

U ūlukanya Mulayotewa (Ndayotewa) wa Riphabuliki ya Afrika Tshipembe (1996)

Milayo ya n̄hesa ya shango i wanala kha Mulayotewa (Ndayotewa) wa Riphabuliki ya Afrika Tshipembe (1996). Milayo iyi i na maan̄a u fhira na muphuresidennde, maan̄a ayo a fhira a dzikhothe na a muvhuso wōthe.

Ndi milayo ine ya laya vhatu vha lino shango uri vha tea u farana nga n̄dilađe. Mulayotewa wa shango wo itelwa u tsireledza rothe ri no khou tshila zwino na vhana vhashu vhane vha kha d̄i do da.

Talukanyani hune ra bva hone.

Ri songo dovha vhukhakhi ha mulovha.

Mulayotewa washu u ri thusa uri ri elekange nga vhumatsheho ha khw̄ne ha rothe khathihi na u vhu f̄ata.

Riñe, vhatu vha Afrika Tshipembe;  
Ri dzhieila n̄tha u shaea ha vhulamukangi kha tshifhinga tsho fhelaho;  
Ri ḥonihfa havho vhe vha tambulela vhulamukangi na mbofholowo kha shango ḥashu;  
Ri ḥonihfa havho vhe vha shuma vha tshi itela u f̄ata na u bveledzisa shango ḥashu; na  
U tenda uri Afrika Tshipembe ndi ja vhothe vhan̄e vha dzula khađo, vho vhofhekanywaho vha vha huthihi naho vha sa fani.  
Zwenezwo, nga kha vhaimeleli vho khethiwaho zwavhuđi, ri khou ṭanganedza ino Ndayotewa sa wone Mulayo Muhulusa wa Riphabuliki uru u—

Fhelise khethululo ya tshifhinga tsho fhelaho na u thoma tshitshavha tshine tsho disendeka kha ndeme dia demokirasi, vhulamukangi ha matshilisano na pfanelo dia vhuthu;

Fhađe mitheo kha demokirasi na tshitshavha tshi re khagala hune muvhuso wo disendeka kha lufuno lwa vhatu nahone vhadzulapo vho tsireledza nga mulayo nga n̄dila I linganaho;

Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhothe na u vhofholola vhukoni ha muthu muřwe na muřwe; na

F̄ata mbumbano na demokirasi zwa Afrika Tshipembe uri li kone u vha fhetu ho teaho sa muvhuso wo diimisaho kha muđa wa tshaka.

Shumisani pfanelo dzanu sa mudzulapo wa Afrika Tshipembe ni dovhe ni vhe na vhudifhinduleli ha u tsireledza pfanelo dia vhařwe.

Divhani Mulayotibe Wa Pfanelo na Mulayotibe Wa Vhudifhinduleli.

Mudzimu tsireledza vhatu vhashu.  
Nkosi Sikele' iAfrika. Morena boloka setjhaba sa heso.  
God seën Suid-Afrika. God bless South Africa.  
Hosi katekisa Afrika.

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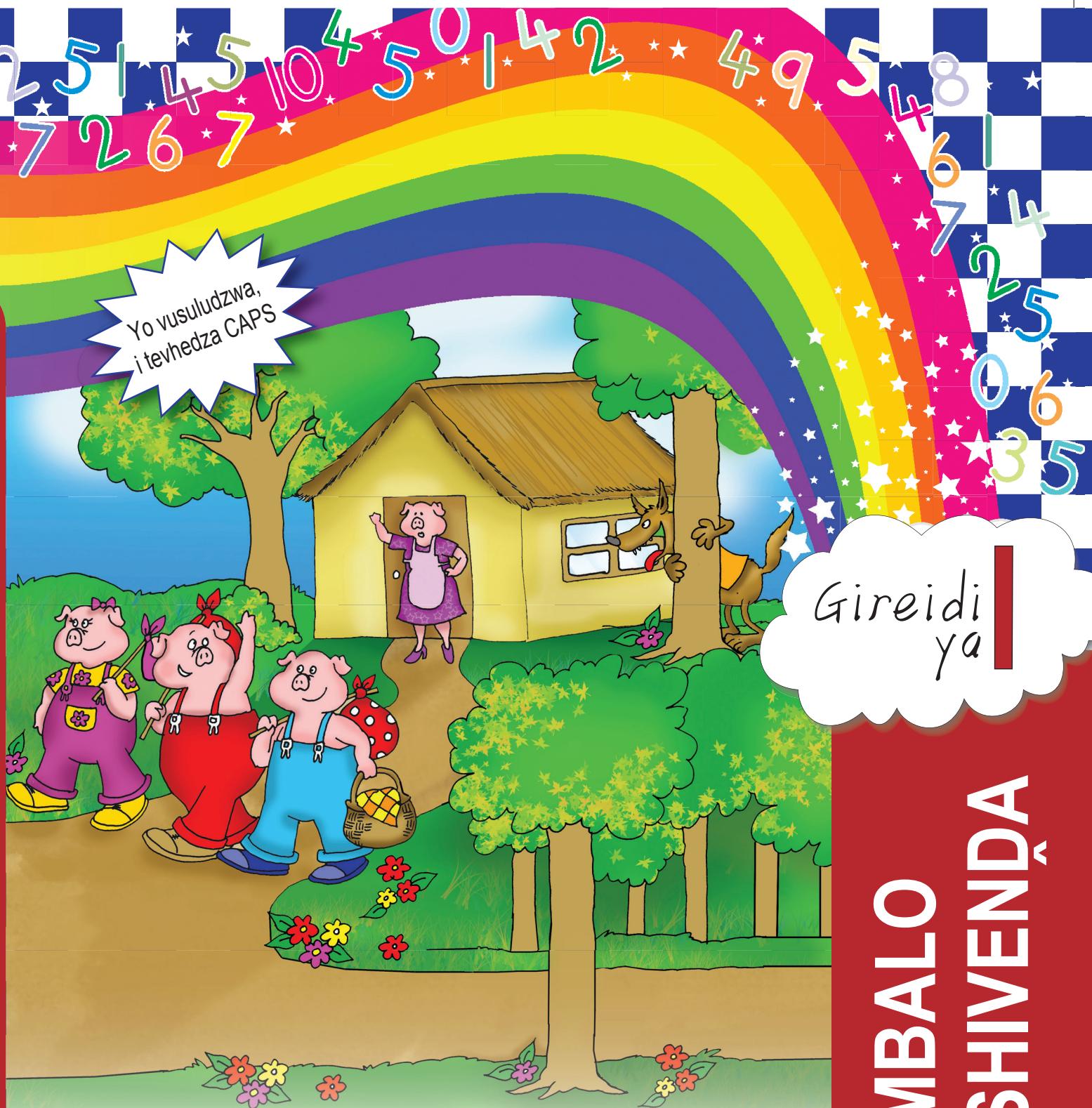


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GRADE 1 – BOOK 2  
TERMS 3 & 4  
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DIVHAMBALO  
NGA TSHIVENDA

Bugu ya 2  
Themo 3 & 4

# Zwi re ngomu

No.	Thoho	Saitori
65	Pfesesani nomboro II	2
66	Pfesesani nomboro I2	4
67	Pfesesani nomboro I3	6
68	Pfesesani nomboro I4	8
69	Pfesesani nomboro I5	10
70	Mutanganyo u swika kha 20 – Uisa phanda	12
71	Mutanganyo – u fhača na u padukanya nomboro u swika kha 10	14
72	Mutanganyo – u fhača na u padukanya nomboro u swika kha 20	16
73	Mutanganyo na mutuso – u fhača na u padukanya	18
74	Vhulapfu (vhuntha)	20
75	Tshelede na tshintshi	22
76	Tshelede na tshintshi	24
77	Tshelede: Mutanganyo na mutuso	26
78	Data	28
79	Data na tshifhinga	30
80	Zwigwada zwa zwitšanuzwitanu u swika kha 15	32
81	Thanu: ndovhololo ya mutanganyo u swika kha 15	34
82	Zwitšanuzwitanu u swika kha 15	36
83	Phetheni dza nomboro tshanuthanu u swika kha 50	38
84	Phetheni dza nomboro dza tshanu u swika kha 80	40
85	Nyngakavhili	42
86	Hafu	44
87	Zwithu zwa 3-D	46
88	Zwithu zwa 3-D – U swenda na u kunguluwa	48
89	Phetheni dza dzhometiiri	50
90	Zwigwada zwa mbili u swika kha 15	52
91	Ndovhololo ya mutanganyo wa mbili u swika kha 15	54
92	Zwihilizwihili u swika kha 15	56
93	Phetheni dza nomboro 2 u swika kha 50	58
94	Ndinganahuvhili	60
95	Momboro na vhuimo ha nomboro	62
96	Vhulapfu (Vhunavha)	64

No.	Thoho	Saitori
97	Nomboro I6	66
98	Nomboro I7	68
99	Nomboro I8	70
100	Nomboro I9	72
101	Nomboro 20	74
102	Mutanganyo	76
103	Mutuso	78
104	Mutanganyo na mutuso	80
105	Nomboro zwadzo	82
106	Zwithu na zwivhumbeo	84
107	Tshelede	86
108	Tshelede iñwe hafhu	88
109	Zwivhumbeo zwa 2-D	90
110	Zwivhumbeo zwa 2-D – vhurumbutswititi na vhurumbu ha zwipulumbu	92
111	Zwiñwe zwivhumbeo zwa 2-D	94
112	Zwigwada zwa tshanu u swika kha 20	96
113	Thanu – ndovhololo ya mutanganyo wa u swika kha 20	98
114	Ukovhekana u swika kha 20	100
115	Phetheni dza nomboro – tshanu u swika kha 100	102
116	Vhuimo na mbonalo	104
117	Zwigwada zwa mbili u swika kha 20	106
118	Mbilimbili – ndovhololo ya mutanganyo u swika kha 20	108
119	Phetheni dza nomboro – mbili u swika kha 100	110
120	Phetheni dza nomboro – mbili u swika kha 100	112
121	Tshileme	114
122	Uinga kavhili	116
123	Uhafula	118
124	Data	120
125	Data iñwe hafhu	122
126	Khaphasithi (Ndadzo)	124
127	Phetheni dza dzhometiiri	126
128	Ndinganahuvhili	128



4 5 0 2 5 1 4 5 10 4 5 0 1 4 2 4 9 5 4 8 4 6 1



Vho Angie Motshekga  
Minista wa Muhasho wa  
Pfunzo ya Muteo



Vho Enver Surty  
Muthusaminista wa  
Pfunzo ya Muteo

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

Bugu dza u shumela dza Rainbow ndi tshipida tsha zwe Muhasho wa Pfunzo ya Muteo wa ita zwa u khwiñisa vhukoni ha vhagudi vha Afrika Tshipembe vha gireidi dza rathi dza u ranga. Sa tshinwe tsha zwithu zwihulwane zwa Pulanetshumisi ya Muvhuso, thandela iyi yo konadzea nge ya lamedzwa lu sa vhudzisiwi nga Muhasho wa Gwama ja Lushaka.

Hezwi zwo ita uri Muhasho u kone u bveledza bugu idzi, dzi kha nyambo dzoñhe dza tshiofisi, dzi tshi waniwa mahala.

Ri na fulufhelo lauri bugu idzi dzi do thusa vhadededzi (vhagudisi) mushumoni wavho wa u funza wa ñuvha liñwe na liñwe khathihi na u vha na vhutanzi uri vha khunyeledze kharikhuñamu yoñhe. Ro ita nga vhuronwane uri ri sumbedze ñdila vhadededzi kha nyito nge ra shumisa aikhoni dzi no sumbedza uri mugudi u tea u ita zwifhio.

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

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



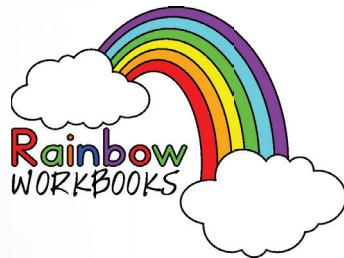
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Gireidi  
ya



M b a i o

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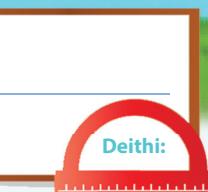
TSHIVENDA

Bugu ya

2



65



Themo ya 3

## Pfesesani nomboro II

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



thihi

I I

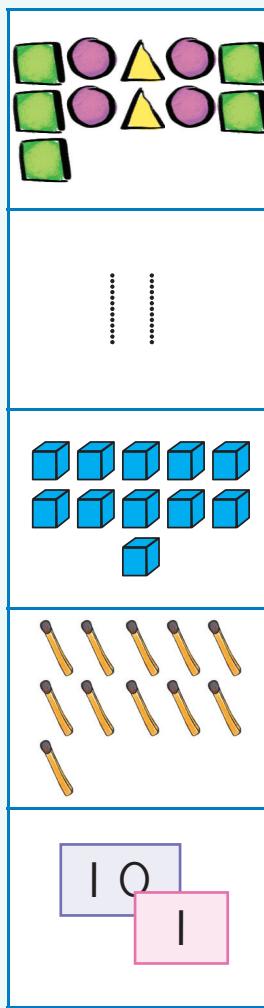
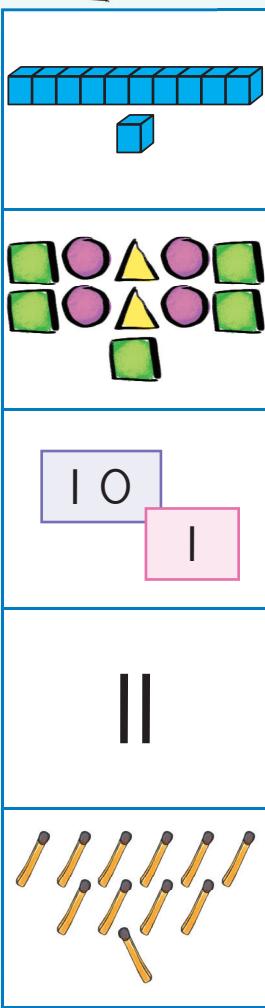


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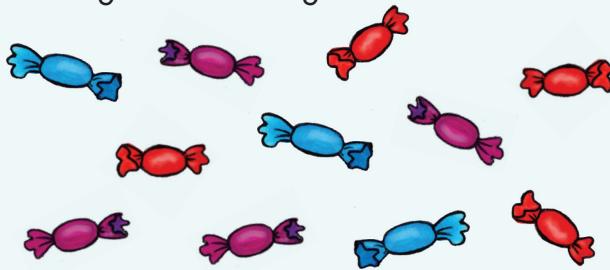


Livhanyani zwifanyiso.



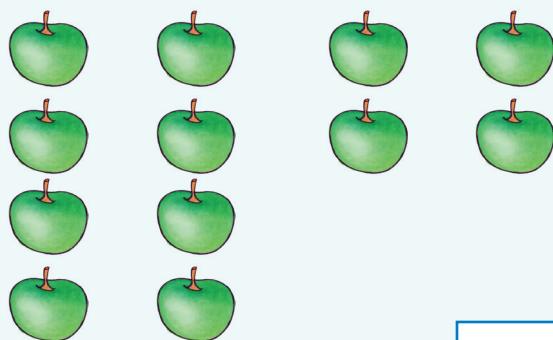
Tangedzelani zwithu.

Tangedzelani malegere a 10 fhedzi.



Ho sala malegere mangana?

Tangedzelani maapula a 10 fhedzi.



Ho sala maapula mangana?



0 1 2 3 4 5 6 7 8 9 10



Tovhedzelani nomboro.

fumithihi			



Kholomo iñwe na  
iñwe i tea u vha na  
thanganyelo ya ll.  
Nwalani nomboro dzi  
no khou t̄ahela.

3	5	4
4	5	
4		2



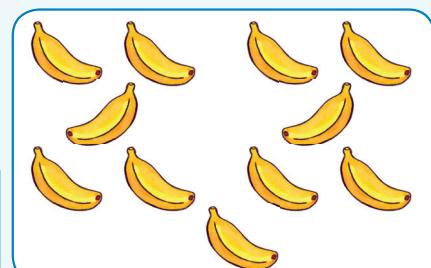
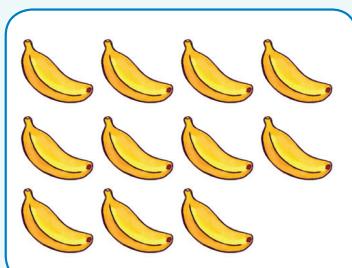
Olani zwithu zwa ll.



Nwalani nomboro dzi no  
khou t̄ahela.



Vhalani  
zwithu.



Fhedzisani thebuļu. Rou (muduba)  
iñwe na iñwe i na tshifanyiso, nomboro  
na ipfi lo imelaho nomboro iyo.

  		fumithihi
		fumithihi
	fumithihi	  



Ndi nomboro ifhio i re t̄hukhu  
kha ll nga thihi?

Ndi nomboro ifhio i re  
khulwane kha ll nga thihi?



11 12 13 14 15 16 17 18 19 20

66



Themo ya 3

## Pfesesani nomboro 12

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



raru

3 3

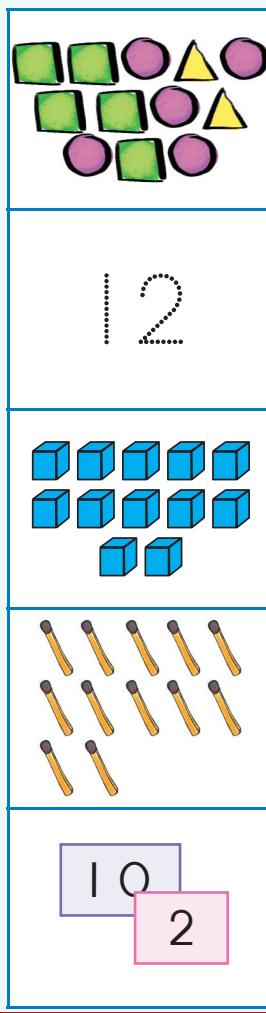
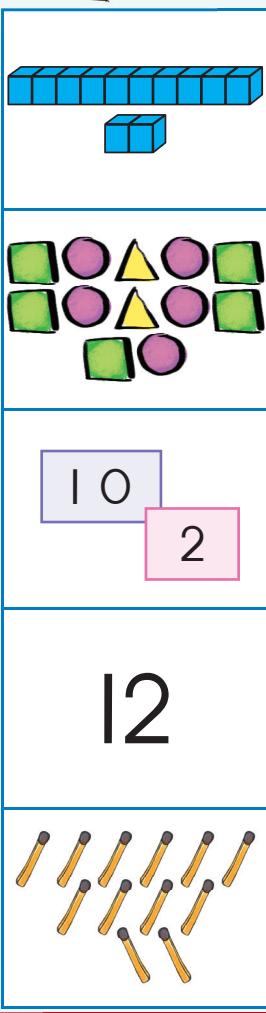


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4 4



Livhanyani zwifanyiso.



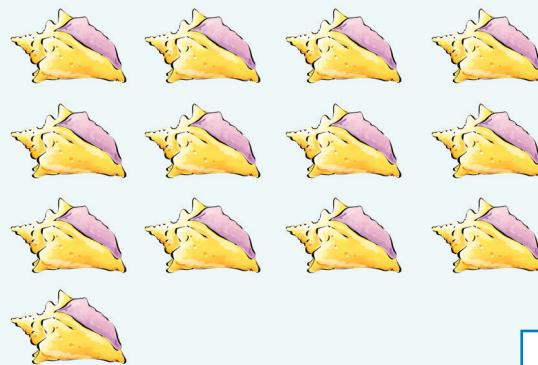
Tangedzelani zwithu.

Tangedzelani zwienda zwa 10 fhedzi.



Ho sala zwienda zwingana?

Tangedzelani khambalwanzhe dza 12 fhedzi.



Ho sala khambalwanzhe nngana?



0 1 2 3 4 5 6 7 8 9 10



Tovhedzelani nomboro.

|2 |2 |2 |2  
fumimbili

Kholomo iñwe na  
iñwe i tea u vha na  
thanganyelo ya 12.  
Nwalani nomboro dzi  
no khou t̄ahela.

	7	6
4		4
3	2	
2	2	2



## Olanizwithu zwa l2.



Nwalani nomboro dzi no  
khou t̄ahela.

3		5			
8					



Vhalani  
zwithu.



Fhedzisani thebulu. Rou iñwe na  
iñwe i na tshifanyiso, nomboro na ipfi lo  
imelaho nomboro iyo.

		fumimbili
	2	fumimbili
		2
		fumimbili



Ndi nomboro ifhio i re thukhu  
kha l2 nga thihi?

Ndi nomboro ifhio i re  
khulwane kha l2 nga thihi?



67



Deithi:

Themo ya 3

## Pfesesani nomboro 13

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



thanu

5 5

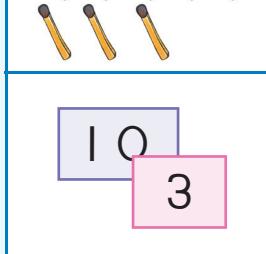
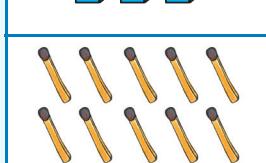
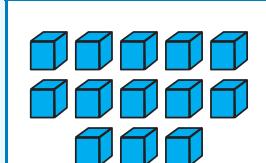
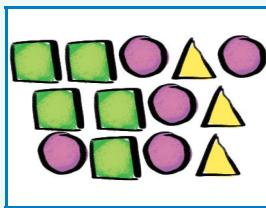
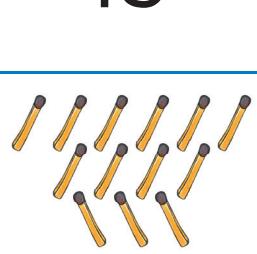
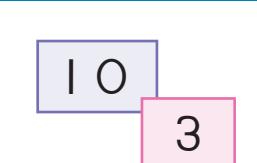
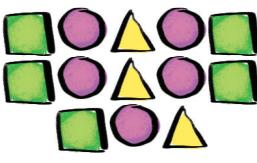
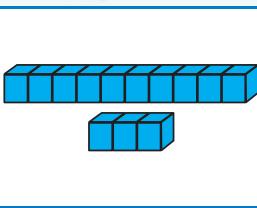


rathi

6 6

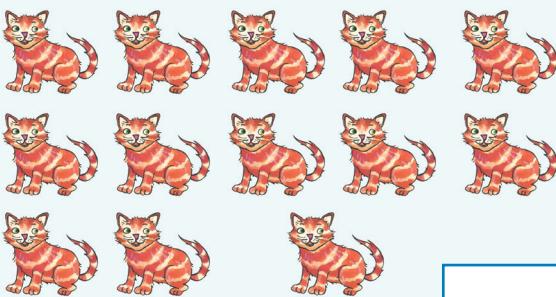


Livhanyani zwifanyiso.



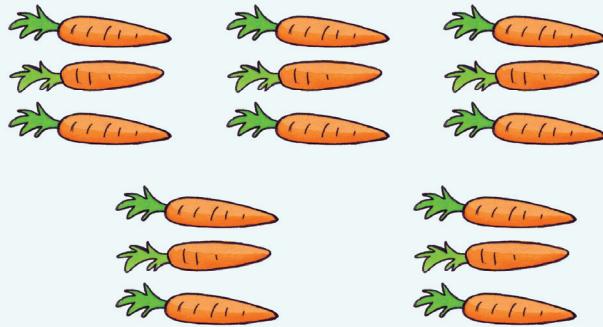
Tangedzelani zwithu.

Tangedzelani zwimange zwa 10 fhedzi.



Ho sala zwimange zwingana?

Tangedzelani kherotsi dza 13 fhedzi.



Ho sala kherotsi nngana?



0

1

2

3

4

5

6

7

8

9

10

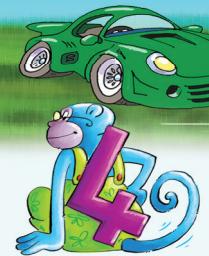


Tovhedzelani nomboro.

13 13 13 13

fumiraru

13 13 13 13



Kholomo iñwe na  
iñwe i tea u vha na  
thanganyelo ya 13.  
Nwalani nomboro dzi  
no khou t̄ahela.

1	2	6
1		
	3	2
13	13	13



Olanzi zwithu zwa 13.

Zwino zwi oleni nga ndila iñwevho.

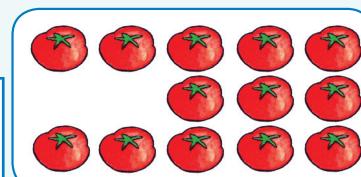
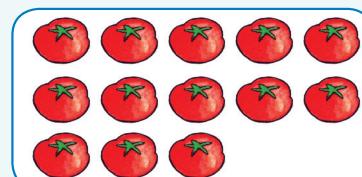


Nwalani nomboro  
dzi no khou t̄ahela.

<input type="text"/>	10	<input type="text"/>	12	<input type="text"/>
----------------------	----	----------------------	----	----------------------



Vhalani zwithu.



Fhedzisani thebuļu. Rou iñwe na  
iñwe i na tshifanyiso, nomboro na ipfi lo  
imelaho nomboro iyo.

 		fumiraru
	13	fumiraru
13	 	
	fumiraru	 



Ndi nomboro ifhio i re t̄hukhu  
kha 13 nga thihi?

Ndi nomboro ifhio i re  
khulwane kha 13 nga thihi?

Teacher:  
Sign:  
Date:



68



Deithi:

Themo ya 3

## Pfesesani nomboro 14

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



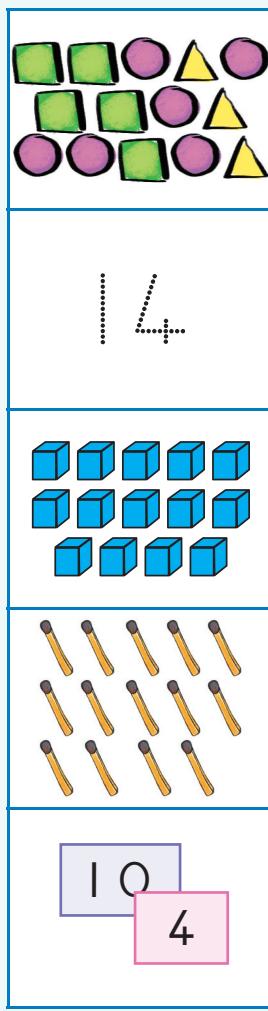
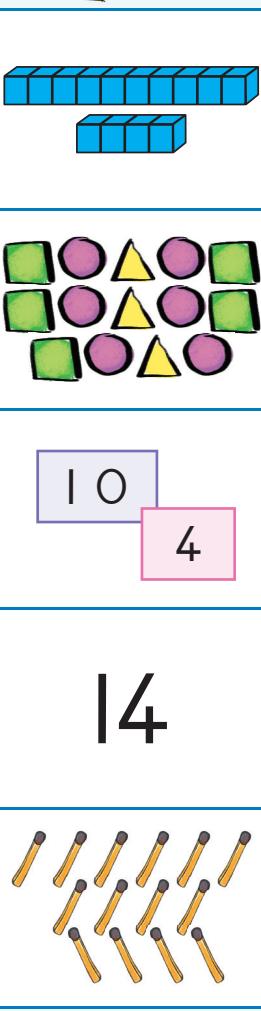
7 7



8 8



Livhanyani zwifanyiso.



Tangedzelani zwithu.



Ho sala zwisusu zwingana?

Tangedzelani rokho dza 14 fhedzi.



Ho sala rokho nngana?



0

1

2

3

4

5

6

7

8

9

10



Tovhedzelani nomboro.

14 14 14 14

fumiingga

14 14 14 14



Olani zwithu zwa 14.



Kholomo iñwe na  
iñwe i tea u vha na  
thanganyelo ya 14.  
Nwalani nomboro dzi  
no khou t̄ahela.

1		2
	5	1
3	2	
14	14	14

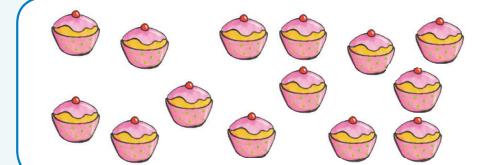
Zwino zwi oleni nga ndila iñwevhho.



Nwalani nomboro dzi no  
khou t̄ahela.



Vhalani zwithu.



Fhedzisani thebuļu. Rou iñwe na  
iñwe i na tshifanyiso, nomboro na ipfi lo  
imelaho nomboro iyo.

 	14	fumiingga
14	 	
	fumiingga	 



Ndi nomboro ifhio i re t̄hukhu  
kha 14 nga thihi?

Ndi nomboro ifhio i re  
khulwane kha 14 nga thihi?



69



Deithi:

Themo ya 3

## Pfesesani nomboro 15

Mvusuludzo:

Itani ndowendowe ya u ḥwala nomboro.



tahe

q q

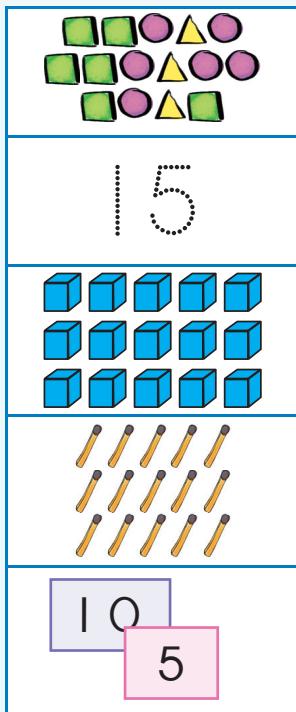
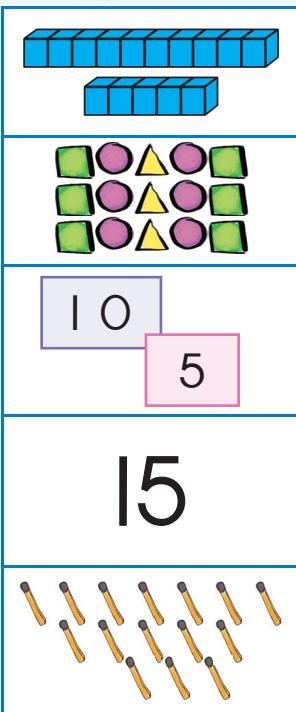


fumi

10 10

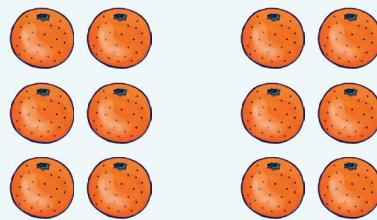


Livhanyani zwifanyiso.



Tangedzelani zwithu.

Tangedzelani maswiri a 10 fhedzi.



Ho sala maswiri mangana?

Tangedzelani ḥaledzi dza 15 fhedzi.



Ho sala ḥaledzi nngana?



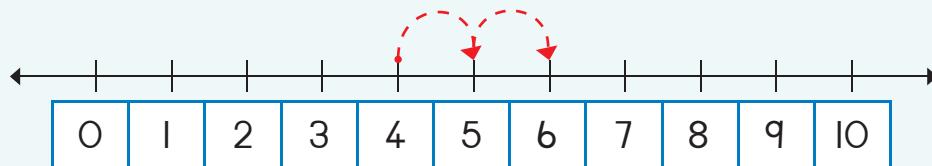
ᬁwalani phindulo.



$7 + 2 =$



10 0 1 2 3 4 5 6 7 8 9 10



$$4 + 2 =$$



Tovhedzelani nomboro.

15 15 15 15

fumitanu

15 15 15 15



Nwalani nomboro dzi no khou t̄ahela.

7

11

12

13

15

15

13

12



Vhalani zwithu.







Fhedzisani thebulu. Rou iñwe na iñwe i na tshifanyiso, nomboro na ipfi lo imelaho nomboro iyo.

	15	fumitanu
		fumitanu
15		



Ndi nomboro ifhio i re t̄hukhu kha 15 nga thihi?

Ndi nomboro ifhio i re khulwane kha 15 nga thihi?

Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20

70



Deithi:

## Mučanganyo u swika kha 20 – U isa phanda

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo.

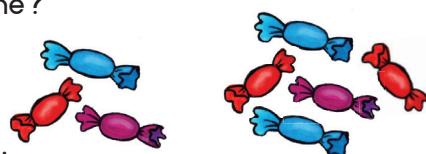
6

rathi



Lavhelesani zwifanyiso ni nwale fhungombalo la tshifanyiso tshiñwe na tshiñwe.

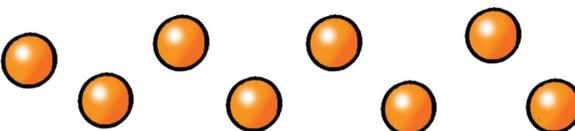
Lisa u na malegere a 3. Mandla u na malegere a 5. Vha na malegere mangana o tangana othe?



Kha ri vhale:

3	4	5	6	7	8
+      =					

Ndo vha ndi na mimavhulu ya 8 nda xedza ya 4. Ndo salelwa nga mimavhulu mingana?

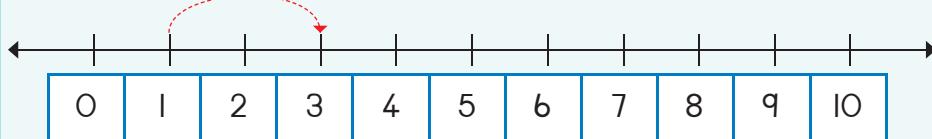


Kha ri vhale ri tshi ya murahu:

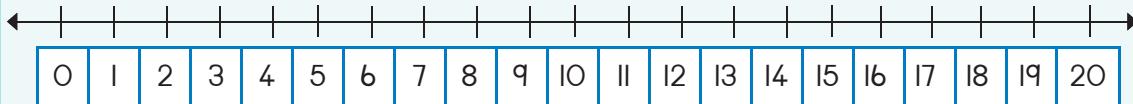
8	7	6	5	4
-      =				



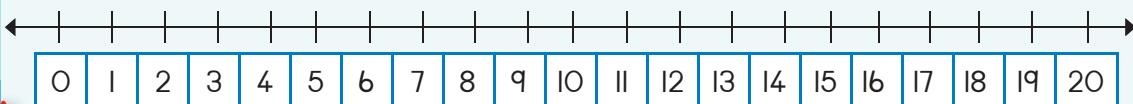
Nwalani phindulo.



$1 + 2 = \boxed{\phantom{0}}$



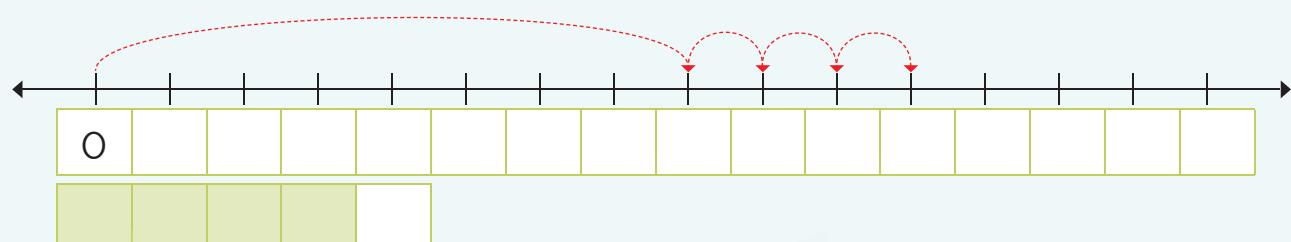
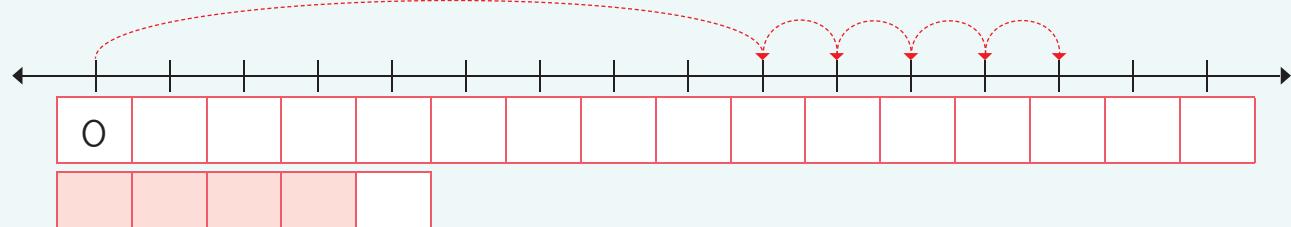
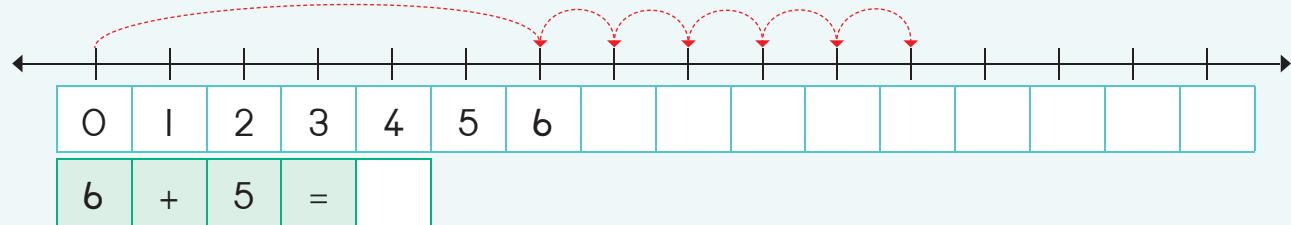
$13 + 2 = \boxed{\phantom{0}}$



$15 + 2 = \boxed{\phantom{0}}$



0 1 2 3 4 5 6 7 8 9 10



 Vhalelani nga 2.

3	5
4	
2	



7	
8	
6	

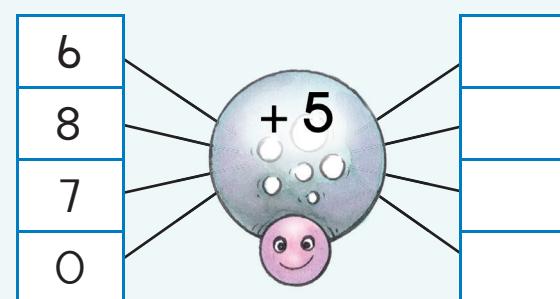
 Nwalani nomboro.

Ndi na miñwaha ya 7. Ndi ño vha ndi na miñwaha mingana nga murahu ha miñwaha ya 5?

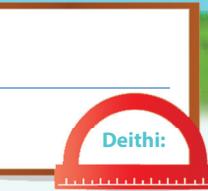
7

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Ndi ño vha ndi miñwaha ya \_\_\_\_\_.



7I



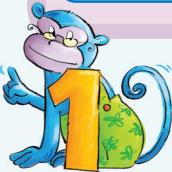
## Mutanganyo – u fhaṭa na u padukanya nomboro u swika kha 10

Mvusuludzo:

Itani ndowendowe ya u nwalala dzinambalo.

7

sumbe



Nwalani phindulo.

$3 + 3 = \square$



$0 + 5 = \square$

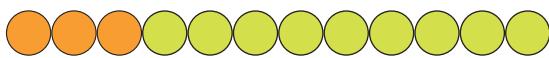


$3 + 2 + 1 = \square$



Khalaran ni tshi sumbedza zwi tevhelaho.

$3 + 9$



$4 + 8$



$5 + 7$



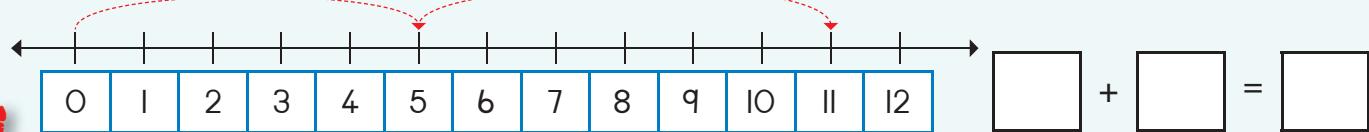
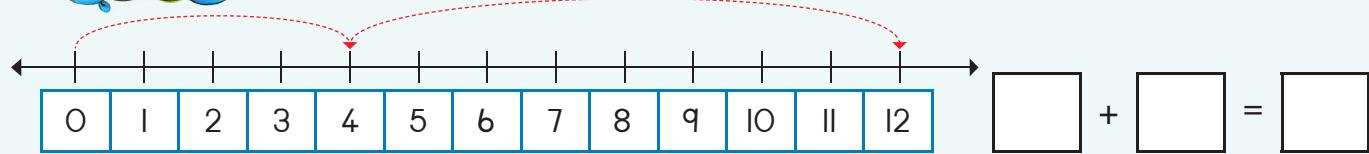
$6 + 6$



$7 + 5$

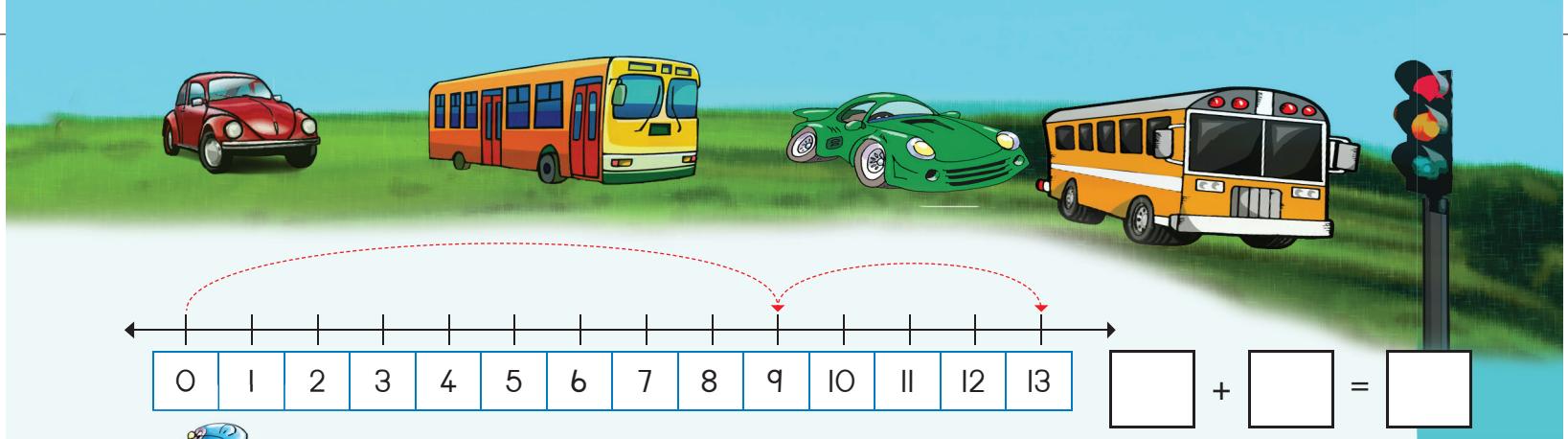


Nwalani mbalo ya:

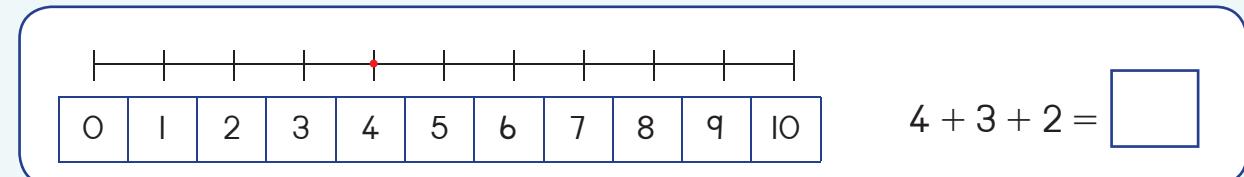
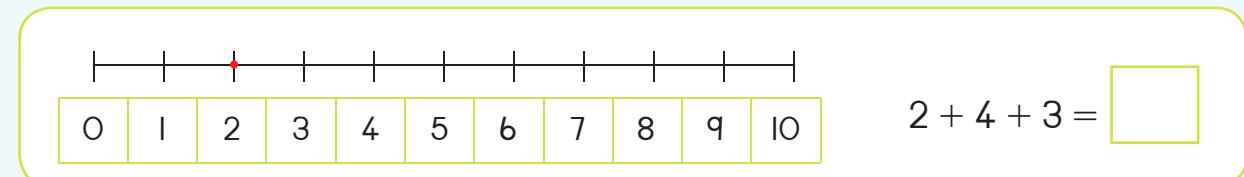
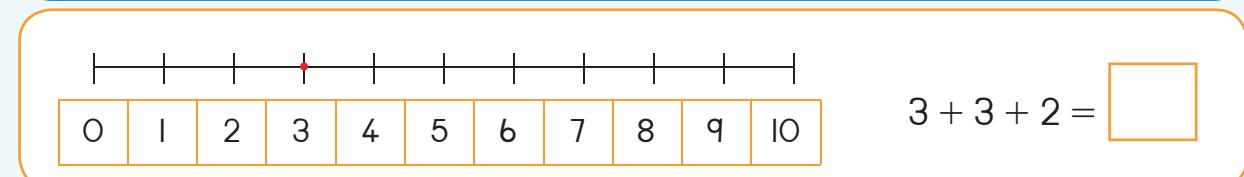
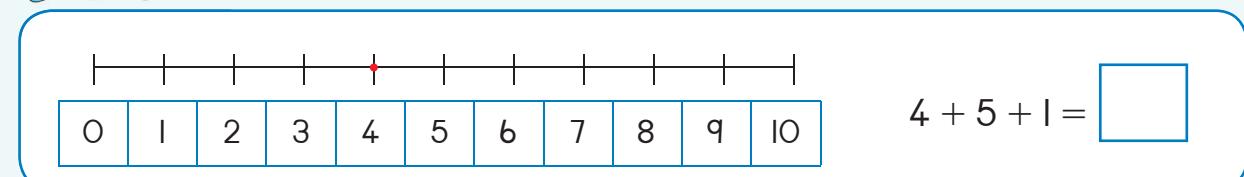


14

0 1 2 3 4 5 6 7 8 9 10



Fhedzisani mutualombalo ni የውለ phindulo.



Tandululani zwi tevhelaho nga u ola zwifanyiso.

Ndi na mimavhu<sup>lu</sup> ya 5 ngeno khonani yanga e na ya 8. Ri na mimavhu<sup>lu</sup> mingana yo ታngana yo<sup>the</sup>?

[ ] + [ ] = [ ]

Ndo wana maluvha a 9 a u fha mudededzi washu. Khonani yanga a wana a 6. Ri na maluvha mangana o ታngana o<sup>the</sup>?

[ ] + [ ] = [ ]



72

Deithi:

# Mutanganyo – u fhaṭa na u padukanya nomboro u swika kha 20

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo.

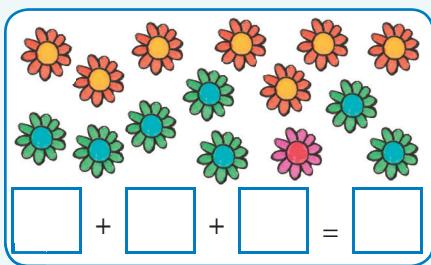
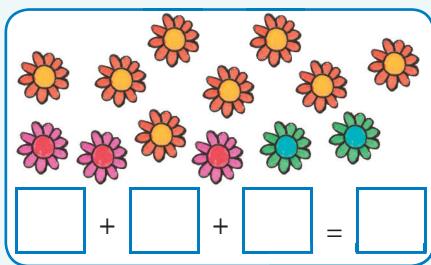
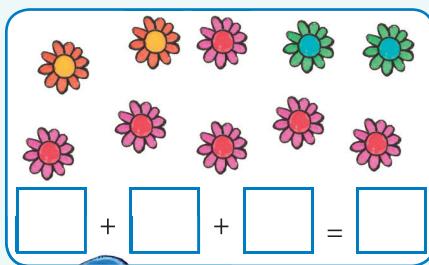
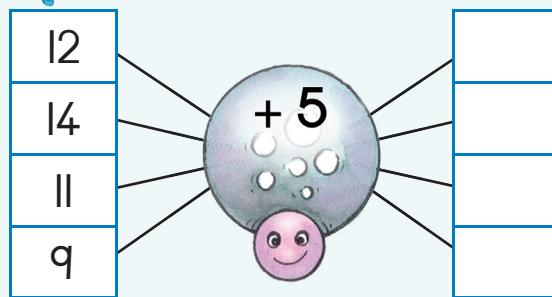
8

malo

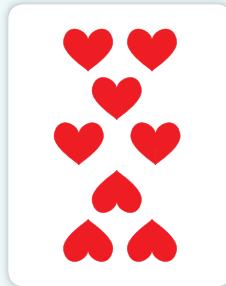


Nwalani phindulo.

$0 + 2 =$		$2 + 2 =$		$4 + 2 =$		$6 + 2 =$		$8 + 2 =$	
$10 + 2 =$		$12 + 2 =$		$14 + 2 =$		$16 + 2 =$		$18 + 2 =$	

Shumisani maluvha a mivhala yo fhambananaho kha u ita mafhungombalo  
a inwi muṇe.Thusani buvhi u fhedzisa  
mbalo.

Hu na mbilu nngana?



Nwalani mbalo yanu.

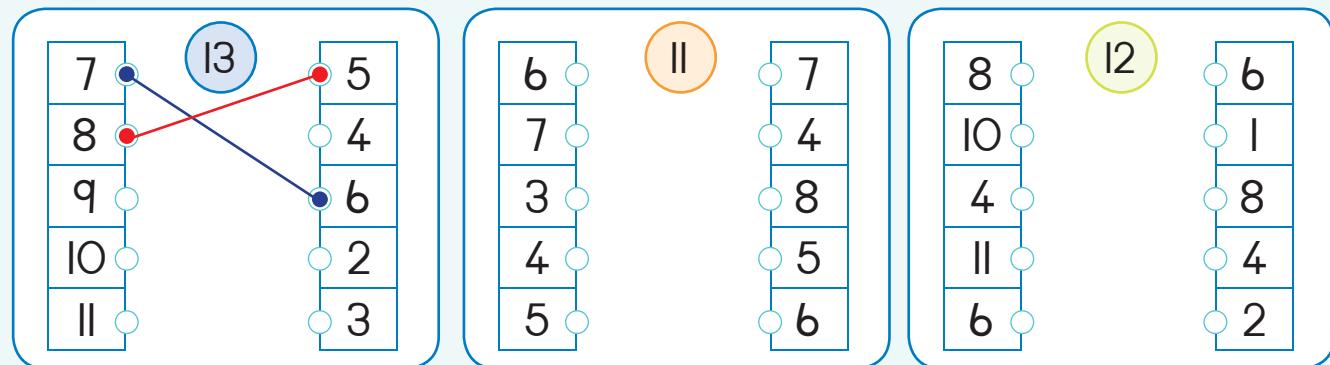
$$\boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}}$$



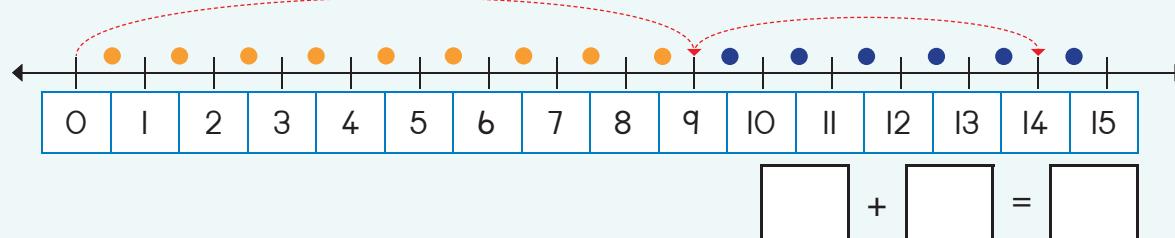
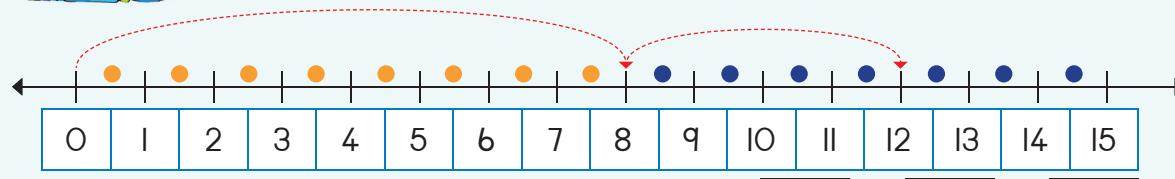
16 0 1 2 3 4 5 6 7 8 9 10



Livhanyani phere dza nomboro ni tshi sika nomboro dici tevhelaho.



Nwalani fhungombalo ja:



Mvusuludzo:

Mvusuludzo: Khałarani phindulo yone.



mbonalo ya nga phanda

mbonalo ya nga murahu

mbonalo ya nga matungo



mbonalo ya nga phanda

mbonalo ya nga murahu

mbonalo ya nga matungo



mbonalo ya nga phanda

mbonalo ya nga murahu

mbonalo ya nga matungo



mbonalo ya nga phanda

mbonalo ya nga murahu

mbonalo ya nga matungo



Teacher:  
Sign:  
Date:



73



Deithi:

Themo ya 3

## Mut<sup>h</sup>anganyo na mut<sup>h</sup>uso – u fhat<sup>h</sup> na u padukanya

Mvusuludzo:

Itani ndowendowe ya u nwalala dzinambalo.

9

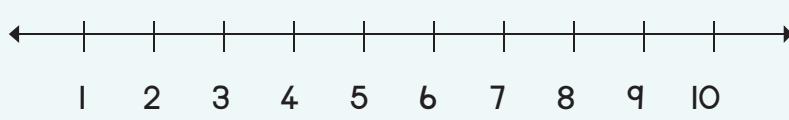
tahē



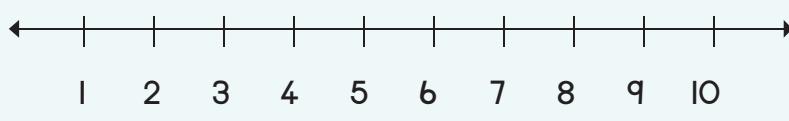
Nwalani phindulo.



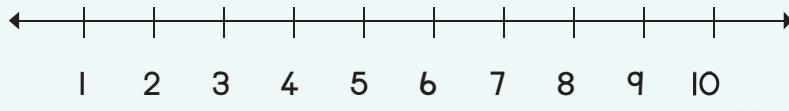
$4 - 1 =$



$5 - 3 =$



$4 - 2 =$

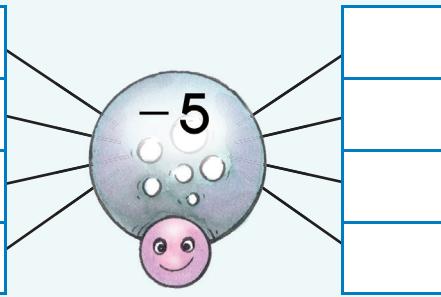


$5 - 2 =$

Thusani buvhi u fhedzisa  
mbalo.

Hu na mbilu nngana?

7
8
10
5



Nwalani mbalo yanu.

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



0

1

2

3

4

5

6

7

8

9

10



Rekanyani zwi tevhelaho.

$$\begin{array}{r} 7 \\ + \quad 4 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 7 \\ + \quad 4 \\ + \quad 1 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 10 \\ + \quad 1 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 6 \\ + \quad 6 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 6 \\ + \quad \boxed{\phantom{00}} \\ + \quad \boxed{\phantom{00}} \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 10 \\ + \quad \boxed{\phantom{00}} \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 13 \\ - \quad 6 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 13 \\ - \quad 3 \\ + \quad 3 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 10 \\ - \quad 3 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 12 \\ - \quad 8 \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 10 \\ - \quad \boxed{\phantom{00}} \\ + \quad \boxed{\phantom{00}} \\ \hline \end{array} = \boxed{\phantom{00}}$$

$$\begin{array}{r} 10 \\ - \quad 3 \\ \hline \end{array} = \boxed{\phantom{00}}$$



Nwalani phindulo ni khalare na u ola.

$$8 + 6 = \boxed{\phantom{00}}$$

Ri nga kha di i sumbedza sa:

$$(8 + 2) + 4 = \boxed{\phantom{00}} \rightarrow 10 + 4 = \boxed{\phantom{00}}$$

$$15 - 7 = \boxed{\phantom{00}}$$

Ri nga kha di i sumbedza sa:

$$(15 - 5) - 2 = \boxed{\phantom{00}} \rightarrow 10 - 2 = \boxed{\phantom{00}}$$

$$9 + 4 = \boxed{\phantom{00}}$$

Ri nga kha di i sumbedza sa:

$$(9 + 1) + 3 = \boxed{\phantom{00}} \rightarrow \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$14 - 5 = \boxed{\phantom{00}}$$

Ri nga kha di i sumbedza sa:

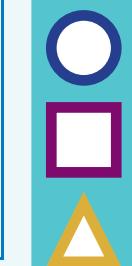
$$(\quad - \quad) - 1 = \boxed{\phantom{00}} \rightarrow 10 - 1 = \boxed{\phantom{00}}$$

Mvusuludzo:

Itani ndowendowe ya u nwalla dzinambalo.

10

fumi

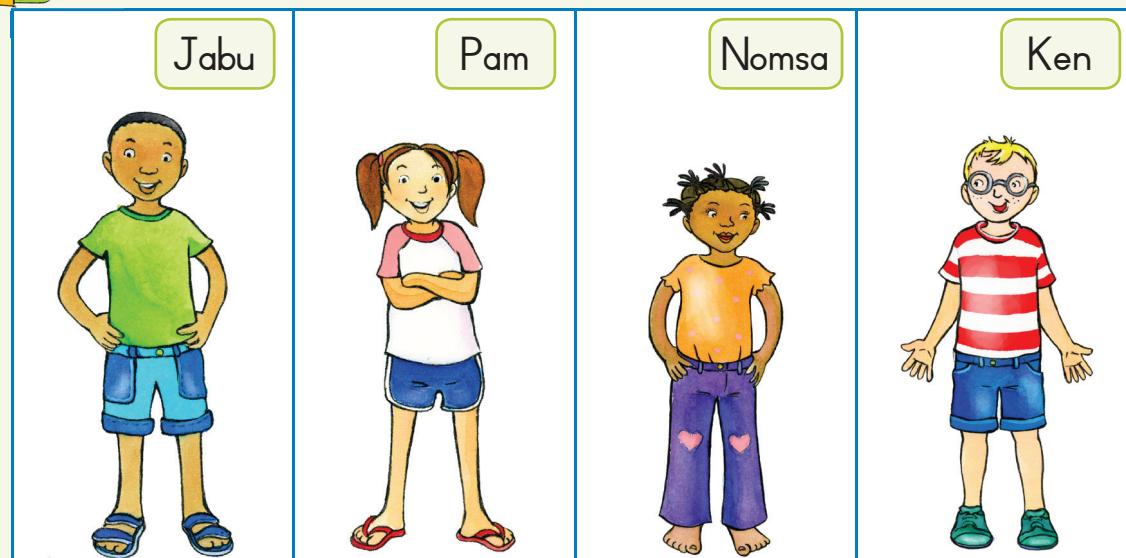


74



Lavhelesani tshifanyiso ni fhindule mbudziso.

Themo ya 3



Ndi nnyi mulapfusa?

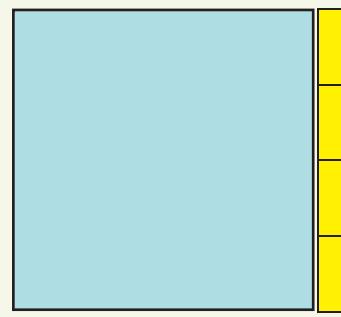
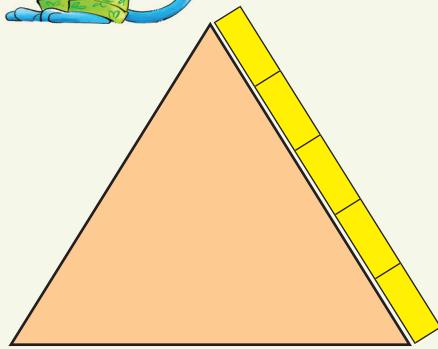
Ndi nnyi a re mutukana mupfufhisa?

Ndi nnyi mupfufhisa?

Ndi nnyi a re musidzana mulapfusa?



Vhurumbu ha zwivhumbeo izwi ndi vhulapfu ha zwibogisi zwingana.



20

0

1

2

3

4

5

6

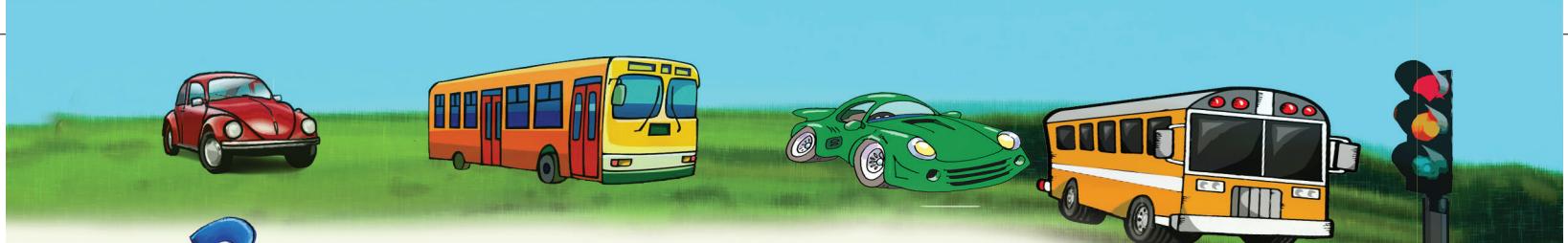
7

8

9

10

Deithi:

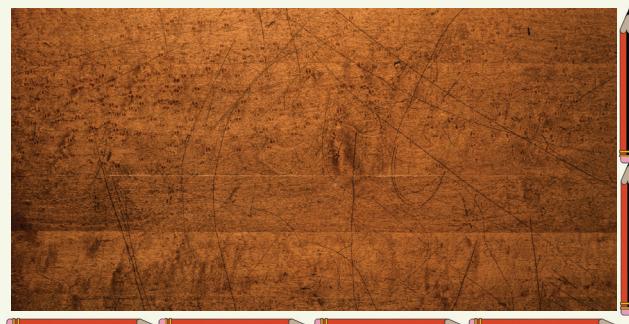


Vhulapfu na vhuphara ha ṭafula ndi vhugai nga muelo wa vhulapfu ha zwibuloko na penisela?



Vhuphara ndi zwibuloko zwa \_\_\_\_.

Vhulapfu ndi zwibuloko zwa \_\_\_\_.



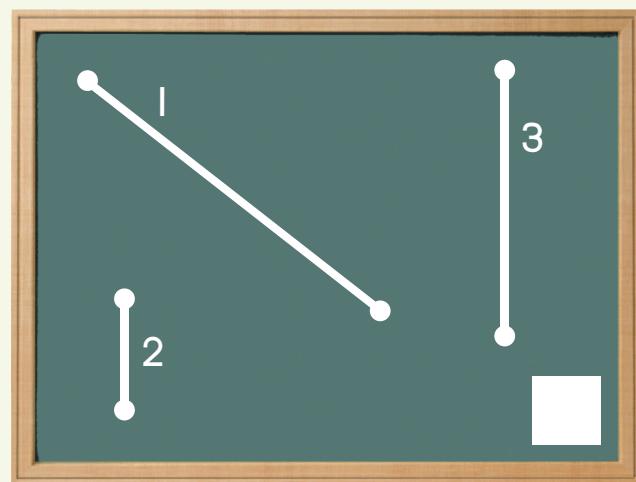
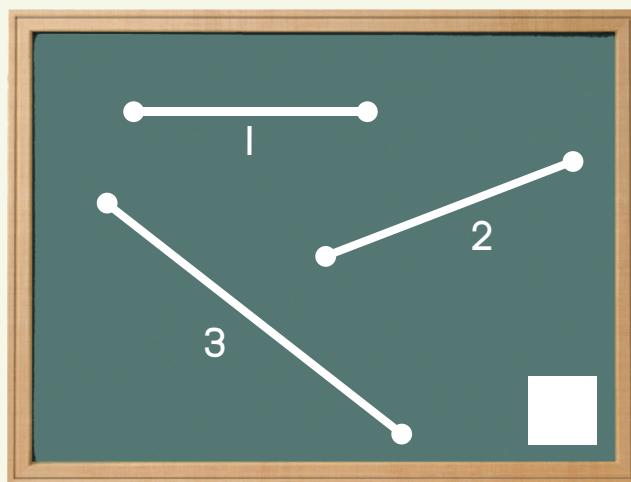
Vhuphara ndi zwibuloko zwa \_\_\_\_.

Vhulapfu ndi zwibuloko zwa \_\_\_\_.



Ndi mutaladzi ufhio u re  
mupfufhisa?  
Mutaladzi 1, 2 kana 3?

Ndi mutaladzi ufhio u re mulapfusa?  
Mutaladzi 1, 2 kana 3?



Teacher:  
Sign:  
Date:



75



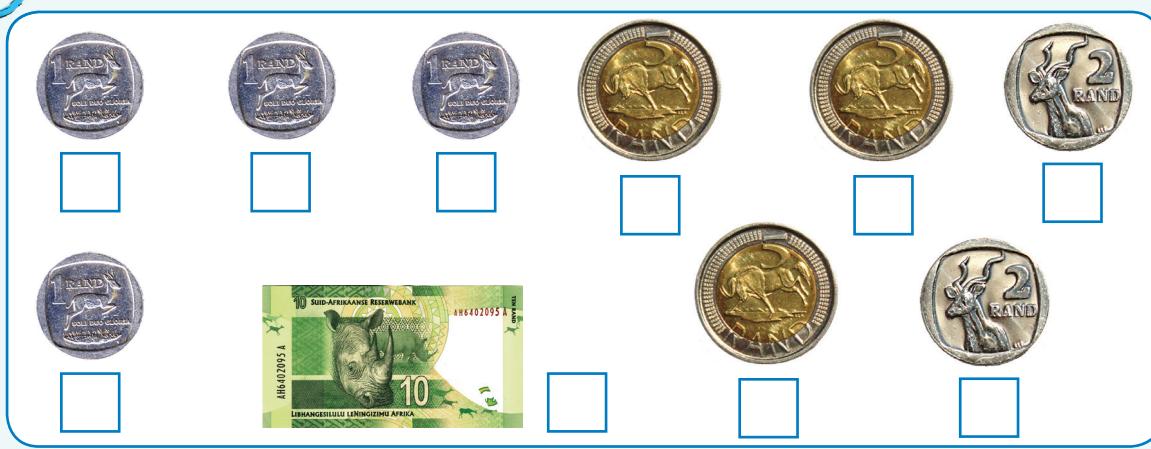
Itani thiki kha tshelede i re khulwanesa kha rou inwe na inwe.



Itani thiki kha khoini dzine dza ita RIO.



Itani thiki kha khoini dzine dza ita R20.



22

0

1

2

3

4

5

6

7

8

9

10



R5 + RIO =		R5 + R2 + R8 =		RIO + RIO =	
R3 + RIO + R2 + R2 =		R5 + R7 + RI + R5 =		RIO + RI + R5 + R2 =	



**Tandululani zwi tevhelaho:**

Ndi na khoini ya R2 na khoini ya R5.  
Khonani yanga u na khoini tharu dza R2.  
Ndi nnyi ane a vha na tshelede nnzhi?

Ndi na khoini ya R5 na khoini ya RI.  
Khonani yanga u na khoini tharu dza R5.  
Ndi nnyi ane a vha na tshelede nnzhi?



**Ndi na RI5:**

Ndi badela nga

Tshintshi

R4 + R 7 = RII	R4
R6 + R 9 =	
R8 + R3 =	
R2 + RII =	
R3 + R8 =	
R6 + R8 =	
RO + R2 =	
R2 + R2 =	
R4 + R2 =	
R6 + R2 =	



**Rekanyani zwi tevhelaho.**

Ndi na RI5. Ndi renga phakhethe ya matshipisi  
nga R6. Ndo salelwa nga vhugai?



**Fhungudzani nga R2.**

RII		R4	
RI2		R6	
RIO		R8	



76



Olani dzikhoini ni ite:

Themo ya 3



Itani thiki kha phindulo yone.



Rekanyani zwi tevhelaho.

## Tshelede na tshintshi

Deithi:

RI1	
RI2	
RI3	
RI4	

$$RI8 - R8 = \boxed{\phantom{00}}$$



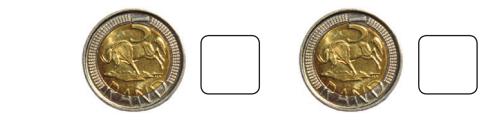
$$RI2 - R2 = \boxed{\phantom{00}}$$



$$RI5 - R4 = \boxed{\phantom{00}}$$



$$RI4 - R7 = \boxed{\phantom{00}}$$



$$RI5 - RIO = \boxed{\phantom{00}}$$

$$RIO - RI - RI - R2 = \boxed{\phantom{00}}$$

$$R2O - R2 - R8 = \boxed{\phantom{00}}$$

$$R5 - R4 = \boxed{\phantom{00}}$$

$$R2O - R5 = \boxed{\phantom{00}}$$

$$RIO - RI - R5 - R2 = \boxed{\phantom{00}}$$



Rekanyani zwi tevhelaho.

Ndi na R15 Nda renga nga:	Ndo salelwa nga vhugai?
R2 na R4 =	R9
R8 na R4 =	
R12 na R2 =	
R5 na R5 =	
R8 na R7 =	
R10 na R2 =	
R8 na R2 =	
R6 na R2 =	
R4 na R2 =	
R2 na R2 =	
R9 na R6 =	
R10 na R2 =	



Ndi na R15. Ndi renga phakhethé ya malegere nga RII.  
Ndo salelwa nga vhugai?

→



77

Deithi:

Themo ya 3

## Tshelede: Mu<sup>l</sup>tanganyo na mu<sup>l</sup>uso



Rekanyani zwi tevhelaho.

RIO + R2 =	
RIO + R4 =	
R9 + R5 =	
RI2 + R5 =	

RIO + R5 =	
RIO + R7 =	
R8 + R4 =	
RI4 + R2 =	

RIO + RI =	
RIO + R6 =	
R7 + R6 =	
RII + R6 =	



Rekanyani zwi tevhelaho.

RIO - R7 =	
RI5 - RI =	
RI2 - R2 =	
RI5 - R6 =	

RIO - R2 =	
RI5 - RI5 =	
RI4 - R7 =	
RI2 - R9 =	

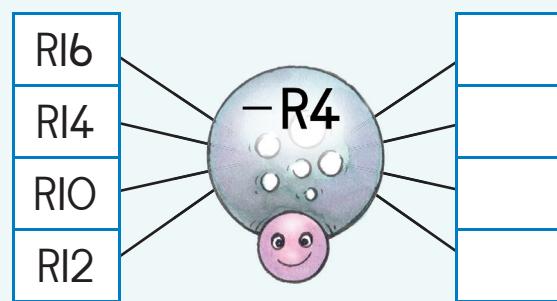
RIO - R5 =	
RI5 - R2 =	
RI6 - R6 =	
RI4 - R4 =	



Thusani buvhi u fhedzisa mbalo dzothé.



Fhungudzani nga R2.



$$R4 - R2 =$$

--



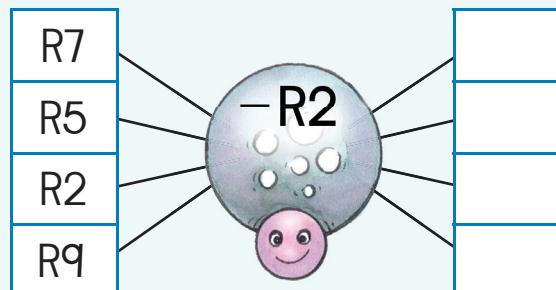
$$R7 - R2 =$$

--





Thusani buvhi u shuma mbalo dzot̄he dza mutuso.



Tandululani zwi tevhelaho.

No vha ni na R12. Mme aṇu vha ni fha R5.  
Ni na vhugai zwino?

Ni na R19. Na renga legere la R8.  
No salelwa nga vhugai?



Ndo vhulunga vhugai?



Sumbedzani mbalo kha mutalombalo ni rekanye phindulo.



78



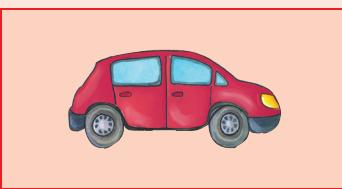
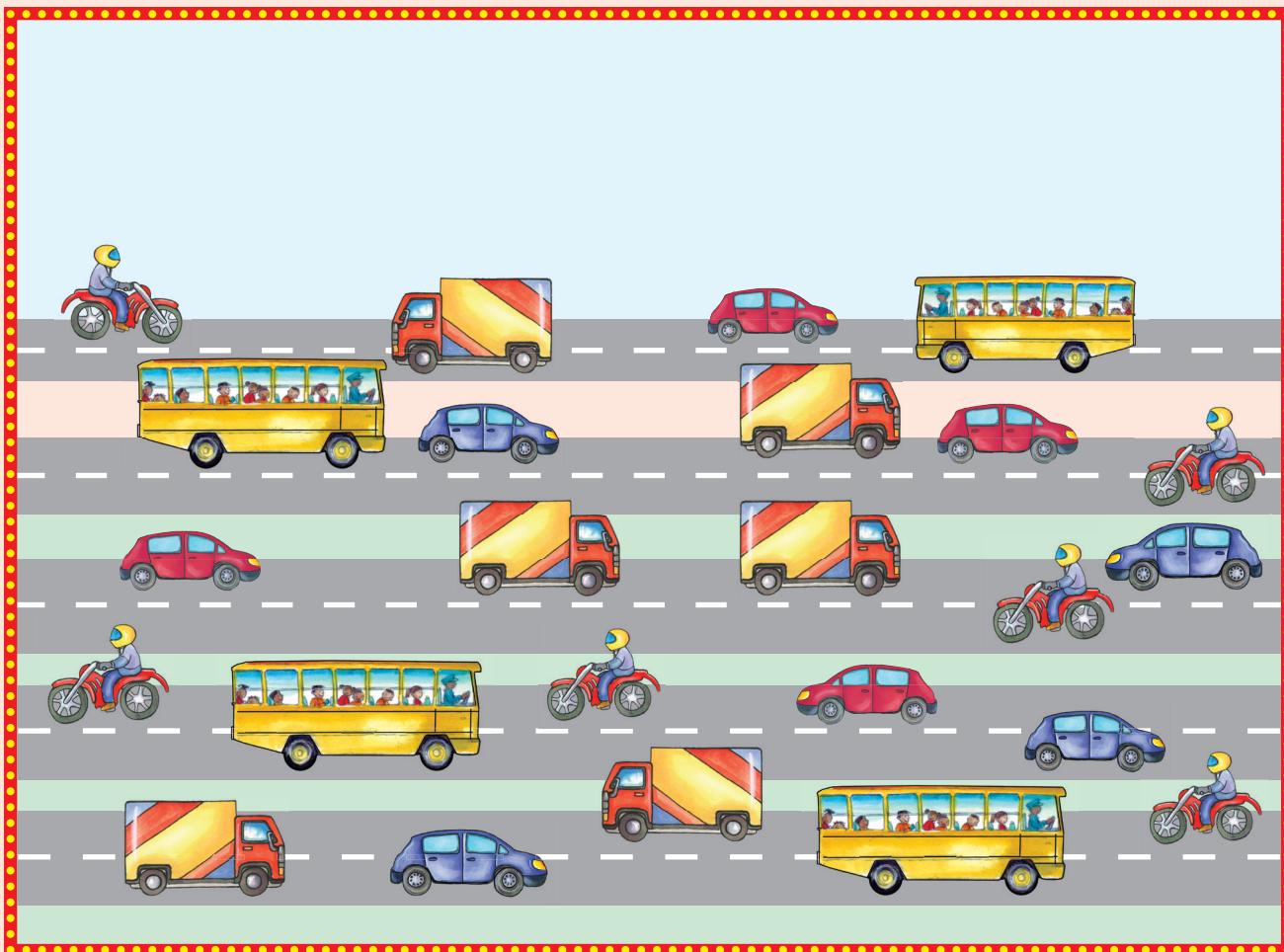
1

Vhalani uri ni kona u vhona zwiendedzi zwingana zwa lushaka luthihi.

Themo ya 3

## Data

Deithi:



28

0

1

2

3

4

5

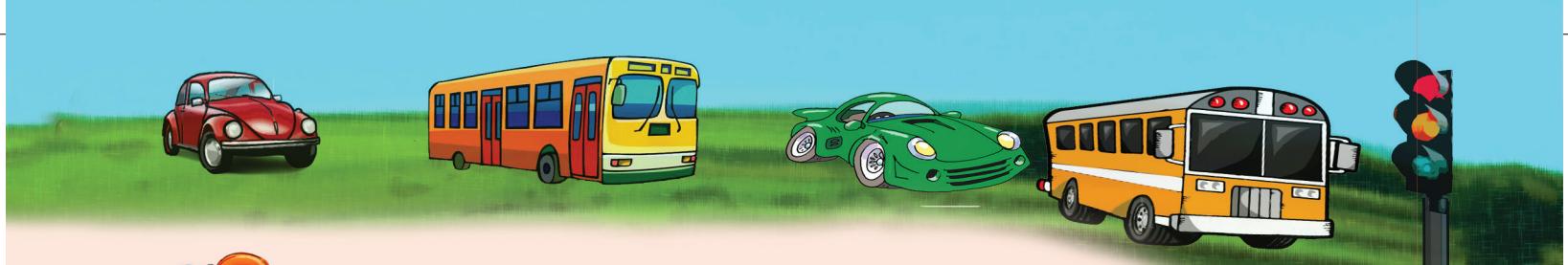
6

7

8

9

10



Vhalani zwivhumbeo ni khalare tshati i re afho fhasi ni tshi sumbedza uri hu na zwingana zwa tshivhumbeo tshiñwe na tshiñwe. Ni kone u fhindula mbudziso.



5						
4						
3						
2						
1						
	▲	●	■	◆	★	○

Zwivhumbeo zwa \_\_\_\_\_ ndi zwone zwinzhi.

Zwivhumbeo zwa \_\_\_\_\_ ndi zwone zwiñku.

Teacher:  
Sign:  
Date:



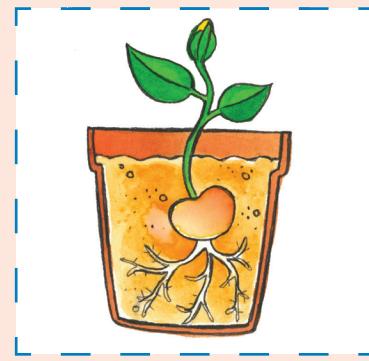
79



Themo ya 3

## Data na tshifhinga

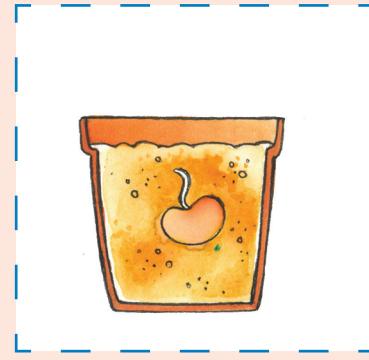
Ambani nga zwifanyiso izwi ni kone u zwi vhekanya nga thevhekano yone.



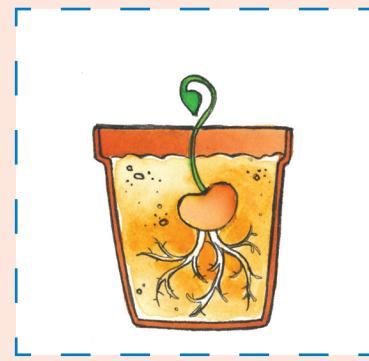
1



2



3

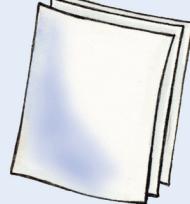


4

Deithi:



Fhedzisani phikhithogireme (nyolo ya zwifanyiso) ni tshi  
shumisa magaraṭa a u vhekanya a no bva kha Tshigeriwa I.



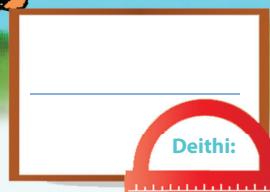
--	--	--	--



Teacher:  
Sign:  
Date:



80



Themo ya 3

## Zwigwada zwa zwitanuzwiyanu u swika kha 15

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo.

5

thanu



Lavhelesani tshifanyiso ni kone u fhindula mbudziso.



Ni nga ita zwigwada zwingana  
zwa zwa 5 (zwitanu).



Lavhelesani tshifanyiso.

Ri nga i nwala nga hei ndila.

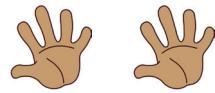
Olani zwanu hafha.



Tshigwada tshithihihi  
tsha dza 5 ndi 5



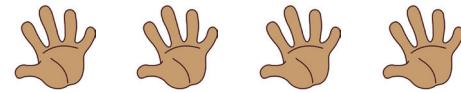
Vhalani minwe yanu ni nwale phindulo.



$$5 + 5 =$$



$$5 + 5 + 5 =$$



$$5 + 5 + 5 + 5 =$$

zwigwada zwa 2 zwa  
thanu ndi 10



0

1

2

3

4

5

6

7

8

9

10

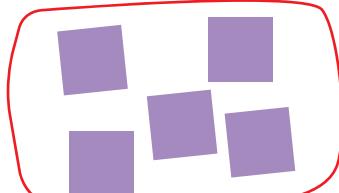


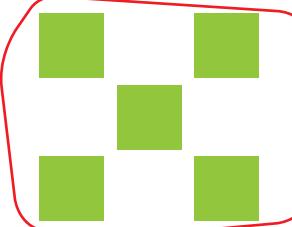
Olaní zvitendeledzi u  
mona na zwi tevhelaho ni  
vhumbe:



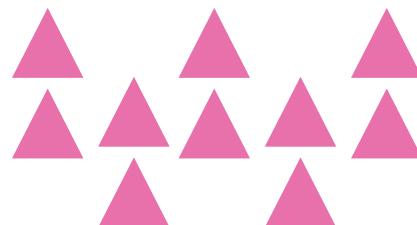
Nwalani mafhungombalo  
a zwi tevhelaho:

tshigwada tsha | tsha zwa 5



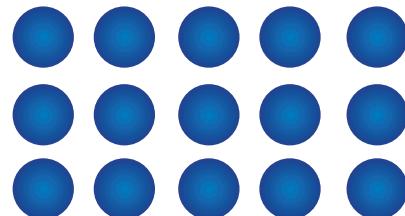


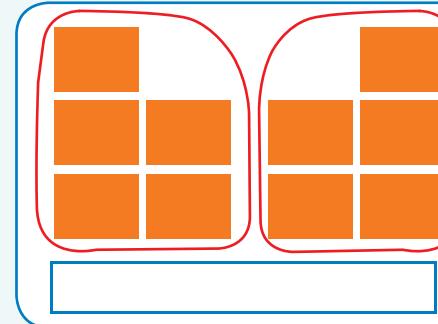

zwigwada zwa 2 zwa dza 5






zwigwada zwa 3 zwa zwa 5







Ni nga ita zwigwada zwingana zwa zwitanuzwitanu nga?

10	na	0	zwigwada zwa	
8	na	2	zwigwada zwa	
6	na	4	zwigwada zwa	
4	na	1	zwigwada zwa	
2	na	3	zwigwada zwa	



81



Deithi:

Themo ya 3

## Thanu: ndovhololo ya mułanganyo u swika kha 15

Mvusuludzo:

Mvusuludzo: Nwalani nomboro dzi no khou tłahela.



Hu na zwikunwe kana minwe mingana? Nwalani fhungombalo la hone.



Olani:

Tshigwada tsha miomva mitłanu

Zwigwada zwivhili zwa maluvha  
małanu kha tshithihi



Olani zwivhumbeo zwa zwi tevhelaho.

$$\boxed{5} + \boxed{5} = \boxed{10}$$

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



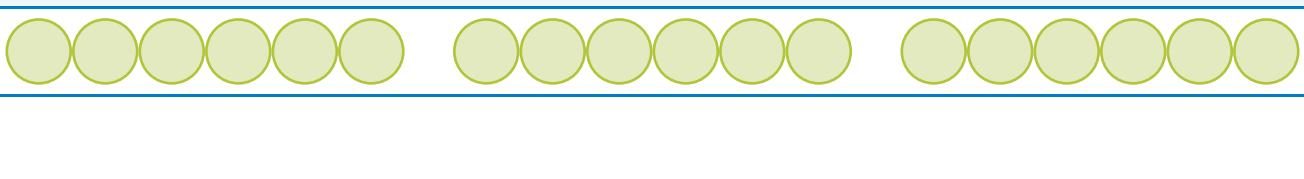
--	--	--	--	--	--	--	--	--	--



Tangedzelani ni vhale uri hu na zwigwada zwingana zwa mbilu t̄hanu zwine na nga ita kha garata l̄inwe na l̄inwe.



Nwalani fhungo mbalo la:



Shumisani mivhala yo fhambananaho kha u sumbedza nomboro dzine na do dici shumisa kha u vhumba zwigwada zwa zwi tanuzwi tanu.

I	2	3	4	5	6	7	8	q	10
II	I2	I3	I4	I5					

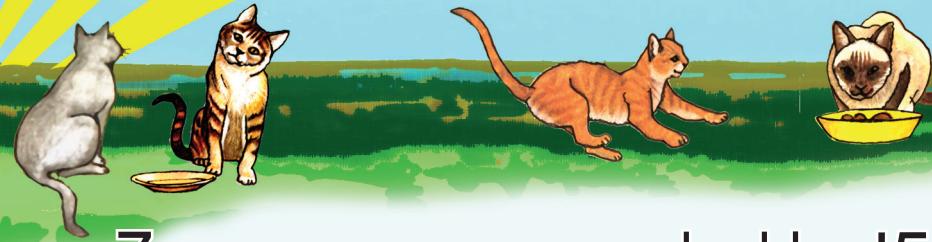


Ni nga kona u ita zwigwada zwingana zwa zwi tanuzwi tanu?

I	na	I4	dzi do ita	zwingada zwa	
I3	na	2	dzi do ita	zwingada zwa	
8	na	2	dzi do ita	zwingada zwa	
7	na	8	dzi do ita	zwingada zwa	
q	na	2	dzi do ita	zwingada zwa	



82



Deithi:

Themo ya 3



Nwalani nomboro dzi no khou t̄ahela.

I		3		5		7	8	9	
II	I2								



Itani zwigwada zwa zwit̄anuzwit̄anu.

Kugoñonozwithoma ku tea u vha na tshigwada tsha zwithoma zwit̄anu.  
Olani zwithoma zwi no khou t̄ahela.



36

0

1

2

3

4

5

6

7

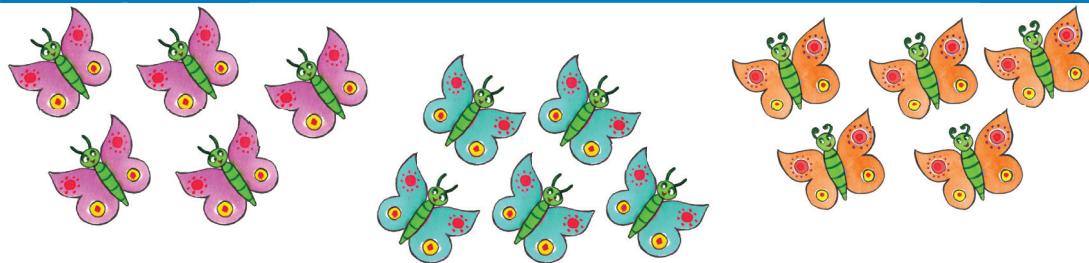
8

9

10



Nwalani mafhungombalo a izwi.



Rekanyani zwi tehelaho.

$$0 + \boxed{5} = \boxed{\quad}$$

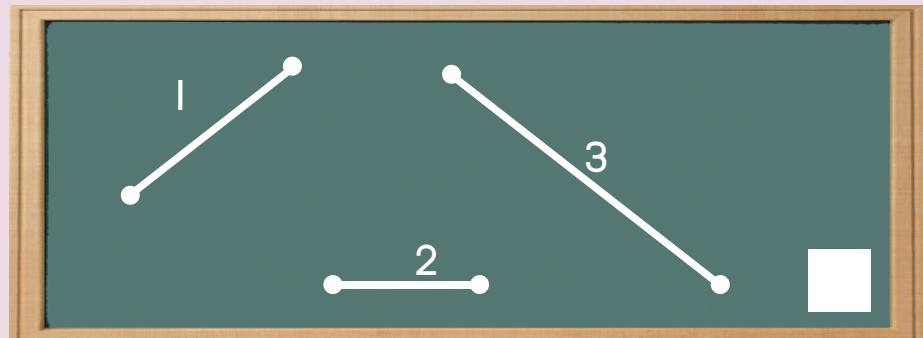
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\quad}$$

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

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

Mvusuludzo:

Mvusuludzo: Ndi mutaladzi ufhio u re mulapfusa?



Teacher:  
Sign:  
Date:



83



Deithi:

Themo ya 3

## Phetheni dza nomboro $\hat{t}$ hanu u swika kha 50

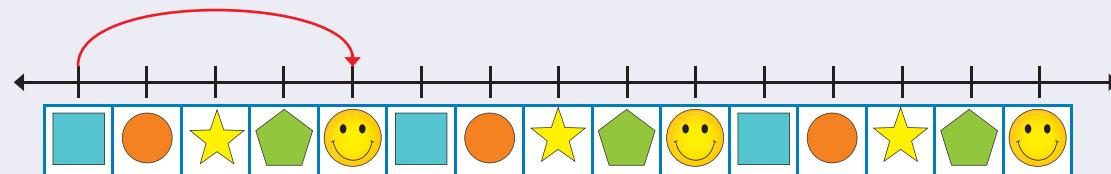


Fhedzisani phetheni ya  $\hat{t}$ hanu nga u khalara nomboro.

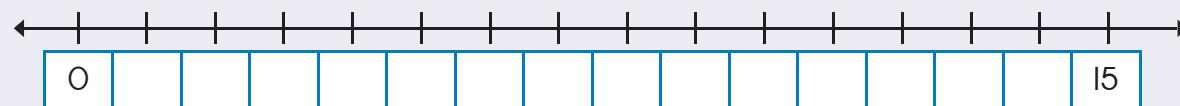
I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	20
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50



Olani dzihupu ni tshi sumbedza zwigwada zwa  $\hat{t}$ hanu.



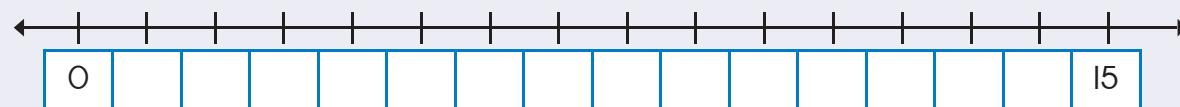
Dzhenisani nomboro dzi no khou  $\hat{t}$ ahela ni ole dzihupu ni tshi sumbedza zwigwada zwa  $\hat{t}$ hanu.



Fhedzisani mutalombalo.

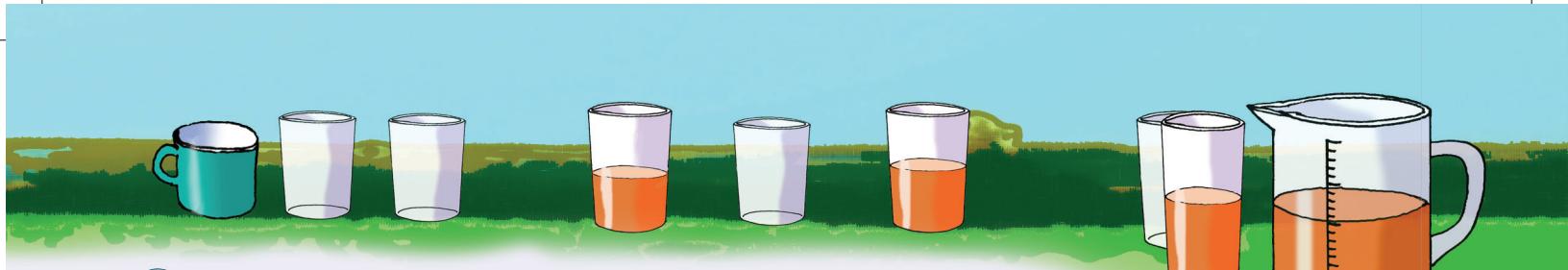
Olani dzihupu ni tshi sumbedza zwigwada zwa  $\hat{t}$ hanu.

Hu na zwigwada zwa  zwa  $\hat{t}$ hanu.

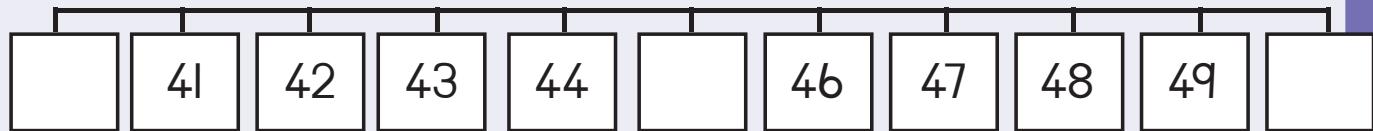
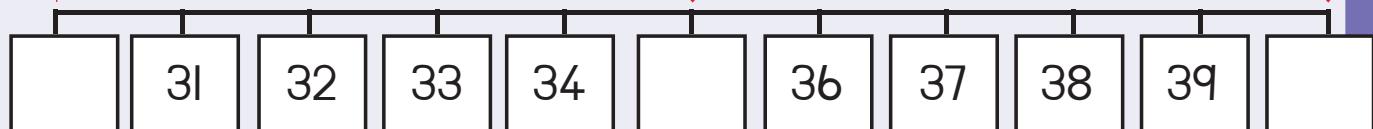


38

0 | 1 2 3 4 5 6 7 8 9 10

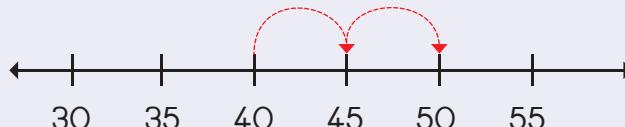


Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2 ni dzi vhee kha mitalombalo.

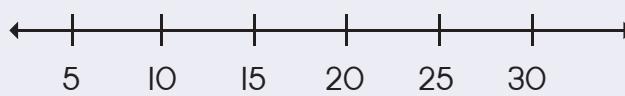


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

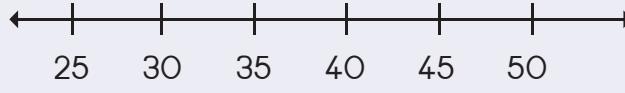
40, 45, 50



10, 15, 20



25, 30, 35



11 12 13 14 15 16 17 18 19 20



84



Deithi:

## Phetheni dza nomboro dza t̄hanu u swika kha 80

Themo ya 3



Ndi zwigwada zwingana zwa zwi $\ddot{\text{z}}$ anuzwi $\ddot{\text{z}}$ anu zwine na kona u zwi vhona tshifanyisoni itshi?



Fhedzisani zwifanyiso izwi ni tshi sumbedza zwigwada zwivhili zwa zwi $\ddot{\text{z}}$ anu tshibulokoni tshi $\ddot{\text{z}}$ we na tshi $\ddot{\text{z}}$ we.



40

0

1

2

3

4

5

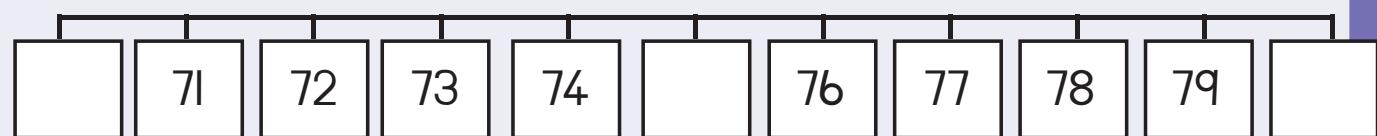
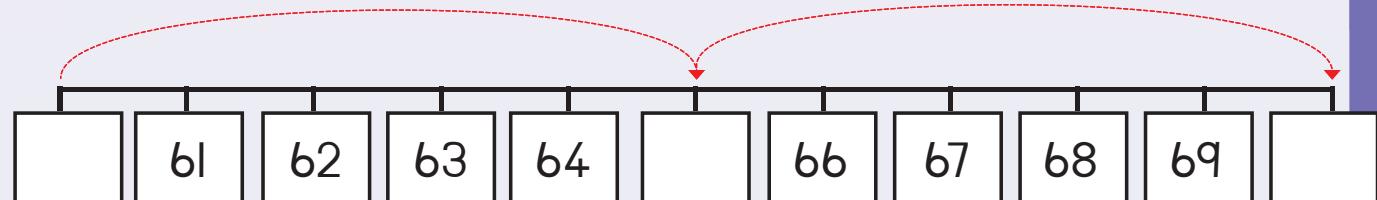
6

7

8

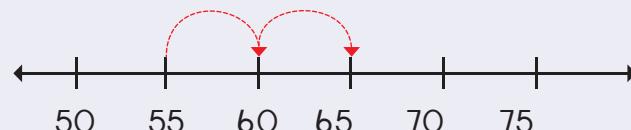
9

10



Olani dzihupu ni tshi sumbedza zwi tevhelaho:

55, 60, 65



65, 70, 75



70, 75, 80



11 12 13 14 15 16 17 18 19 20

Teacher:  
Sign:  
Date:



85



Themo ya 3

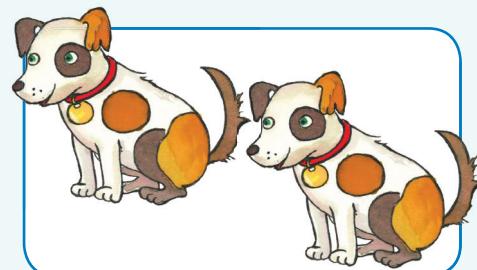
## Nyingakavhili



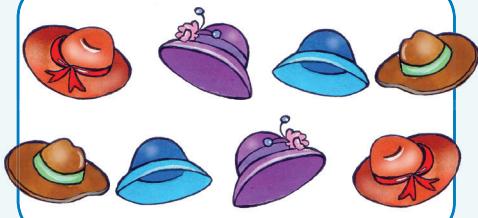
Ingani kavhili zwithu ni ḥwale phindulo.



I yo ingwa kavhili ndi



4 yo ingwa kavhili ndi



5 yo ingwa kavhili ndi



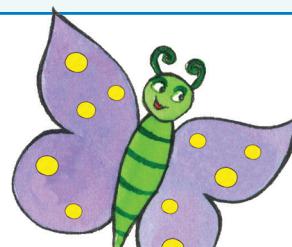
Vhalani zwivhumbeo zwi re kha besu ḥinwe na ḥinwe ḥa tshisu.

Fhedzisani mafhungombalo a nydingakavhili.



$$7 + 7 = \\ \text{kana}$$

7 yo ingwa kavhili =



$$5 + 5 = \\ \text{kana}$$

5 yo ingwa kavhili =

$$2 + 2 =$$

kana

2 yo ingwa kavhili =



42

0

1

2

3

4

5

6

7

8

9

10



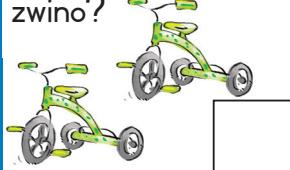
Fhedzisani zwi tevhelaho:

Ri ri 6 yo ingwa kavhili ndi 12. Hafu ya 12 ndi mini? \_\_\_\_\_

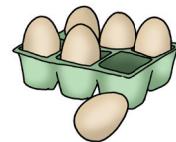
Ni kona u vhona malinga mangana?



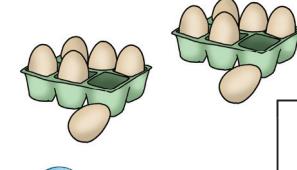
Ni kona u vhona malinga mangana zwino?



Hu na makumba mangana kha khathuni?



Hu na makumba mangana zwino?



Vhalani zwithoma ni zwi inge kavhili.



Ingani kavhili nomboro.

	1	yo ingwa kavhili →		2
	2	yo ingwa kavhili →		
	3	yo ingwa kavhili →		
	4	yo ingwa kavhili →		
	5	yo ingwa kavhili →		

4	yo ingwa kavhili →	8
5	yo ingwa kavhili →	
6	yo ingwa kavhili →	
3	yo ingwa kavhili →	
2	yo ingwa kavhili →	
10	yo ingwa kavhili →	



Fhedzisani zwi tevhelaho:

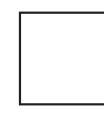
Hu na maduvha mangana kha vhege?

S	M	T	W	T	F	S

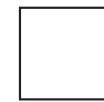


Hu na maduvha mangana kha vhege mbili?

S	M	T	W	T	F	S



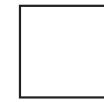
Ri ri 7 yo ingwa kavhili ndi 14.  
Hafu ya 14 ndi mini?



Ni kona u vhona milenzhe mingana?



Ni kona u vhona milenzhe mingana zwino?



Ri ri 2 yo ingwa kavhili ndi 4.  
Hafu ya 4 ndi mini?



Fhedzisani zwi tevhelaho:

$2 + 2 + 1 =$	5	kana	Ho ingwa kavhili $2 + 1 = 5$
$4 + 4 + 1 =$		kana	
$7 + 7 + 1 =$		kana	



86



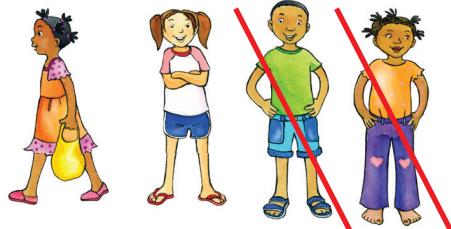
Deithi:

Themo ya 3

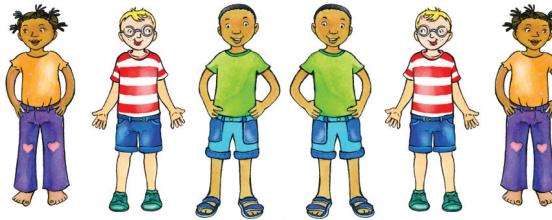
## Hafu



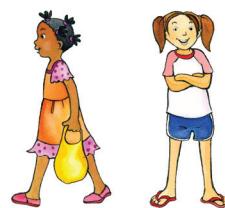
Hwayani hafu ya vhana ni nwale phindulo.



Hafu ya 4 ndi \_\_\_\_\_



Hafu ya 6 ndi \_\_\_\_\_



Hafu ya 2 ndi \_\_\_\_\_



Hafu ya 8 ndi \_\_\_\_\_



Hwayani hafu ni nwale phindulo.

Hafu ya 2 ndi =

Hafu ya 2 ndi =

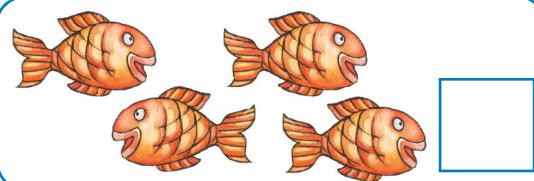
Hafu ya 4 ndi =

Hafu ya 10 ndi =

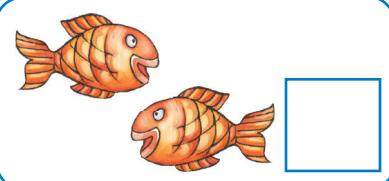
Hafu ya 6 ndi =



Hu na khovhe nngana?



Hafu ya khovhe dzothé ndi?





Vhalani zwithoma ni zwi hafule.



2

yo hafulwa →



4

yo hafulwa →



6

yo hafulwa →



8

yo hafulwa →



10

yo hafulwa →



Hafulanini nomboro.



Hu na mashonzha mangana?



Hafu ya mashonzha ndi:



Fhindulani zwi tevhelaho:

Hu na milenzhe mingana?



Hu na milenzhe mingana zwino?



Ri ri hafu ya 8 ndi



Teacher:  
Sign:  
Date:



11

12

13

14

15

16

17

18

19

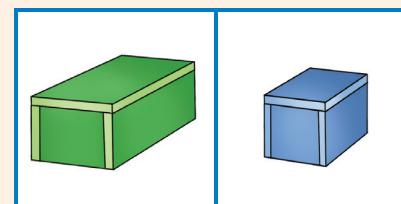
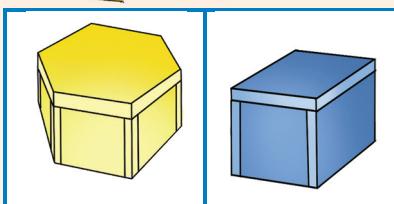
20



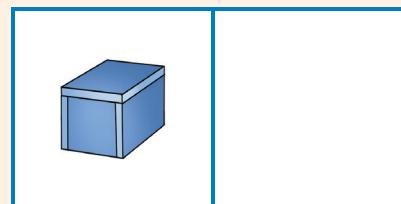
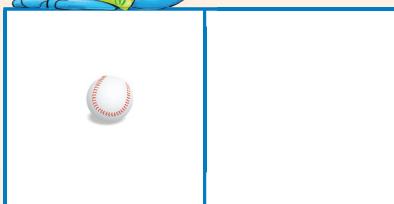
## Zwithu zwa 3-D



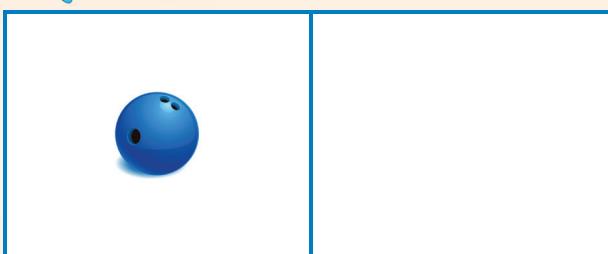
Itani thiki kha tshithu tshitukusa.



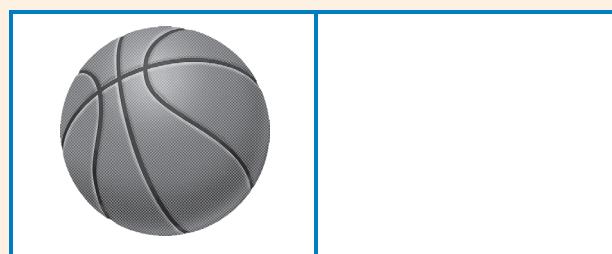
Olani tshithu tshihulwane kha tshanda tsha u la tsha tshifanyiso tshiñwe na tshiñwe.



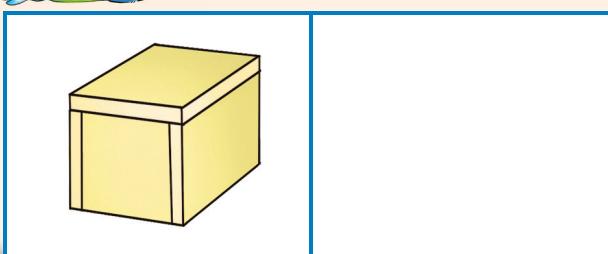
Olani bola i re khulwane kha bola ya lutombo.



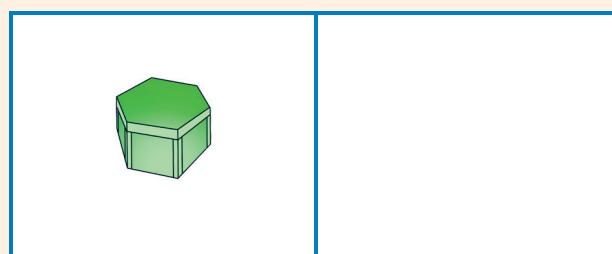
Olani bola i re thukhu kha bola ya gireyi.



Olani bogisi li re lihulwane kha bogisi la tada.

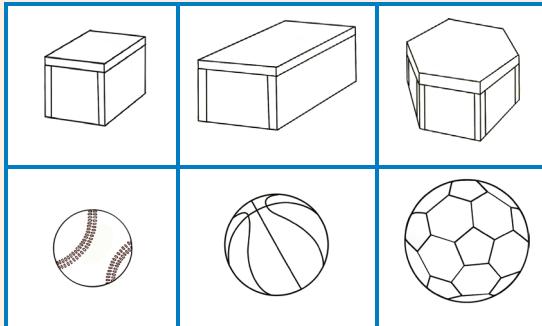


Olani bogisi li re lihulwane kha bogisi lidala.

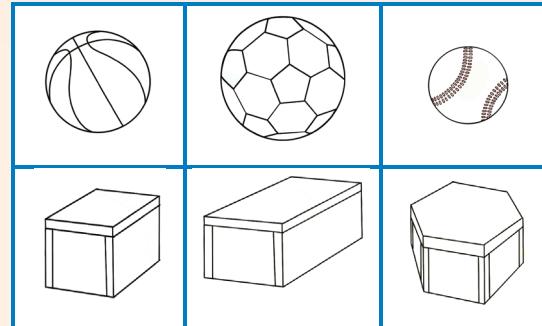




 Khałarani bogisi l̄itukusa nga muvhala wa lutombo na bola ḫthukhusa nga muvhala wa ṭada.



Khałarani bogisi l̄ihulwanesa nga muvhala wa pinki na bola khulwanesa nga muvhala mutswuku.



Ni nga kona u fhaṭa thawara nga zwithu zwi tevhelaho?

Khałarani ee kana hai.



ee      hai

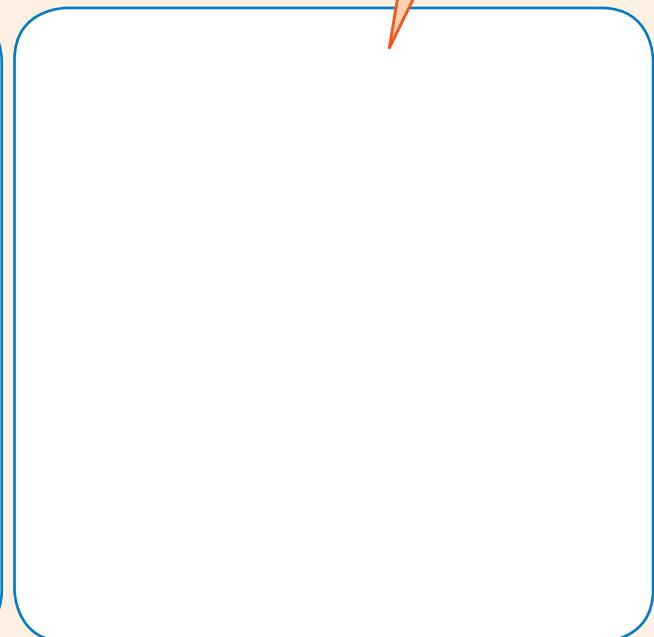
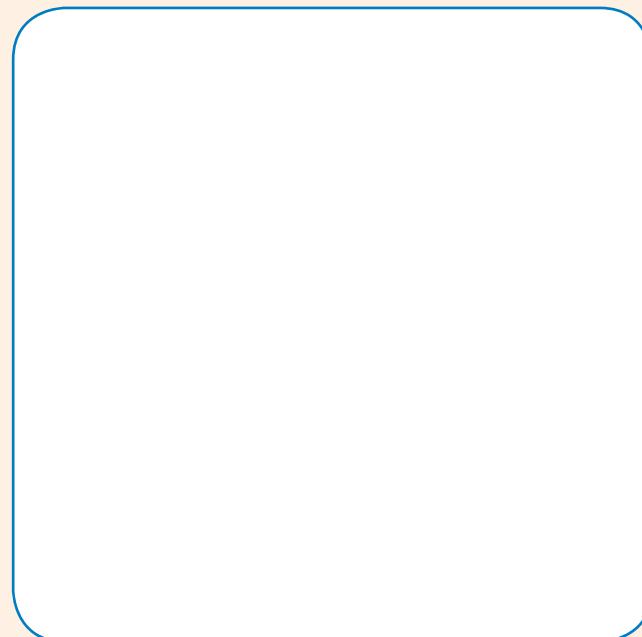
ee      hai

ee      hai



Gerani ni nambatedze zwifanyiso zwi no bva kha magazini kana gurannda ni tshi ita thawara mbili dza inwi muñe.

Ni elelwe uri thawara idzi dzi tea u ima nga dzot̄he (u balantsa).



88



Deithi:

Themo ya 3



Izwi zwithu zwi do kunguluwa kana zwi do swenda?  
Khałarani phindulo i re yone.



u kunguluwa

u swenda



u kunguluwa

u swenda



u kunguluwa

u swenda

u kunguluwa u swenda



Zwi tevhelaho zwi a konadzea?  
Khałarani phindulo i re yone.



ee

hai



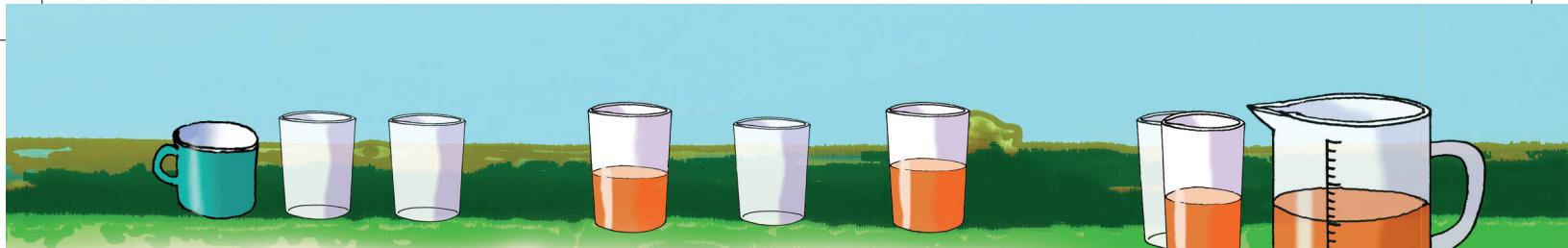
ee

hai



ee

hai



Vhekanyani zwithu zwi tevhelaho nga u zwi ola tshibulokoni tshone.

	Bola	Mabogisi
--	------	----------



Vhekanyani zwithu nga saizi yazwo ni tshi tou zwi ola.

	Bola t̄hukhu	Mabogisi mat̄uku
	Bola khulwane	Mabogisi mahulwane

89



Deithi:

Themo ya 3

## Phetheni dza dzhometřiri

Mvusuludzo:

Oiani zwi tevhelaho:

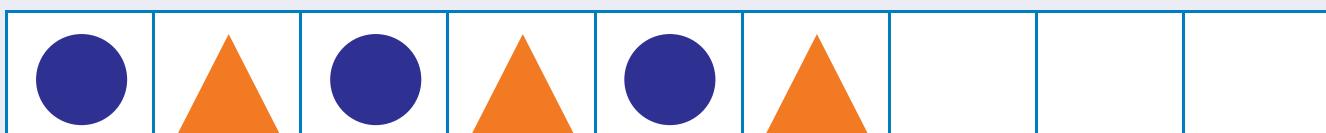
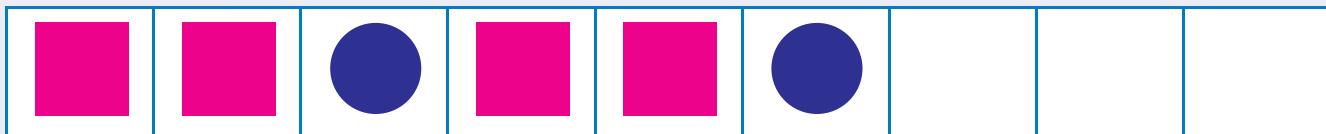
tshitendeledzi

tshikwea

rekithiengele



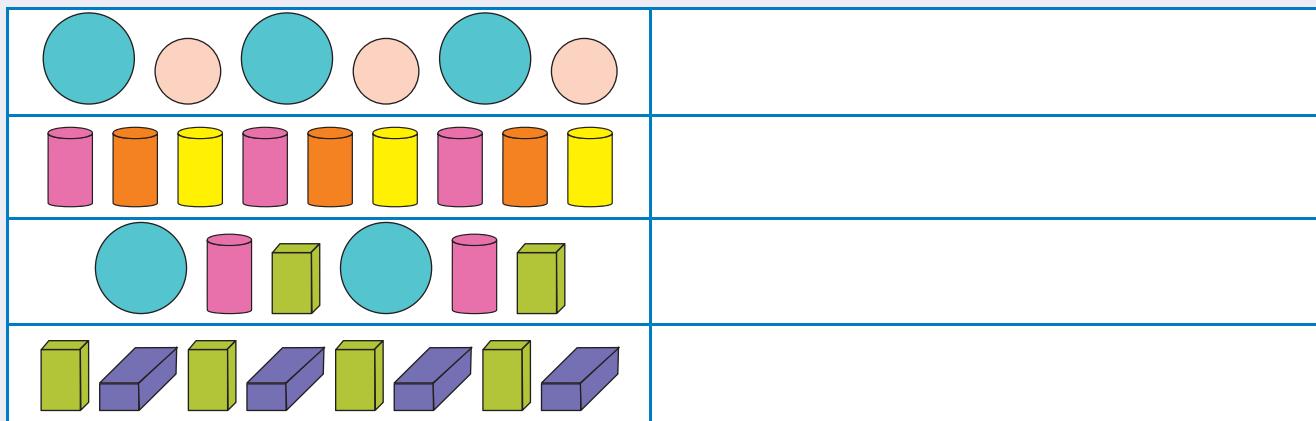
Fhedzisani phetheni.



0 1 2 3 4 5 6 7 8 9 10



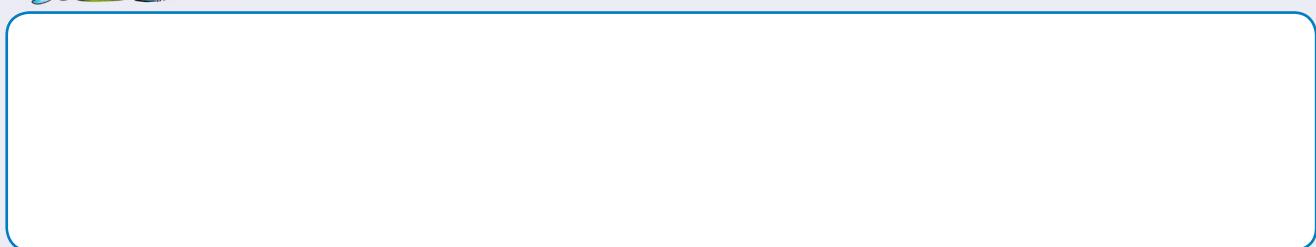
Olani zwifanyiso ni tshi isa phanda na phetheni.



Olani phetheni yanu inwi muñe.



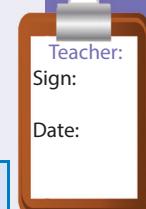
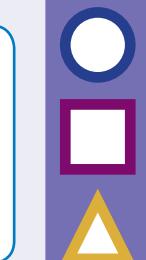
Nambatedzani zwifanyiso ni tshi ita phetheni yanu inwi muñe.



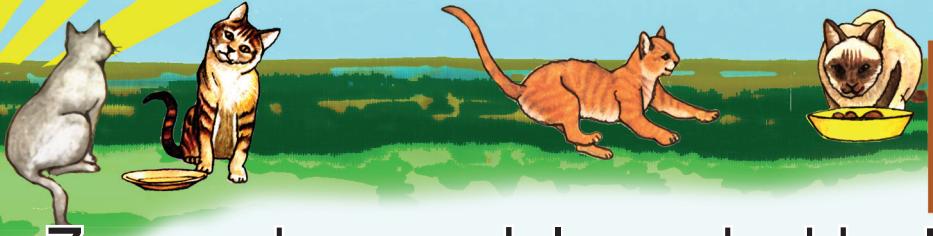
Fhedzisani phetheni iyi.

A	B	C	A	B	C				A	B	C
---	---	---	---	---	---	--	--	--	---	---	---

11 12 13 14 15 16 17 18 19 20



90



Themo ya 3

## Zwigwada zwa mbili u swika kha 15



Ńwalani dzinambalo la tshiga itshi.

2

mbili



Fhindulani mbudziso.



Ni kona u vhona phingwini nngana?

Ni kona u vhona phere nngana dza milenzhe?

I ńwaleni sa fhungombalo:



Fhindulani mbudziso.

Hu na bugu nngana?



Ndi nga kona u ita zwigada zwingana zwa mbili?

I ńwaleni sa fhungombalo.



Ńwalani dzinambalo la tshiga itshi.

4



Vhalani mabesu, ni ńwale phindulo yanu.



$$2 + 2 =$$



$$2 + 2 + 2 =$$



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



0

1

2

3

4

5

6

7

8

9

10

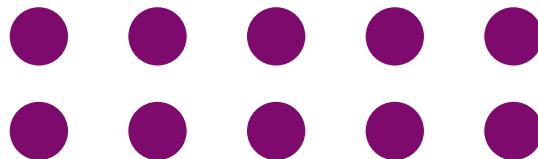


Itani zvitendeledzi u mona na zwi tevhelaho uri ni ite:

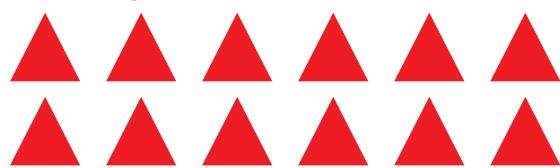
zwigwada zwa 4 zwa dza 2



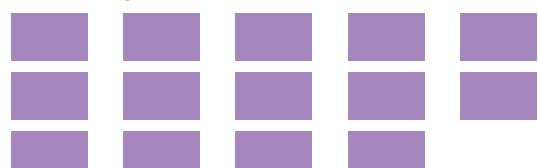
zwigwada zwa 5 zwa zwa 2



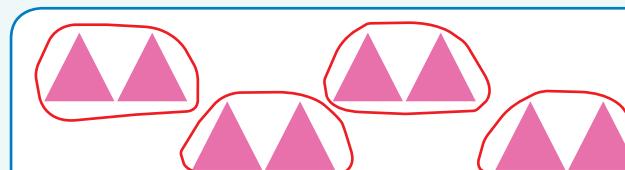
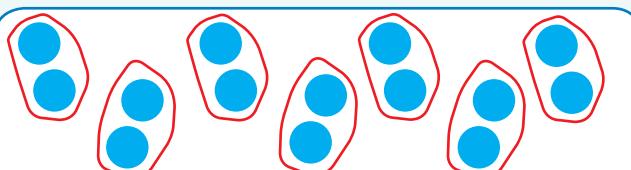
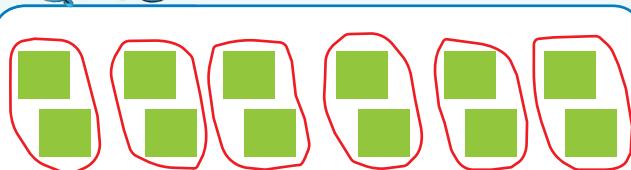
zwigwada zwa 6 zwa dza 2



zwigwada zwa 7 zwa dza 2



Nwalani fhungombalo la zwi tevhelaho.



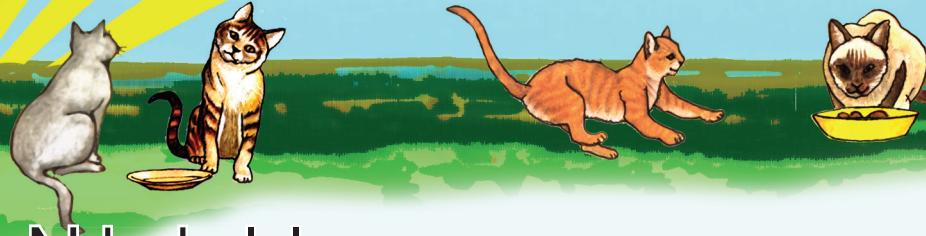
Ni nga ita zwigwada zwingana zwa zwihili?

I3 na I dzi ita	zwigwada zwa
II na I dzi ita	zwigwada zwa
9 na I dzi ita	zwigwada zwa
7 na I dzi ita	zwigwada zwa

I2 na I dzi ita	zwigwada zwa
5 na I dzi ita	zwigwada zwa
I na I dzi ita	zwigwada zwa
IO na O dzi ita	zwigwada zwa



q1

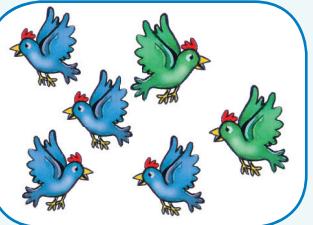
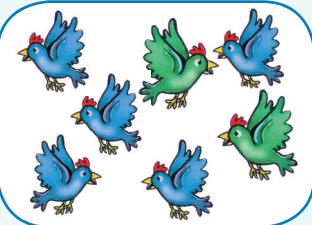
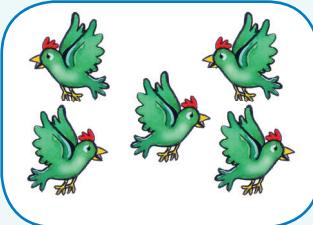


Themo ya 3

## Ndovhololo ya mut<sup>u</sup>anganyo wa mbili u swika kha 15



Hu na milenzhe mingana?



No i vhalisa hani?



Olani zwivhumbeo ni tshi sumbedza zwi tevhelaho:

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



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

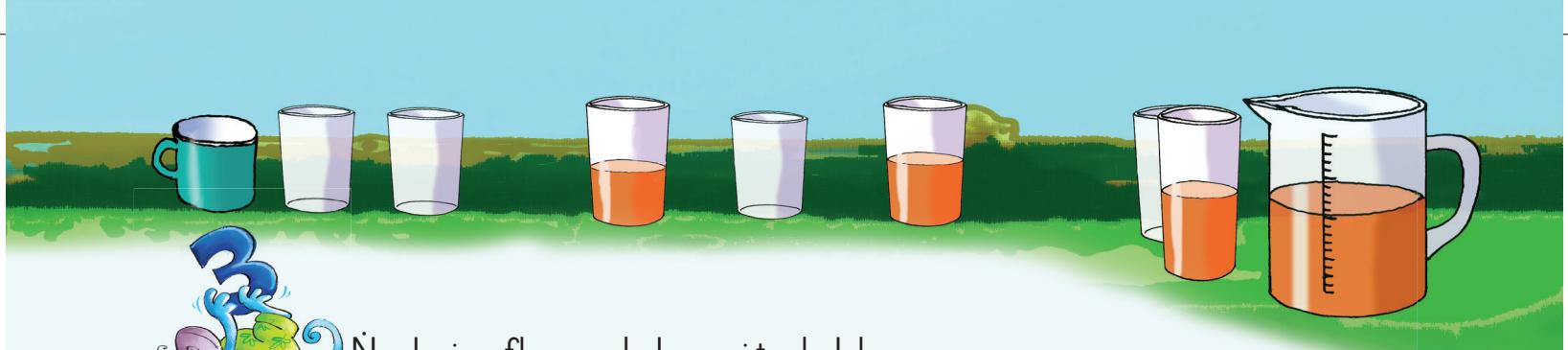


$$2 + 2 + 2 + 2 = \boxed{\quad}$$



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





Ńwalani mafhungombalo a zwi tevhelaho:

<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"/>
$2 + 2 + 2 + 2 + 2 = \boxed{\quad}$								

<input type="text"/>								

<input type="text"/>								

<input type="text"/>								



Tangedzelani ni vhale uri hu na zwigwada zwingana zwa mbilu  
mbili zwine na nga ita kha garata línwe na línwe.

<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"/>



Fhedzisani phetheni iyi ya nomboro dzine na do dzi shumisa kha u vhumba  
zwigwada zwa zwivhilizvhili.

1	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5					

II I2 I3 I4 I5 I6 I7 I8 I9 20

Teacher:  
Sign:  
Date:



q2



Deithi:

Themo ya 3

## Zwihilizwihili u swika kha l5



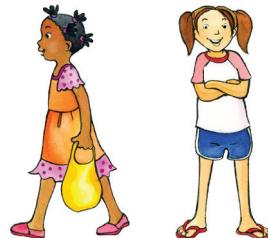
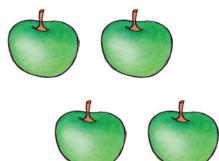
Ńwalani nomboro dzi no khou t̄ahela.

- |    |  |    |  |    |  |   |  |   |  |
|----|--|----|--|----|--|---|--|---|--|
| I  |  | 3  |  | 5  |  | 7 |  | 9 |  |
| II |  | 13 |  | 15 |  |   |  |   |  |



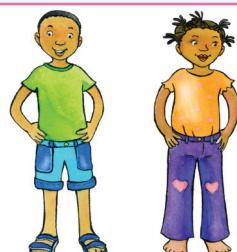
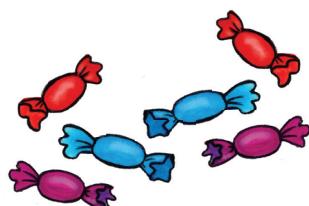
Itani zwigwada zwa mbili.

Itani tshitendeledzi u mona na tshigwada tshiñwe na tshiñwe tsha mbili.



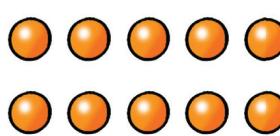
Hu na zwigwada zwingana zwa maapula?

Ńwana muñwe na muñwe u do wana maapula mangana?



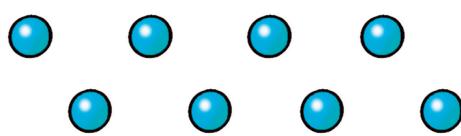
Hu na zwigwada zwingana zwa malegere?

Ńwana muñwe na muñwe u do wana malegere mangana?



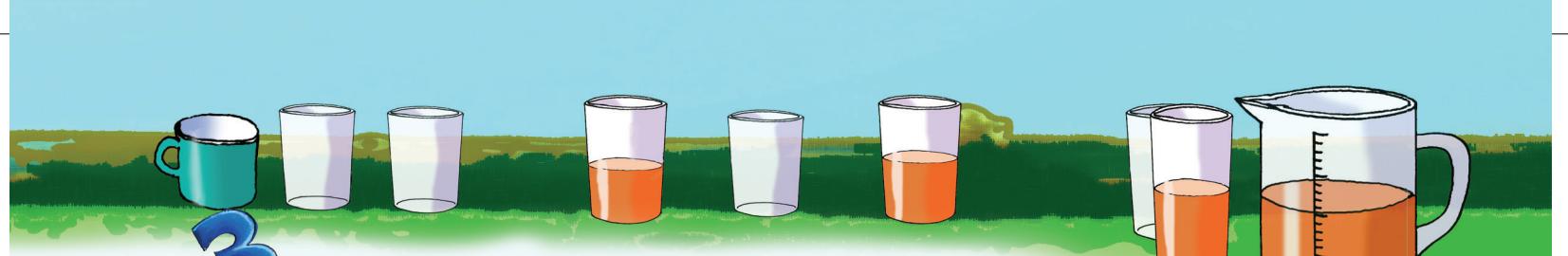
Hu na zwigwada zwingana zwa mimavhulu?

Ńwana muñwe na muñwe u do wana mimavhulu mingana?



Hu na zwigwada zwingana zwa mimavhulu?

Ńwana muñwe na muñwe u do wana mimavhulu mingana?



Nwalani nomboro  
dzi no khou t̄ahela.

1	2	3	4		6	7	
2	4		8	10		14	16
0	3	6		12		18	21



Nwalani fhungombalo ni tshi shumisa mbili.

$2 + 2 + 2 + 2 + 2 + 2 + 2 =$	<input type="text" value="14"/>

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

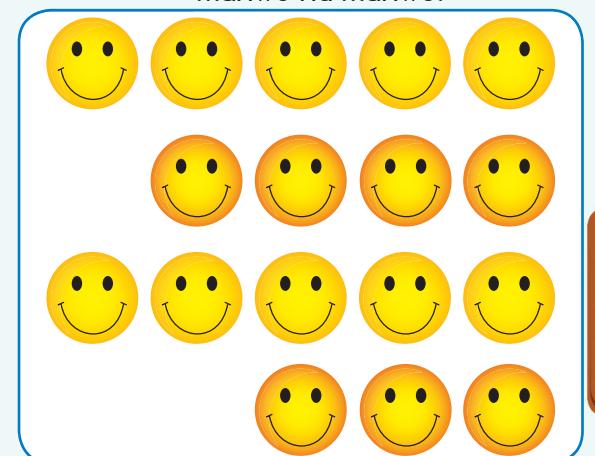


Rekanyani zwi tevhelaho.

$2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 + 2 + 2 =$	<input type="text"/>



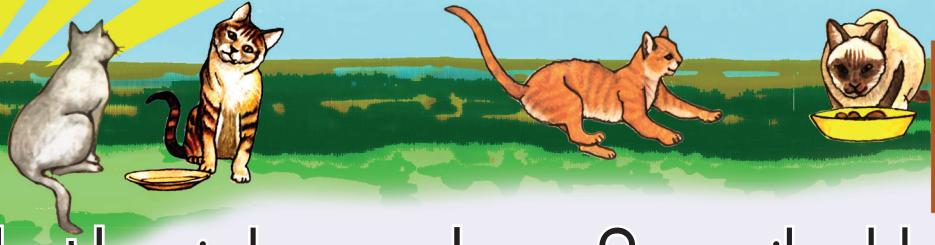
Tangedzelani zwigwada zwa  
zwivhilizwihili kha mutaladzi  
muñwe na muñwe.



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



q3



Themo ya 3

## Phetheni dza nomboro 2 u swika kha 50



Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2 ni dzi vhee kha mutalombalo. Ni ite na u fhedzisa dzihupu.



Fhedzisani phetheni nga u khala rā nomboro dzone.

31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Olani dzihupu ni tshi sumbedza zwi tevhelaho:

30, 32, 34

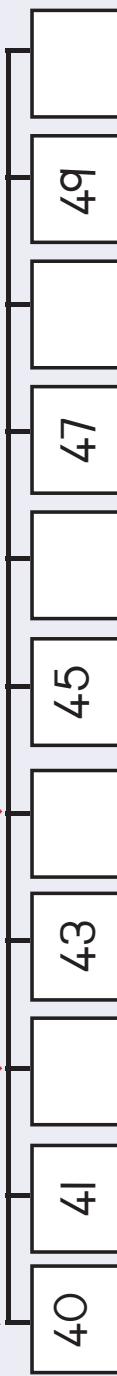
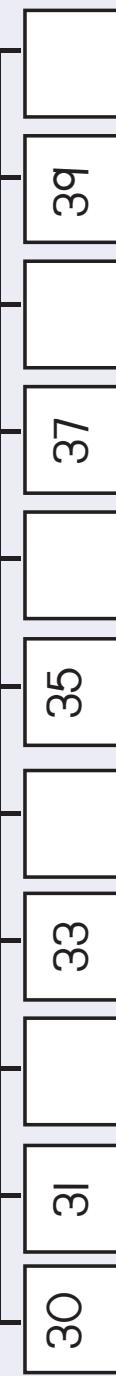
28 30 32 34 36 38

40, 42, 44

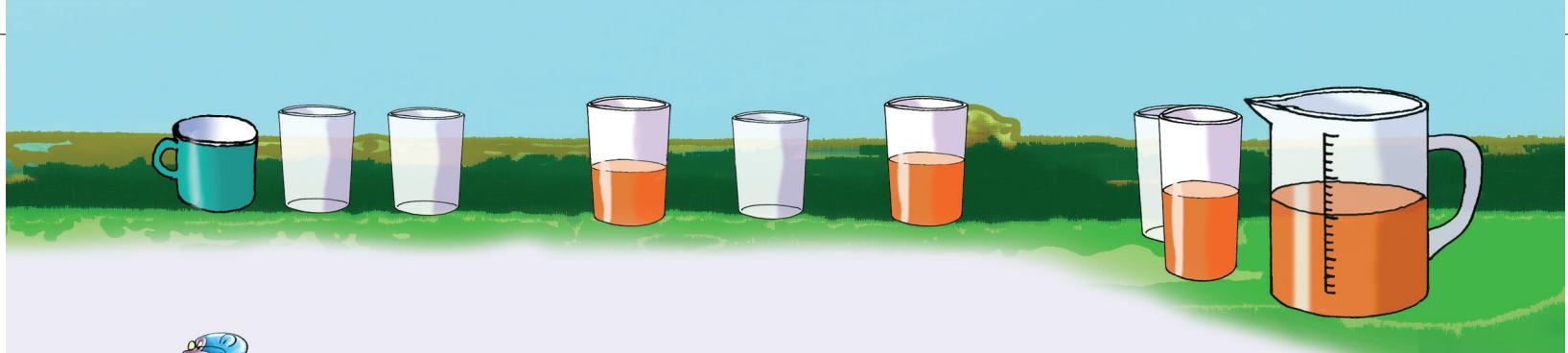
38 40 42 44 46 48

46, 48, 50

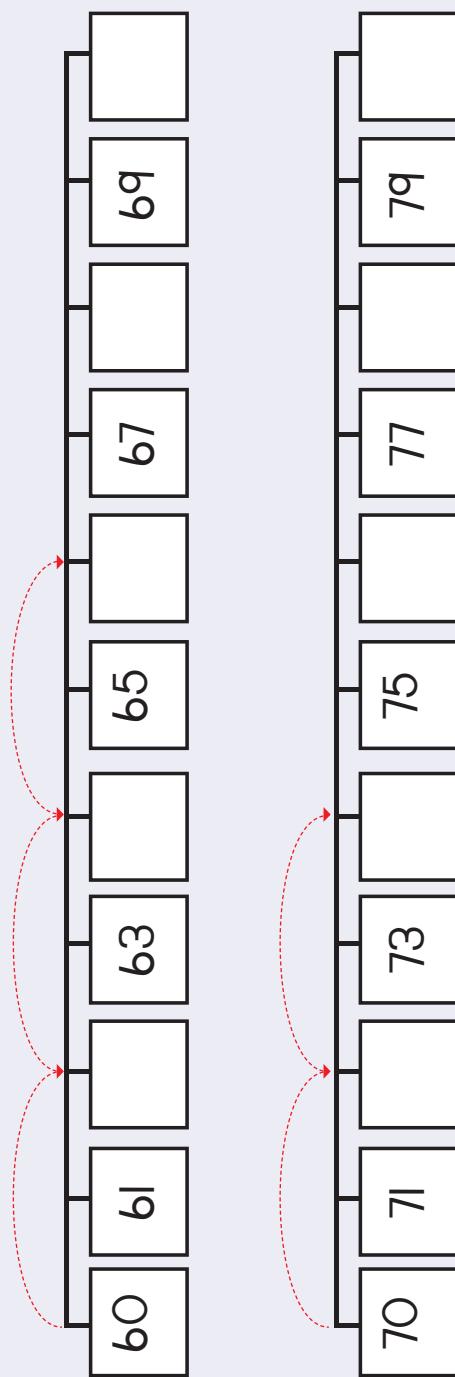
40 42 44 46 48 50



58



Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2 ni dzi vhee kha mutalombalo. Ni ite na u fhedzisa dzihupu.



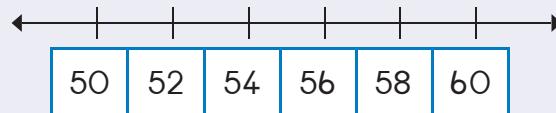
Fhedzisani phetheni nga u khalara nomboro dzone.

61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

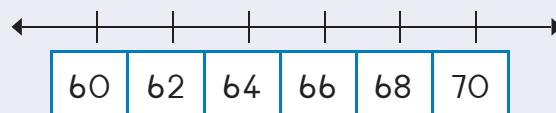


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

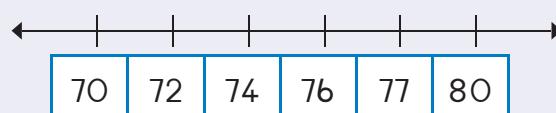
54, 56, 58



64, 66, 68



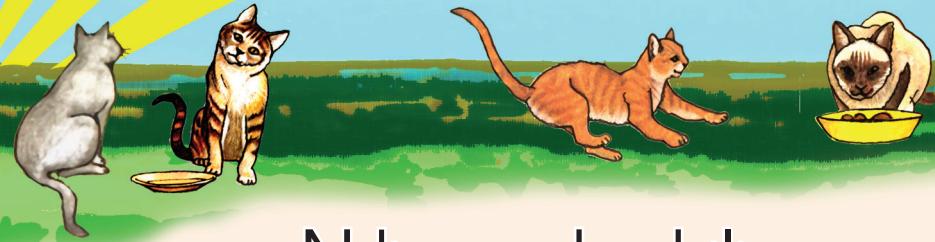
72, 74, 76



Teacher:  
Sign:  
Date:



q4



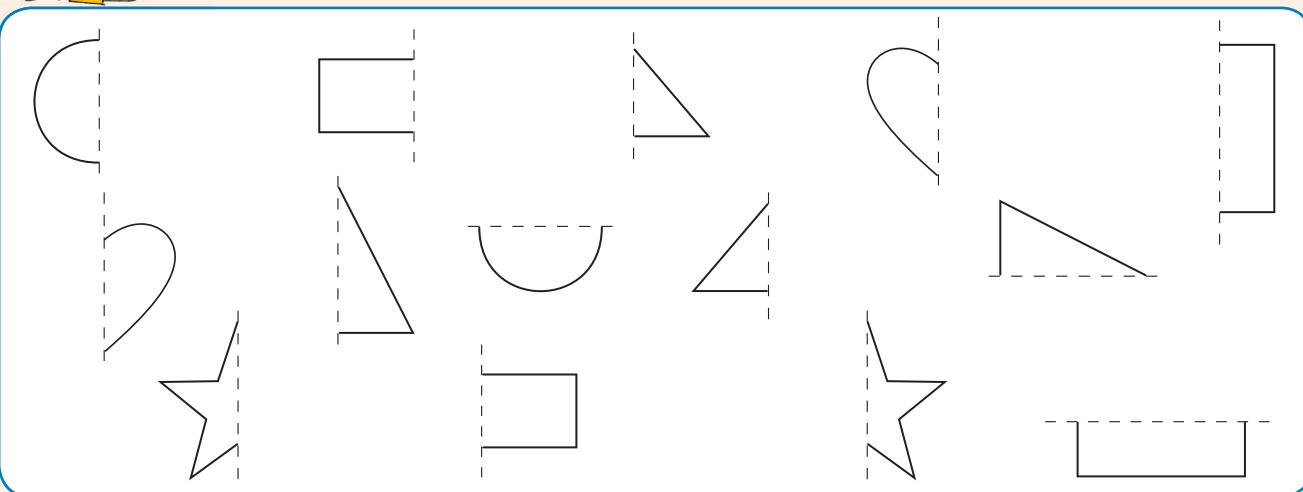
Deithi:

Themo ya 3

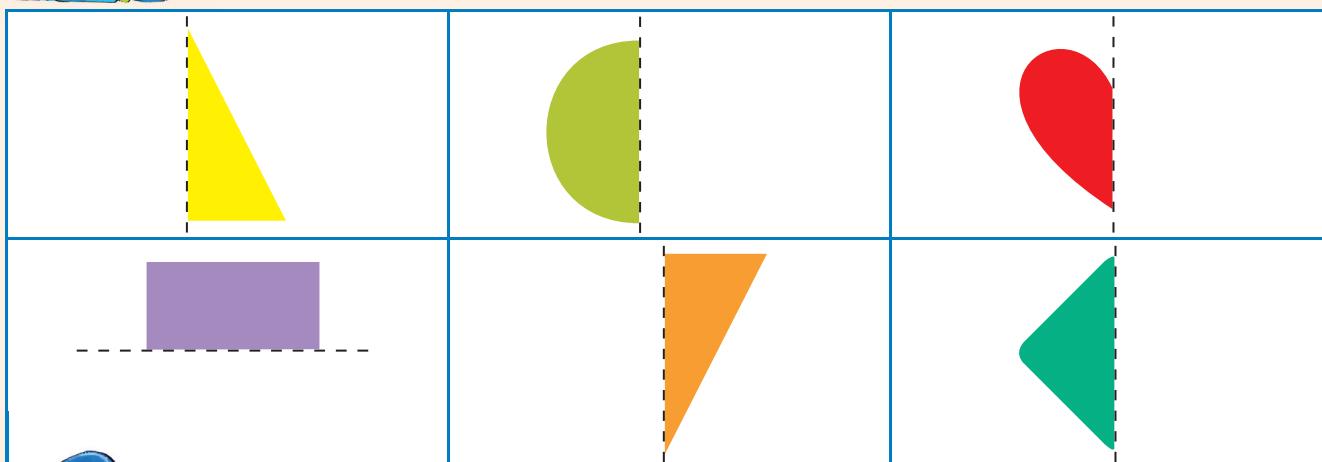
## Ndinganahuvhili



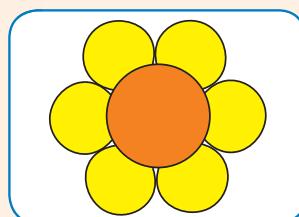
Khałarani zwipiða zwivhili zwa zwivhumbeo zwine zwa ḋo vhumba tshivhumbeo tshithihi.



Olani ila iñwe hafu ni i khałare.



Talani mutalo u no fhandula zwifanyiso izwi zwa bva hafu mbili dzi no lingana kwakkawka.



60

0

1

2

3

4

5

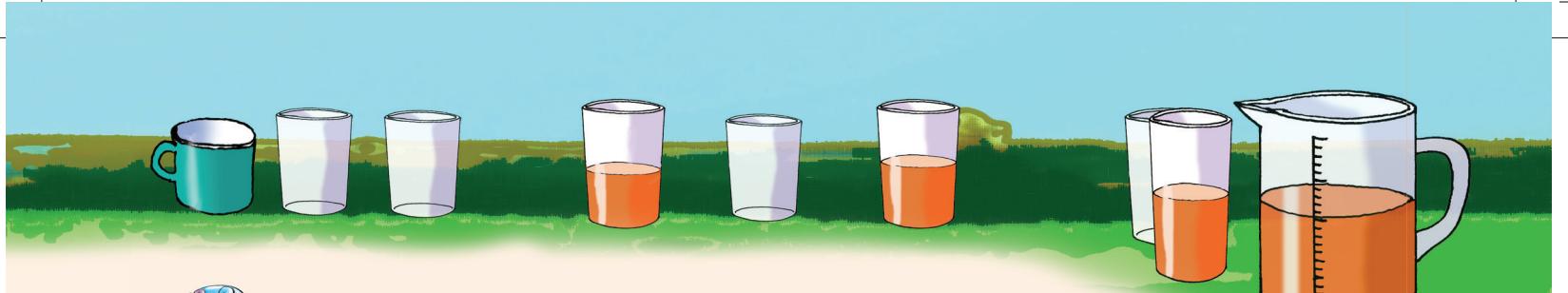
6

7

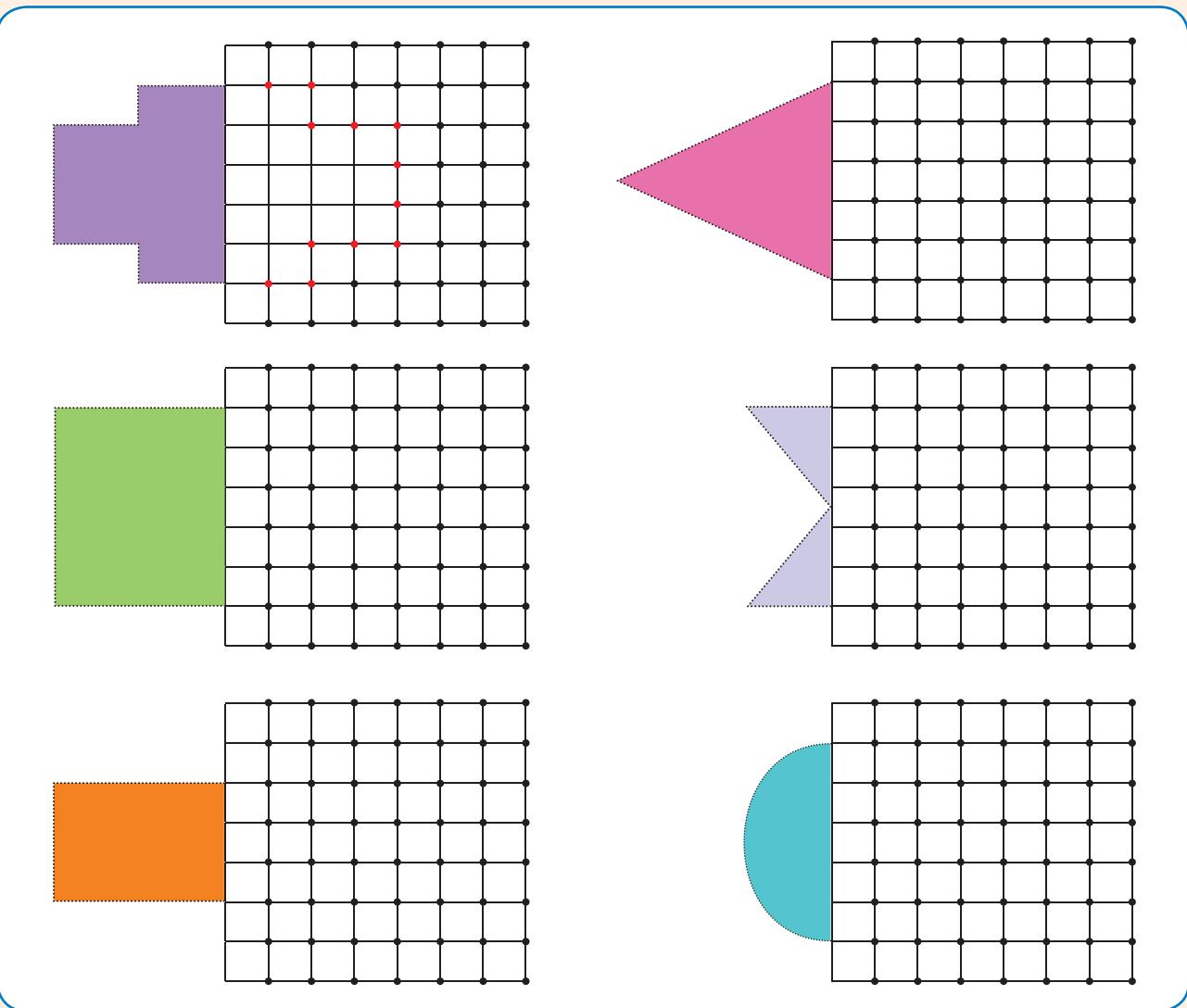
8

9

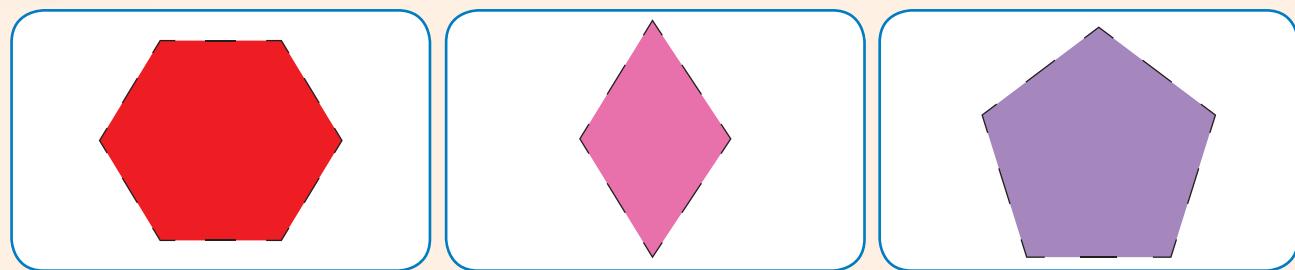
10



Olani ila inwe hafu ya tshivhumbeo ni tshi shumisa bodo ya giridi uri i ni dededze.



Talani mutalo u no fhandula zwivhumbeo izwi zwa bva hafu mbili dzi no lingana kokotolo.



11 12 13 14 15 16 17 18 19 20



Teacher:  
Sign:  
Date:

95



Deithi:

Themo ya 3

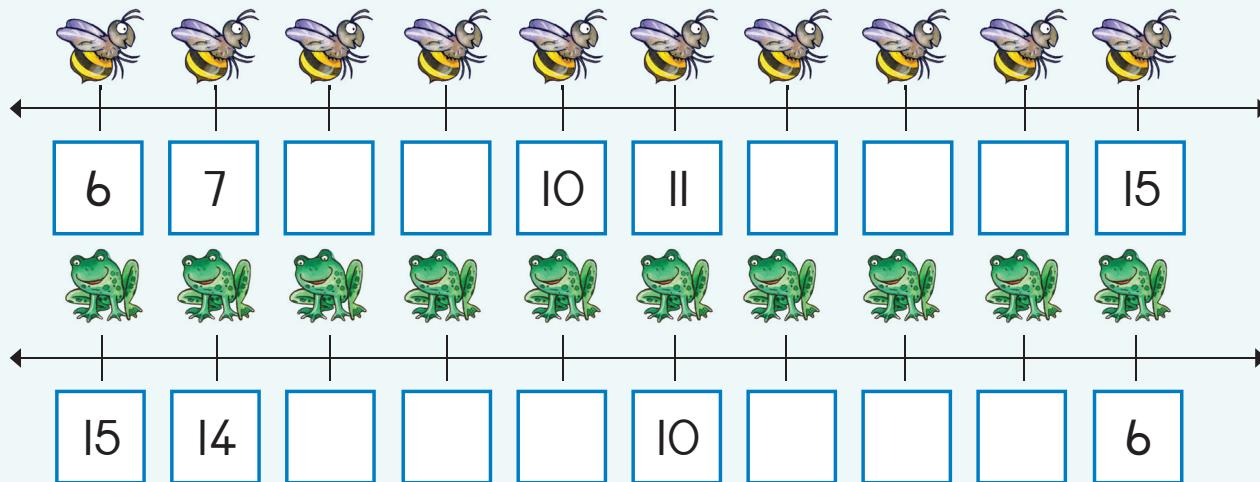


Nwalani nomboro dzi no khou t̄ahela.

10	II					15
q	10					



Nwalani nomboro dzi no khou t̄ahela.



Nwalani phindulo.

$10 + 1 =$	II
$10 + 2 =$	
$10 + 5 =$	
$10 + 3 =$	

$15 - 10 =$	
$14 - 10 =$	
$12 - 10 =$	
$II - 10 =$	



62

0

1

2

3

4

5

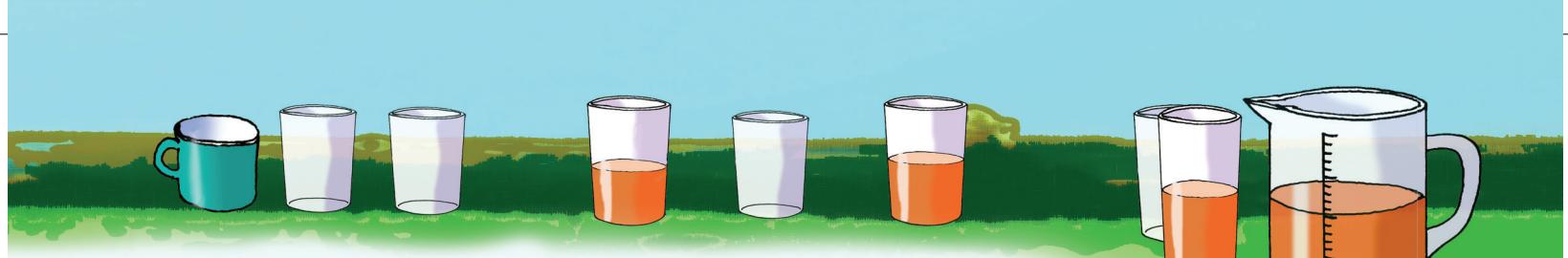
6

7

8

9

10



Rekanyani mbalo iñwe na iñwe ya mivhala ni khañare tshipida tsha phazili (khanganyisa) tshi re na nomboro yone.  
Shumisani muvhala muthihi. Ro dzula ro ni itela ya u thoma.



10 + 1 nga mutswuku



10 + 3 nga pinki



10 + 5 nga wa lutombo



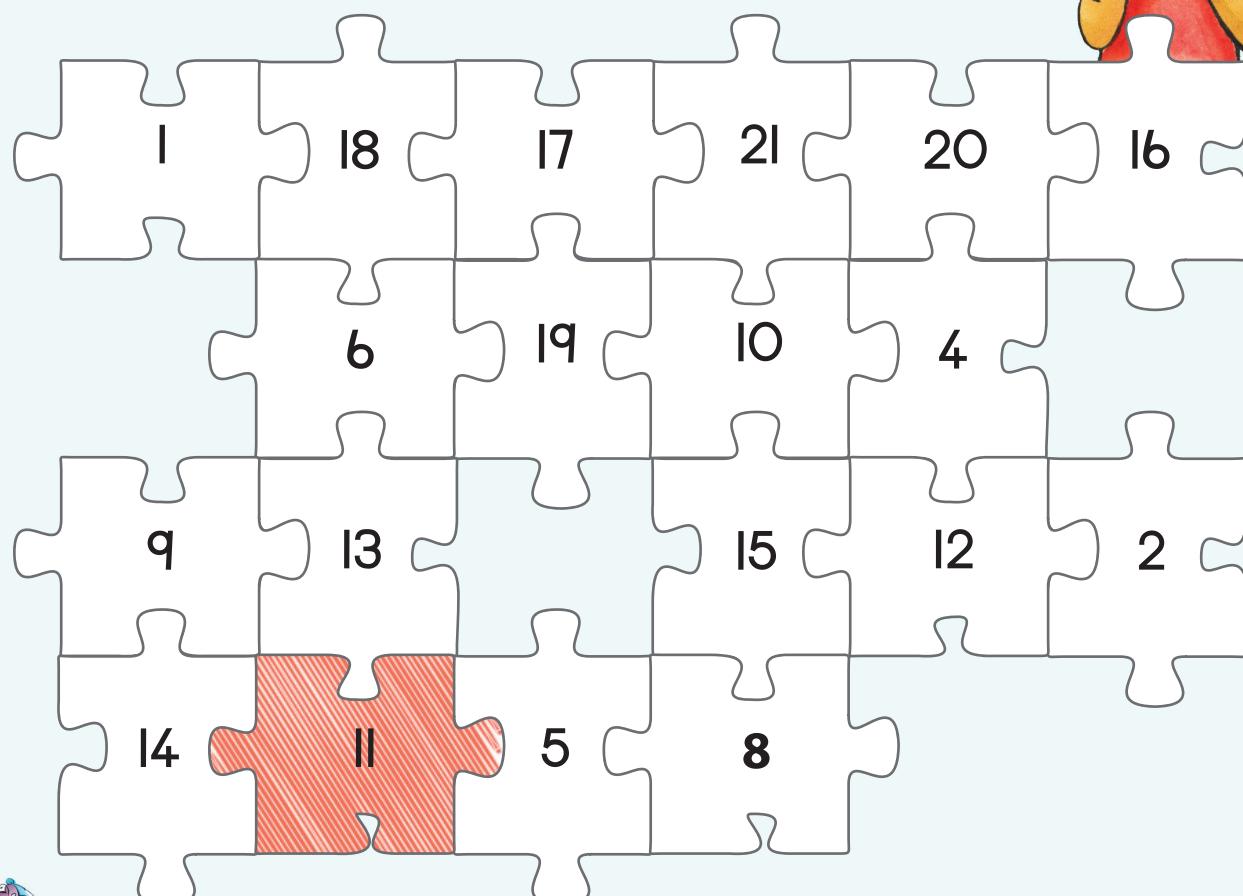
10 + 4 nga mutada



10 + 0 nga mudala



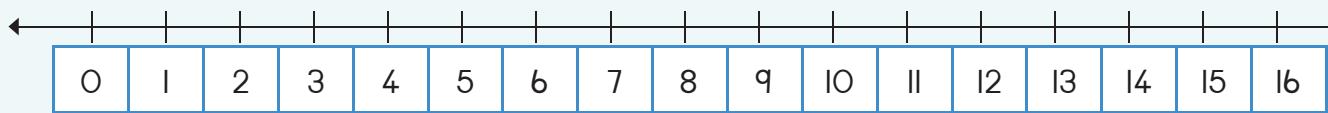
10 + 2 nga wa tshitopana



Sumbedzani fumi na iña kha mutualombalo:



Teacher: Sign:
Date:



11 12 13 14 15 16 17 18 19 20



96



Deithi:

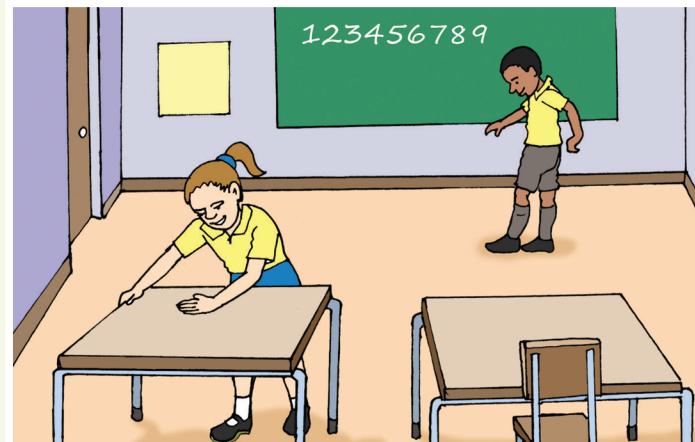
## Vhulapfu (Vhunavha)

Themo ya 3



Elani vhulapfu (vhunavha) na vhuphara ha desike kana t̄afula ni tshi shumisa vhulapfu ha tshanda tshañu. Ndi vhulapfu ha zwanda vhungana hu no linga vhulapfu ha t̄afula?

Ndi vhulapfu ha zwanda vhungana hu no linga vhuphara?



Vhulapfu vhu lingana vhulapfu ha tshanda ha \_\_\_\_.

Vhuphara vhu lingana vhulapfu ha tshanda ha \_\_\_\_.



Ndi maga mangana a no ela vhulapfu ha matungo?



Ñwalani phindulo.



Vhulapfu vhu lingana vhulapfu ha tshanda ha \_\_\_\_.



0

1

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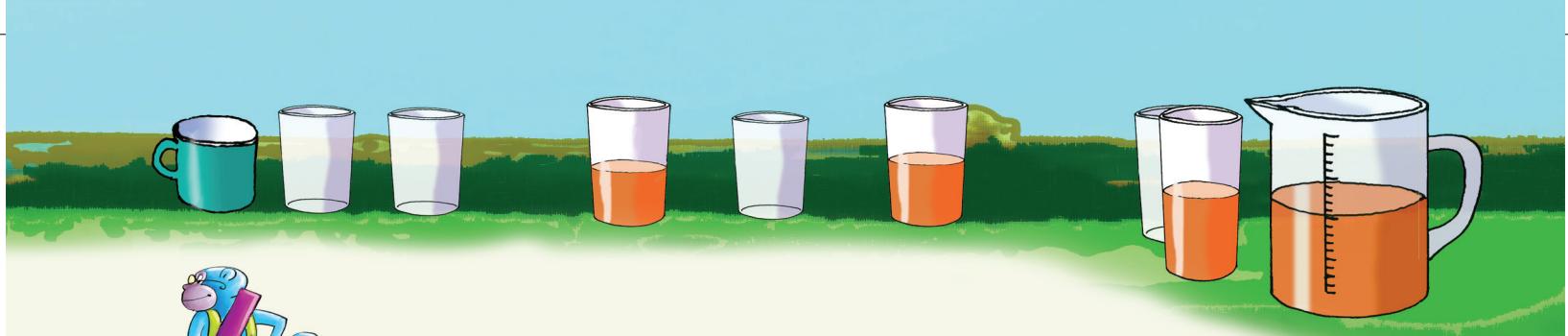
6

7

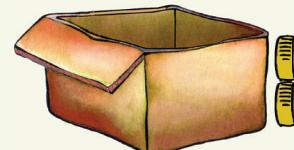
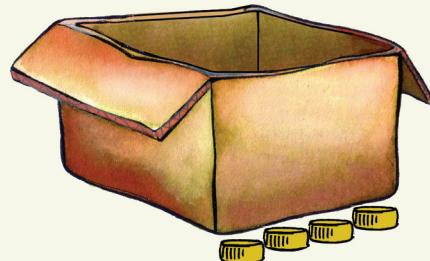
8

9

10



Vhulapfu na vhuphara ha bogisi ili ndi vhufhio?



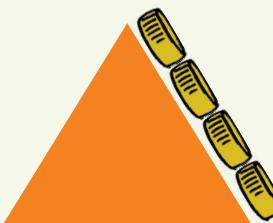
Vhulapfu ha hone vhu lingana vhulapfu  
ha zwithivho zwa babodelo zwa \_\_\_\_\_.  
  
\_\_\_\_\_

Vhuphara ha hone vhu lingana vhulapfu  
ha zwithivho zwa babodelo zwa \_\_\_\_\_.  
  
\_\_\_\_\_

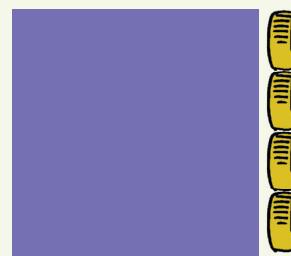


Ndi zwithivho zwingana zwi no ela vhulapfu ha matungo.







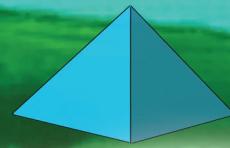
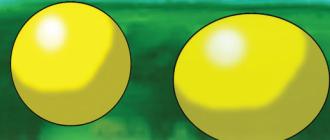
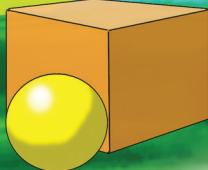




Teacher:  
Sign:  
Date:



97



## Nomboro 16

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo ni fhedzise phetheni.

7

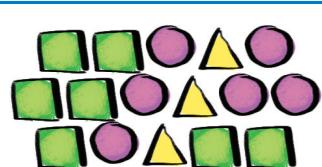
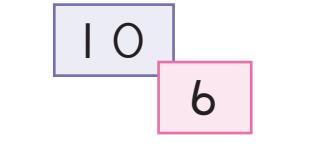
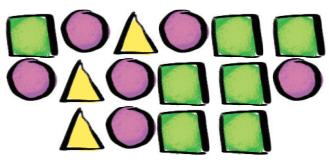
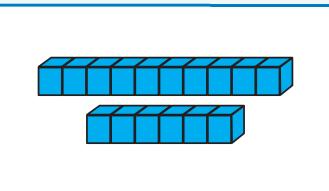
sumbe



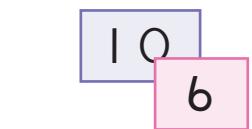
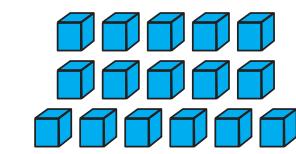
Livhanyani zwifanyiso.



Tovhedzelani nomboro.



16

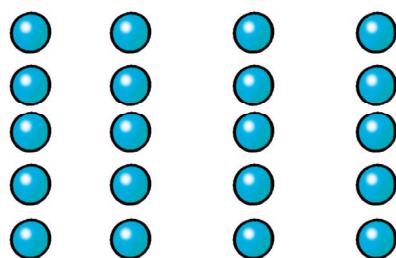


16 16 16 16

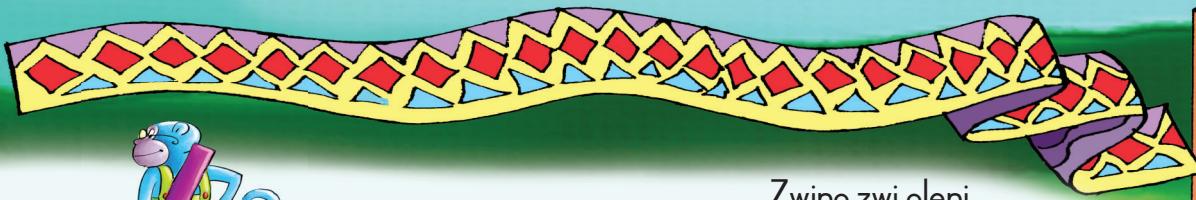
fumirathi

16 16 16 16

fumirathi

Tangedzelani mimbete  
ya 16 fhedzi.

Ho sala vhungana? \_\_\_\_\_



Olani zwithu zwa 16.

Zwino zwi oleni  
nga ndila iñwevhō.



Nwalani nomboro i no  
khou ṭahela.

2	3	4
19		21
17		19



Fhedzisani thebulu. Rou iñwe na iñwe i na  
tshifanyiso, nomboro na ipfi lo imelaho nomboro iyo.

	16	
		fumirathi



Ndi nomboro ifhio i re ṭhukhu  
kha 16 nga thihi? \_\_\_\_\_

Ndi nomboro ifhio i re khulwane  
kha 16 nga thihi? \_\_\_\_\_



Ndi nomboro ifhio i re ṭhukhu kha fumirathi nga thihi?

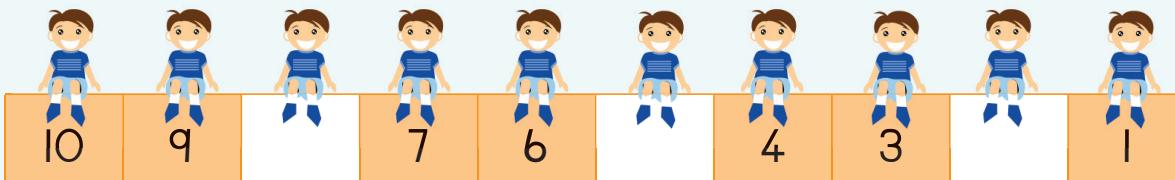
Ndi nomboro ifhio i re ṭhukhu kha fumirathi nga mbili?

Ndi nomboro ifhio i re khulwane kha fumirathi nga thihi?

Ndi nomboro ifhio i re khulwane kha fumirathi nga mbili?



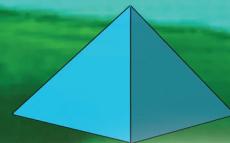
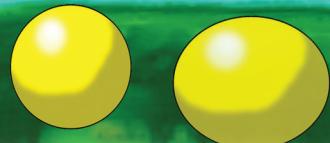
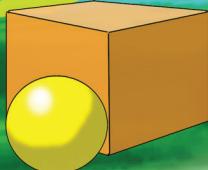
Nwalani nomboro dzi no khou ṭahela.



11 12 13 14 15 16 17 18 19 20



98



Themo ya 4

## Nomboro 17

Mvusuludzo:

Itani ndowendowe ya u nwalà dzinambalo ni fhedzise phetheni.

8

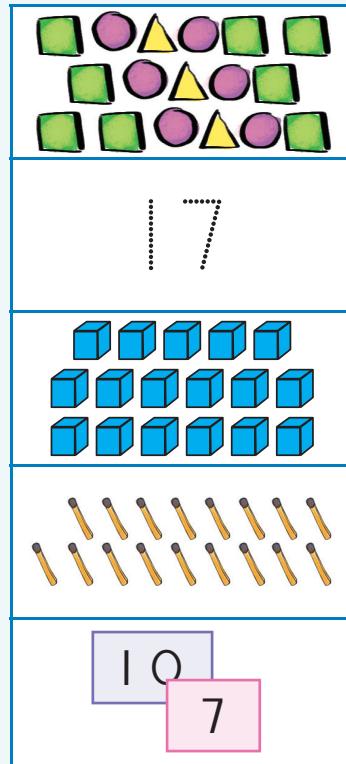
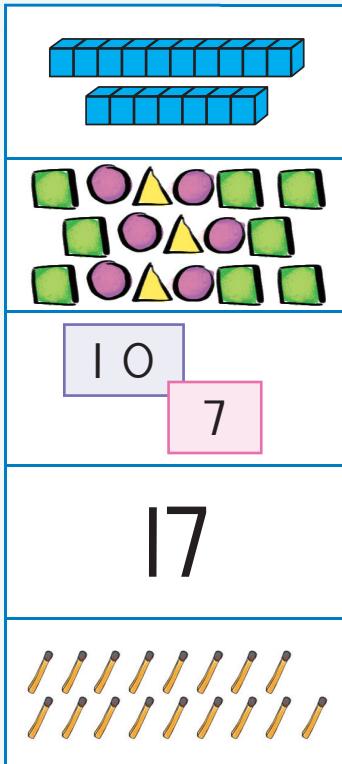
malo



Livhanyani zwifanyiso.



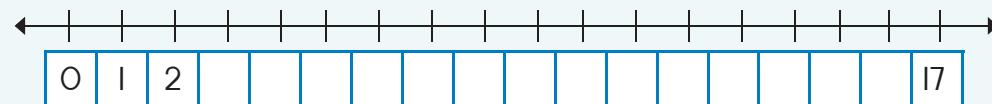
Tovhedzelani nomboro.



17 17 17 17  
fumisumbé  
17 17 17 17  
fumisumbé



Fhedzisani mutualombalo.



68

0

1

2

3

4

5

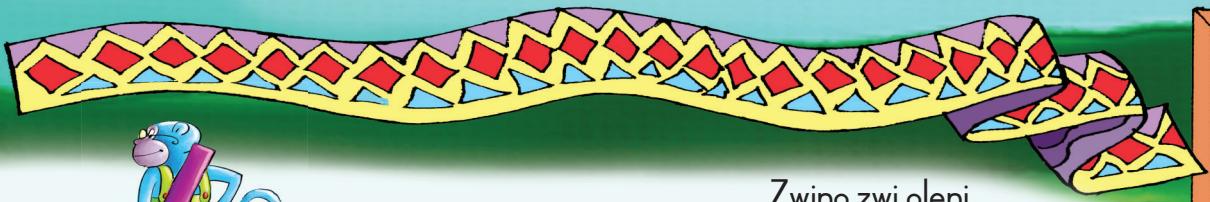
6

7

8

9

10



Olani zwithu zwa 17.

Zwino zwi oleni  
nga ndila iñwevhō.



Ndi nomboro ifhio  
i no tevhela?

16	17	
24	25	
17	18	



Fhedzisani thebulu.  
Rou iñwe na iñwe  
i na tshifanyiso,  
nomboro na ipfi lo  
imelaho nomboro  
iyo.

 	17	
	 	fumisumbe



Ndi nomboro ifhio i re ṭhukhu kha fumisumbe nga thihi?

Ndi nomboro ifhio i re ṭhukhu kha fumisumbe nga mbili?

Ndi nomboro ifhio i re khulwane kha fumisumbe nga thihi?

Ndi nomboro ifhio i re khulwane kha fumisumbe nga mbili?



Ñwalani nomboro dzi no  
khou ṭahela.

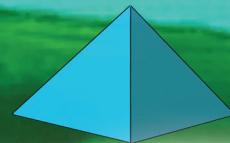
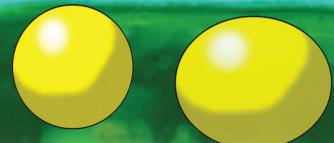
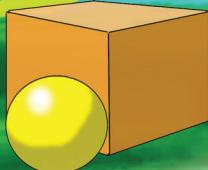
Ñwalani nomboro dzi no  
khou ṭahela.

	2		4		6		8		10
	12		14		16		18		20

11 12 13 14 15 16 17 18 19 20



**qq**



Themo ya 4

## Nomboro 18

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo ni fhedzise phetheni.

q

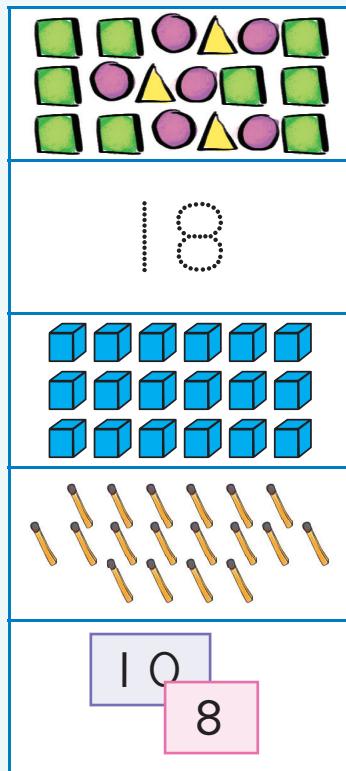
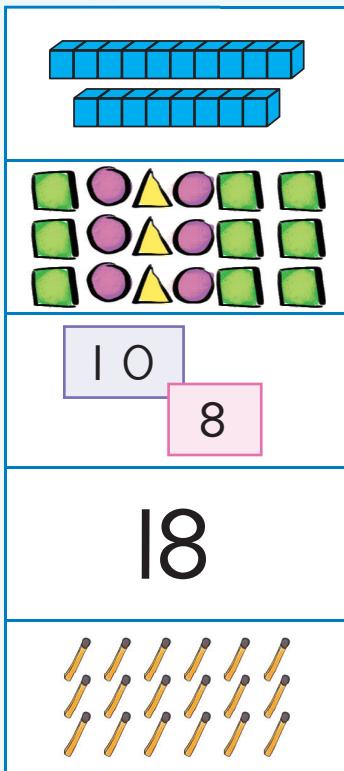
tdhe



Livhanyani zwifanyiso.



Tovhedzelani nomboro.



18 18 18 18

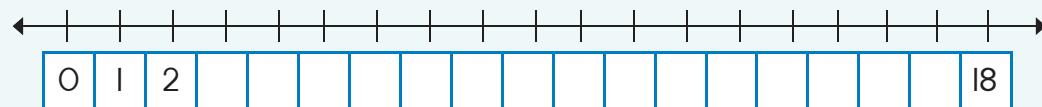
fumimalo

18 18 18 18

fumimalo



Fhedzisani mutualombalo.



70

0

1

2

3

4

5

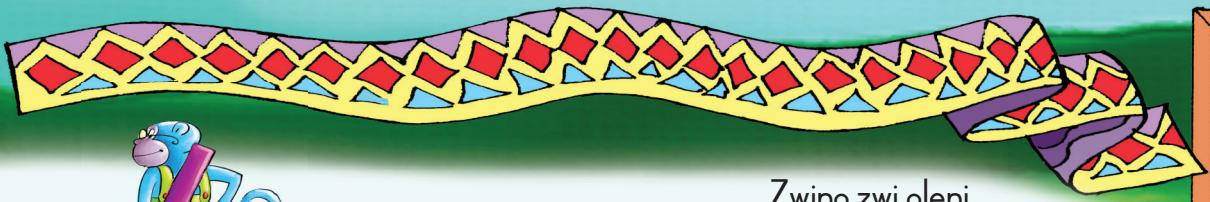
6

7

8

9

10



Olani zwithu zwa 18.

Zwino zwi oleni  
nga ndila iñwevhō.



Ndi nomboro ifhio i no  
tevhela?

8	q	
33	34	
0	I	



Fhedzisani thebulu.  
Rou iñwe na iñwe  
i na tshifanyiso,  
nomboro na ipfi lo  
imelaho nomboro  
iyo.

	18	
		fumimalo



Ndi nomboro ifhio i re ḫukhu kha 18 nga thihi?

Ndi nomboro ifhio i re ḫukhu kha 18 nga mbili?

Ndi nomboro ifhio i re khulwane kha 18 nga thihi?

Ndi nomboro ifhio i re khulwane kha 18 nga mbili?



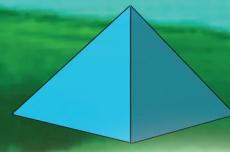
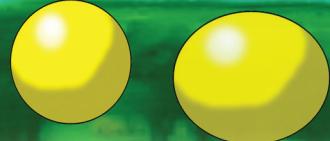
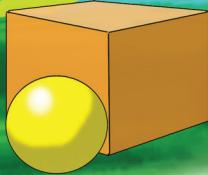
Nwalani nomboro i no khou ṭahela.

I	2		4	5	6	7		9	10
II		I3	I4	I5		I7	I8		20

II I2 I3 I4 I5 I6 I7 I8 I9 20



100



Themo ya 4

## Nomboro 19

Mvusuludzo:

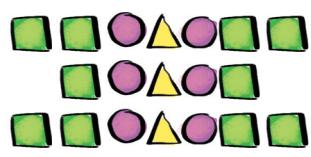
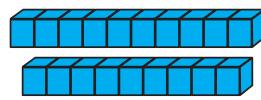
Itani ndowendowe ya u r̄wala dzinambalo ni fhedzise phetheni.

10

fumi



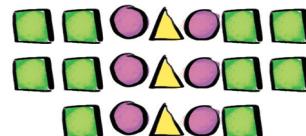
Livhanyani zwifanyiso.



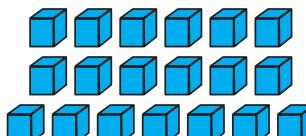
10

9

19



19



10  
9



Tovhedzelani nomboro.

19 19 19 19

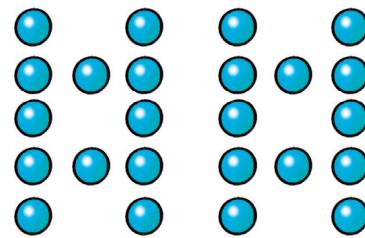
fumi $\ddot{a}$ he

19 19 19 19

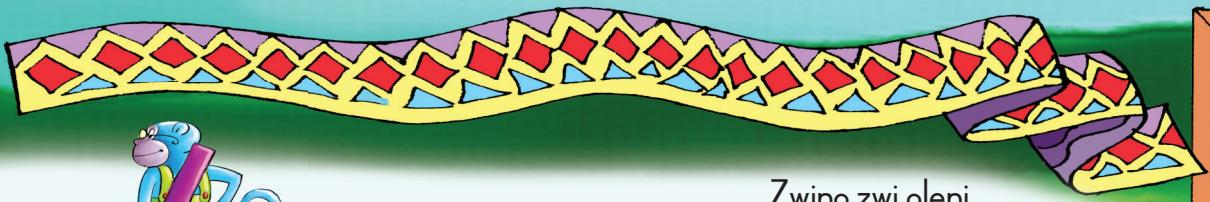
fumi $\ddot{a}$ he



Tangedzelani vhulungu ha 19 fhedzi.



Ho sala vhungana? \_\_\_\_\_



Olani zwithu zwa 19.

Zwino zwi oleni  
nga ndila iñwevhō.



Ndi nomboro ifhio i  
no da vhukati?

14		16
35		37
8		10



Fhedzisani thebulu. Rou iñwe na iñwe i na tshifanyiso, nomboro na ipfi lo  
imelaho nomboro iyo.

	19	
		fumiñahē



Ndi nomboro ifhio i re ñukhu kha 19 nga thihi?

Ndi nomboro ifhio i re ñukhu kha 19 nga mbili?

Ndi nomboro ifhio i re khulwane kha 19 nga thihi?

Ndi nomboro ifhio i re khulwane kha 19 nga mbili?



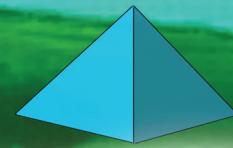
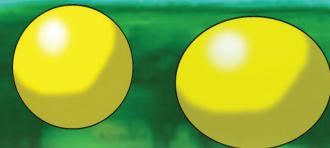
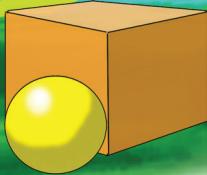
Nwalani nomboro i no khou ñahela.

Líñwe dzina ñadzo ndi  
nomboro dza ivini.

I		3		5		7		9	
II		13		15		17		19	



101

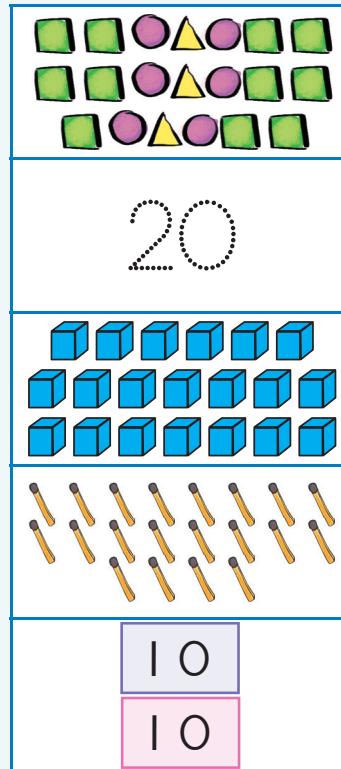
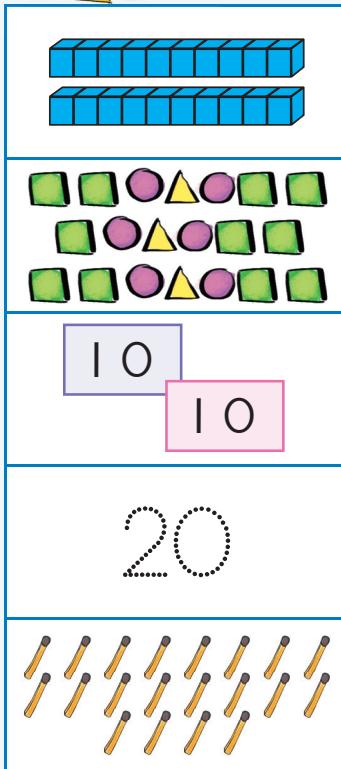


Themo ya 4

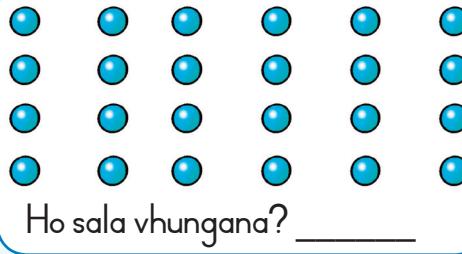
## Nomboro 20



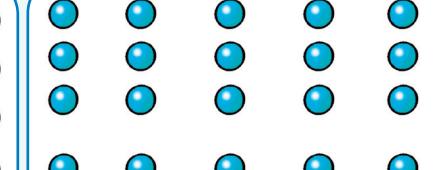
Livhanyani zwifanyiso.



Tangedzelani vhulungu ha 20 fhedzi.



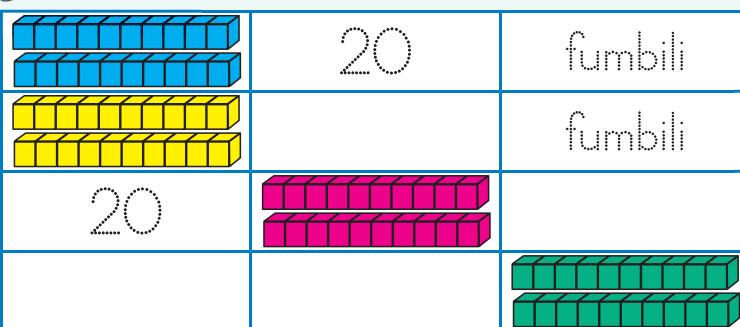
Ho sala vhungana? \_\_\_\_\_



Ho sala vhungana? \_\_\_\_\_



Fhedzisani thebulu. Rou (muduba) inwe na inwe i na tshifanyiso, nomboro na ipfi lo imelaho nomboro iyo.



Ndi nomboro ifhio i re thukhu kha 20 nga thihi? \_\_\_\_\_

Ndi nomboro ifhio i re khulwane kha 20 nga thihi? \_\_\_\_\_



0

1

2

3

4

5

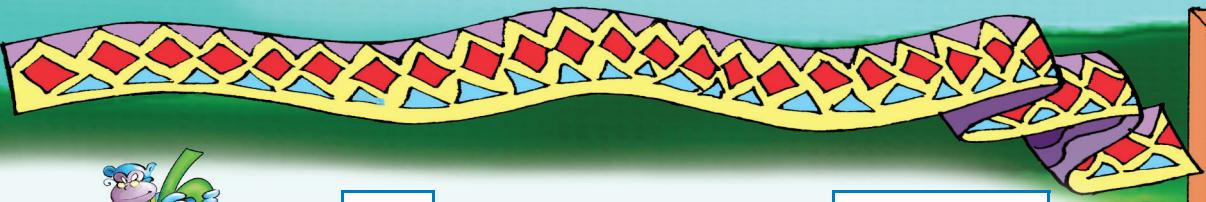
6

7

8

9

10



Tumani  
nomboro na  
ipfi.

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14



Nwalani nomboro i no khou  
tahela.

Rangela		Tevhela
16	17	
	12	
	14	
	9	10
	6	

11 12 13 14 15 16 17 18 19 20

	ina
	sumbe
	tahe
	raru
	fumithihi
	fumimbili
	thihi
	mbili
	malo
9	zero
10	thanu
11	rathi
12	fumiraru
13	fumi
14	fumiina



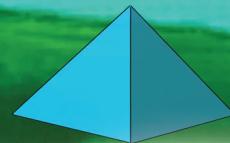
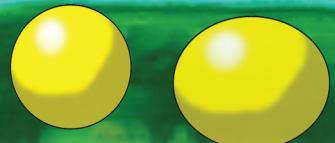
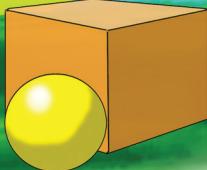
Shumisani maipfi a thukhu na  
khulwane ni tshi fhedzisa hezwi:

35 ndi \_\_\_\_\_ kha 38

79 ndi \_\_\_\_\_ kha 65



102



Themba ya 4



Tangedzelani nomboro i re khulwane tshibulokoni tshirinwe na tshirinwe.

3	5	15	11	20	8
8	7	12	6	17	18

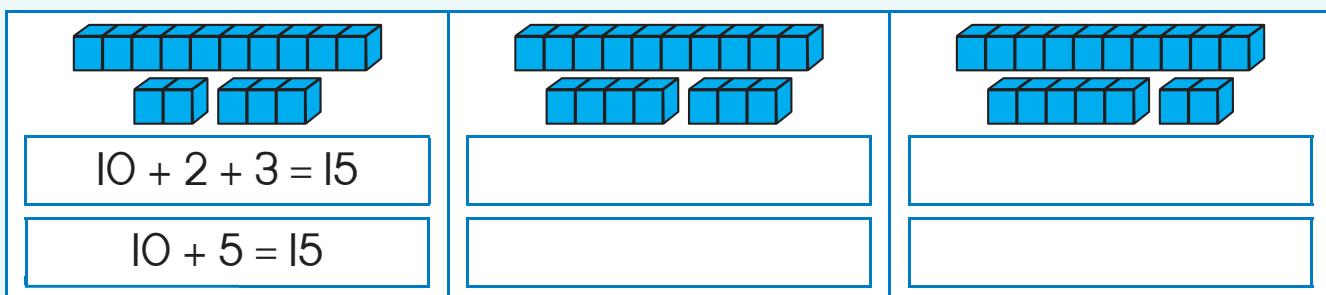


Tanganyani zwi tevhelaho.  
Thomani nga u dzhenisa  
nomboro khulwane u  
thoma.

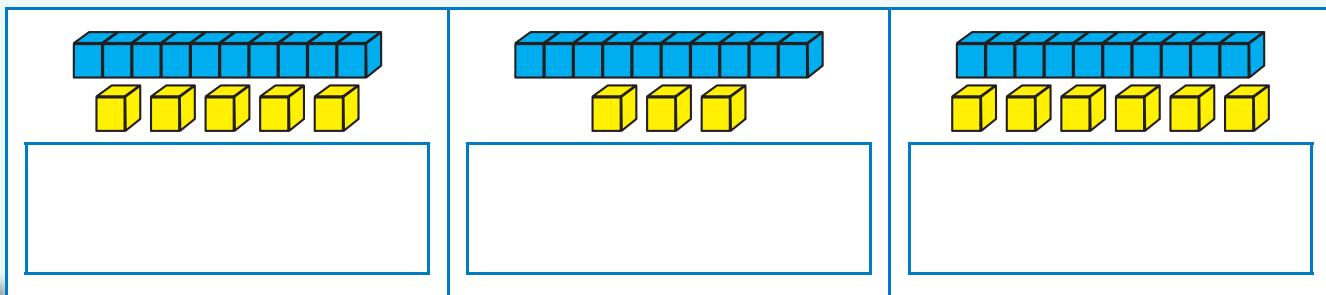
$1 + 1 + 5 =$	$5 + 1 + 1 =$
$6 + 2 + 10 =$	
$3 + 4 + 2 =$	
$2 + 6 + 3 =$	
$1 + 10 + 2 =$	



Tanganyani zwibuloko.



Nwalani fhungombalo la zwi tevhelaho.



76

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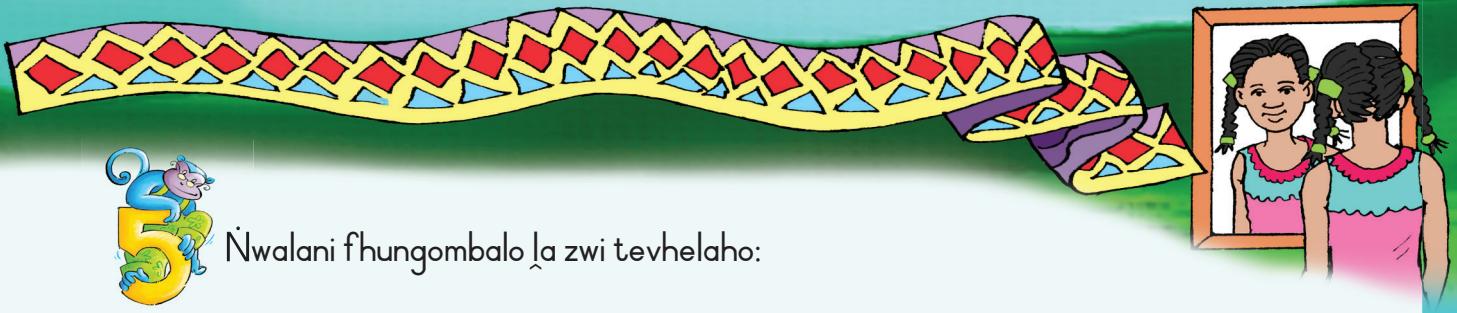
6

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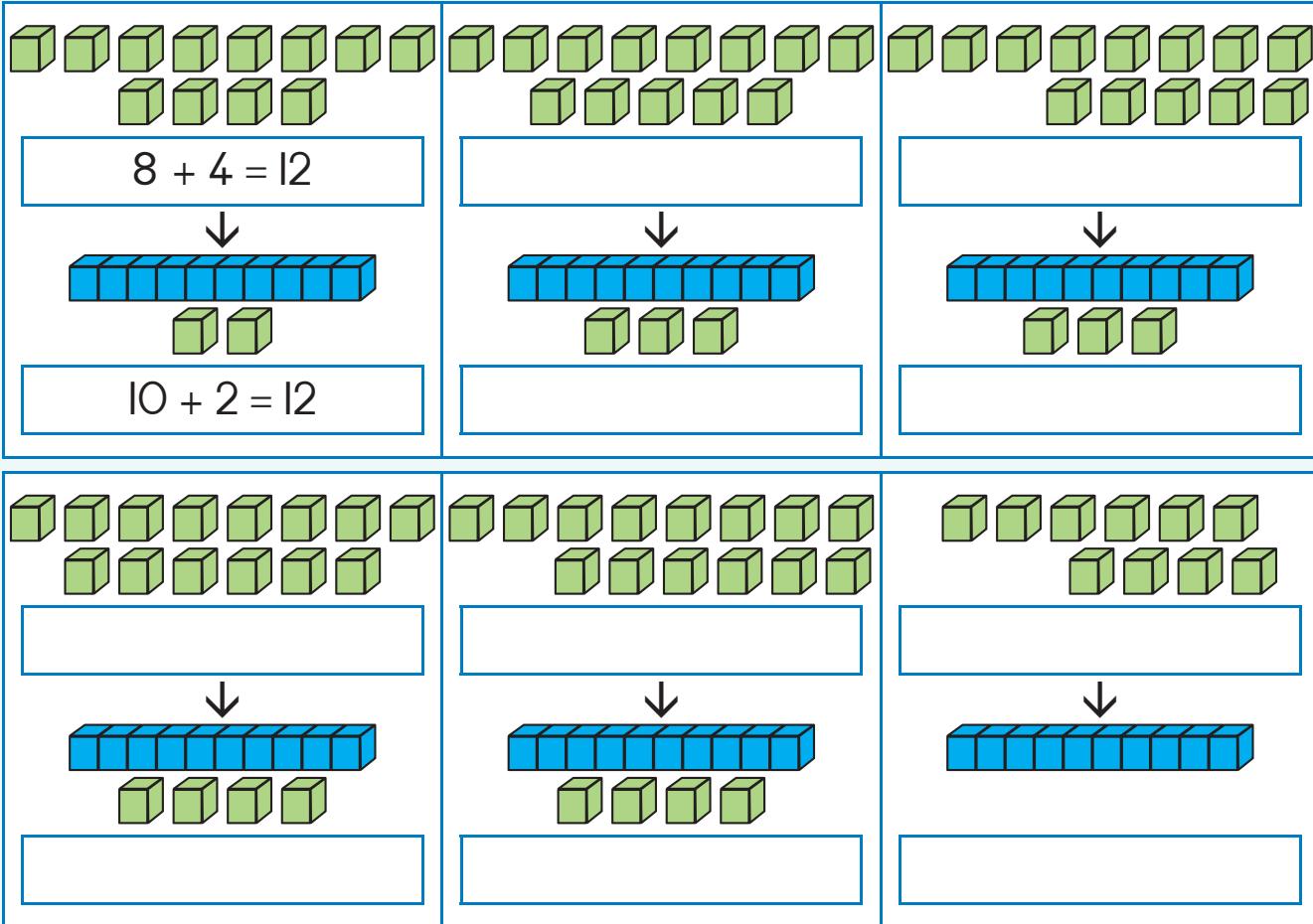
9

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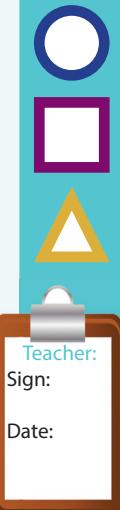
5

Nwalani fhungombalo la zwi tehelaho:

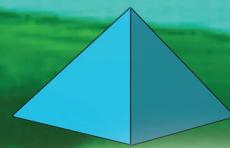
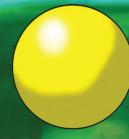
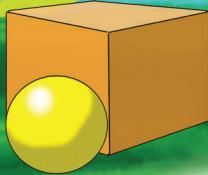


Nwalani nomboro dzi no khou t̄ahela.

	+	14	=	17
9	+		=	20
12	+	8	=	
15	+		=	20
	+	6	=	13
14	+	3	=	0



103



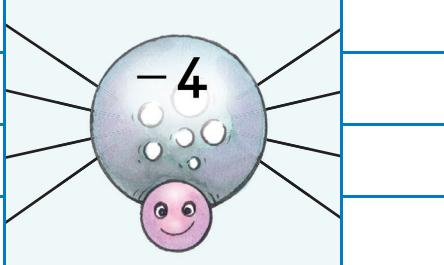
Themo ya 4

## Mutuso

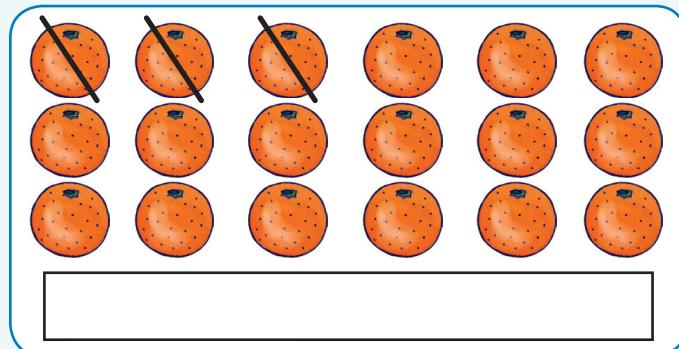


Rekanyani.

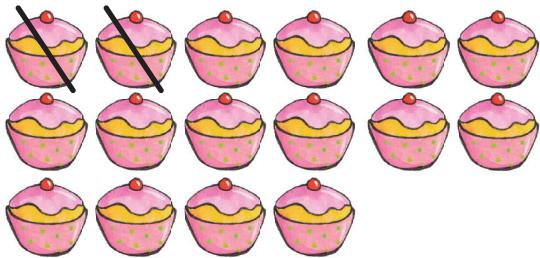
17
19
14
12



Nwalani fhungombalo.

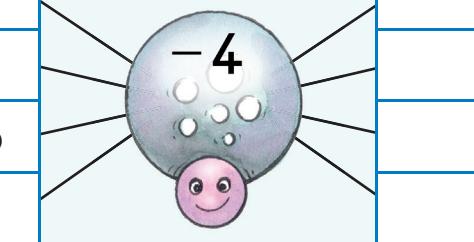


Nwalani fhungombalo.

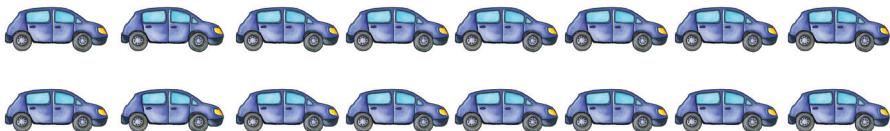


Rekanyani.

18
7
15
9



Fhedzisani mbalo ni tshi shumisa nyolo (zwifanyiso).



$$16 - \boxed{\quad} = \boxed{\quad}$$



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



0

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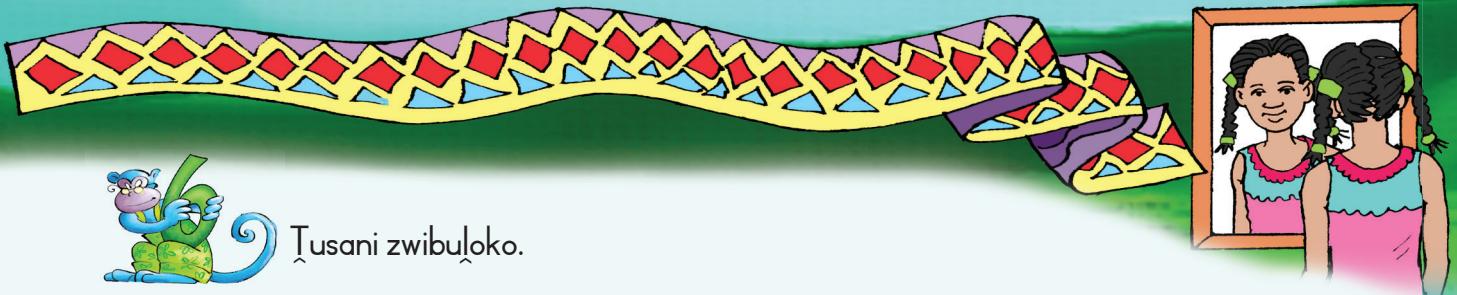
6

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Tusani zwibuloko.



$(10 + 3) - 2 =$		
$13 - 2 =$		



Rekanyani zwi tevhelaho.

$11 + 7 = \boxed{\phantom{0}}$	$11 + 7 = \boxed{\phantom{0}}$
$11 + 4 + \boxed{\phantom{0}} = \boxed{\phantom{0}}$	$11 + 5 + \boxed{\phantom{0}} = \boxed{\phantom{0}}$
$19 - 7 = \boxed{\phantom{0}}$	$17 - 9 = \boxed{\phantom{0}}$
$19 - (5 + \boxed{\phantom{0}}) = \boxed{\phantom{0}}$	$17 - (7 + \boxed{\phantom{0}}) = \boxed{\phantom{0}}$



Rekanyani zwi tevhelaho.

Nyingakavhili ya 5 ndi <input type="text"/>	Nyingakavhili ya 3 ndi <input type="text"/>	Nyingakavhili ya 4 ndi <input type="text"/>
Nyingakavhili ya 7 ndi <input type="text"/>	Nyingakavhili ya 2 ndi <input type="text"/>	Nyingakavhili ya 8 ndi <input type="text"/>
Nyingakavhili ya 10 ndi <input type="text"/>	Nyingakavhili ya 9 ndi <input type="text"/>	Nyingakavhili ya 1 ndi <input type="text"/>

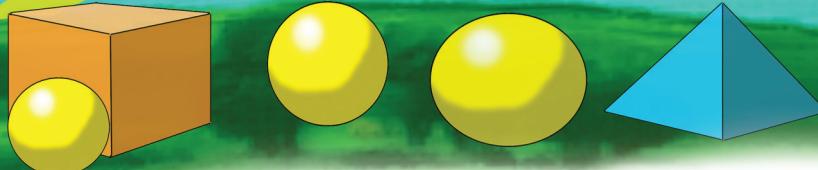


Findulani zwi tevhelaho:

$9 + 9 - 1 =$ <input type="text"/> kana $Ho ingwa kavhili 9 - 1 =$ <input type="text"/>
$\quad\quad\quad$ <input type="text"/> kana $Ho ingwa kavhili 5 - 1 =$ <input type="text"/>
$4 + 4 - 1 =$ <input type="text"/> kana



104



Themo ya 4



Vhalani uri ho dzula zwimange zwingana ḫuvhani.  
Vhusiku zwiñwe zwazwo zwi edela nga murahu ha luvhondo.  
Wanani tshivhalo tsha zwimange zwi re murahu ha luvhondo ni tshi ḫwale.

3 +  =  8

4 +  =



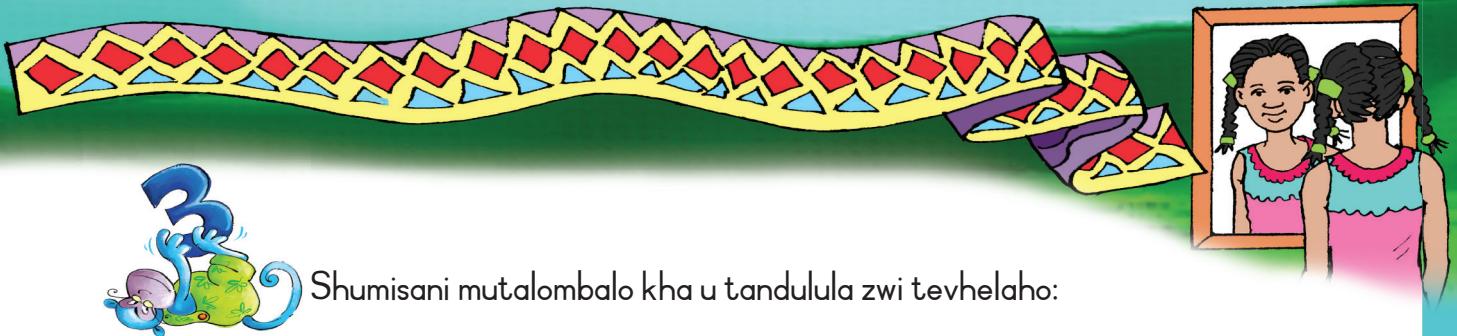
Tandululani zwi tevhelaho.  
Ni nga kha ḫi ita nyolo uri i ni thuse.



Lerato o vha e na maswiri a 4. Peter a mu fha maswiri a 13.  
Una maswiri mangana zwino?

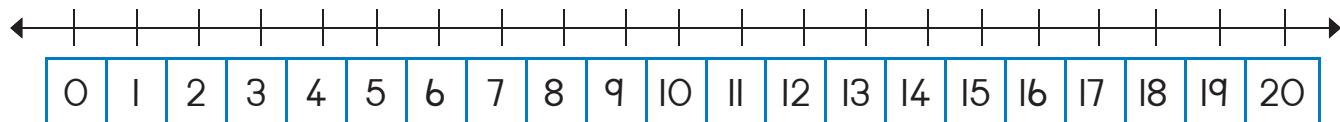
Mandla u na khirayoni dza 5. Anne u na khirayoni dza 8.  
Ndi nnyi a re na kharayoni ḫukhu?



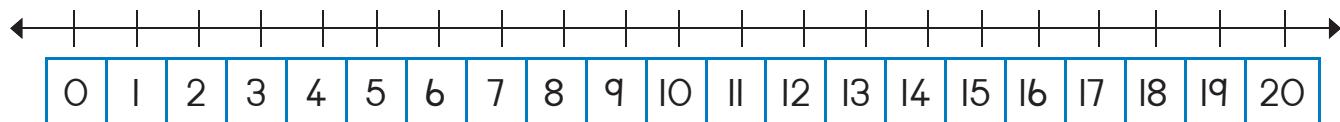


Shumisani mutualombalo kha u tandulula zwi tevhelaho:

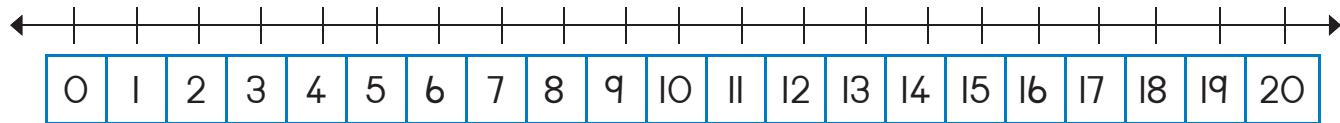
Thandi u na mimavhulu midala ya 6 na ya lutombo 9.  
U na mimavhulu mingana?



Lerato u na mimavhulu ya 16. Ya malo ndi midala ngeno miñwe yoþhe i ya lutombo. Lerato u na mimavhulu mingana ya lutombo?



Thandi u na miomva ya 19. Themba u na miomva ya 10.  
Thandi u na miomva minzhi nga mingana u fhira Themba?



Ndi nomboro dzifhio dzi no wanala vhukati ha 25 na 30?

Tangedzelani nomboro i re khulwane kha 76 nga 1.

74	75	76	77	78
----	----	----	----	----

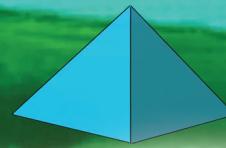
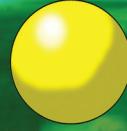
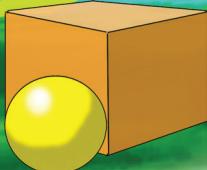
Tangedzelani nomboro i re khulwane kha 76 nga 2.

74	75	76	77	78
----	----	----	----	----

11 12 13 14 15 16 17 18 19 20



105



Themo ya 4

## Nomboro zwadzo



Ndi iyi we a dzhia vhuimo ha u thoma mbambeni?  
Nwalani vhuimo nga fhasi havho.

Sipho	Lerato	John	Peter	Ann
<input type="text"/>	2	3	<input type="text"/>	<input type="text"/>



Vha oleni vho  
ima nt̄ha ha  
phodiamu.

Tset̄ha

Musuku

Buronzo

Ndi nnyi we a wana musuku? \_\_\_\_\_

Ndi nnyi we a wana tset̄ha? \_\_\_\_\_



Olani ndunzhedzo ya  
vhulungu nga heyji ndila:

Lulungu lwa u thoma ndi lwa lutombo.  
Lulungu lwa vhuvhili ndi lutswuku.  
Lulungu lwa vhuraru ndi ludala.  
Lulungu lwa vhuñña ndi lwa t̄ada.  
Lulungu lwa vhuñanu ndi lwa lutombo.  
Lulungu lwa vhurathi ndi lutswuku.  
Lulungu lwa vhusumbe ndi ludala.  
Lulungu lwa vhumalo ndi lwa t̄ada.  
Lulungu lwa vhuñahé ndi lwa lutombo.  
Lulungu lwa vhufumi ndi lutswuku.

Ndunzhedzo ya vhulungu hanga.



82

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Lavhelesani thevhekano ya zwivhumbeo.  
Kopololelani zwivhumbeo zwikhali zwone kha thebulu.  
Ro dzula ro ni itela ya u thoma.



### Ndi tshivhumbeo tshifhio tshi re tsha:

Vhuna		Vhusumbe	
Vhutanu		Vhutahé	
Vhuvhili		Ufhedza	
Vhuraru		Vhurathi	



Itani zwi tevhelaho:



Khalarani tshitendeledzi tsha u thoma nga muvhala mutswuku.



Khalarani tshitendeledzi tsha vhatanu nga muvhala wa tada.



Khalarani tshitendeledzi tsha vhumalo nga muvhala wa lutombo.

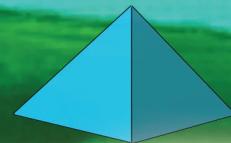
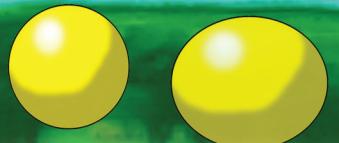
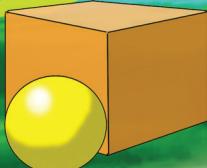


Itani mutualombalo wa 10 u swika kha 20.

Tangedzelani nomboro ya vhuraru na ya vhumalo.



106

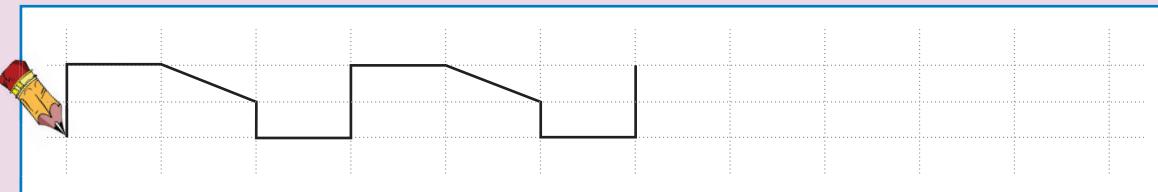


Themo ya 4

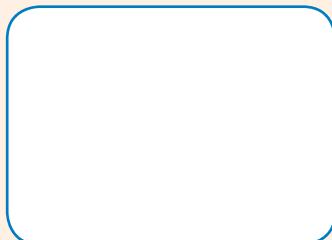
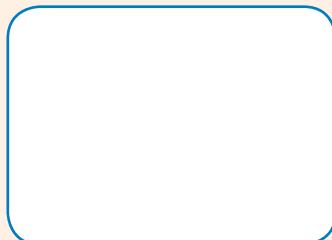
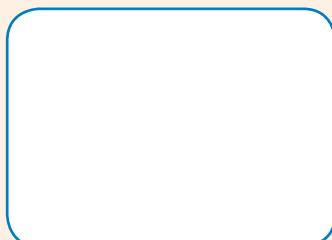
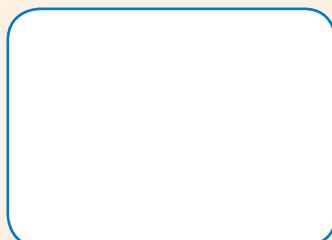
## Zwithu na zwivhumbeo

Mvusuludzo:

Mvusuludzo: Fhedzisani phetheni.



Wanani zwifanyiso zwivhili zwa bola na zwifanyiso zwivhili zwa mabogisi kha gurannda kana magazini ni zwi nambatedze afho fhasi.



Itani tshitendeledzi tsha lutombo u mona na zwithu zwothe zwine zwa swenda.

Itani tshikwea tshitswuku u mona na zwithu zwothe zwine zwa kunguluwa.



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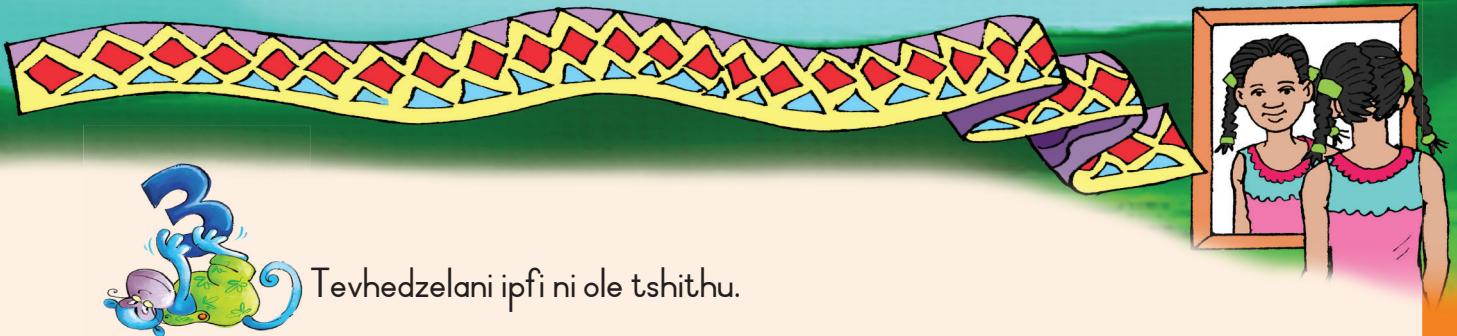
6

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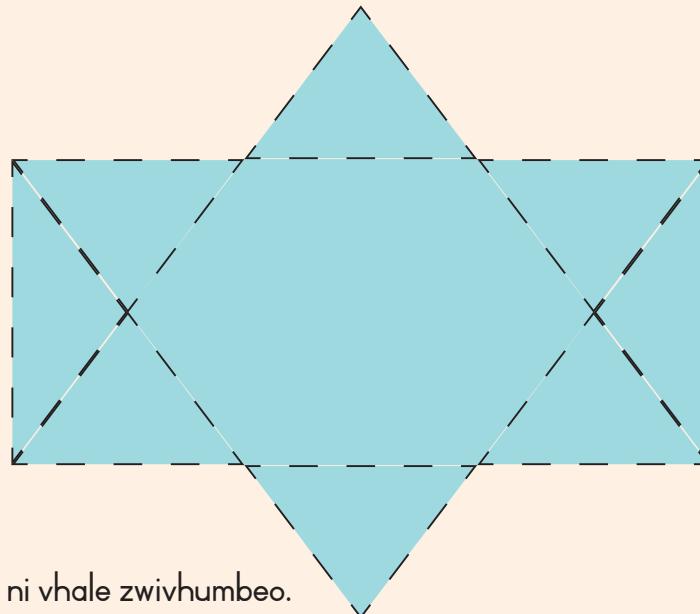
Tevhedzelani ipfi ni ole tshithu.

bogisi

bola



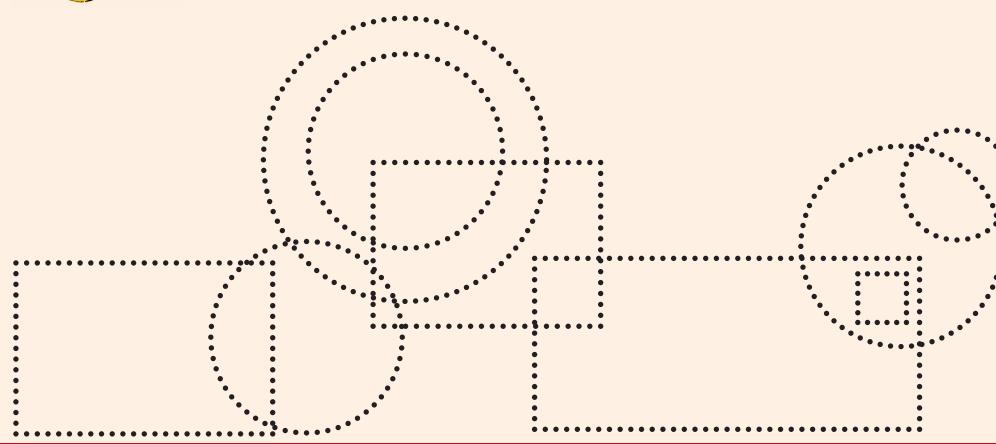
Vhalani thiraiengele dzothe ni nwale nomboro.



Phindulo:



Tevhedzelani ni vhale zwivhumbeo.

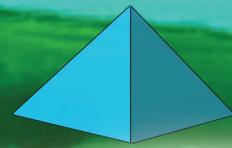
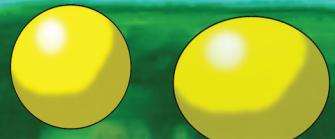
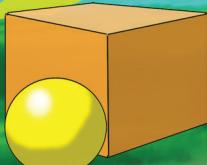


Zwitendeledzi

Zwikwea



107



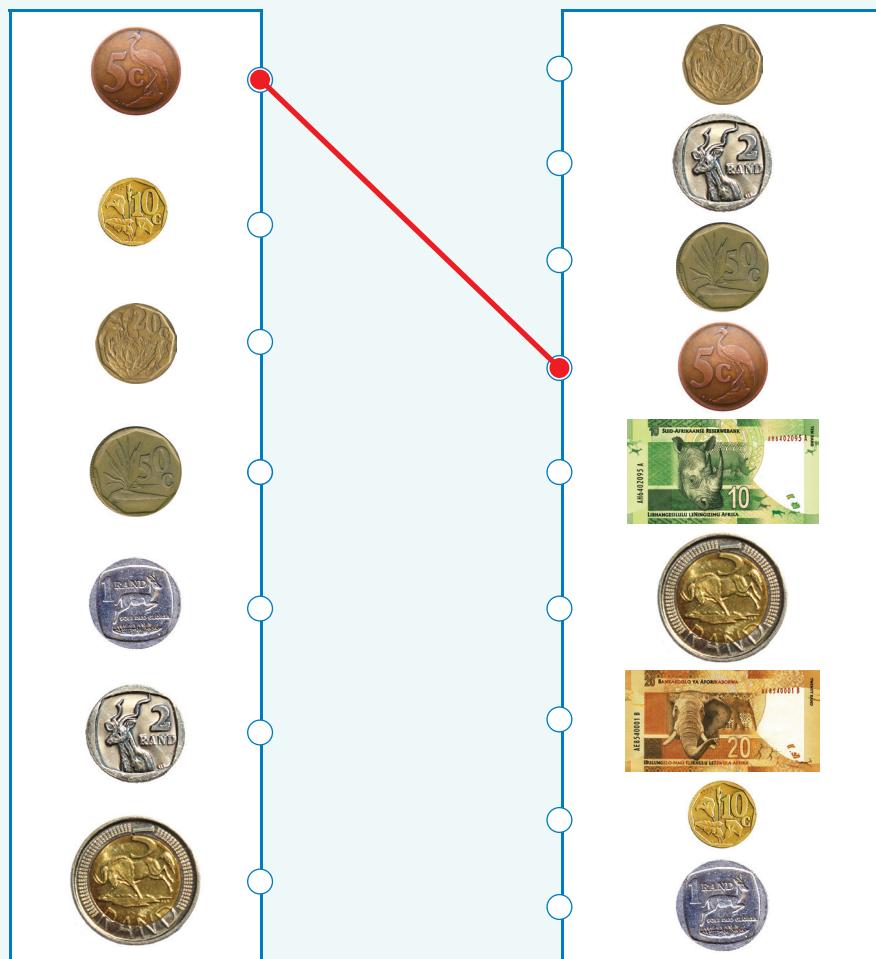
Themo ya 4



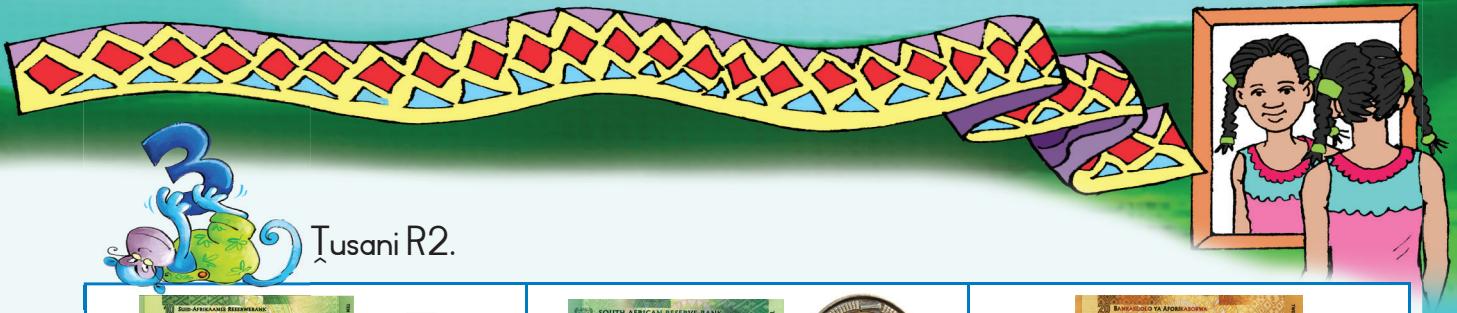
Ni nga livhanya khoini dzifhio?



Itani thiki tshibogisini tshiñwe na tshiñwe tsini na khoini na noutu (ya mabammbiri) dzine dza nga ni fha zwi tevhelaho:



RIO		<input type="checkbox"/>						
R20		<input type="checkbox"/>						
RI5		<input type="checkbox"/>						



Tusani R2.

 A16402053 A		 A16402053 A	 A16402053 A	 A16402053 A	 A16402053 A	
$RI2 - R2 = RIO$						



Tusani R5.

 A16402053 A		 A16402053 A				
$RI5 - R5 = RIO$						



Ni nga ola t̄hangano nngana dzo fhambananaho dza u ita R20?

Ro dzula ro ni itela ya u thoma.

 A16402053 A	 A16402053 A	 A16402053 A				



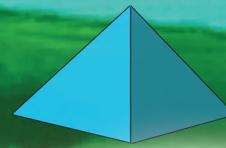
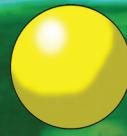
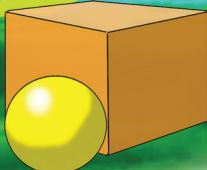
Tangedzelani khoini kha  
mutaladzi muñwe na muñwe  
ine na nga renga zwinzhi  
ngayo.



Teacher:  
Sign:  
Date:



108



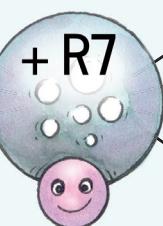
Themo ya 4

## Tshelede iñwe hafhu



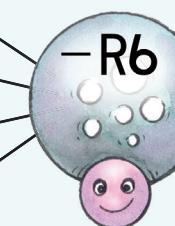
Rekanyani.

R5
R9
R7
R4



Rekanyani.

RI3
RI5
RI7
RI4



Nwalani phindulo.

RIO + RI =	
RIO + R2 =	
RIO + R3 =	
RIO + R4 =	
RIO + R5 =	



Ndi ifhio khulwane (nnzhi)?  
Tangedzelani phindulo yanu.

5c kana R5
20c kana R20
RI kana 50c
R2 kana RI
20c kana 50c



Tanganyani nomboro dzi tshi buda kana dzi tshi tsitsa ni ñwale phindulo.

R2	R4	R9	=
R7	R3	R5	=
R6	R8	RI	=
=	=	=	=



88

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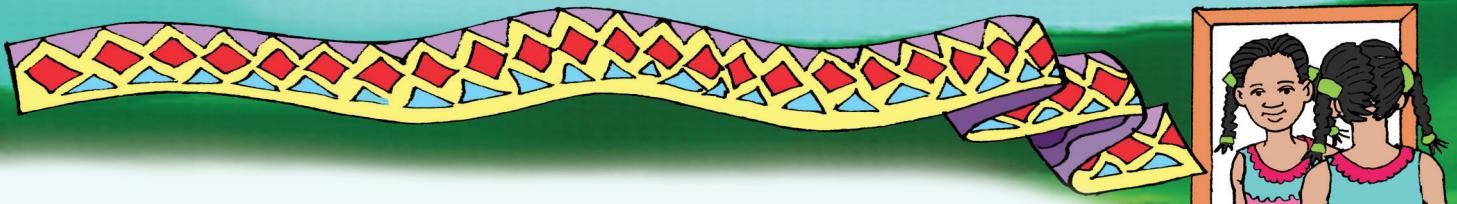
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Lavhelesani tsumbo ni  
fhedzise dzo salaho.



James o renga vhurotho nga  
R8. A badela nga noutu ya RIO (ya  
bammbiri). O wana tshintshi ya vhugai?

RI7	=	RIO	+	R7
RI6	=		+	
RI5	=		+	
RI4	=		+	
RI3	=		+	
RI2	=		+	



Mme a Busi vho renga muñadzi  
wa RI7. Vha badela nga no noutu  
mbili utu dza RIO. Vho wana  
tshintshi ya vhugai?



Duvha la mabebo la Judy lo vha  
nga Swondaha. O fhiwa R5 nga  
mukomama wawe, a fhiwa R2 nga  
khaladzi awe na RIO nga muzwala  
wawe. Vha na malegere mangana o  
tangana othe?

Mbudziso i ri mini?

---



---

Nwalani nomboro.

---

Nwalani mbalo ni i shume.

---

Mbudziso i ri mini?

---



---

Nwalani nomboro.

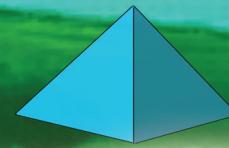
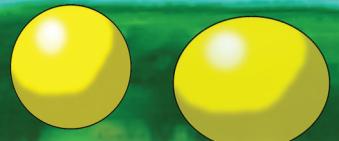
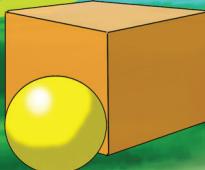
---

Nwalani mbalo ni i shume.

---



10q

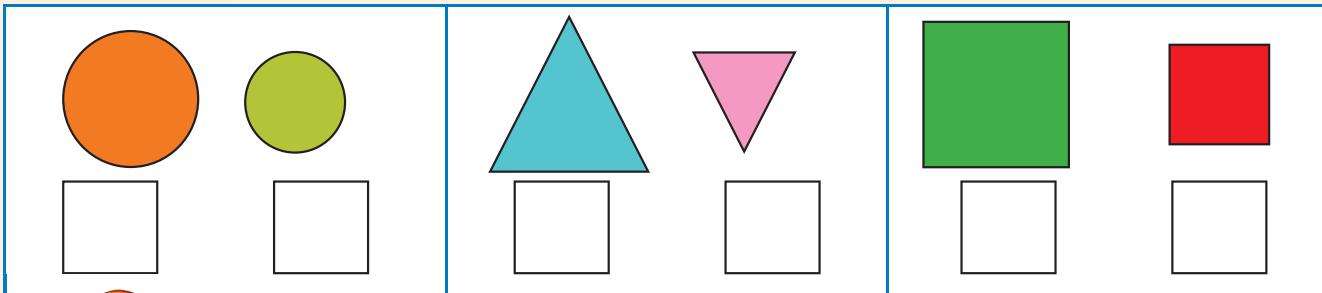


Themo ya 4

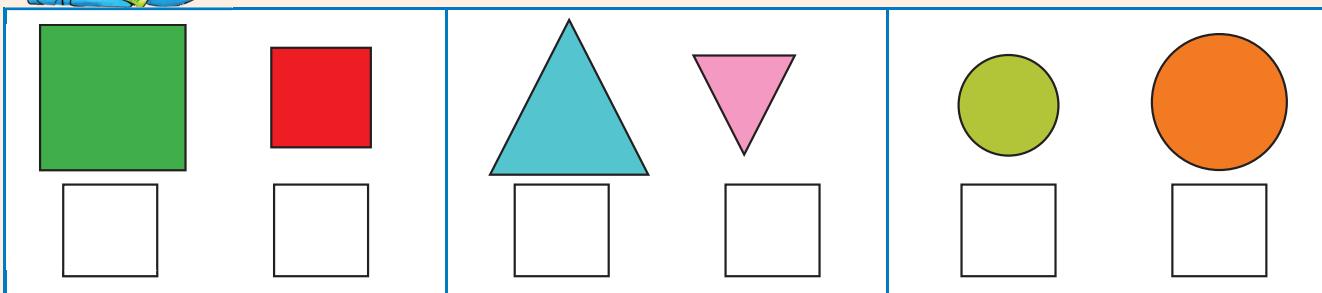
## Zwivhumbeo zwa 2-D



Itani thiki kha tshivhumbeo tshitukusa tshibulokoni tshiñwe na tshiñwe.

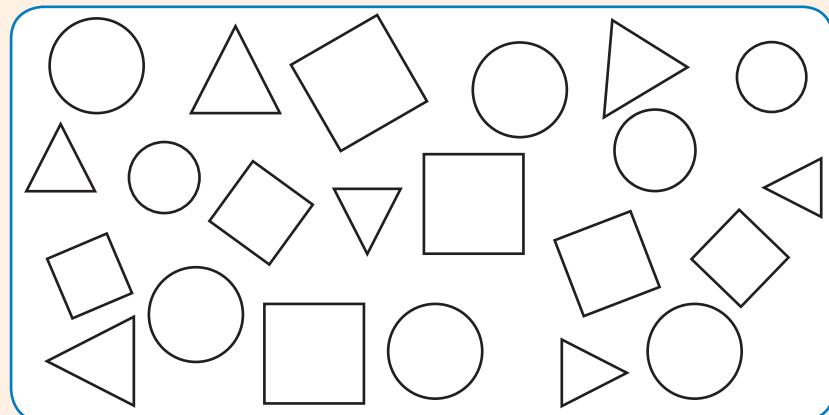


Itani thiki kha tshivhumbeo tshihulwanesa tshibulokoni tshiñwe na tshiñwe.

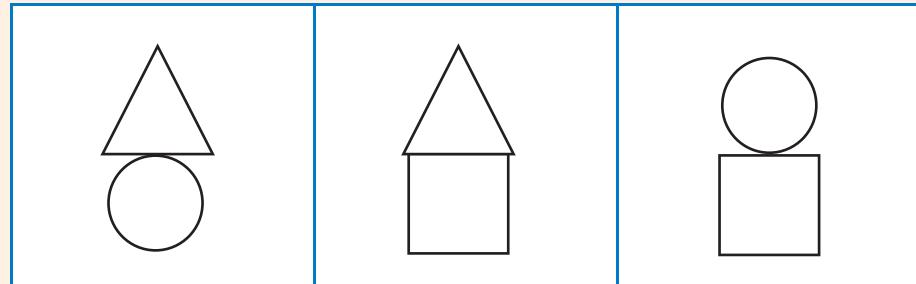


Khalarani:

- zwikwea nga muvhala wa lutombo
- thiraiengele nga muvhala mutswuku
- zwitendeledzi nga muvhala mudala



Itani tshifanyiso ni tshi shumisa zwivhumbeo. Ro thoma tshifanyiso tshiñwe na tshiñwe nga zwivhumbeo zwivhili.



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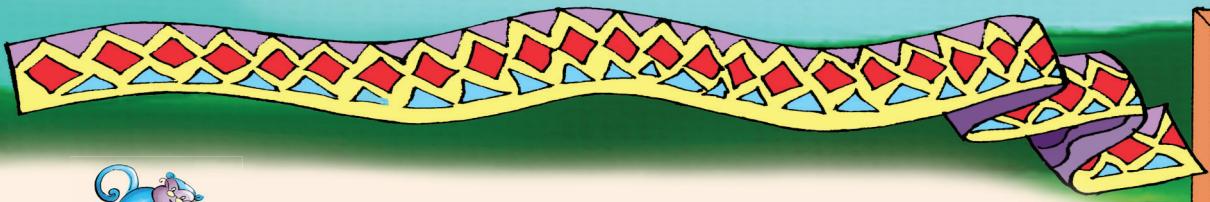
6

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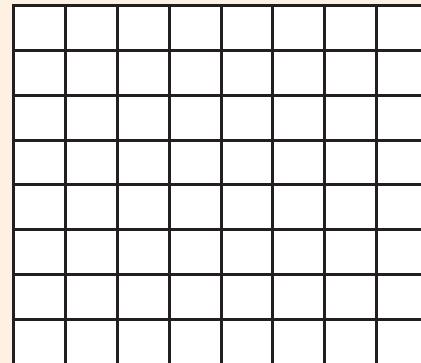
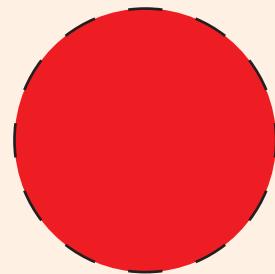
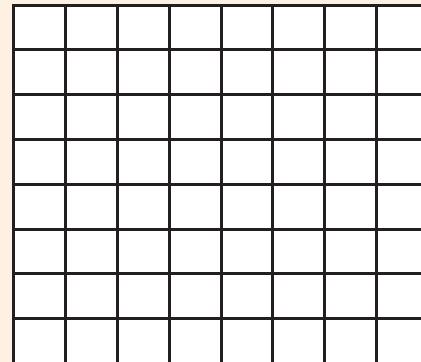
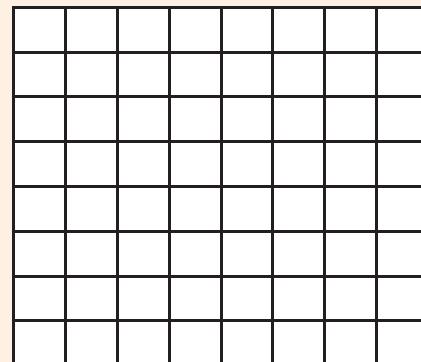
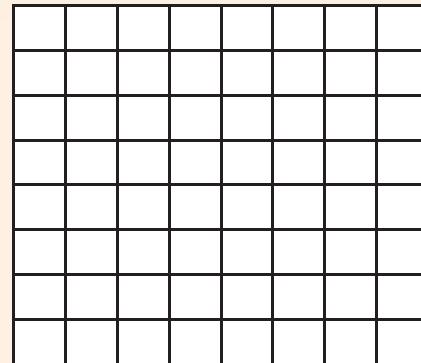
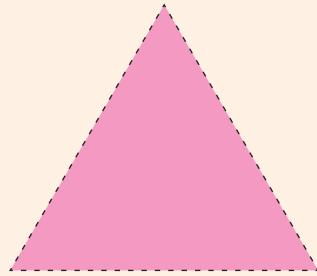
8

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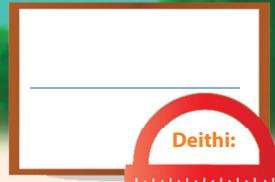
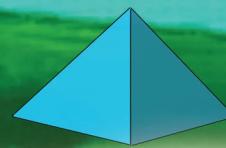
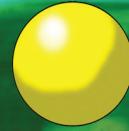
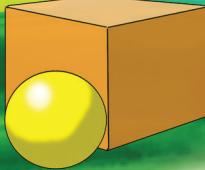
Olani zwivhumbeo kha giridi.  
Shumisani zwikwea zwi<sup>l</sup>uku uri zwi ni thuse.



Teacher:  
Sign:  
Date:



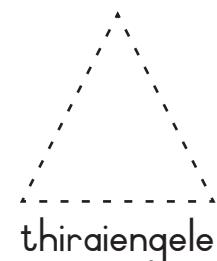
110



Themo ya 4



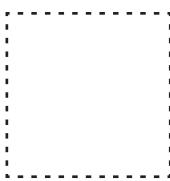
Tevhedzelani zwivhumbeo zwi tevhelaho.



thiraiengele



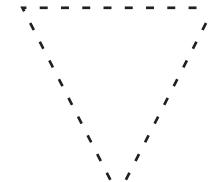
zwitendeledzi



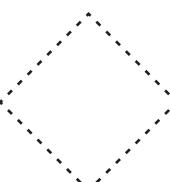
zvikwea



zwitendeledzi



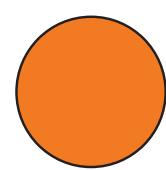
thiraiengele



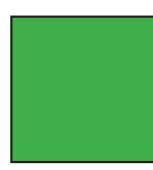
zvikwea



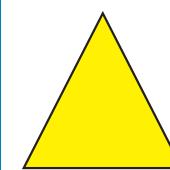
Itani thiki ni tshi sumbedza uri tshivhumbeo tshi na vhurumbutswititi kana vhurumbu ha zwipulumbu.



vhurumbu ha zwipulumbu  
vhurumbutswititi



vhurumbu ha zwipulumbu  
vhurumbutswititi



vhurumbu ha zwipulumbu  
vhurumbutswititi



Olani tshivhumbeo nga:

vhurumbutswititi

vhurumbu ha zwipulumbu



92

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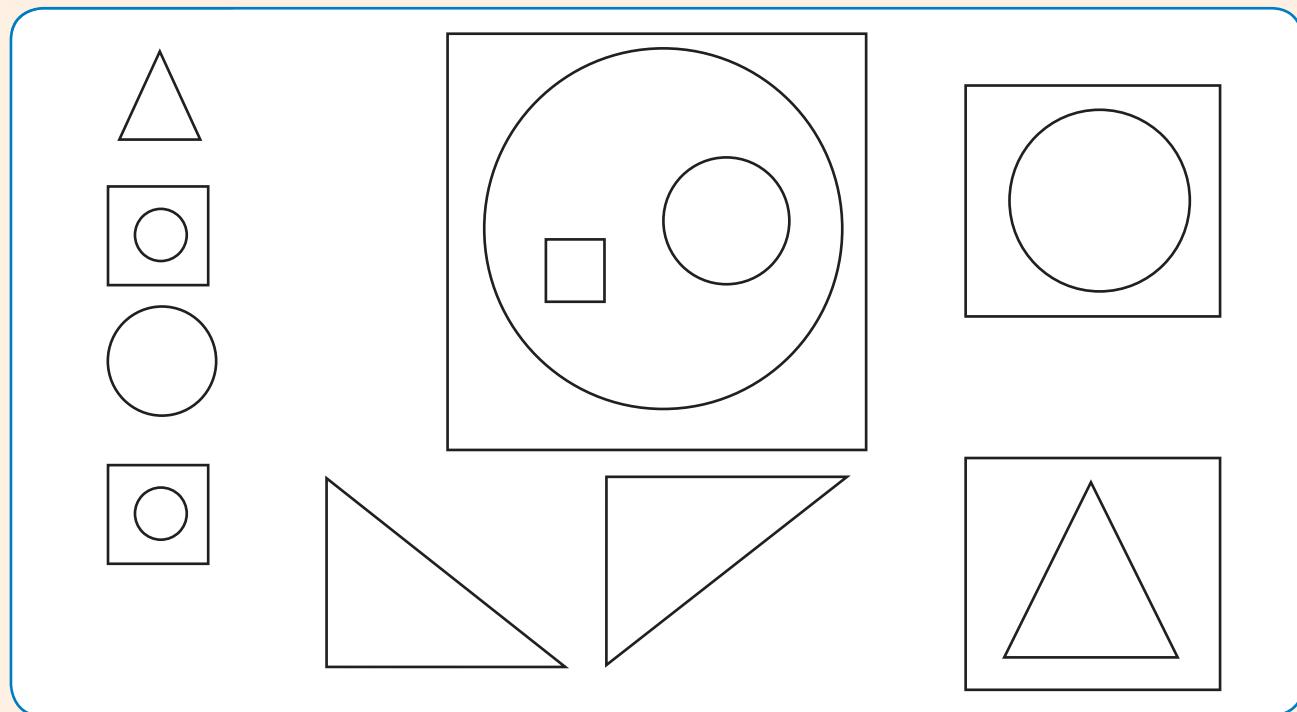
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Vhalani tshivhalo tsha zwitendeledzi, zwikwea na thiraiengele.



Zwitendeledzi

Zwikwea

Thiraiengele



Wanani tshifanyiso kha magazini tsha tshithu tshi re na:

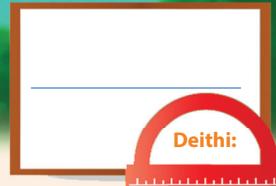
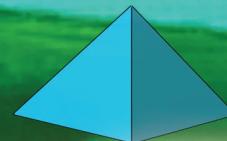
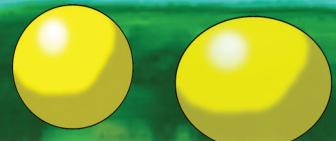
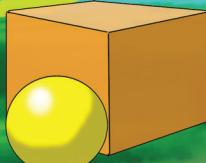
vhurumbu ha zwipulumbu

vhurumbutswititi



Teacher:  
Sign:  
Date:



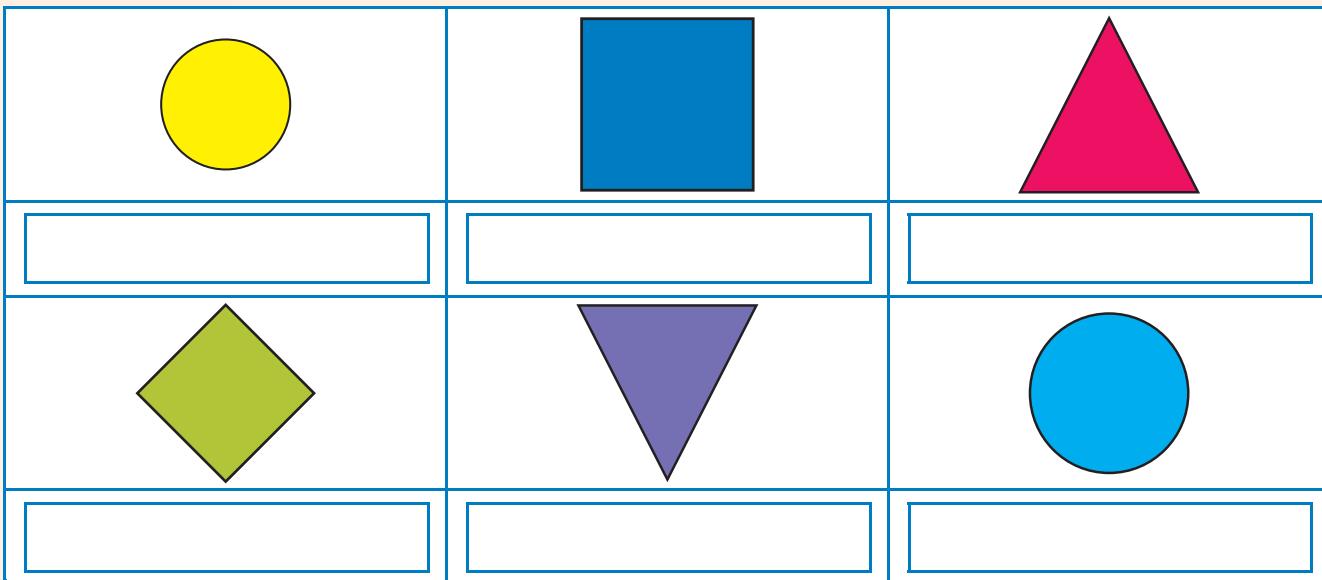


## Zwiñwe zwivhumbeo zwa 2-D

Themo ya 4



Bulani madzina a zwivhumbeo zwi tevhelaho:



Olani tshifanyiso tshanu inwi muñe ni tshi shumisa zwitendeledzi,  
thiraiengele na zwikwea fhedzi.



94

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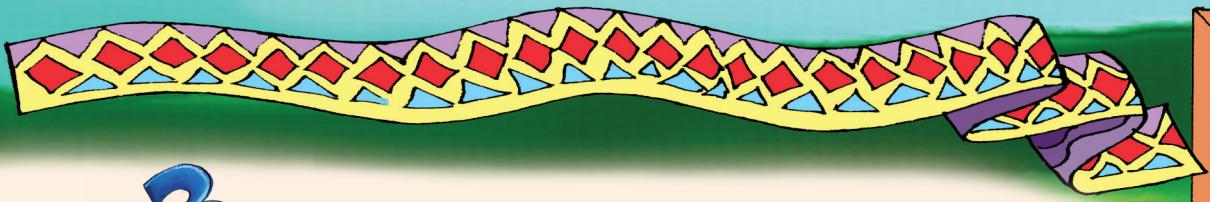
6

7

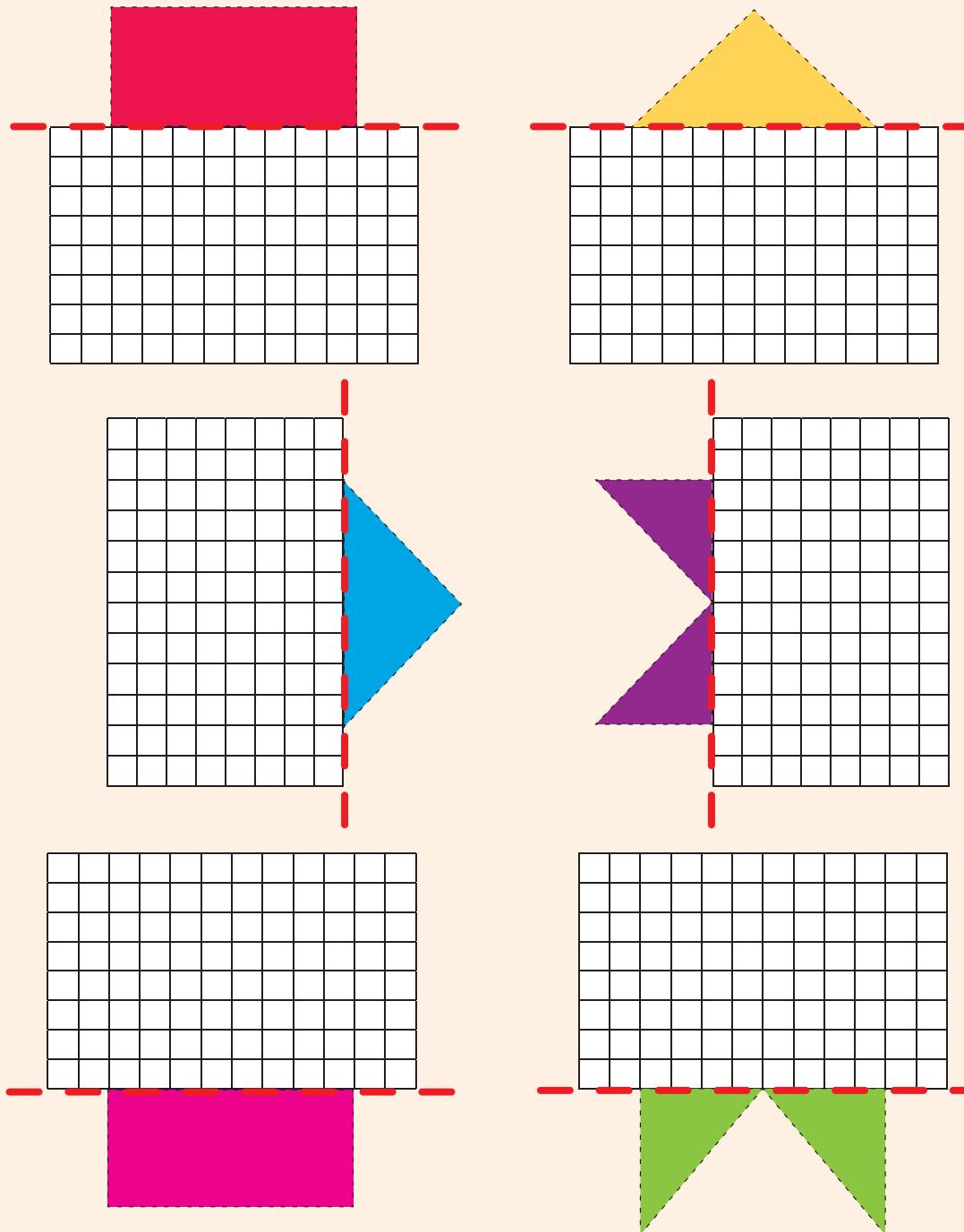
8

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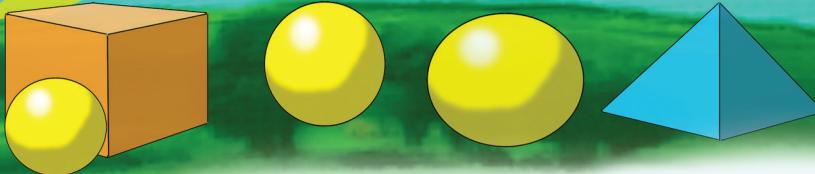
Olani ila inwe hafu ya tshivhumbeo tshiñwe na tshiñwe.  
Shumisani tshikwea tshituku uri tshi ni thuse.



Zwołhe zwi na vhurumbutswititi na vhurumbu ha tshipulumbu.



112



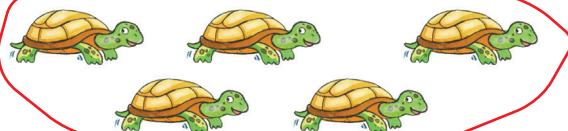
Themoo ya 4



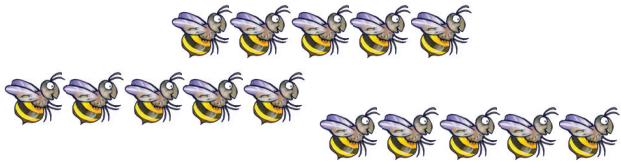
## Zwigwada zwa ḫthanu u swika kha 20

Itani tshitendeledzi ni tshi vhumba zwigwada zwa ḫthanu.  
Ni na zwigwada zwingana zwa ḫthanu?

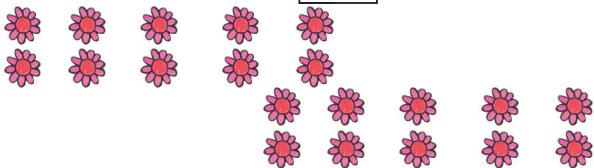
tshigwada tsha  1 tsha zwa 5



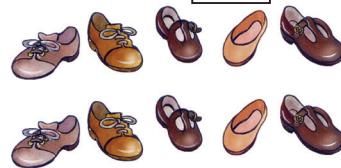
zwigwada zwa  zwa zwa 5



zwigwada zwa  zwa zwa 5



zwigwada zwa  zwa zwa 5



Vhalani tshivhalo tsha minwe. Nwalani phindulo yanu.



$5 + 5 + 5 =$



$5 + 5 + 5 + 5 =$



$5 + 5 + 5 + 5 + 5 =$



$5 + 5 + 5 + 5 + 5 + 5 =$



0

1

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4

5

6

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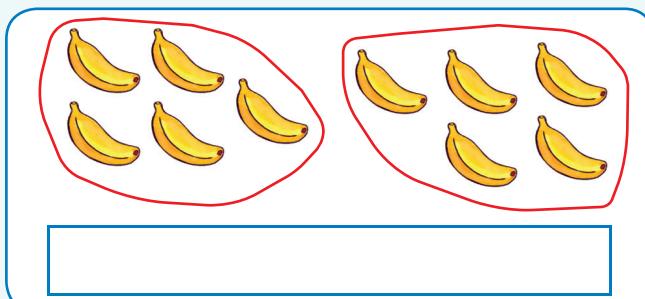
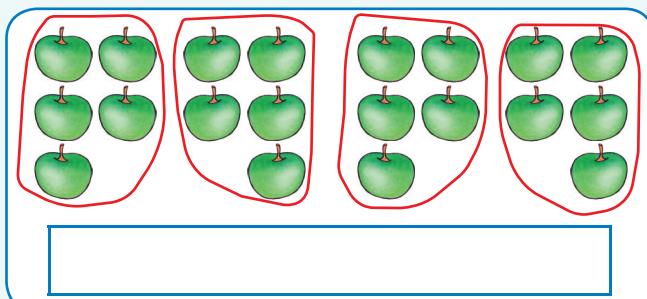
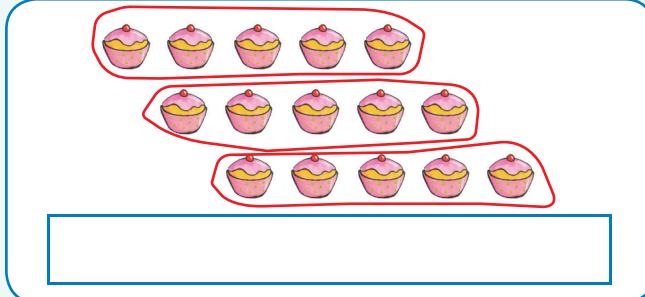
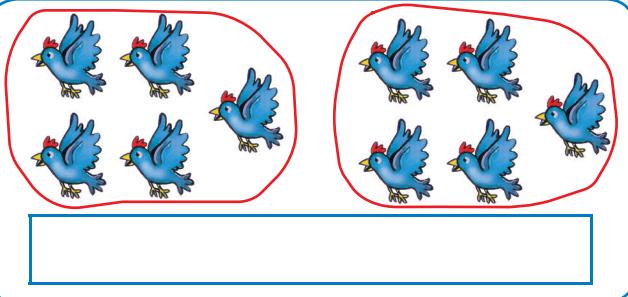
8

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Nwalani fhungombalo la zwi tevelaho:



Fhindulani mbudziso.



Ni kona u vhona khoini  
nngana?

I nwaleni sa  
fhungombalo:



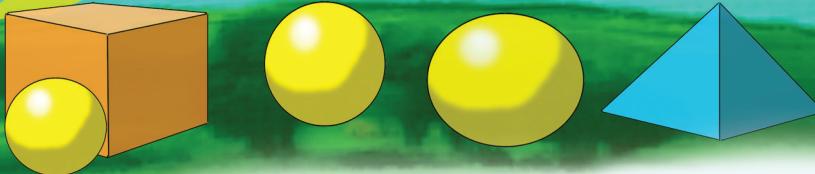
Nwalani nomboro dzi no khou t̄ahela.

I	2	3	4		6	7	8	9	
II	I2	I3	I4		I6	I7	I8	I9	



I I2 I3 I4 I5 I6 I7 I8 I9 20

113

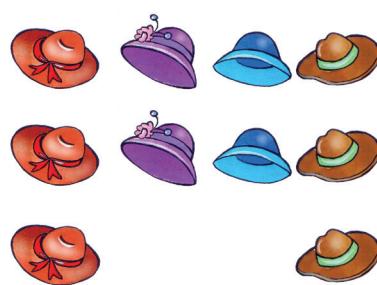
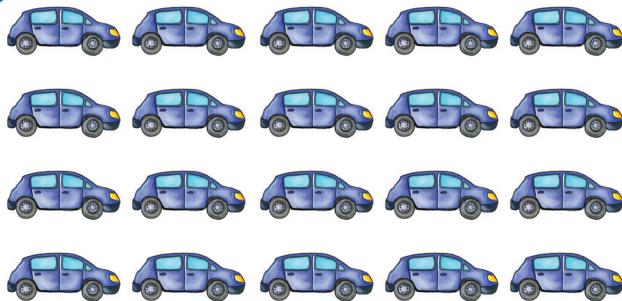
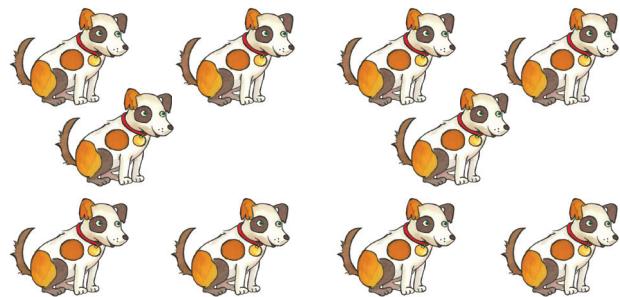


Themo ya 4



## Thanu – ndovhololo ya mu<sup>l</sup>anganyo wa u swika kha 20

Itani zwigwada zwa zwitanuzvit<sup>l</sup>anu ni nwale fhungombalo.



Olani zwigwada zwa zwivhumbeo ni tshi sumbedza mafhungombalo.

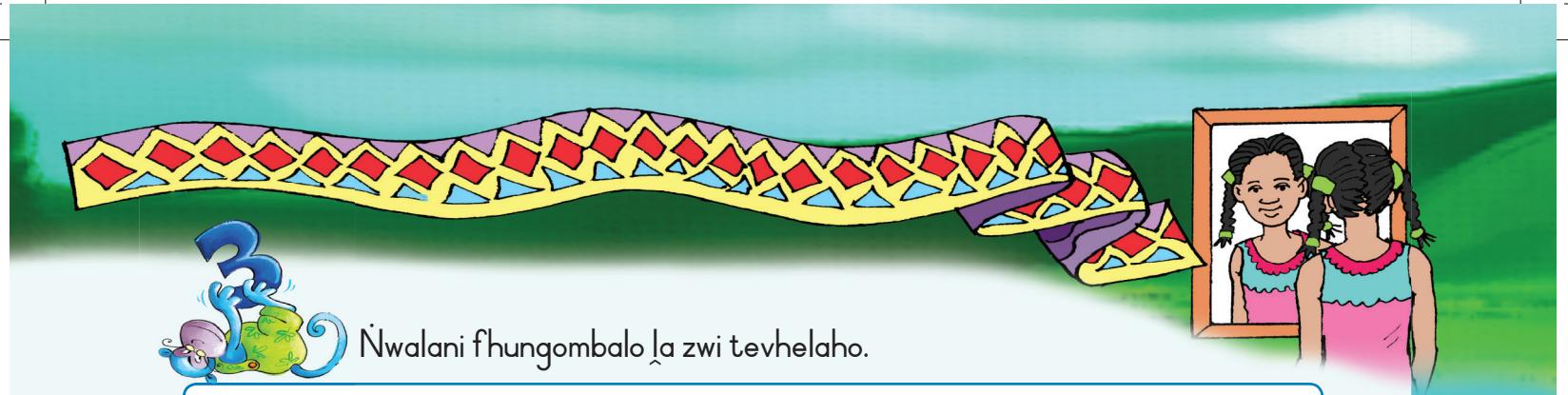
$$5 + 5 + 5 = \boxed{\quad}$$

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



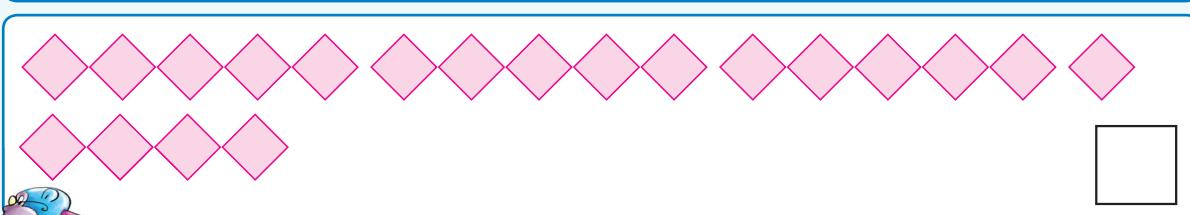
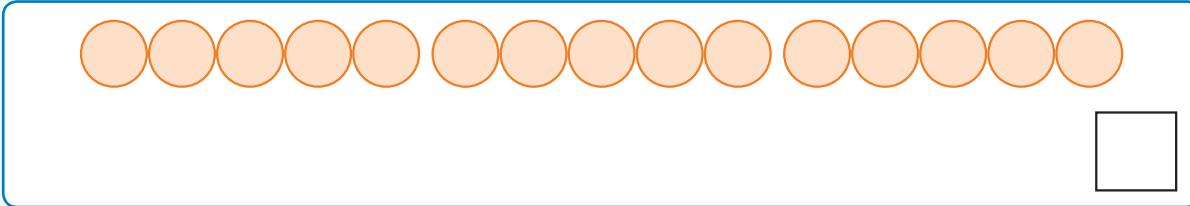
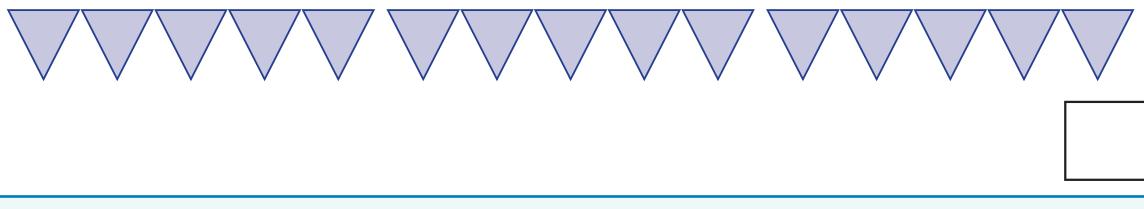
98

0 1 2 3 4 5 6 7 8 9 10



• Nwalani fhungombalo la zwi tevhelaho.

5 + 5 =



Ndi lungana hune na vhala nomboro thanu? \_\_\_\_\_

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

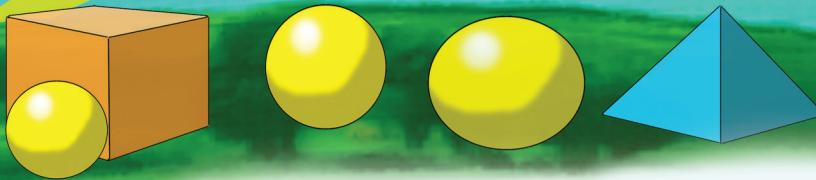


Hu na zwanda zwa 3 kha fasitere. Hu na minwe mingana kha fasitere?

Olani tshifanyiso ni nwale fhungombalo.



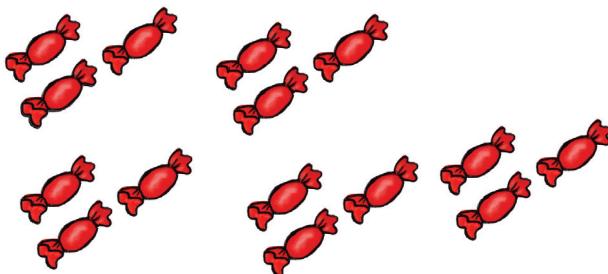
14



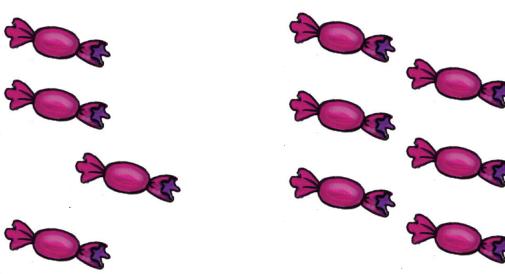
Themo ya 4



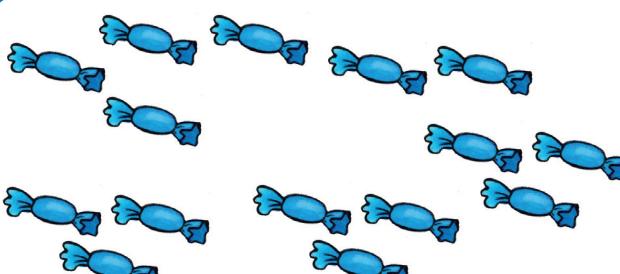
Kovhelani khonani t̄hanu malegere.  
Muñwe na muñwe wavho u do wana malegere mangana?



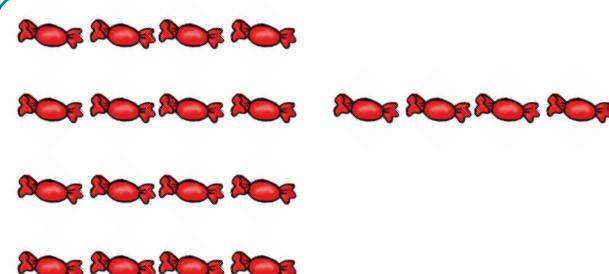
Muñwe na muñwe wavho u do  
wana malegere a



Muñwe na muñwe wavho u do  
wana malegere a



Muñwe na muñwe wavho u do  
wana malegere a



Muñwe na muñwe wavho u do  
wana malegere a

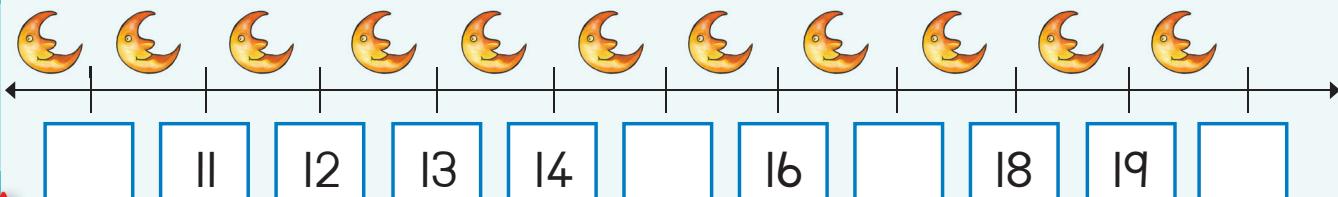


Khałarani nyandiso dza t̄hanu.

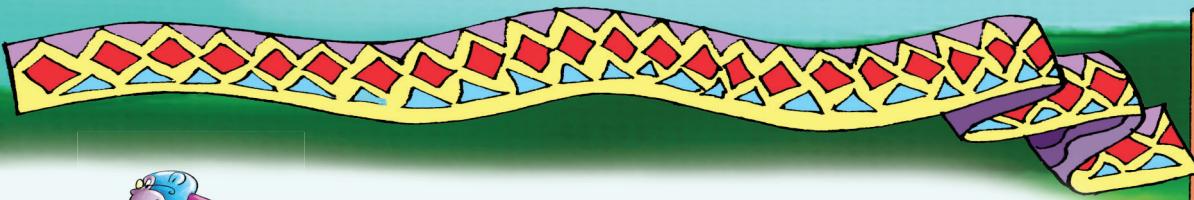
I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	20



N̄walani nomboro dzi no khou t̄ahela.



0 | 2 3 4 5 6 7 8 9 10



Itani nyolo ni tshi sumbedza zwi tevhelaho.  
Hu na zwivhaleli zwo salaho?



Kovhelani vhana vha~~tanu~~ zwivhaleli zwa 10.

Kovhelani vhana vha~~tanu~~ zwivhaleli zwa 6.

Ho sala zwivhaleli zwa  .

Ho sala zwivhaleli zwa  .

Kovhelani vhana vha~~tanu~~ zwivhaleli zwa 11.

Kovhelani vhana vha~~tanu~~ zwivhaleli zwa 16.

Ho sala zwivhaleli zwa  .

Ho sala zwivhaleli zwa  .



Ńwalani fhungombalo  la zwi tevhelaho:

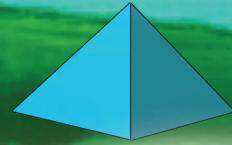
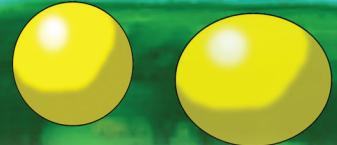
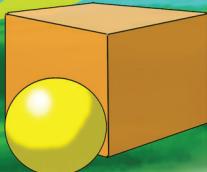


$$5 + 5 =$$



Teacher:  
Sign:  
Date:

115



Themo ya 4

## Phetheni dza nomboro – t̄hanu u swika kha 100



Fhedzisani phetheni nga u khala nyandiso dza t̄hanu.

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



Olani dzihupu ni tshi sumbedza zwi tevhelaho:

86, 88, 90



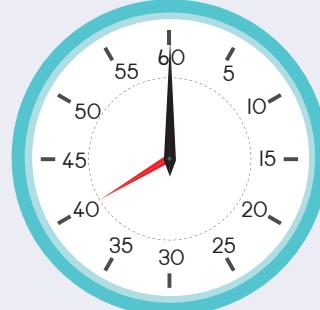
70, 75, 80



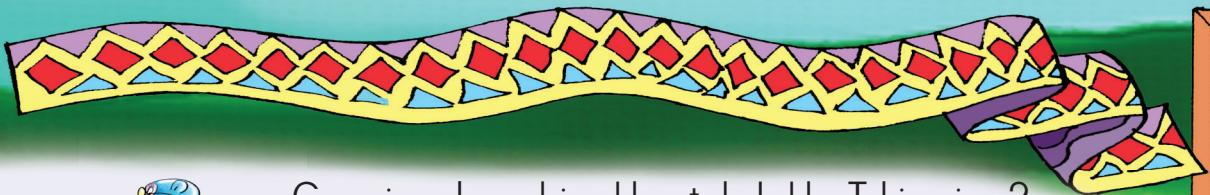
55, 60, 65, 70



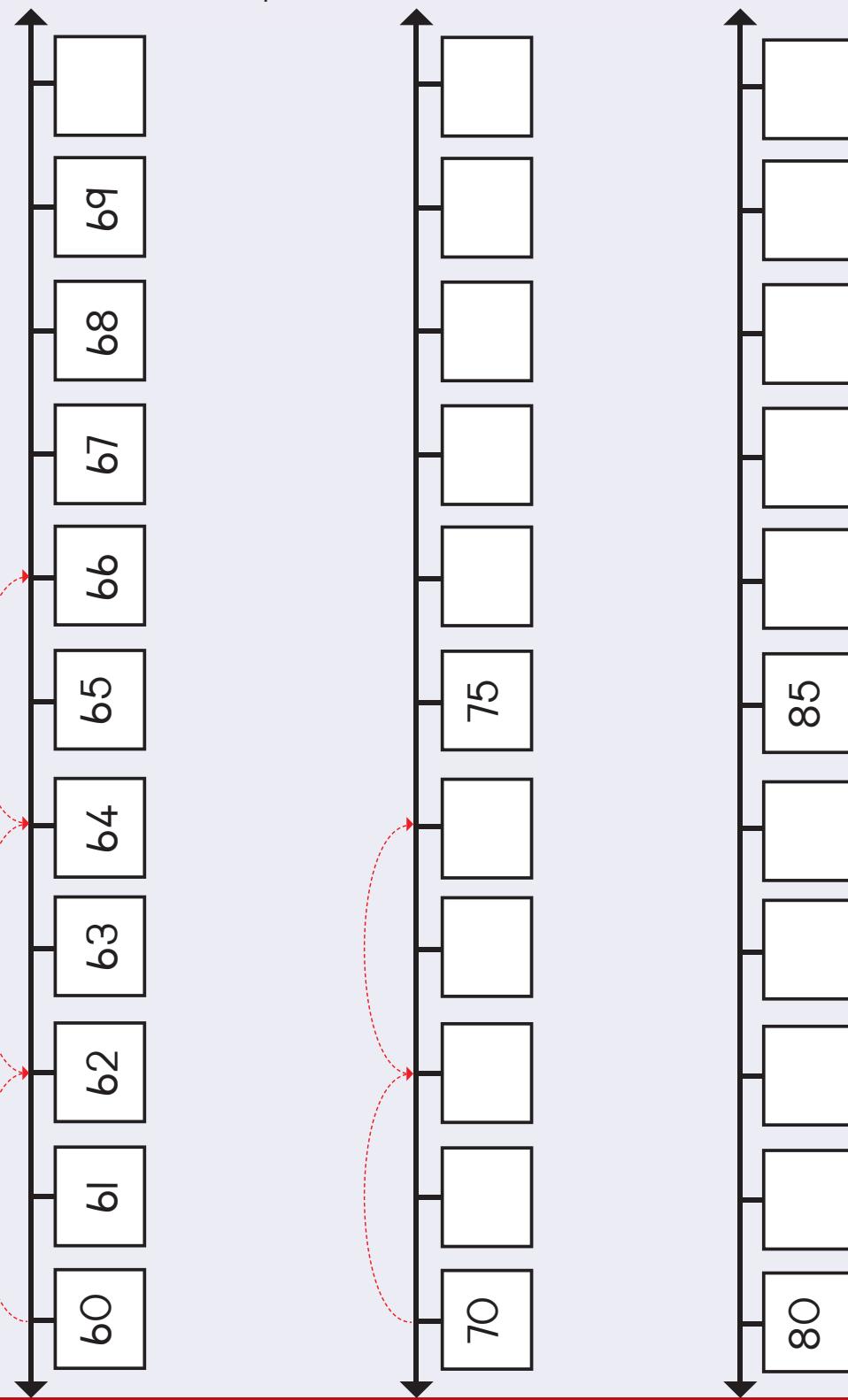
Shumisani watshi kha u sumbedza u vhala miminete nga miyanumiyanu.



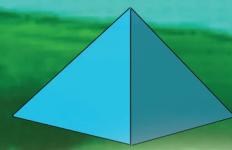
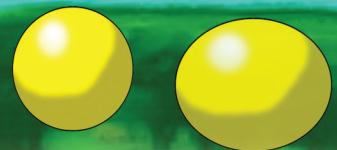
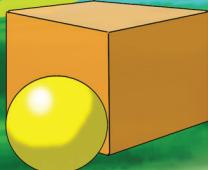
0 1 2 3 4 5 6 7 8 9 10



Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2  
ni dzi vhee kha mutalombalo.  
Ni ite na u fhedzisa dzihupu.



116



## Vhuimo na mbonalo

Themo ya 4



Livhanyani phanda na murahu ha tshipuka tshiñwe na tshiñwe.

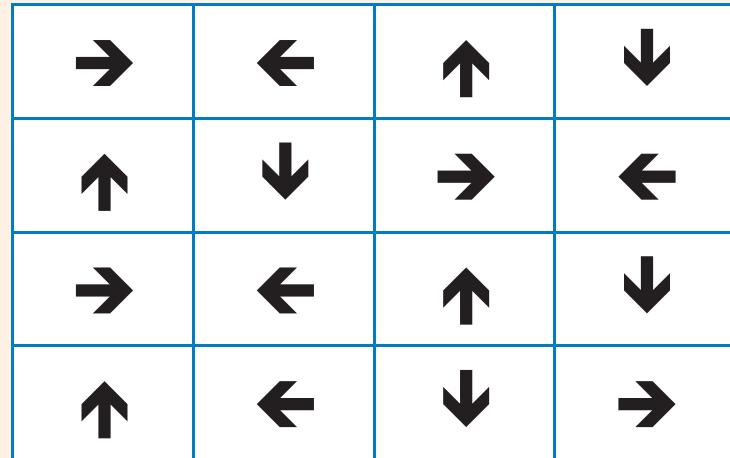
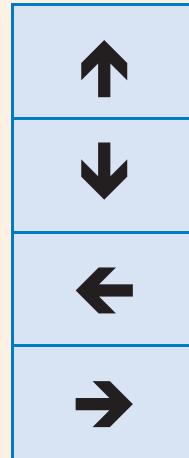
Phanda



Murahu



Tangedzelani musevhe u no yelana na musevhe u re tshibulokoni tsha lutombo.



104

0

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2

3

4

5

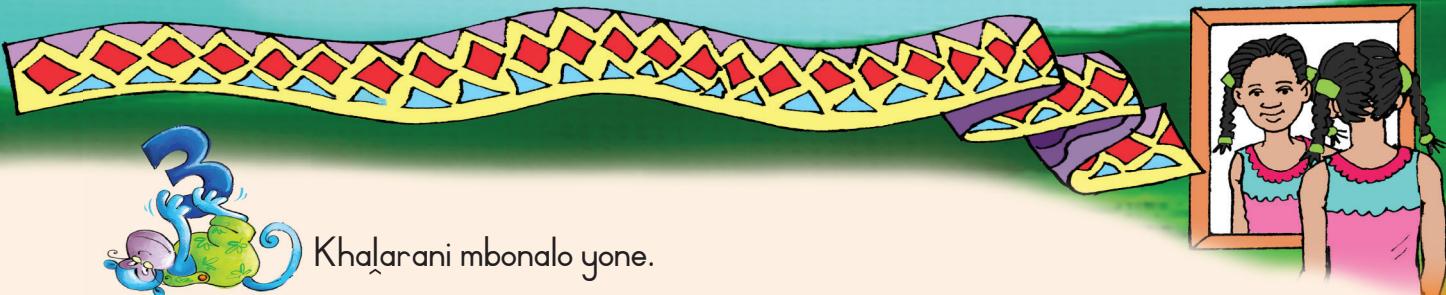
6

7

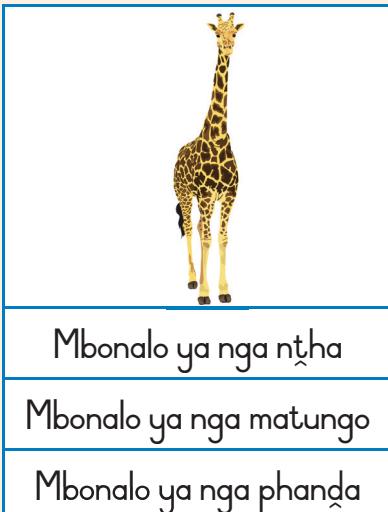
8

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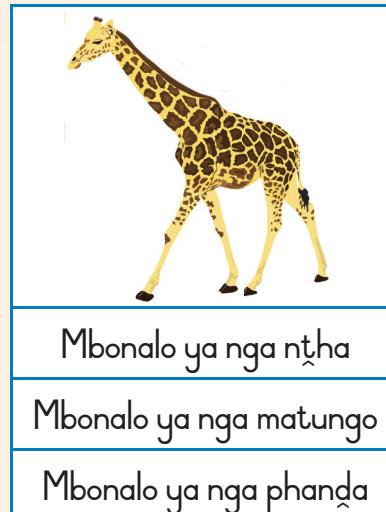
Khalarani mbonalo yone.



Mbonalo ya nga nt̄ha

Mbonalo ya nga matungo

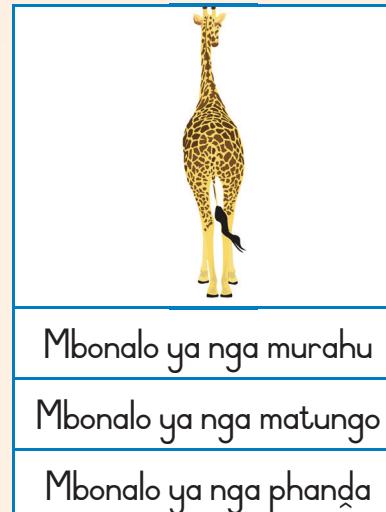
Mbonalo ya nga phanda



Mbonalo ya nga nt̄ha

Mbonalo ya nga matungo

Mbonalo ya nga phanda



Mbonalo ya nga murahu

Mbonalo ya nga matungo

Mbonalo ya nga phanda



Tshimange tshi ngafhi?

Khalarani phindulo i re yone.



Nga murahu

Nga phanda

Tsini na



Nga murahu

Nga phanda

Tsini na



Nga murahu

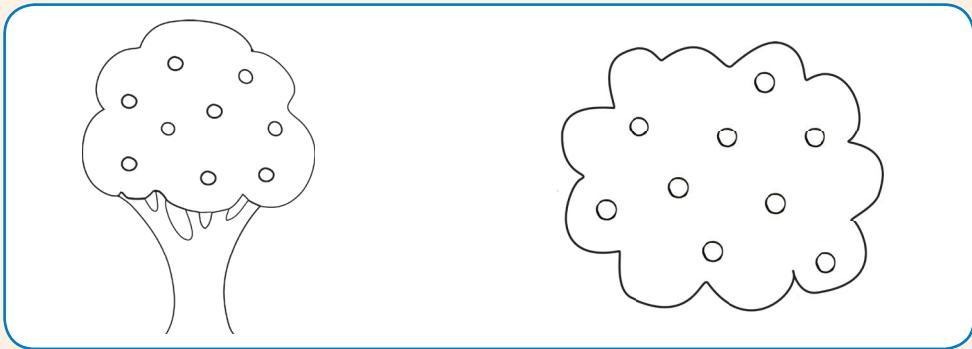
Nga phanda

Tsini na

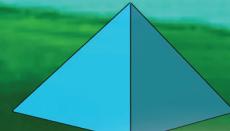
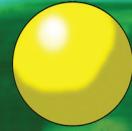
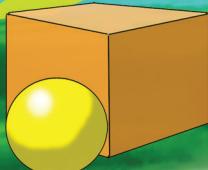


Lavhelesani zwifanyiso  
zwa muri.

Khalarani mbonalo ya  
nga nt̄ha.



117

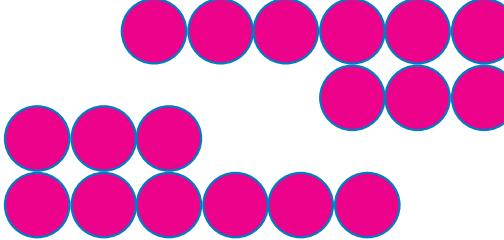
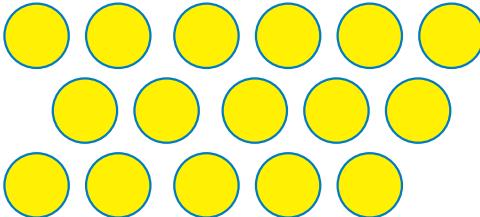
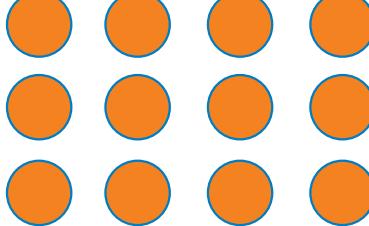
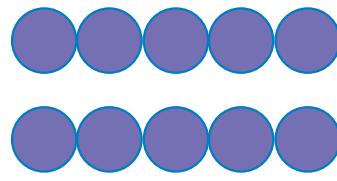
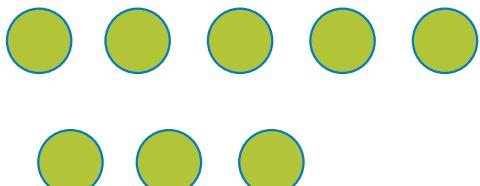
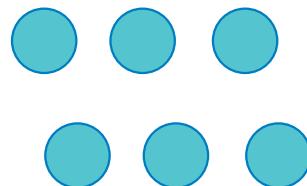


Themo ya 4

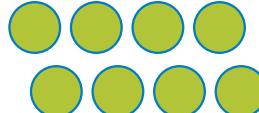
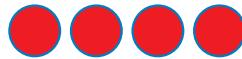
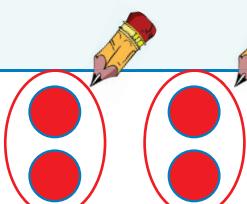
## Zwigwada zwa mbili u swika kha 20



Itani zwigwada zwa zwivhilizwivhili. Nwalani uri hu na zwigwada zwingana.



Itani zwigwada zwa zwivhili. Olani zwigwada.



106

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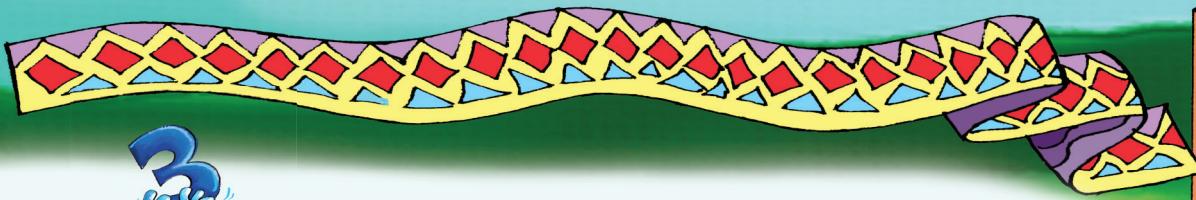
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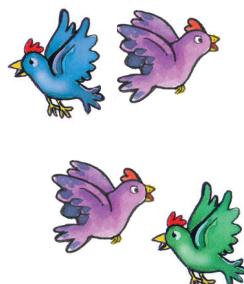
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Fhindulani mbudziso.



Hu na zwingoni zwingana?

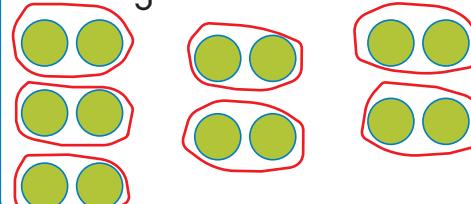
Ni nga ita zwigwada zwingana zwa zwivhili?

Nwalani fhungombalo.



Itani  
zwitendeledzi ni  
tshi vhumba zwi  
tevhelaho.

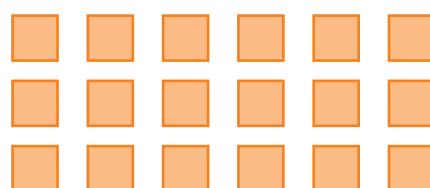
Zwigwada zwa 7 zwa 2



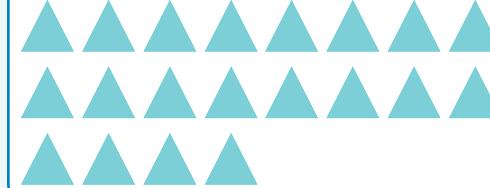
Zwigwada zwa 8 zwa 2



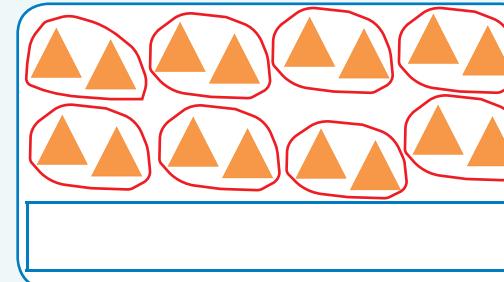
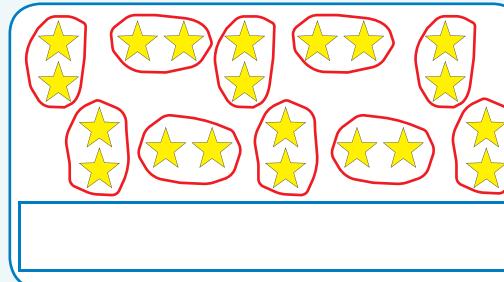
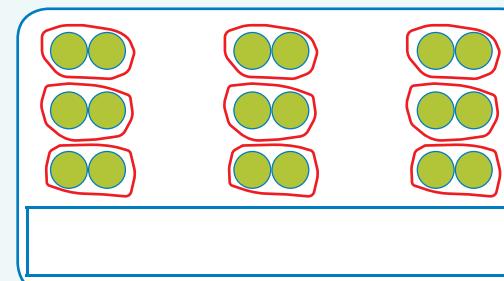
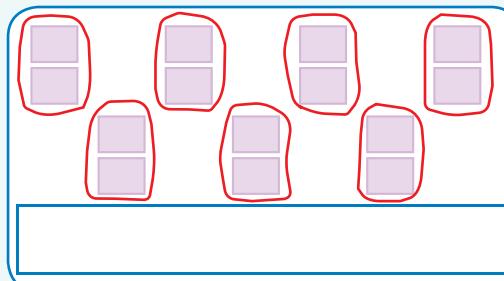
Zwigwada zwa 9 zwa 2



Zwigwada zwa 10 zwa 2



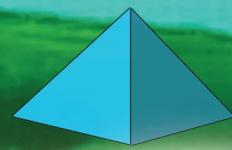
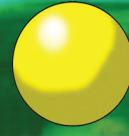
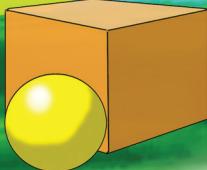
Nwalani  
fhungombalo la  
zwi tevhelaho.



Teacher:  
Sign:  
Date:



118

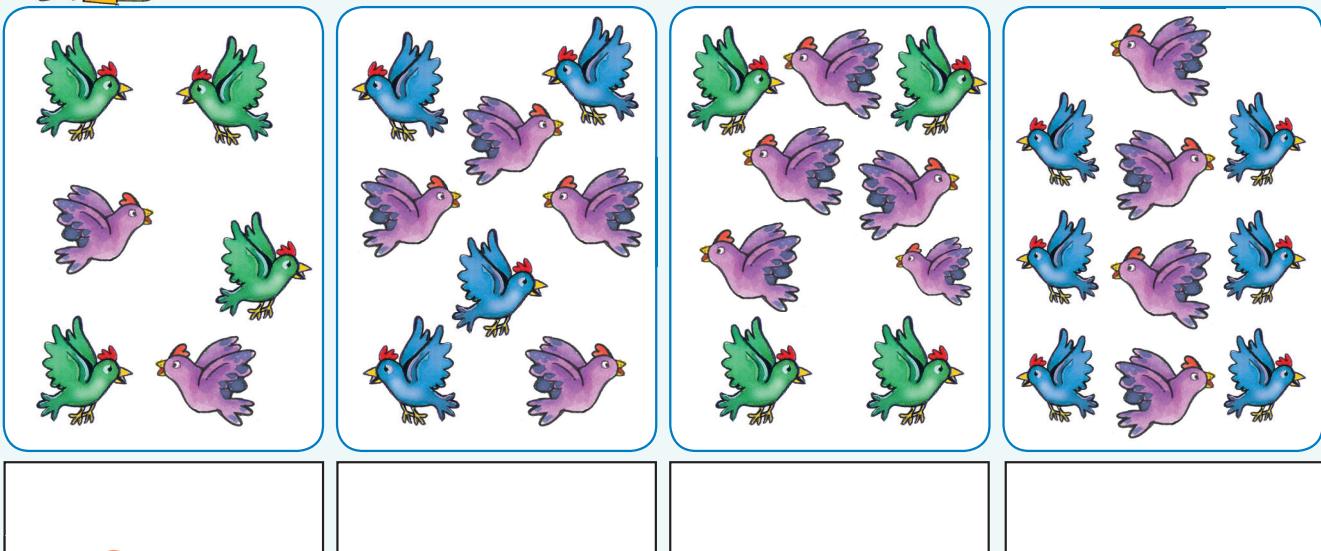


Themo ya 4

## Mbilimbili – ndovhololo ya mutanganyo u swika kha 20



Hu na milenzhe mingana? Nwalani fhungombalo la tshifanyiso tshiinwe na tshiinwe.



Olani zwivhumbeo zwa zwi tehelaho:

$$2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$$



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

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

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



108

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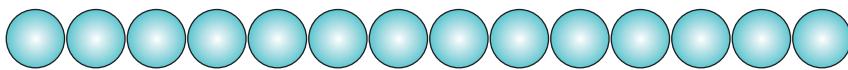
8

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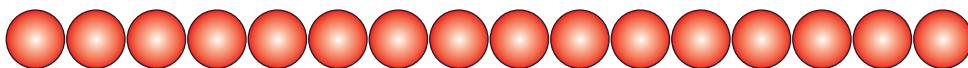
10

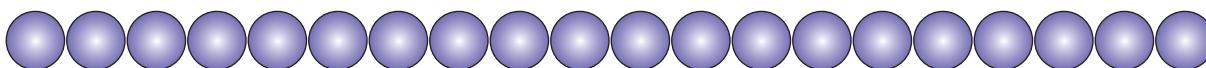


Nwalani fhungombalo la zwi tevhelaho:



$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\phantom{0}}$$









Khalarani nyandiso  
dza mbili.

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	20



Ndi na phakethe dza 6 dzi re na malegere a 2 kha iinwe na iinwe.

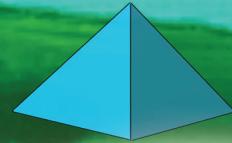
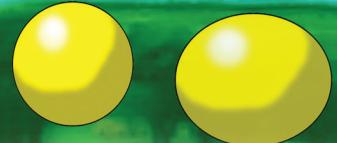
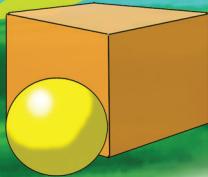
Ndi na malegere mangana? Olani tshifanyiso ni nwale fhungombalo.



Ndi na malegere a .



119



Themo ya 4



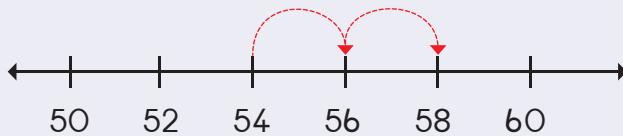
Fhedzisani phetheni nga u khalara nomboro dzone.



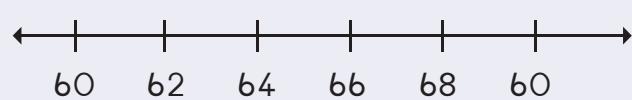
Olani dzihupu ni tshi sumbedza zwi tevhelaho:

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

54, 56, 58



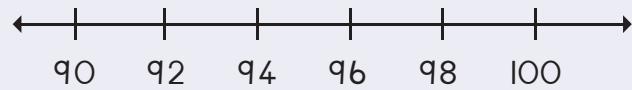
64, 66, 68



74, 76, 78



94, 96, 98

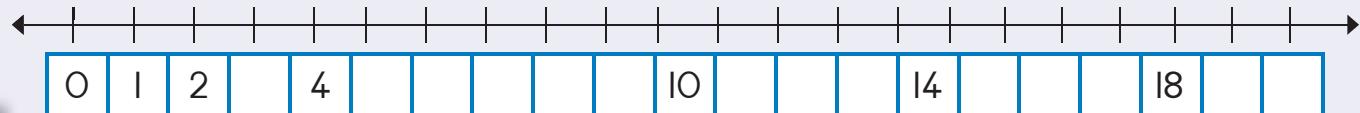


Nwalani nomboro dzi no khou ṭahela. Khaṭarani phetheni: 2, 4...

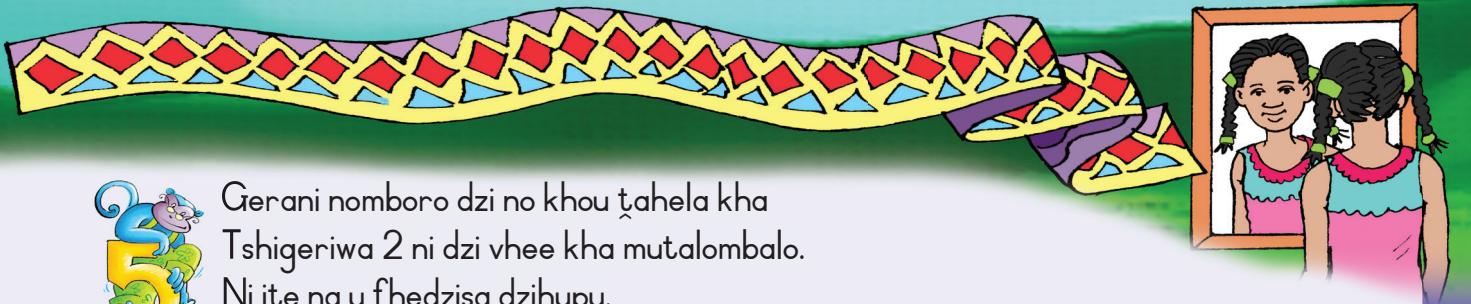
I			3				7			10
II							17			20



Fhedzisani mutalombalo.



0 1 2 3 4 5 6 7 8 9 10



Gerani nomboro dzi no khou ḥahela kha  
Tshigeriwa 2 ni dzi vhee kha mutalombalo.  
Ni ite na u fhedzisa dzihupu.



The diagram illustrates a 4x4 grid of binary trees, each consisting of a root node (square) with two children (rectangles). The nodes are labeled with binary strings:

- Row 1: 60, 61, 63, 65
- Row 2: 70, 71, 73, 75
- Row 3: 80, 81, 83, 85
- Row 4: 90, 91, 93, 95

Red dashed arrows highlight specific connections between nodes across adjacent columns:

- From 60 to 71
- From 61 to 70
- From 63 to 73
- From 65 to 75
- From 80 to 91
- From 81 to 90
- From 83 to 93
- From 85 to 95

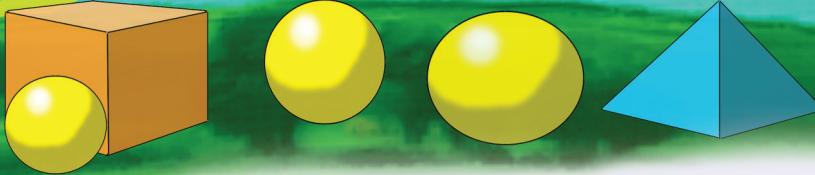


Teacher:
Sign:
Date:



A horizontal ruler scale with vertical tick marks. The numbers 11 through 20 are placed above the scale, each aligned with its corresponding tick mark. The numbers are colored as follows: 11 (blue), 12 (green), 13 (orange), 14 (yellow), 15 (pink), 16 (light green), 17 (light orange), 18 (light yellow), 19 (light pink), and 20 (light green).

120

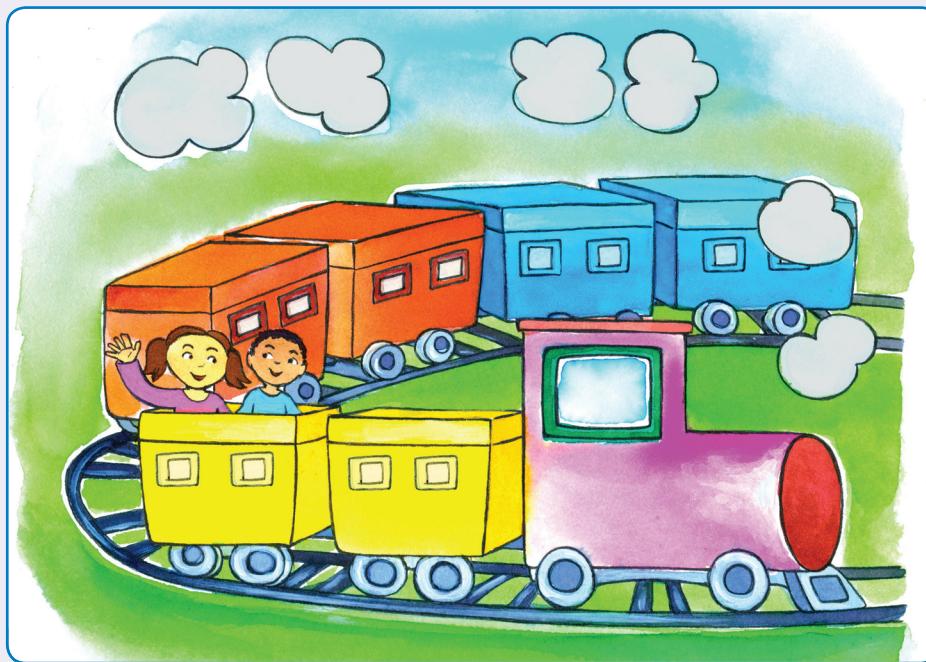


Themo ya 4

## Phetheni dza nomboro – mbili u swika kha 100



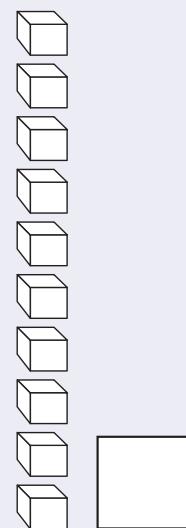
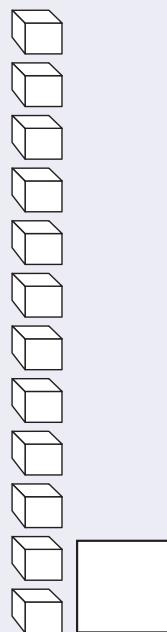
Ni a kona u vhana phetheni ya zwivhilizvhili?



Khalarani zwibulo ni tshi sumbedza zwigwada zwa zwivhilizvhili.  
Vhalani uri hu na zwigwada zwingana.



4



112

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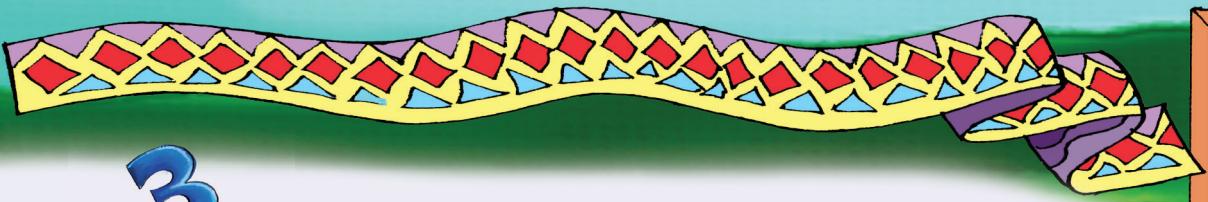
6

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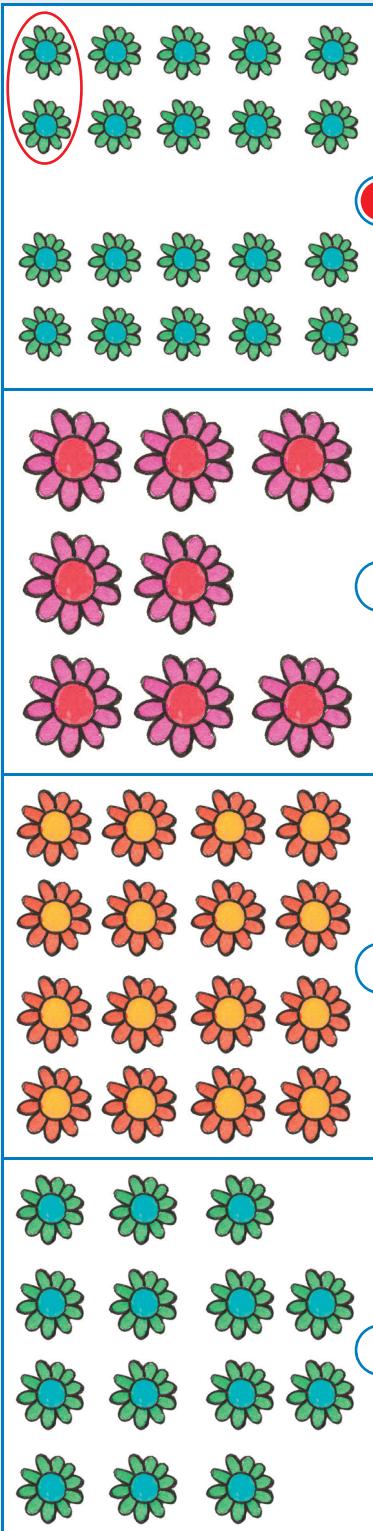
8

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Livhanyani zwigwada zwa zwivhilizwvhili na fhungombalo nge na tala mutalo.



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

$$2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$$

$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20$$

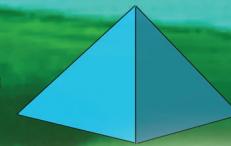
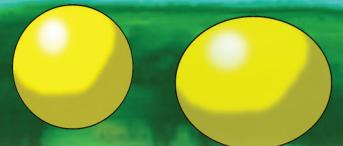
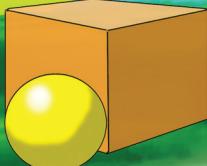
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$$



Teacher:
Sign:
Date:



121

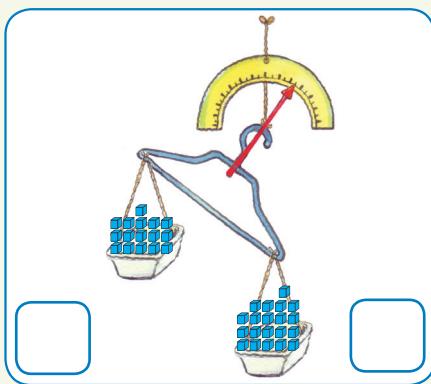
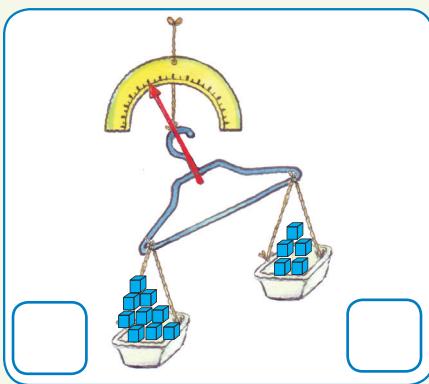
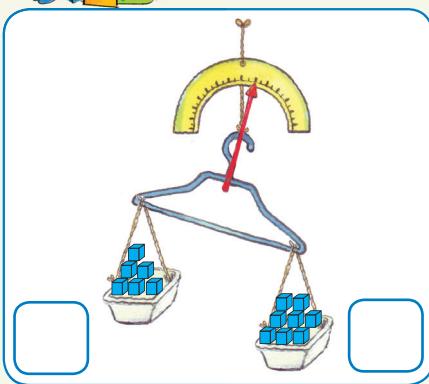


Themo ya 4

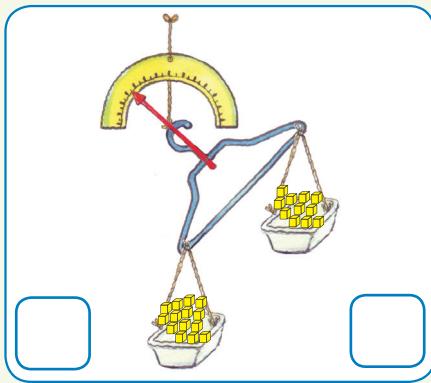
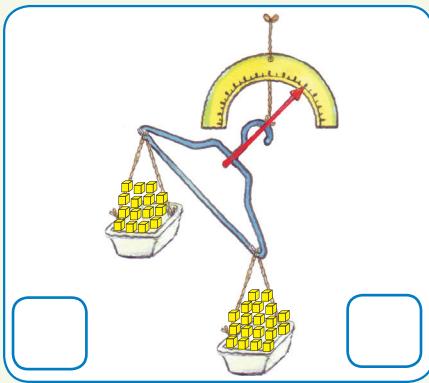
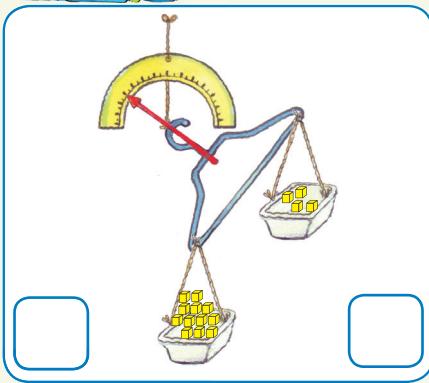
## Tshileme



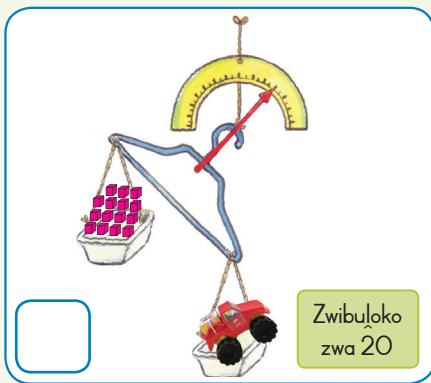
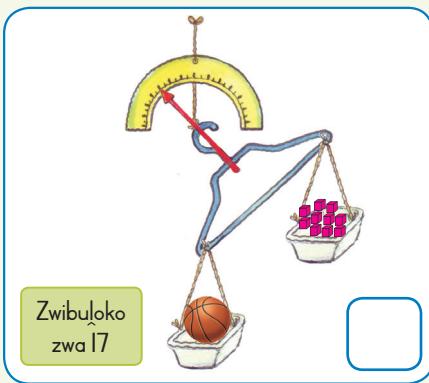
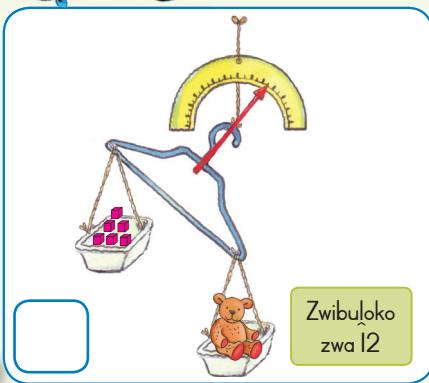
Nwalani uri hu na zwibuloko zwingana kha tshifaredzi tshiñwe na tshiñwe.  
Tangedzelani tshifaredzi tshi no lemelesa.



Nwalani uri hu na zwibuloko zwingana kha tshifaredzi tshiñwe na tshiñwe.  
Tangedzelani tshifaredzi tshi no leluwesa.



Vhalani uri hu na zwibuloko zwingana. Ni wane uri hu todea zwiñwe zwibuloko  
zwingana zwa u engedza nga nt̄ha u itela u balantsa thoyi. Ro ni vhudza uri thoyi  
i lemela zwibuloko zwingana.



14

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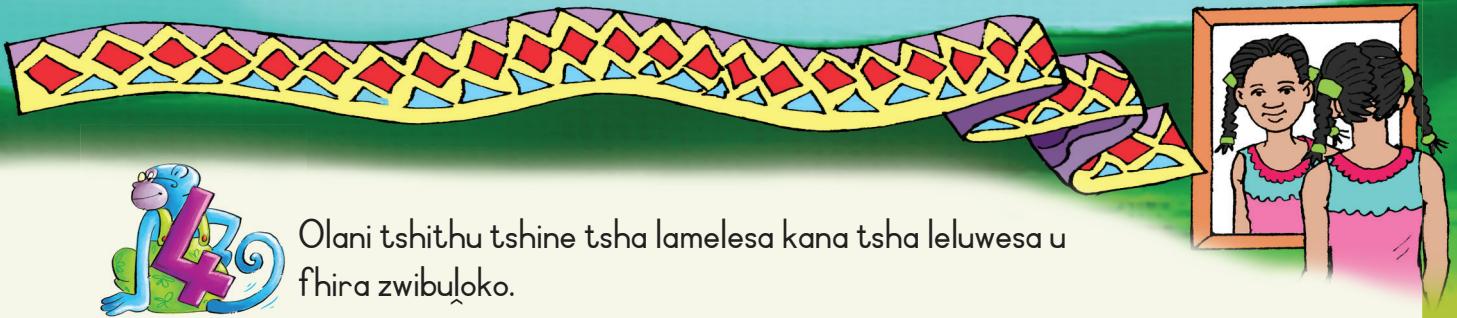
6

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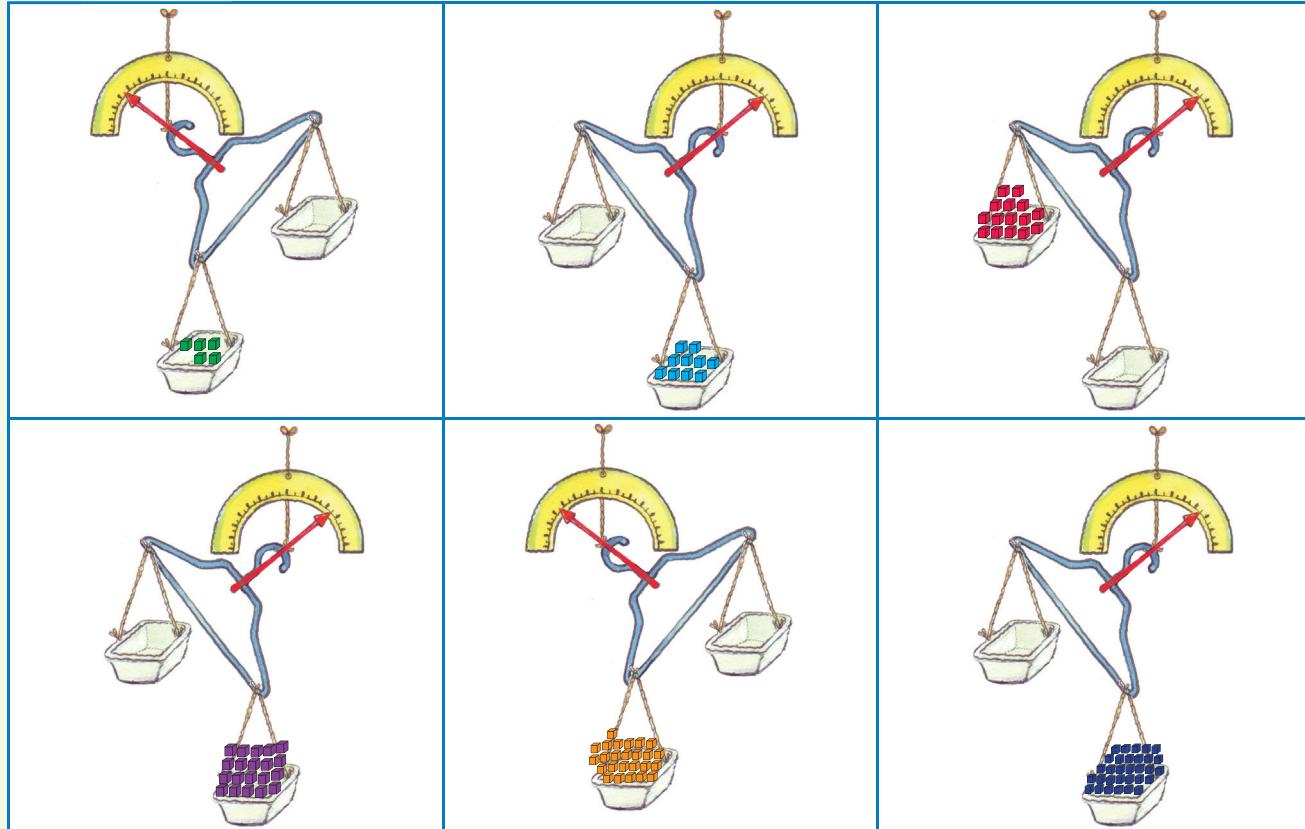
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Olani tshithu tshine tsha lamelesa kana tsha leluwesa u fhira zwibuloko.

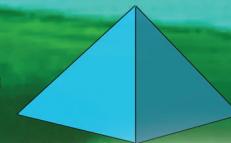
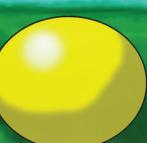
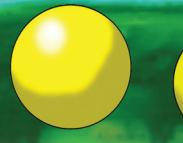
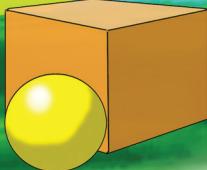


Shumisani zwithu zwa 5 zwi re disiken iyanu. Thomanि nga u anganyela uri zwi lemela vhugai ni kole u zwi kala kha tshikalo kana tshikalotshilinganyisi u itela u vhona arali nyanganyelo iyanu i yone.

Olani tshithu	Humbulelani	Tshileme	Phambano
	zwibuloko zwa _____	zwibuloko zwa _____	_____ - _____ = _____



122

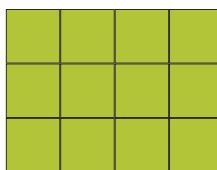


Themo ya 4

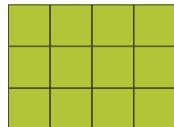
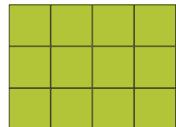


Fhindulani zwi tevhelaho:

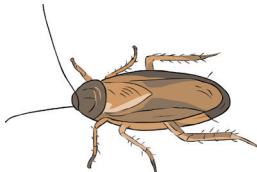
Hu na zwikwea zwingana?




Hu na zwingana zwino?




Hu na milenzhe mingana?




Hu na milenzhe mingana zwino?

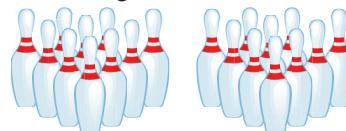



Ri ri 6 yo ingwa kavhili ndi

Hu na zwikitili zwingana?




Hu na zwikitili zwingana zwino?




Ri ri 10 yo ingwa kavhili ndi

Hu na maduvha mangana kha vhege?

S	M	T	W	T	F	S

Hu na maduvha mangana kha vhege mbili?

S	M	T	W	T	F	S

Ri ri 7 yo ingwa kavhili ndi

Hu na khirayoni nngana?




Hu na khirayoni nngana zwino?




Ri ri 8 yo ingwa kavhili ndi



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4

5

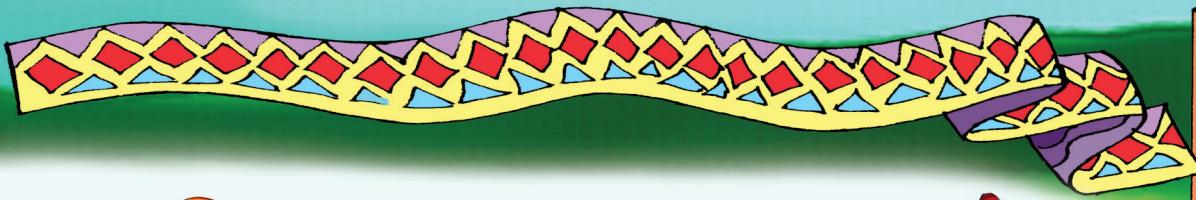
6

7

8

9

10



Nwalani phindulo.

Nyingakavhili ya 4	=	8
Nyingakavhili ya 10	=	
Nyingakavhili ya 11	=	
Nyingakavhili ya 2	=	
Nyingakavhili ya 6	=	



Nwalani phindulo.

Nyingakavhili ya mbili ndi	iña
Nyingakavhili ya raru ndi	
Nyingakavhili ya iña ndi	
Nyingakavhili ya thanu ndi	
Nyingakavhili ya rathi ndi	
Nyingakavhili ya sumbe ndi	

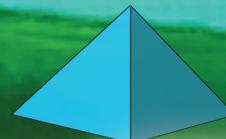
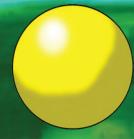
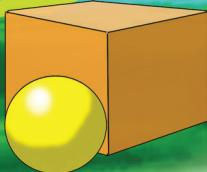


Fhedzisani thebulu.

$9 + 9 + 1 =$	<input type="text"/>	kana	Ho ingwa kavhili $9 + 1 =$	<input type="text"/>
	<input type="text"/>	kana	Ho ingwa kavhili $8 + 1 =$	<input type="text"/>
$10 + 10 + 1 =$	<input type="text"/>	kana		<input type="text"/>
$7 + 7 + 1 =$	<input type="text"/>	kana	Ho ingwa kavhili $7 + 1 =$	<input type="text"/>



123

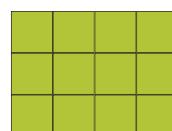
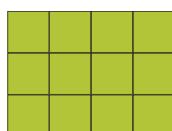


Themo ya 4

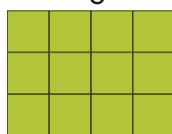


Findulani zwi tevhelaho:

Hu na zwikwea zwingana?

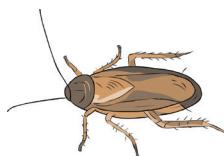
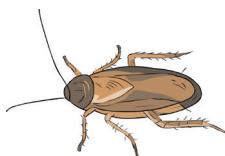



Hu na zwikwea zwingana zwino?

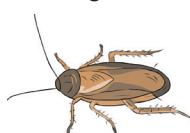



Ri ri hafu ya 24 ndi 12.

Hu na milenzhe mingana?




Hu na milenzhe mingana zwino?




Ri hafu ya 12 ndi

Hu na zwikitili zwingana?




Hu na zwikitili zwingana zwino?




Ri hafu ya 20 ndi

Hu na maduvha mangana kha vhege mbili?

S	M	T	W	T	F	S

Hu na maduvha mangana kha vhege nthihi?

S	M	T	W	T	F	S

Ri hafu ya 14 ndi

Hu na khirayoni nngana?



Hu na khirayoni nngana zwino?




Ri hafu ya 16 ndi



Nwalani  
phindulo.

Hafu ya 8	=	4
Hafu ya 10	=	
Hafu ya 6	=	
Hafu ya 12	=	
Hafu ya 14	=	



Nwalani phindulo.

Hafu ya <b>i</b> na ndi	mbili
Hafu ya <b>r</b> athi ndi	
Hafu ya <b>m</b> bili ndi	
Hafu ya <b>ma</b> lo ndi	
Hafu ya <b>f</b> umi ndi	



Nwalani phindulo.

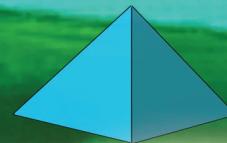
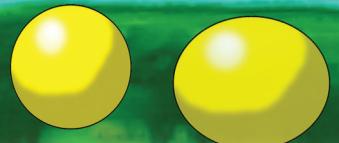
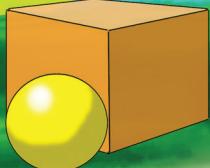
Hafu ya <b>1</b> 0 ndi	5
Hafu ya <b>1</b> 2 ndi	
Hafu ya <b>1</b> 4 ndi	
Hafu ya <b>1</b> 6 ndi	
Hafu ya <b>1</b> 8 ndi	



Teacher:  
Sign:  
Date:



I24

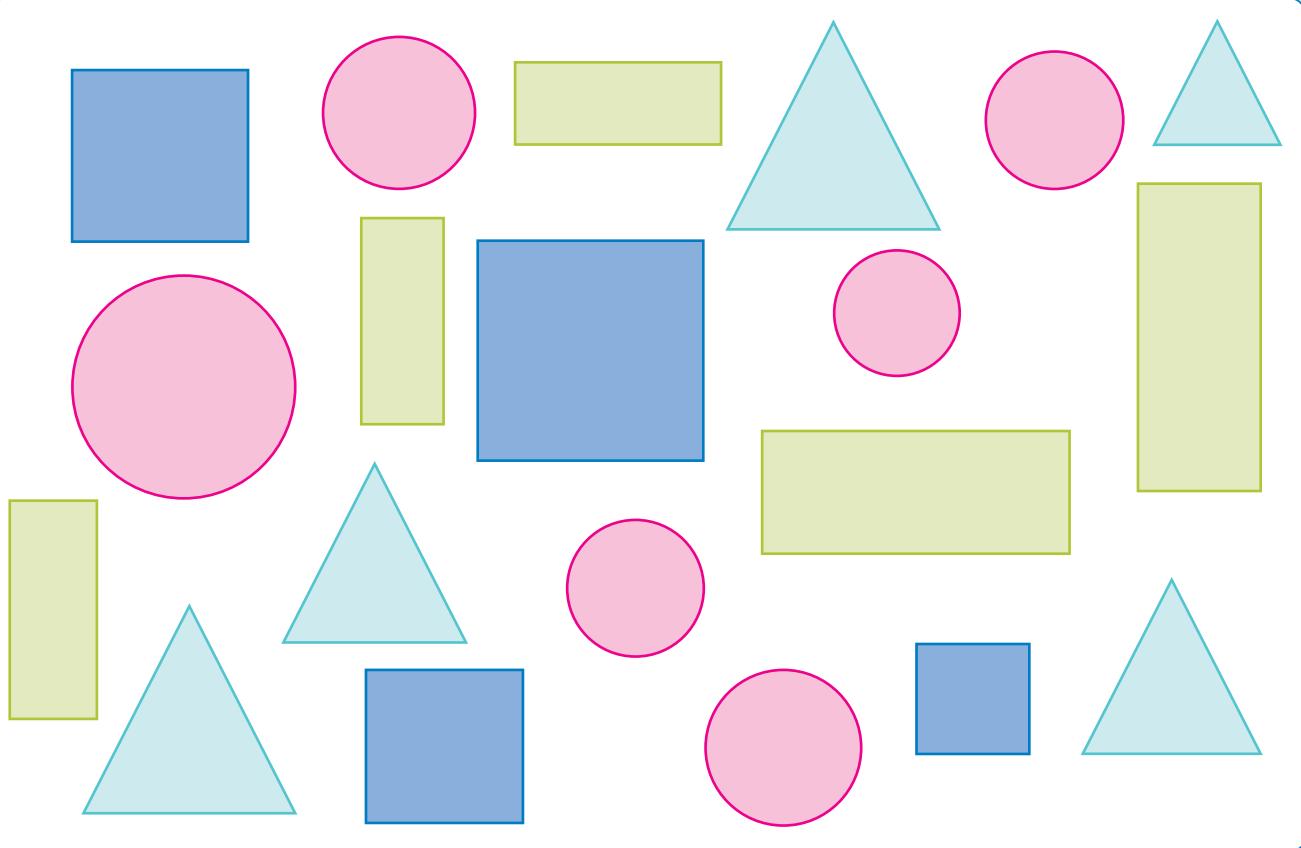


Themo ya 4



Vhalani uri hu na zwivhumbeo zwingana two fhambananaho, ni kone u fhindula mbudziso.

## Data



1. Hu na zwikwea zwingana?

2. Hu na thiraiengele nngana?

3. Hu na rekithiengele nngana?

4. Hu na zwiendeledzi zwingana?

I20

0

1

2

3

4

5

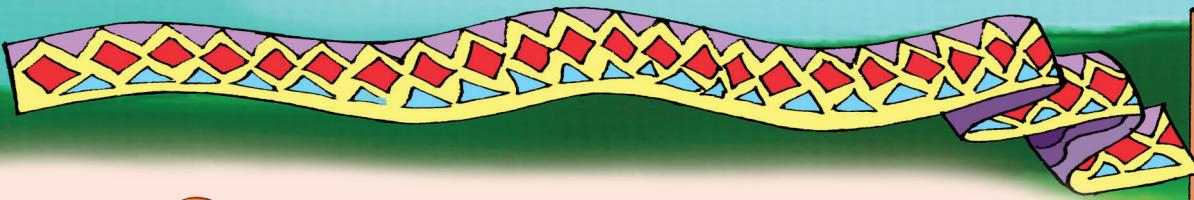
6

7

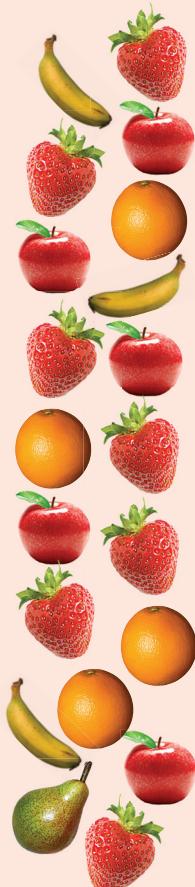
8

9

10



Mitshelo iyi yo nangiwa nga khonani dzañu dza 20.  
Vhekanyani mitshelo ni ite nyolo kha phikhitogirafu  
(girafu ya zwifanyiso) ya mitshelo ye na i vhekanya ni kone u  
fhindula mbudziso dzi re nga fhasi.



Mutshelo une ra u funesa?

Khii =

Zwitiroberi	Maapula	Mapiere	Miomva	Maswiri

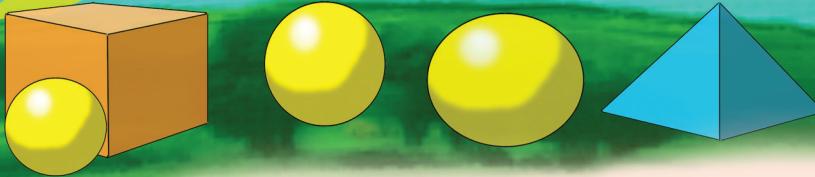
Ndi vhana vhangana vha no funesa zwitioroberi?	
Ndi vhana vhangana vha no funesa maapula?	
Ndi vhana vhangana vha no funesa mapiere?	
Ndi vhana vhangana vha no funesa miomva?	
Ndi vhana vhangana vha no funesa maswiri?	
Ndi mutshelo ufhio u no funeswa nga vhana?	
Ndi mutshelo ufhio u sa funeswi nga vhana?	



Teacher:  
Sign:  
Date:



125



## Data iñwe hafhu

Themo ya 4

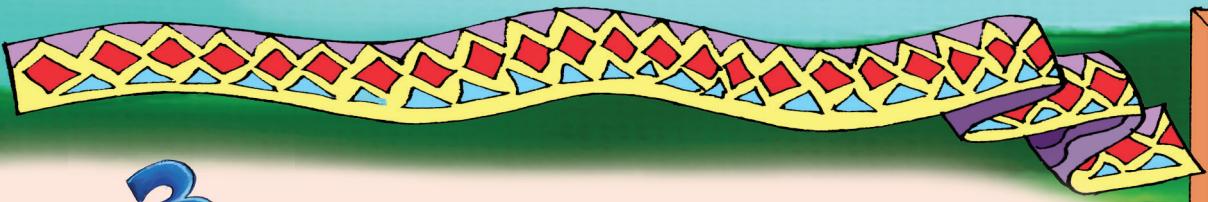


Vhana vha re kilasini vha na thoyi (zwitambiswa) dzi tevhelaho.  
Vha na nngana dza lushaka luñwe na luñwe?



Fhedzisani thebulu.

Thoyi	Nomboro (Tshivhalo)
Mipopi	
Matiraka	
Thedibee	
Roboto	

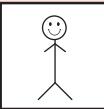


Fhedzisani phikhithogirafu nga u ola zwivhalo zwo linganaho  
zwa vhathe vha zwitanda vho imela lushaka luñwe na luñwe  
lwa thoyi.



Thoyi dzi re hone

Khii =



Mipopi	Matiraka	Thedibee	Roboto



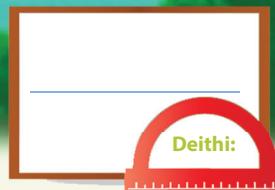
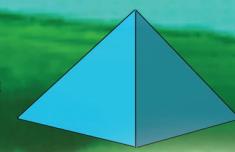
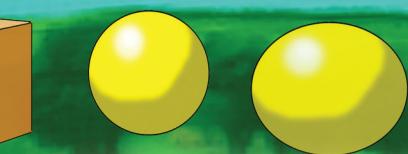
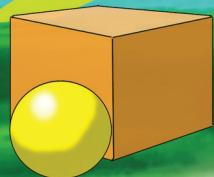
Fhindulani mbudziso. Lavhelesani phikhitogirafu uri i ni thuse.

Ndi vhana vhangana vha re na mpopi?	
Ndi vhana vhangana vha re na tiraka?	
Ndi vhana vhangana vha re na thedibee?	
Ndi vhana vhangana vha re na roboto?	
Ndi thoyi ifhio i no takaleleswa?	
Ndi thoyi ifhio i sa takaleleswi?	



Teacher:  
Sign:  
Date:





Ri elā zwiludi nga ndilade? Talani mutalo ni tshi livhanya tshithu na tshishumiswa tshone tsha u kala.



Itani thiki kha tshifaredzi (mudzio) tshi no fara zwițukutuku.

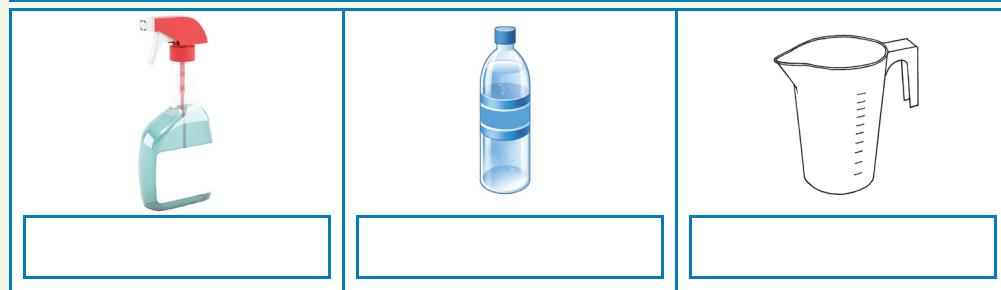
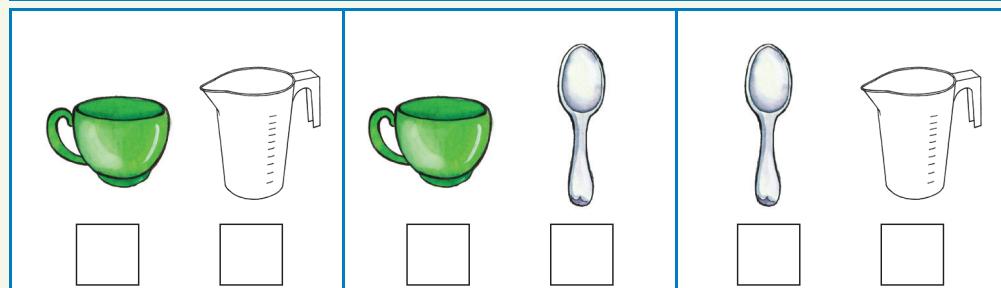
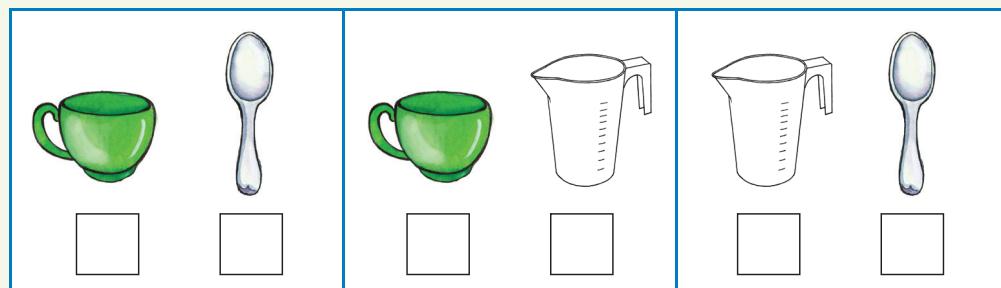
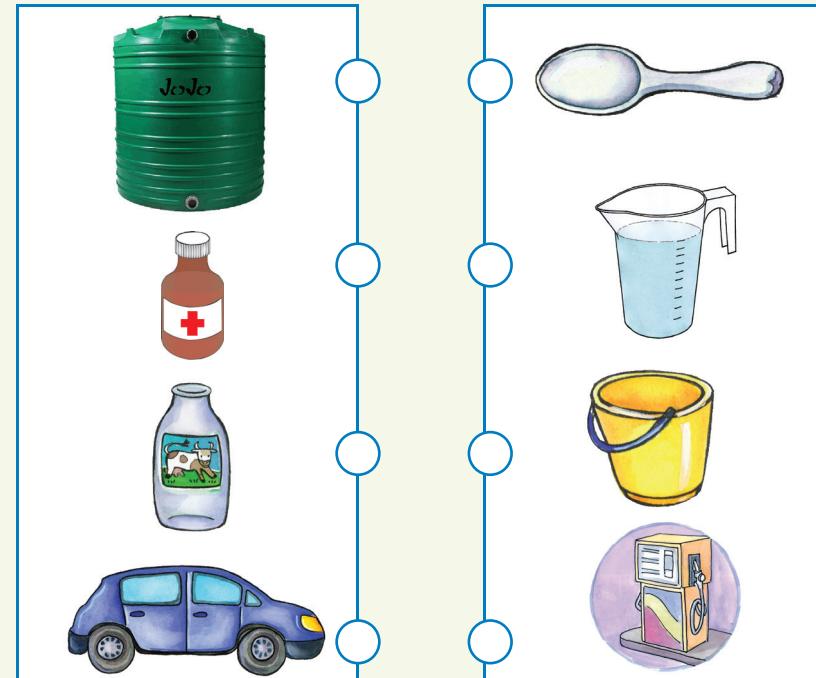


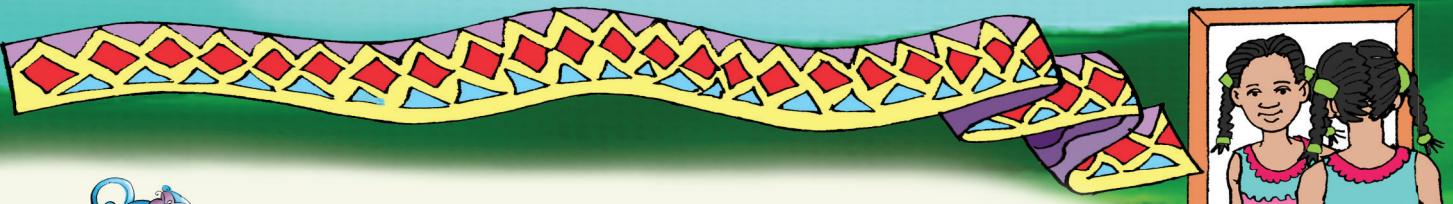
Itani thiki kha tshifaredzi (mudzio) tshi no fara zwinzhizwinzhi.



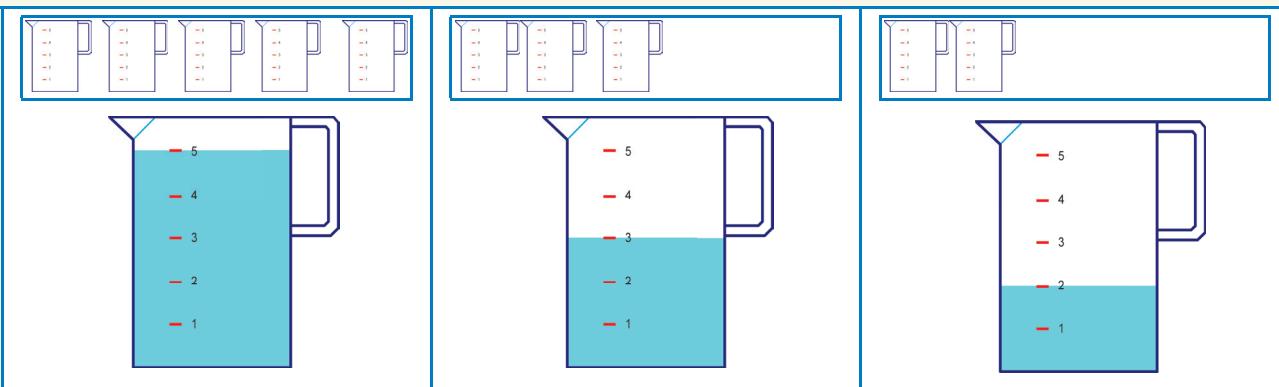
Zwifaredzi zwo ḫala kana ndi xoxoyo a zwi na tshithu? (a zwi na tshithu)

## Khaphasithi (Ndadzo)





Ni tea u shumisa khaphu t̄hanu kha u dadza dzhege. Ndi khaphu nngana nga nt̄ha dzine na tea u shumisa kha u dadza idzo dziñwe dzhege mbili? Zwi oleni.



Khalarani tshivhalo tsho tsha zwiludi.

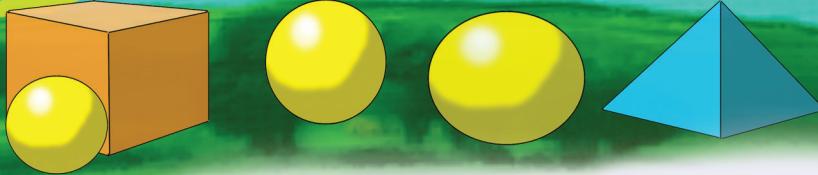
 	+	 2 =	 <input type="text"/>
 2	+	 2 =	 <input type="text"/>
 2	+	 3 =	 <input type="text"/>



Teacher:  
Sign:  
Date:



I27

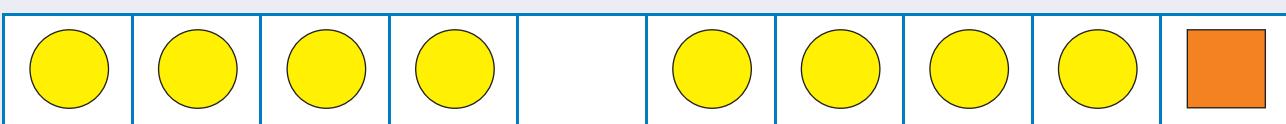
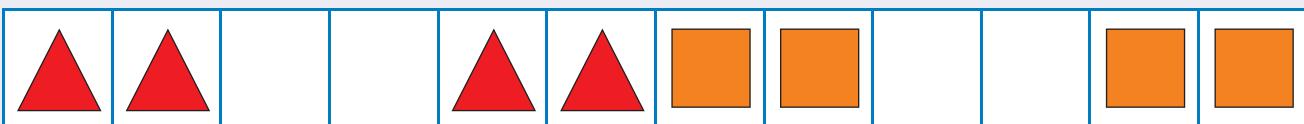
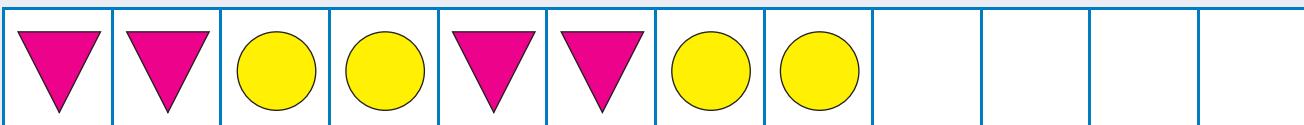
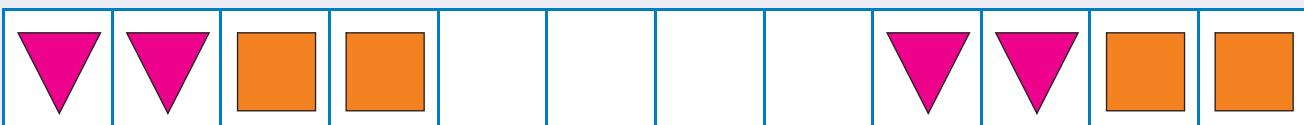
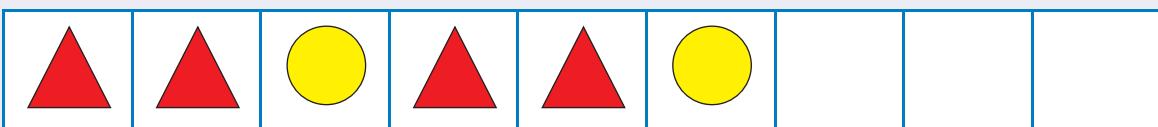


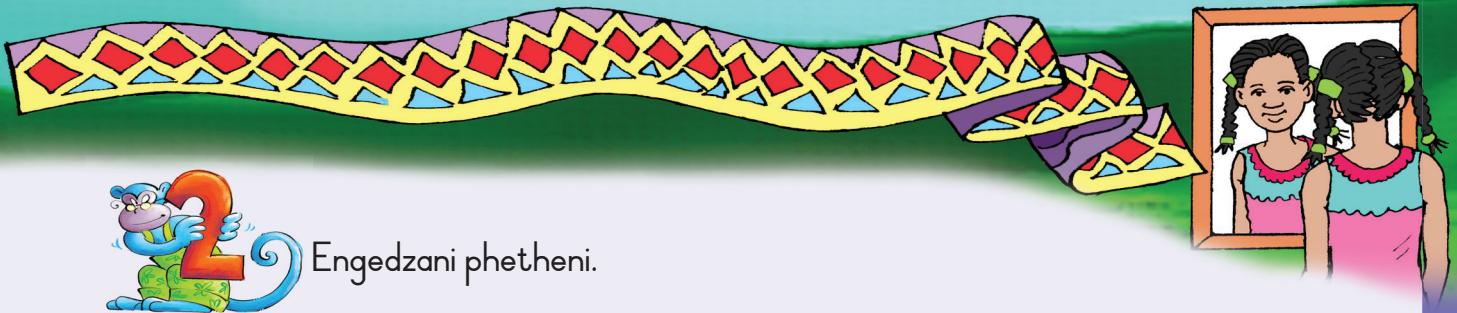
## Phetheni dza dzhometiri



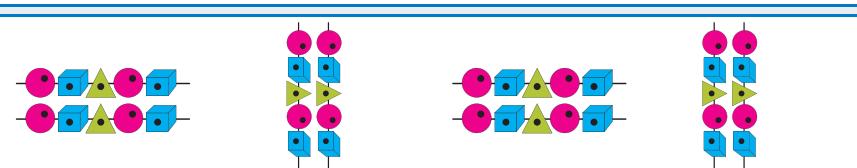
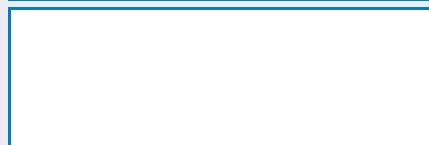
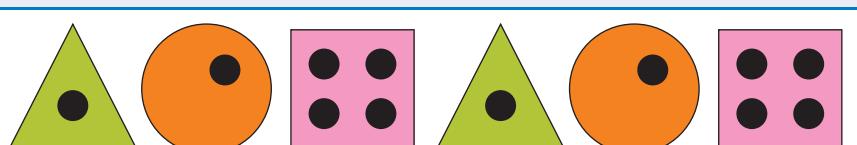
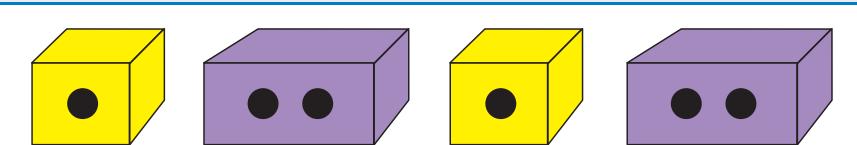
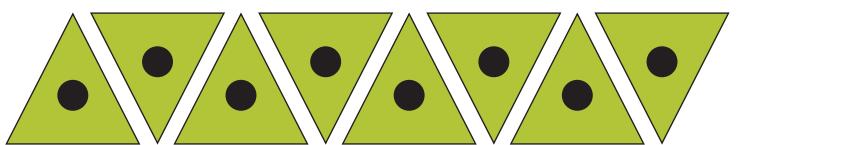
Fhedzisani phetheni.

Themo ya 4

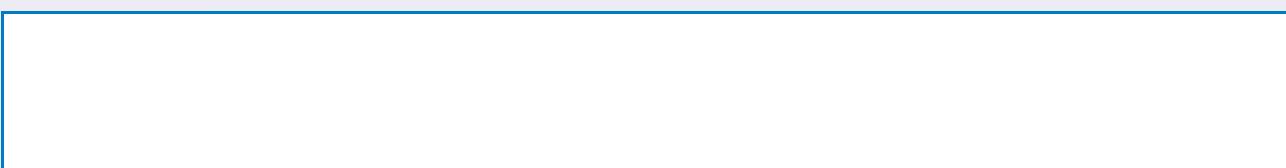




Engedzani phetheni.



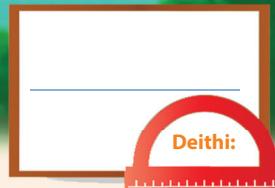
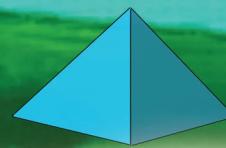
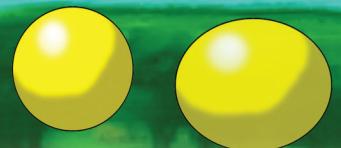
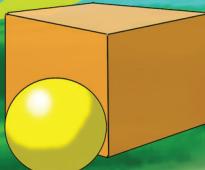
Itani phetheni dza inwi muñe ni tshi shumisa zwitendeledzi, zwikwea na thiraiengele.



Teacher:
Sign:
Date:



I28

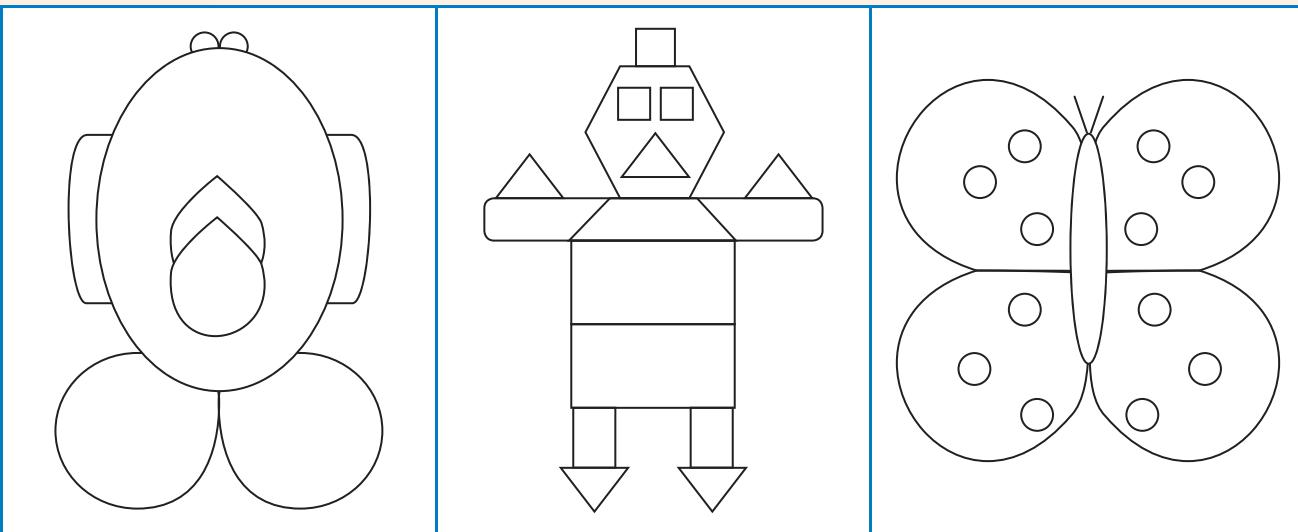


Themo ya 4

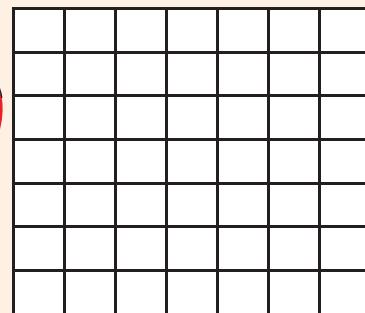
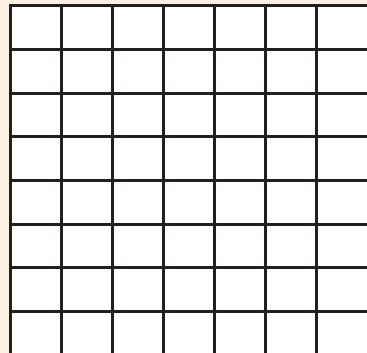
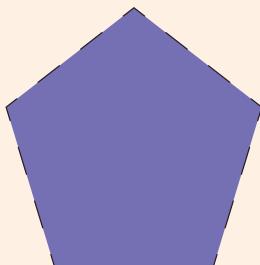
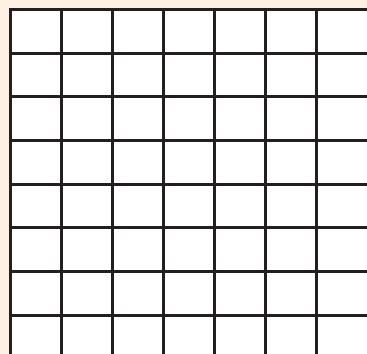
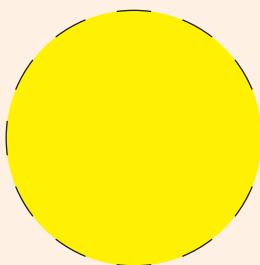
## Ndinganahuvhili



Talani mutalo wa ndinganahuvhili u no fhandula tshifanyiso tsha bva hafu mbili dzi no lingana. Khalarani hafu nthihi ya tshifanyiso tshiñwe na tshiñwe.



Kopololani zwivhumbeo, ni kone u tala mutalo wa ndinganahuvhili.



I28

0

1

2

3

4

5

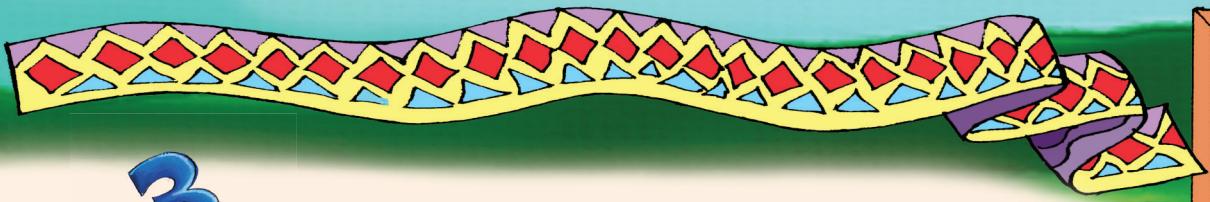
6

7

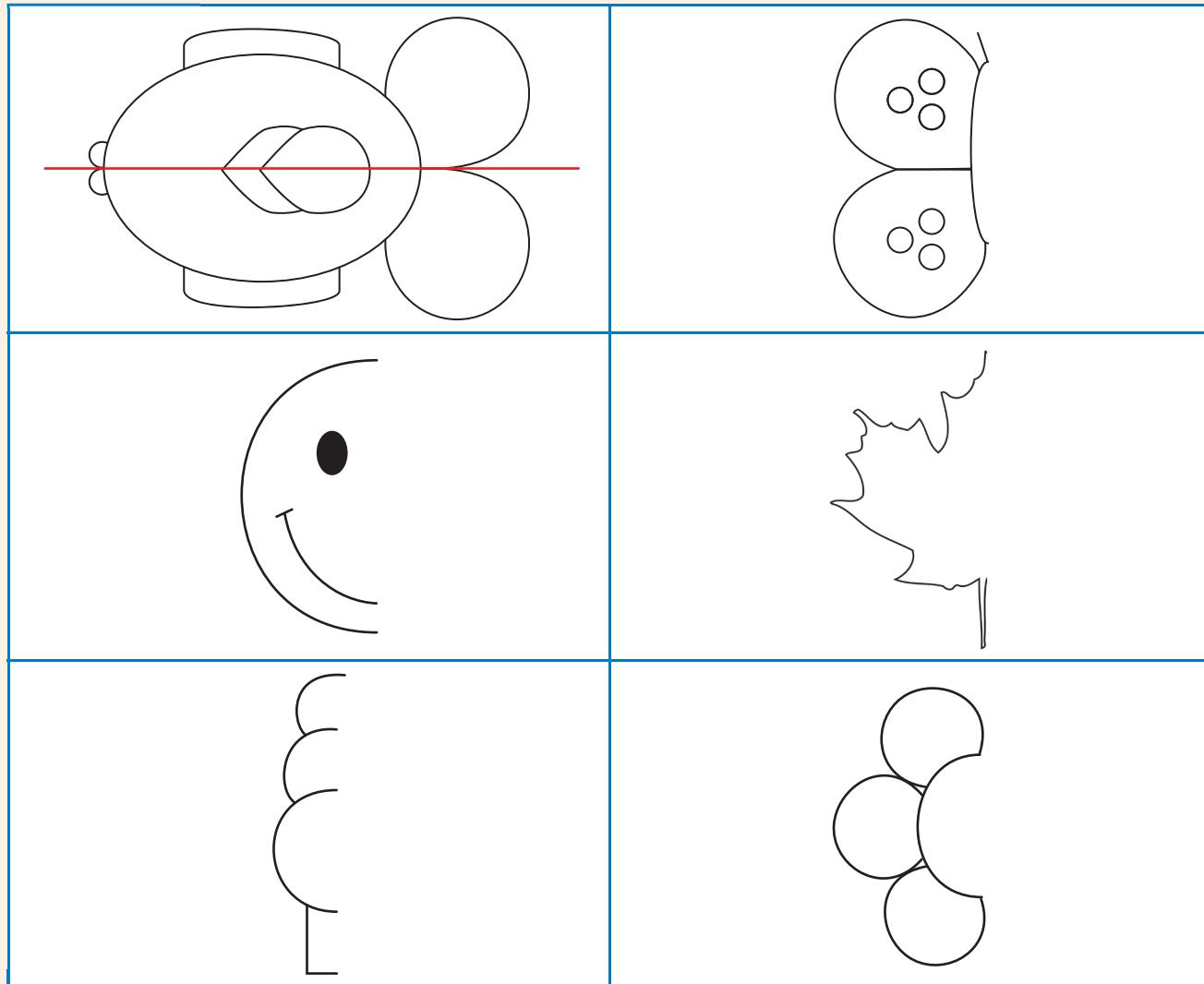
8

9

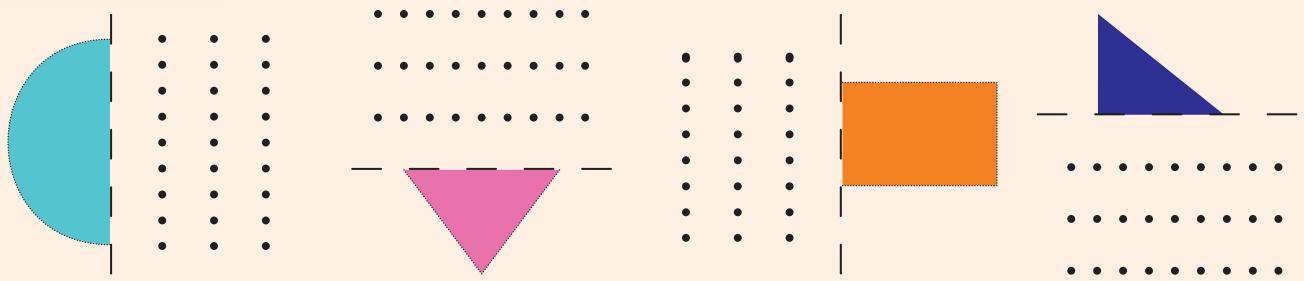
10



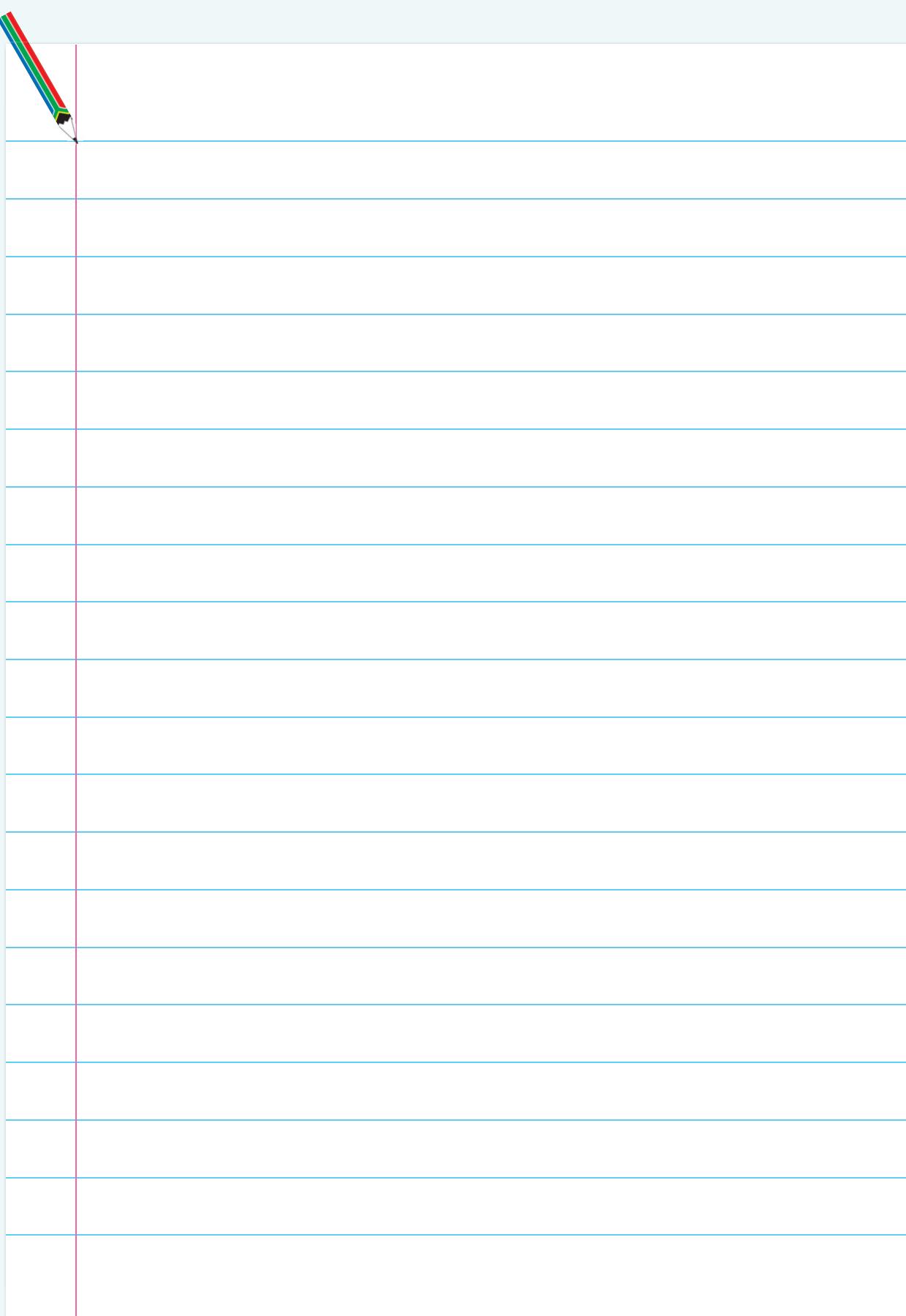
Fhedzisani tshifanyiso nga u ola ila inwe hafu kokotolo.



Olani ila inwe hafu ya tshivhumbeo.



# Notsi

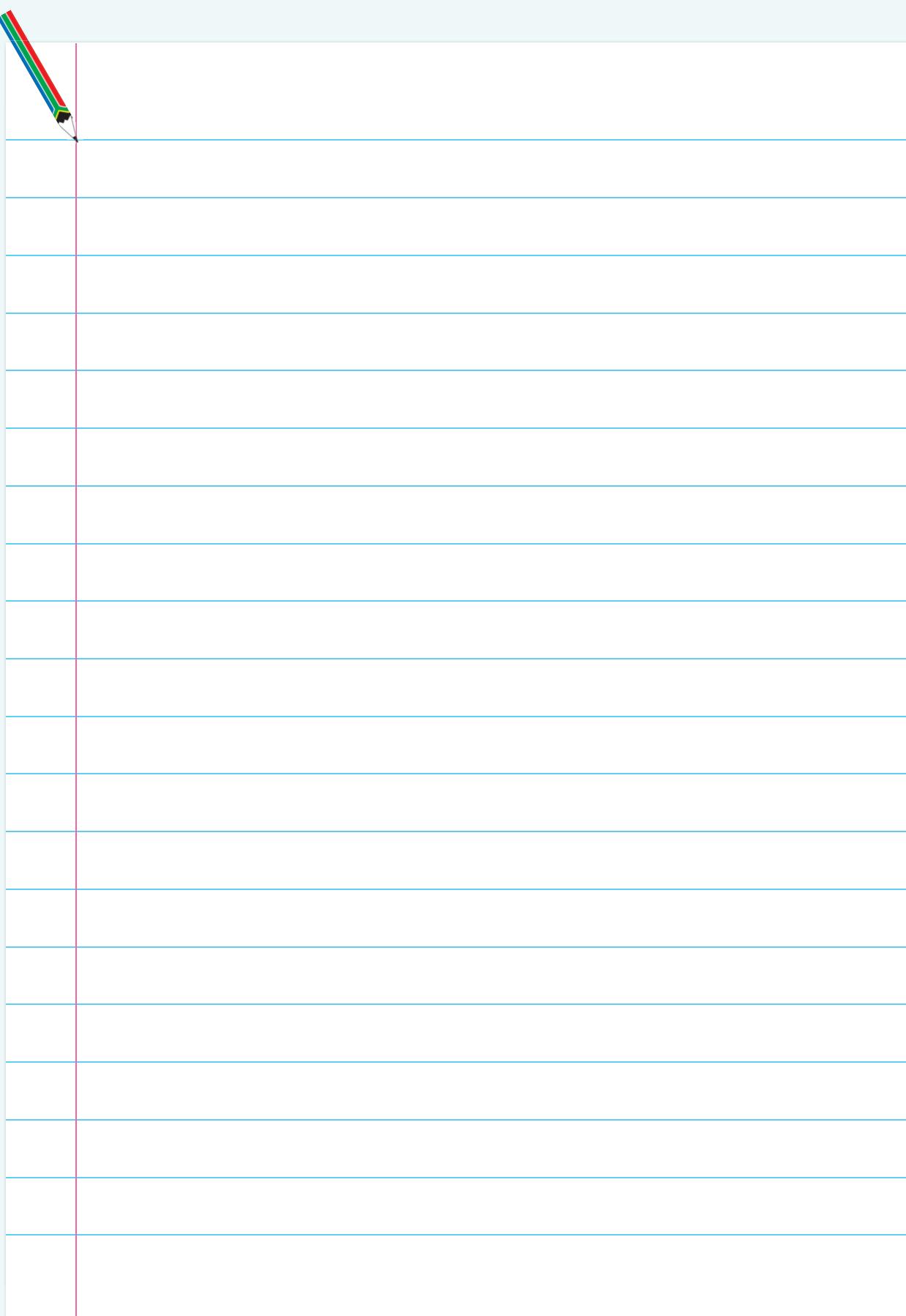


# Notsi

A blank sheet of white paper with horizontal blue lines for writing. A vertical red line is on the left side, and a vertical pink line is on the right side. At the top left corner, there is a small cluster of colored pencils: red, green, blue, and yellow.

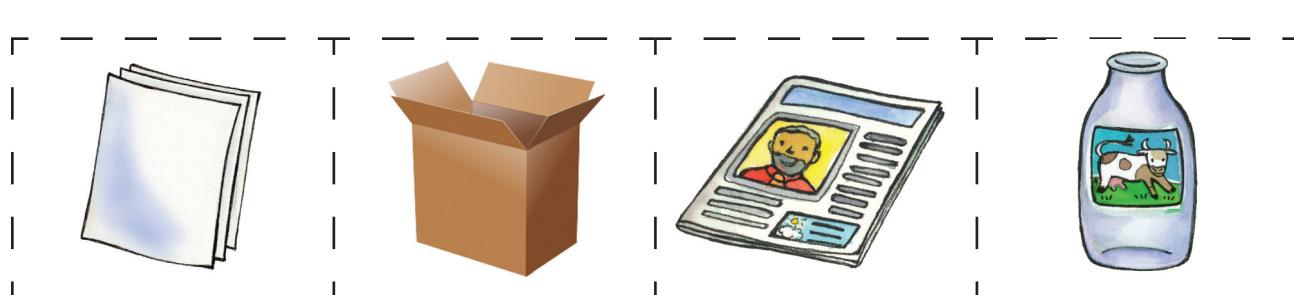
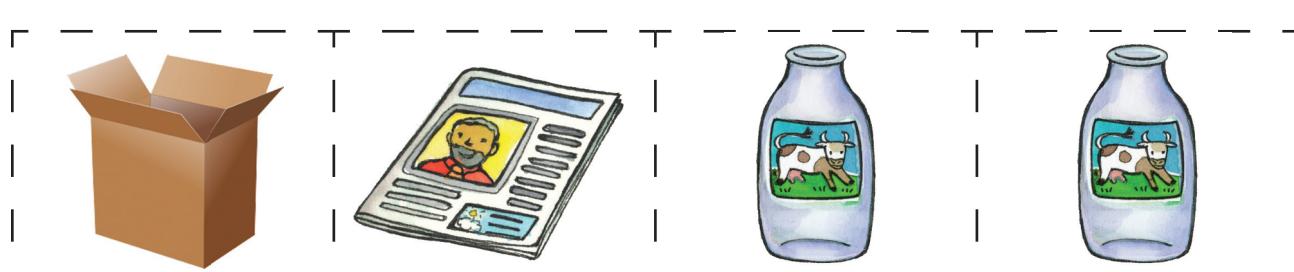
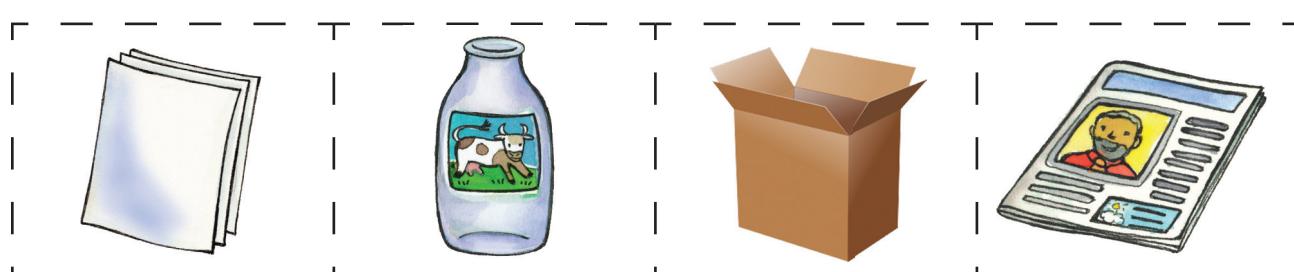
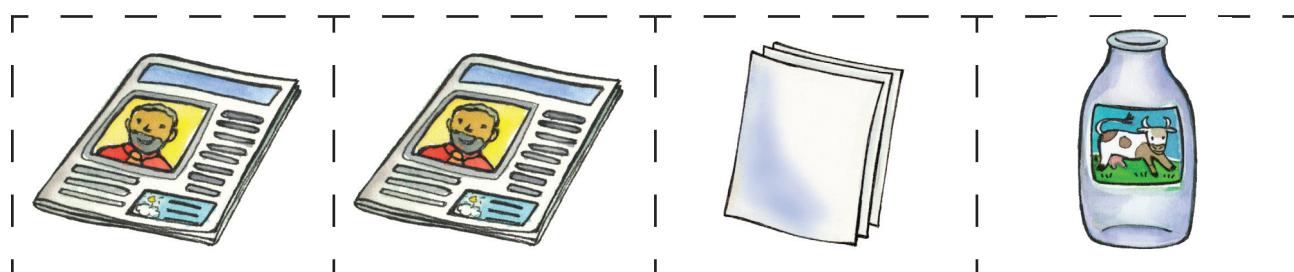
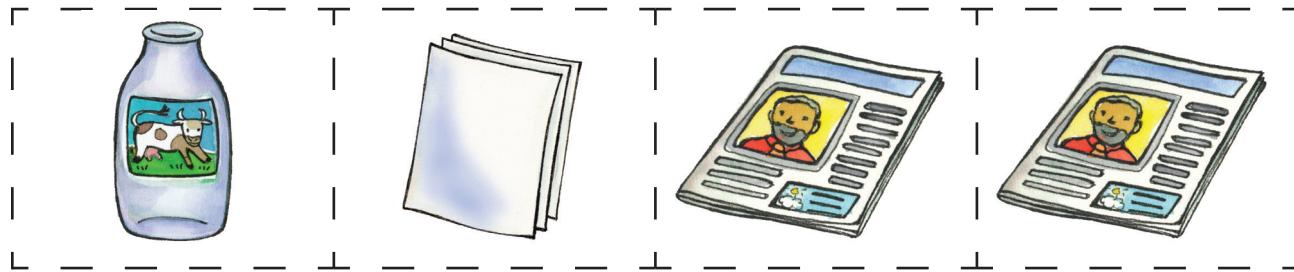


# Notsi



## Cut-out 1

Worksheet 79





## Cut out cards 2

### Worksheet 83

45	50	40	40	30	35
-	-	-	-	-	-

### Worksheet 84

70	65	75	80	70	60
-	-	-	-	-	-

### Worksheet 93

34	46	40	44	36	50	32
-	-	-	-	-	-	-
42	48	38				
-	-	-				
62	74	66	68	64	76	80
-	-	-	-	-	-	-
						72
						78

### Worksheet 115

72	78	82	84	86	74	80
-	-	-	-	-	-	-
76	88	90				
-	-	-				

### Worksheet 119

62	72	64	74	86	66	78	80	68
-	-	-	-	-	-	-	-	-
82	94	86	90	84	96	100		
-	-	-	-	-	-	-		
92	98	88						
-	-	-						

