



Vho Angie Motshekga Minista wa Mhasho wa Pfunzo ya Muteo



Vho Enver Surty Mthusaminista wa Pfunzo ya Muteo

Bugu idzi dzo nwaletwa vhana vha Afrika Tshipembe, mushumo wa hone wo rangiwa phanda nga Minista wa Pfunzo ya Muteo. Vho Angie Motshekga na Mthusaminista wa Pfunzo ya Muteo. Vho Enver Surty.

Bugu dza u shumela dza Rainbow ndi tshipiḁa tsha zwe Mhasho wa Pfunzo ya Muteo wa ita zwa u khwinisa vhekoni ha vhagudi vha Afrika Tshipembe vha giredi dza rathi dza u ranga. Sa tshinwe tsha zwithu zwiḁulwane zwa Pulanetshumisi (Action Plan) ya Muvhuso, thandela iyi yo konadzea nge ya lambedzwa lu sa vhudzisi nga Mhasho wa Gwama la Lushaka (Thirezhari). Hezwi zwo ita uri Mhasho u kone u bvedza bugu idzi, dzi kha nyambo dzoḁhe dza tshiofisi, dzi tshi waniwa mahala.

Ri na fulufhelo la uri bugu idzi dzi ḁo thusa vhadededzi (vhagudisi) mushumoni wavho wa u funza wa ḁuvha linwe na linwe khathihi na u vha na vhuḁanzi uri vha khunyeledze kharikhulamu yoḁhe. Ro ita nga vhuronwane uri ri sumbedze nḁila vhadededzi kha nyito nge ra shumisa aikhoni dzi no sumbedza uri mugudi u tea u ita zwiḁhio.

Ri na fulufhelo li no bva li mbiluni uri vhana vha ḁo ḁiphiḁa nga u shumisa bugu idzi zwenezwi vha tshi khou aluwa na u guda, khathihi na uri na vhonevho, sa mudededzi, vha ḁo ḁiphiḁa na vhana avha.

Ri ri kha vhone na vhagudi vhavho, ngavhe zwi tshi vha nakela musi vha tshi shumisa bugu idzi. Zwi pfumbe.



Published by the Department of Basic Education
222 Struben Street
Pretoria
South Africa

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Fifth edition 2015

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

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ISBN 978-1-4315-0145-8



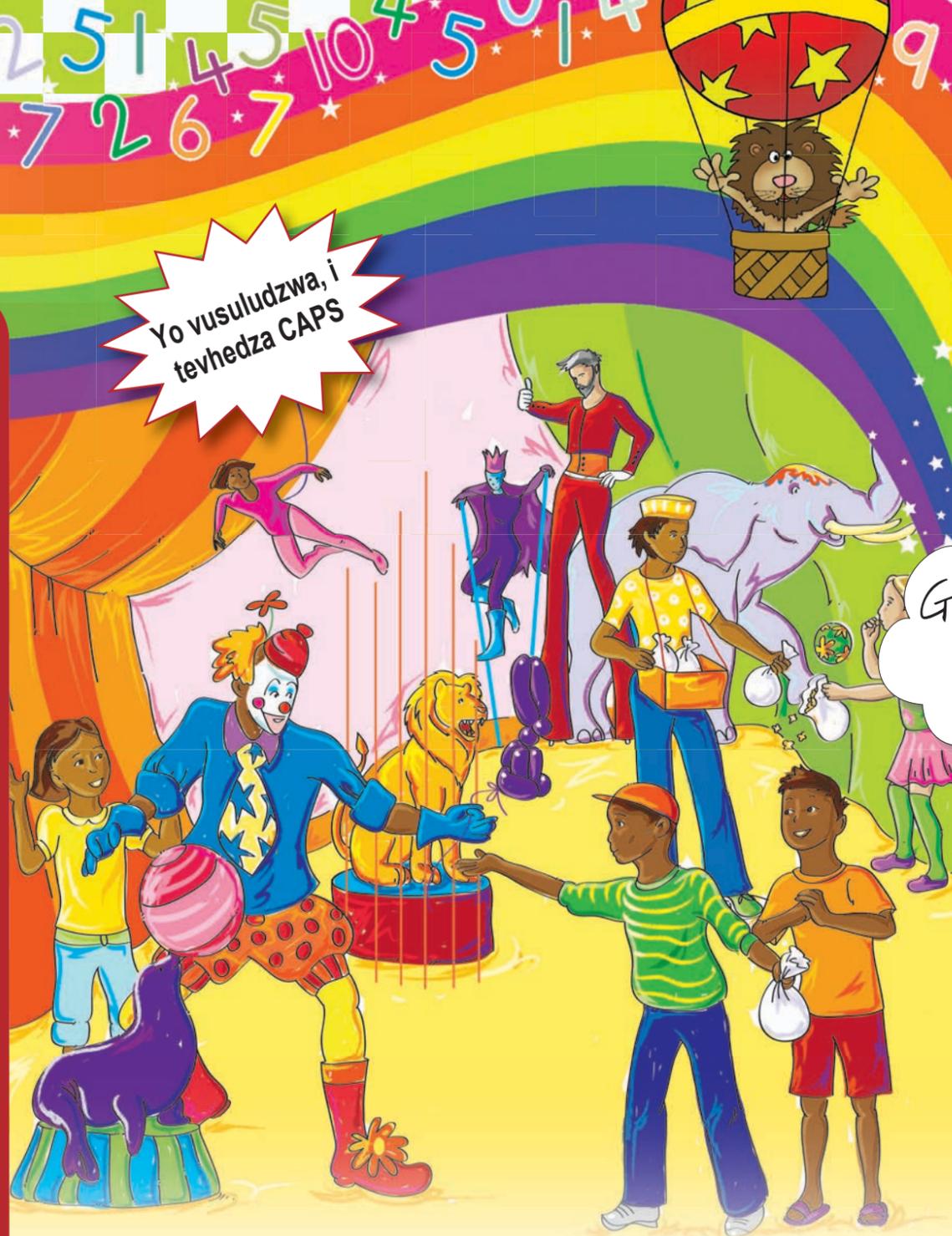
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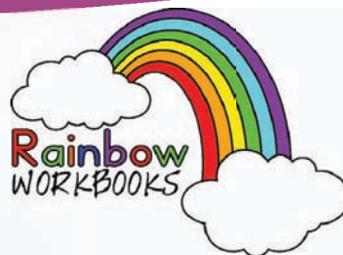
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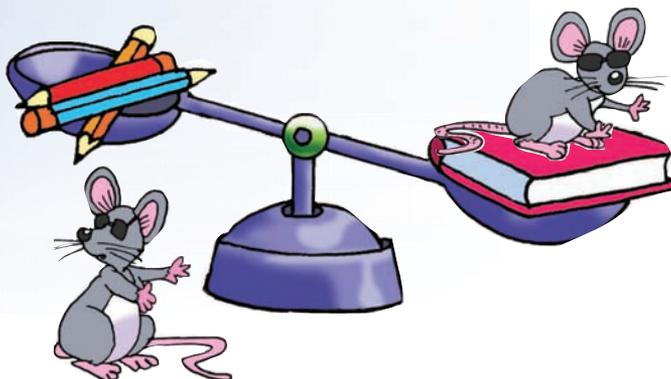
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11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93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

Gireidi ya

2



Bugu iyi ndi ya:



TSHIVENĐA

Bugu ya

2



Nomboro 50 – 99

Khalarani zwitendeledzi zwa 58.



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

$$\begin{array}{r} 60 \\ + 8 \\ \hline 68 \end{array}$$

=

$$\begin{array}{r} 80 \\ + 6 \\ \hline \end{array}$$

=

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

=

$$\begin{array}{r} 70 \\ + 1 \\ \hline \end{array}$$

=

$$\begin{array}{r} 90 \\ + 5 \\ \hline \end{array}$$

=

$$\begin{array}{r} 60 \\ + 9 \\ \hline \end{array}$$



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

furarumalo

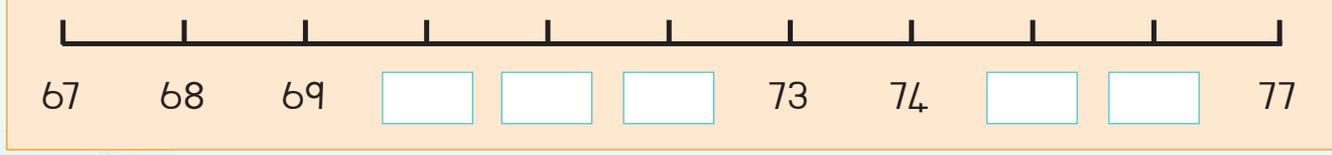
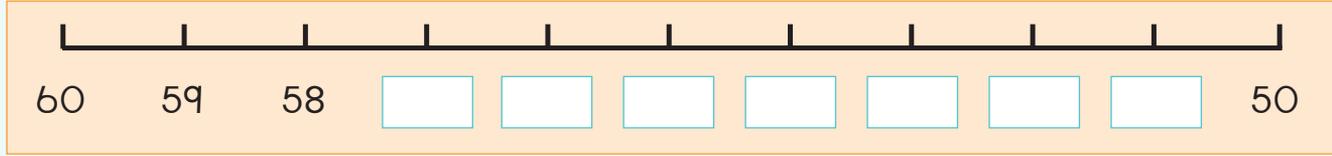
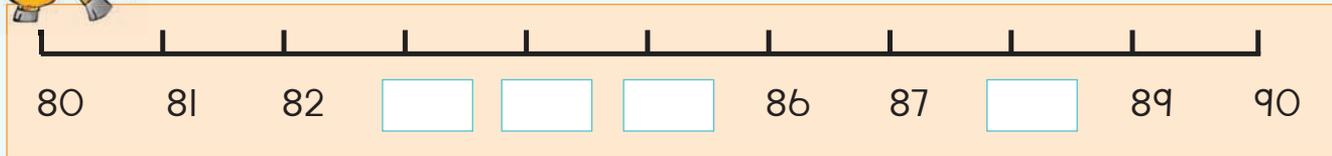


Nwalani phindulo dzaṅu dza zwi re afho ntḥa nga maipfi:

Ṭhukhu		Nomboro	Khulwane	
		55		
		63		
		88		
		95		
		71		



Fhedzisani mitalombalo iyi.



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

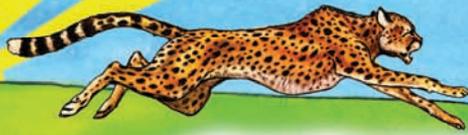


Teacher: _____

Sign: _____

Date: _____

66



Nomboro 100 – 150

Deithi:

Themo ya 3



Khalarani zwitendeledzi zwa 139.

○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	1 0 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	3 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	9
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
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○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	



Nwalani nomboro ya:

$\begin{array}{r} 100 \\ 20 \\ 8 \\ \hline 128 \end{array}$ <p>100 + 20 + 8 = 128</p>	$\begin{array}{r} 100 \\ 40 \\ 9 \\ \hline \end{array}$ <p>=</p>	$\begin{array}{r} 100 \\ 40 \\ 2 \\ \hline \end{array}$ <p>=</p>
$\begin{array}{r} 100 \\ 50 \\ \hline \end{array}$ <p>=</p>	$\begin{array}{r} 100 \\ 20 \\ 7 \\ \hline \end{array}$ <p>=</p>	$\begin{array}{r} 100 \\ 30 \\ 5 \\ \hline \end{array}$ <p>=</p>



Ndi nomboro ifhio i no da vhukati ha:

103 na 105? _____

139 na 141? _____

120 na 122? _____

150 na 148? _____

146 na 148? _____

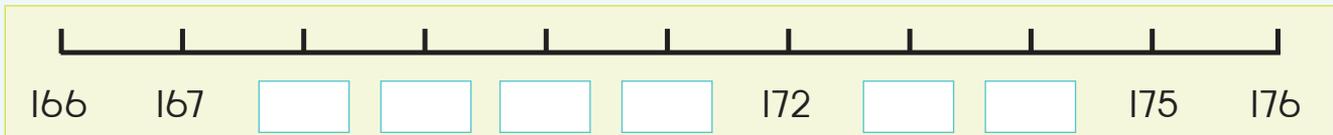
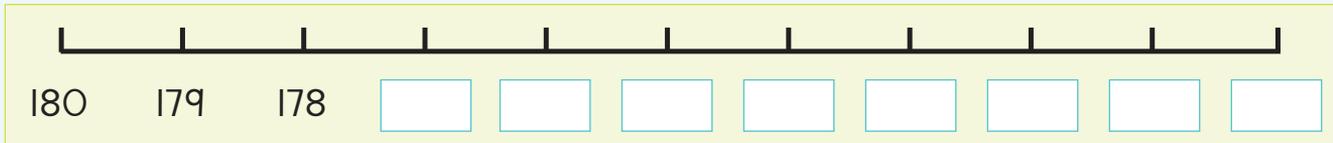
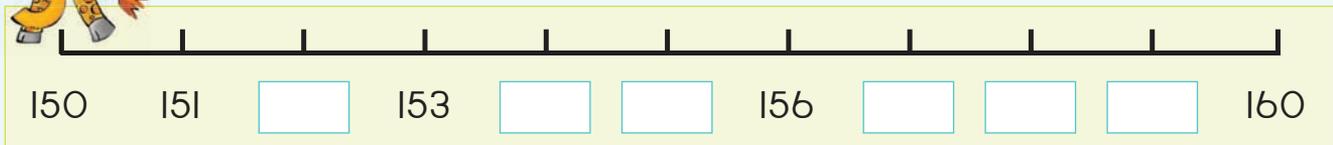


Nwalani nomboro mbili dzine dza vha
tshukhu na mbili dzine dza vha khulwane kha ye ya newa.

Tshukhu	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 didzhiti dzi no vhumba nomboro idzi tharu.
Dzi nambatedzeni haf ha dzi tshi tevhekana u bva kha tshukhusa u ya kha khulwanesa.



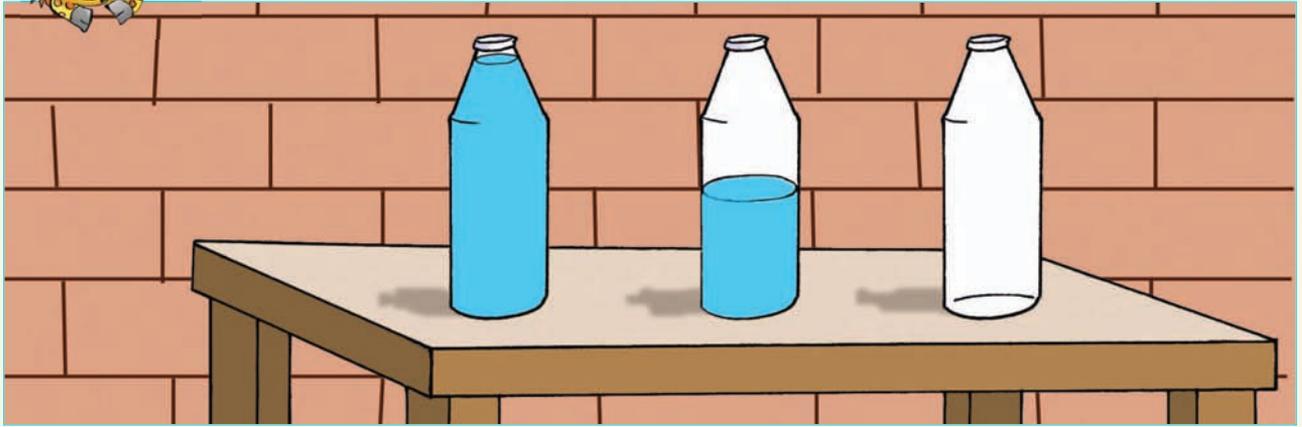
Teacher: _____

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Date: _____

Ḑala, denga, a tshi na tshithu

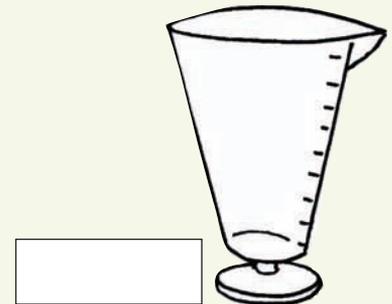
Ambani nga mabodelo a re nṱha ha ṱafula ya mugudisi.



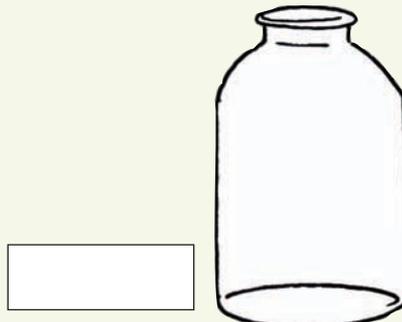
Bulani uri tshifaredzi tsho ḑala, tshi denga kana a tshi na tshithu.



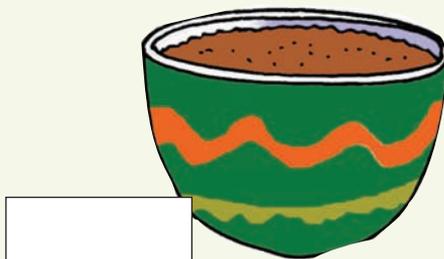


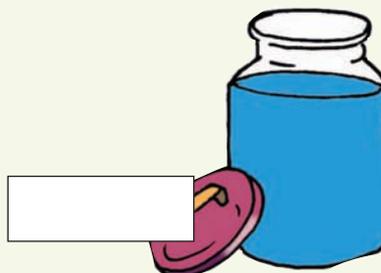




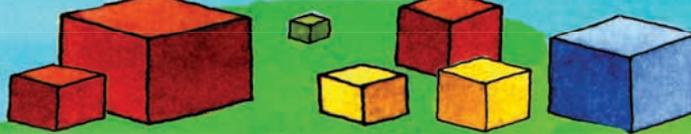












Khalarani ni tshi sumbedza uri hu na zwilugi zwingafhani kha zwifaredzi (midzio).

Tsho dala	Ndi denga	A tshi na tshithu



Olani zwifaredzi zwanu inwi muṅe. Olani zwa 3 zwi no nga zwenezwi. Tshifaredzi tshiṅwe na tshiṅwe tsha fara litha dza 4. Zwi sumbedzeni.

Tsho dala	Ndi denga	A tshi na tshithu



Ndi tshifaredzi tshifhio tshi no hwala zwinzhi.



Teacher: _____

Sign: _____

Date: _____

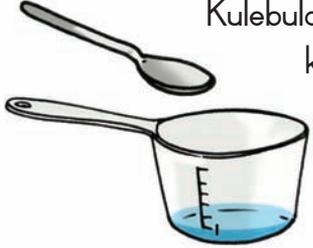


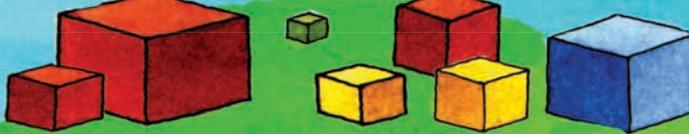
Khaphasithi hafhu

Lavhelesani zwifanyiso. Vhana vha khou ita mini.



Lebula dzi do dadza dzhege u swika ngafhi? Khaḵarani.

 <p>Kulebula kuḵuku ku dadza khaphu u swika hafha.</p>	
	
	



Ndi khaphu nngana dza maḡi dzine na ḡo ṭoḡa uri ni ḡadze khaphu ya u ela.



Makhulu vha shumisa khaphu dza 2 dza mafhi kha u ita phudini.
Arali vha inga kavhili (dabhula) risipi, vha ḡo shumisa mafhi mangafhani?



Teacher: _____
Sign: _____
Date: _____



Nomboro 150 – 170



Khalarani zwitendeledzi zwa 162.

Themo ya 3

○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	1 0 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	6 0
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○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
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○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
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Nwalani nomboro:

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Ndi nomboro ifhio i no da vhukati ha:

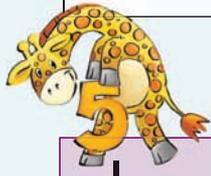
- 150 na 155 _____
- 158 na 162 _____
- 170 na 165 _____
- 163 na 167 _____
- 172 na 166 _____



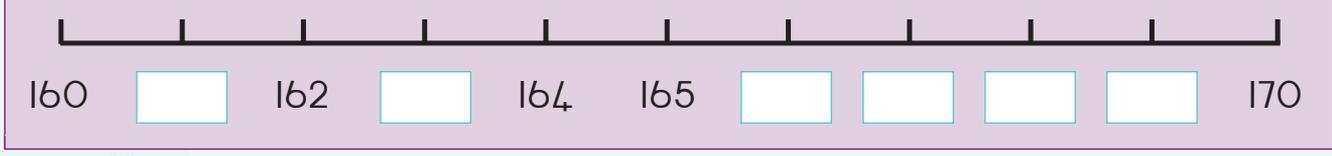
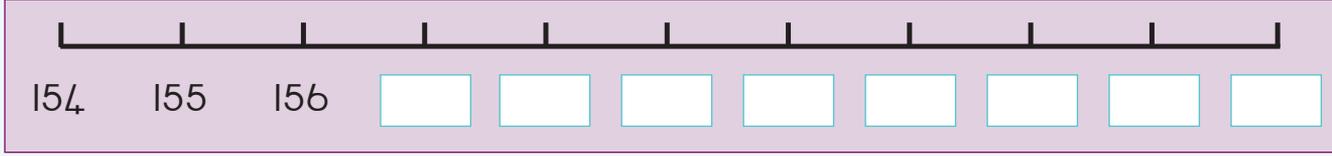
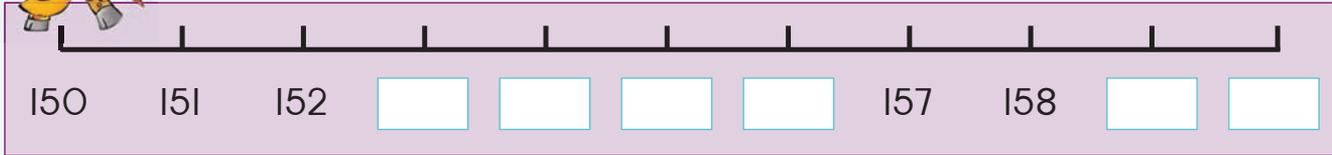


Ñwalani nomboro mbili dzine dza vha ṭhukhu na mbili dzine dza vha khulwane kha ye ya newa.

Ṭhukhu		Nomboro	Khulwane	
		155		
		168		
		151		
		162		
		160		



Fhedzisani mitalombalo iyi.



Gerani nomboro tharu dzi re vhukati ha 150 na 170 kha magazini kana guranḍa. Dzi nambatedzeni haf̣ha dzi tshi tevhekana u bva kha ṭhukhusa u ya kha khulwanesa.



Teacher: _____

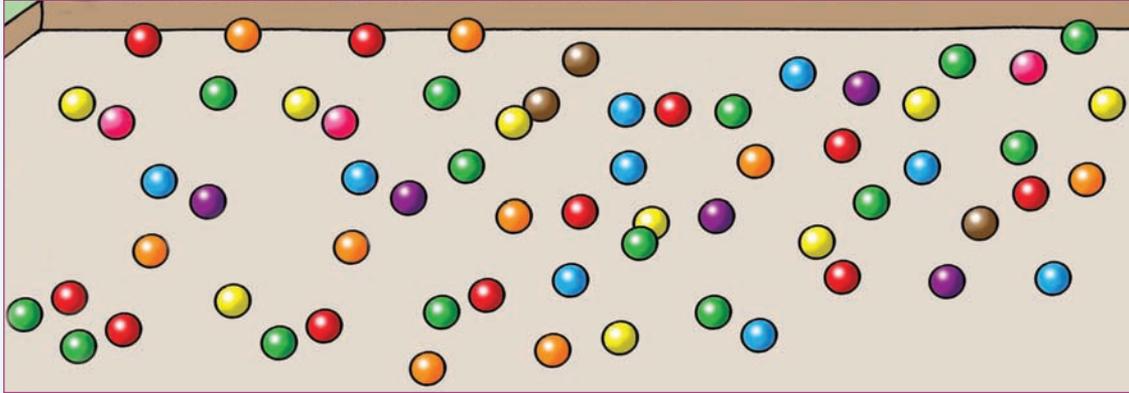
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U vhala na u anganya (0 – 100)

Anganyani ni vhale malungu.



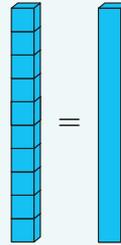
anganyani

rekanyani

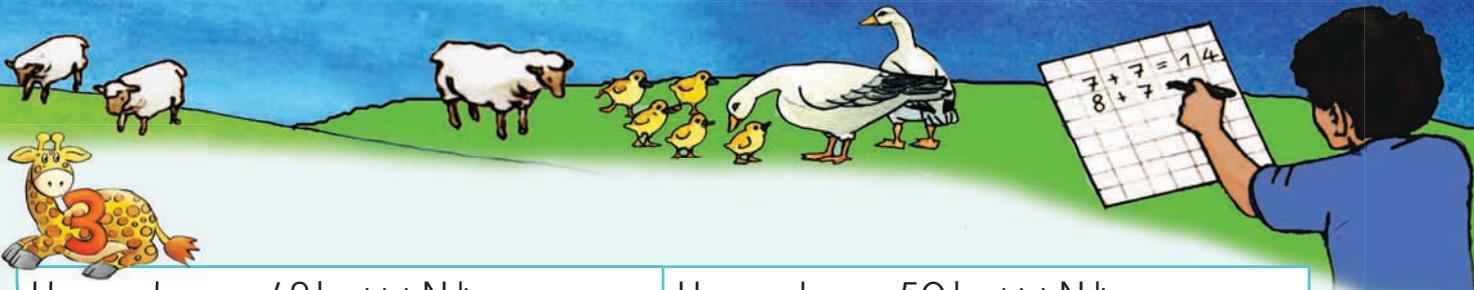
Themo ya 3



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



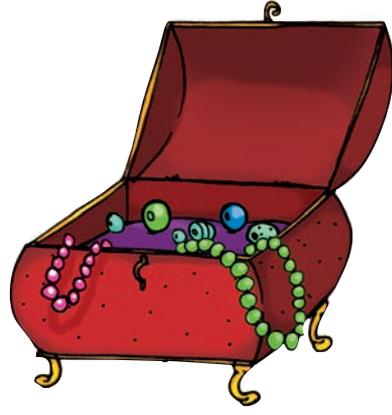
<p>anganyani <input type="text"/></p> <p>rekanyani <input type="text"/></p>	<p>anganyani <input type="text"/></p> <p>rekanyani <input type="text"/></p>
<p>anganyani <input type="text"/></p> <p>rekanyani <input type="text"/></p>	<p>anganyani <input type="text"/></p> <p>rekanyani <input type="text"/></p>
<p>anganyani <input type="text"/></p> <p>rekanyani <input type="text"/></p>	<p>anganyani <input type="text"/></p> <p>rekanyani <input type="text"/></p>



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?



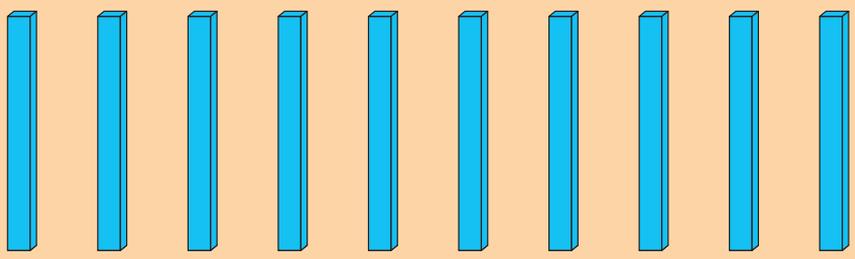
Hu na malungu a 100 bogisini. Ndi mangana a sa vhonali?





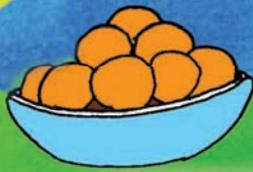
Ni nga zwi shuma nga luvhilo lungafhani?

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





Teacher: _____
 Sign: _____
 Date: _____



Data inwe hafhu



Nanguludzani maluvha. Olani nyolo yaṅu ya u zwi sumbedza. Nwalani tḥanganyelo tshibogisini.















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

KHII:



Fhindulani mbudziso dzi tevhelaho:

Hu na maluvha mangana a pephulu?

Hu na maluvha mangana matswuku?

Hu na maluvha mangana madala ?

Hu na maluvha mangana a pinki?

Hu na maluvha mangana a tšada?

Ndi muvhala ufhio wa maluvha une u sa takaleleswe?

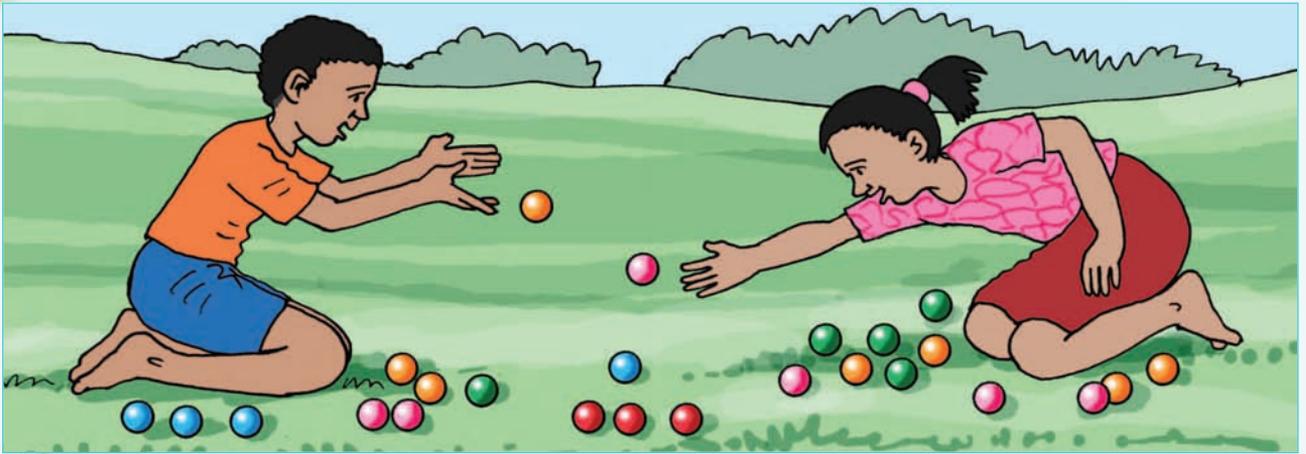
Ndi maluvha a muvhala ufhio une na u funesa?



Teacher: _____
 Sign: _____
 Date: _____



Muṅanganyo 0 – 50



Lavhelesani tshifanyiso ni ṅanganye mavhulu.

mitswuku	+	ya lutombo	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
midala	+	ya lutombo	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
ya pinki	+	ya lutombo	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
midala	+	ya tshitopana	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
mitswuku	+	midala	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>



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

<table border="1"> <tr><td>2</td></tr> <tr><td>1 0</td></tr> </table>	2	1 0	<table border="1"> <tr><td>5</td></tr> <tr><td>2 0</td></tr> </table>	5	2 0	<table border="1"> <tr><td>3</td></tr> <tr><td>3 0</td></tr> </table>	3	3 0	<table border="1"> <tr><td>7</td></tr> <tr><td>4 0</td></tr> </table>	7	4 0
2											
1 0											
5											
2 0											
3											
3 0											
7											
4 0											
$7 + 40 = 47$	$10 + 2 = 12$	$20 + 3 = 23$	$3 + 30 = 33$								



Tanganyani:

$$10 + 3 = \square$$

$$30 + 2 = \square$$

$$20 + 5 = \square$$

$$30 + 7 = \square$$

$$40 + 1 = \square$$

$$20 + 6 = \square$$

$$10 + 4 = \square$$

$$40 + 8 = \square$$

$$30 + 9 = \square$$



Tanganyani:

16 + 13

$$\begin{array}{r} 6 \\ 10 \end{array} + \begin{array}{r} 3 \\ 10 \end{array} = \begin{array}{r} 9 \\ 20 \end{array}$$

$$16 + 13 = 29$$

24 + 12

$$\begin{array}{r} 4 \\ 20 \end{array} + \begin{array}{r} 2 \\ 10 \end{array} = \begin{array}{r} \square \\ \square \end{array}$$

$$\square + \square = \square$$

37 + 11

$$\begin{array}{r} 7 \\ 30 \end{array} + \begin{array}{r} 1 \\ 10 \end{array} = \begin{array}{r} \square \\ \square \end{array}$$

$$\square + \square = \square$$

25 + 23

$$\begin{array}{r} 5 \\ 20 \end{array} + \begin{array}{r} 3 \\ 20 \end{array} = \begin{array}{r} \square \\ \square \end{array}$$

$$\square + \square = \square$$

36 + 12

$$\begin{array}{r} 6 \\ 30 \end{array} + \begin{array}{r} 2 \\ 10 \end{array} = \begin{array}{r} \square \\ \square \end{array}$$

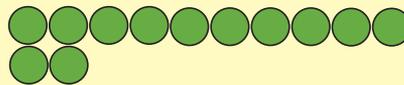
$$\square + \square = \square$$

28 + 21

$$\begin{array}{r} 8 \\ 20 \end{array} + \begin{array}{r} 1 \\ 20 \end{array} = \begin{array}{r} \square \\ \square \end{array}$$

$$\square + \square = \square$$

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



Thanganyelo ndi vhugai?

Teacher: _____
Sign: _____
Date: _____



Muṅanganyo 0 – 75

Themo ya 3



Ṭhanganyelo ya tshibuḷoko tshiṅwe na tshiṅwe ndi vhugai?

$\begin{matrix} 1 & 10 \\ 5 & 10 \end{matrix}$	$\begin{matrix} 6 & 20 \\ 2 & 10 \end{matrix}$	$\begin{matrix} 3 & 20 \\ 5 & 30 \end{matrix}$	$\begin{matrix} 4 & 40 \\ 4 & 30 \end{matrix}$
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Ṭanganyani.

$12 + 11$

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

$23 + 41$

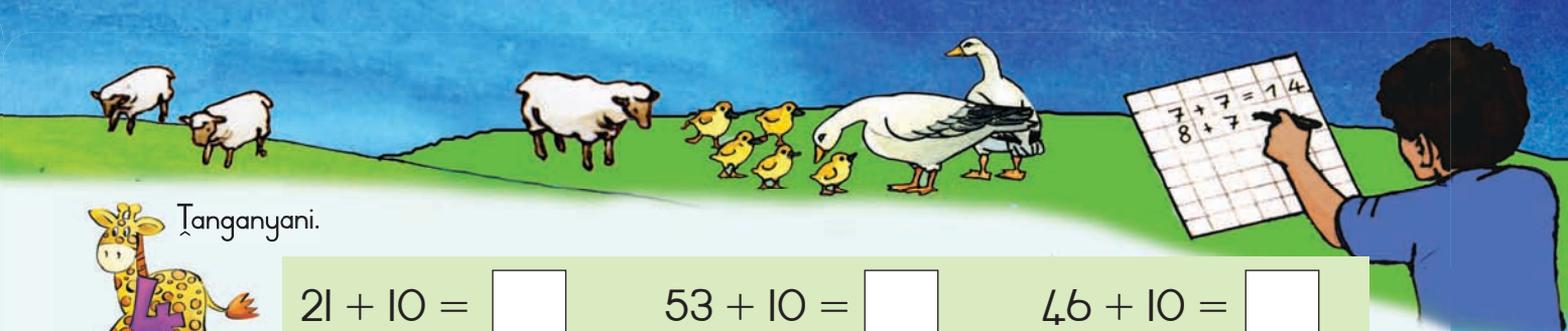
<input type="text"/>	<input type="text"/>	+	<input type="text"/>	<input type="text"/>			
=	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>
=	<input type="text"/>	+	<input type="text"/>				
=	<input type="text"/>						



Fhedzisani:



28	+	11	=	28	+	10	+	1	=	38	+	1	=	39
34	+	12	=	34	+	10	+	2	=	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
43	+	23	=	43	+	20	+	3	=	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
45	+	23	=	45	+	20	+	3	=	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
56	+	11	=	56	+	10	+	1	=	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>



Tanganyani.

$21 + 10 = \square$

$53 + 10 = \square$

$46 + 10 = \square$

$68 + 10 = \square$

$37 + 10 = \square$

$42 + 10 = \square$

$74 + 10 = \square$

$19 + 10 = \square$

$55 + 10 = \square$

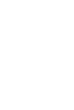


Thanganyelo ya 47 na 6 ndi?

Olani tshifanyiso ni tshi sumbedza phindulo yanu.



Itani mbalomaipfi ya inwi muṅe ni tshi shumisa zwifanyiso.



Teacher: _____

Sign: _____

Date: _____



Muṭanganyo na muṭuso: 0 – 75

Themo ya 3



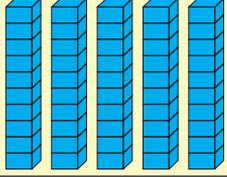
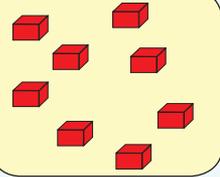
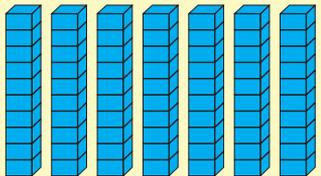
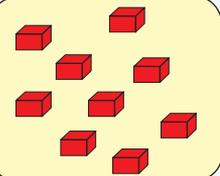
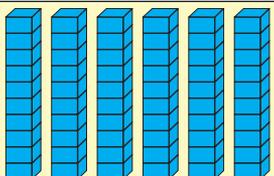
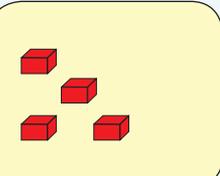
Livhanyani magaraṭa. Talani mutalo u bva kha ṭhanganyelo u tshi ya kha garaṭa lone.

<div style="background-color: red; color: white; padding: 5px; width: 40px; margin: 0 auto;">9</div> <div style="background-color: blue; color: white; padding: 10px; width: 100px; margin: 5px auto;">6 0</div>	<div style="background-color: red; color: white; padding: 5px; width: 40px; margin: 0 auto;">5</div> <div style="background-color: blue; color: white; padding: 10px; width: 100px; margin: 5px auto;">5 0</div>	<div style="background-color: red; color: white; padding: 5px; width: 40px; margin: 0 auto;">4</div> <div style="background-color: blue; color: white; padding: 10px; width: 100px; margin: 5px auto;">7 0</div>	<div style="background-color: red; color: white; padding: 5px; width: 40px; margin: 0 auto;">7</div> <div style="background-color: blue; color: white; padding: 10px; width: 100px; margin: 5px auto;">4 0</div>
--	--	--	--

$7 + 40 = 47$	$60 + 9 = 69$	$50 + 5 = 55$	$4 + 70 = 74$
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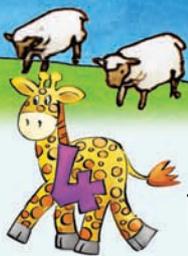
Ñwalani mbalo ya zwi tevhelaho ni dzhenise phindulo.

		<input style="width: 40px; height: 20px;" type="text"/> + <input style="width: 40px; height: 20px;" type="text"/> = <input style="width: 40px; height: 20px;" type="text"/>
		<input style="width: 40px; height: 20px;" type="text"/> + <input style="width: 40px; height: 20px;" type="text"/> = <input style="width: 40px; height: 20px;" type="text"/>
		<input style="width: 40px; height: 20px;" type="text"/> + <input style="width: 40px; height: 20px;" type="text"/> = <input style="width: 40px; height: 20px;" type="text"/>



Tanganyani.

$60 + 4 = \square$	$30 + 2 = \square$
$40 + 9 = \square$	$50 + 4 = \square$
$20 + 8 = \square$	$10 + 7 = \square$
$70 + 5 = \square$	$70 + 8 = \square$
$50 + 6 = \square$	



Tanganyani.

$56 + 15$

$56 + 15 = 71$

$34 + 17$

$\square + \square = \square$

$48 + 13$

$\square + \square = \square$

$63 - 41$

$\square - \square = \square$

$75 - 51$

$\square - \square = \square$

$72 - 49$

$\square - \square = \square$



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

Themo ya 3



Maipfi aya a nga ni thusa:

- mabogisi
- bola
- silinda

Ni kha di elelwa uri ndi zwiwumbegode?

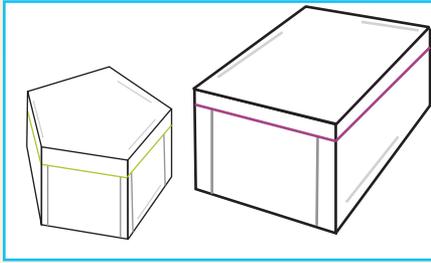


Topolani bola, mabogisi na silinda nge na n'wala ipfi ilo nga fhasi ha tshinwe na tshinwe tshazwo.

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



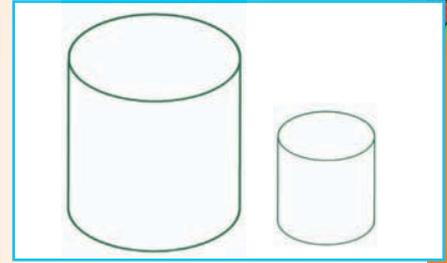
Khalarani zwithu zwi re zwiṭuku nga muvhala mudala.



mabogisi



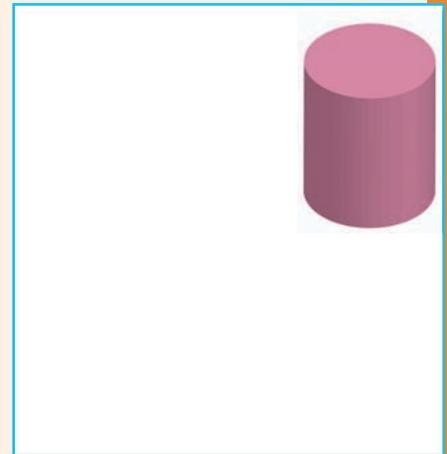
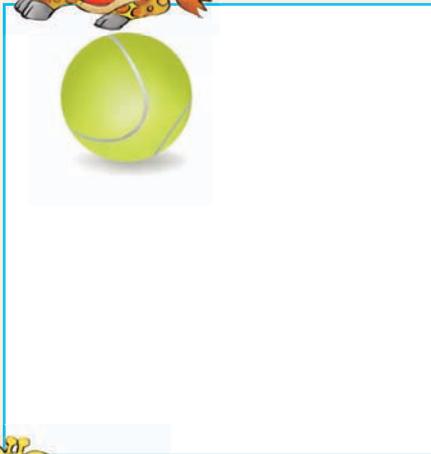
bola



silinda



Olani tshithu tshi re tshihulwane.

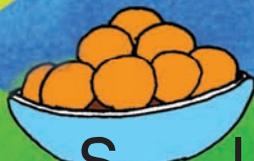


Ni khou tama u dzhenisa mpho ya mme aṅu ya ḍuvha ḷa mabebo kha tshifaredzi. Ni tea u ṭalutshedza murengisi uri ni khou ṭoda tshithuḍe. Ni nga tshi ṭalutshedza hani?





Teacher: _____
 Sign: _____
 Date: _____



Swendani, kunguluwani ni fhaṭe nga zwithu zwa 3-D

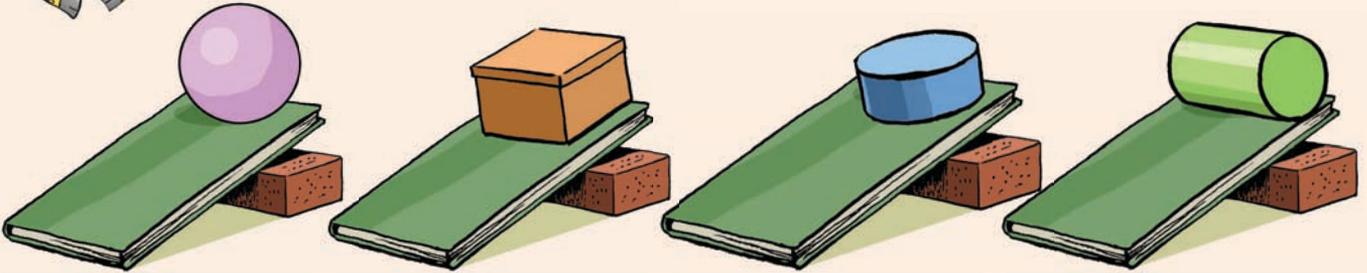


Mudededzi waṅu vha ḁo ita nyito iyi na inwi i ya phurathikhaḽa u itela u vhona uri zwi tevhelaho zwi nga dzula (baḽantsa) naa:

- Bogisi nṽha ha bogisi.
- Bola nṽha ha bogisi.
- Bola nṽha ha bola.
- Mabogisi mavhili o ṽhophana.



Mabogisi, bola na siḽinda zwi nga kunguluwa kana zwa swenda. Mudededzi waṅu vha ḁo ni ṅea zwithu zwi tevhelaho uri ni vhone arali zwi tshi kunguluwa kana u swenda. Nga murahu ha u ita nyito iyi lwa phurathikhaḽa, ambani uri izwi zwithu zwi ḁo kunguluwa kana u swenda naa.



Wanani zwifanyiso zwa zwithu zwine zwa nga kunguluwa kana zwa swenda kha magazini ni zwi nambatedze hafha.

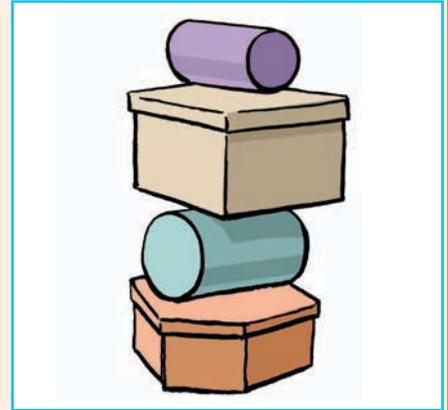
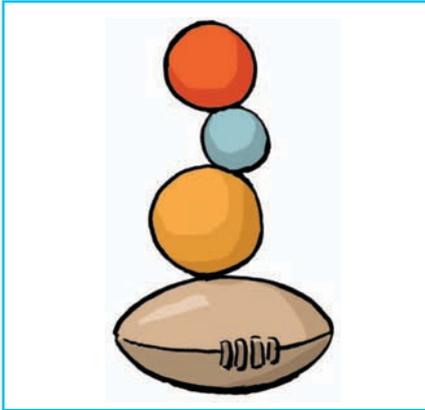
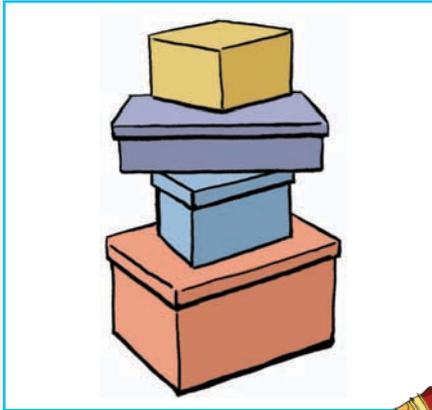
kunguluwa

swenda

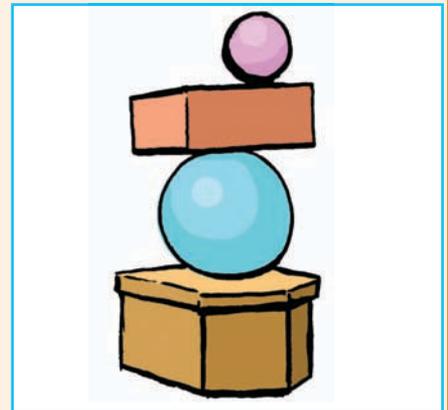
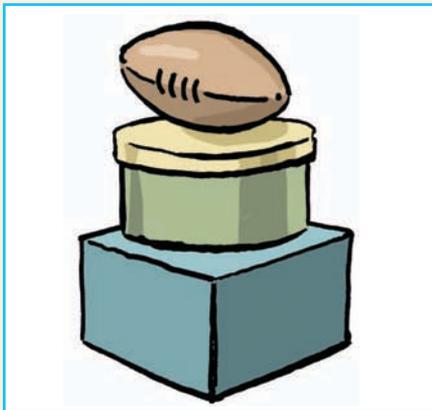




Mudededzi waṅu vho ni fha zwibuloko zwine na nga fhaṭa ngazwo thawara dzo fhambananaho. Inwi na khonani yaṅu no humbula u fhaṭa thawara nga mabogisi, bola na silinda. Hetshi tshithu ndi tshone tshe na fhaṭa kana na edzisa u fhaṭa. Ambani uri zwo konadzea naa kana hai.

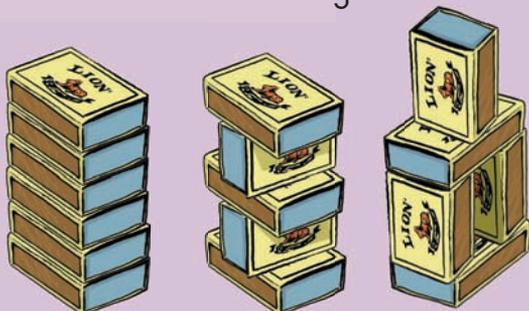


Hezwi zwi ḡo konadzea



Dziṅwe dza thawara dza zwibogisi zwa metshisi khedzi.

Ni tea u vha na:
Zwibogisi zwa metshisi



Zwine na tea u ita:
Zwino lingedzani u fhaṭa thawara ya zwibogisi zwa metshisi i ye nṯha nga hune na nga kona ni sa shumisi guluu.



Teacher:
Sign:
Date:



Muṭanganyo na muṭuso hafhu 0 – 75

Ṭanganyani nomboro dzi re tshibuḷokoni tshinṭwe na tshinṭwe ni nṭwale phindulo.



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



Ṭanganyani.

$$52 + 21$$

$$43 + 28$$



Fhedzisani.

$$28 + 31 = 28 + 30 + 1 = 58 + 1 = 59$$

$$45 + 32 = 45 + 30 + 2 = \square + \square = \square$$

$$52 + 14 + 52 + 14 + 52 + 14 + 52 + 14 = \square + \square = \square$$



Ṭanganyisani.

$$41 + 10 = \square$$

$$44 + 10 = \square$$

$$71 + 10 = \square$$



Ṭhanganyelo ya 36 na 24 ndi _____.
Olani tshifanyiso ni tshi sumbedza phindulo yaṅu.



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

5	70	2	60	7	50	9	30
3	40	1	20	6	10	5	10



Nwalani mbalo ya zwi tevhelaho.

- =

- =



Tusani:

$$65 - 23$$

$$72 - 29$$



Bvisani

$$61 - 10 = \square$$

$$42 - 10 = \square$$

$$37 - 10 = \square$$



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



Ho sala mimavhulu mingana? _____

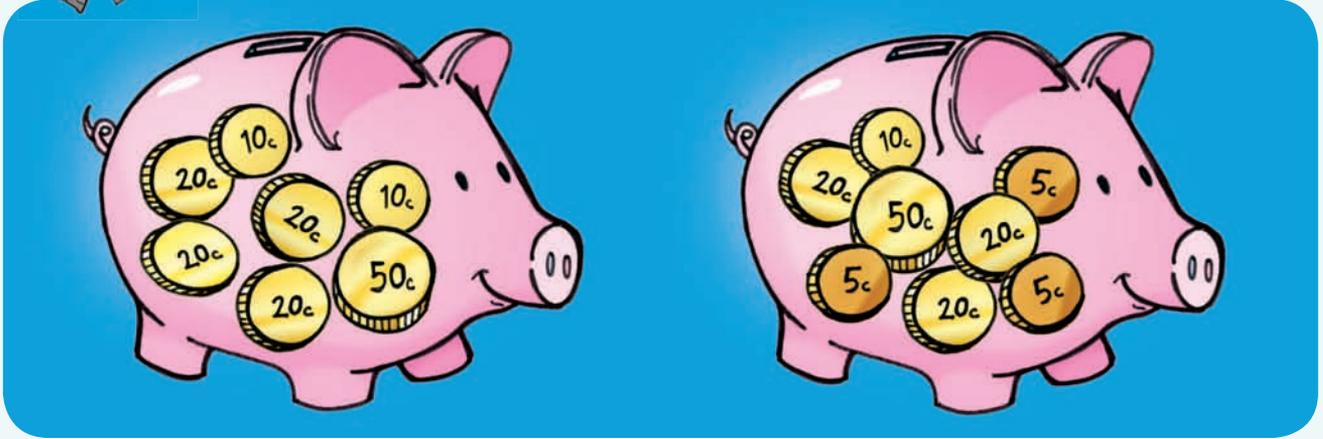
Teacher: _____
 Sign: _____
 Date: _____



Tshelede hafhu



Ndo vhulunga vhugai?

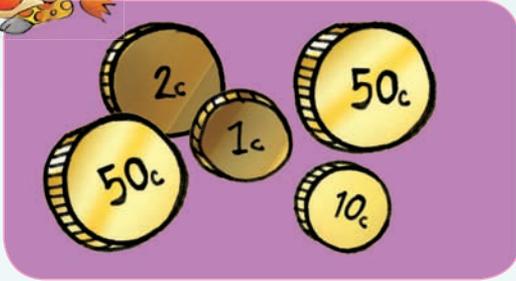


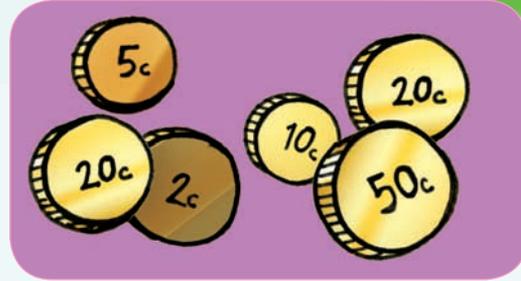
Shumisani khoini dzi no bva kha Tshigeriwa 3 ni nambatedze mitengo yone hafha.

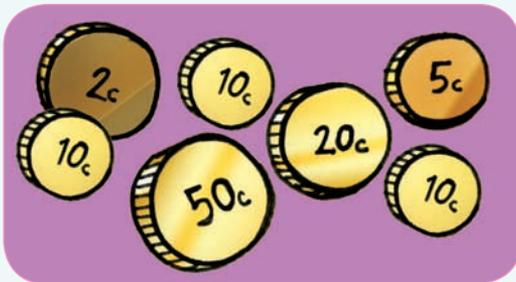
	
	
	



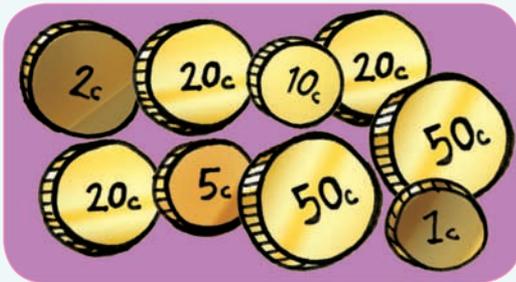
Ndi masenthe mangana?

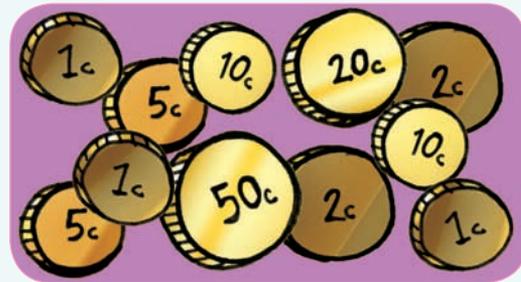


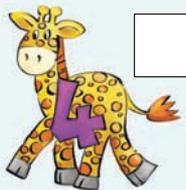












Mbalo dza maipfi:

Suzy u na 100c. Khotsi anga vha mu engedza nga 50c. U na vhugai yo t̄angana yo t̄he? Olani tshifanyiso tshi no sumbedza phindulo yaṅu.

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



Teacher: _____
 Sign: _____
 Date: _____



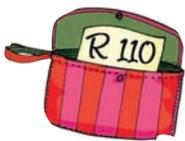
Tshelede ya dzinoutu hafhu

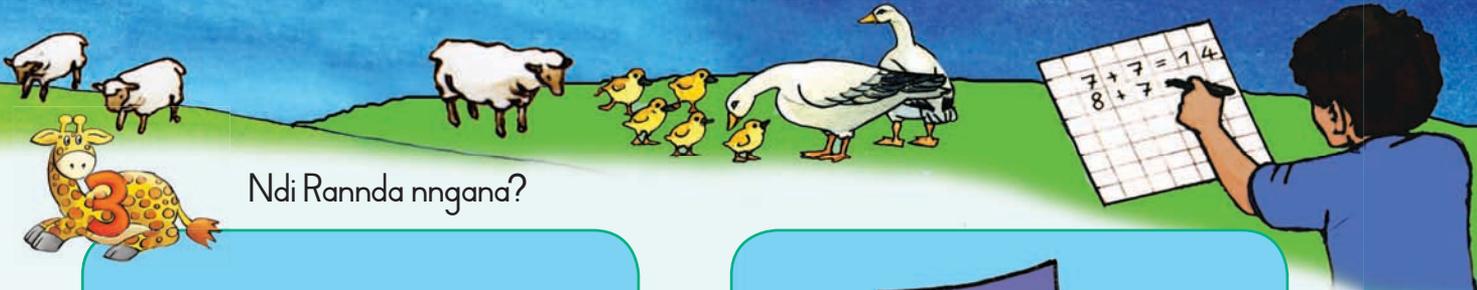


Ndi na vhugai pheseni?

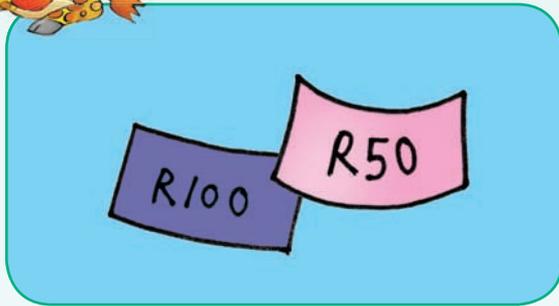


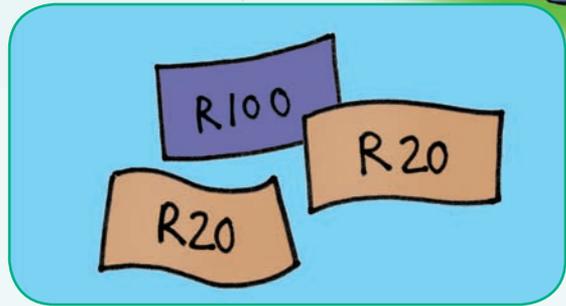
Shumisani dzinoutu dzi no bva kha Tshigeriwa 3 ni nambatedze mitengo yone hafha.

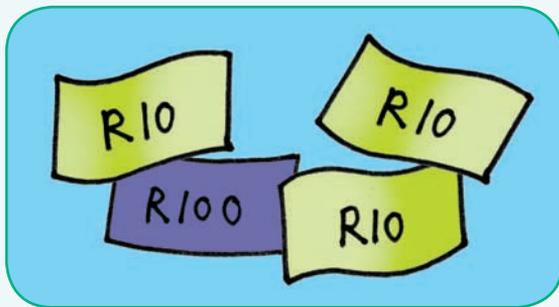


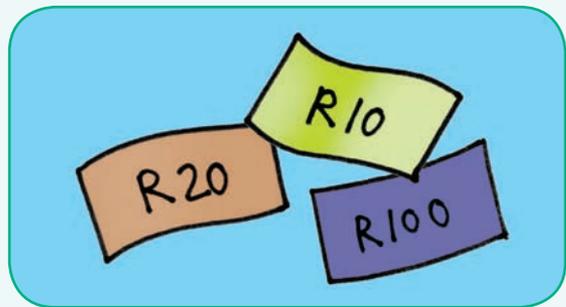


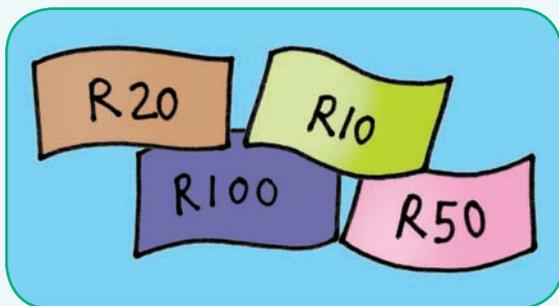
Ndi Randa nngana?

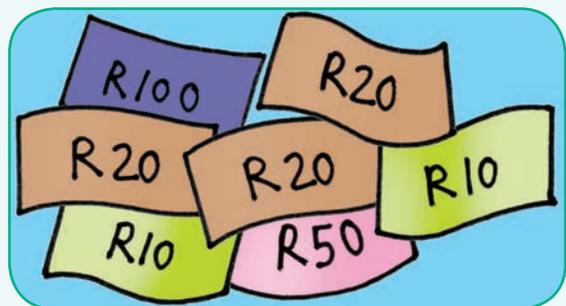


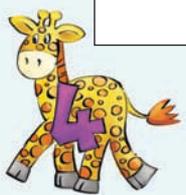












Mbalo dza maipfi:

Mukomana wanga u na R100. Ndi na R50 nahone kukaladzi kwanga ku na R20. Ri na vhugai yo tanga yothe? _____

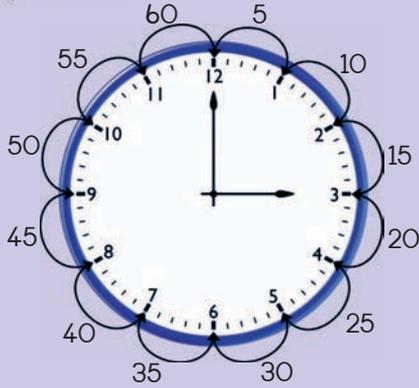
Ndi na R160. Nda renga hemmbe ya R50. Ndo salelwa nga vhugai? _____



Teacher: _____
 Sign: _____
 Date: _____

Phetheni dza zwifhinga

Ambani nga watshi.



Watshi i na maṅanga mavhili.

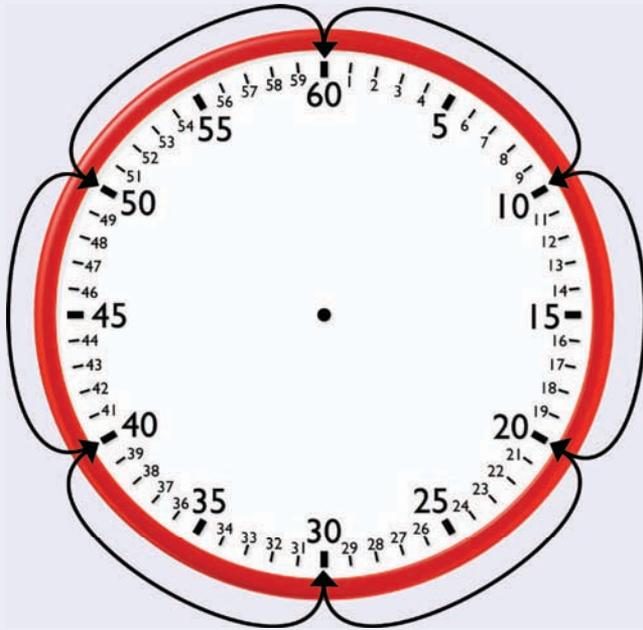
Luṅanga lupfufhi lu ri sumbedza awara.

Luṅanga lulapfu lu ri sumbedza miminete.

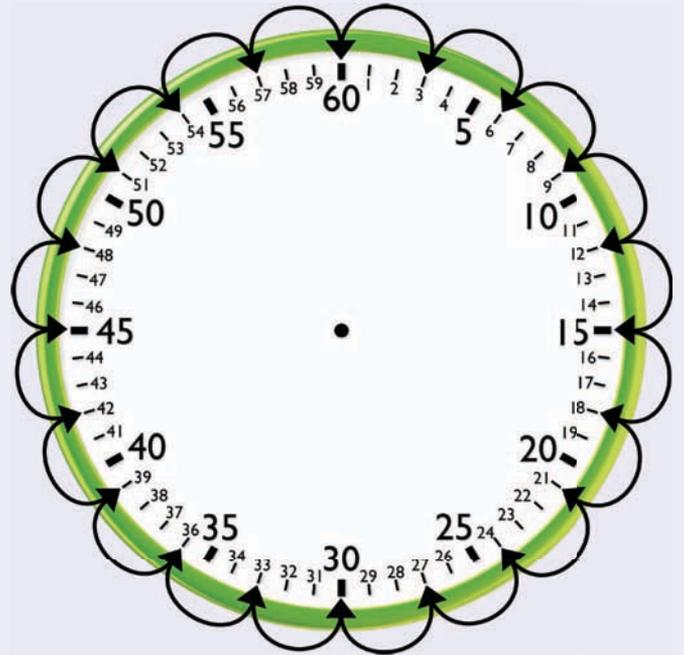
Afha ri ri ndi awara ya 3 (ya vhuraru)



Phetheni ndi ifhio? Lavhelesani misevhe tshifhinga tshoṭhe ni riwale phetheni ya hone.



10 —, —, —, —, —,



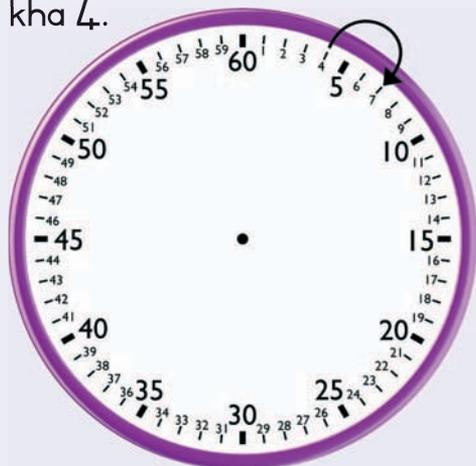
3, —, —, —, —, —, —, —, —,
 —, —, —, —, —, —, —, —,
 —, —, —, —,



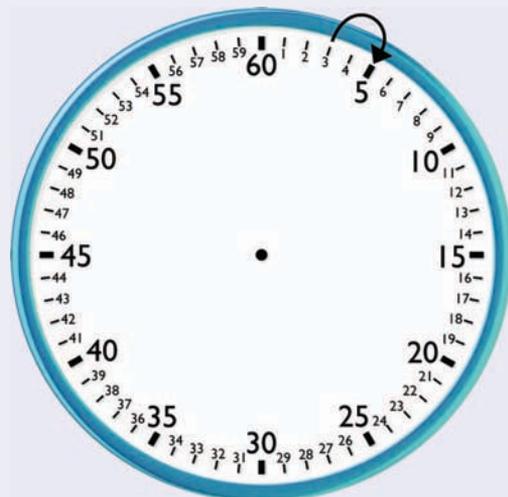
Sumbedzani phetheni ni tshi shumisa misevhe.



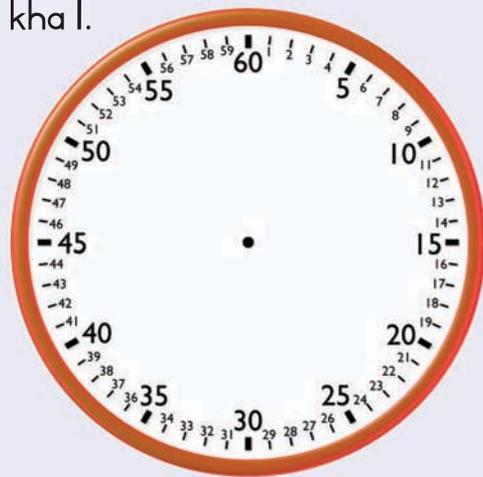
Vhalani nga tharutharu ni tshi thoma kha 4.



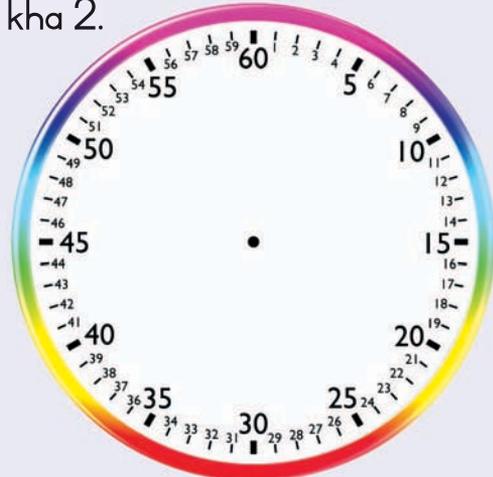
Vhalani nga mbilimbili ni tshi thoma kha 3.



Vhalani nga mahumi ni tshi thoma kha 1.



Vhalani nga tharutharu 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.



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

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

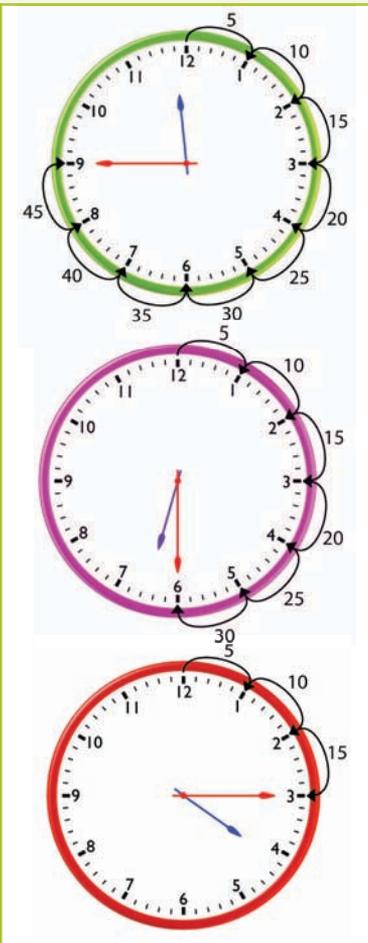
Ri ri ndi kotara u bva kha awara ya vhuraru.

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

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



Ndi tshifhingade?



Luṅanga lupfufhi lu ri sumbedza _____.

Luṅanga lulapfu lu ri sumbedza uri ndi _____.

Ri ri ndi _____.

Luṅanga lupfufhi lu ri sumbedza _____.

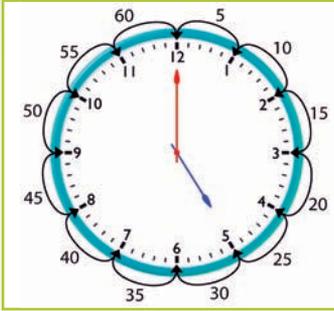
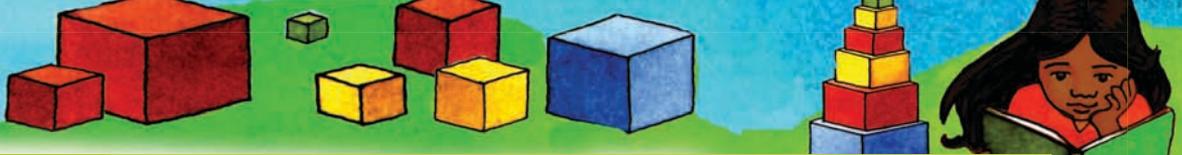
Luṅanga lulapfu lu ri sumbedza uri ndi _____.

Ri ri ndi _____.

Luṅanga lupfufhi lu ri sumbedza _____.

Luṅanga lulapfu lu ri sumbedza uri ndi _____.

Ri ri ndi _____.



Luṅanga lupfufhi lu ri sumbedza _____ .

Luṅanga lulapfu lu ri sumbedza uri ndi _____ .

Ri ri ndi _____ .

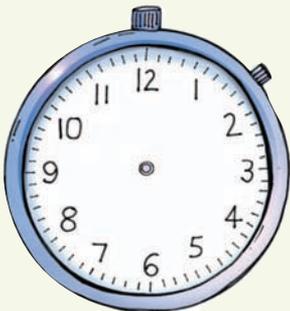


Olani luṅanga lulapfu na luṅanga lupfufhi.

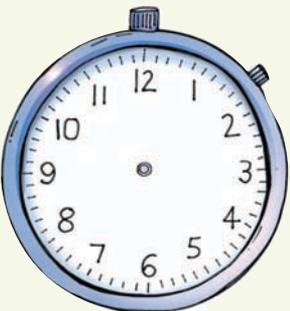
Kotara u bva kha awara ya vhuvhili.



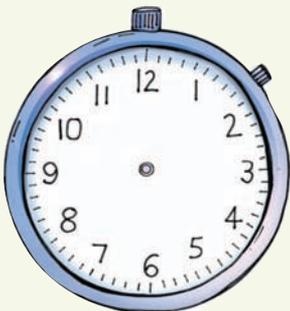
Hafu u bva kha awara ya vhuṭahe.



Awara ya vhuḑumi.



Kotara u ya kha awara ya vhurathi.



Ni ita mini nga itshi 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: _____

Miminete na awara

Deithi:



Ambani nga watshi.



Luṅanga lupfufhi lu tsini na 3.

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

Ndi miminete ya 25 u rangela luṅanga 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?



Luṅanga lupfufhi lwo ima kha _____.

Luṅanga lulapfu lwo ima kha _____.

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

Ri ri ndi _____ u ya kha _____.



Luṅanga lupfufhi lwo ima kha _____.

Luṅanga lulapfu lwo ima kha _____.

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

Ri ri ndi _____ u ya kha _____.

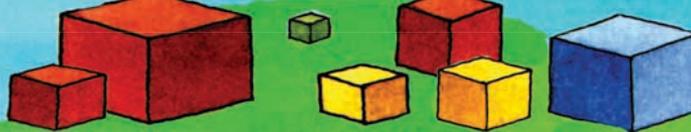


Luṅanga lupfufhi lwo ima kha _____.

Luṅanga lulapfu lwo ima kha _____.

Ndi _____ u rangela luṅanga 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 _____.

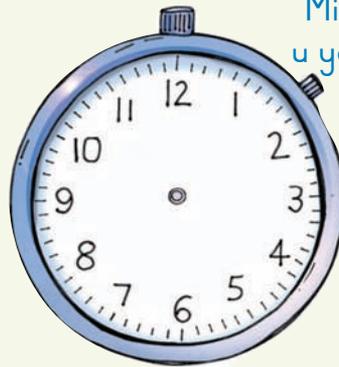


Olani lunanga lulapfu na lunanga lupfufhi.

Minete mițanu u ya kha awara ya vhumalo.



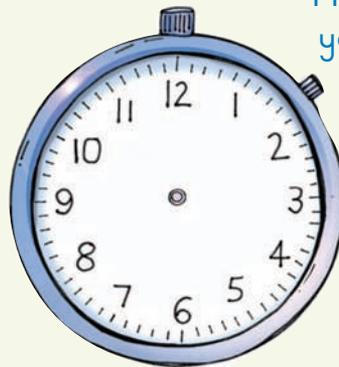
Minete ya fumbili u ya kha awara ya vhuraru.



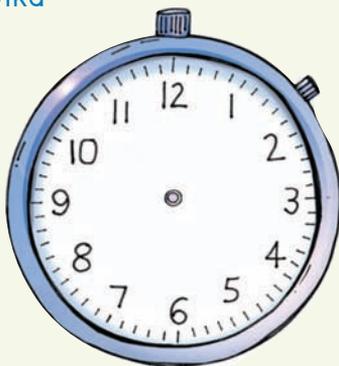
Minete mițanu u ya kha awara ya u thoma.



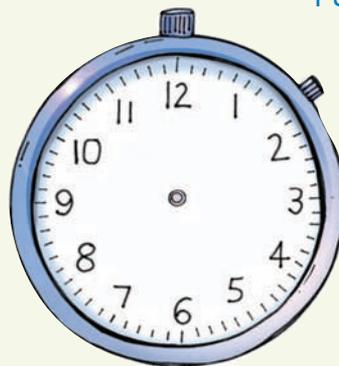
Minete ya fumi u ya kha awara ya rathi.



Fumiraru u swika kha sumbe.



Fumimbili u swika kha fumimbili.



Teacher: _____
Sign: _____
Date: _____



Muṭanganyo mudovhololwa (ndovhololo ya muṭanganyo)

Deithi:

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



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

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

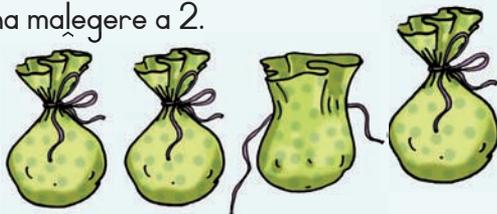
Ndi nga i ṅwala
 $2 + 2 + 2 = 6$ kana
 $3 \times 2 = 6$



Lavhelesani zwiputo zwa 3 zwi re na maḽegere:

- ṅwalani mbalo ya u ṭanganya ya tshiṅwe na tshiṅwe.
- ṅwalani mbalo ya muṭanganyo ya liṅwe na liṅwe.
- ṅwalani mbalo ya muandiso ya liṅwe na liṅwe.

Tshiputo tshiṅwe na tshiṅwe tsho vhoḽhiwaho
tshi na maḽegere a 2.

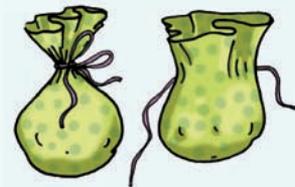


Fhungo: zwiḽwada zwivhili zwa 2

Mbalo ya muṭanganyo: $2 + 2 + 2 + 2 = \underline{\quad}$

Mbalo ya muandiso: $4 \times 2 = \underline{\quad}$

Tshiputo tshiṅwe na tshiṅwe tsho vhoḽhiwaho
tshi na maḽegere a 2.

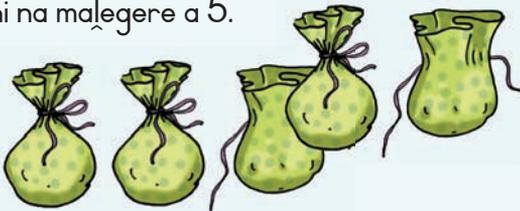


Fhungo: _____

Mbalo ya muṭanganyo: _____

Mbalo ya muandiso: _____

Tshiputo tshiṅwe na tshiṅwe tsho vhoḽhiwaho
tshi na maḽegere a 5.

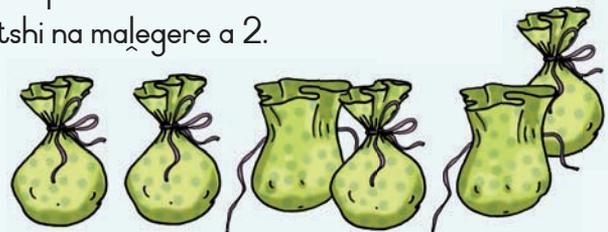


Fhungo: _____

Mbalo ya muṭanganyo: _____

Mbalo ya muandiso: _____

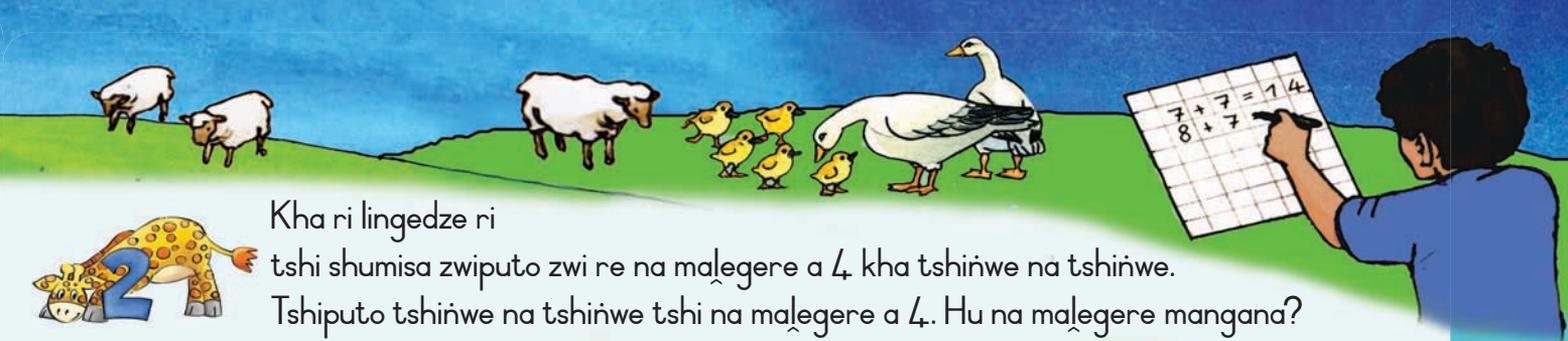
Tshiputo tshiṅwe na tshiṅwe tsho vhoḽhiwaho
tshi na maḽegere a 2.



Fhungo: _____

Mbalo ya muṭanganyo: _____

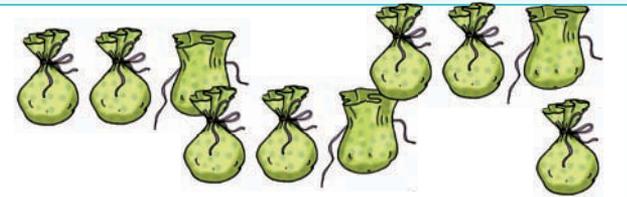
Mbalo ya muandiso: _____



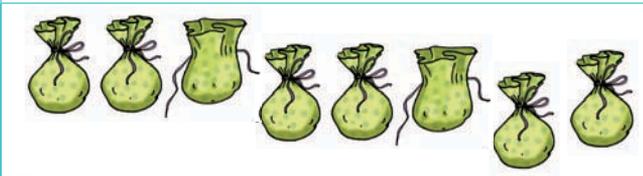
Kha ri lingedze ri tshi shumisa zwiputo zwi re na malegere a 4 kha tshinwe na tshinwe. Tshiputo tshinwe na tshinwe tshi na malegere a 4. Hu na malegere mangana?



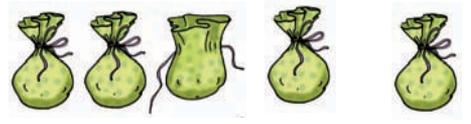
Fhungo: zwigwada zwa 7 zwa 4
 Mbaloyanganyo: $4 + 4 + 4 + 4 + 4 + 4 + 4 = 28$
 Mbaloyamwandiso: $7 \times 4 = 28$



Fhungo: _____
 Mbaloyanganyo: _____
 Mbaloyamwandiso: _____



Fhungo: _____
 Mbaloyanganyo: _____
 Mbaloyamwandiso: _____



Fhungo: _____
 Mbaloyanganyo: _____
 Mbaloyamwandiso: _____



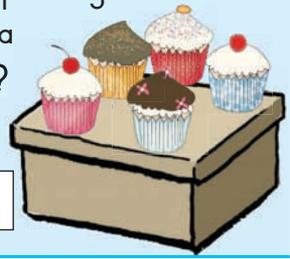
Fhedzisani thebulu yamwandiso.

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

Ndi namabogisi matanu a re namafini mbili kha linwe na linwe. Hu namafini nngana dzo tangana dzothe?



Ndi namabogisi mana a re namabogisi dza khaphu thanu kha linwe na linwe. Hu namabogisi dza khaphu nngana dzo tangana dzothe?



Ndi namabogisi mararu a re namabogisi nna kha linwe na linwe. Hu namabogisi nngana dzo tangana dzothe?



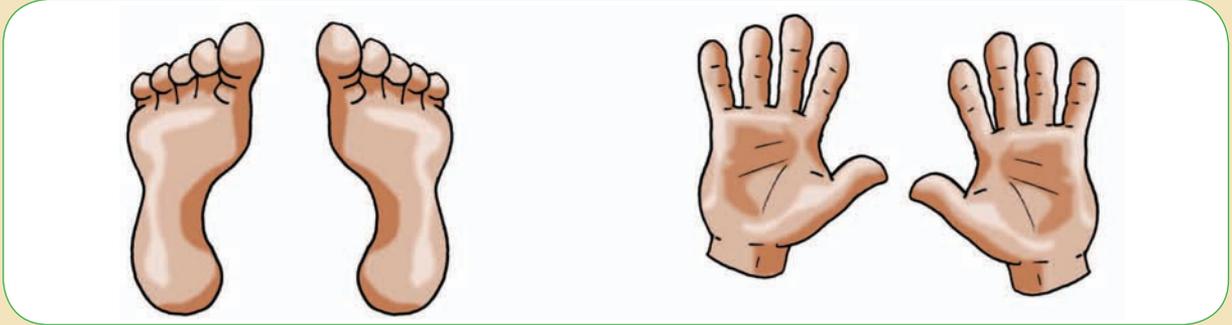
Teacher: _____
 Sign: _____
 Date: _____



Andisani nga 5

Mulenzhe muthihi u na zwickunwe zwa 5.

Tshanda tshithihi tshi na minwe ya 5.



Tshivhalogute tsha zwickunwe
ndi tshifhio?

Tshivhalogute tsha minwe
ndi tshifhio?



Fhedzisani zwi tevhelaho:



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

Zwickunwe kha Milenzhe
mulenzhe muthihi



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

Minwe kha Zwanda
tshanda tshithihi



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

Zwickunwe kha Milenzhe
mulenzhe muthihi



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

Minwe kha Zwanda
tshanda tshithihi



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

Zwickunwe kha Milenzhe
mulenzhe muthihi



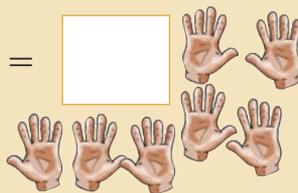
$$\square \times \square = \square$$

Minwe kha Zwanda
tshanda tshithihi



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

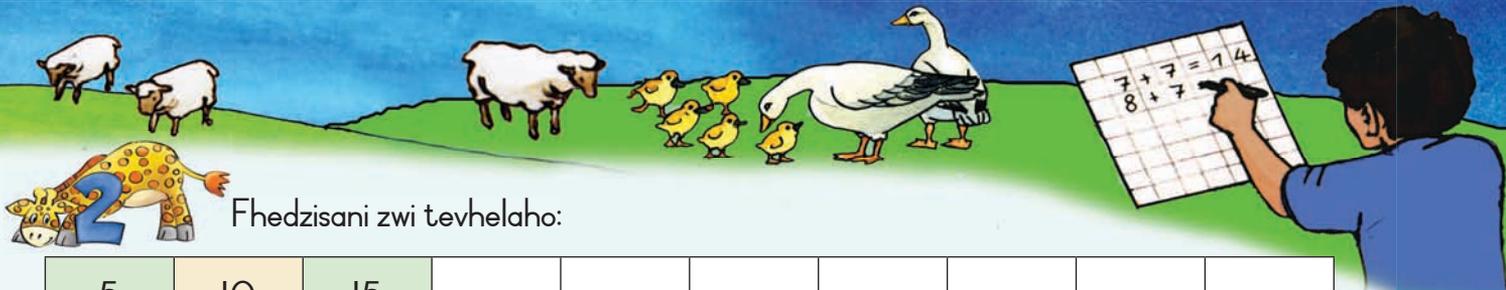
Zwickunwe kha Milenzhe
mulenzhe muthihi



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

Minwe kha Zwanda
tshanda tshithihi





Fhedzisani zwi tevhelaho:

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

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



Fhedzisani zwi tevhelaho:

$5 \times$  = maapula a

$4 \times$  = miomva ya

$6 \times$  = miomva ya

$7 \times$  = maapula a



Fhedzisani zwi tevhelaho:

$15 \times 5 = \square$
 $\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 5$
 $= \begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 5 \\ \hline \end{array} \times 5$
 $= \begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 5 + \begin{array}{|c|} \hline 5 \\ \hline \end{array} \times 5$
 $= 50 + 25$
 $= 75$

$12 \times 5 = \square$
 $\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 5$
 $= \square + \square \times \square$
 $= \square \times \square + \square \times \square$
 $= \square + \square$
 $= \square$

$14 \times 5 = \square$
 $\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 5$
 $= \square + \square \times \square$
 $= \square \times \square + \square \times \square$
 $= \square + \square$
 $= \square$

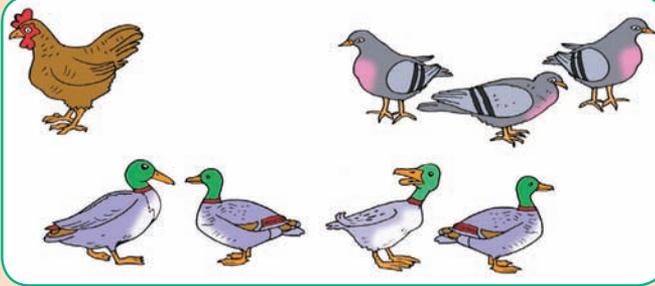
$13 \times 5 = \square$
 $\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 5$
 $= \square + \square \times \square$
 $= \square \times \square + \square \times \square$
 $= \square + \square$
 $= \square$

Teacher:
 Sign:
 Date:



Muandiso 2

Zwiṇoni zwoṭhe zwi na milenzhe ya 2.



Zwiṇoni zwoṭhe zwi na phapha dza 2.

Ṭhanganyelo ya milenzhe tshifanyisoni itshi ndi tshifhio?

Ṭhanganyelo ya phapha tshifanyisoni itshi ndi tshifhio?



maivha

Lavhelesani tshifanyiso ni fhedzise zwi tevhelaho.



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

Tshivhalo tsha maivha Milenzhe nga tshiṇoni

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

Tshivhalo tsha maivha Milenzhe nga tshiṇoni

masekhwa



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

Tshivhalo tsha masekwa Milenzhe nga tshiṇoni

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

Tshivhalo tsha masekwa Milenzhe nga tshiṇoni



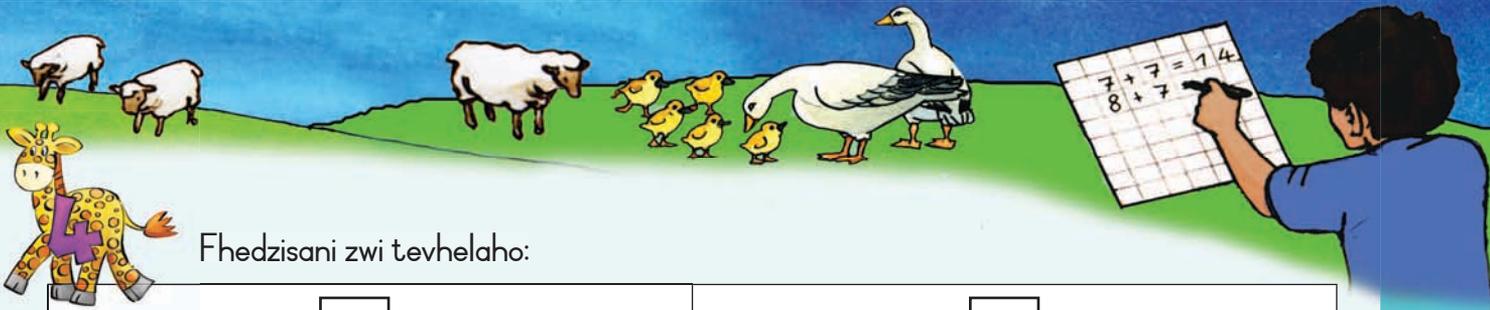
Fhedzisani zwi tevhelaho:

2	4	6						
20	18	16						



Fhedzisani zwi tevhelaho:

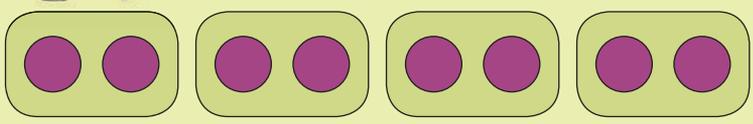
5 ×  = maapula a <input type="text"/>	4 ×  = miomva ya <input type="text"/>
6 ×  = miomva ya <input type="text"/>	7 ×  = maapula a <input type="text"/>



Fhedzisani zwi tevhelaho:

$12 \times 2 = \square$
 $\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \begin{array}{|c|} \hline 2 \\ \hline \end{array} \times 2$
 $= \begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} \times 2$
 $= \begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 2 + \begin{array}{|c|} \hline 2 \\ \hline \end{array} \times 2$
 $= 20 + 4$
 $= 24$

$15 \times 2 = \square$
 $\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array} \times 2$
 $= \square + \square \times \square$
 $= \square \times \square + \square \times \square$
 $= \square + \square$
 $= \square$



$2 + 2 + 2 + 2 = 8$

kana

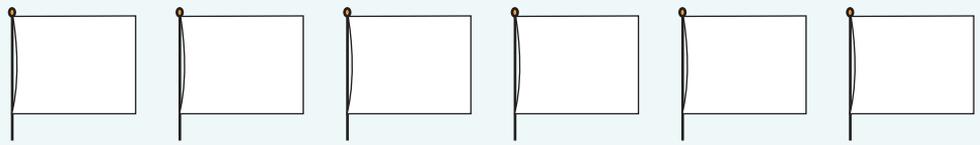
$4 \times 2 = 8$

kana

$8 \div 2 = 4$

Hetshi ndi tshiga tsha mukovho

Olani naledzi dza 2 kha fulaga inwe na inwe.



$2 + _ + _ + _ + _ + _ = _$
 $_ \times _ = _$



Hu na zwiḅḅoko zwingana kha mabaphathi aya a tshokoleithi?

$_ \times _ = _$
 $_ \times _ = _$



Teacher: _____
 Sign: _____
 Date: _____

Kotara u bva kha

Deithi:



Ambani nga watshi.



Luṅanga lupfufhi lu kha ḡi tou bva u fhira awara ya u thoma.

Luṅanga lulapfu lwo ima kha miminete ya fumithanu.

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?



Luṅanga lupfufhi lu kha ḡi tou bva u fhira _____.

Luṅanga lulapfu lwo ima kha miminete ya _____.

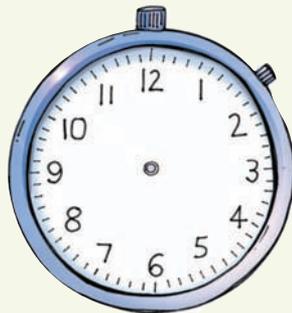
Ri ri ndi _____ u bva kha _____.

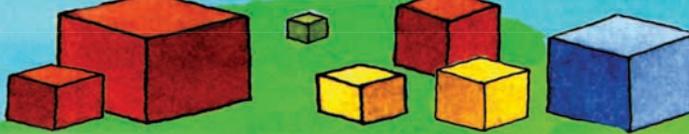


Olani luṅanga lulapfu na luṅanga lupfufhi.

Kotara u bva kha 8.

Kotara u bva kha 3.





Kotara u ya kha



Ambani nga watshi.



Luṅanga lupfufhi lutsinitsini na raru.

Luṅanga lulapfu lwo ima kha **mimnete ya fuinaṭhanu**.

Ri ri ndi Kotara u ya kha awara ya vhuraru.

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

u rangela kha awara ya u vhuraru.



Ndi tshifhingade?



Luṅanga lupfufhi lu tsinitsini na _____.

Luṅanga lulapfu lwo ima kha **mimnete ya** _____.

Ri ri ndi _____ u ya kha _____.

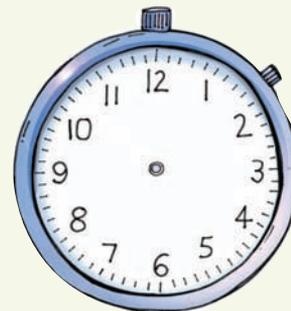


Olani luṅanga lulapfu na luṅanga lupfufhi.

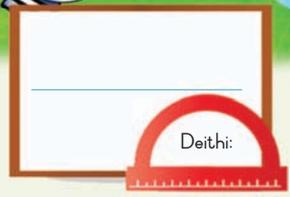
Kotara u bva kha 4.



Kotara u bva kha 8.



Tshifhinga tshi a tshimbila



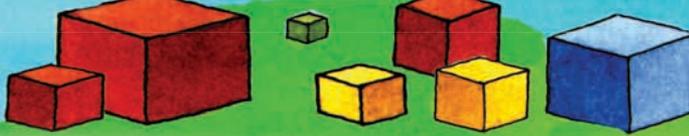
Awara dza 2	Awara dza 2	Awara ya 1



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?

Blank area for writing the answer to the word problem.

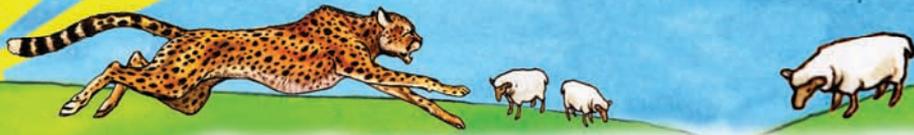


Ndalamo o vha o ya u rea khovhe na khotsi awe. Vho tuwa nga awara ya 4 nga matsheloni vha vhuya hayani nga awara ya 10. Vho tuwa awara nngana?

Blank area for writing the answer to the word problem.



Teacher's clipboard with fields for Teacher, Sign, and Date.



U inga kavhili

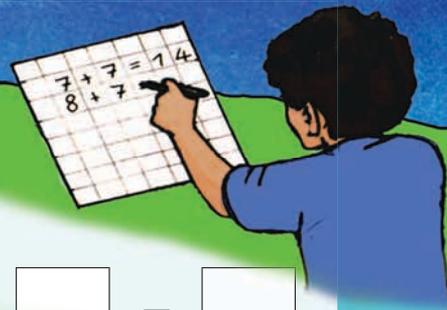
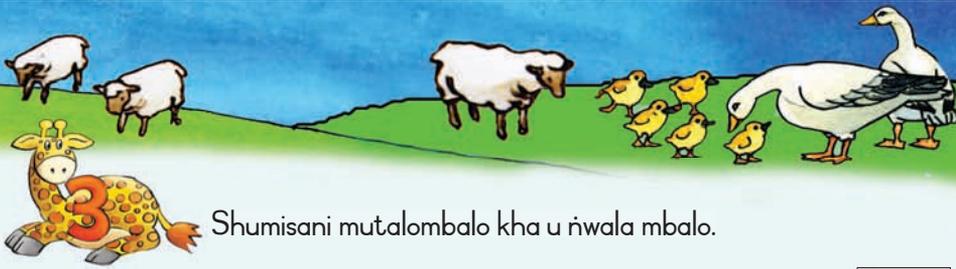
Lavhelesani tshifanyiso tsha u thoma na tsha vhuvhili. Ho itea mini?

Themo ya 3



Engedzani zwithoma, ni riwale mbalo ya irwe na irwe.

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



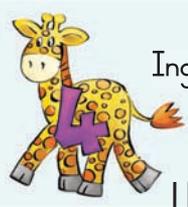
Shumisani mutalombalo kha u riwala mbalo.

Number line activities with jumps:

- 0 to 10 with jumps of 2 (0-2, 2-4, 4-6, 6-8, 8-10)
- 0 to 10 with jumps of 3 (0-3, 3-6, 6-9)
- 0 to 10 with jumps of 4 (0-4, 4-8)
- 0 to 10 with jumps of 1 (0-1, 1-2, 2-3, 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10)
- 0 to 10 with jumps of 5 (0-5, 5-10)

Blank addition equations for practice:

$$\square + \square = \square$$

$$\square + \square = \square$$


Ingani kavhili zwi tevhelaho:

1 kavhili $\square + \square = \square$

2 kavhili $\square + \square = \square$

3 kavhili $\square + \square = \square$

4 kavhili $\square + \square = \square$

5 kavhili $\square + \square = \square$

$2 \times \square = \square$

Tracing practice with a pencil icon:

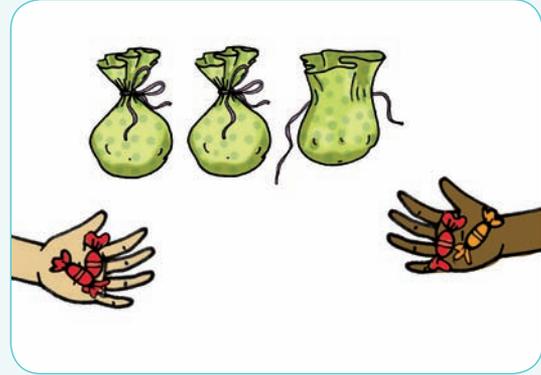
2 4 6 8 10 12 14

Teacher: _____
 Sign: _____
 Date: _____



U inga kavhili ha u hafula

Lavhelesani zwifanyiso zwivhili. Itani tshiṭori tshaṅu.



Themo ya 3



Vhalani zwithu ni khalare hafu yazwo.

Vhalani

Hafu ndi

Vhalani

Hafu ndi



Fhedzisani zwi tevhelaho ni ole tshifanyiso.

12 yo ingwa kavhili ndi

+

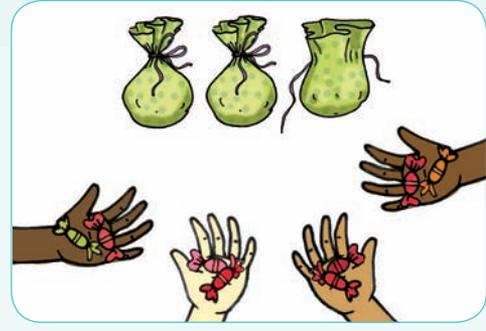


Fhedzisani

14	8		16	
		2		9



Lavhelesani zwifanyiso zwivhili. Itani tshiṭori tshaṅu.



Hu na maḷegere a 10 phakhetheni.



Vhalani zwithu ni khalare hafu yazwo.

Vhalani

Hafu ndi

Vhalani

Hafu ndi



Fhedzisani zwi tevhelaho ni ole tshifanyiso.

16 yo ingwa

kavhili ndi

+



Fhedzisani.

34			36	40
	22	19		

Teacher:

Sign:

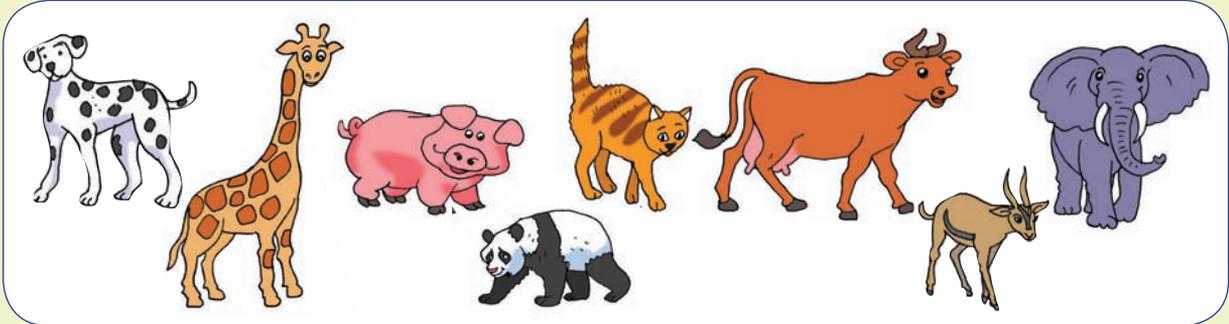
Date:



Muandiso muñwe hafhu

Zwipuka zwoṯhe zwi na milenzhe ya 4.

Zwipuka zwoṯhe zwi na maṯo a 2.



Tshivhalogute tsha milenzhe tshifanyisoni itshi ndi tshifhio?

Tshivhalogute tsha ndevhe tshifanyisoni itshi ndi tshifhio?

Lavhelesani tshifanyiso ni fhedzise zwi tevhelaho:



Mmbwa

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

Tshivhalo tsha mmbwa Milenzhe nga tshipuka

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

Tshivhalo tsha mmbwa Ndevhe nga tshinoni

Tshivhalo tsha phukha dza ḡaka

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

Tshivhalo tsha phukha Milenzhe nga tshipuka

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

Tshivhalo tsha phukha Milenzhe nga tshipuka



Fhedzisani zwi tevhelaho:

4	8	12						
---	---	----	--	--	--	--	--	--

40	36	32						
----	----	----	--	--	--	--	--	--



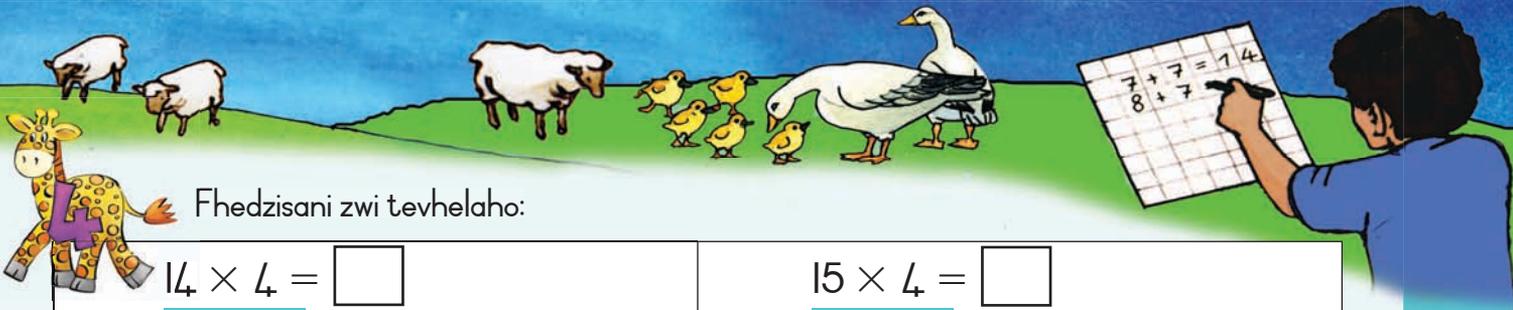
Fhedzisani zwi tevhelaho

$$5 \times \begin{array}{c} \text{🍎} \text{🍎} \\ \text{🍎} \text{🍎} \end{array} = \text{maapula a } \square$$

$$4 \times \begin{array}{c} \text{🍌} \\ \text{🍌} \\ \text{🍌} \\ \text{🍌} \end{array} = \text{miomva ya } \square$$

$$6 \times \begin{array}{c} \text{🍌} \\ \text{🍌} \\ \text{🍌} \\ \text{🍌} \end{array} = \text{miomva ya } \square$$

$$7 \times \begin{array}{c} \text{🍎} \text{🍎} \\ \text{🍎} \text{🍎} \end{array} = \text{maapula a } \square$$



Fhedzisani zwi tevhelaho:

$$14 \times 4 = \square$$

$$\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 4$$

$$= \begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 4 \\ \hline \end{array} \times 4$$

$$= \begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 4 + \begin{array}{|c|} \hline 4 \\ \hline \end{array} \times 4$$

$$= 40 + 16$$

$$= 56$$

$$15 \times 4 = \square$$

$$\begin{array}{|c|c|} \hline 1 & 0 \\ \hline \end{array} \times 4$$

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

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

$$= \square + \square$$

$$= \square$$



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 edane?



Fhedzisani zwi tevhelaho:

Kovhelani mavhulu dza 19 vhana vha 4 nga u edana.

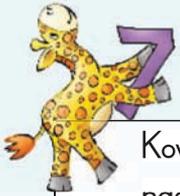
Kovhelani penisela dza 22 vhana vha 4 nga u edana.

Muñwe na muñwe u wana

Muñwe na muñwe u wana

Masalela

Masalela



Olani tshifanyiso ni tshi sumbedza phindulo dzañu.

Kovhelani mabisikitsi a 23 vhana vha 4 nga u edana.

Kovhelani lolipopo dza 15 vhana vha 4 nga u edana.

Muñwe na muñwe u wana

Muñwe na muñwe u wana

Masalela

Masalela



Teacher: _____
 Sign: _____
 Date: _____

Phetheni dza nomboro



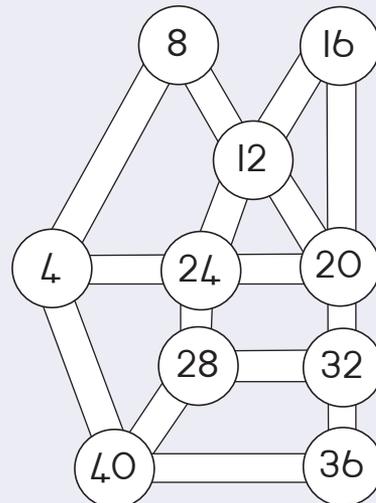
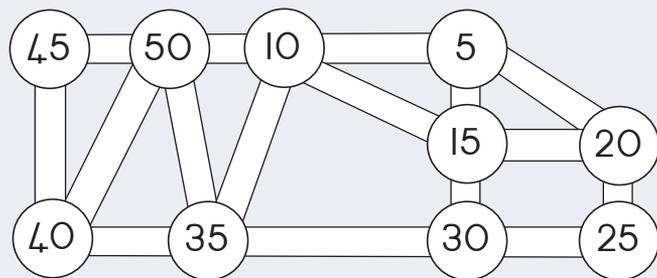
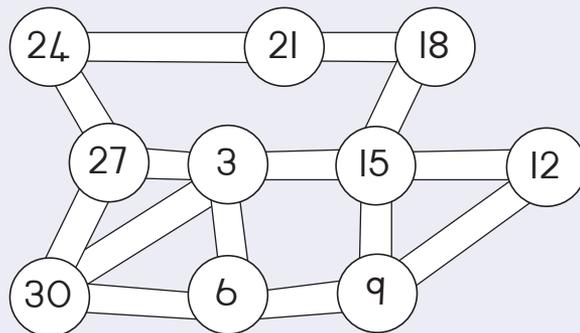
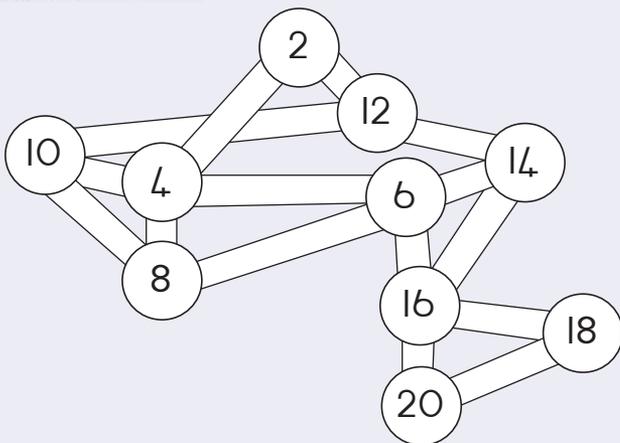
Themo ya 3



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



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





Olani maṅanga kha watshi ni fhedzise phetheni dza zwifhinga.



4:20



4:25



--- : ---



--- : ---



--- : ---



11:10



11:20



11:30



--- : ---



--- : ---



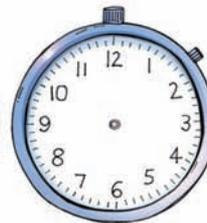
9:25



9:40



9:55



--- : ---



--- : ---



10:30



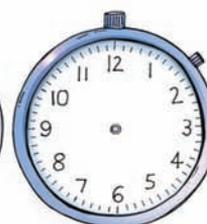
10:35



10:40



--- : ---



--- : ---



5:10



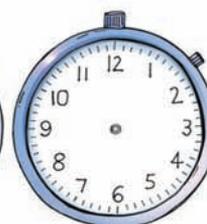
5:20



5:30



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--- : ---



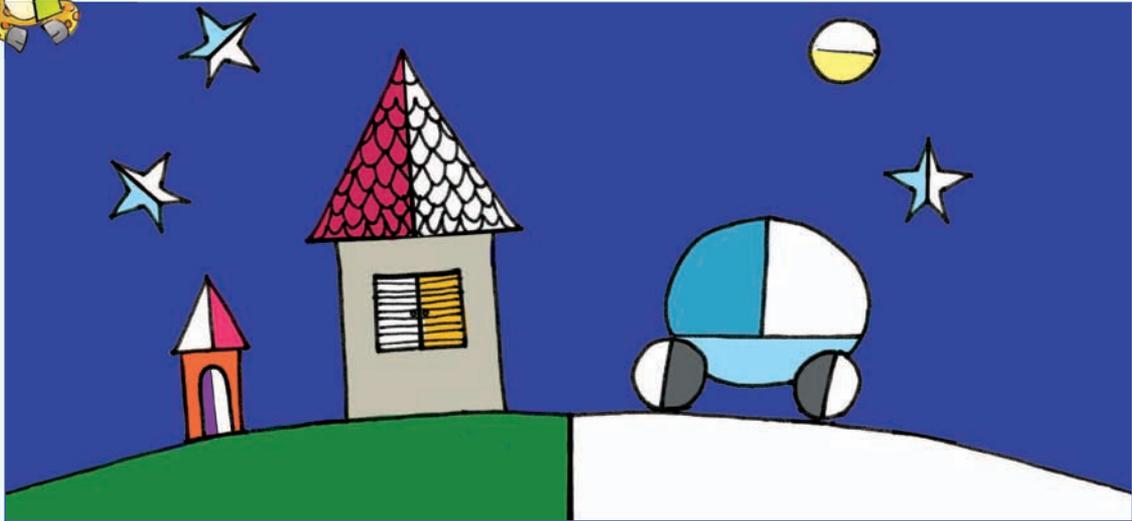
Teacher: _____
 Sign: _____
 Date: _____



Furakhisheni (zvipiḁa) – hafu

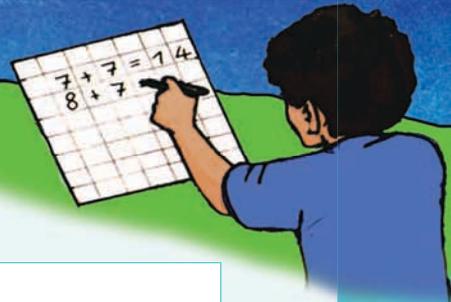


Lavhelesani tshifanyiso. Khaḁarani dzila dzinwe hafu nga muvhala u no fana.



Lavhelesani tshifanyiso. Nwalani thiki kha zwiwhumbeo zwi no sumbedza hafu. Khaḁarani hafu nthihi ya tshivhumbeo tshinwe na tshinwe tsha fhandukanywa tsha bva dzihafu.

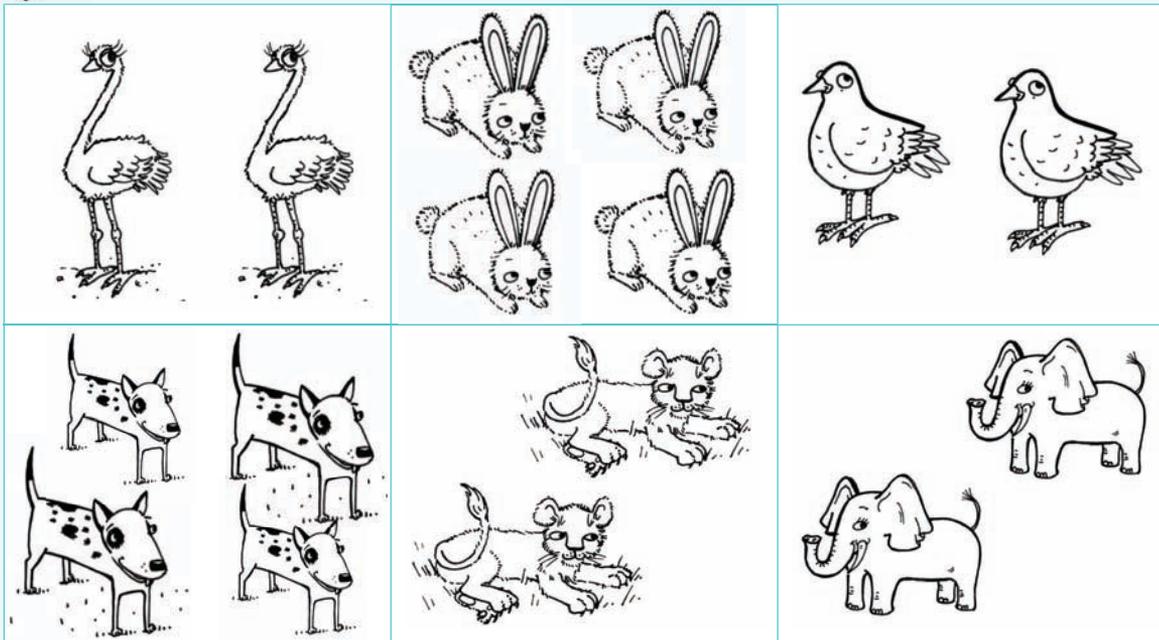
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>



Khalarani hafu ya tshivhumbeo tshirwe na tshirwe.



Khalarani hafu ya zwipuka zwi re kha tshibuloko tshirwe na tshirwe




hafu hafu hafu hafu

Teacher: _____
 Sign: _____
 Date: _____

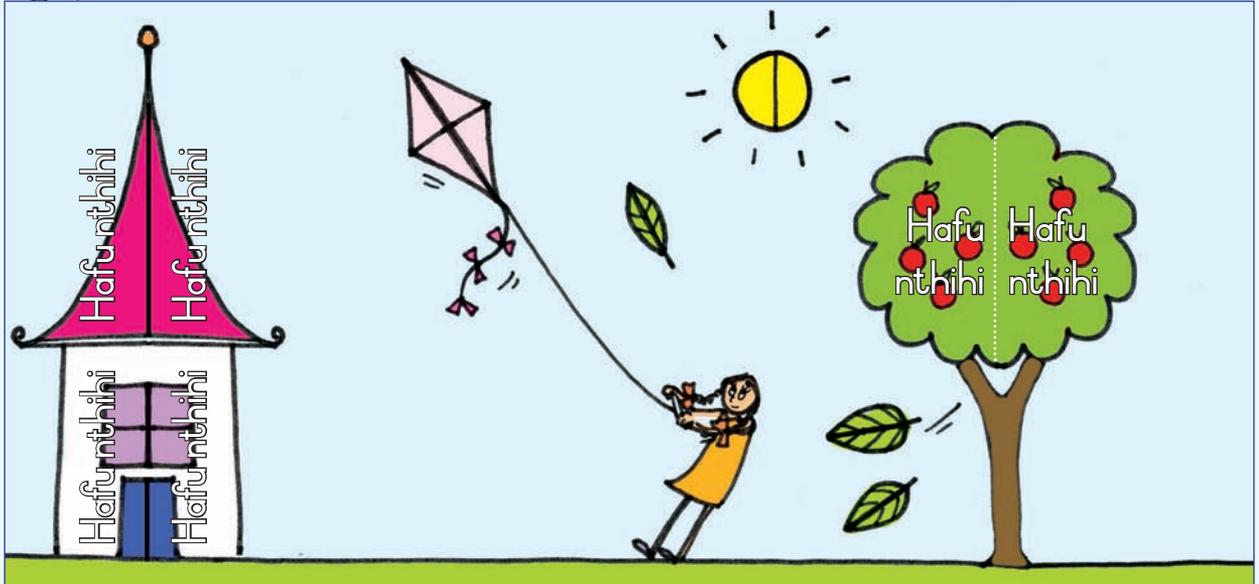




Furakhisheni – hafu dzinwe hafhu



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



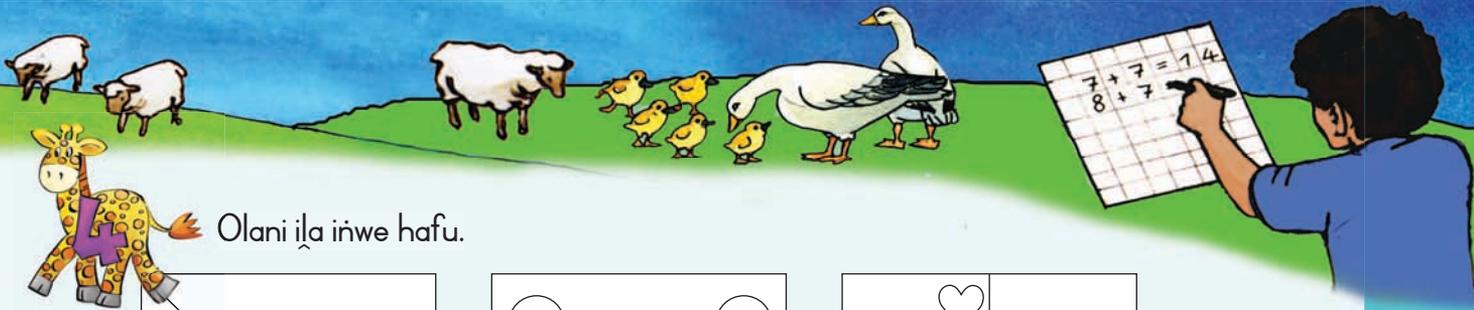
Hafu nthihi ya maapula a re murini ndi .



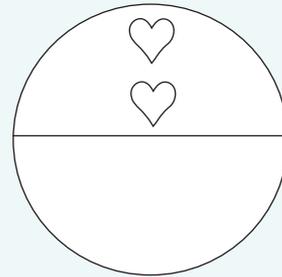
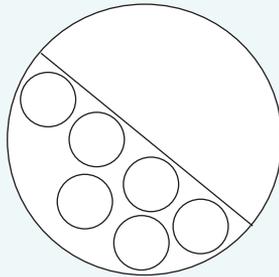
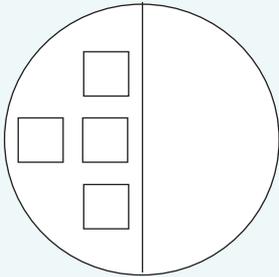
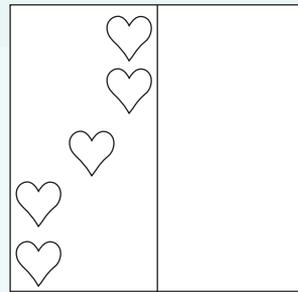
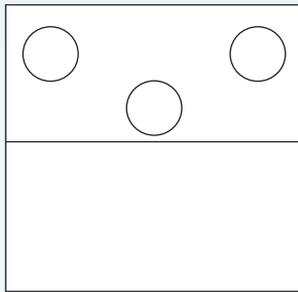
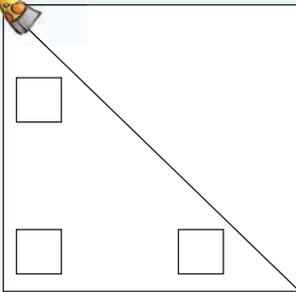
Khalarani hafu ya mitshelo kha tshigwada tshinwe na tshinwe.

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

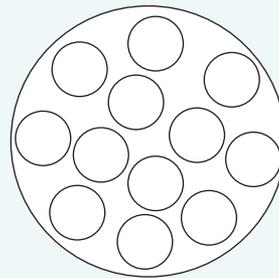
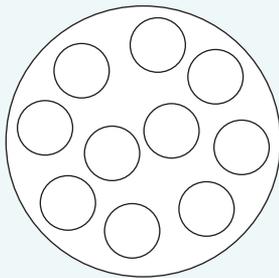
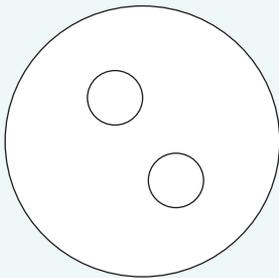
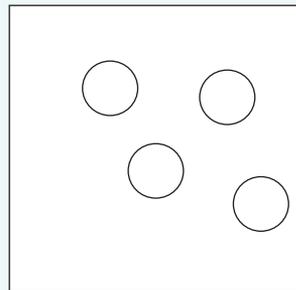
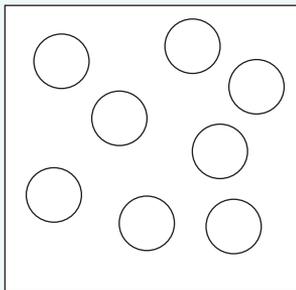
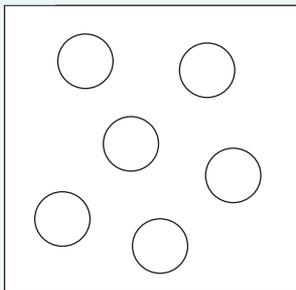
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 <input type="text"/>	 <input type="text"/>	 <input type="text"/>



Olani ila inwe hafu.



Khalarani hafu ya zwiwumbeo.



hafu hafu hafu hafu



Teacher: _____
 Sign: _____
 Date: _____



Deithi:

Vhuimo na mbonalo

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



Mbonalo ya nga phanda ya tshifhaṭo.

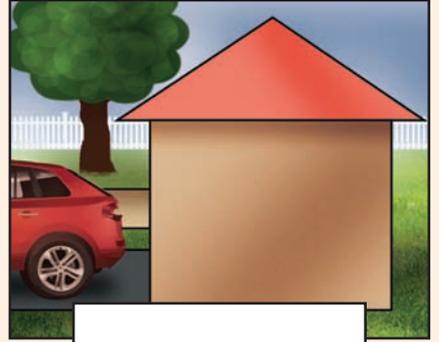
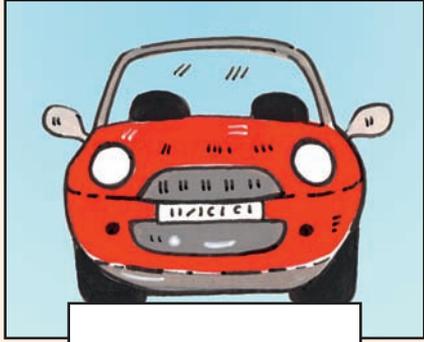
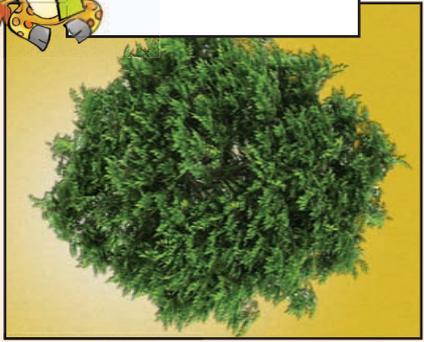


Mbonalo ya nga matungo ya tshifhaṭo.



Mbonalo ya nga nṭha ya tshifhaṭo.

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

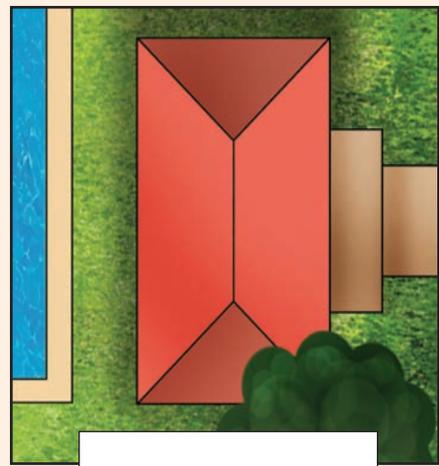
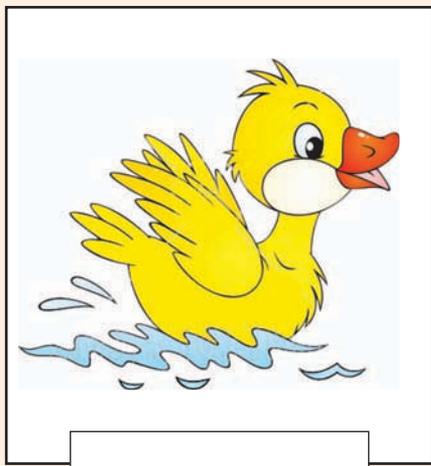


Nwalani maipfi aya kha tshifanyiso. Uyu muthu u khou vhona mini?

mbonalo ya nga phanda

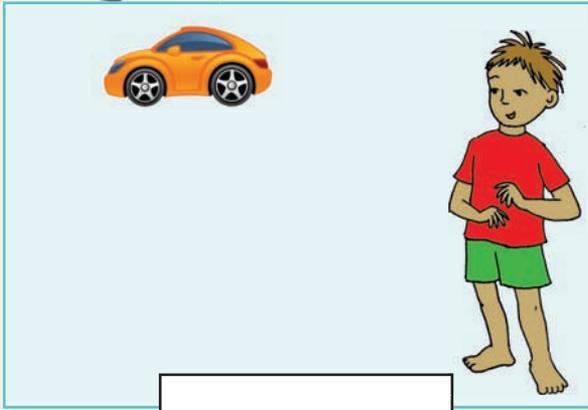
mbonalo ya nga nṭha

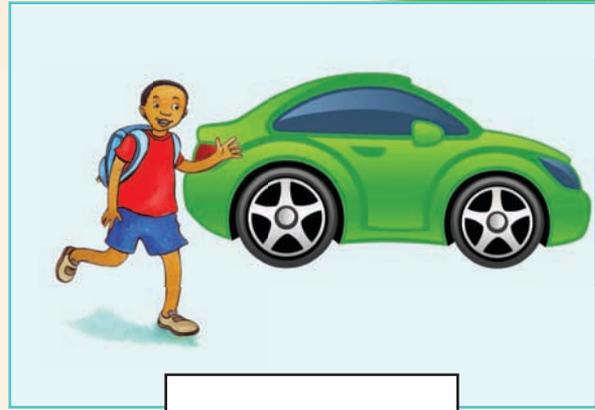
mbonalo ya nga matungo



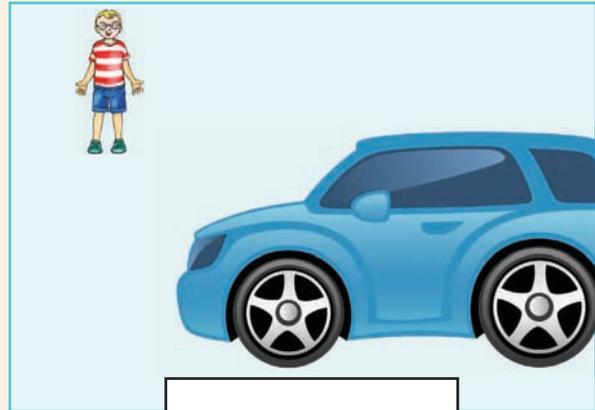


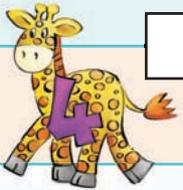
Bulani uri mođoro u tsini kana u kule na mutukana naa.





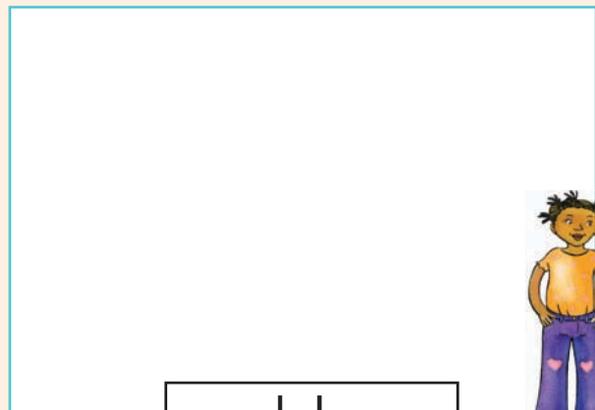






Olani muri u tsini kana kule na musidzana.





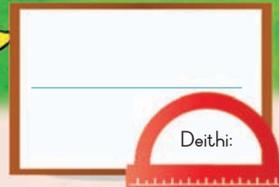


Itani nyito iyi:

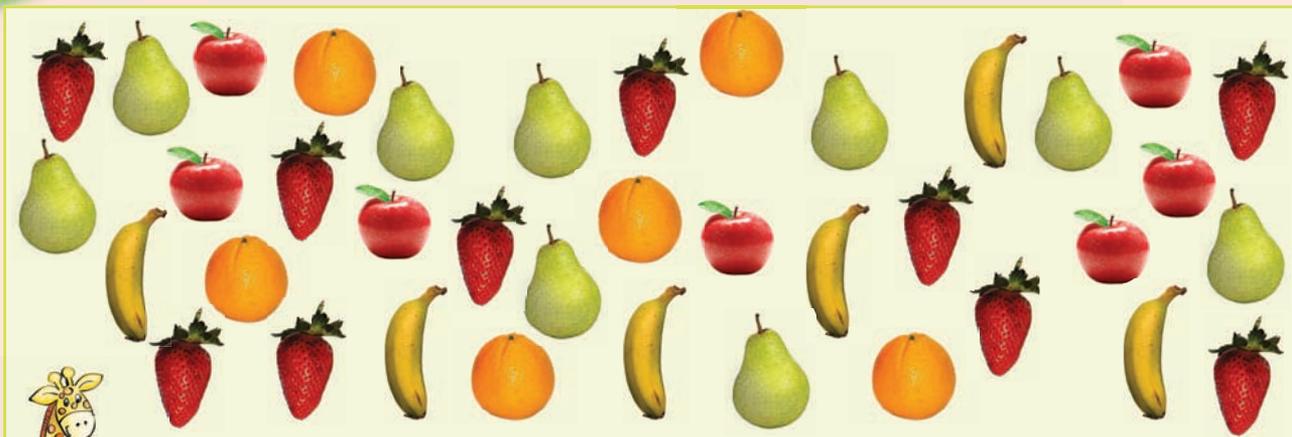
- Lavhelesani zwithu zwiwihili nga maṭo vhuvhili hao. Ni vhona mini?
- Thivhani liṭo lithihi nga tshanda, zwino ni vho vhona mini?



Teacher: _____
 Sign: _____
 Date: _____



Data inwe hafhuhafhu



Nanguludzani mitshelo. Olani nyolo yaṅu ya u zwi sumbedza. Nwalani tḥanganyelo 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 mutuku?



Teacher: _____
 Sign: _____
 Date: _____



Furakhisheni – dzikota



Khalarani kota ya u fhedza nga muvhala muthihi.



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

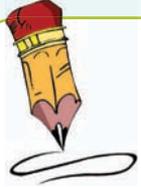
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>



Khalarani kotara nthihi ya tshivhumbeo.



Khalarani kota nthihi ya tshigwada tshinwe na tshinwe tsha zwipuka.



kota kota kota

Teacher:

Sign:

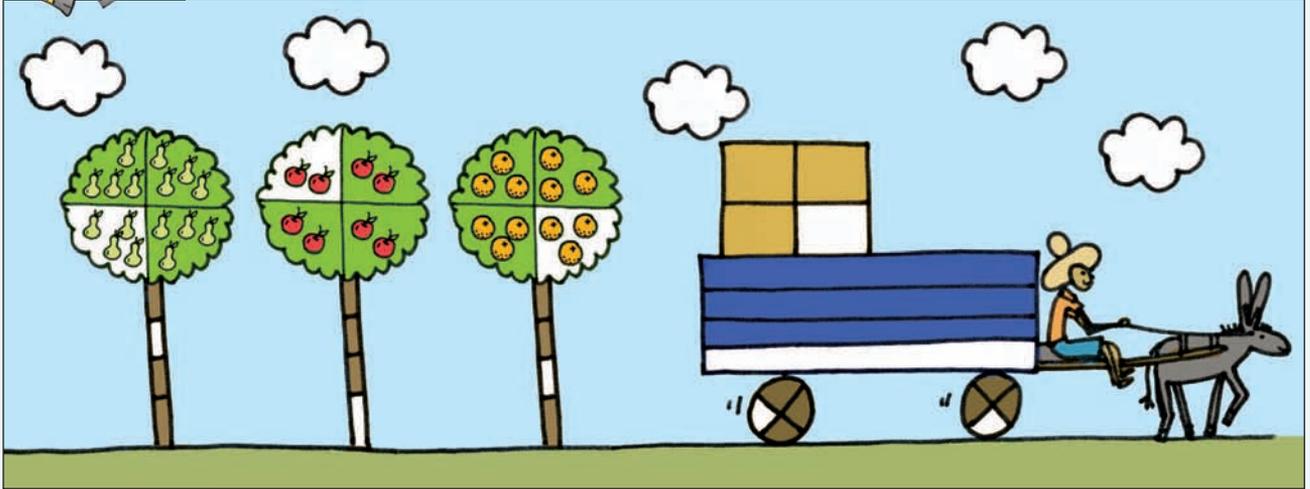
Date:



Furakhisheni – kota dzinwe hafhu



Khalarani kota ya u fhedza nga muvhala muthihi.



Fhindulani zwi tevhelaho:

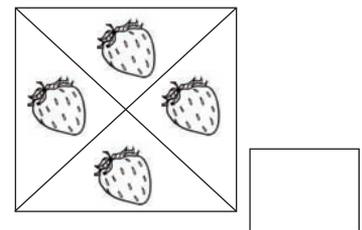
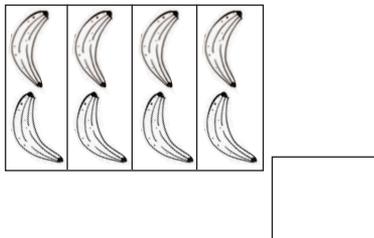
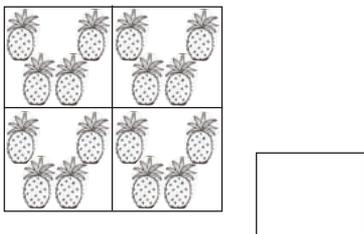
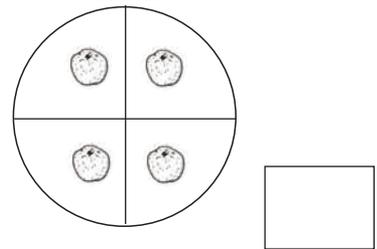
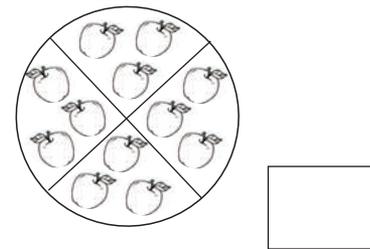
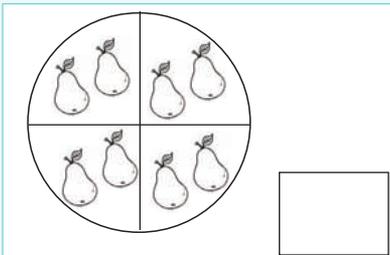
kota nthihi ya mapiere a re murini ndi _____.

kota nthihi ya maapula a re murini ndi _____.

kota nthihi ya maswiri a re murini ndi _____.

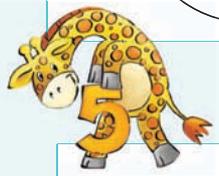


Khalarani $\frac{1}{4}$ nthihi ya mitshelo tshigwadani tshinwe na tshinwe. Themo ya tshivhalo tsha mitshelo kha tshigwada tshinwe na tshinwe ndi vhugai?





Olani zwiṅwe zwiṅhumbleo u itela uri kota dzi lingane.



Sumbedzani kota nthihi ya zwiṅhumbleo.

--	--



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

	<input type="checkbox"/>		<input type="checkbox"/>	hafu nthihi	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	kota nthihi	<input type="checkbox"/>

 _____

 kōta kōta

Teacher: _____
 Sign: _____
 Date: _____

Nomborani phetheni nga zwivhumbeo

Livhanyani phetheni.



The chalkboard contains two white panels. The left panel shows four rows of colored shapes: Row 1: Red circles and red triangles alternating. Row 2: Purple squares and purple rectangles alternating. Row 3: Orange circles, orange squares, and orange triangles alternating. Row 4: Green circles, green squares, and green rectangles alternating. The right panel shows four rows of white outlines of shapes: Row 1: Squares and smaller squares alternating. Row 2: Circles, squares, and triangles alternating. Row 3: Circles, squares, and circles alternating. Row 4: Circles, triangles, and circles alternating.

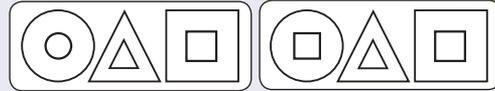
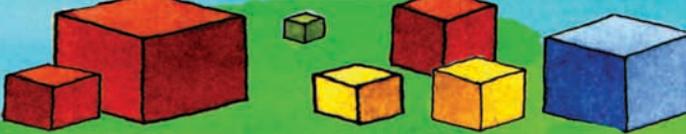


Kopololani phethini i tevhelaho.

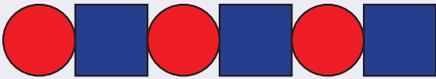
A series of horizontal bars for shape identification and tracing. Row 1: A sequence of colored shapes: square, triangle, circle, square, triangle, circle, square, triangle, circle, square, triangle, circle, square. Row 2: A sequence of white outlines of the same shapes as in Row 1. Row 3: A sequence of colored shapes: square, triangle, circle, circle, square, triangle, circle, circle, square, triangle, circle, circle, square, triangle, circle, circle. Row 4: A sequence of white outlines of the same shapes as in Row 3. Row 5: A sequence of colored shapes: rectangle, circle, triangle, rectangle, circle, triangle, rectangle, circle, triangle, rectangle, circle, triangle. Row 6: A sequence of white outlines of the same shapes as in Row 5. Row 7: A sequence of colored shapes: triangle, inverted triangle, triangle, inverted triangle. Row 8: A sequence of white outlines of the same shapes as in Row 7.



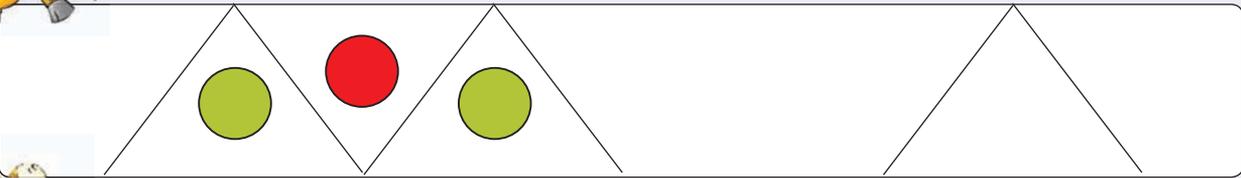
Khalarani phetheni i no tevhela.



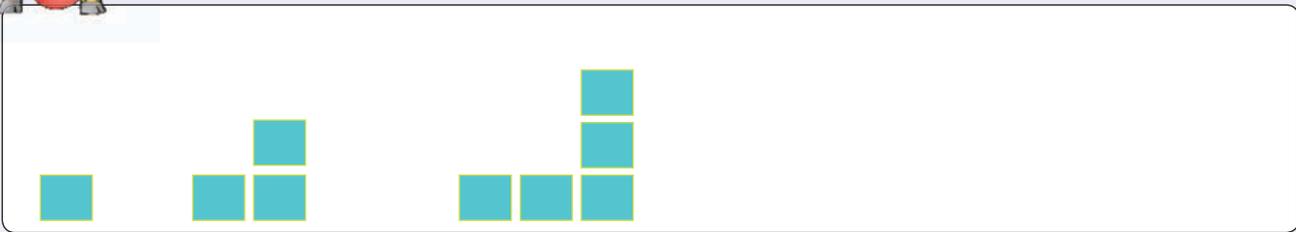
Olani phetheni i no tevhela.



Tharamudzani phetheni.

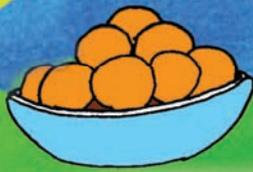


Olani phetheni i no tevhela.

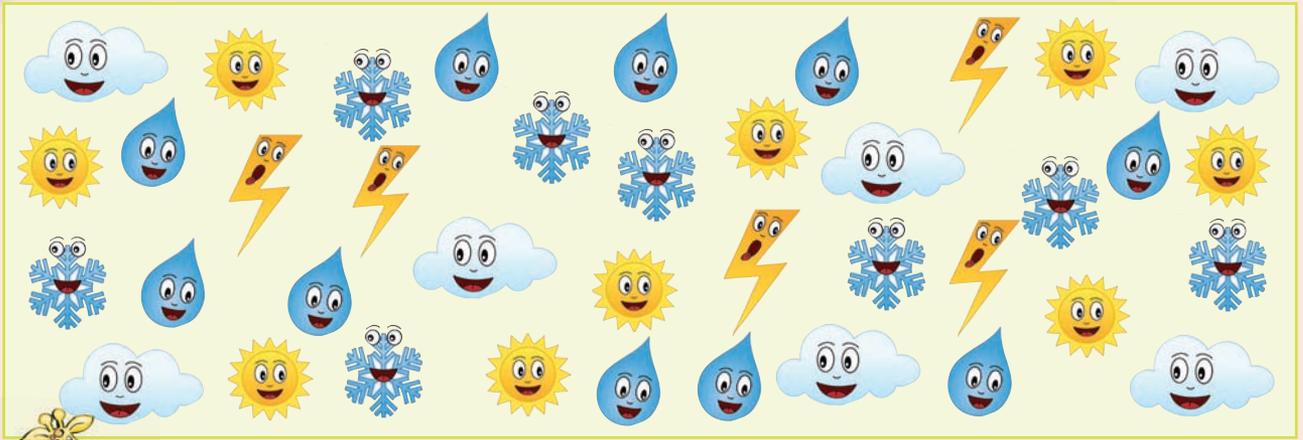


Olani phetheni yaṅu inwi muṅe.





U vhekanya data



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









Olani phikhithogirafu ya zwithu zwa mutsho zwo nanguludzwa.

KHII: 



Sedzani zwithu zwa mutsho ni fhindule mbudziso. Fhindulani mbudziso dzi tevhelelaho.

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

Ni vhona u nga ndi khalaṅwaha ifhio?

Ngani?

Zwi ḁo rali kha mavunḁu oṱhe?



Teacher: _____
 Sign: _____
 Date: _____



Nomboro 150 – 180



Khalarani zwitendeledzi zwa 172.

○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	1 0 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	7 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	2
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○	



Nwalani fhungombalo la:

<table border="1"> <tr> <td>1 0 0</td> <td>5 0</td> <td>8</td> </tr> <tr> <td colspan="3">$100 + 50 + 8 = 158$</td> </tr> </table>	1 0 0	5 0	8	$100 + 50 + 8 = 158$			<table border="1"> <tr> <td>1 0 0</td> <td>5 0</td> <td>9</td> </tr> <tr> <td colspan="3">=</td> </tr> </table>	1 0 0	5 0	9	=			<table border="1"> <tr> <td>1 0 0</td> <td>7 0</td> <td>2</td> </tr> <tr> <td colspan="3">=</td> </tr> </table>	1 0 0	7 0	2	=		
1 0 0	5 0	8																		
$100 + 50 + 8 = 158$																				
1 0 0	5 0	9																		
=																				
1 0 0	7 0	2																		
=																				
<table border="1"> <tr> <td>1 0 0</td> <td>5 0</td> <td>0</td> </tr> <tr> <td colspan="3">=</td> </tr> </table>	1 0 0	5 0	0	=			<table border="1"> <tr> <td>1 0 0</td> <td>6 0</td> <td>7</td> </tr> <tr> <td colspan="3">=</td> </tr> </table>	1 0 0	6 0	7	=			<table border="1"> <tr> <td>1 0 0</td> <td>7 0</td> <td>5</td> </tr> <tr> <td colspan="3">=</td> </tr> </table>	1 0 0	7 0	5	=		
1 0 0	5 0	0																		
=																				
1 0 0	6 0	7																		
=																				
1 0 0	7 0	5																		
=																				



Ndi nomboro dzifhio dzi no da vhukati ha:

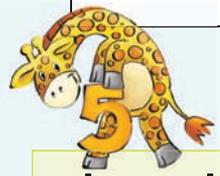
- 150 na 158 _____
- 172 na 177 _____
- 180 na 175 _____
- 160 na 155 _____
- 165 na 160 _____



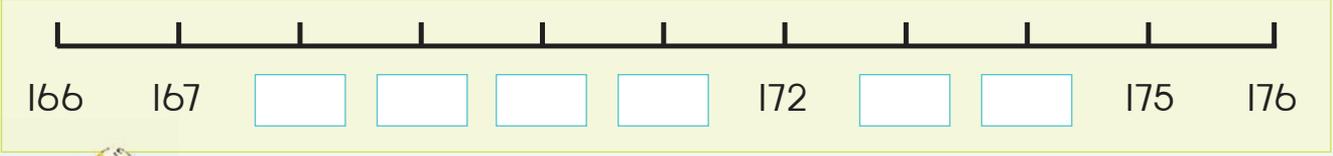
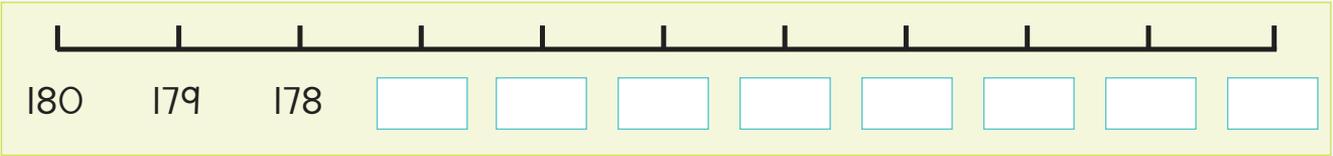
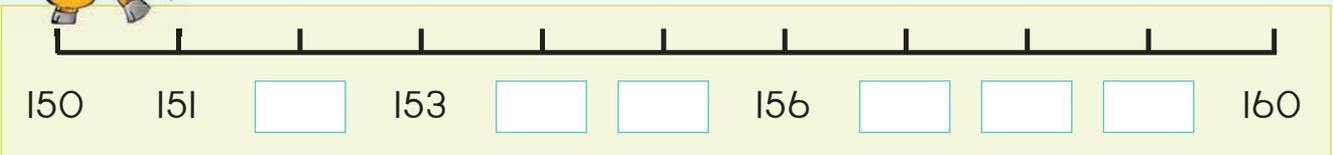


Nwalani nomboro mbili dzine dza vha tshukhu na mbili dzine dza vha khulwane kha ye ya newa.

Tshukhu		Nomboro	Khulwane	
		157		
		165		
		178		
		161		
		174		



Fhedzisani mitalombalo iyi.



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 tshukhusa.



Teacher: _____

Sign: _____

Date: _____



Nomboro 170 – 200



Khalarani zwitendeledzi zwa 199.

○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	1 0 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	9 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	9
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	

Themo ya 4



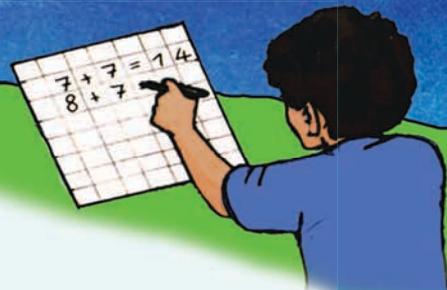
Nwalani nomboro ya:

<table border="1"> <tr> <td>1 0 0</td> <td>7 0</td> <td>7</td> </tr> </table> <p>100 + 70 + 7 = 177 </p>	1 0 0	7 0	7	<table border="1"> <tr> <td>1 0 0</td> <td>9 0</td> <td>3</td> </tr> </table> <p>=</p>	1 0 0	9 0	3	<table border="1"> <tr> <td>1 0 0</td> <td>8 0</td> <td>1</td> </tr> </table> <p>=</p>	1 0 0	8 0	1
1 0 0	7 0	7									
1 0 0	9 0	3									
1 0 0	8 0	1									
<table border="1"> <tr> <td>1 0 0</td> <td>9 0</td> <td>5</td> </tr> </table> <p>=</p>	1 0 0	9 0	5	<table border="1"> <tr> <td>1 0 0</td> <td>9 0</td> <td>9</td> </tr> </table> <p>=</p>	1 0 0	9 0	9	<table border="1"> <tr> <td>1 0 0</td> <td>7 0</td> <td>9</td> </tr> </table> <p>=</p>	1 0 0	7 0	9
1 0 0	9 0	5									
1 0 0	9 0	9									
1 0 0	7 0	9									



Ndi nomboro ifhio i no da vhukati ha:

- 170 na 175 _____
- 198 na 195 _____
- 180 na 175 _____
- 168 na 173 _____
- 200 na 196 _____

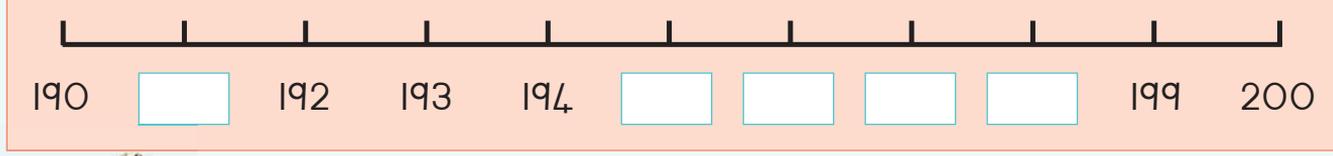
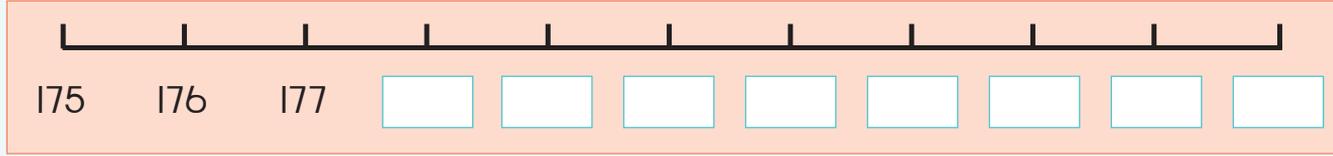
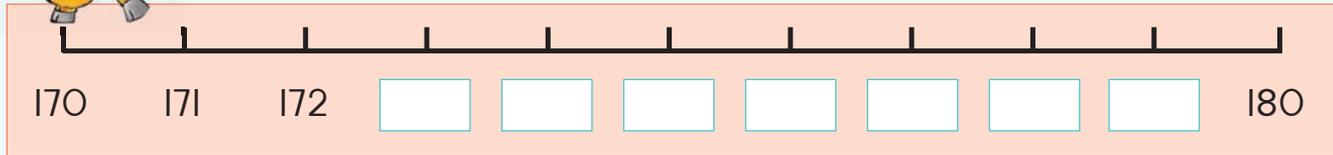


Nwalani nomboro mbili dzine dza vha tshukhu na mbili dzine dza vha khulwane kha ye ya newa.

Tshukhu		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 tshukhusa.



Teacher: _____

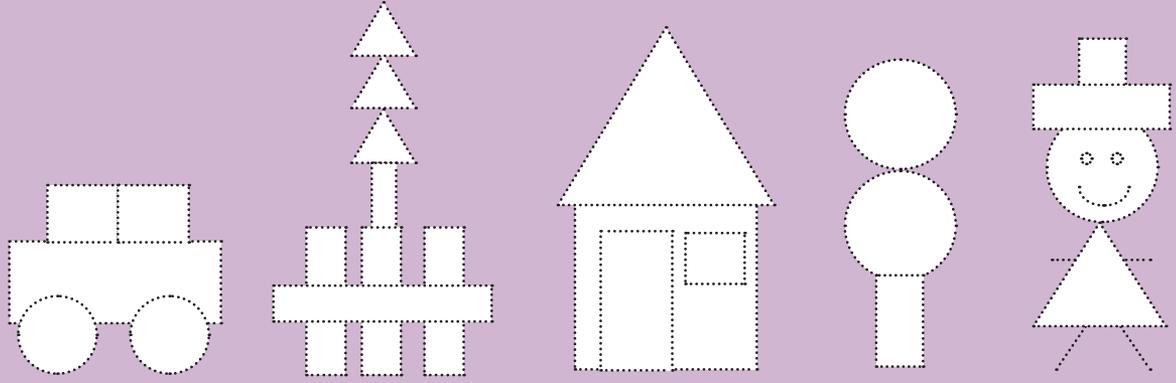
Sign: _____

Date: _____



Zwivhumbeo zwa 2-D

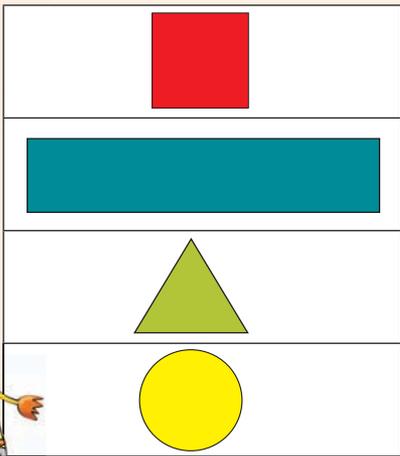
Tevhedzelani zwivhumbeo zwoṭhe. Khaḷarani zwitendeledzi nga muvhala mutswuku, thiraiengele nga muvhala mudala, zwikwea nga wa ṭaḍa na rekithiengele nga wa lutombo.



Themo ya 4



Livhanyani ipfi na tshivhumbeo.



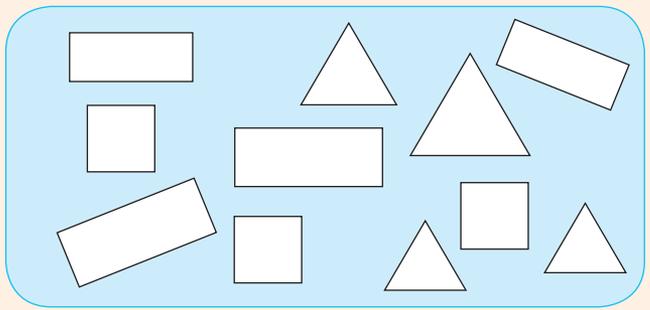
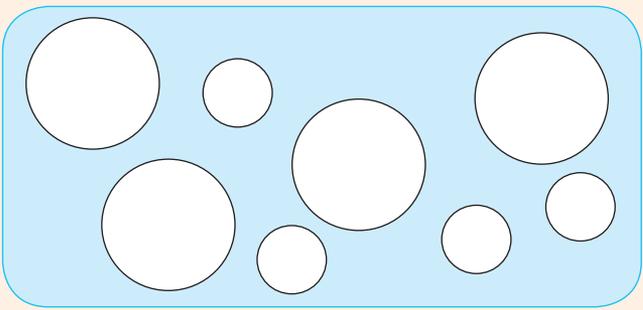
thiraiengele
tshitendeledzi
tshikwea
rekithiengele

Khaḷarani:

- Zwitendeledzi zwiḥulwane nga muvhala mutswuku
- Zwitendeledzi zwituku nga muvhala wa ṭaḍa

Khaḷarani:

- Rekithiengele khulwane nga muvhala mutswuku
- Rekithiengele ṭhukhu nga muvhala wa ṭaḍa





Khalarani zivhumbeo zwi no yelana na tshivhumbeo tsha u thoma.

Shape recognition and tracing activity. It consists of four rows. Each row starts with a purple rounded rectangle containing a white shape, followed by a yellow rounded rectangle containing five instances of that same shape. The shapes are: 1. A right-pointing triangle. 2. A diamond (square rotated 45 degrees). 3. A rectangle. 4. A circle.



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

A large, empty rounded rectangular box for drawing or writing.

A light blue rectangular box containing the text: "Kha bammbiri la kale, gerani zwikwea, rekithiengele, zwitendeledzi na thiraiengele kha bammbiri la kale ni ite tshifanyiso tshanu ngazwo."



Teacher: _____
 Sign: _____
 Date: _____



Nomboro 0 – 200

Themo ya 4



Ndi nomboro nngana dzo fhambananaho dzine na nga vhumba.

100	40	2
9	50	100
20	100	70
	1	8



Fhedzisani zwi tevhelaho.

<p>100 40 9</p> $100 + 40 + 9 = \square$	<p>100 70 3</p> $100 + 70 + 3 = \square$	<p>100 20 8</p> $100 + 20 + 8 = \square$
<p>100 10 7</p> $100 + 10 + 7 = \square$	<p>100 90 2</p> $100 + 90 + 2 = \square$	



Dadzani zwibogisi zwi si na tshithu ni tshi shumisa maḡana, mahumi na dziyuniti u itela u fhedzisa mbalo.

$$181 = \square + \square + \square$$

$$144 = \square + \square + \square$$

$$135 = \square + \square + \square$$

$$156 = \square + \square + \square$$

$$169 = \square + \square + \square$$



Tanganyani zwi tevhelaho.

$60 + 4 = \square$

$100 + 20 + 3 = \square$

$90 + 8 = \square$

$100 + 40 + 9 = \square$

$40 + 7 = \square$

$100 + 70 + 8 = \square$

$30 + 6 = \square$

$100 + 60 + 1 = \square$

$50 + 2 = \square$

$100 + 50 + 5 = \square$

Dzhenisani nomboro dzo tshelaho.

$70 + \square = 71$

$100 + \square + 3 = 153$

$30 + \square = 38$

$100 + \square + 9 = 169$

$60 + \square = 69$

$\square + 70 + 8 = 178$

$20 + \square = 24$

$100 + \square + 1 = 191$

$80 + \square = 85$

$100 + 50 + \square = 157$



Itani tshanganyelo dzaṅu inwi muṅe ni tshi shumisa maḍana, mahumi na dziyuniti.

$\square + \square + \square = \square$

$\square + \square + \square = \square$



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

5 0 9
1 0 0

1 0 0
9 4 0

4
1 0 0
5 0

Teacher: _____
Sign: _____
Date: _____

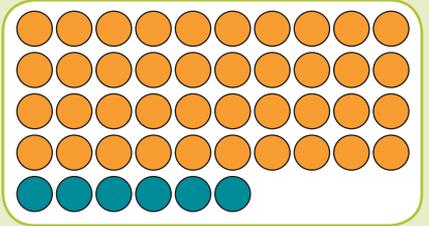
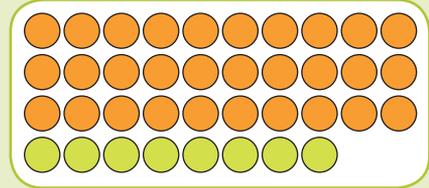


Mutanganyo na Mutuso

Lavhelesani bodo ya nomboro na malungu. Ambani ngazwo.



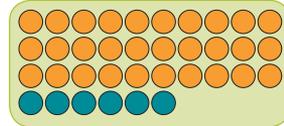
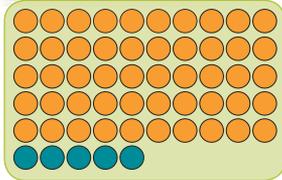
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



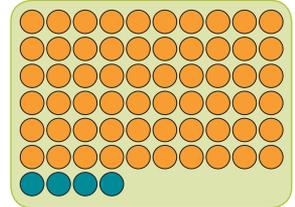
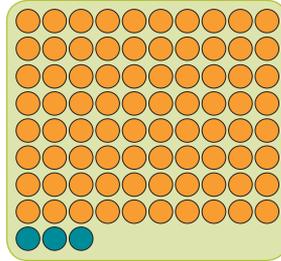
Themo ya 4



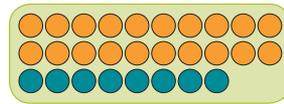
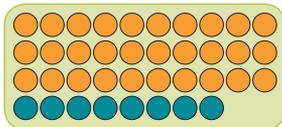
Tanganyani kana ni tuse malungu.



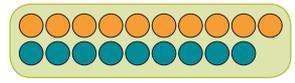
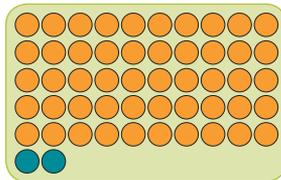
$$\begin{aligned}
 & \boxed{50} \quad \boxed{5} - \boxed{30} \quad \boxed{6} \\
 = & \boxed{40} + \boxed{15} - \boxed{30} - \boxed{6} \\
 = & \boxed{10} + \boxed{9} \\
 = & \boxed{19}
 \end{aligned}$$



$$\begin{aligned}
 & \boxed{} \quad \boxed{} - \boxed{} \quad \boxed{} \\
 = & \boxed{} + \boxed{} - \boxed{} - \boxed{} \\
 = & \boxed{} + \boxed{} \\
 = & \boxed{}
 \end{aligned}$$



$$\begin{aligned}
 & \boxed{} \quad \boxed{} + \boxed{} \quad \boxed{} \\
 = & \boxed{} + \boxed{} + \boxed{} \\
 = & \boxed{} + \boxed{} + \boxed{} + \boxed{} \\
 = & \boxed{} + \boxed{} \\
 = & \boxed{}
 \end{aligned}$$



$$\begin{aligned}
 & \boxed{} \quad \boxed{} + \boxed{} \quad \boxed{} \\
 = & \boxed{} + \boxed{} + \boxed{} \\
 = & \boxed{} + \boxed{} \\
 = & \boxed{}
 \end{aligned}$$



Anganyani ni rekanye.

	+		Anganyani <input style="width: 50px; height: 20px;" type="text"/> Rekanyani <input style="width: 50px; height: 20px;" type="text"/>
--	---	--	--

	+		Anganyani <input style="width: 50px; height: 20px;" type="text"/> Rekanyani <input style="width: 50px; height: 20px;" type="text"/>
--	---	--	--



Shumani mbalo ni tshi shumisa ndila yanu.

$53 + 39$

$92 - 48$

Tanganyani 39 na 29.

43 na 19 dzi ita mini?

45 yo tuswa kha 74 i vha mini.

82 ho tuswa 69 i vha mini?

Teacher: _____
 Sign: _____
 Date: _____



Muṭanganyo na muṭuso hafhu



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

2 0

8

Tanganyani nomboro idzo mbili.

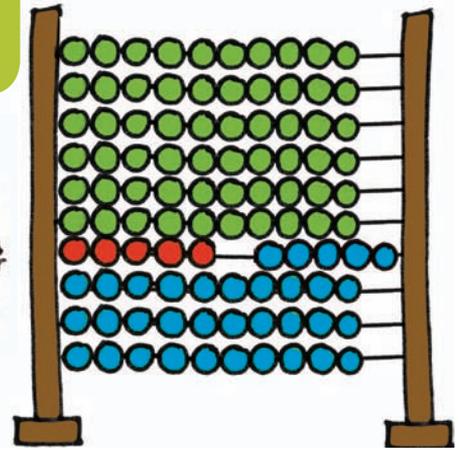
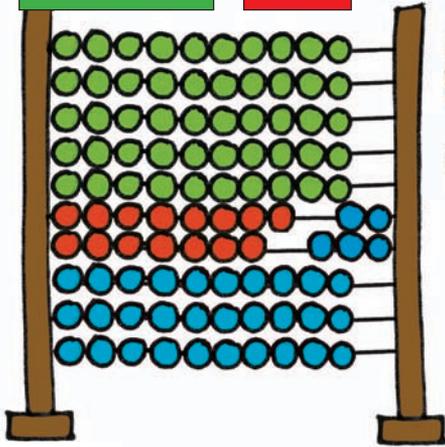
6 0

5

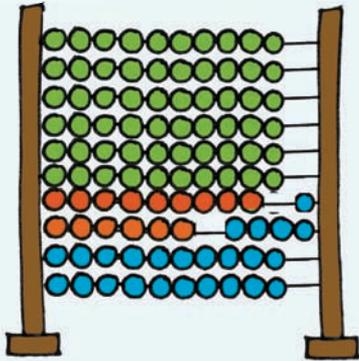
3 0

7

I lingana na.

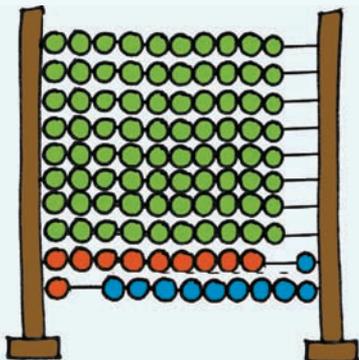


Nwalani mbalo ya u ṭanganya na u ṭusa. I rekanyeni.



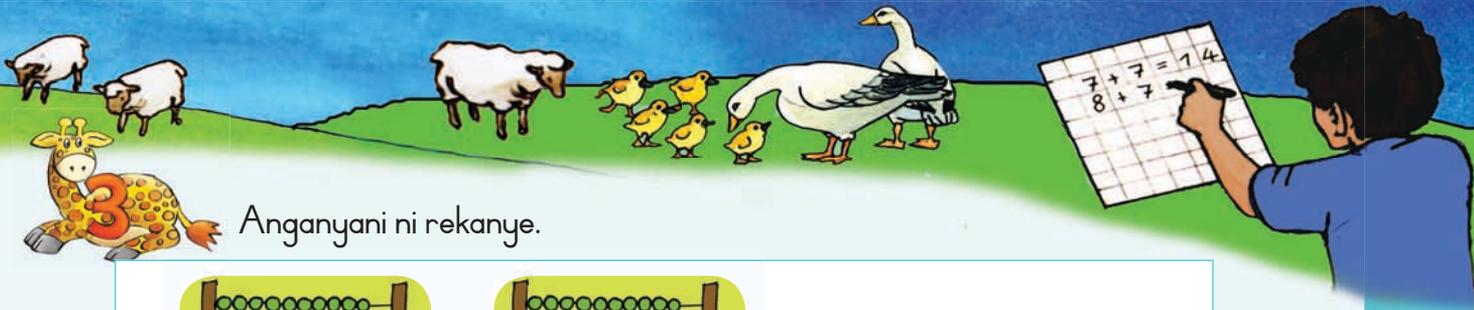
Mbalo ya muṭanganyo

Mbalo ya muṭuso

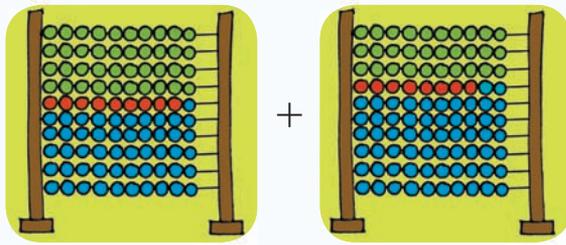


Mbalo ya muṭanganyo

Mbalo ya muṭuso

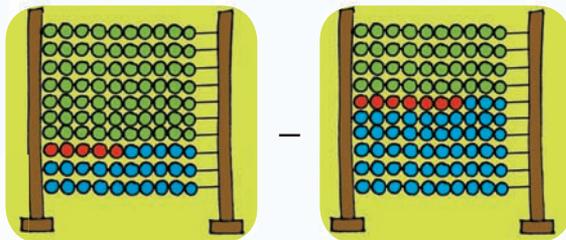


Anganyani ni rekanye.



Anganyani

Rekanyani



Anganyani

Rekanyani



Rekanyani ni tshi shumisa ndila yanu.

$58 + 35$

$34 - 26$

74 na 19 dzi ita mini?

Bvisani 34 kha 72.

Teacher:

Sign:

Date:



Zwiwwe hafhu nga

phetheni dza nomboro na zwivhumbeo

Deithi:



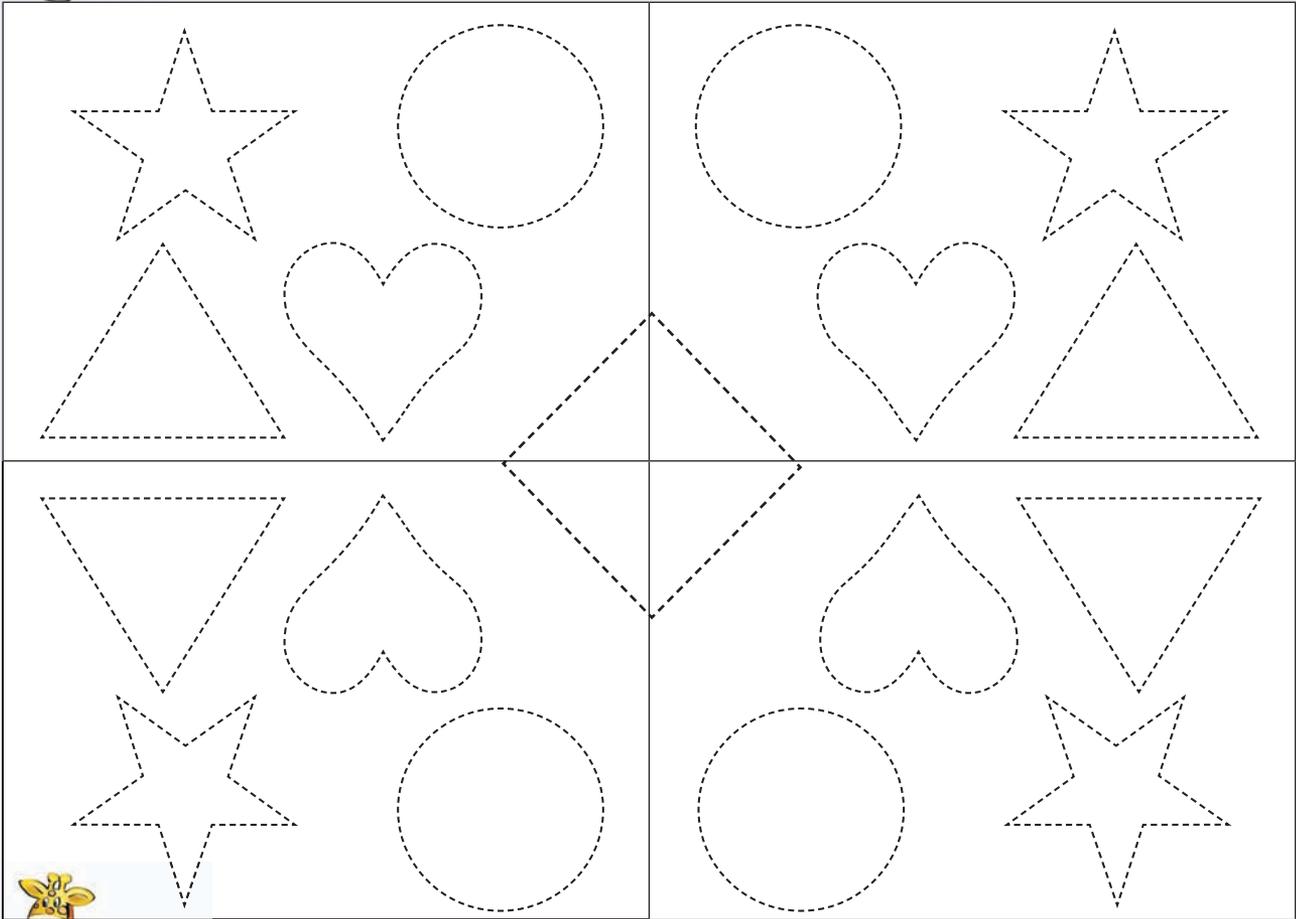
Talutshedzani phetheni.



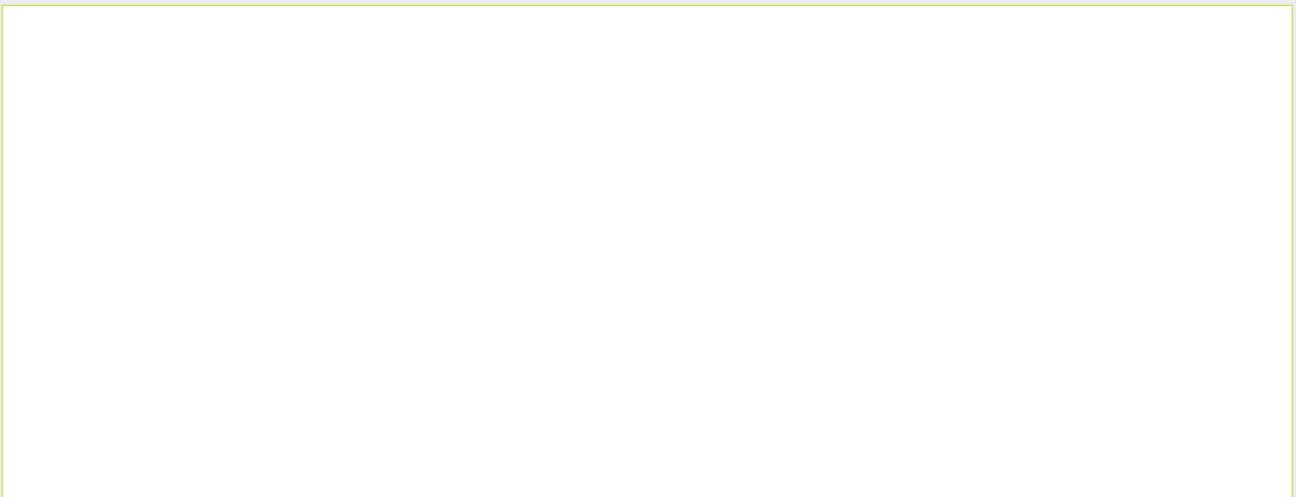
Tevhedzelani phetheni ni i khalare.



Tevhedzelani phetheni ni i khalare.



Itani phetheni yanu inwi munε ni tshi shumisa zwivhumbeo.



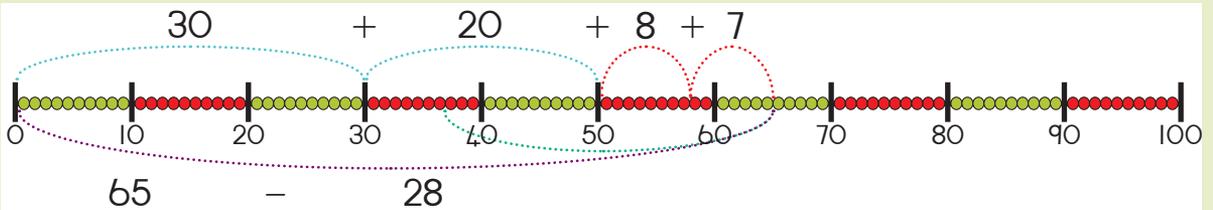
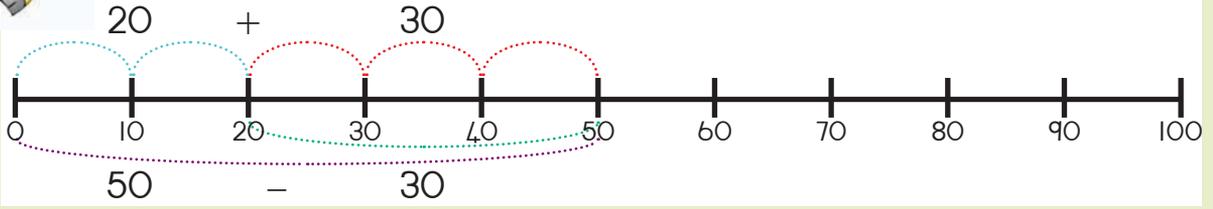


Mutanganyo na Mutuso

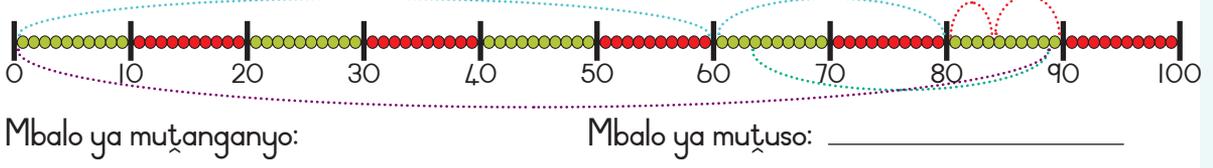
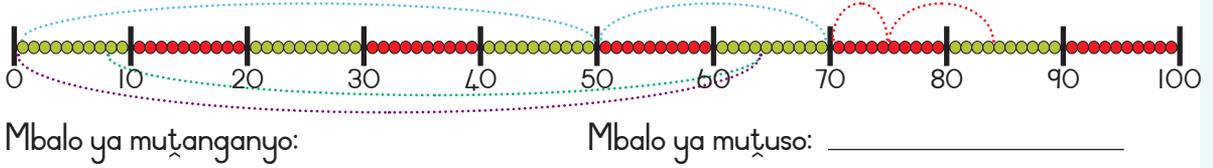
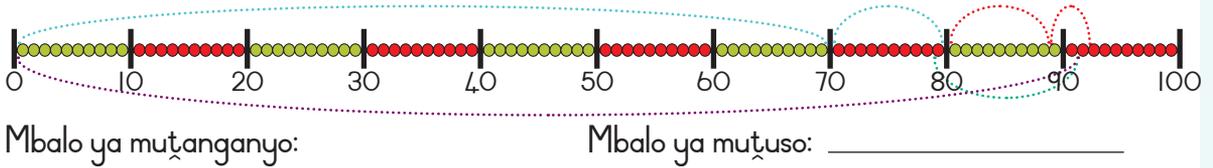
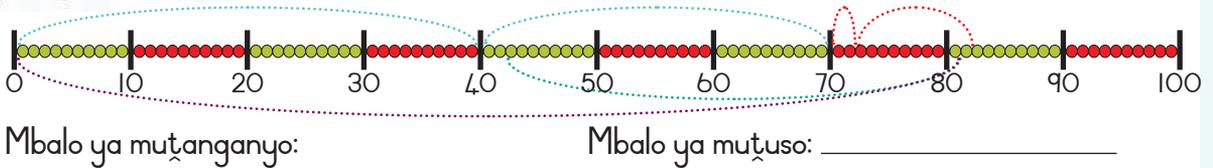
Themo ya 4



Lavhelesani mitalombalo. Ambani ngayo.

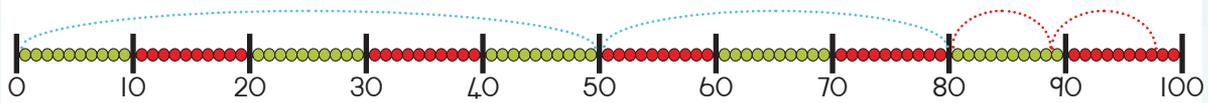


Nwalani mbalo ya mutanganyo na mutuso ni tshi shumisa mitalombalo.

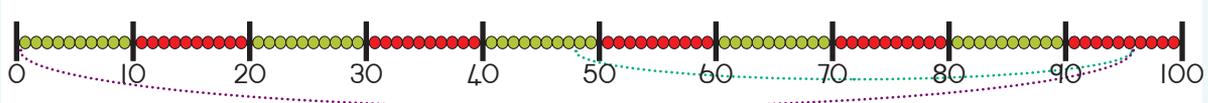




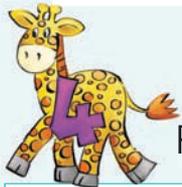
Anganyani ni rekanye tshivhalo tsha malungu.



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: _____



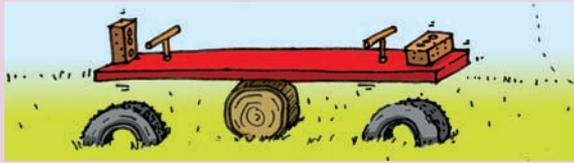
Muṅanganyo na muṅuso hafhuhafhu



Linganyisani masia.

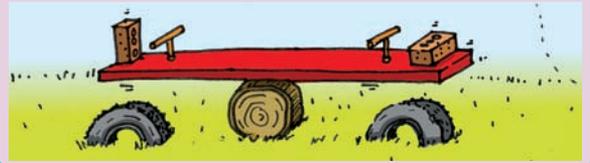
$10 + 4 + 5$

$9 + \square + \square$



$90 - 50$

$\square - 20$



Themo ya 4



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	



Ṭharamudzani phetheni.

25

199

37

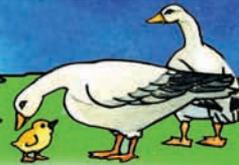
+100

89

175

-100

163



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

90	$-$	20	$+$	5
100	4	3	30	



Lavhelesani nomboro ni ite mbalo nnzhi dzo waniwaho nga mutanganyo na mutuso dzine phindulo yadzo ya vha yo nwalwa kha bodo, tsumbo: $3 + 4 = 7$.



Mutanganyo ndi mini?

2 6 5 7
4 7 3 8 9



Mutuso ndi mini?

4 9 7
5 8 10
6 2 3



Rekanyani zwi tevhelaho ni tshi shumisa ndila yanu. Sumbedzani mirekanyo yotlhe.

$48 + 36$

$85 - 59$



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

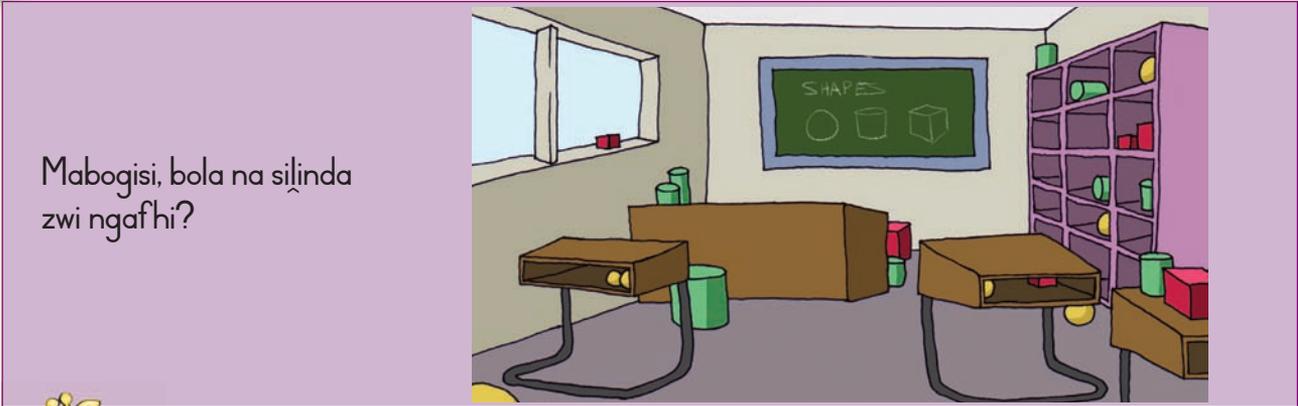
Ndo vhulunga R42 nahone khotsi anga vha mpha R29. Ndi na vhugai?

Ndi na R78 nahone ndo renga tshiteshenari tsha R34. Ndo salelwa nga vhugai?





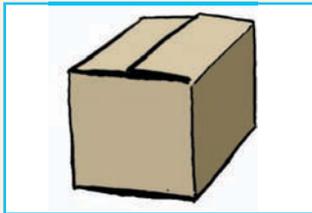
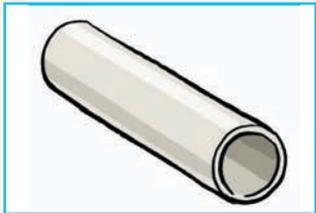
Zwithu zwa 3-D



Mabogisi, bola na silinda zwi ngafhi?



Ambani uri ndi bogisi, bola kana silinda naa.



Wanani zwifanyiso zwa zwithu zwi tevhelaho ni zwi nambatedze hafha.

Bola

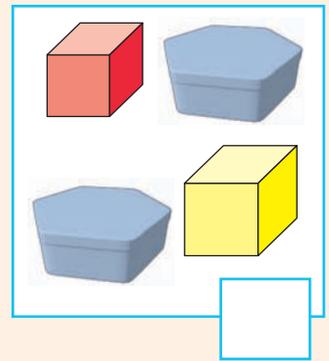
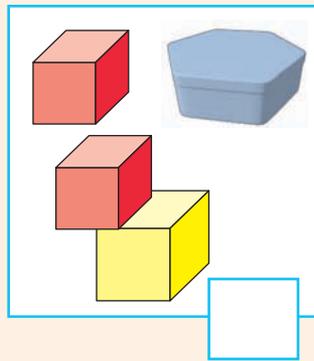
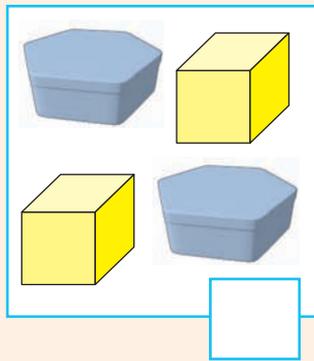
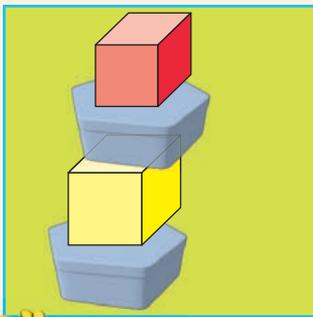
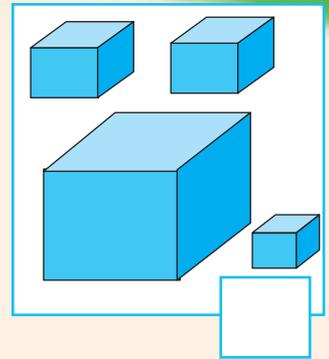
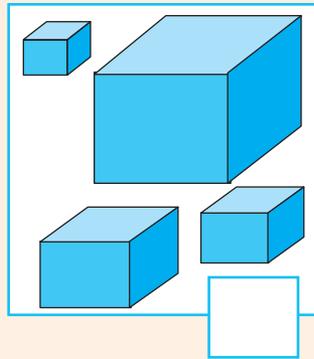
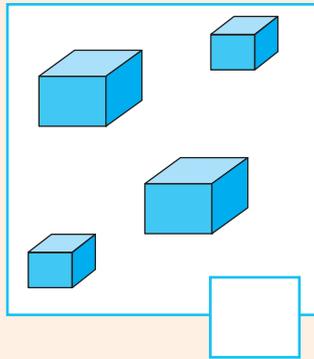
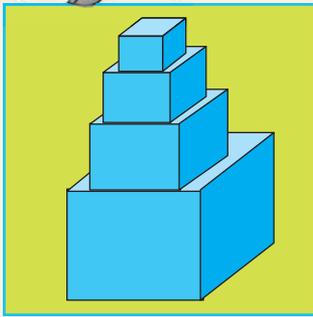
Bogisi

Silinda

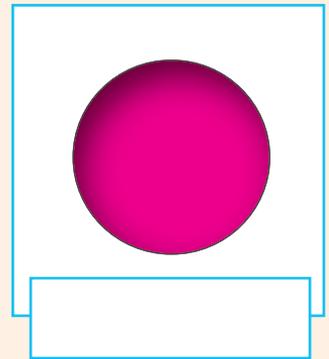
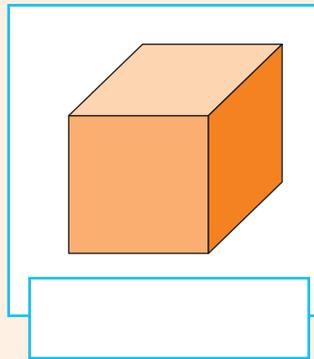
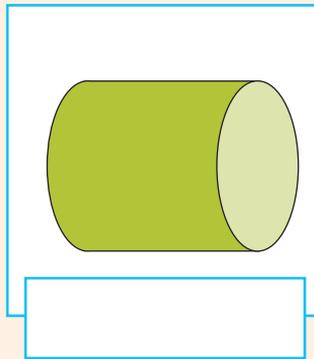
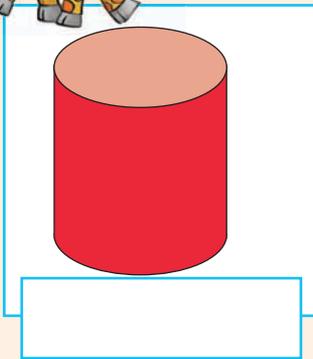




Itani thiki kha sethe yone ya zwithu zwe na zwi shumisa kha u fhaṭa thawara i re kha tsha monde.



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

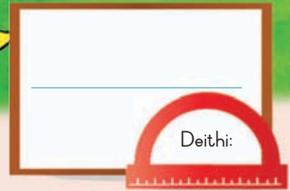
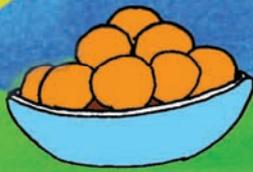


Afho muḍini wa haḡu kana huḡwevho hu na zwithu zwi no nga:

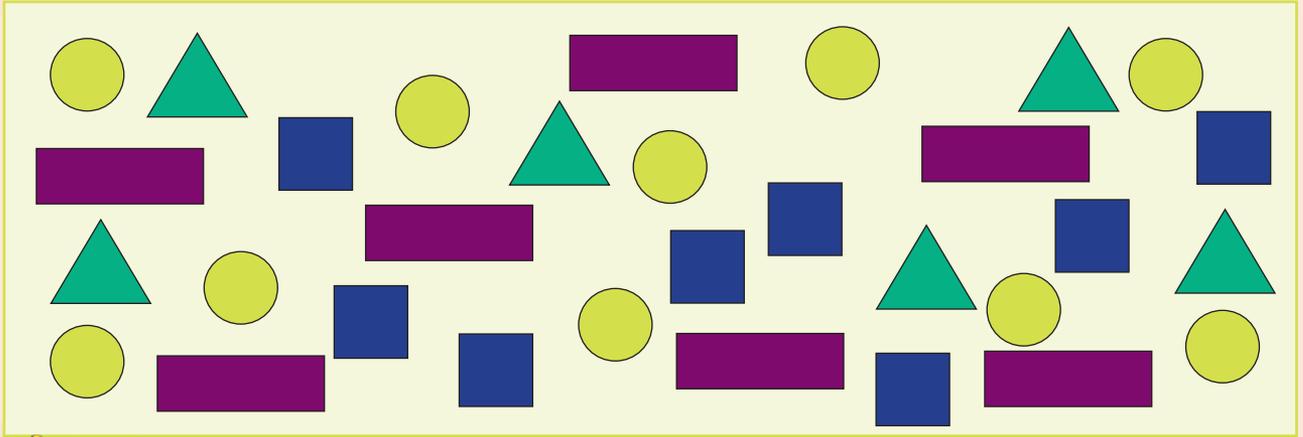
- Silinda
- Bola
- Mabogisi



Teacher: _____
 Sign: _____
 Date: _____



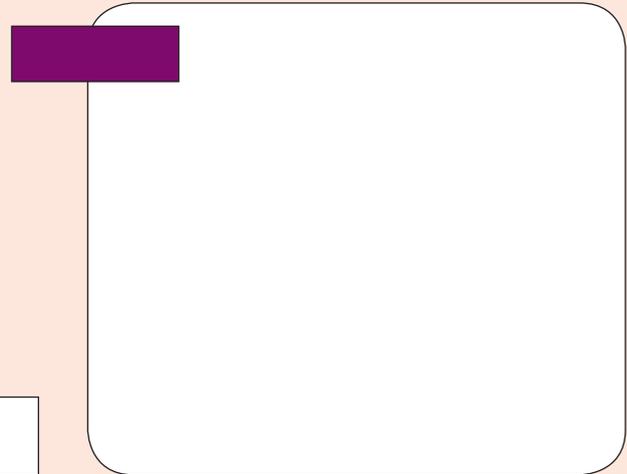
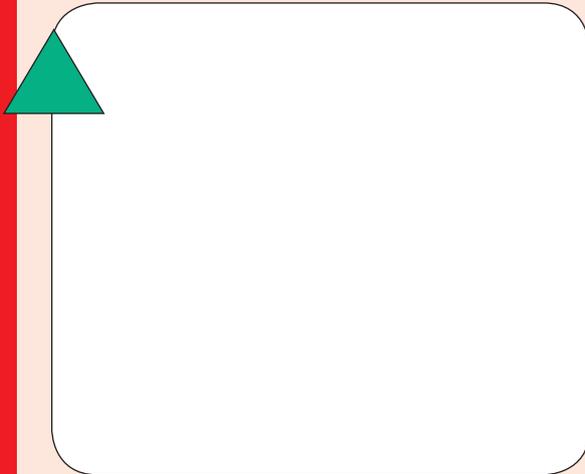
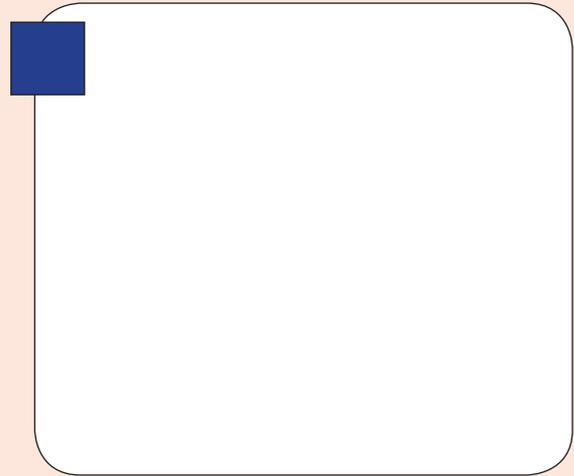
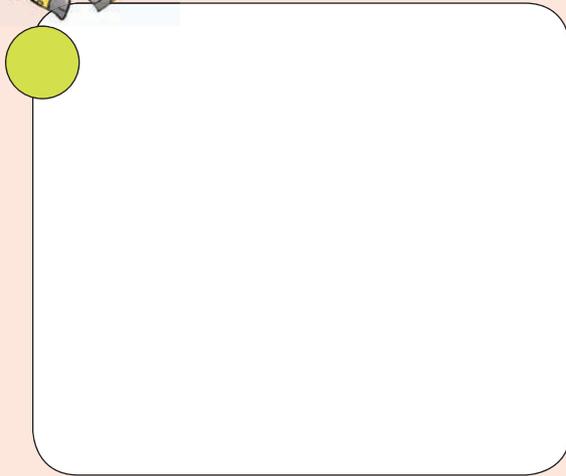
Data hafhuhafhu



Themo ya 4



Nanguludzani zwiwumbeo. Olani nyolo yaṅu ya u zwi sumbedza.
Nwalani thanganyelo tshibogisini.





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 thiraiengele nngana?



Teacher: _____
 Sign: _____
 Date: _____

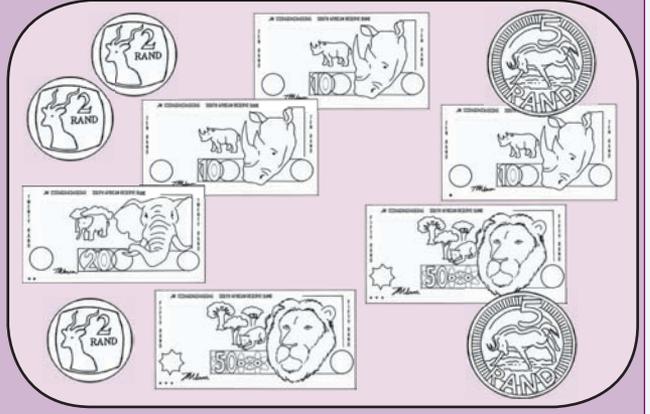


U rekanga tshelede

Themo ya 4

Khalarani khoini dzine dza do ita 95c.

Khalarani tshelede ya mabambiri ine ya do ita R99.



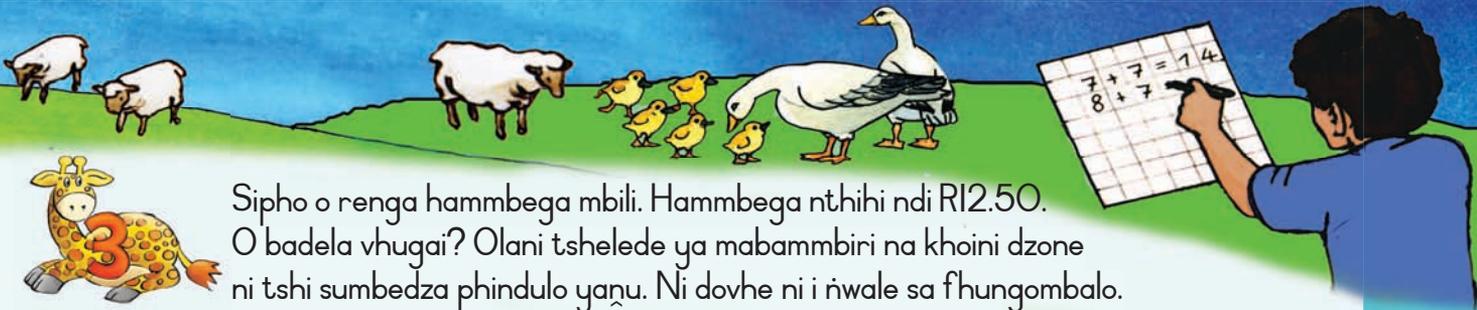
Khalarani khoini dzi no do ni fha? Uyu ndi wone muvango u wothe?

						Ee	Hai
75c							
85c							
90c							



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

							Ee	Hai
R87								
R75								
R94								



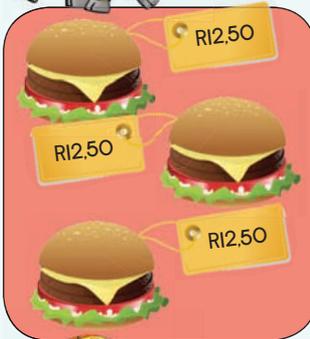
Sipho o renga hambbega mbili. Hambbega nthihi ndi R12.50. O badela vhugai? Olani tshelede ya mabambiri na khoini dzone ni tshi sumbedza phindulo yanu. Ni dovhe ni i n'wale sa f'hungombalo.



Fhungombalo:
 $R12,50 + R12,50 =$



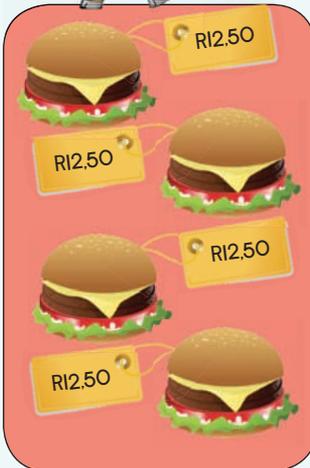
Arali Sipho a nga renga hambbega idzi?



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



Arali Sipho a nga renga hambbega n'na?

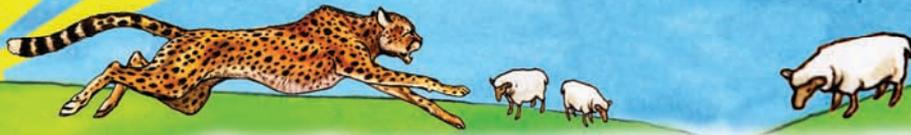


<input type="text"/>	<input type="text"/>	<input type="text"/>	Fhungombalo:
<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	



Sipho a nga kona u renga bega nngana nga R87, 50? Itani nyolo dzi no fana na dzi re afho n'ha uri dzi ni thuse u tandulula mbalo (thaidzo). Shumisani bambiri la dubo.

Teacher: _____
 Sign: _____
 Date: _____



Tandululani mbalo dza tshelede

Ndi nga wana vhugai arali nda na rengisa tshokoleithi dza 10? Lavhesani zwifanyiso ni ise phanda na phetheni.

Tshokoleithi ya 1



Tshokoleithi dza 2



Tshokoleithi dza 3



Tshokoleithi dza 4



Themo ya 4



Shumani 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 Shumani a nga rengisa hothidogo inwe na inwe 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 thebuḽu 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 thebuḽu.

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



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



Ni khou ṱodou renga mafini dza 10. Inwe na inwe i dura R10. Ni ḁo badela vhugai ni tshi renga mafini dza 1, 2, 3, 4, 5, 6, 7, 8, 9 kana 10? Zwi sumbedzeni kha thebuḽu kha bammbiri ḽa dubo.



Teacher: _____

Sign: _____

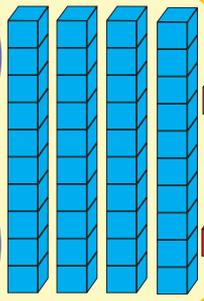
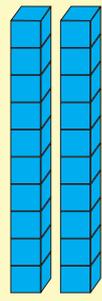
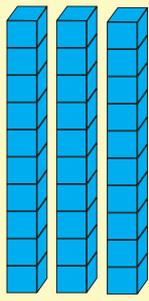
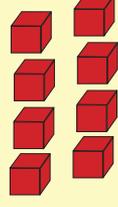
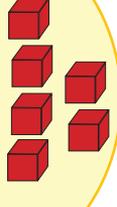
Date: _____



U ita zwiḡwada na u kovhana

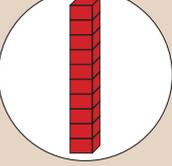
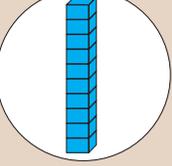
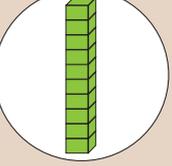
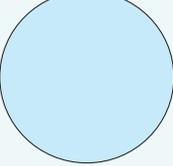
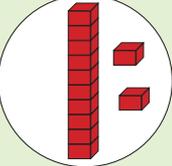
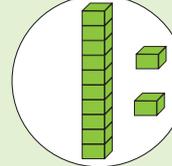
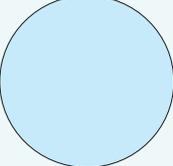
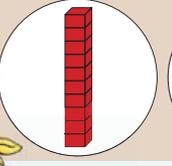
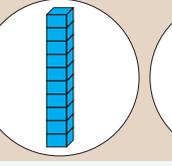
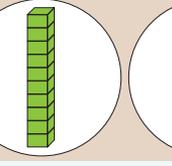
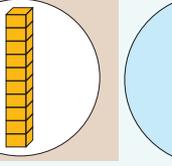
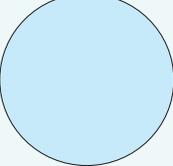
Hu na zwiḡloko zwingana kha tshitendeledzi tshinwe na tshinwe? Zwi kovheni vhukati ha vhana.



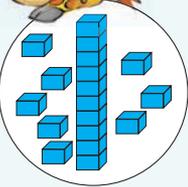
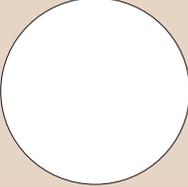
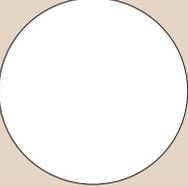
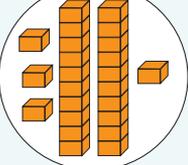
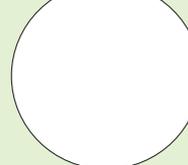
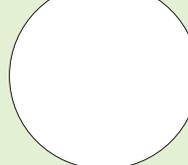
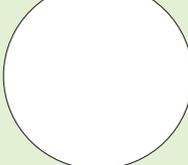


Ndi zwiḡloko zwingana zwi re kha tshitendeledzi tshinwe na tshinwe? Nwalani tḡhanganyelo i re kha tshitendeledzi tsha lutombo.

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



Kovhani zwiḡloko kha zwiḡengeledzi.

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



Olani zwi tevhelaho. Nwalani mbalo ya tshinwe na tshinwe.

zwigwada zwa 3 zwa 2

+ Mbalo ya u tlanganyisa:

× Mbalo ya u andisa:

zwigwada zwa 4 zwa 10

+ Mbalo ya u tlanganyisa:

× Mbalo ya u andisa:

Kovhani zwivhaleli zwa 12 kha vha 4.

— Mbalo ya u tusa:

÷ Mbalo ya u kovha:

Kovhani zwivhaleli zwa 12 kha vha 3

— Mbalo ya u tusa:

÷ Mbalo ya u kovha:



Vhalelani.

zwigwada zwa 2 zwa 7 _____

zwigwada zwa 3 zwa 8 _____

zwigwada zwa 4 zwa 5 _____

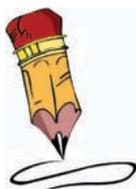
zwigwada zwa 2 zwa 15 _____

Kovhani 18 nga 2 _____

Kovhani 24 nga 3 _____

Kovhani 35 nga 5 _____

Kovhani 50 nga 10 _____



davhulu kovhani



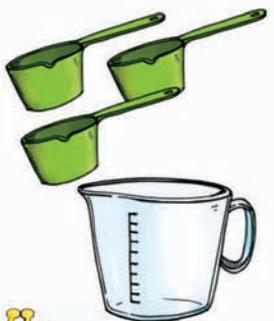
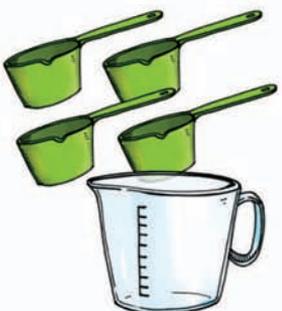
Teacher: _____
 Sign: _____
 Date: _____

Khaphasithi dzinwe hafhu

Lavhelesani zwifanyiso. Vhana vha khou ita mini?



Lebula dzi do dadza dzhege u swika ngafhi? Khaḵarani.



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



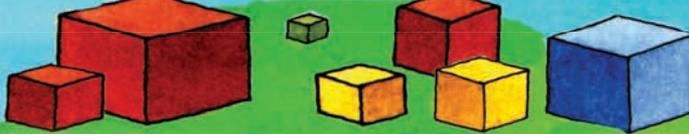
Ni nga dadza nga khaphu nngana dza maḵi?

dzhege dza 2 _____

dzhege dza 3 _____

dzhege dza 4 _____

dzhege dza 5 _____



Ndi lebula nngana hafhu dzine na do toda 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 hafha kana kha bugu ya ndowedzo. Zwi nambatedzeni zwi tshi tevhekana u bva kha zwifaredzi zwi no hwala zwithu zwinzhi u ya kha zwifaredzi zwi no fara zwithu zwiṭuku.



Teacher: _____

Sign: _____

Date: _____

Phetheni dza nomboro

Deithi:

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 dzi no khou ṭahela.

The activity consists of five zigzag paths, each ending in a small robot-like character. The paths are as follows:

- Path 1 (Squares):** 103, 104, [], [], [], 108, [], [], [], []
- Path 2 (Circles):** [], 142, 144, [], [], 150, [], [], [], []
- Path 3 (Triangles):** [], [], [], 103, 106, 109, [], [], [], []
- Path 4 (Stars):** 124, 128, 132, [], [], [], [], [], [], []
- Path 5 (Diamonds):** [], [], [], 95, [], 105, [], 115, [], []



Fhedzisani zwi tevhelaho ni tshi vhala ni tshi humela murahu.

128	126	124			118				
160	157	154							
200	195	190							



Fhedzisani zwi tevhelaho:

100, 102, 104, ____, ____, ____, ____, ____

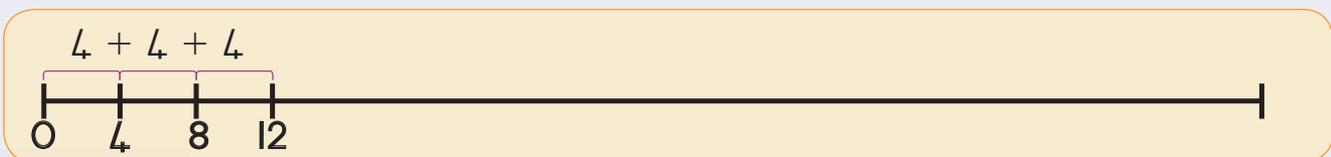
160, 155, 150, ____, ____, ____, ____, ____

115, 118, 121, ____, ____, ____, ____, ____

200, 190, 180, ____, ____, ____, ____, ____



Fhedzisani mutalombalo.



Ri vhala nga mini?

4	20
8	
16	12

2	8	14
		12
10	4	6

5	25	15
		20
30	10	

3	21
15	6
18	9
	12

Teacher: _____
Sign: _____
Date: _____



Muandiso wa 3

Themo ya 4

Phukha dzothe dzi na milenzhe ya 4.

Phukha dzothe dzi na ndevhe 2.



mbevha dza 3
dza mabofu



zwivhingwi zwa 3
zwituku



zwiguluzwana zwa 3

Tshivhaloguthe tsha milenzhe
tshifanyisoni itshi ndi tshifhio?

Tshivhaloguthe tsha ndevhe
tshifanyisoni itshi ndi tshifhio?



Lavhelesani tshifanyiso ni fhedzise zwi tevhelaho.



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

Tshivhalo Milenzhe nga
tsha mbevha tshipuka

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

Tshivhalo Milenzhe nga
tsha mbevha tshipuka



Fhedzisani zwi tevhelaho:

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

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



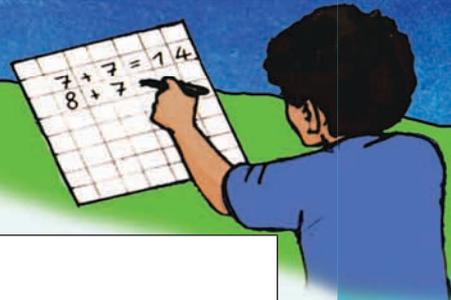
Fhedzisani zwi tevhelaho:

5 ×  = maapula a

4 ×  = miomva ya

6 ×  = miomva ya

7 ×  = maapula a



Fhedzisani zwi tevhelaho:

$$13 \times 3 = \square$$

$$10 \text{ (teal)} + 3 \text{ (red)} \times 3$$

$$= 10 + 3 \times 3$$

$$= 10 \times 3 + 3 \times 3$$

$$= 30 + 9$$

$$= 39$$



$$15 \times 3 = \square$$

$$10 \text{ (teal)} + 5 \text{ (red)} \times 3$$

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

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

$$= \square + \square$$

$$= \square$$



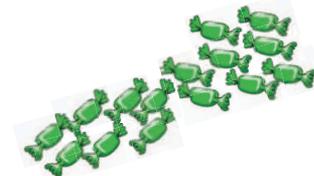
Khonani mbili dzo wisa kheisi dzadzo dza penisela. Vha na tshiṭeshenari tshi no fana kwaa. Vha thuseni uri vha vhuyedzedze zwithu zwavho.



Fhedzisani zwi tevhelaho:

Kovhelani tshokoleithi iyi vhana vha 2 nga u edana.

Kovhelani malegere a 15 vhana vha 3 nga u edana.



Muṅwe na muṅwe
u wana

Muṅwe na muṅwe
u wana



Olani tshifanyiso ni tshi sumbedza phindulo dzaṅu.

Kovhelani thofi dza 9 vhana vha 3 nga u edana.

Kovhelani vhana vha 3 kharayoni dza 16. Hu ḑo vha na kharayoni dzi no ḑo sala?

Muṅwe na muṅwe
u wana

Muṅwe na muṅwe
u wana



Teacher: _____
Sign: _____
Date: _____



Muandiso wo vanganaho

Lavhelesani zwi tevhelaho. Ni vhona mini?

$$5 + 5 + 5 = 15$$



$$\text{zwickhuvhugu zwa } 3 \text{ zwa } 5 = 15$$



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

$$\text{zwigwada zwa } 3 \text{ zwa } 5 \text{ ndi } 15$$

$$3 \times 5 = 15$$

$$5 \times 3 = 15$$



Fhedzisani thebuḽu i re afho fhasi. Tsumbo i ḽo ni dededza.

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



Zwi nga dzhia tshif hinga tshingaf hani u ita zwi tevhelaho?

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

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



Fhindulani mbudziso dzi tevhelaho.

ṭhanu n̄na	
6 kavhili (davhulu)	
6 andisa nga 5	
2 andisa nga 4	
8 andisa nga 2	



Dzhenisani nomboro vhudzuloni ha pfarelavhudzulo.

zwingwada zwa 3 zwa 2 ndi 6 kana 3 andisa nga 2 ndi 6 kana $3 \times 2 = \square$	
zwingwada zwa 4 zwa 3 ndi 12 kana 4 andisa nga 3 ndi 12 kana $4 \times 3 = \square$	
zwingwada zwa 6 zwa 3 ndi 18 kana 6 andisa nga 3 ndi 18 kana $6 \times \square = 18$	

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

Teacher: _____

Sign: _____

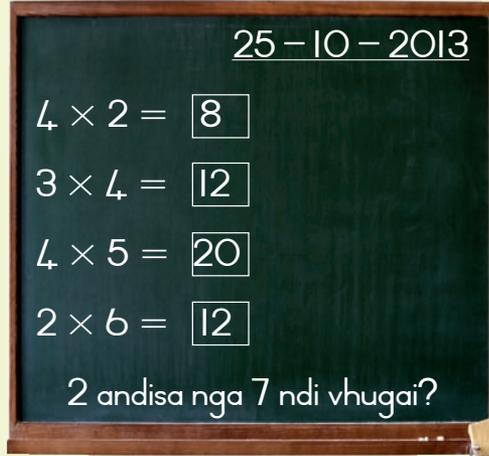
Date: _____



Muandiso muṅwe hafhu

Sedzani tsumbo.

Muandiso ndi
mini?



$$1 \times 5 = 5$$

$$2 \times 5 = 10$$

$$3 \times 5 = 15$$

$$4 \times 5 = 20$$

$$5 \times 5 = 25$$

$$6 \times 5 = 30$$

$$7 \times 5 = 35$$

$$8 \times 5 = 40$$

$$9 \times 5 = 45$$

$$10 \times 5 = 50$$

Fhedzisani:

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

Shumisani ṅḁila yaṅu kha u tandulula izwi.

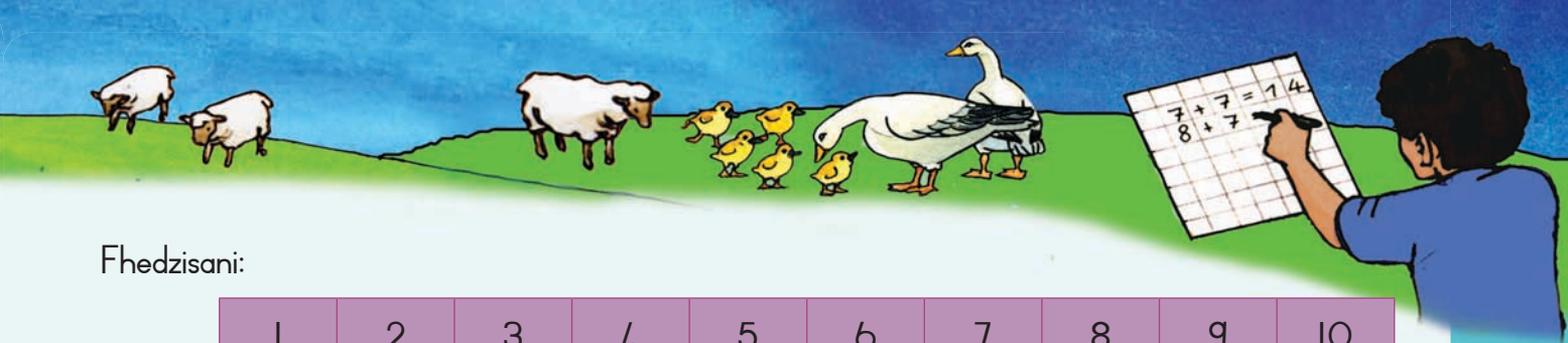
12×2	16×2
---------------	---------------

Fhedzisani

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

Shumisani ṅḁila yaṅu 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.

11×4	14×4
---------------	---------------

Fhedzisani:

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

Shumisani ndila yanu kha u tandulula izwi.

12×5	16×5
---------------	---------------



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: _____

Maḍuvha a vhege



Dzudzanyani maḍere a maḍuvha a Vhege.

uvhiliḽavh

dahaSwon

mbuluwoMusu

uraruḽavh

hunaḽav

ivhelaMug

huḽanuḽav

Dzhenisani maḍuvha a no khou ḽahela.

Musumbuluwo

ḽavhuraru

Swondaha

ḽavhuvhili

ḽwalani maḍuvha a vhege.

Swondaha

--	--	--	--	--	--	--

Ndi maḍuvha mangana u bva:

Musumbuluwo u swika ḽavhuḽa? _____

ḽavhuvhili u swika ḽavhuḽanu? _____

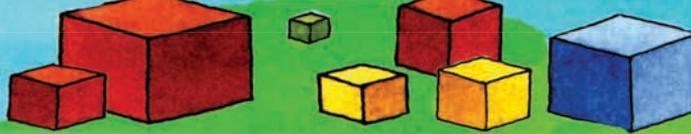
ḽavhuḽa u swika Mugivhela? _____

Hu na maḍuvha mangana vhukati ha:

ḽavhuvhili na Mugivhela? _____

ḽavhuraru na ḽavhuḽanu? _____

ḽavhuḽa na Swondaha? _____



Minwedzi ya n̄waha



Dzudzanyani maḽedere a minwedzi ya n̄waha.

andoPh	huhilu	Fulwana	medziTshi
raLa	avhusikuNyend	nguleṬha	lwiFu
muhweṬhafa	unthuleShund	bamaiLam	bvumedziKhu



Hu na maḽuvha mangana kha n̄wedzi muḽwe na muḽwe?

Phando	Luhuhu	Ṭhafamuhwe	Lambamai
31			
Shundunthule	Fulwi	Fulwana	Ṭhangule
Khubvumedzi	Tshimedzi	ḽara	Nyendavhusiku



Dzhenisani n̄wedzi wo teaho.

Ni elelwe uri ndi dzina ḽa n̄wedzi, zwino ḽi tea u thoma nga ḽederedanzi



Ndi ufhio u no rangela Ṭhafamuhwe? _____

Ndi ufhio u no rangela Fulwi? _____



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

Khubvumedzi? _____

ḽuvha ḽanu ḽa mabebo? _____





Maḍuvha, vhege ya na miḥwedzi

Nyendavhusiku 2015

Swondaha	Musumbuluwo	Ḳavhuvhili	Ḳavhuraru	Ḳavhuḅa	Ḳavhuḅanu	Mugivhela
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				



Lavhelesani khalenda ni fḥindule zwi tevhelaho:

Ḳuvha Ḳa u thoma nga Nyendavhusiku ndi Ḳa vhungana? _____

Ḳuvha Ḳa vhufumithanu nga Nyendavhusiku ndi Ḳa vhungana? _____

Ḳuvha Ḳa vhufumbiliḅa nga Nyendavhusiku ndi Ḳa vhungana? _____

Ḳuvha Ḳa vhufumimbili nga Nyendavhusiku ndi Ḳa vhungana? _____



Fḥindulani mbudziso idzi:

Hu na maḍuvha mangana nga Nyendavhusiku? _____

Hu na Vhege ya nngana nga Nyendavhusiku? _____

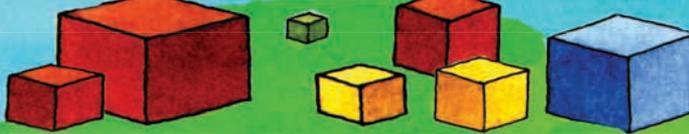
Hu na maḍuvha mangana kha Vhege ya? _____

Zwikolo zwi khou vala lini nga Nyendavhusiku? _____

Hu bvelela mini nga Ḳa 25 Ḳa Nyendavhusiku? _____

Hu bvelela mini nga Ḳa 31 Ḳa Nyendavhusiku? _____

Ndi Ḳuvha liḥio Ḳi no tevhelela Ḳa 31 Ḳa Nyendavhusiku? _____



Khalarani nomboro dzotlhe dza odo nga muvhala wa ṭada kha khalenda.

Ni vhona mini? _____

Khalarani ivini dzotlhe nga muvhala mutswuku kha khalenda.

Ni vhona mini? _____



Fhedzisani khalenda. Dzhenisani riwaha na deithi.

Lambamai _____

Swondaha	Musumbuluwo	Ḷavhuvhili	Ḷavhuraru	Ḷavhuṅa	Ḷavhuṅanu	Mugivhela
						
						
						
						
						



Ndi datumu ifho nga ḍuvha liḽhio?

	Deithi	Ḍuvha
		
		
		
		
		
		
		



Ndi maḽuvha mangana u bva kha:

	u ya kha:		
	u ya kha:		
	u ya kha:		
	u ya kha:		



Zwiñwe hafhu nga phetheni dza nomboro

Talutshedzani phetheni dzi re kha bodo inwe na inwe.

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150

151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

Fhedzisani phetheni.

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



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 fhedzisa 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

Tangedzalani nomboro nga mivhala uri zwi ni thuse u tandulula mbalo.



Dzhenisani nomboro yo t̄ahelaho ni tshi fhedzisa 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, 11, 76,

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

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



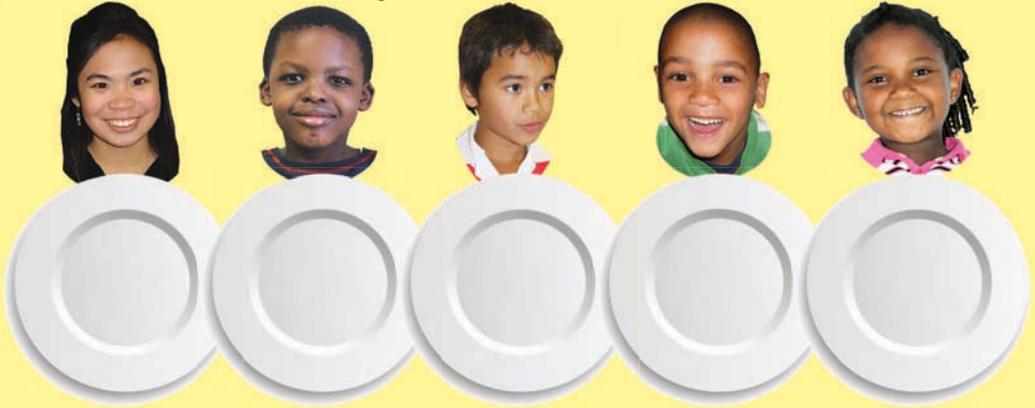
Teacher: _____
Sign: _____
Date: _____



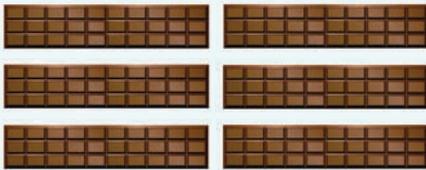
U kovhekana nga u lingana zwi ri isa kha furakhisheni (zwapida)



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.

Nwana muñwe na muñwe u wana tshararu tsha tshokoleithi.

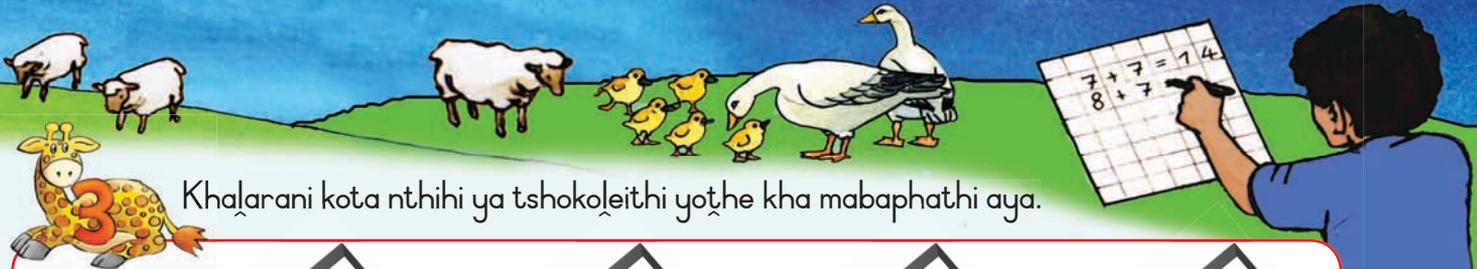


Ni na khekhe dza 3. dzi kovheni nga u lingana kha khonani dza 4.

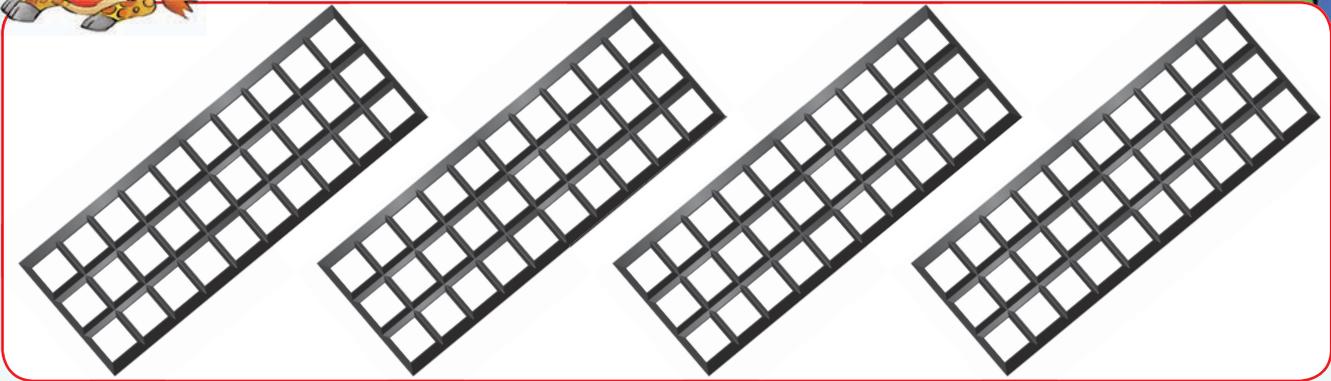


Sumbedzani phindulo yanu nga u ola tshifanyiso afho fhasi.

Nwana muñwe na muñwe u wana _____ tsha khekhe.



Khalarani kota nthihi ya tshokoleithi yothe kha mabaphathi aya.

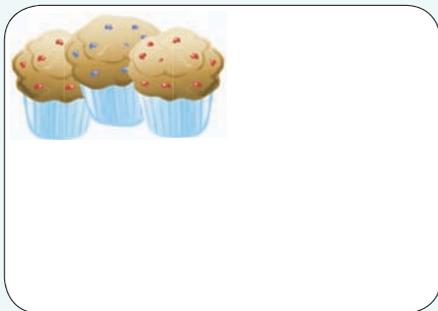
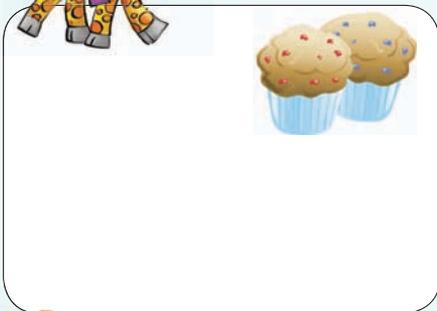


Ndi zwi buloko zwingana zwa tshokoleithi zwi no ita kota? _____

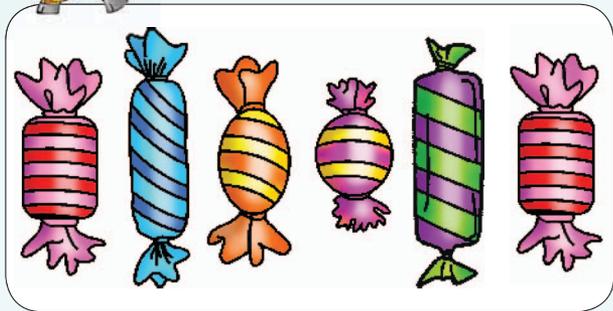
Khalarani tshatshanu tsha tshokoleithi dzothe kha mabaphathi aya. _____



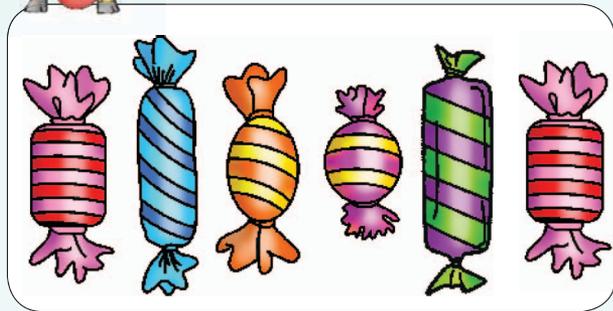
Sumbedzani hafu ya zwi tevhelaho.



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: _____

Vhulapfu

Deithi:



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



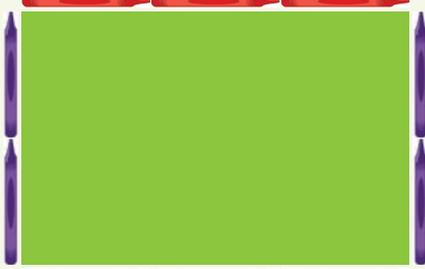
Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



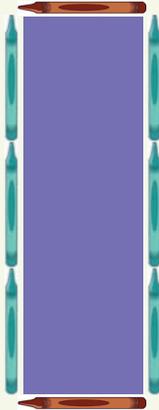
Fhindulani zwi tevhelaho.



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



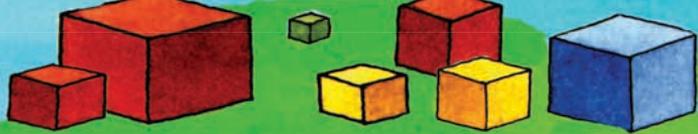
Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



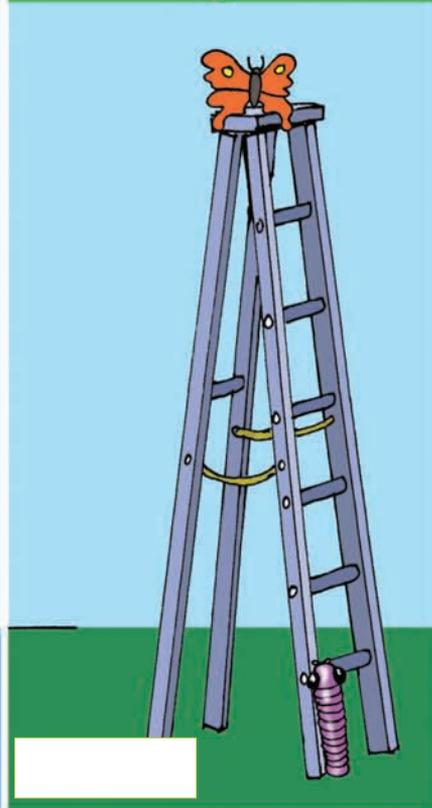
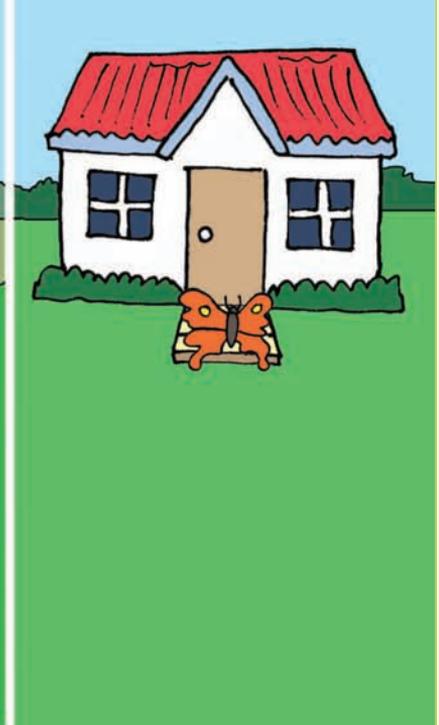
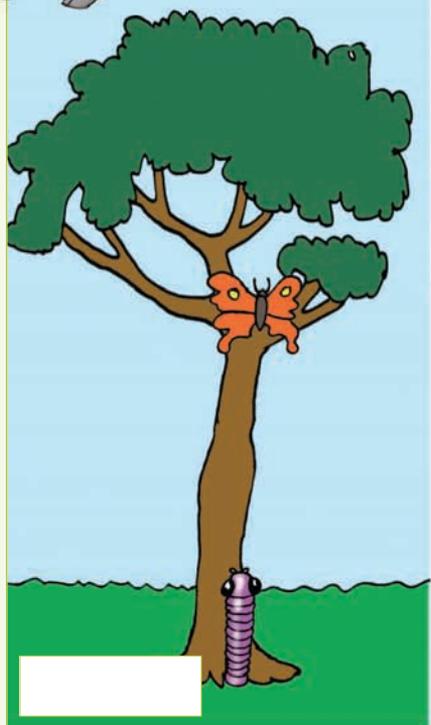
Sia lilapfu ndi khirayoni dza _____.
Sia lipfufhi ndi khirayoni dza _____.



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



Arali zivhangu zwa nga bebana, zwi do dzhia zivhangu zwingana u swika kha tshisusu?

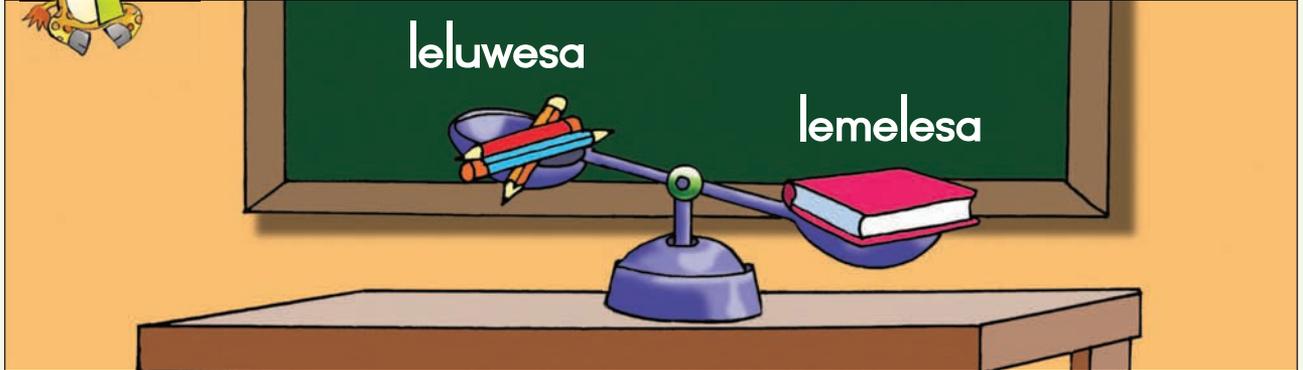


Teacher: _____
Sign: _____
Date: _____

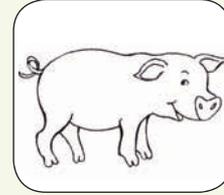
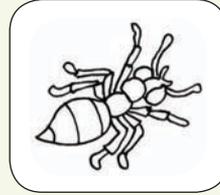
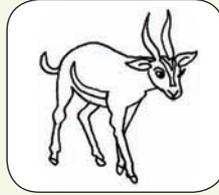
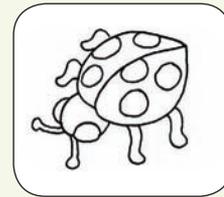
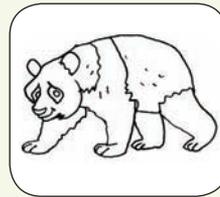
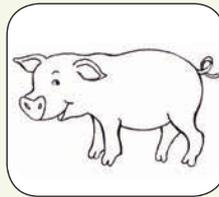
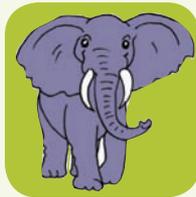
U lemelesa na u leluwesa

Deithi:

U lemelesa na u leluwesa?



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

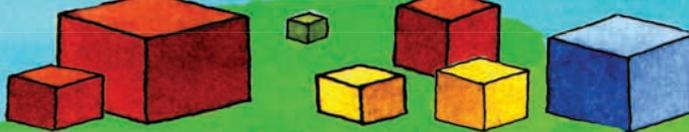


Khalarani tshifanyiso kana zwifanyiso zwi no sumbedza zwithu zwi no leluwa u fhira zwi re kha tshibuloko tshidala.



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





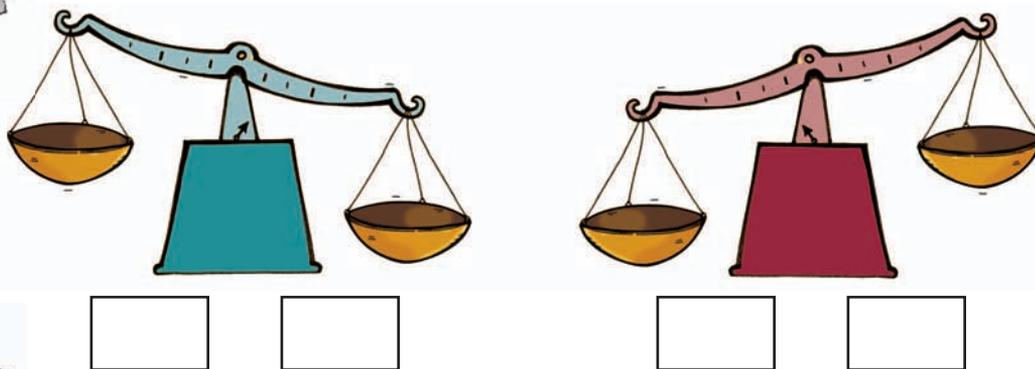
Bulani uri zwikalondinganyiso zwi a lingana naa kana hai.



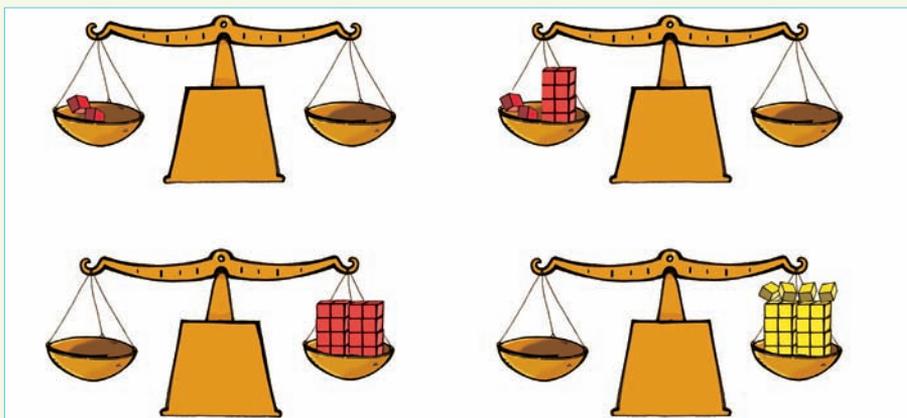
Itani uri zwikalondinganyiso zwi lingane. Itani nyolo kha zwikalo zwi si na tshithu.



Olani tshifanyiso tsha uri zwikalondinganyiso zwi vhe zwone.



Engedzani zwibuloko uri zwikalo zwi lingane  =  

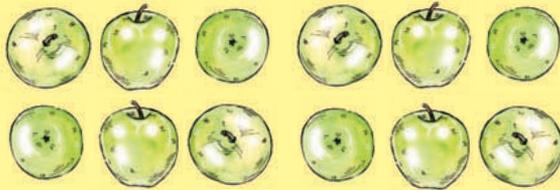


Teacher: _____
Sign: _____
Date: _____



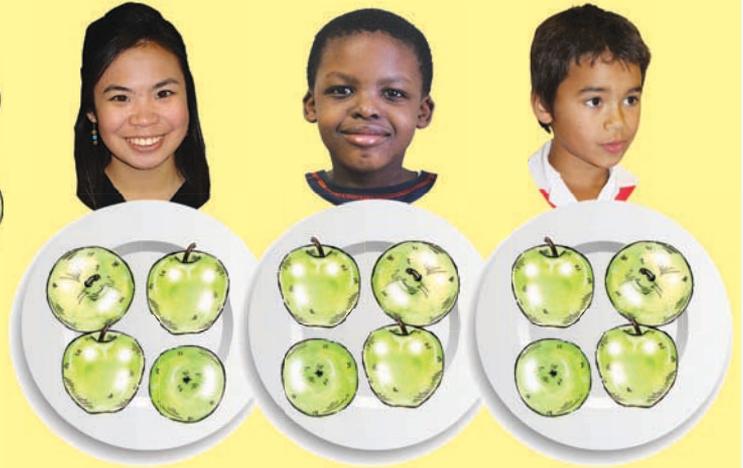
U kovhekana nga u lingana zwi ri isa kha furakhisheni (zwipida) hafhu

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 n̄ha ni fhedzise zwi tevhelaho.

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

Activity box with 5 bunches of bananas at the top, 5 empty white plates in the middle, and a blank white box at the bottom for writing.

Activity box with 10 oranges in a row at the top, 6 empty white plates in the middle, and a blank white box at the bottom for writing.

Activity box with 10 pineapples in a row at the top, 4 empty white plates in the middle, and a blank white box at the bottom for writing.

Activity box with 8 pineapples in a row at the top, 3 empty white plates in the middle, and a blank white box at the bottom for writing.

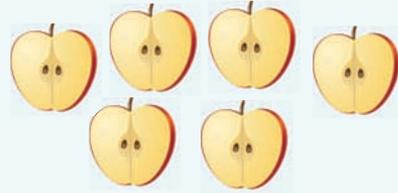


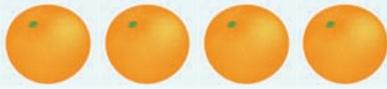
Makhulu vha fha Kutelani maswiri a 12. Kutelani u ita dzhusi nga tshararu tshao. O shumisa maswiri mangana?



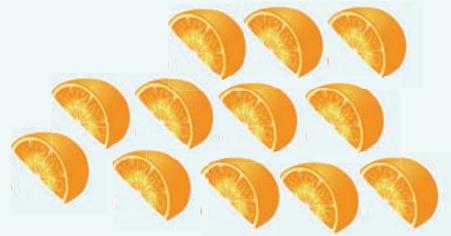
Maapula mararu  a tshewa a bva dzihafu.

Ndi vhana vhangana vhane muṅwe na muṅwe wavho a ḁo wana hafu? _____

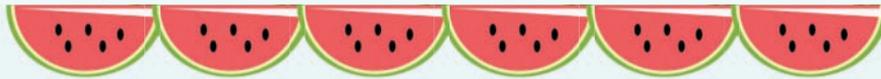
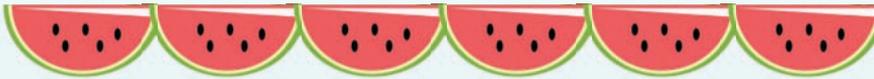


Maswiri maṅa  a tshewa a bva zwipiḁa zwa tshararu.

Ndi vhana vhangana vhane muṅwe na muṅwe wavho a ḁo wana tshararu? _____



Mabvani mavhili  a tshewa a bva zwipiḁa zwa tsharathi.



Ndi vhana vhangana vhane muṅwe na muṅwe wavho a ḁo wana tsharathi? _____



Mugudisi wa netibolo vha ṅea mutambi muṅwe na muṅwe swiri. Hu na vhatambi vha 14. Vha fanela u vha vhe na maswiri mangana?

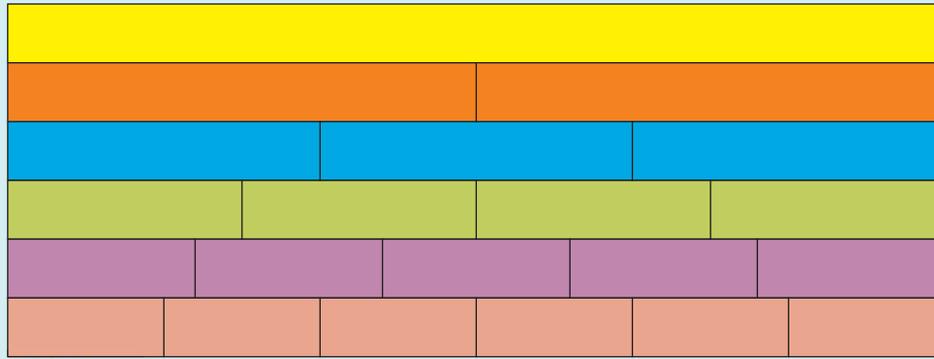


Teacher: _____
Sign: _____
Date: _____



Furakhisheni

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

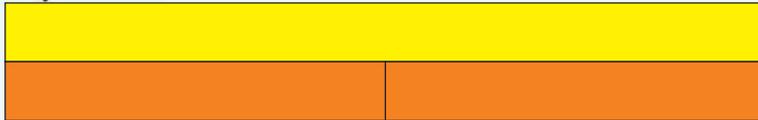


- tshararu
- tshathanu
- hafu
- tsharathi
- kota

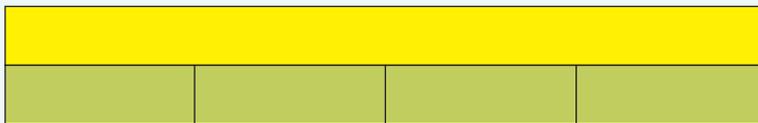
Themo ya 4



Fhedzisani zwi tevhelaho.



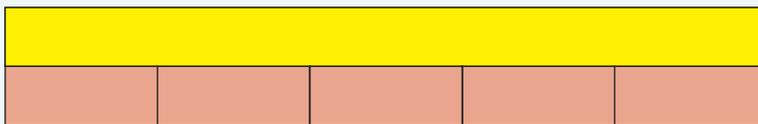
Hafu dza 2 dzi fana na _____ yothe.



Kota dza 4 dzi fana na _____ yothe.



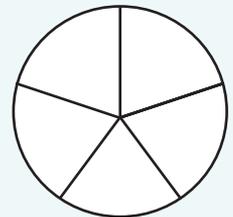
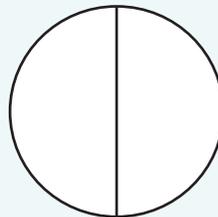
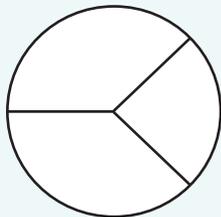
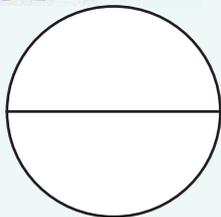
Zwararu zwa 3 zwi fana na _____ yothe.



Zwathanu zwa 5 zwi fana na _____ yothe.



Khalarani zwi tevhelaho. Ni vhona mini?





Bulani uri ndi furakhisheni nngafhani ya tshivhumbeo tshinwe na tshinwe ye ya swif hadzwa. Nwalani nga maipfi.

hafu

[Empty box]

[Empty box]

[Empty box]



Olani zwifanyiso ni tshi sumbedza zwi tevhelaho. Shumisani zwikwea, rekithiengele na zwitendeledzi.

tshararu

hafu

kota

tshatshanu

Humbelani mubebi kana muundi wanu zwine a do renga:

- Hafu nthihi ya:
- Tshararu tsha:
- Kota ya:
- Tsharathi tsha:

○
□
△

Teacher: _____
Sign: _____
Date: _____



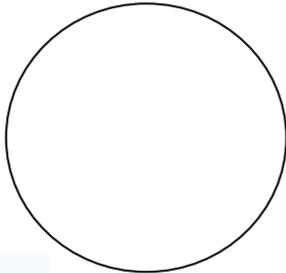
Furakhisheni hafhu

Ni nga tama u la tshil^{ai} tsha ifhio khekhe? Ngani?

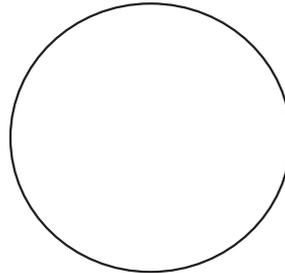


Khonani yanu u ni humbela uri ni kovhekanye pitza i bve zwil^{ai} zwi no lingana. Olani tshifanyiso ni tshi sumbedza tshinwe na tshinwe tsha izwi.

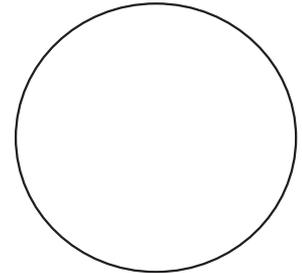
Dzihafu



Zwa tshararu



Dzikota



Itani thiki kha phindulo i re yone.

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

- Hafu nthihi ya pitza kana
- Pitza yothe?

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

- Tshararu tsha pitza kana
- Pitza yothe?

Lufu, Sundani, Lerato na Palesa vho la pitza nthihi yothe. Vho la pitza nngafhani?

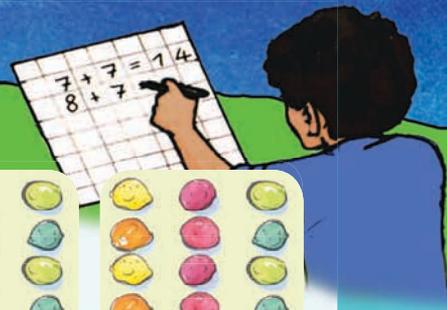
- Kota nthihi kana
- Kota nna?

Fhindulani mbudziso dzi tevhelaho:

- Arali nda khethekanya pitza ya bva zwathhanu, ndi zwathhanu zwingana zwine ra tea u la uri ri vhe ro la pitza yothe? _____
- Arali nda khethekanya pitza ya bva zwarathi, ndi zwarathi zwingana zwine ra tea u la uri ri vhe ro la pitza yothe? _____



Tshigwada tshiṅwe na tshiṅwe tsha dzikhonani tshi wana phakhethe tshukhu ya maḷegere a dzheḷi a zwipulumbu.



Tshigwada	1	2	3
Vhana vha re kha tshigwada	2	3	4
Khonani iṅwe na iṅwe i do wana maḷegere mangana a dzheḷi a zwipulumbu arali vho kovhelwa a no lingana?			
Itani thiki kha tshigwada tshine na tama u vha khatsho. Ndi ngani?			
Zwi tevhelaho zwi do vha maḷegere mangana? Ni vhona mini?	Hafu mbili	Zwararu zwiraru	Kota nṅa



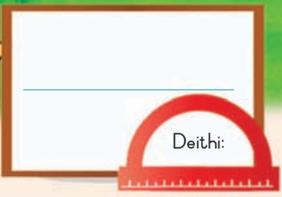
Khaḷarani furakhisheni i no fana na nthihi yoṅhe.

Match the following terms:

- kota tharu
- tshararu tshithihi
- kota mbili
- zwaṅhanu zwiraru
- zwararu zwivhili
- hafu nthihi
- zwaṅhanu zwiṅanu
- zwaṅhanu zwivhili
- hafu mbili
- zwaṅhanu zwina
- zwaṅhanu zwivhili
- kota nthihi
- zwararu zwiraru

Ni nga takalela zwifhio, kota nṅa dza tshikoleithi kana tshokoleithi nthihi yoṅhe? Ndi ngani?

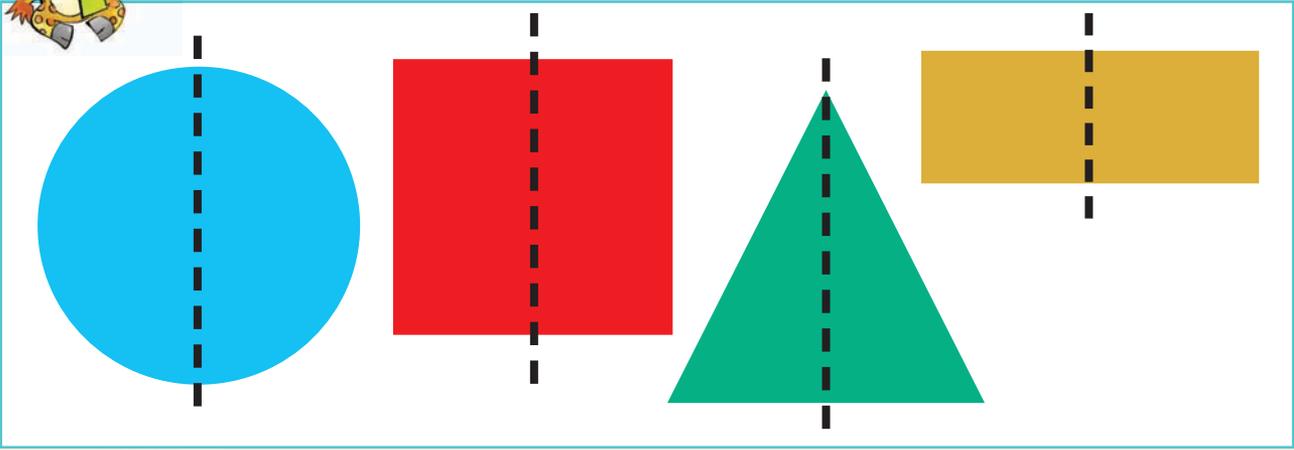
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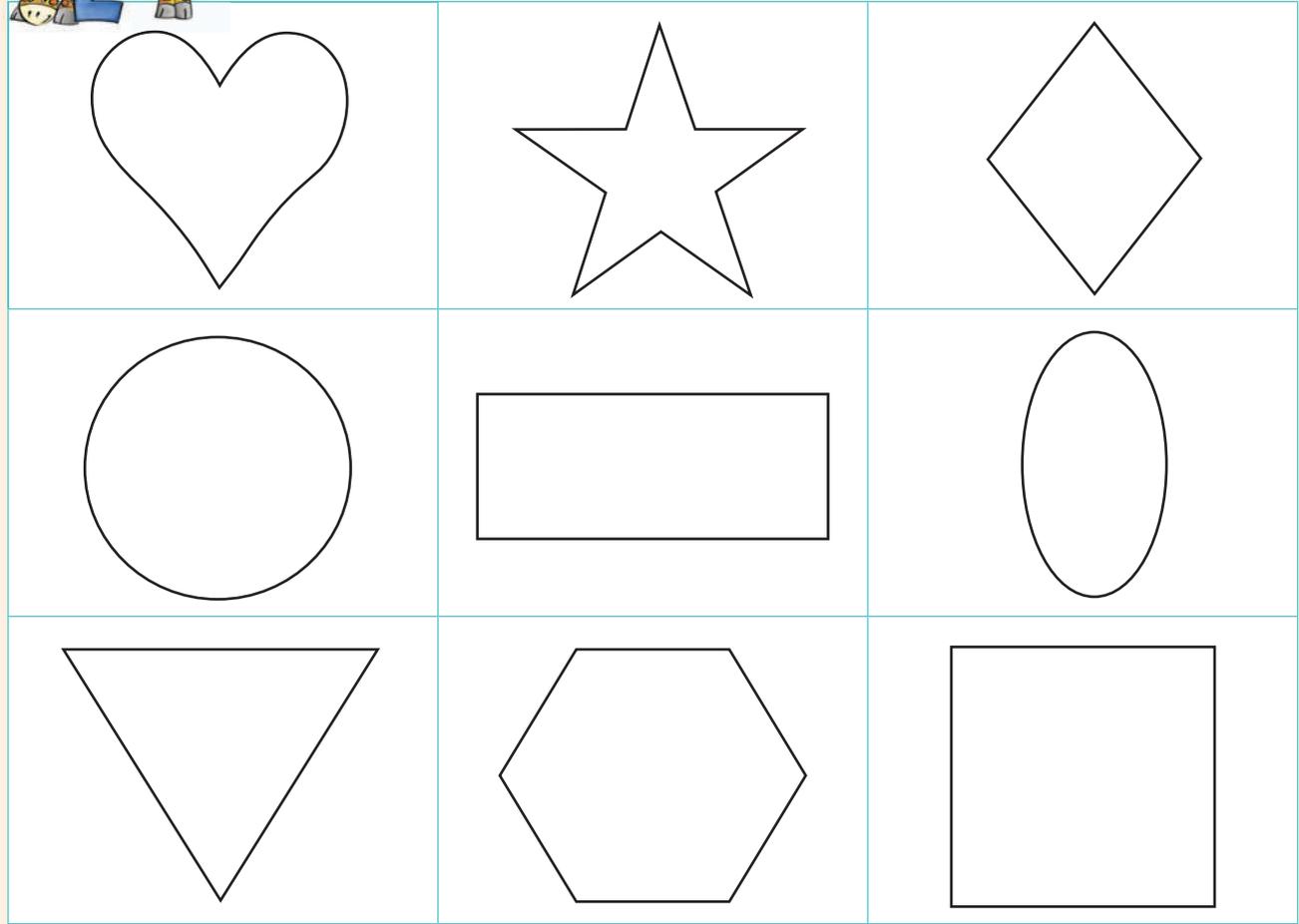
Ndinganahuvhili na zwivhumbeo



Lavhelesani zwifanyiso zwa zwivhumbeo. Lurumbu luthihi lwa tshivhumbeo lu fana na lu_la lu_lwe? Zwi kha ndinganyahuvhili?



Talani mutalo u itela uri lurumbu luthihi lwa tshivhumbeo lu fane na lu_la lu_lwe.





Olani luḽa luḽwe lurumbu lwa tshivhumbeo.



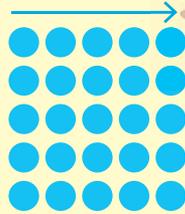
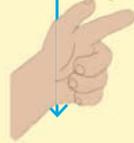
Teacher: _____
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 Date: _____



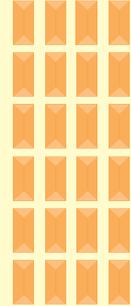
Mitevhe na furakhisheni

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

	<input type="text" value="6"/>		<input type="text"/>		<input type="text"/>
	<input type="text" value="3"/>		<input type="text"/>		<input type="text"/>



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

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



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

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



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

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



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
			tshararu tshithihi tsha zwithu ndi mini?	kota nthihi ya zwithu ndi mini?
			kota nthihi ya zwithu ndi mini?	tshatsharu tshithihi tsha zwithu ndi mini?

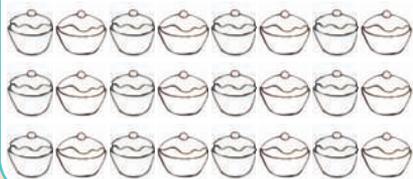


Shumisani mitevhe kha u sumbedza:

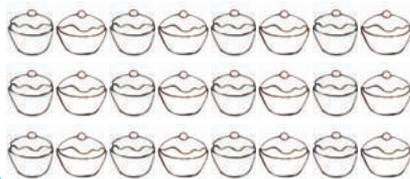
Kota nthihi ya maḷegere a 12.	Tshararu tshithihi tsha maḷegere a 12.	Hafu nthihi ya maḷegere a 12.
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Mme anga vho baka khekhe ya khaphu dza 24 vha tshi bakela inwe na inwe ya indasiṭirii dza mahayani dzi tevhelaho. Avha vhathu vho oda: Ni vhe na vhuṭanzi uri ni shumisa zwiḱanyiso zwa khekhe ya khaphu uri zwi ni dededze.

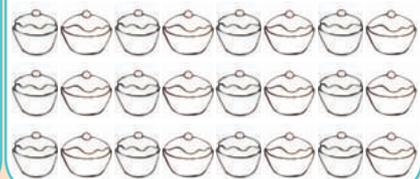
hafu nthihi ndi dza siṭiroberi ngeno dziṅwe dzotḱhe dzi dza vaniḷa



kota nthihi ndi dza tshokoleithi ngeno dziṅwe dzotḱhe dzi dza vaniḷa



tshararu tshithihi ndi tsha siṭiroberi ngeno dziṅwe dzotḱhe dzi dza vaniḷa



Teacher: _____
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Date: _____



Furakhesheni ya tshikhuvhugu tsha zwithu

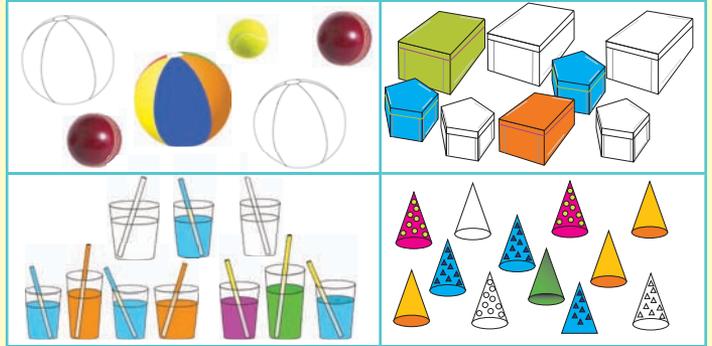
Lavhelesani thalutshedzo idzi ni dzi livhanye na zwifanyiso u itela u sumbedza uri ho khalariwa furakhisheni nngafhani ya zwithu. Ambani ngazwo.

Hafu ya 1 ya tshikhuvhugu tsha zwithu

Tshararu tsha 1 tsha tshikhuvhugu tsha zwithu

Kota ya 1 ya tshikhuvhugu tsha zwithu

Tshathanu tsha 1 tsha tshikhuvhugu tsha zwithu



Vhumbani fhungo lanu inwi mune nga zwifanyiso zwe re afho fhasi. Ni tea u dzhenisa maipfi a no amba nga furakhisheni mafhungoni ayo.





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

O vha e na zwickhipha 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 aisiini ya muomva?

Aisiini ya sitiroberi? Aisiini ya babulugamu?



Teacher: _____
 Sign: _____
 Date: _____



Ndinganahuvhili kha phetheni



Lavhelesani zwifanyiso zwa makolo. Ni vhona mini?



Talani mutalo u itela uri lurumbu luthihi lwa makolo aya lu fane na lula luriwe.



Olani luḷa luḷwe lurumbu lwa makolo. Khaḷarani.

□	△	□
♥	△	▽
♥	△	▽
□	△	□

□	○	□
♥	▽	▽
♥	△	▽
□	○	□

☆	☆	♥
♥	☆	☆
♥	☆	☆
☆	☆	♥

☆	○	▭
♥	▭	▽
♥	▭	△
☆	○	▭

○	⬡	□
♥	△	▽
♥	⬡	▽
○	△	□

△	○	□
♥	□	○
♥	□	▽
△	○	○



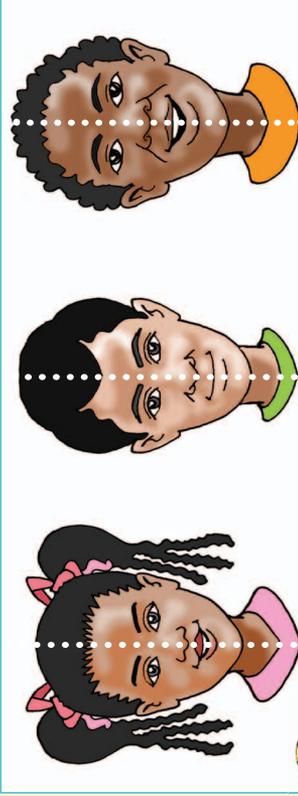
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 Date: _____

Ndinganahuvhili hafhu

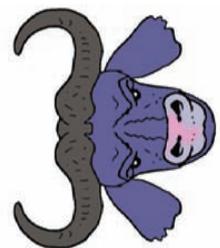
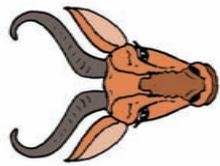
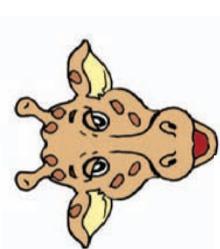
Lavhelesani zwifanjiso zwa zwifhatuwo. Lurumbu luthihi lwa tshivhumbeco lu fana na luja lunwe? Zwi kha ndinganahuvhili?



Dechi: _____



Talani mutalo u itela uri lurumbu luthihi lwa tshivhumbeco lu fane na luja lunwe.



Olani luja lunwe lurumbu lwa sia.

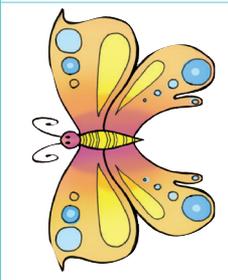
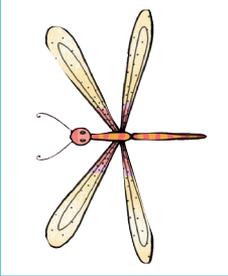
Phetheni dza nomboro dzi do ni thusa.



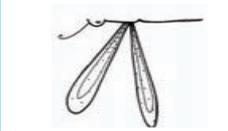
Lavhelesani zwifanjiso zwa zwiwhumbeco. Lurumbu luthihi lwa tshikhokhonono lu fana na luja lunwe?



Talani mutalo u itela uri lurumbu luthihi lwa tshikhokhonono lu fane na luja lunwe.



Olani luja lunwe lurumbu lwa tshikhokhonono.



Teacher: _____
 Sign: _____
 Date: _____