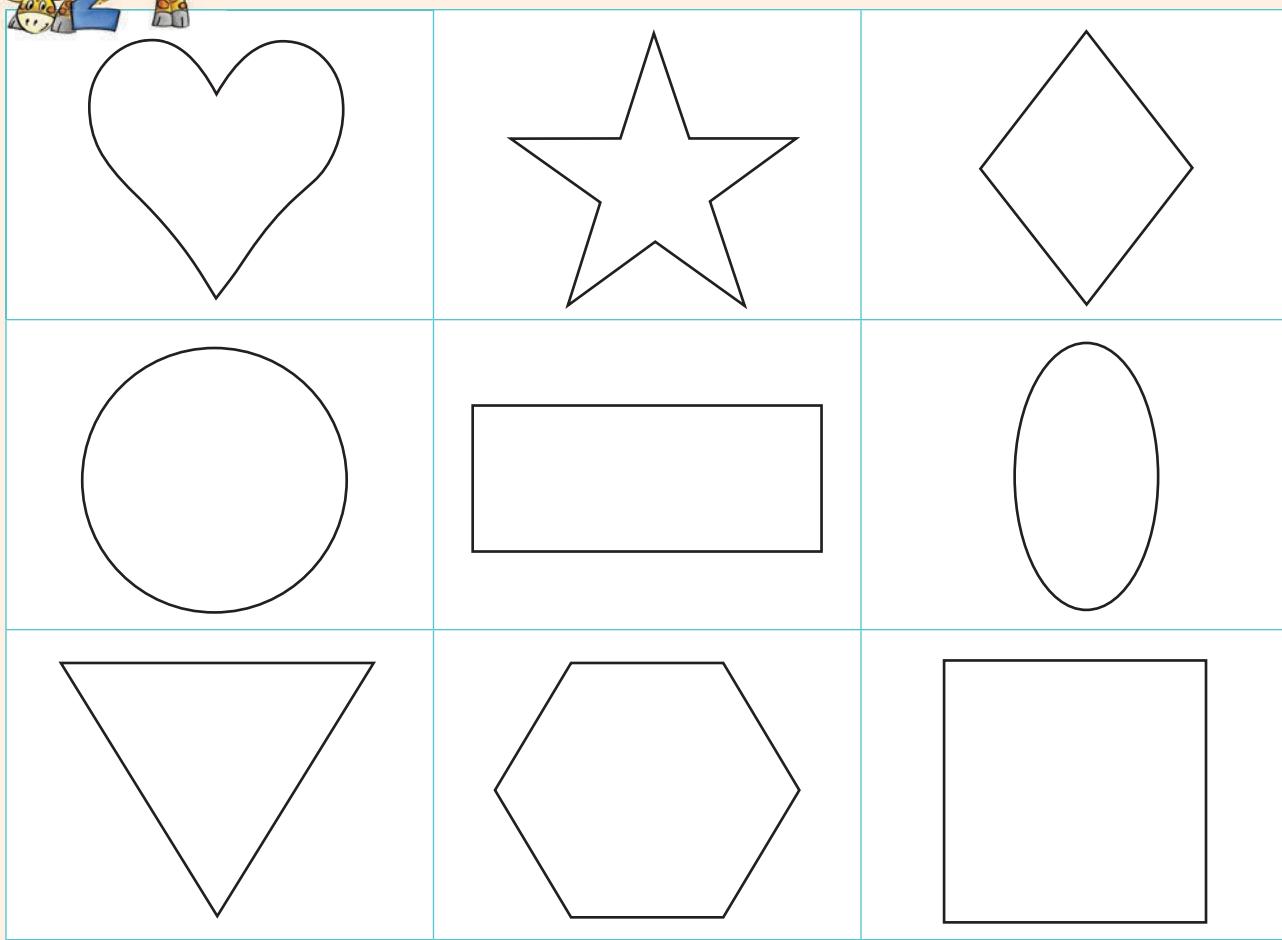
Themo ya 4

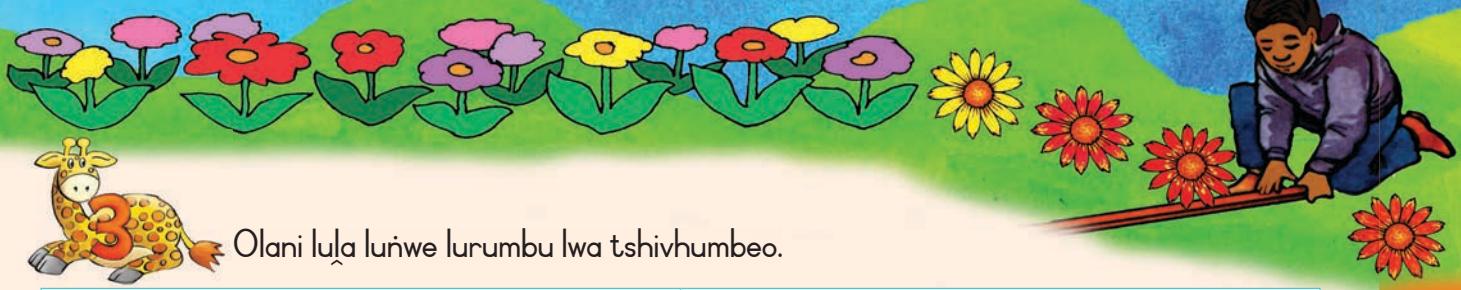


Lavhelesani zwifanyiso zwa zwivhumbeo. Lurumbu luthihi lwa tshivhumbeo lu fana na lu^{la} lu^{nwe}? Zwi kha ndinganyahuvhili?

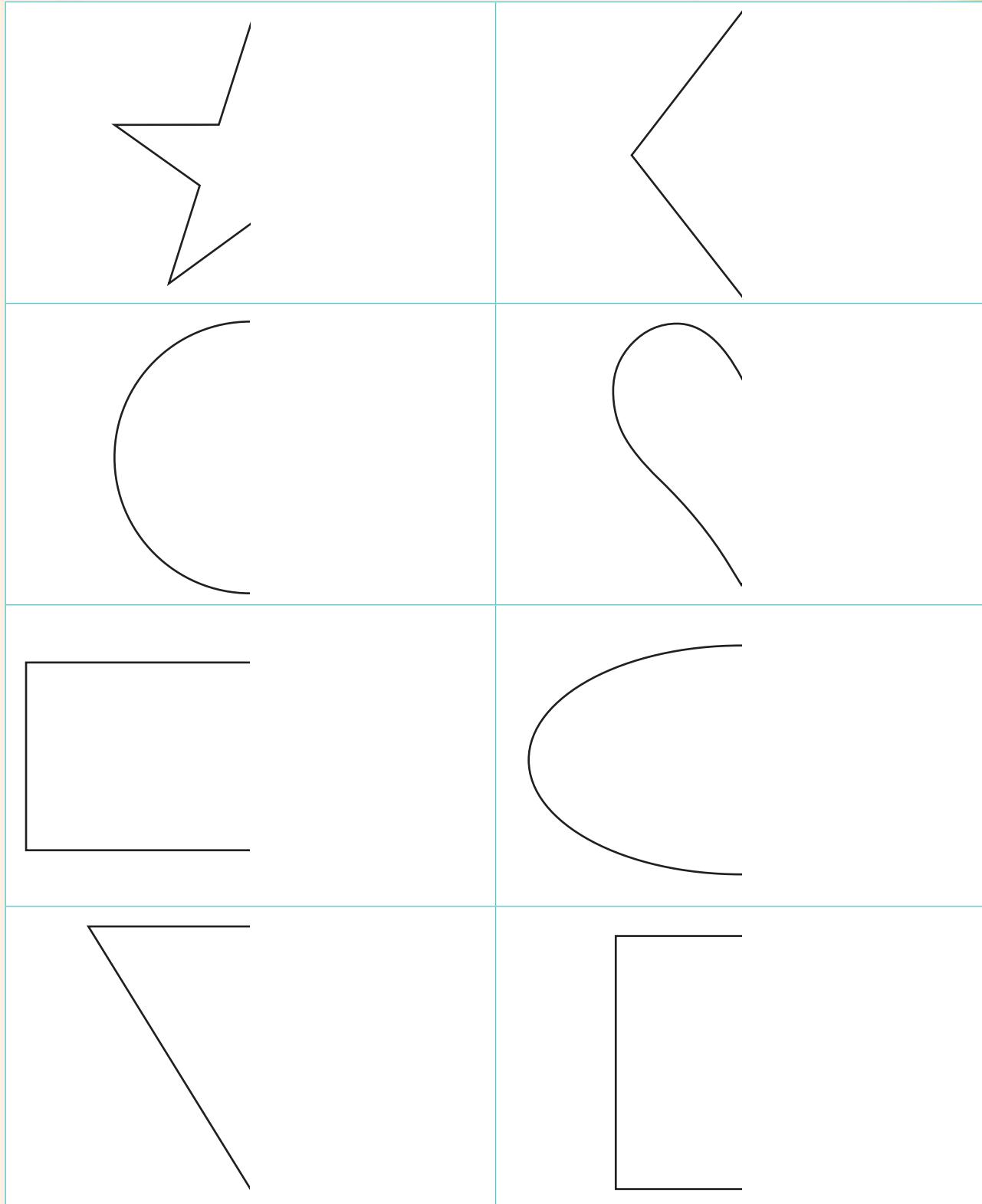


Talani mutalo u itela uri lurumbu luthihi lwa tshivhumbeo lu fane na lu^{la} lu^{nwe}.





Olani lula lurwe lurumbu lwa tshivhumbeo.



Teacher:
Sign:
Date:

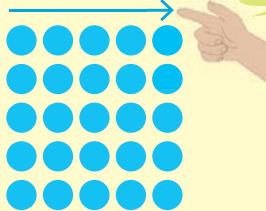


Deithi:

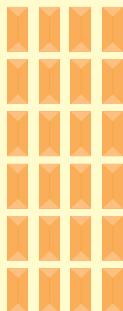
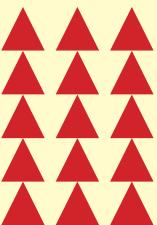
Mitevhe na furakhisheni

Kha vha nee vhagudi zwifanyiso zwi tevhelaho. Kha vha vha vhudzise uri vha nga kona u rekanya zwithu nga luhilo lu ngafhani?

Hei ndi kholomo.



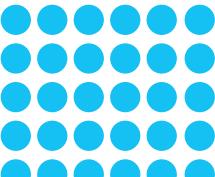
Hei ndi rou.



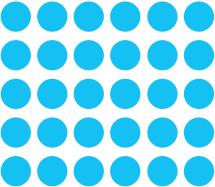
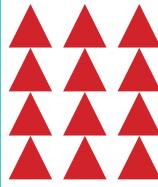
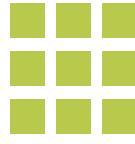
No shumisa kholomo na rou nga ndilade uri zwi ni thuse?



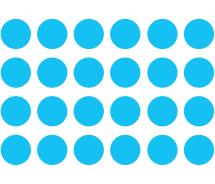
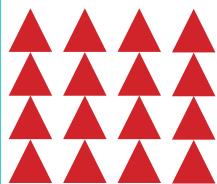
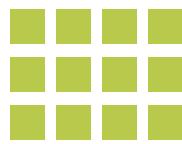
Hu na zwivhumbeo zwingana? Hafu nthihi ya zwivhumbeo ndi mini?



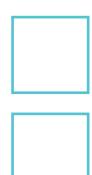
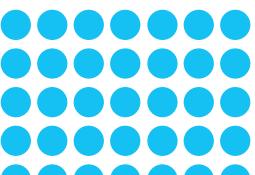
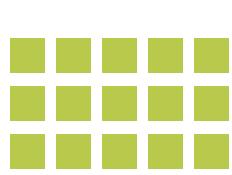
Hu na zwivhumbeo zwingana? Tshararu tshithihi tsha zwivhumbeo ndi mini?



Hu na zwivhumbeo zwingana? Kota nthihi ya zwivhumbeo ndi mini?



Hu na zwivhumbeo zwingana? Tshat $\ddot{\text{h}}$ anu tshithihi tsha zwivhumbeo ndi mini?





Fhedzisani thebulu i re afho fhasi.

	Fhungombalo la muandiso	Fhungombalo la mukovho	Ndi mini	Ndi mini
	$2 \times 3 = 6$ kana $3 \times 2 = 6$	$6 \div 2 = 3$ kana $6 \div 3 = 2$	hafu nthihi ya zwithu ndi mini? 3	tshararu tshithihi tsha zwithu ndi mini? 2
				kota nthihi ya zwithu ndi mini?
			kota nthihi ya zwithu ndi mini?	tshathantu tshithihi tsha zwithu ndi mini?

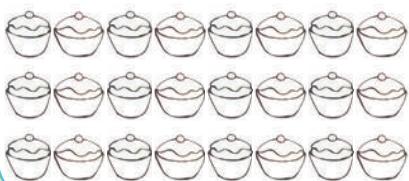


Shumisani mitevhe kha u sumbedza:

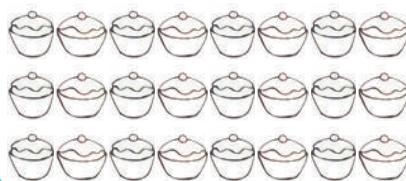
Kota nthihi ya malegere a 12.	Tshararu tshithihi tsha malegere a 12.	Hafu nthihi ya malegere a 12.
-------------------------------	--	-------------------------------

Mme anga vho baka khekhe ya khaphu dza 24 vha tshi bakela iñwe na iñwe ya indasitirii dza mahayani dzi tevhelaho. Avha vhatu vho oda: Ni vhe na vhutanzi uri ni shumisa zwifanyiso zwa khekhe ya khaphu uri zwi ni dededze.

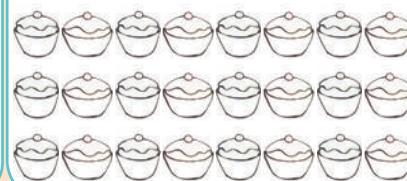
hafu nthihi ndi dza sitiroberi ngeno dziñwe dzothe dzi dza vanila



kota nthihi ndi dza tshokoleithi ngeno dziñwe dzothe dzi dza vanila



tshararu tshithihi ndi tsha sitiroberi ngeno dziñwe dzothe dzi dza vanila



Teacher: _____
 Sign: _____
 Date: _____



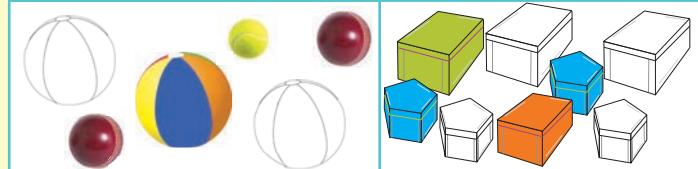
Furakhesheni ya tshikhuvhugu tsha zwithu

Deithi:

Themo ya 4

Lavhelesani ተhalutshedzo idzi ni dzi livhanye na zwifanyiso u itela u sumbedza uri ho khałariwa furakhisheni nngafhani ya zwithu. Ambani ngazwo.

Hafu ya I ya tshikhuvhugu tsha zwithu



Tshararu tsha I tsha tshikhuvhugu tsha zwithu



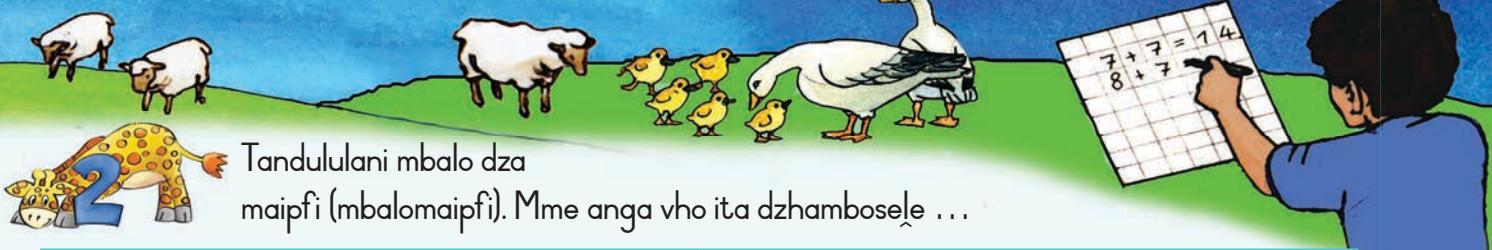
Kota ya I ya tshikhuvhugu tsha zwithu

Tshathantu tsha I tsha tshikhuvhugu tsha zwithu



Vhumbani fhungo ለanu inwi muñe nga zwifanyiso zwe re afho fhasi. Ni tea u dzenisa maipfi a no amba nga furakhisheni mafhungoni ayo.





Tandululani mbalo dza
maipfi (mbalomaipfi). Mme anga vho ita dzhambosele ...

O vha e na zwikhipha zwa 15. Vha rengisa zwa 5.

Ndi furakhisheni nngafhani ye vha rengisa?

Talelani mbudziso. Nomboro dzi re khulwane
(dza khii) ndi dzifhio? _____

Olani tshifanyiso ni tshi sumbedza phindulo yanu.

O vha e na dzhesi dza 18. Vha rengisa dza 9.

Ndi furakhisheni nngafhani ye vha rengisa?

Olani tshifanyiso ni tshi sumbedza phindulo yanu.

Talelani mbudziso. Nomboro dzi re khulwane
(dza khii) ndi dzifhio? _____

Olani tshifanyiso ni tshi sumbedza phindulo yanu.

O vha e na zwikete zwa 12. A rengisa zwa 3.

Ndi furakhisheni nngafhani ye vha rengisa?

Talelani mbudziso. Nomboro dzi re khulwane
(dza khii) ndi dzifhio? _____

Olani tshifanyiso ni tshi sumbedza phindulo yanu.

O vha e na badzhi dza 20. Vha rengisa dza 4.

Ndi furakhisheni nngafhani ye vha rengisa?

Talelani mbudziso. Nomboro dzi re khulwane
(dza khii) ndi dzifhio? _____

Olani tshifanyiso ni tshi sumbedza phindulo yanu.



Ndi furakhisheni nngafhani ya khekhe dza khaphu dzine dza vha na aisiñi ya muomva? _____

Aisiñi ya sitiroberi? _____

Aisiñi ya babulugamu? _____



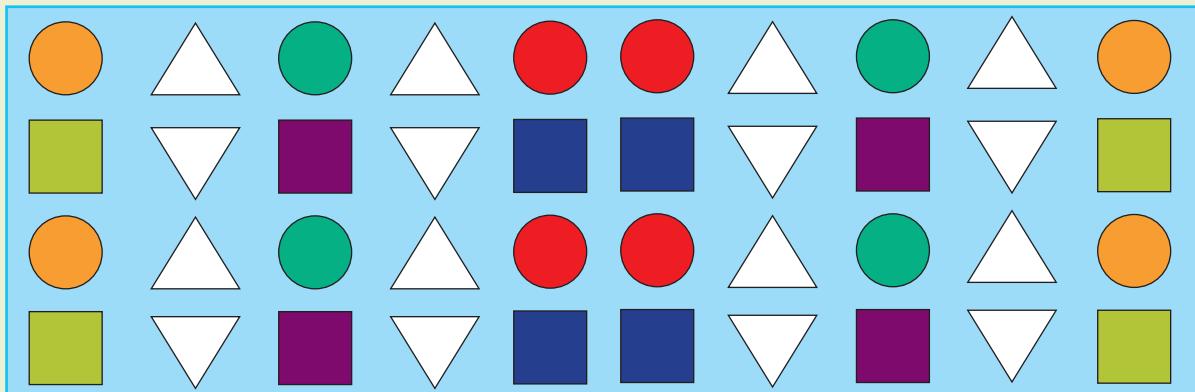
Teacher: _____
Sign: _____
Date: _____



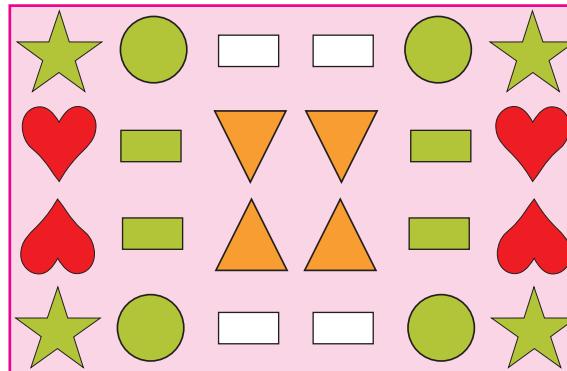
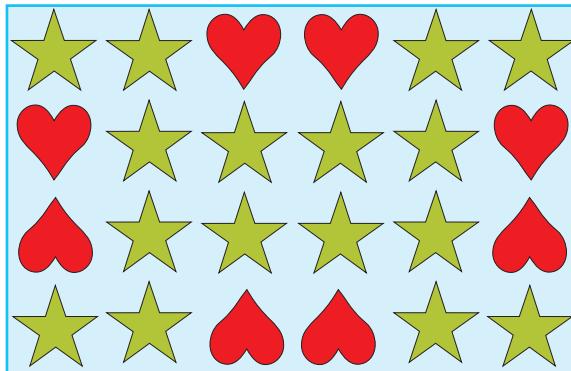
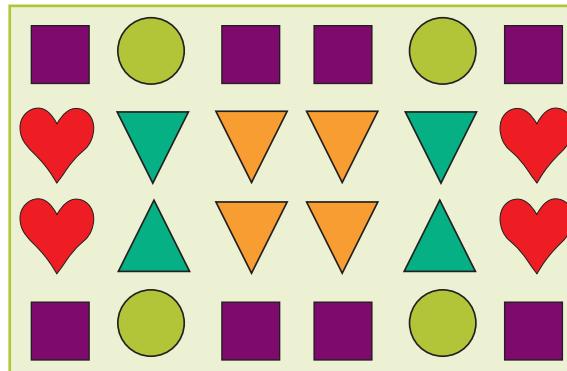
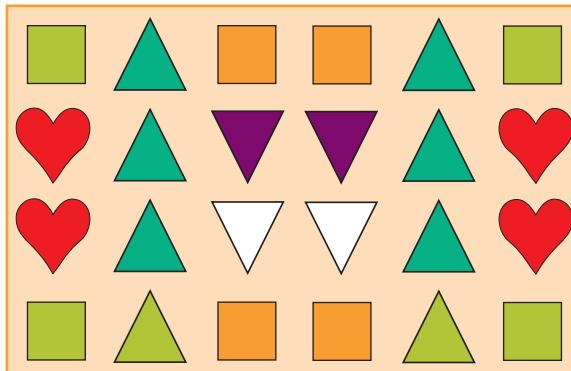
Lavhelesani zwifanyiso zwa makolo. Ni vhona mini?

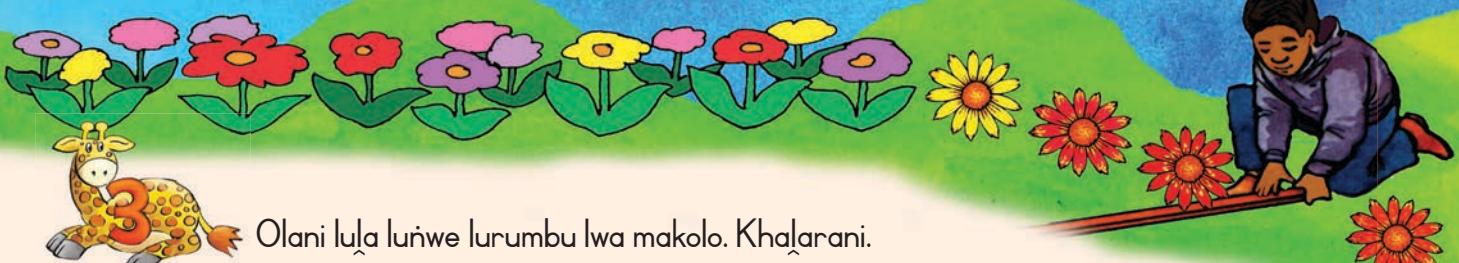
Ndinganahuvhili kha phetheni

Deithi:

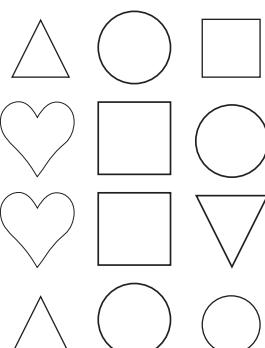
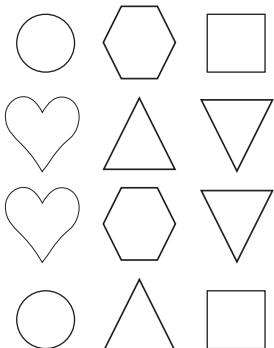
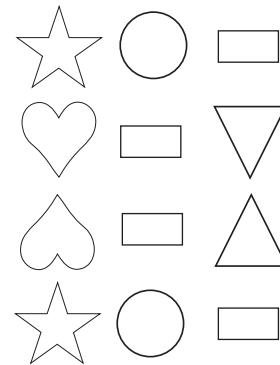
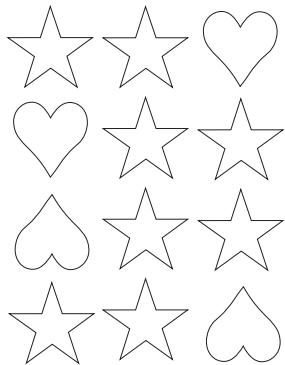
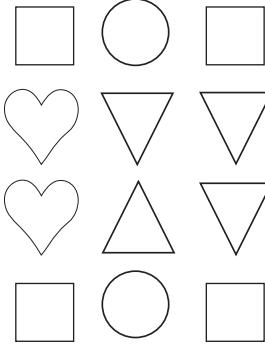
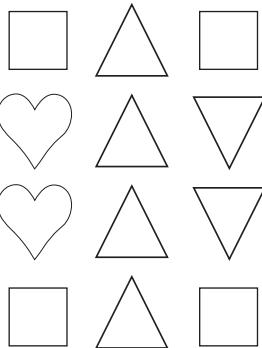


Talani mutalo u itela uri lurumbu luthihi lwa makolo aya lu fane na lu la lunwe.





Olani lula luñwe lurumbu lwa makolo. Khalarani.



Teacher:
Sign:
Date:

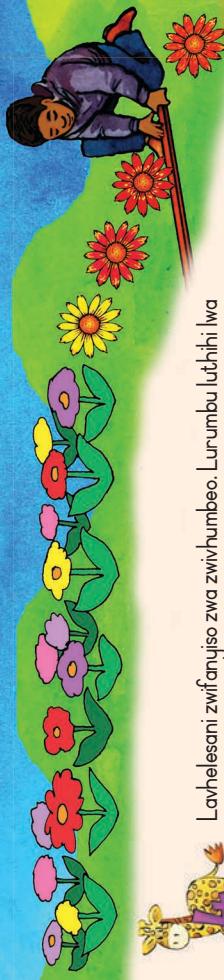


Ndinganahuvhili hafhu

Lavhelesani zwifanyiso zwa zwihumbeo. Lurumbu lutihii lwa tshihumbeo lu fana na lula lunwe? Zwi kha nalinganahuvhili?



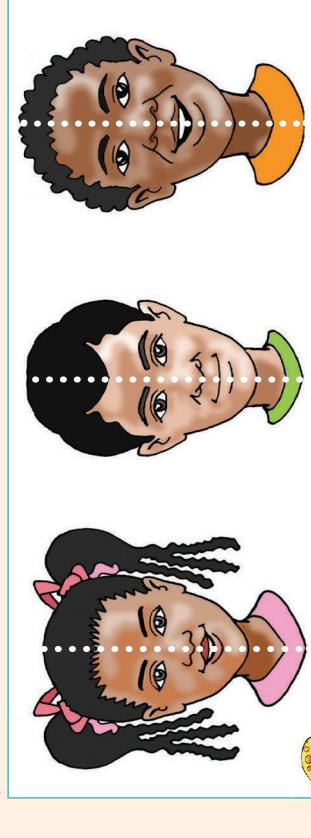
Dotki



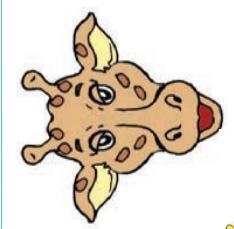
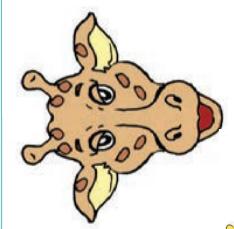
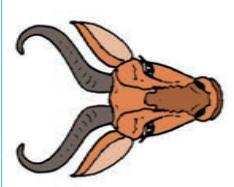
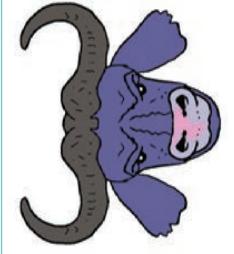
128

Theme ja 4

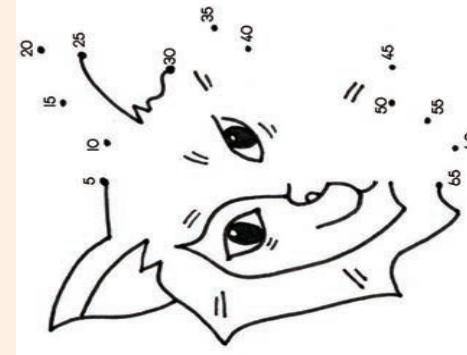
Lavhelesani zwifanyiso zwa zwihumbeo. Lurumbu lutihii lwa tshihumbeo lu fana na lula lunwe?



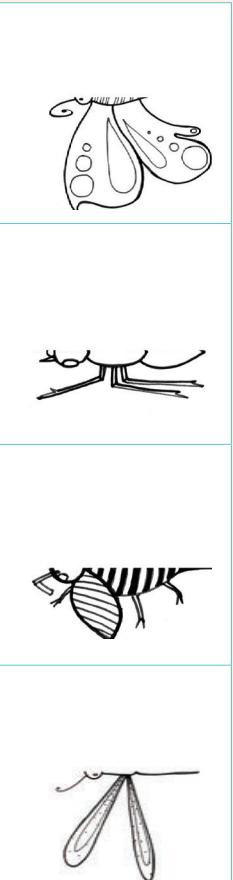
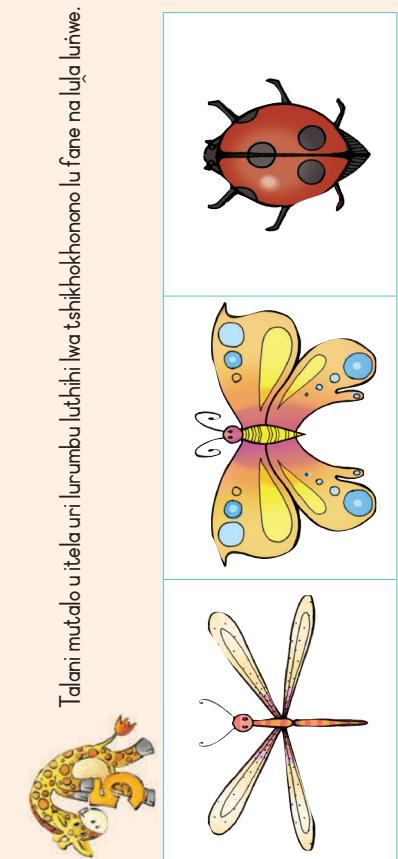
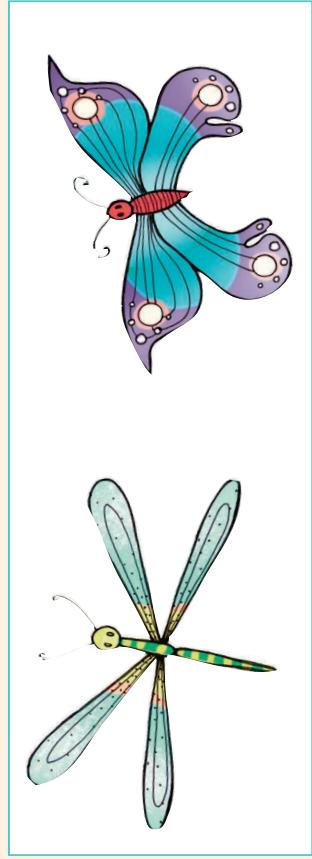
Talani mutalo utieluri lurumbu lutihii lwa tshihumbeo lu fana na lula lunwe.



Olanilula lunwe lurumbu lwa sia.
Phetheni dia nombororo dia nitithusa.



Olanilula lunwe lurumbu lwa sia.
Phetheni dia nombororo dia nitithusa.



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