

MBALONGA TSIVENDA

Bugu ya 2
Themo dza
3 & 4

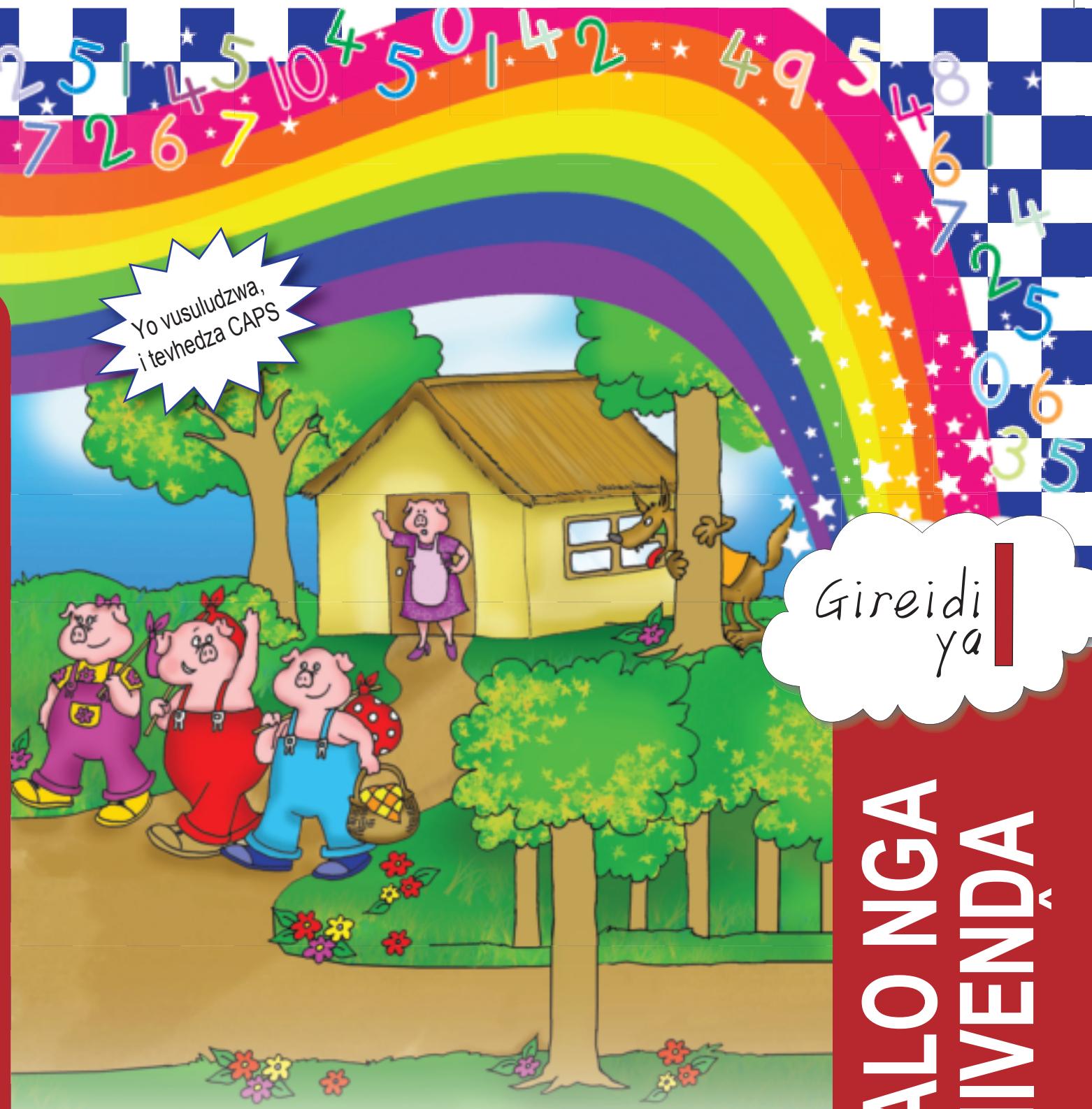
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Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

MBALO NGA TSHIVENDA – Gireidi ya | Bugu ya 2



ISBN 978-1-4315-0134-2

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 di do da.

Talukanyani hune ra bva hone.	Ri songo dovhā vhukhakhi ha mulovha.	Mulayotewa washu u ri thusa uri ri elekange nga vhumatsheho ha khw̄ne ha rothe khathihi na u vhu fh̄ta.
-------------------------------	--------------------------------------	---

Riñe, vhatu vha Afrika Tshipembe;
Ri dzhieha n̄tha u shaea ha vhulamukangi kha tshifhinga tsho fhelaho;
Ri ḡonihfa havho vhe vha tambulela vhulamukangi na mbofholowo kha shango ḡashu;
Ri ḡonihfa havho vhe vha shuma vha tshi itela u fh̄ta na u bveledzisa shango ḡashu; na

U tenda uri Afrika Tshipembe ndi ja vhothe vhané 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 muñwe na muñwe; na

Fhađa mbumbano na demokirasi zwa Afrika Tshipembe uri li kone u vha fhethu ho teaho sa muvhuso wo diimisaho kha muña wa tshaka.

Shumisani pfanelo dzanu sa mudzulapo wa Afrika Tshipembe ni dovhe ni vhe na vhudifhinduleli ha u tsireledza pfanelo dia vhañwe.	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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**MATHEMATICS IN TSIVENDA
GRADE 1 – BOOK 2
TERMS 3 & 4
ISBN 978-1-4315-0134-2**

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7th Edition

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Vho Angie Mutshekga
Minista wa Muhasho wa
Pfunzo ya Muteo



Vho Enver Surty
Muthusaminista wa
Pfunzo ya Muteo

Bugu idzi dzo iwalelwva 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 mishumo dza Rainbow ndi tshipida tsha zwe Muhasho wa Pfunzo ya Muteo wa ita zwa u khwinisa 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 lambedzwa lu sa vhudzisi nga Muhasho wa Gwama ja Lushaka.

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

Ri na fulufhelo la uri bugu idzi dzi do thusa vhadededzi (vhagudisi) mushumoni wavho wa u funza wa dūvha linwe na linwe khathihi na u vha na vhutanzi uri vha khunyeledze khārikhulamu yothe. Ro ita nga vhuronwane uri ri sumbedze ndila 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 do diphina nga u shumisa bugu idzi zwenezwi vha tshi khou aluwa na u guđa, khathihi na uri na vhonevho, sa mudededzi, vha do diphina na vhana avha.

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



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



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Gireidi
ya



NGA TSHIVENDA

Bugu iyi ndi ya:

TSHIVENDA

Bugu ya

2



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

65



Themo ya 3

Pfesesani nomboro II

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



thihi

I I

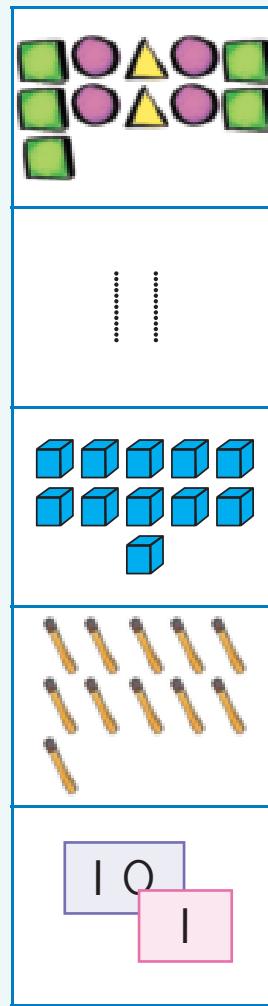
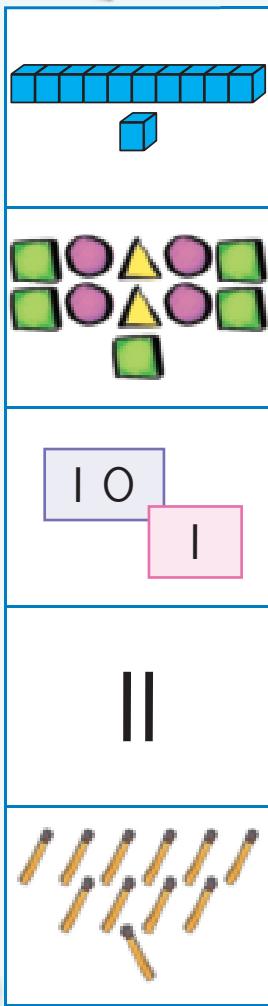


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2 2



Livhanyani zwifanyiso.

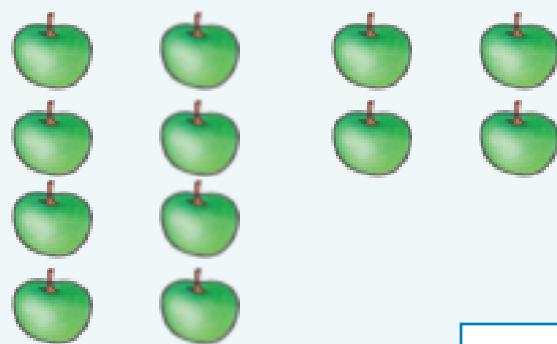


Tangedzelani zwithu.



Ho sala malegere mangana?

Tangedzelani maapula a 10 fhedzi.



Ho sala maapula mangana?

2

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.

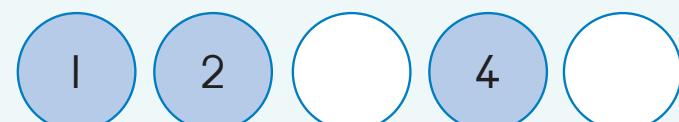
3	5	4
4	5	
4		2



Olaní 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?



66



Themo ya 3

Pfesesani nomboro 12

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



raru

3 3

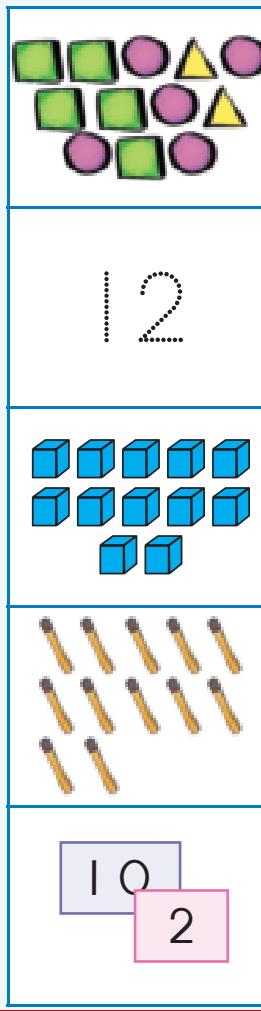
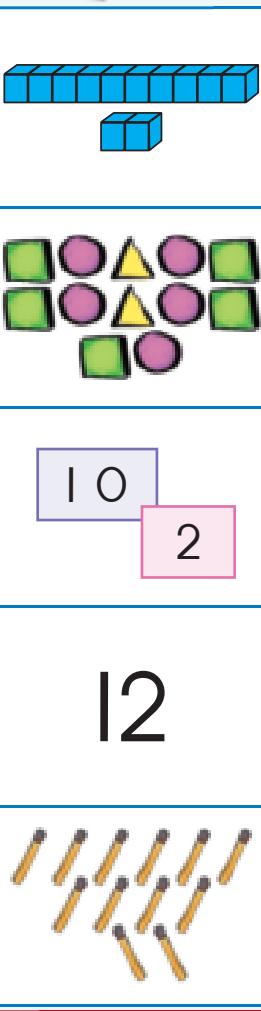


ina

4 4



Livhanyani zwifanyiso.



Tangedzelani zwithu.



Ho sala zwienda zwingana?

Tangedzelani khambalwanzhe
dza 12 fhedzi.



Ho sala khambalwanzhe nngana?

4

0

1

2

3

4

5

6

7

8

9

10



Tovhedzelani nomboro.

	2		2		2		2
--	---	--	---	--	---	--	---

fumimbili

	2		2		2		2
--	---	--	---	--	---	--	---

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

	7	6
4		4
3	2	
12	12	12



Olaní zwithu zwa 12.



Nwalani nomboro dzi no
khou ṫahela.

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

3			5			
8				11		



Vhalani
zwithu.



--



--



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

		fumimbili
	12	fumimbili
		12
	fumimbili	



Ndi nomboro ifhio i re ṫhukhu
kha 12 nga thihi?

Ndi nomboro ifhio i re
khulwane kha 12 nga thihi?



Teacher:
Sign:
Date:





Pfesesani nomboro 13

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



thanu

5 5



rathi

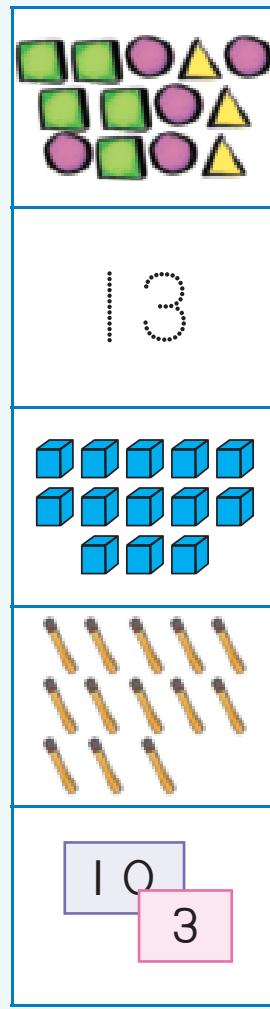
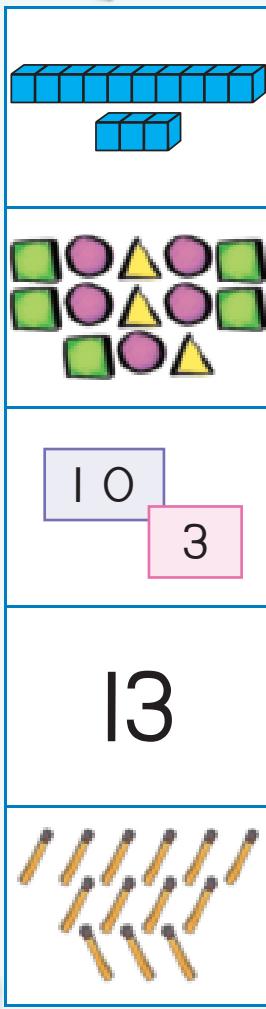
6 6



Livhanyani zwifanyiso.



Tangedzelani zwithu.

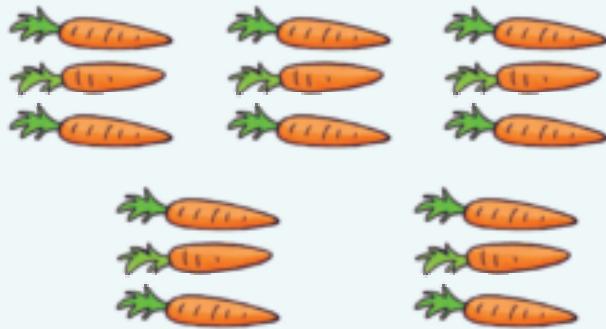


Tangedzelani zwimange zwa 10 fhedzi.



Ho sala zwimange zwingana?

Tangedzelani kherotsi dza 13 fhedzi.



Ho sala kherotsi nngana?



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



Olaní 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.



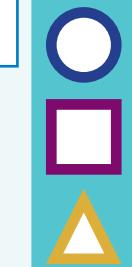
Fhedzisani thebuļu. Rou iñwe na
iñwe i na tshifanyiso, nomboro na ipfi lo
imelaho nomboro iyo.

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



Themo ya 3

Pfesesani nomboro 14

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.



sumbe

7 7



malo

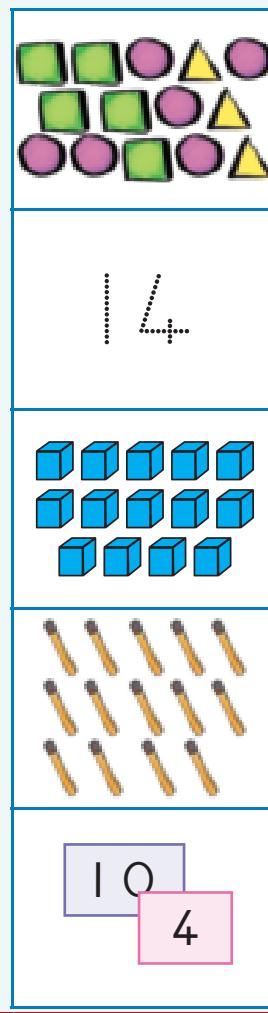
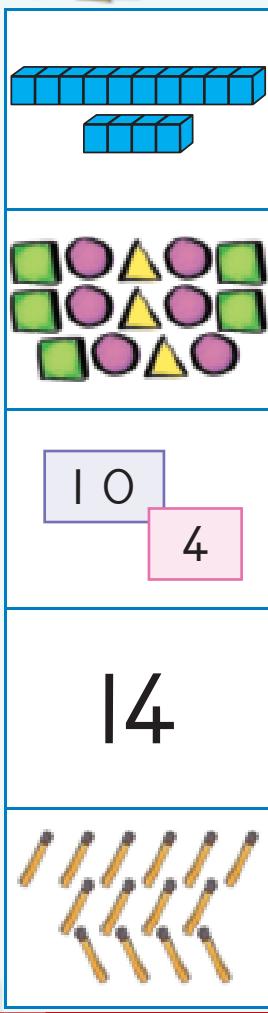
8 8



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



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



Olani zwithu zwa 14.

Zwino zwi oleni nga ndila iñwevho.



Vhalani zwithu.



Nwalani nomboro dzi no
khou t̄ahela.



3

5

7



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?

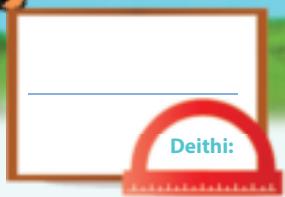
Ndi nomboro ifhio i re
khulwane kha 14 nga thihi?

Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

69



Themo ya 3

Pfesesani nomboro 15

Mvusuludzo:

Itani ndowendowe ya u ḥwala nomboro.



tahe

q q

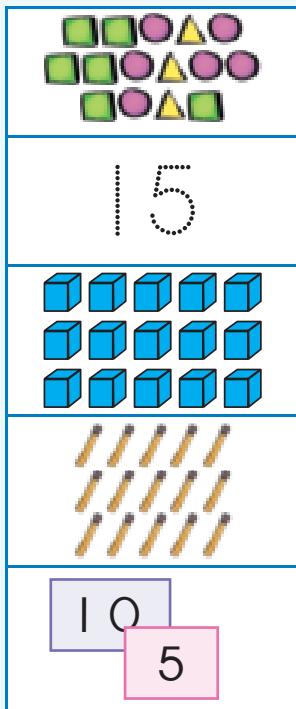
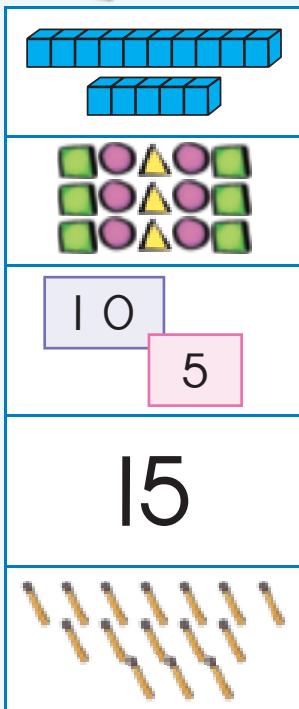


fumi

10 10

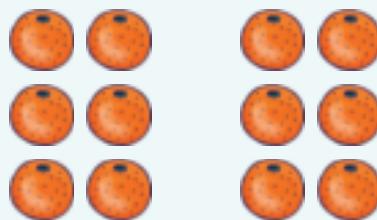


Livhanyani zwifanyiso.



Tangedzelani zwithu.

Tangedzelani maswiri a 10 fhedzi.



Ho sala maswiri mangana?

Tangedzelani ḥaledzi dza 15 fhedzi.



Ho sala ḥaledzi nngana?



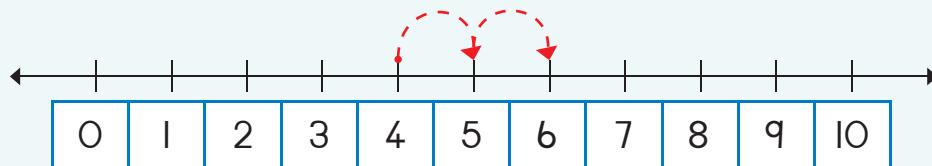
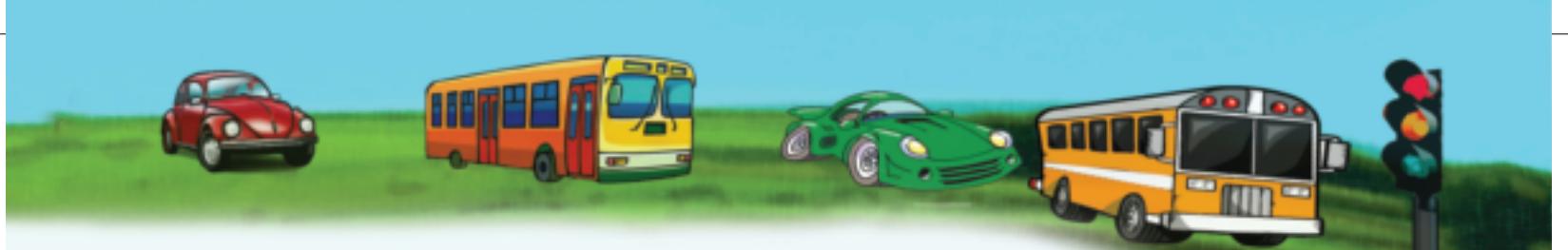
ᬁwalani phindulo.



$7 + 2 =$



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.



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?

70



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

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

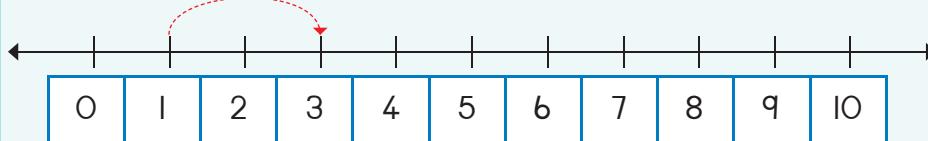


Kha ri vhale ri tshi ya murahu:

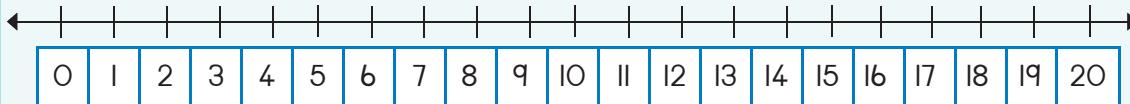
8	...	7	6	5	4
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
- <input type="text"/>			= <input type="text"/>		



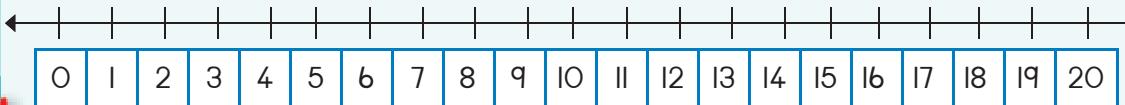
Nwalani phindulo.



$1 + 2 = \boxed{}$



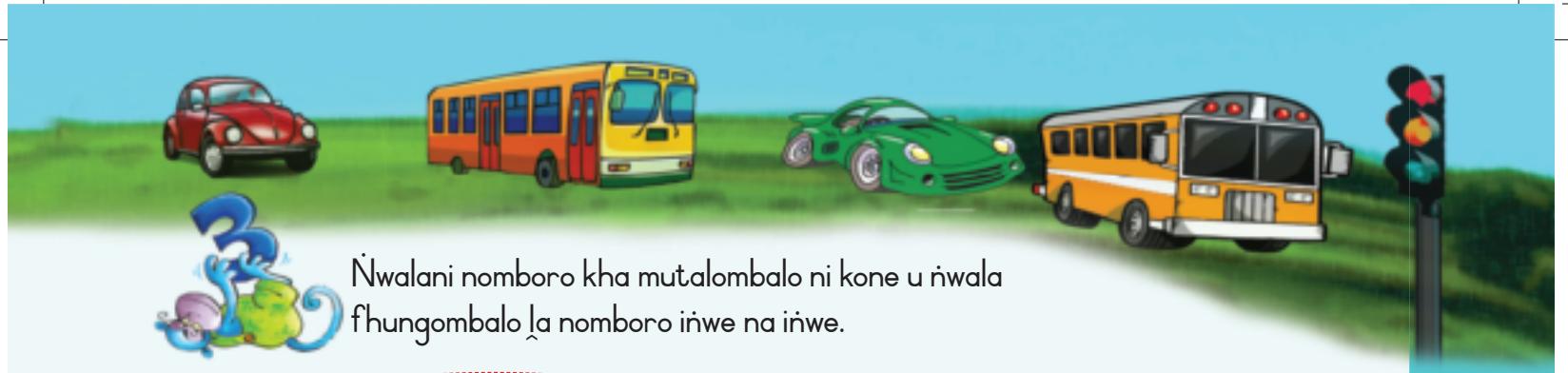
$13 + 2 = \boxed{}$



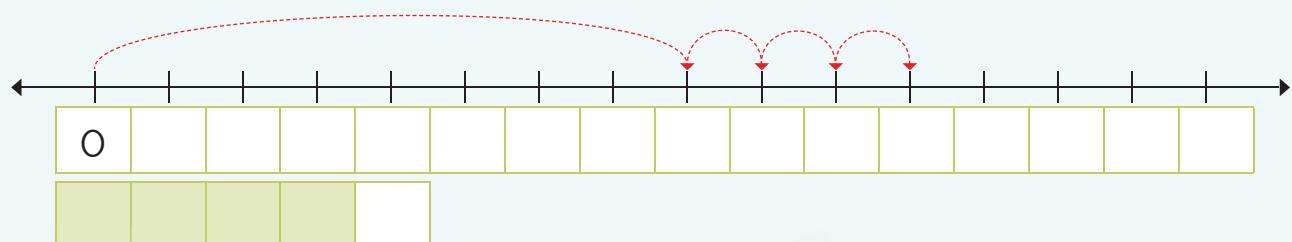
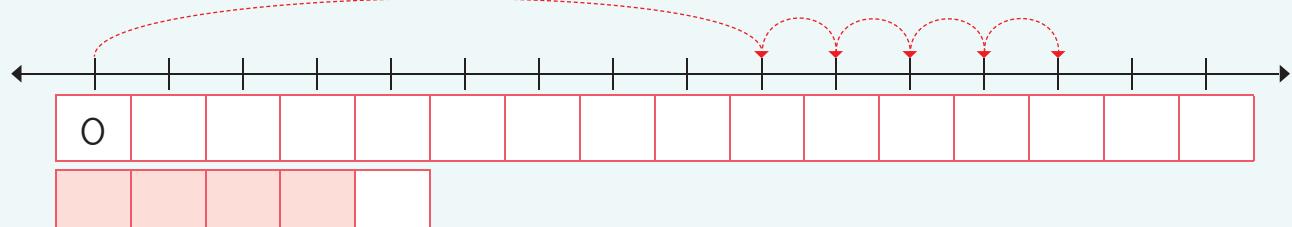
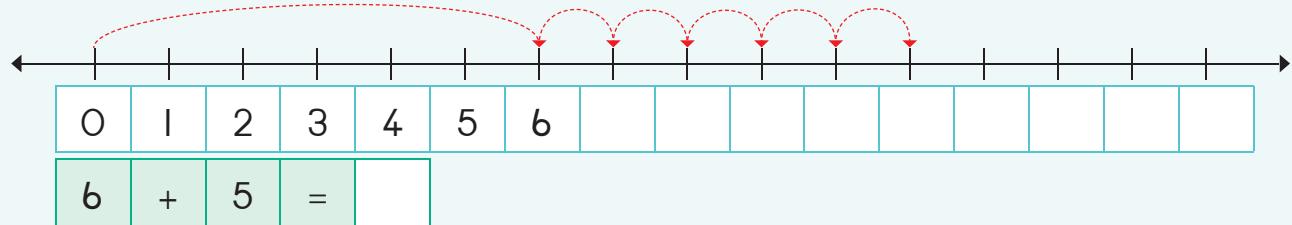
$15 + 2 = \boxed{}$



0 | 2 3 4 5 6 7 8 9 10



Nwalani nomboro kha mutalombalo ni kone u nwala fhungombalo la nomboro iñwe na iñwe.



Vhalelani nga 2.

3	5
4	
2	



Nwalani nomboro.

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

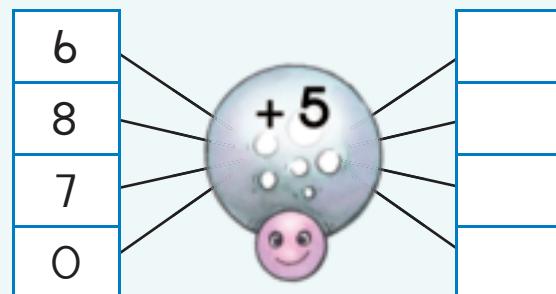
7

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

Ndi ðo vha ndi miñwaha ya _____.



Thusani buvhi u fhedzisa mbalo.



7I



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

Mvusuludzo:

Itani ndowendowe ya u nwalala dzinambalo.

7

sumbe



Nwalani phindulo.

$3 + 3 = \square$



$0 + 5 = \square$

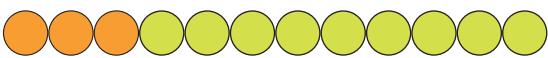


$3 + 2 + 1 = \square$



Khalarani ni tshi sumbedza zwi tevhelaho.

$3 + 9$



$4 + 8$



$5 + 7$



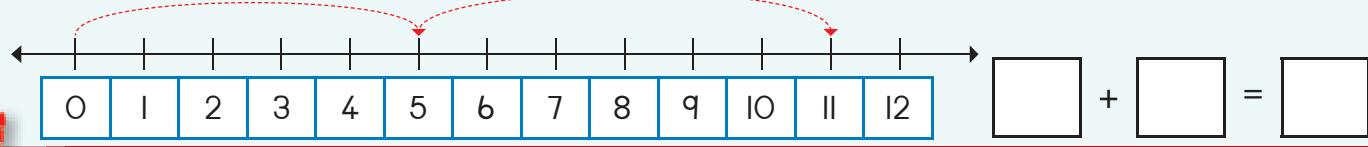
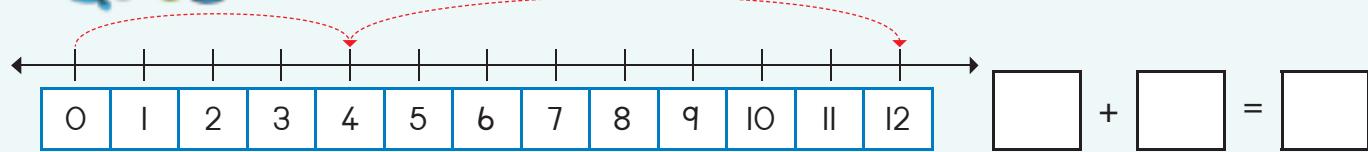
$6 + 6$



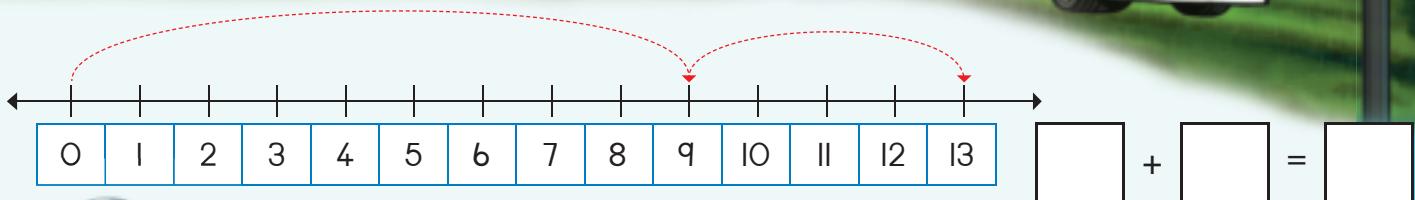
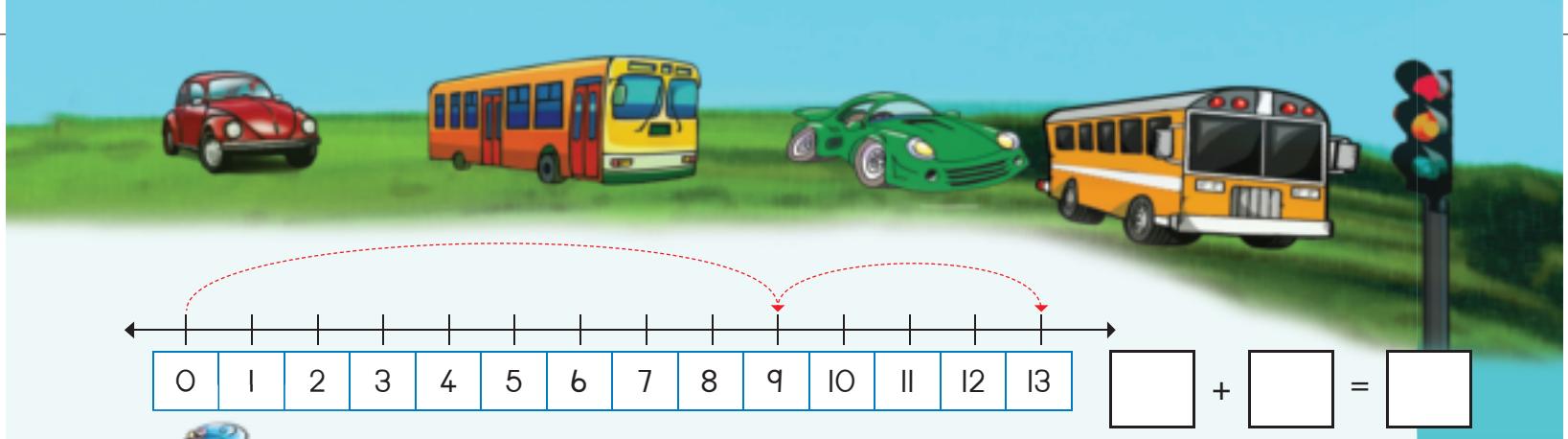
$7 + 5$



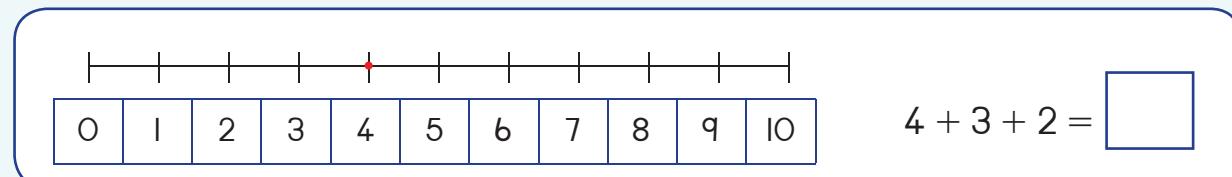
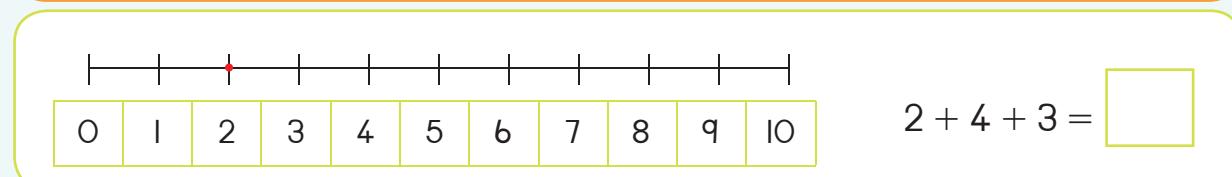
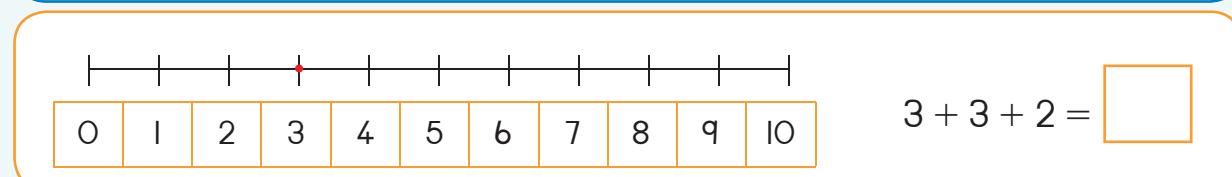
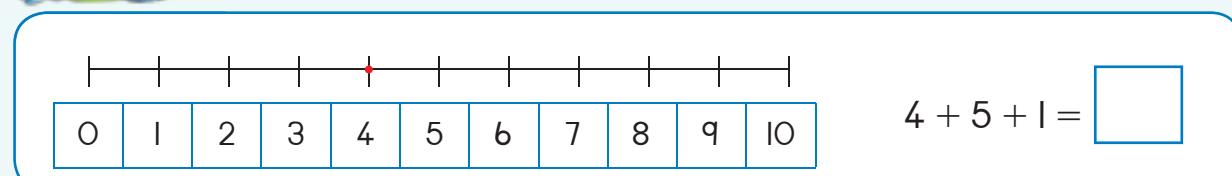
Nwalani mbalo ya:



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^{lu} ya 5 ngeno khonani yanga e na ya 8. Ri na mimavhu^{lu} mingana yo ታngana yo^{the}?

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

Ndo wana maluvha a 9 a u fha mudededzi washu. Khonani yanga a wana a 6. Ri na maluvha mangana o ቃngana o^{the}?

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





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

Mvusuludzo:

Itani ndowendowe ya u nwalala dzinambalo.

8

malo

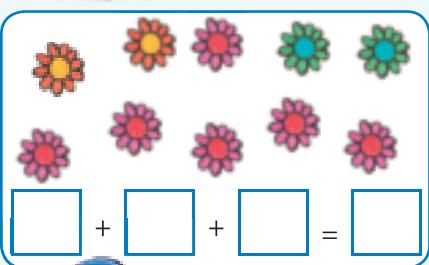


Nwalani phindulo.

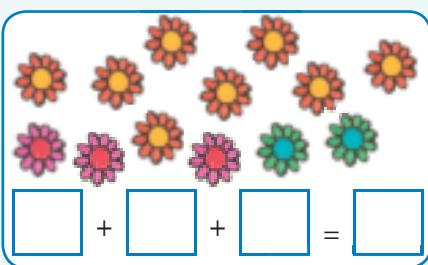
$0 + 2 =$		$2 + 2 =$		$4 + 2 =$		$6 + 2 =$		$8 + 2 =$	
$10 + 2 =$		$12 + 2 =$		$14 + 2 =$		$16 + 2 =$		$18 + 2 =$	



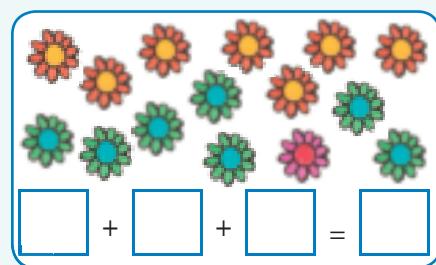
Shumisani maluvha a mivhala yo fhambananaho kha u ita mafhungombalo
a inwi muṇe.



Thusani buvhi u fhedzisa
mbalo.



Hu na mbilu nngana?



12
14
11
q





Nwalani mbalo yanu.

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



16

0

1

2

3

4

5

6

7

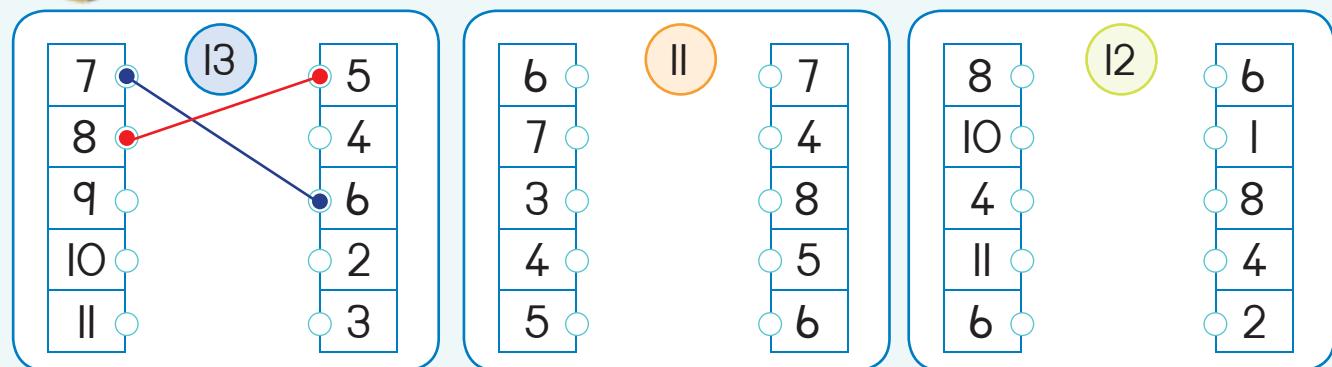
8

9

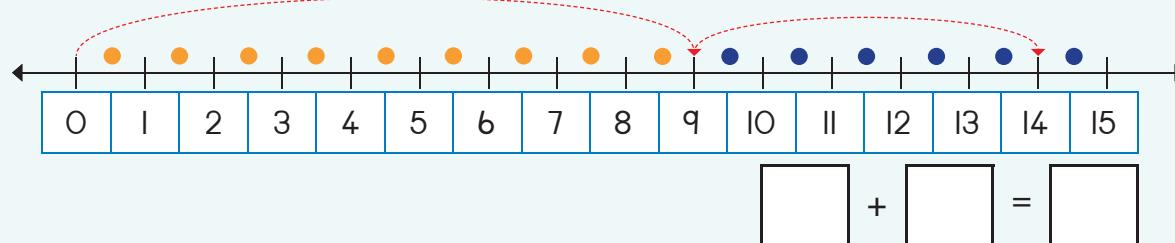
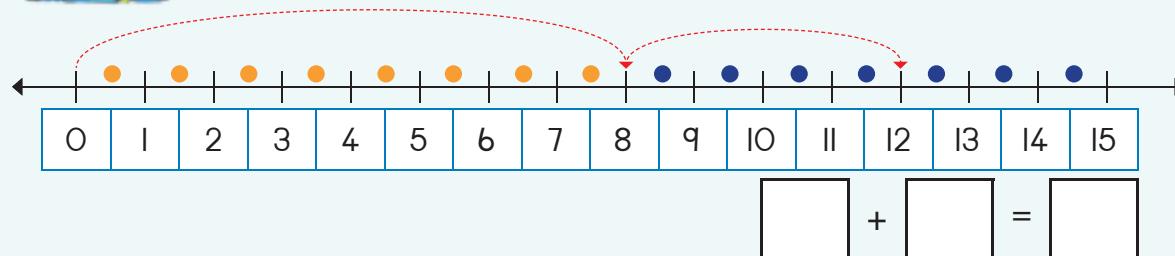
10



Livhanyani phere dza nomboro ni tshi sika nomboro dici tevhelaho.



Nwalani fhungombalo ja:



Mvusuludzo:

Mvusuludzo: Kha^larani 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:



II I2 I3 I4 I5 I6 I7 I8 I9 20

73



Mut^hanganyo na mut^huso – u fhat^h na u padukanya

Mvusuludzo:

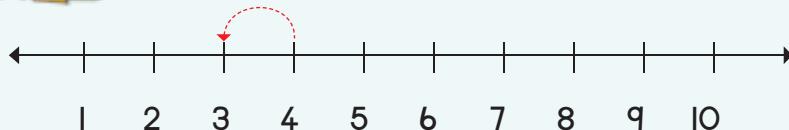
Itani ndowendowe ya u nwalala dzinambalo.

q

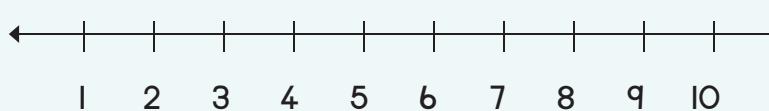
tahē



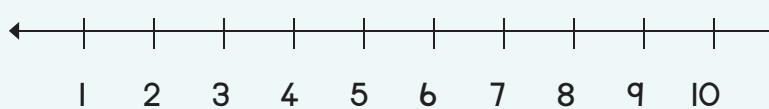
Nwalani phindulo.



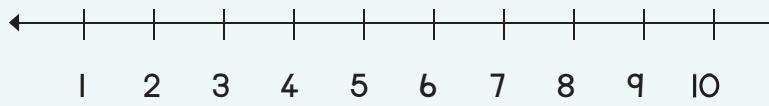
$$4 - 1 =$$



$$5 - 3 =$$



$$4 - 2 =$$



$$5 - 2 =$$

Thusani buvhi u fhedzisa
mbalo.

Hu na mbilu nngana?

7
8
10
5

-5



Nwalani mbalo yanu.

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





Rekanyani zwi tevhelaho.

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

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

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

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

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

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

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

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

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

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

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

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



Nwalani phindulo ni khalare na u ola.

$8 + 6 = \boxed{}$ Ri nga kha di i sumbedza sa: $(8 + 2) + 4 = \boxed{} \rightarrow 10 + 4 = \boxed{}$	$15 - 7 = \boxed{}$ Ri nga kha di i sumbedza sa: $(15 - 5) - 2 = \boxed{} \rightarrow 10 - 2 = \boxed{}$
$9 + 4 = \boxed{}$ Ri nga kha di i sumbedza sa: $(9 + 1) + 3 = \boxed{} \rightarrow \boxed{} + \boxed{} = \boxed{}$	$14 - 5 = \boxed{}$ Ri nga kha di i sumbedza sa: $(\quad - \quad) - 1 = \boxed{} \rightarrow 10 - 1 = \boxed{}$

Mvusuludzo:

Itani ndowendowe ya u nwalla dzinambalo.

10

fumi



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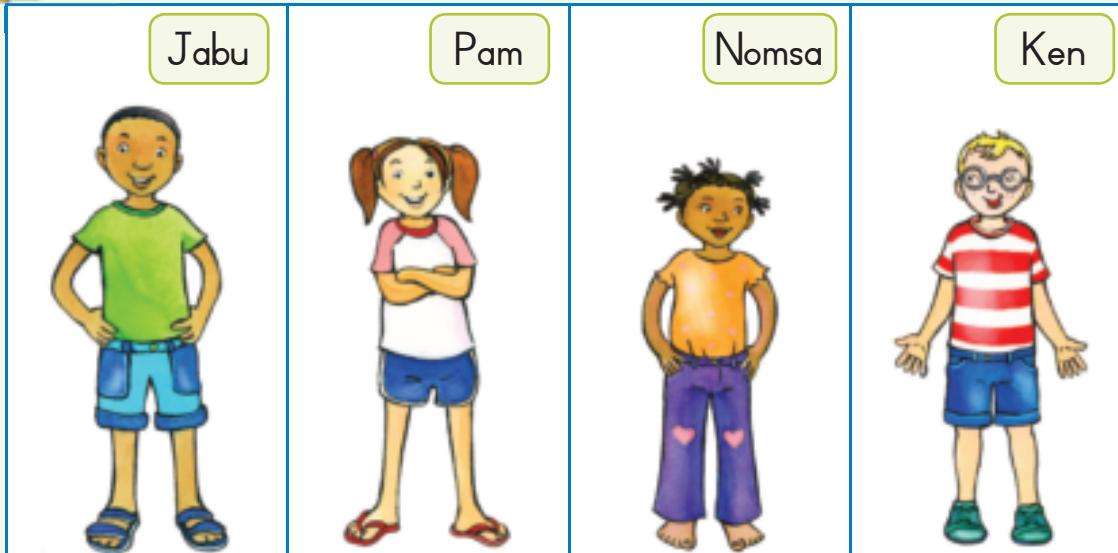


Themo ya 3



Vhulapfu (vhun^tha)

Lavhelesani tshifanyiso ni fhindule mbudziso.



Ndi nnyi mulapfusa?

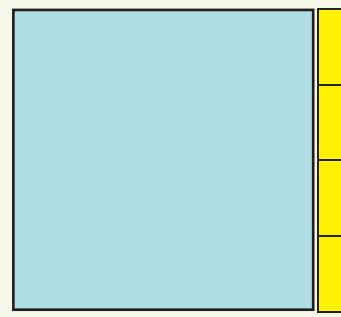
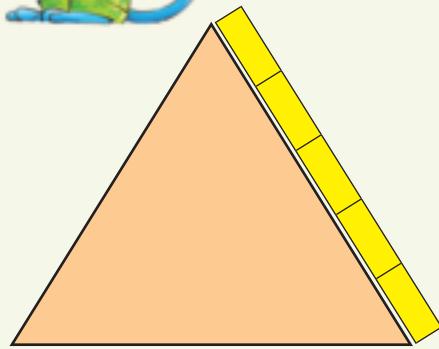
Ndi nnyi a re mutukana mupfufhisa?

Ndi nnyi mupfufhisa?

Ndi nnyi a re musidzana mulapfusa?



Vhurumbu ha zwivhumbeo izwi ndi vhulapfu ha zwibogisi zwingana.





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



Vhuphara ndi zwibuloko zwa ____.



Vhuphara ndi zwibuloko zwa ____.

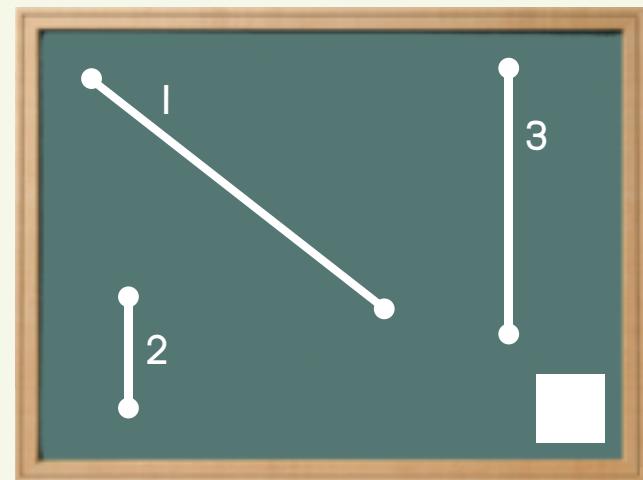
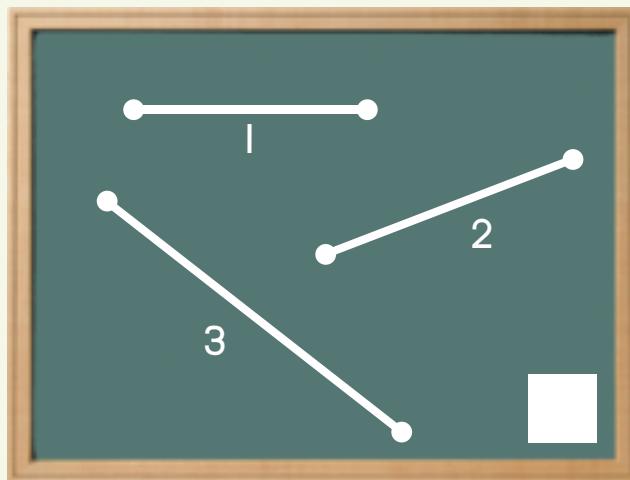


Vhulapfu ndi zwibuloko zwa ____.



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:



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Tshelede na tshintshi

Themo ya 3

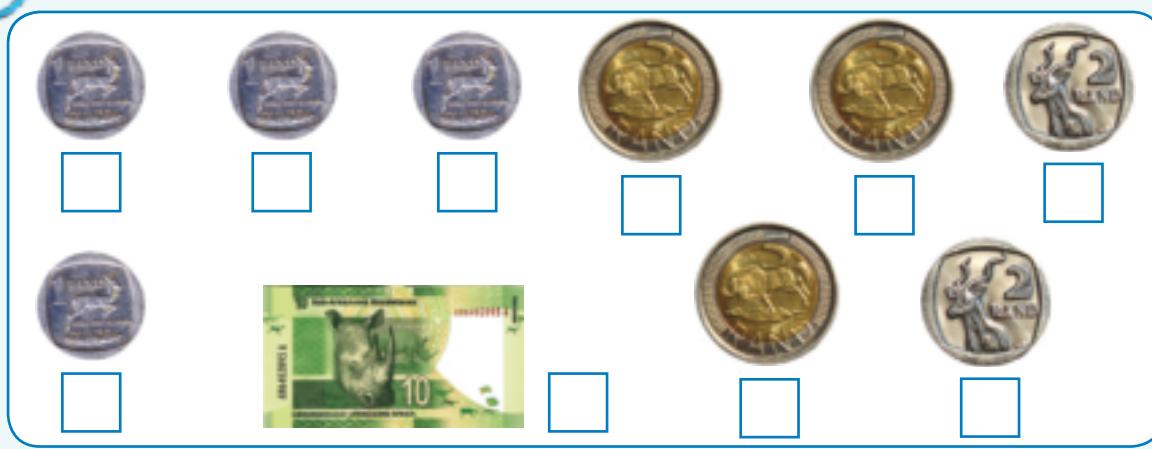
Itani thiki kha tshelede i re khulwanesa kha rou inwe na inwe.



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

Deithi:



Rekanyani zwi tevhelaho.

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



Rekanyani zwi tevhelaho.

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

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



Fhungudzani nga R2.

RII		R4	
RI2		R6	
RIO		R8	



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Themo ya 3



Olani dzikhoini ni ite:

R11	
RI2	
RI3	
RI4	



Itani thiki kha phindulo yone.

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



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



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



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



Rekanyani zwi tevhelaho.

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

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

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

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

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

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





Rekanyani zwi tehelaho.

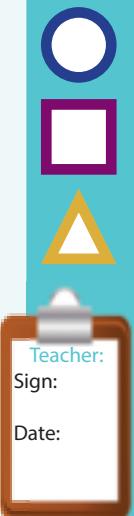
Ndi na R15 Nda renga nga:	Ndo salelwa nga vhugai?
R2 na R4 =	R9
R8 na R4 =	
R12 na R2 =	
R5 na R5 =	
R8 na R7 =	
R10 na R2 =	
R8 na R2 =	
R6 na R2 =	
R4 na R2 =	
R2 na R2 =	
R9 na R6 =	
R10 na R2 =	



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







77



Tshelede: Mu \hat{t} anganyo na mu \hat{t} uso

Rekanyani zwi tevhelaho.

Themo ya 3

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 =	

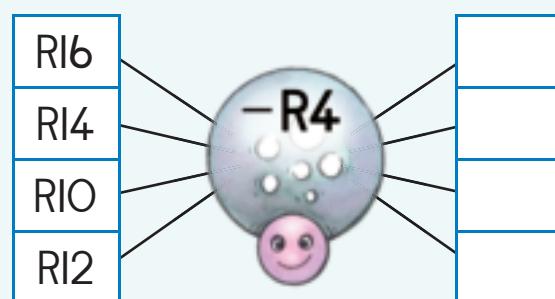
RIO - R5 =	
RI5 - R2 =	
RI6 - R6 =	
RI4 - R4 =	



Thusani buvhi u fhedzisa mbalo dzothé.



Fhungudzani nga R2.



R4 - R2 =	
-----------	--

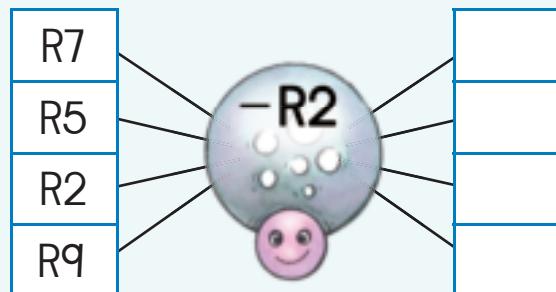


R7 - R2 =	
-----------	--





Thusani buvhi u shuma mbalo dzot̄he dza mutuso.



Tandululani zwi tevhelaho.

No vha ni na RI2. Mme aṇu vha ni fha R5.
Ni na vhugai zwino?

Ni na RI9. Na renga legere la R8.
No salelwa nga vhugai?



Ndo vhulunga vhugai?



Sumbedzani mbalo kha mutalombalo ni rekanye phindulo.



Teacher: _____
Sign: _____
Date: _____



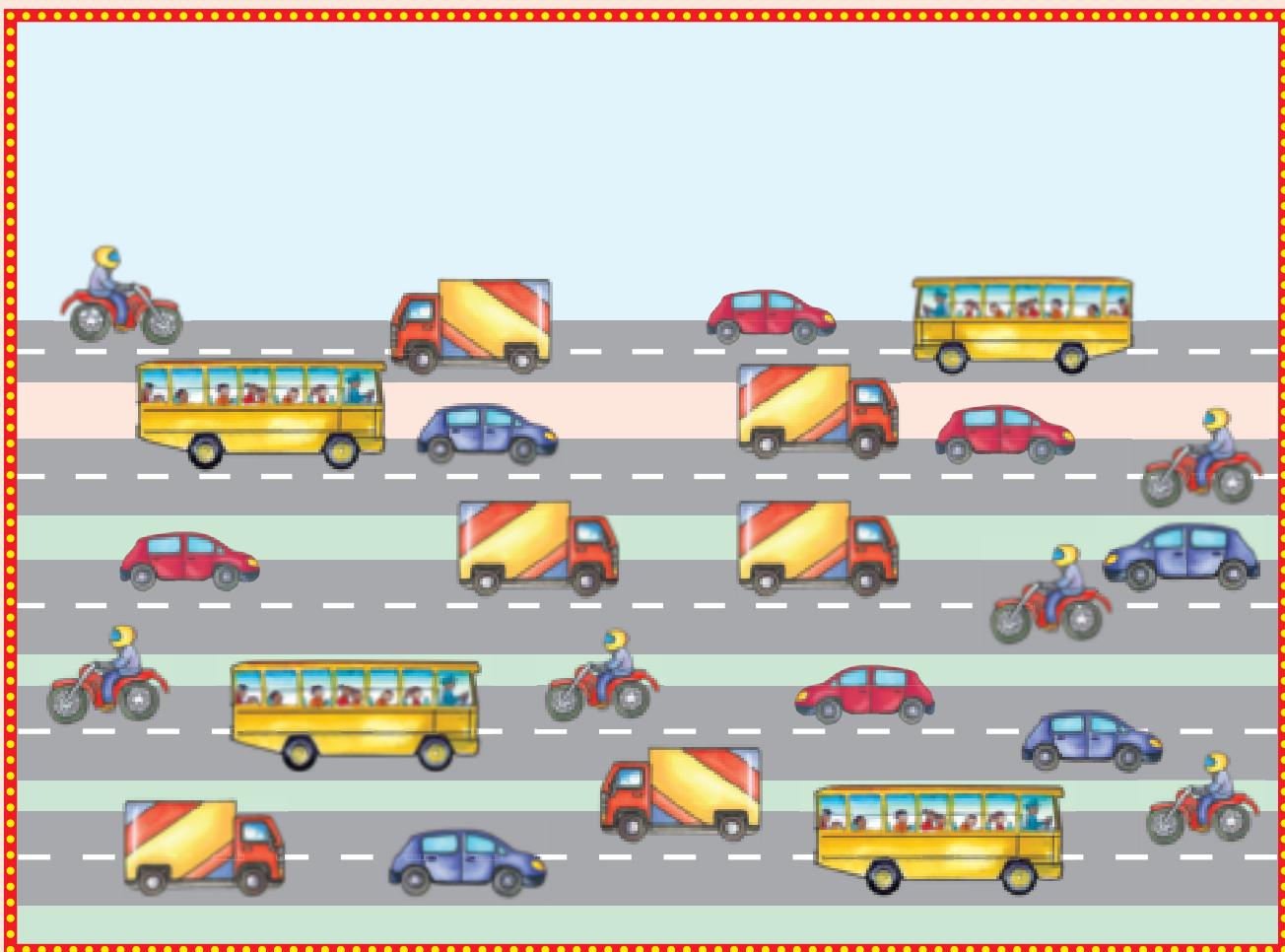
78

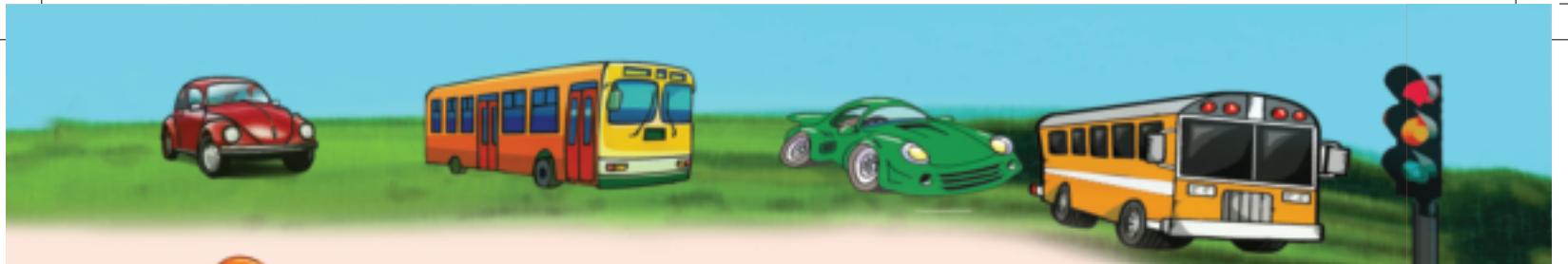
Themo ya 3



Data

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





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 zwitšku.



Teacher:
Sign:
Date:



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Themo ya 3



Data na tshifhinga

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

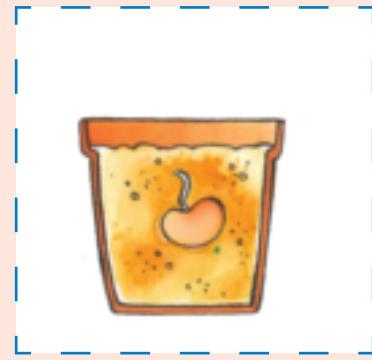
Deithi:



1



2



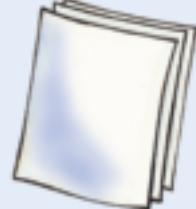
3



4



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



--	--	--	--



Teacher:
Sign:
Date:





Zwigwada zwa zwitanuzwitanu u swika kha 15

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo.

5

thanu



Lavhelesani tshifanyiso ni kone u fhindula mbudziso.



Lavhelesani tshifanyiso.

Ri nga i nwala nga hei ndila.

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

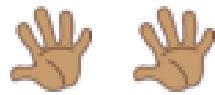
Olani zwanu hafha.



Tshigwada tshithihihi
tsha dza 5 ndi 5



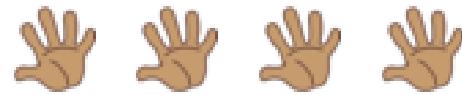
Vhalani minwe yanu ni nwale phindulo.



$$5 + 5 =$$



$$5 + 5 + 5 =$$



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

zwigwada zwa 2 zwa
thanu ndi 10



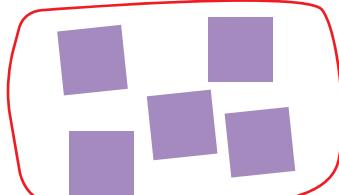


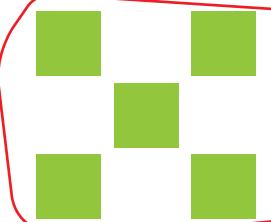
Olaní zvitendeledzi u
mona na zwi tevhelaho ni
vhumbe:



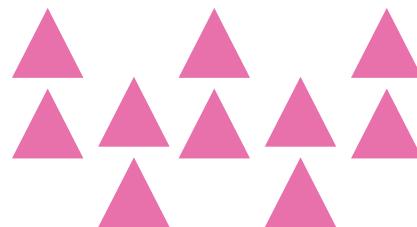
Nwalani mafhungombalo
a zwi tevhelaho:

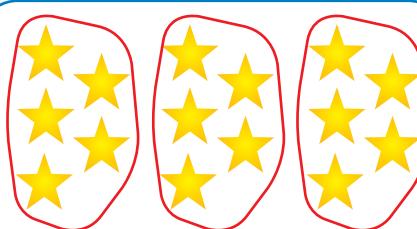
tshigwada tsha | tsha zwa 5



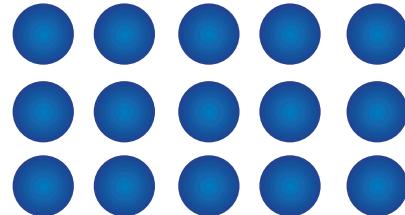


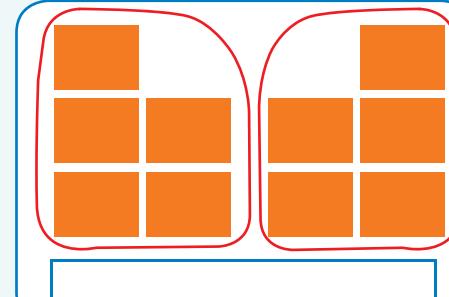
zwigwada zwa 2 zwa dza 5





zwigwada zwa 3 zwa zwa 5







Ni nga ita zwigwada zwingana zwa zvitanzuvitatu 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



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.



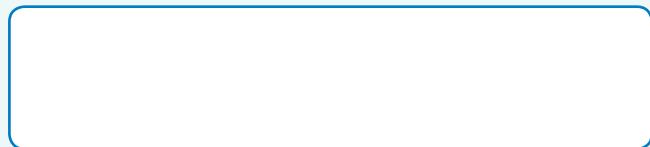
Olani:

Tshigwada tsha miomva mitłanuZwigwada zwivhili zwa maluvha
małanu kha tshithihi

Olani zwivhumbeo zwa zwi tevhelaho.

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

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



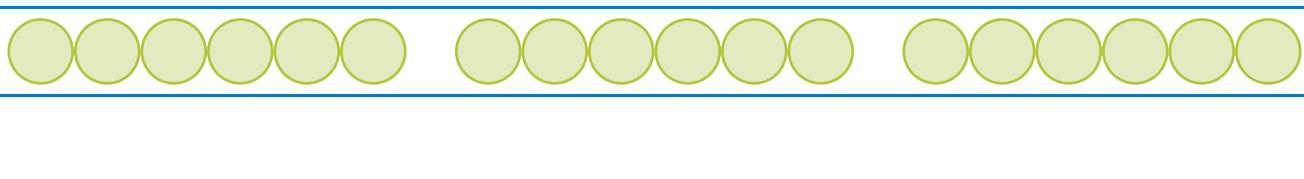


Tangedzelani ni vhale uri hu na zwigwada zwingana zwa mbilu t̄hanu zwine na nga ita kha garata l̄inwe na l̄inwe.





Nwalani fhungo mbalo la:



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

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



Ni nga kona u ita zwigwada zwingana zwa zwiłtanuzwiłtanu?

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	



Teacher:
Sign:
Date:





Zwi $\ddot{\text{t}}$ anuzwi $\ddot{\text{t}}$ anu u swika kha 15

Themo ya 3



Nwalani nomboro dzi no khou $\ddot{\text{t}}$ ahela.

I		3		5		7	8	9	
II	I2								



Itani zwigwada zwa zwi $\ddot{\text{t}}$ anuzwi $\ddot{\text{t}}$ anu.

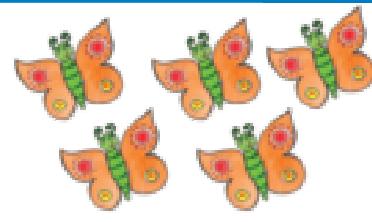
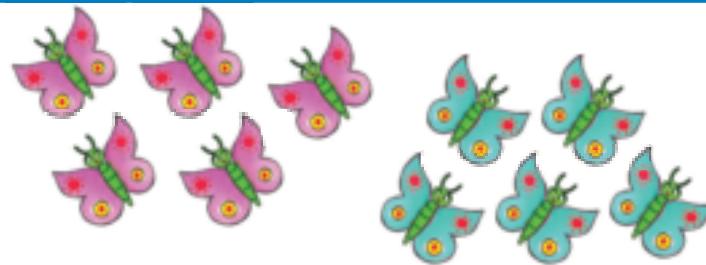
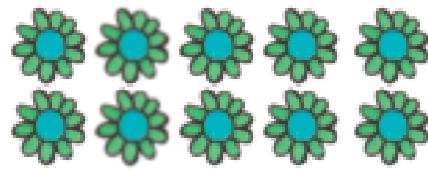
Kugo $\ddot{\text{o}}$ no $\ddot{\text{o}}$ zwithoma ku tea u vha na tshigwada tsha zwithoma zwi $\ddot{\text{t}}$ anu.
Olani zwithoma zwi no khou $\ddot{\text{t}}$ ahela.



36



Nwalani mafhungombalo a izwi.



Rekanyani zwi tehelaho.

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

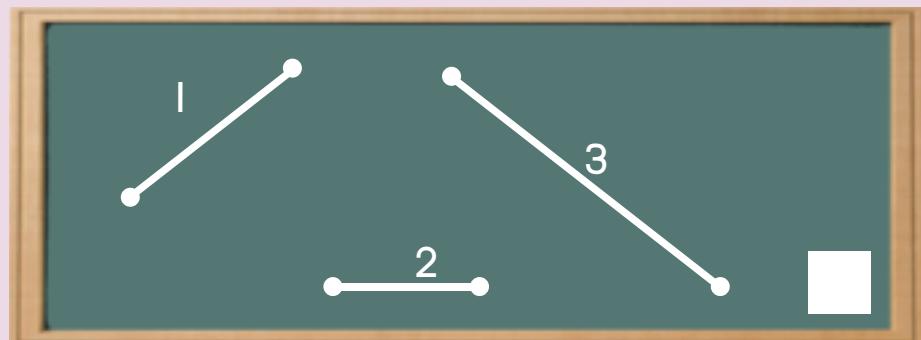
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\quad}$$

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

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

Mvusuludzo:

Mvusuludzo: Ndi mutaladzi ufhio u re mulapfusa?



Teacher:
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Date:



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Themø ya 3

Phetheni dza nomboro \hat{x} hanu u swika kha 50

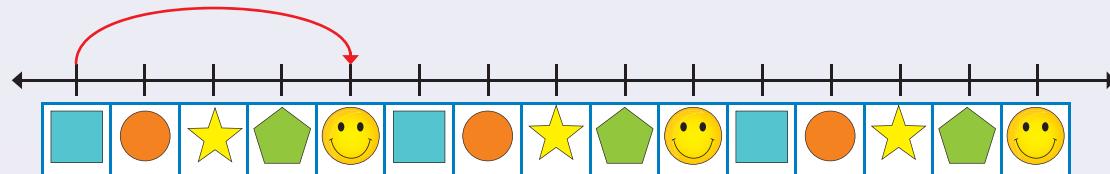


Fhedzisani phetheni ya \hat{x} hanu nga u khalara nomboro.

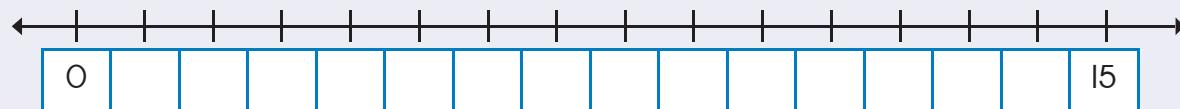
I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	20
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50



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



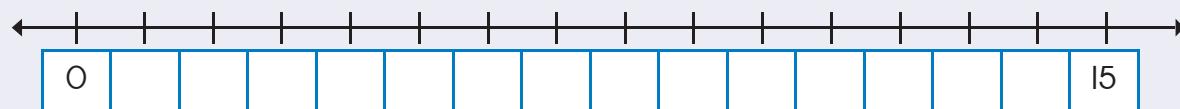
Dzhenisani nomboro dzi no khou \hat{x} ahela ni ole dzihupu ni tshi sumbedza zwigwada zwa \hat{x} hanu.



Fhedzisani mutalombalo.

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

Hu na zwigwada zwa zwa \hat{x} hanu.

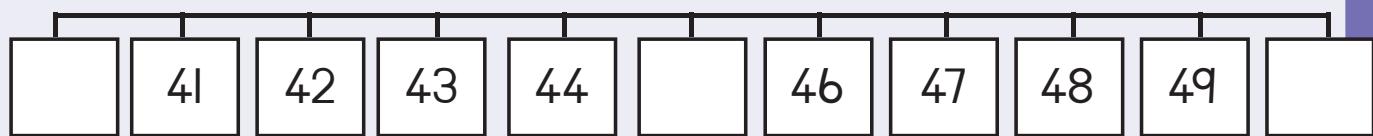
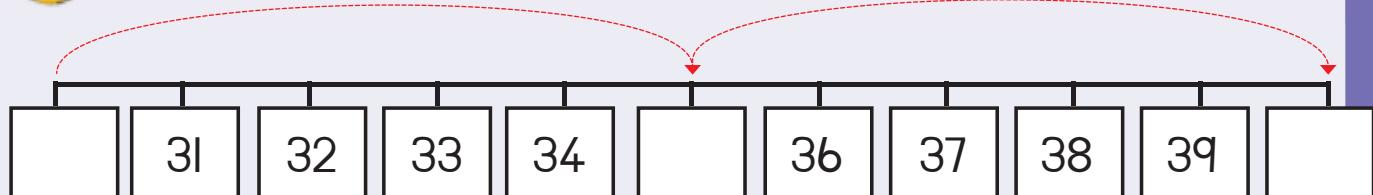


38

0 | 2 3 4 5 6 7 8 9 10

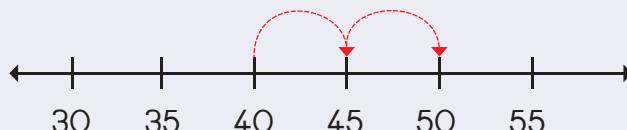


Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2 ni dzi vhee kha mitalombalo.

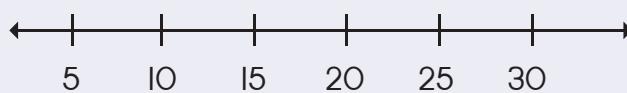


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

40, 45, 50



10, 15, 20



25, 30, 35



11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



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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 tshiñwe na tshiñwe.



40

0

1

2

3

4

5

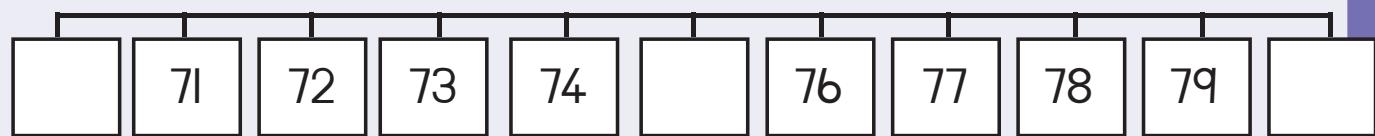
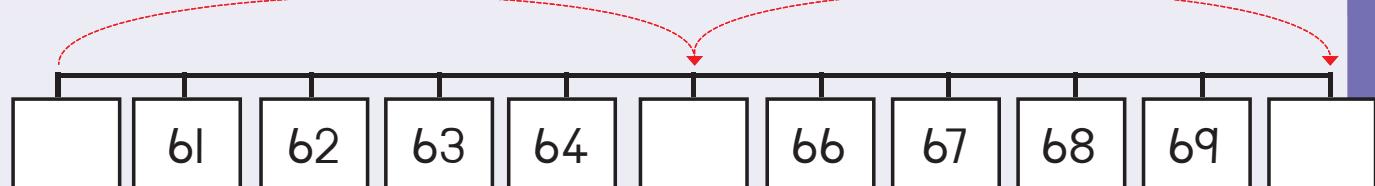
6

7

8

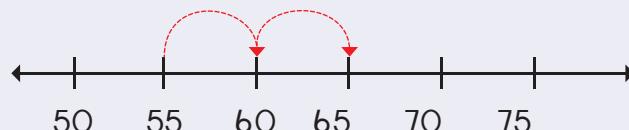
9

10

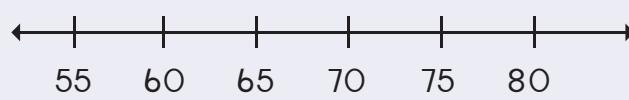


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

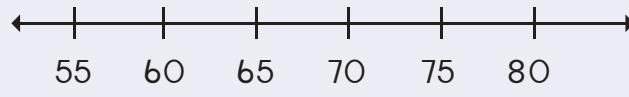
55, 60, 65



65, 70, 75



70, 75, 80



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Themo ya 3

Nyingakavhili



Ingani kavhili zwithu ni nwale phindulo.



I yo ingwa kavhili ndi



4 yo ingwa kavhili ndi

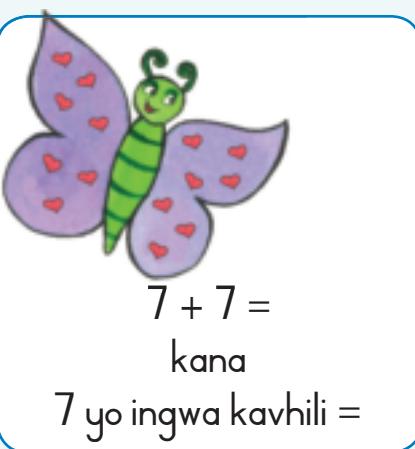


5 yo ingwa kavhili ndi



Vhalani zwivhumbeo zwi re kha besu linwe na linwe la tshisu.

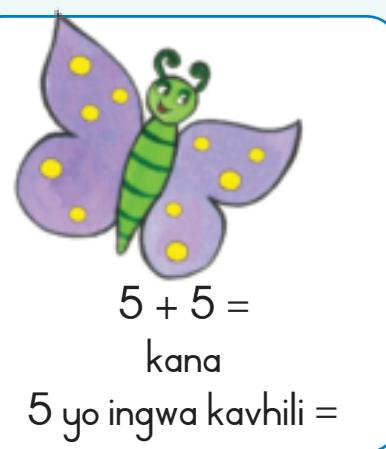
Fhedzisani mafhungombalo a nydingakavhili.



$$7 + 7 =$$

kana

7 yo ingwa kavhili =



$$5 + 5 =$$

kana

5 yo ingwa kavhili =

$$2 + 2 =$$

kana

2 yo ingwa kavhili =





Fhedzisani zwi tevhelaho:

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

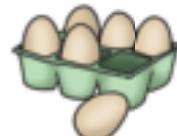
Ni kona u vhona malinga mangana?



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:

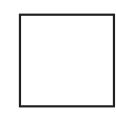
Hu na maduvha mangana kha vhege?

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.

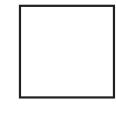
Hafu ya 14 ndi mini?



Ni kona u vhona milenzhe mingana?

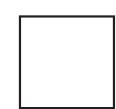


Ni kona u vhona milenzhe mingana zwino?



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	



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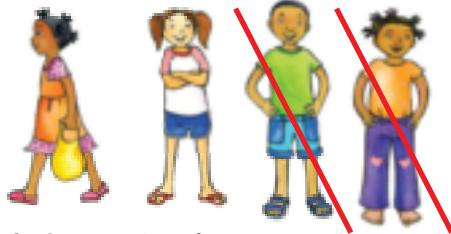


Themo ya 3

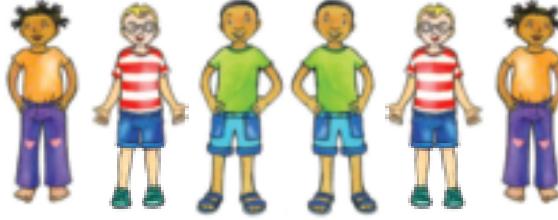
Hafu



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 =

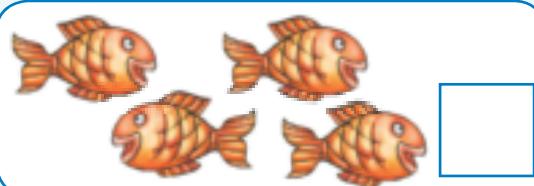
Hafu ya 4 ndi =

Hafu ya 10 ndi =

Hafu ya 6 ndi =



Hu na khovhe nngana?



Hafu ya khovhe dzothé ndi?



44

0

1

2

3

4

5

6

7

8

9

10



5

Vhalani zwithoma ni zwi hafule.

	2	yo hafulwa →		<input type="text"/>
	4	yo hafulwa →		<input type="text"/>
	6	yo hafulwa →		<input type="text"/>
	8	yo hafulwa →		<input type="text"/>
	10	yo hafulwa →		<input type="text"/>



Hafulani nomboro.



Hu na mashonzha mangana?

4	yo hafulwa →	
8	yo hafulwa →	
6	yo hafulwa →	
10	yo hafulwa →	
12	yo hafulwa →	
14	yo hafulwa →	



Hafu ya mashonzha ndi:





Fhindulani zwi tevhelaho:

Hu na milenzhe mingana?



Hu na milenzhe mingana zwino?



Ri ri hafu ya 8 ndi



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Date:





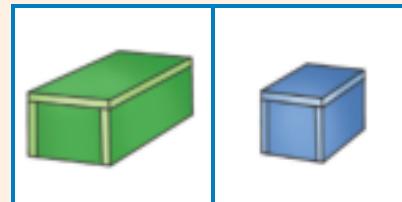
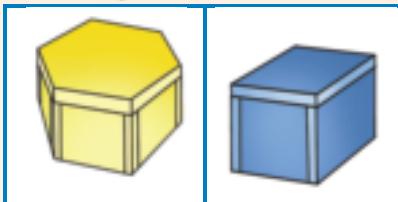
Deithi:

Themo ya 3

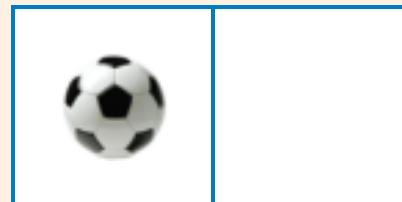
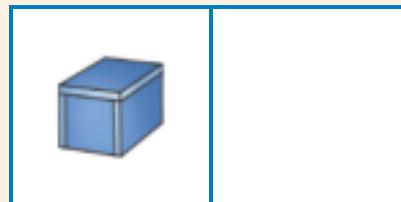
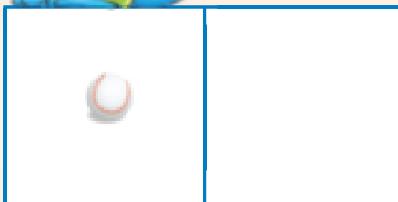
Zwithu zwa 3-D



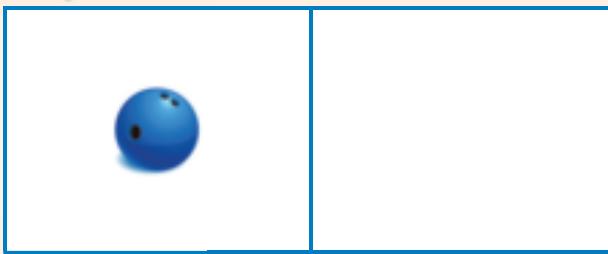
Itani thiki kha tshithu tshitukusa.



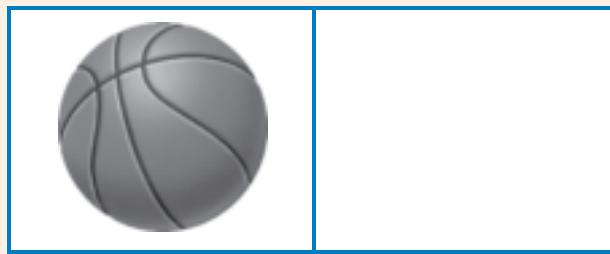
Olani tshithu tshihulwane kha tshanda tsha u la tsha tshifanyiso tshiñwe na tshiñwe.



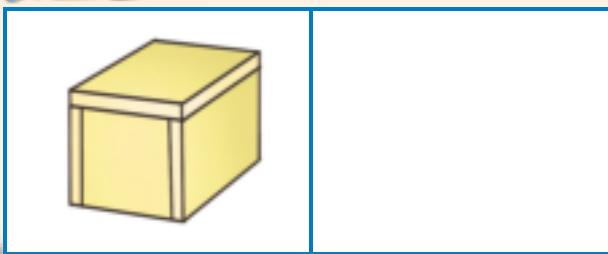
Olani bola i re khulwane kha bola ya lutombo.



Olani bola i re thukhu kha bola ya gireyi.



Olani bogisi li re lihulwane kha bogisi la tada.



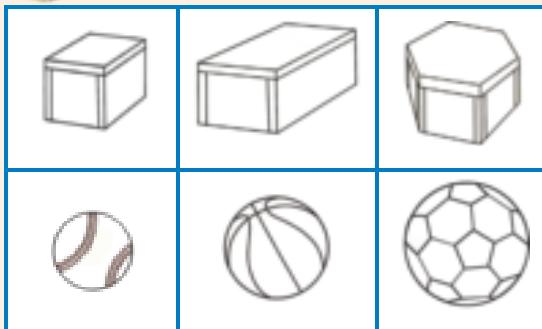
Olani bogisi li re lihulwane kha bogisi lidala.



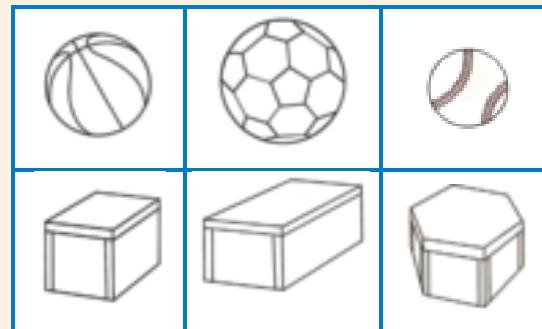


5

Khałarani bogisi l̄itukusa nga muvhala wa lutombo na bola Ქhukhusa nga muvhala wa Ქada.



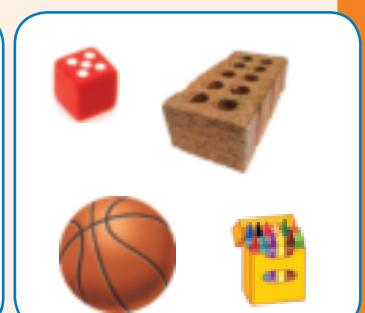
Khałarani bogisi l̄ihulwanesa nga muvhala wa pinki na bola khulwanesa nga muvhala mutswuku.



Ni nga kona u fhaṭa thawara nga zwithu zwi tevhelaho?

Khałarani ee kana hai.

ee hai



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 dzoṭhe (u balantsa).



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Deithi:

Zwithu zwa 3-D – U swenda na u kunguluwa

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



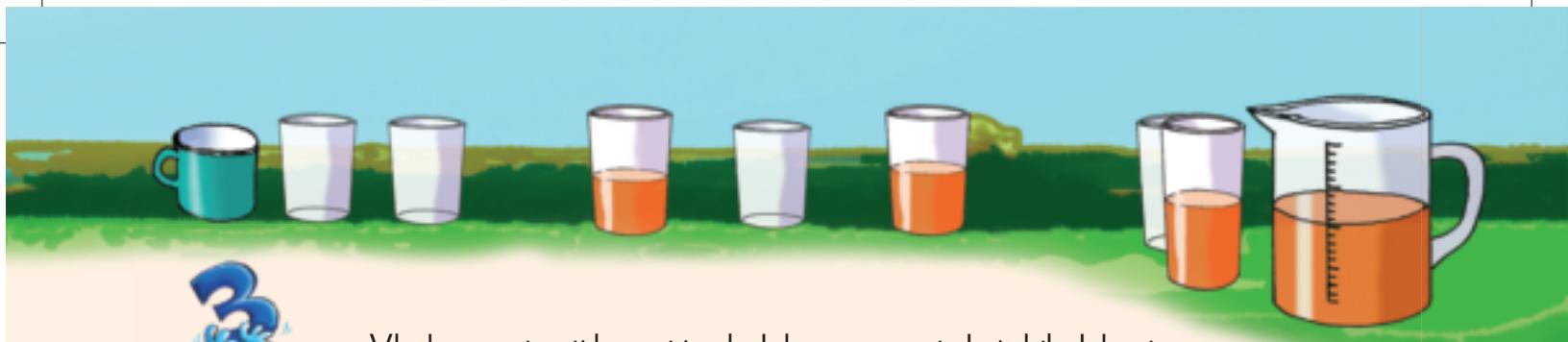
ee

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 tshukhu	Mabogisi matshuku
	Bola khulwane	Mabogisi mahulwane

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Deithi:

Phetheni dza dzhometřiri

Themoya 3

Mvusuludzo:

Oiani zwi tevhelaho:

tshitendeledzi

tshikwea

rekithiengele



Fhedzisani phetheni.



50

0

1

2

3

4

5

6

7

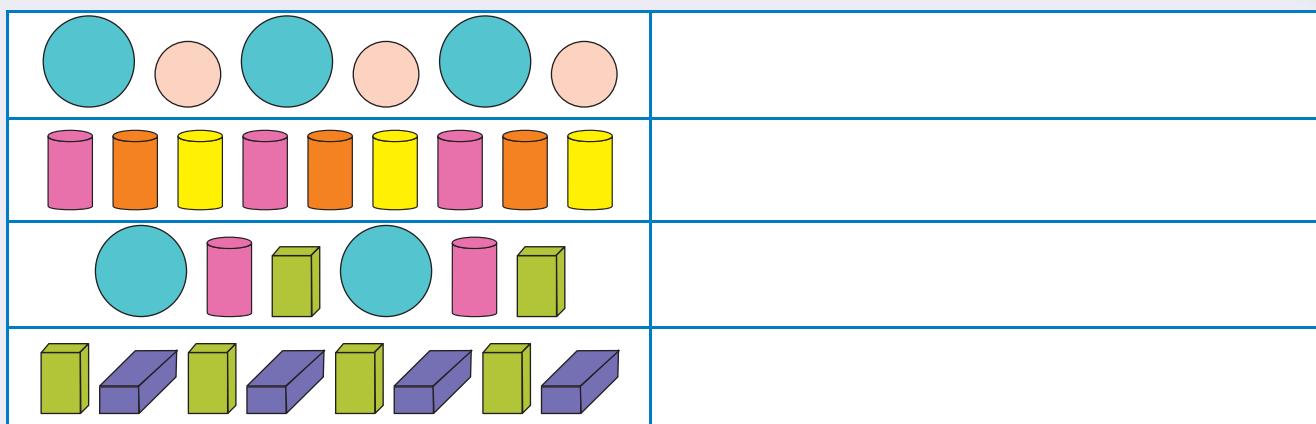
8

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



Teacher:
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Date:

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Themo ya 3

Zwigwada zwa mbili u swika kha 15



Nwalani dzinambalo la tshiga itshi.

2

mbili



Fhindulani mbudziso.

Ni kona u vhona phingwini nngana?



Ni kona u vhona phere nngana dza milenzhe?

I nwaleni sa fhungombalo:



Fhindulani mbudziso.

Hu na bugu nngana?



Ndi nga kona u ita zwigada zwingana zwa mbili?

I nwaleni sa fhungombalo.



Nwalani dzinambalo la tshiga itshi.

4



Vhalani mabesu, ni nware phindulo yanu.



$2 + 2 =$



$2 + 2 + 2 =$



$2 + 2 + 2 + 2 =$



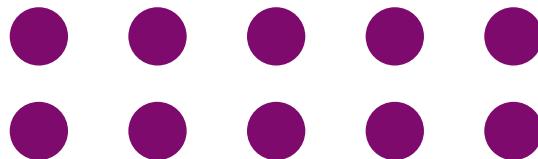


Itani zvitendeledzi u mona na zwi tevhelaho uri ni ite:

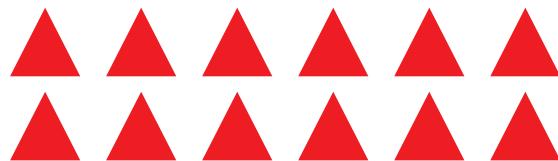
zwigwada zwa 4 zwa dza 2



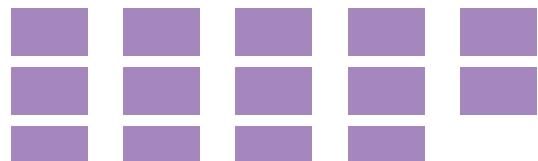
zwigwada zwa 5 zwa zwa 2



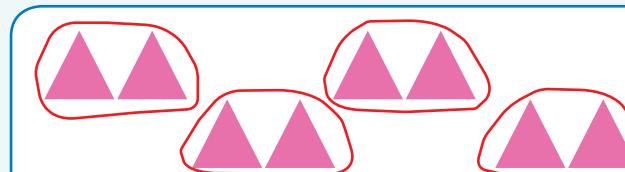
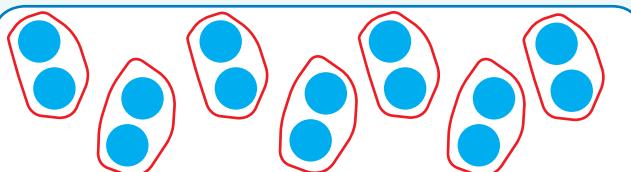
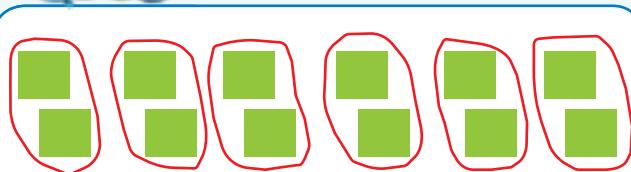
zwigwada zwa 6 zwa dza 2



zwigwada zwa 7 zwa dza 2



Nwalani fhungombalo ja 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

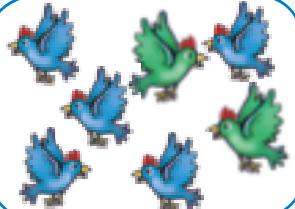


Themo ya 3

Ndovhololo ya mut^uanganyo wa mbili u swika kha 15



Hu na milenzhe mingana?



No i vhalisa hani?



Olani zwivhumbeo ni tshi sumbedza zwi tevhelaho:

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



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

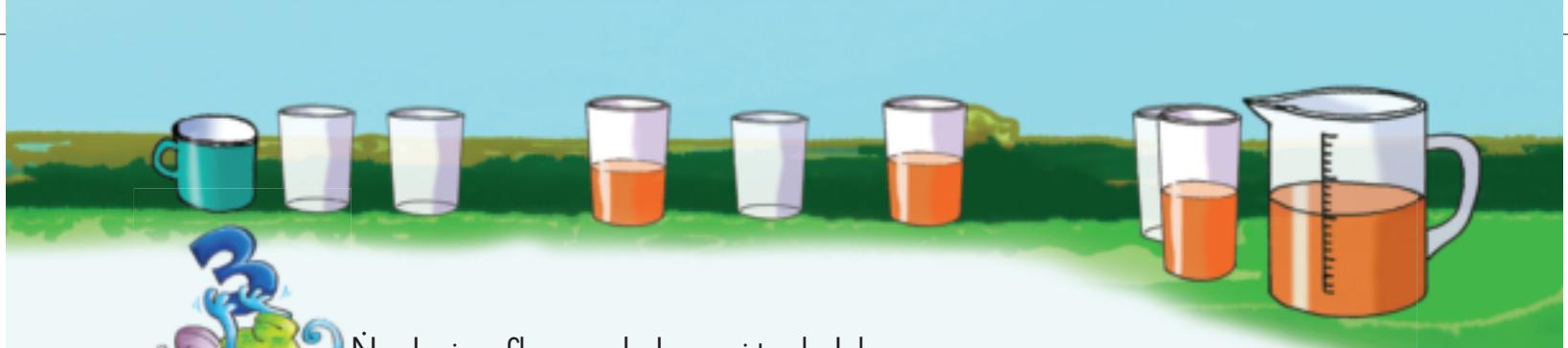


$$2 + 2 + 2 + 2 = \boxed{\quad}$$



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





Nwalani mafhungombalo a zwi tevhelaho:

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

	<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 linwe na linwe.

	<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



Themo ya 3



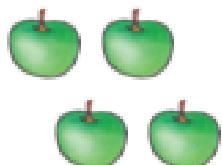
Ńwalani nomboro dzi no khou t̄ahela.

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



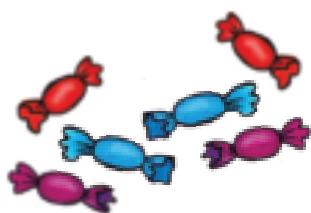
Itani zwigwada zwa mbili.

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



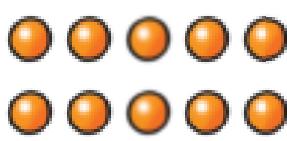
Hu na zwigwada zwingana zwa maapula?

Ńwana muñwe na muñwe u do wana maapula mangana?



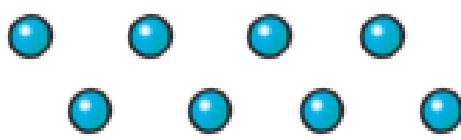
Hu na zwigwada zwingana zwa malegere?

Ńwana muñwe na muñwe u do wana malegere mangana?



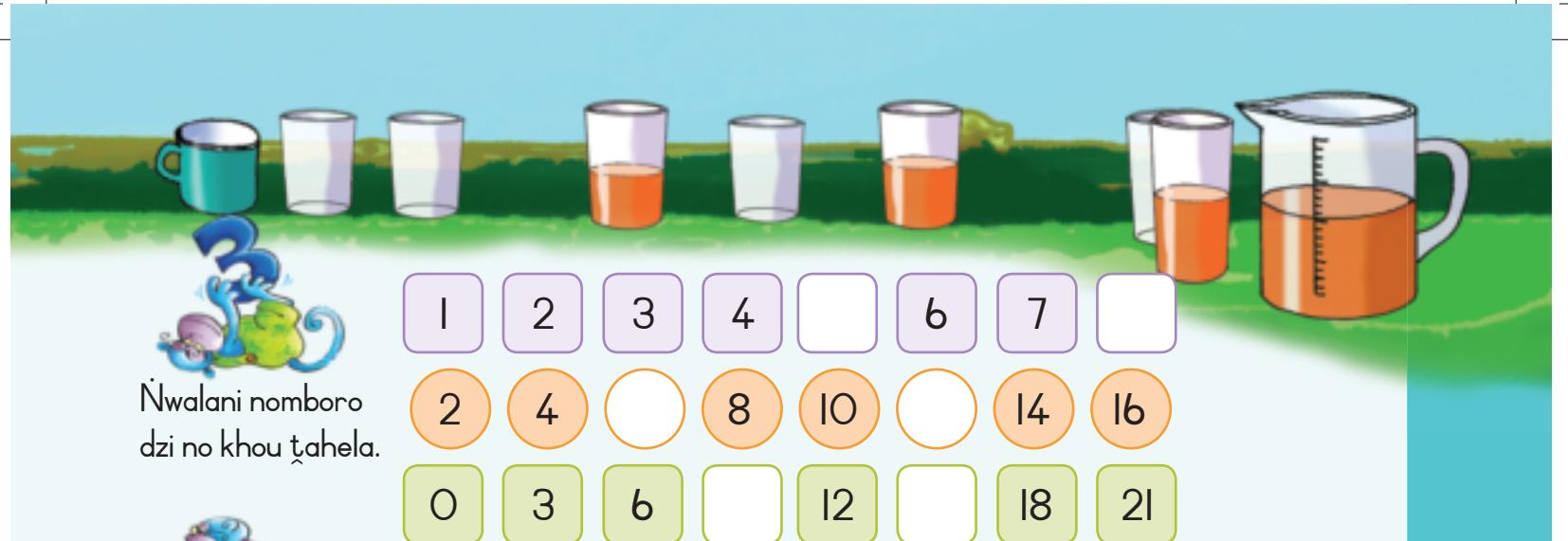
Hu na zwigwada zwingana zwa mimavhulu?

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

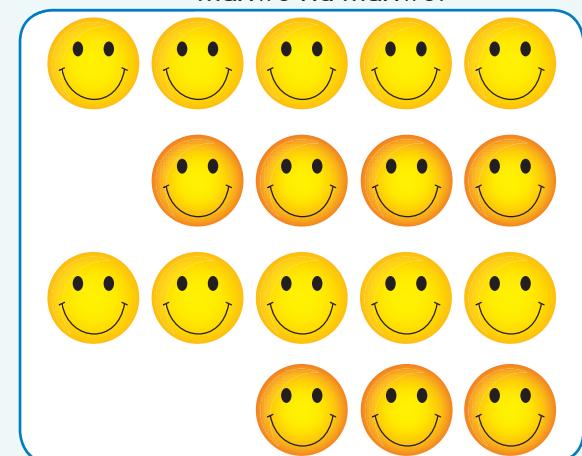


Rekanyani zwi tevhelaho.

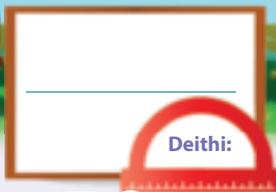
$2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 + 2 + 2 =$	<input type="text"/>



Tangedzelani zwigwada zwa
zwivhilizwihili kha mutaladzi
muñwe na muñwe.



q3

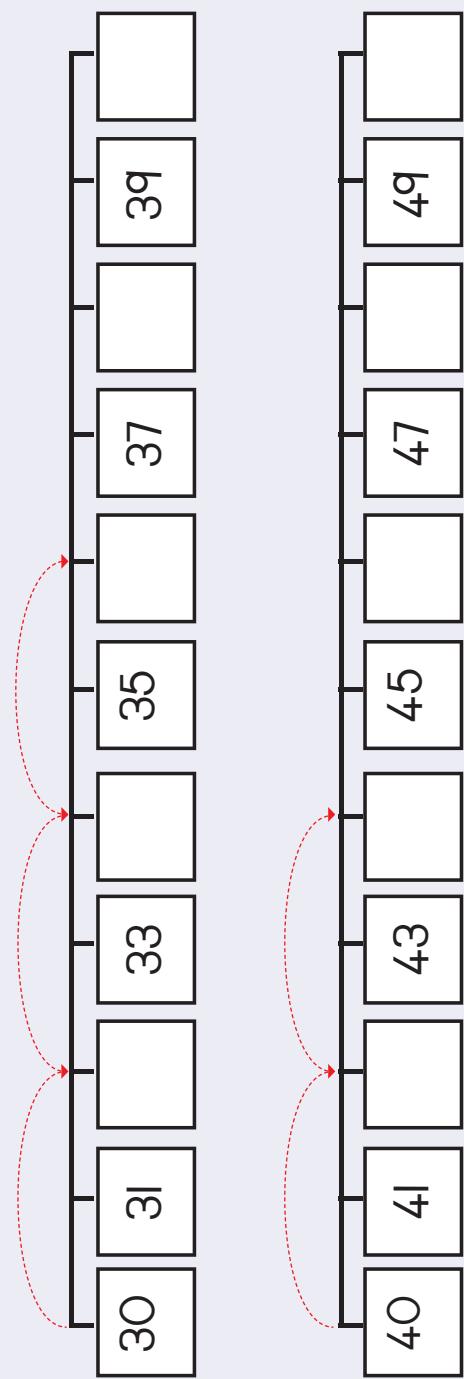


Themo ya 3

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

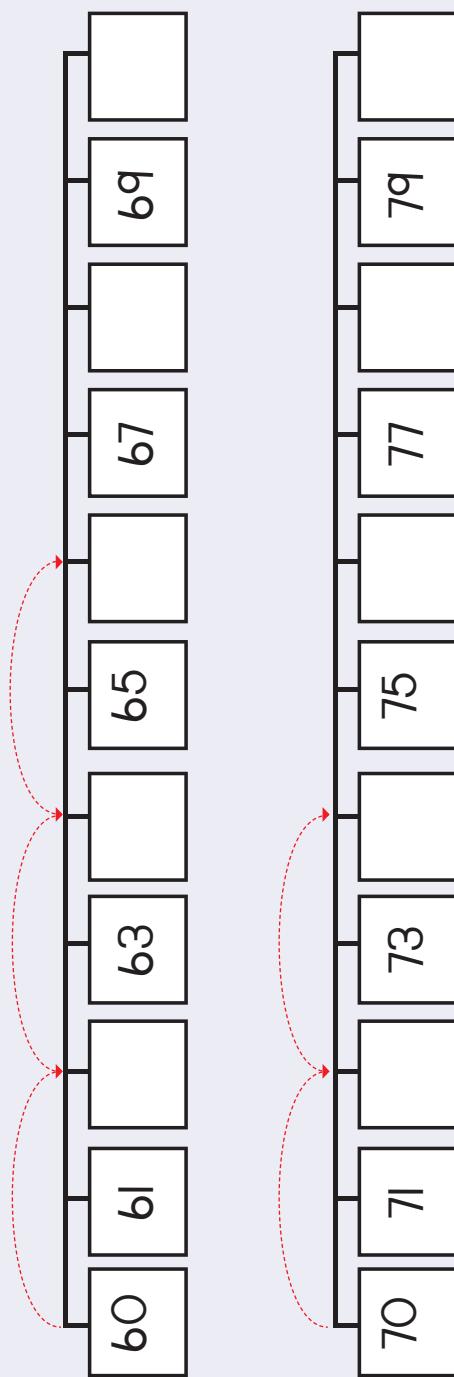
38 40 42 44 46 48

46, 48, 50

40 42 44 46 48 50



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



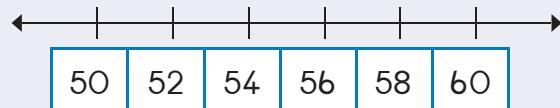
Fhedzisani phetheni nga u khalara nomboro dzone.

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

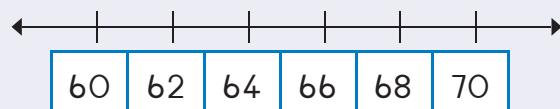


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

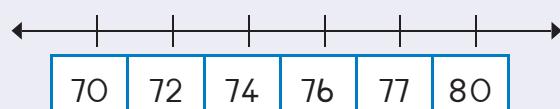
54, 56, 58



64, 66, 68



72, 74, 76



Teacher:
Sign:
Date:



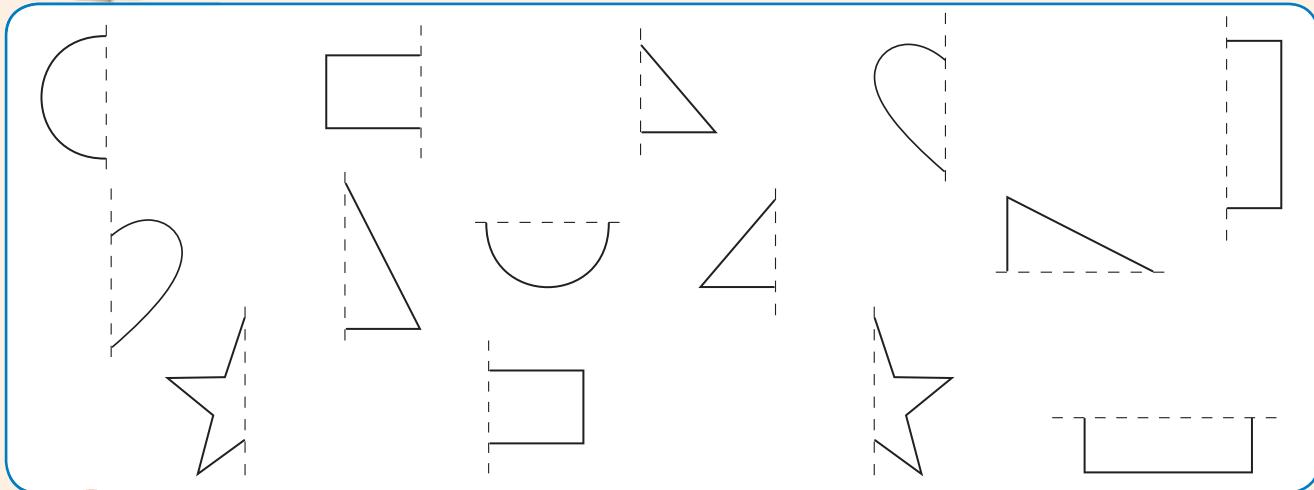
q4



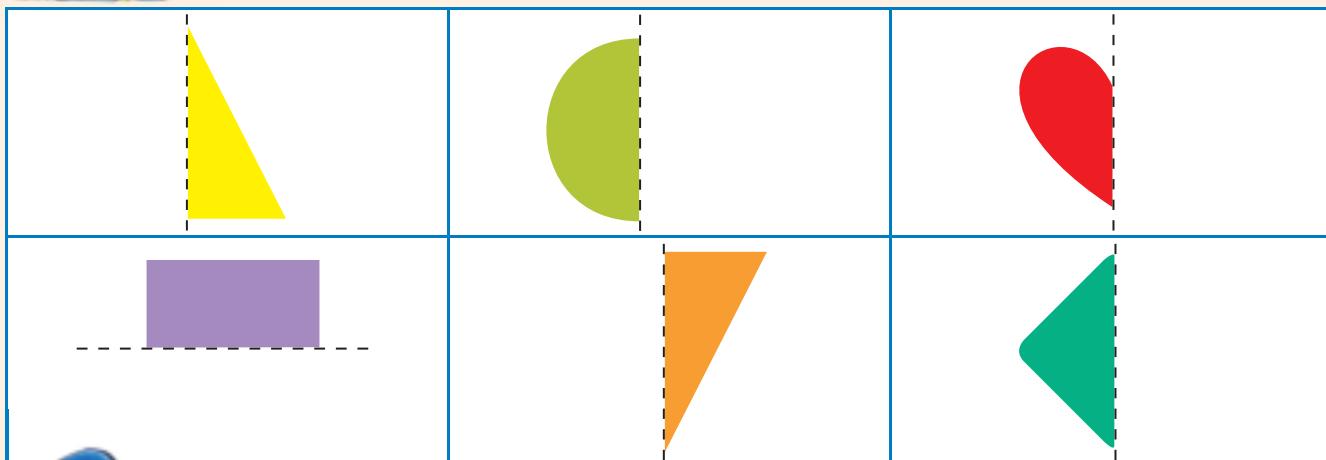
Themo ya 3



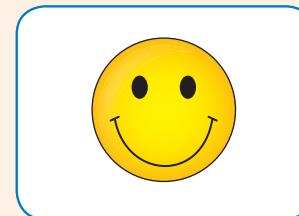
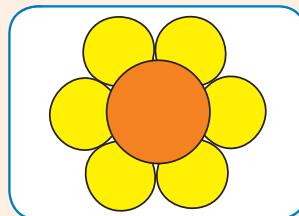
Khałarani zwipiða zwivhili zwa zwivhumbeo zwine zwa ḋo vhumba tshivhumbeo tshithihi.



Olani ienda 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

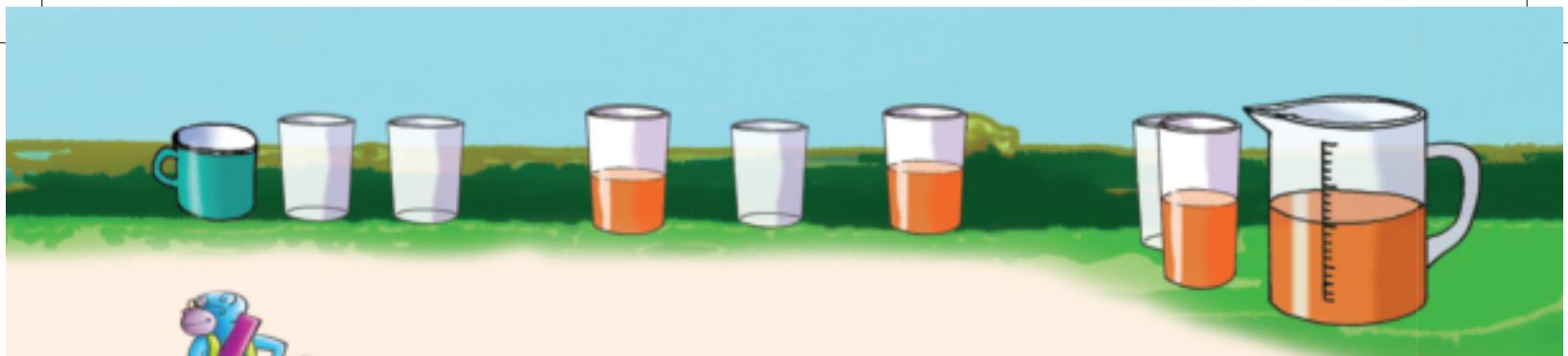
6

7

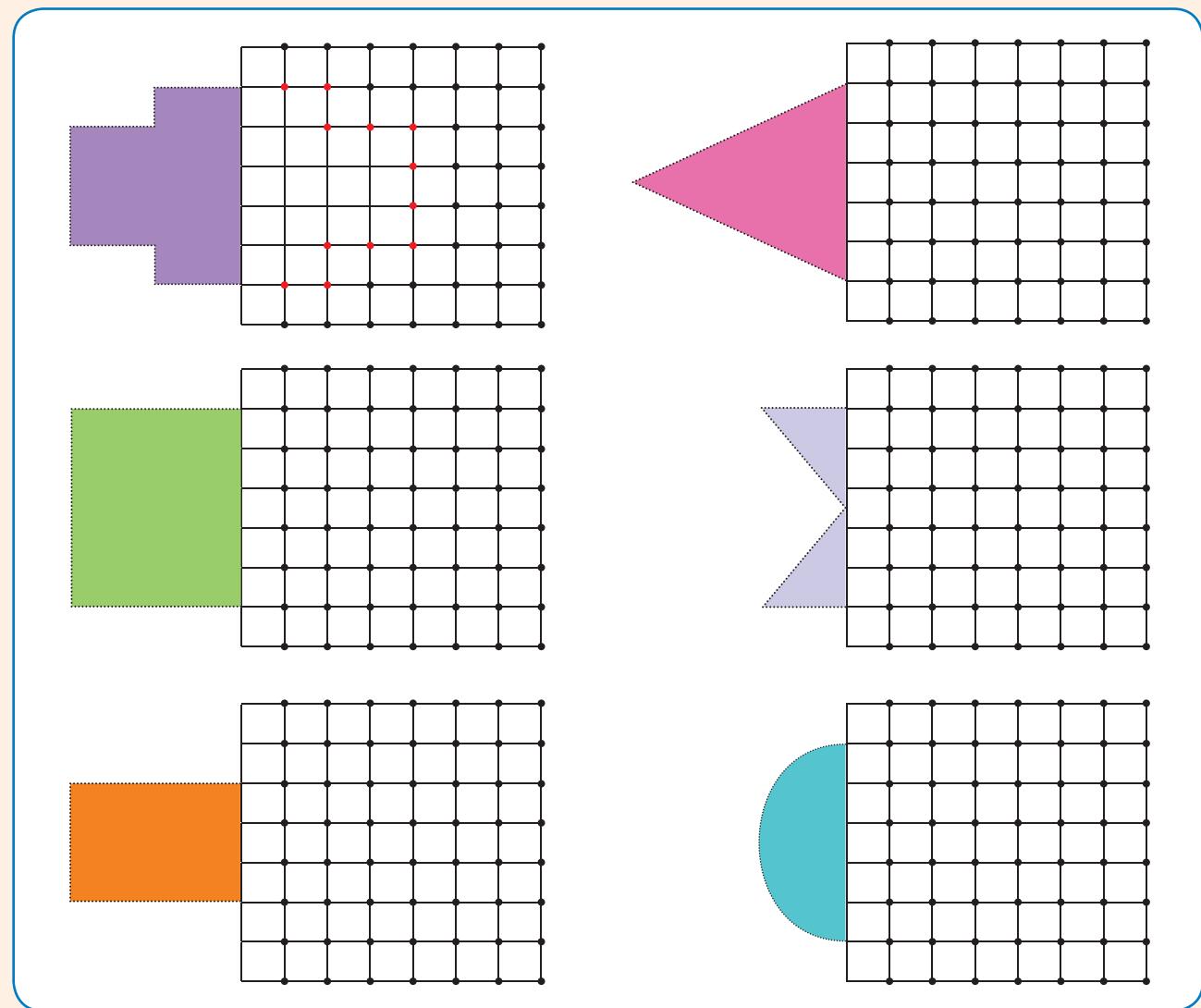
8

9

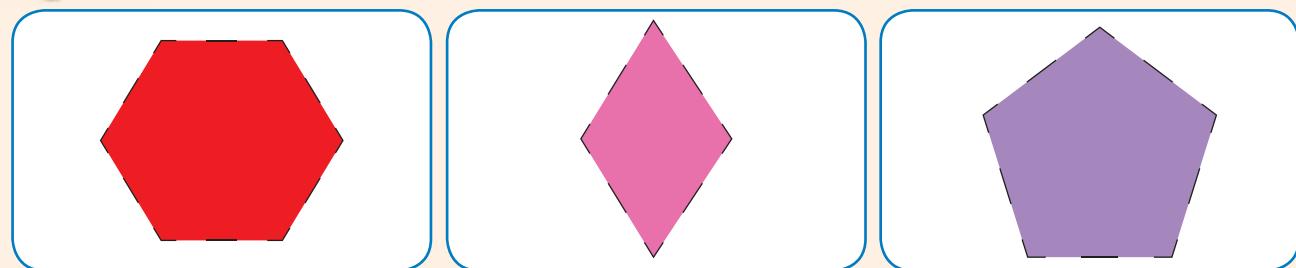
10



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



Themø ya 3

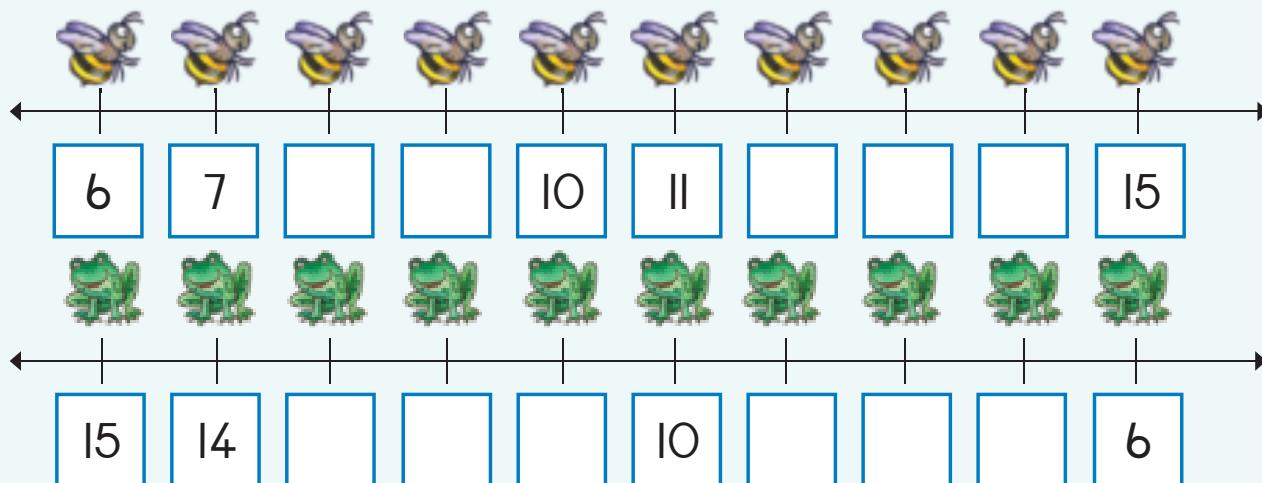


Nwalani nomboro dzi no khou ṭahela.

10	II	<input type="text"/>	<input type="text"/>	<input type="text"/>	15
q	10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Nwalani nomboro dzi no khou ṭahela.



Nwalani phindulo.

$10 + 1 =$	<input type="text"/> II
$10 + 2 =$	<input type="text"/>
$10 + 5 =$	<input type="text"/>
$10 + 3 =$	<input type="text"/>

$15 - 10 =$	<input type="text"/>
$14 - 10 =$	<input type="text"/>
$12 - 10 =$	<input type="text"/>
$11 - 10 =$	<input type="text"/>



62



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



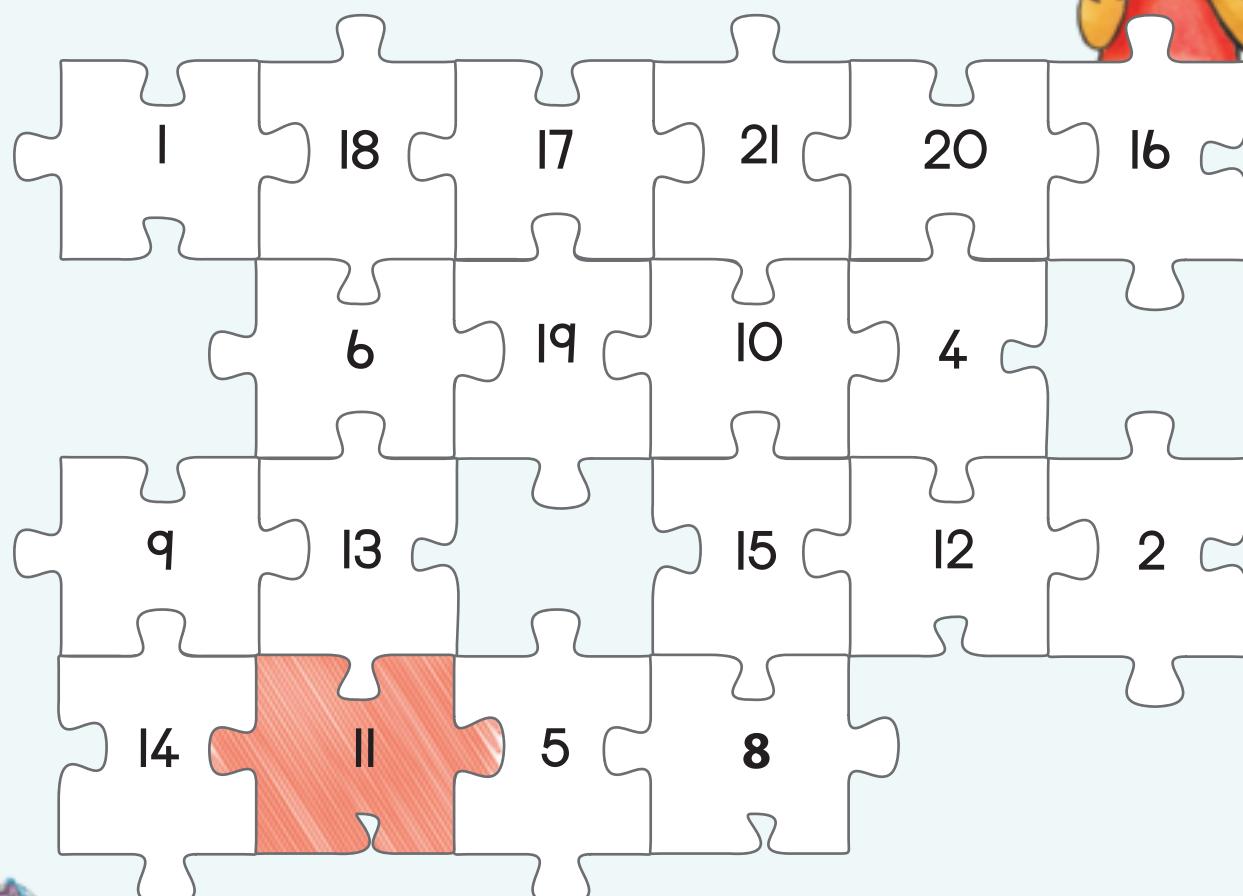
10 + 4 nga mutada



10 + 0 nga mudala



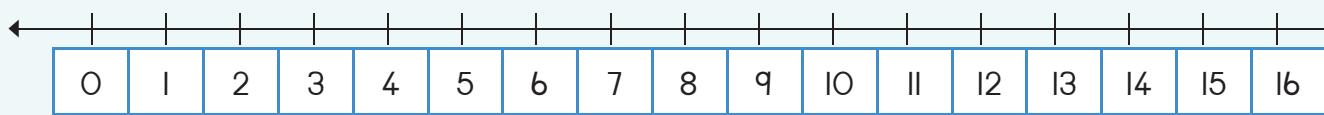
10 + 2 nga wa tshitopana



Sumbedzani fumi na iña kha mutualombalo:



Teacher: Sign:
Date:



11 12 13 14 15 16 17 18 19 20



96

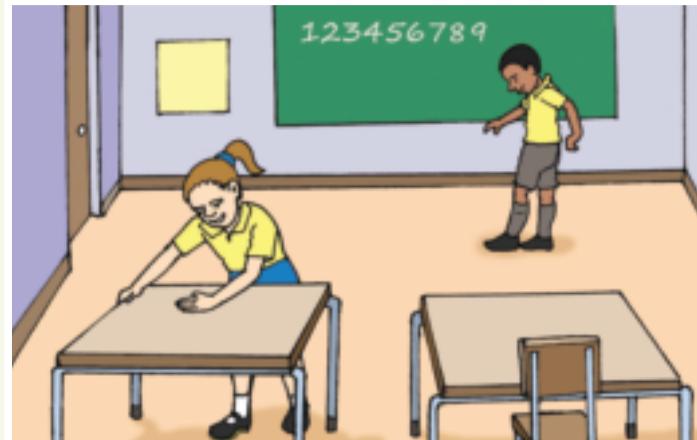


Themo ya 3



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

Ndi vhulapfu ha zwanda vhungana hu no linga vhuphara?

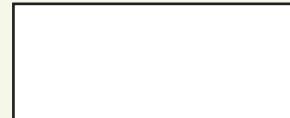
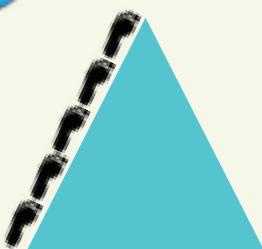


Vhulapfu vhu lingana vhulapfu ha tshanda ha ____.

Vhuphara vhu lingana vhulapfu ha tshanda ha ____.



Ndi maga mangana a no ela vhulapfu ha matungo?



Ńwalani phindulo.



Vhulapfu vhu lingana vhulapfu ha tshanda ha ____.



64

0

1

2

3

4

5

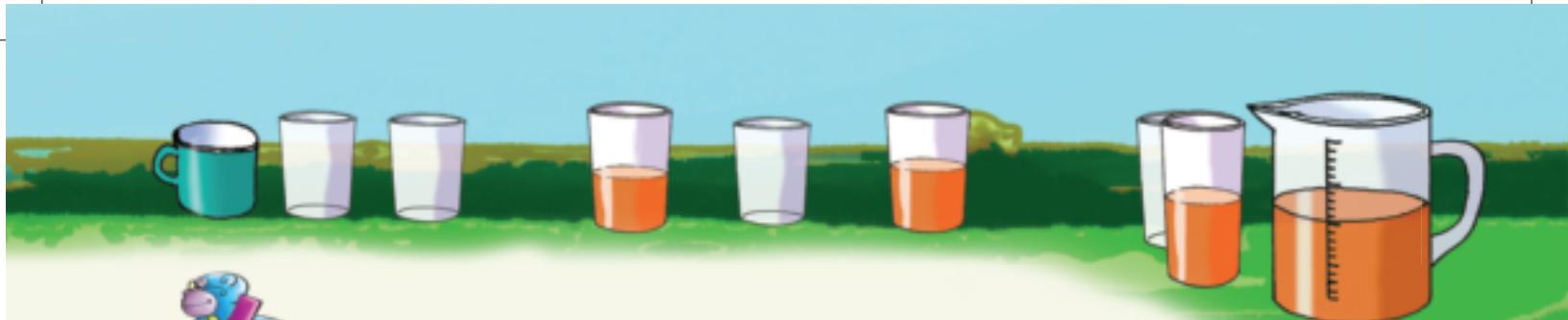
6

7

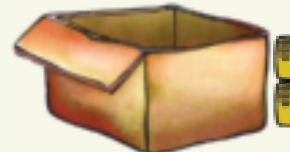
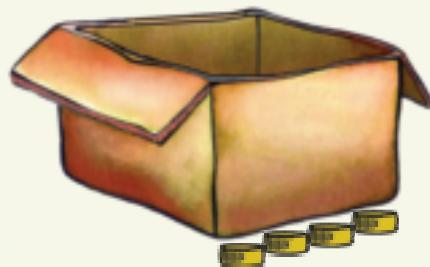
8

9

10



Vhulapfu na vhuphara ha bogisi ili ndi vhufhio?

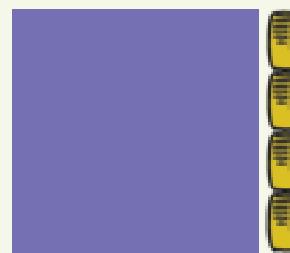
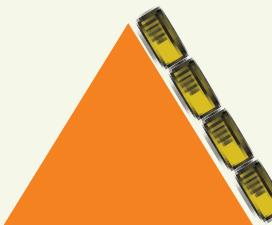


Vhulapfu ha hone vhu lingana vhulapfu
ha zwithivho zwa babodelo zwa _____.

Vhuphara ha hone vhu lingana vhulapfu
ha zwithivho zwa babodelo zwa _____.



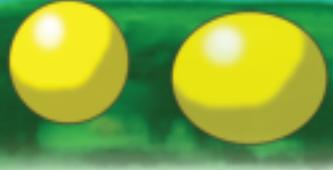
Ndi zwithivho zwingana zwi no ela vhulapfu ha matungo.



Teacher:
Sign:
Date:



97



Themo ya 4

Nomboro 16

Mvusuludzo:

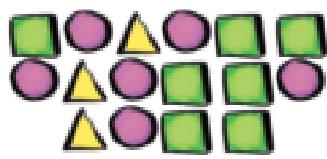
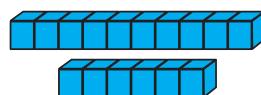
Itani ndowendowe ya u nwala dzinambalo ni fhedzise phetheni.

7

sumbo



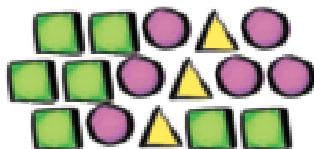
Livhanyani zwifanyiso.



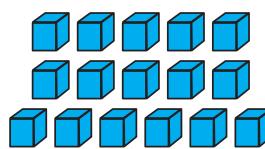
10

6

16



16



10
6

16 16 16 16

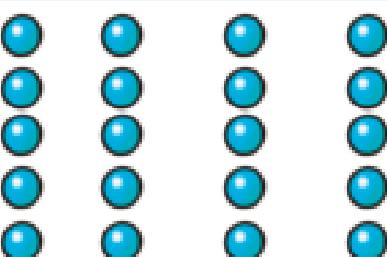
fumirathi

16 16 16 16

fumirathi



Tangedzelani mimbete
ya 16 fhedzi.



Ho sala vhungana? _____

66

0

1

2

3

4

5

6

7

8

9

10



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? _____

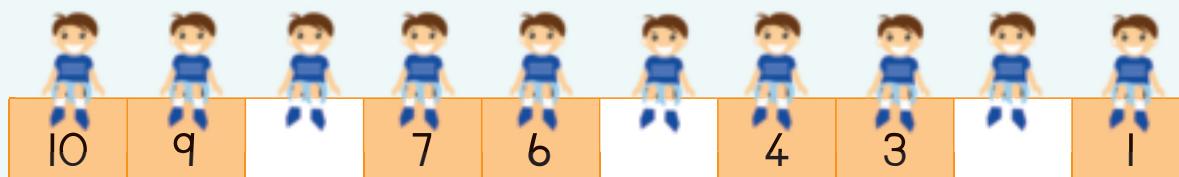
Ndi nomboro ifhio i re ṭhukhu kha fumirathi nga mbili? _____

Ndi nomboro ifhio i re khulwane kha fumirathi nga thihi? _____

Ndi nomboro ifhio i re khulwane kha fumirathi nga mbili? _____



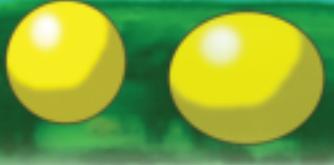
Nwalani nomboro dzi no khou ṭahela.



11 12 13 14 15 16 17 18 19 20



98



Themo ya 4

Nomboro 17

Mvusuludzo:

Itani ndowendowe ya u nwalā dzinambalo ni fhedzise phetheni.

8

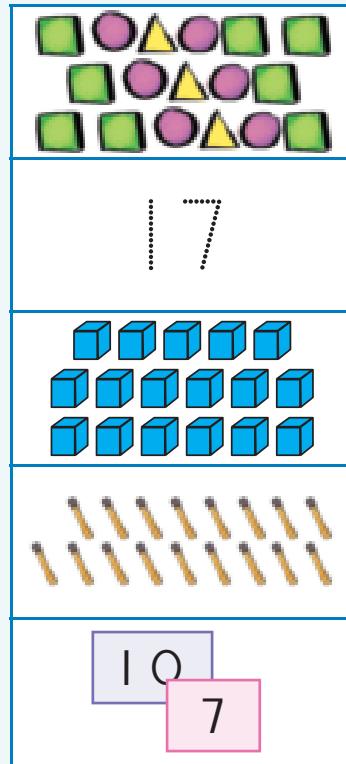
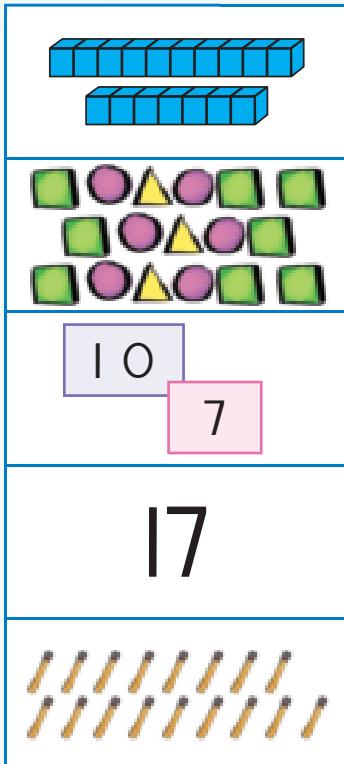
malo



Livhanyani zwifanyiso.

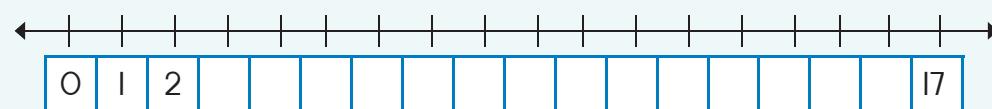


Tovhedzelani nomboro.



17 17 17 17
fumisumbé
17 17 17 17
fumisumbé

Fhedzisani mutualombalo.



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?



Nwalani nomboro dzi no
khou ṭahela.

Nwalani nomboro dzi no
khou ṭahela.

	2		4		6		8		10
	12		14		16		18		20

qq



Themo ya 4

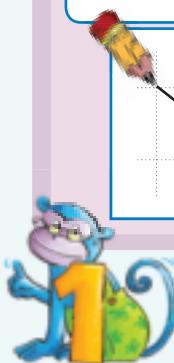
Nomboro 18

Mvusuludzo:

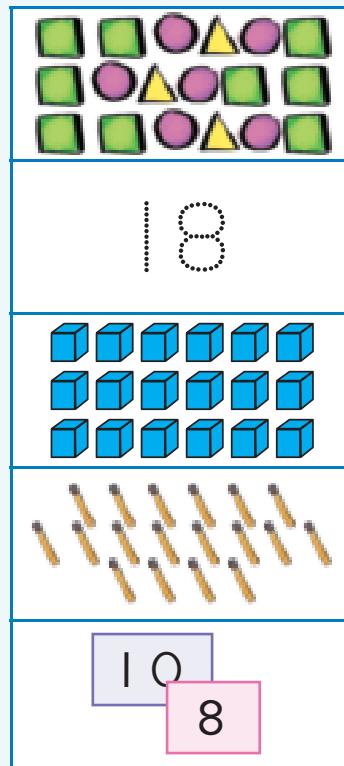
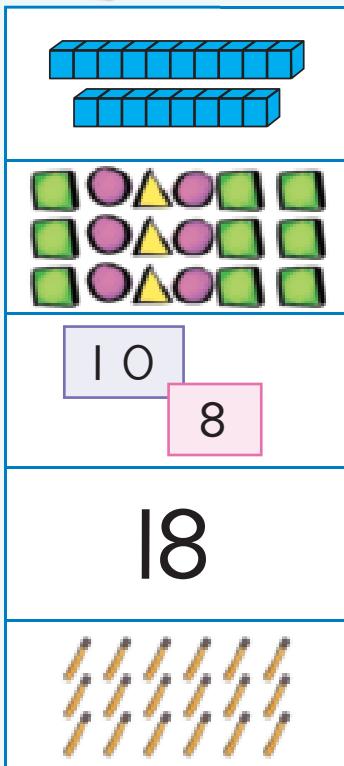
Itani ndowendowe ya u nwala dzinambalo ni fhedzise phetheni.

q

take



Livhanyani zwifanyiso.

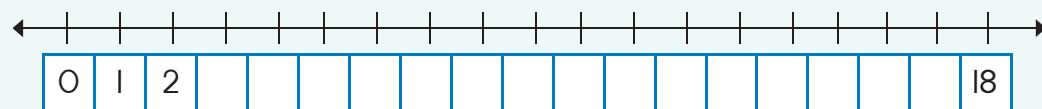


Tovhedzelani nomboro.

18	18	18	18
fumimalo			
18	18	18	18
fumimalo			



Fhedzisani mutualombalo.



0 1 2 3 4 5 6 7 8 9 10



Oiani 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



Teacher:
Sign:

Date:



100



Themo ya 4

Nomboro 19

Mvusuludzo:

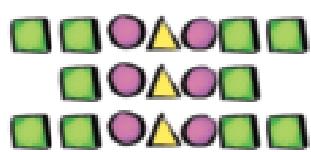
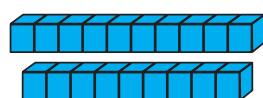
Itani ndowendowe ya u r̄wala dzinambalo ni fhedzise phetheni.

10

fumi



Livhanyani zwifanyiso.



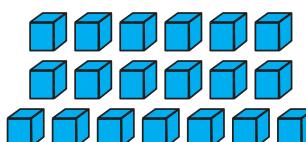
10

9

19



19



10
9



Tovhedzelani nomboro.

19 19 19 19

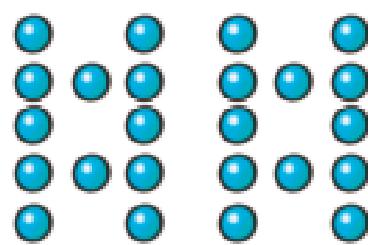
fumi \ddot{a} he

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		I3		I5		I7		I9	

11 12 13 14 15 16 17 18 19 20



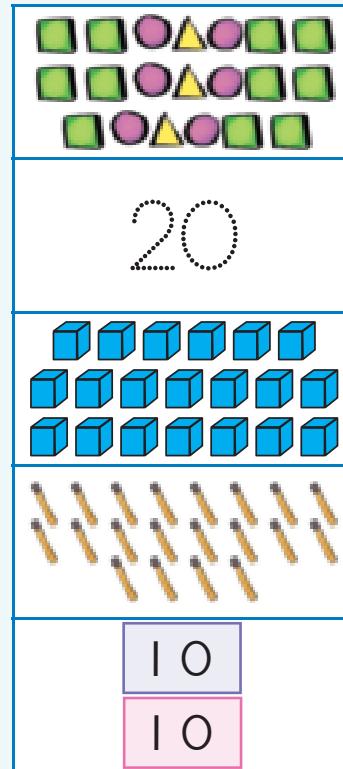
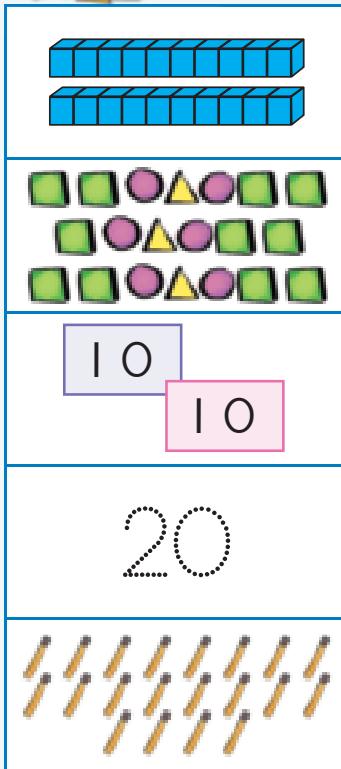
101



Themo ya 4



Livhanyani zwifanyiso.



Tovhedzelani nomboro.

20 20 20 20

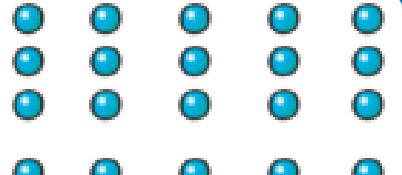
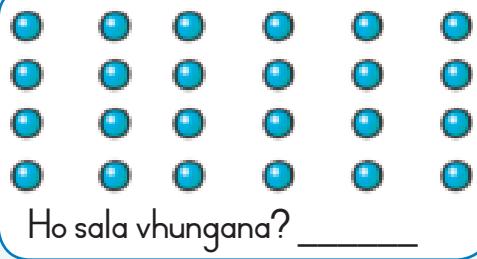
fumbili

20 20 20 20

fumbili



Tangedzelani vhulungu ha 20 fhedzi.

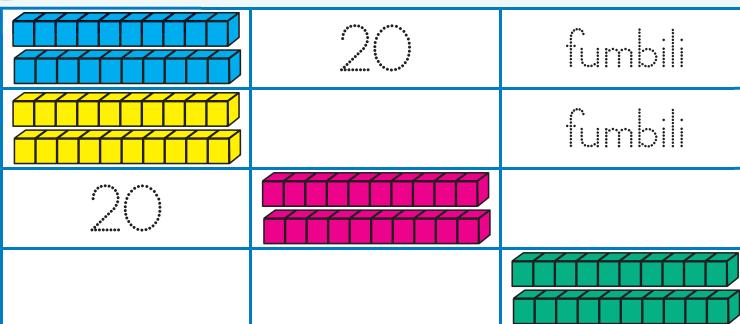


Ho sala vhungana? _____

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? _____



Tumani
nomboro na
ipfi.

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

iña
sumbe
tahe
raru
fumithihi
fumimbili
thihi
mbili
malo
zero
thanu
rathi
fumiraru
fumi
fumiina



Nwalani nomboro i no khou
tahela.

Rangela		Tevhela
16	17	
	12	
	14	
	9	10
	6	



Shumisani maipfi a thukhu na
khulwane ni tshi fhedzisa hezwi:

35 ndi _____ kha 38

79 ndi _____ kha 65

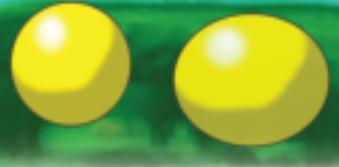


Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

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Themba ya 4



Tangedzelani nomboro i re khulwane tshibulokoni tshirinwe na tshirinwe.

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

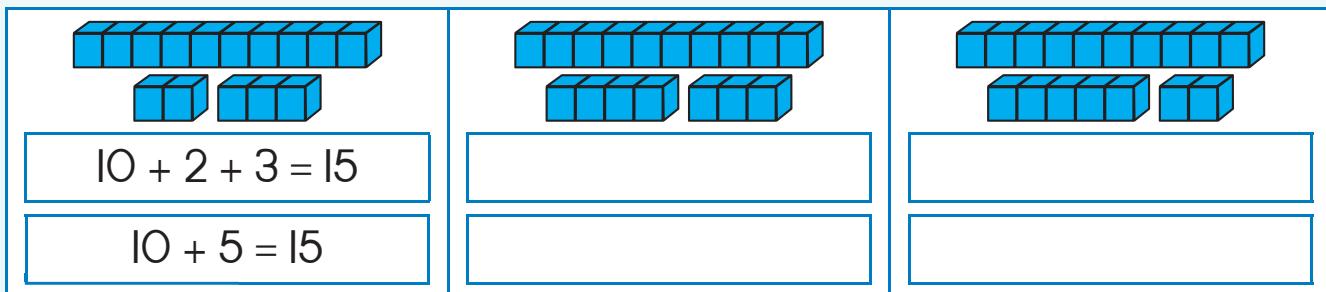


Tanganyani zwi tevhelaho.
Thomani nga u dzhenisa
nomboro khulwane u
thoma.

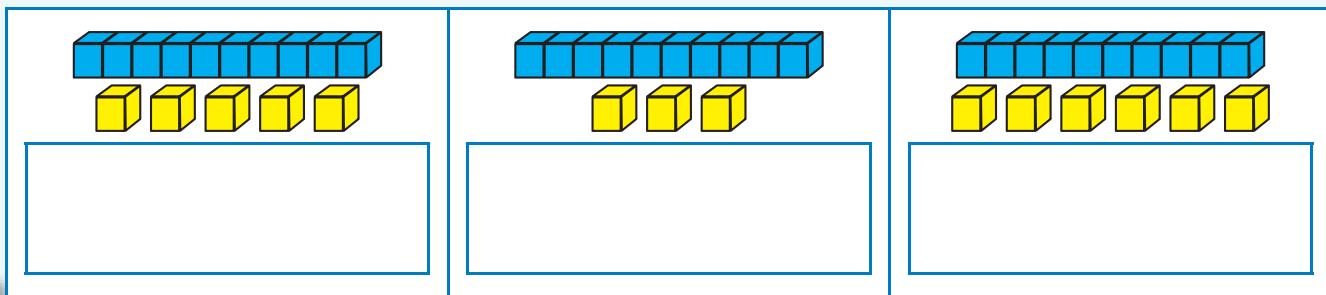
$1 + 1 + 5 =$	$5 + 1 + 1 =$
$6 + 2 + 10 =$	
$3 + 4 + 2 =$	
$2 + 6 + 3 =$	
$1 + 10 + 2 =$	



Tanganyani zwibuloko.



Nwalani fhungombalo la zwi tevhelaho.



76

0 | 2 3 4 5 6 7 8 9 10



Nwalani fhungombalo la zwi tehelaho:

	$8 + 4 = 12$
	$10 + 2 = 12$



Nwalani nomboro dzi no khou t̄ahela.

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



Teacher:
Sign:
Date:



103



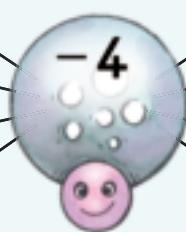
Themba ya 4

Mutuso



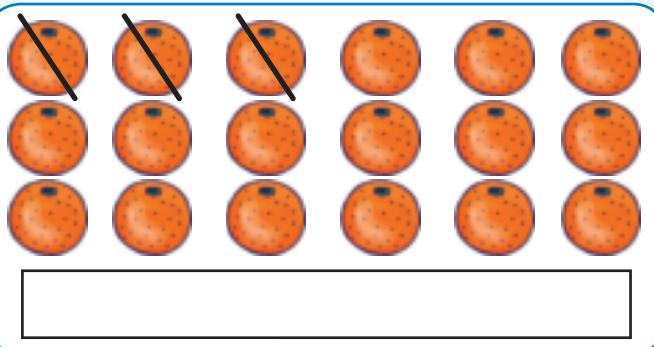
Rekanyani.

17
19
14
12

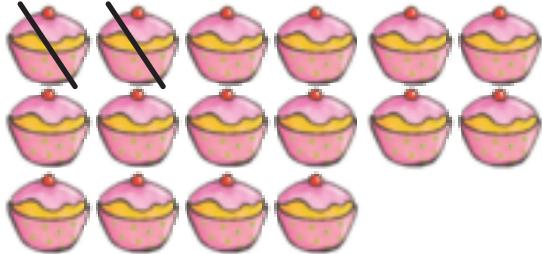




Nwalani fhungombalo.



Nwalani fhungombalo.



Rekanyani.

18
7
15
9





Fhedzisani mbalo ni tshi shumisa nyolo (zwifanyiso).

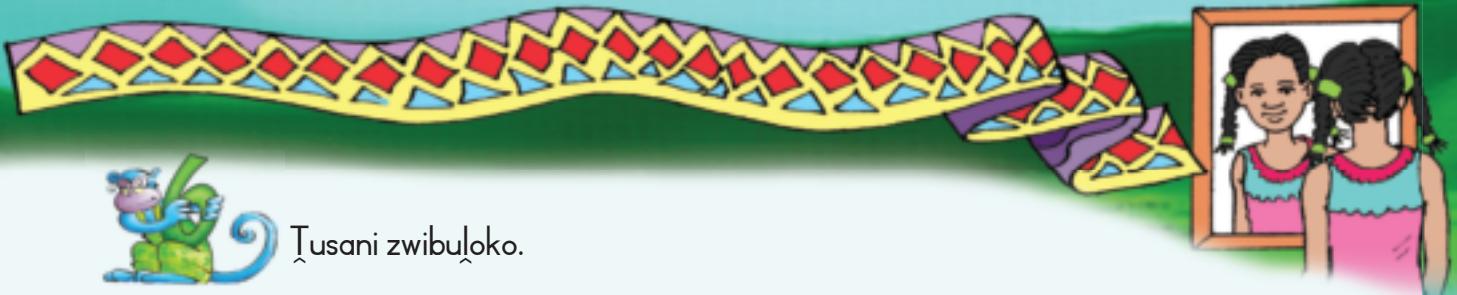


$$16 - \boxed{\quad} = \boxed{\quad}$$



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





Tusani zwibuloko.

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



Rekanyani zwi tevhelaho.

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



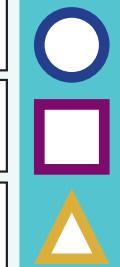
Rekanyani zwi tevhelaho.

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



Teacher:
Sign:
Date:



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Themō 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 ḥwale.

$3 + \boxed{\quad} = 8$

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



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 ṫhukhu?



80

0

1

2

3

4

5

6

7

8

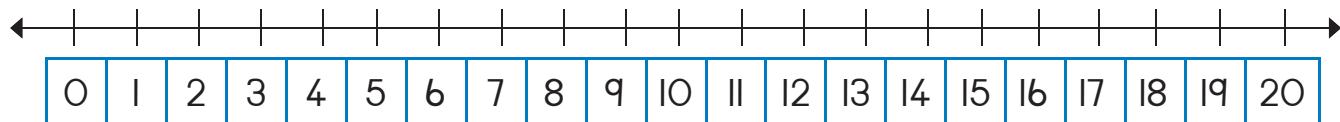
9

10

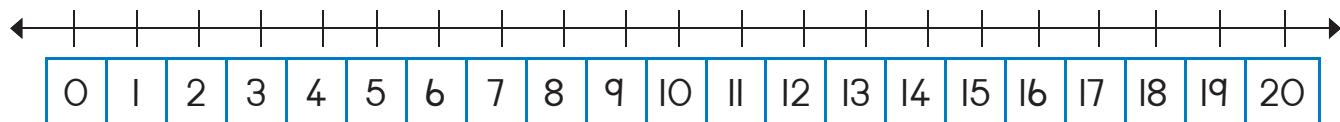


Shumisani mutualombalo kha u tandulula zwi tevhelaho:

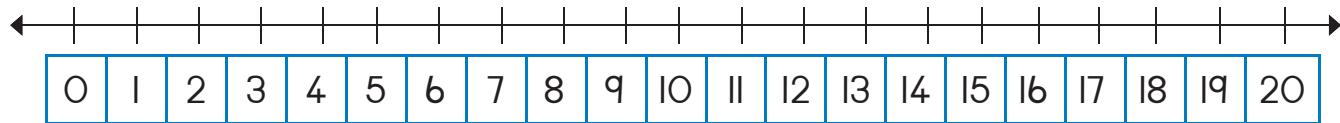
Thandi u na mimavhulu midala ya 6 na ya lutombo 9.
Una mimavhulu mingana?



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



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 vhuñga 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 vhuñuhe ndi lwa lutombo.
Lulungu lwa vhufumi ndi lutswuku.

Ndunzhedzo ya vhulungu hanga.



82



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 vhu $\ddot{\text{t}}$ anu nga muvhala wa $\ddot{\text{t}}$ ada.



Khalarani tshitendeledzi tsha vhumalo nga muvhala wa lutombo.



Itani mutualombalo wa 10 u swika kha 20.

Tangedzelani nomboro ya vhuraru na ya vhumalo.



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Date:

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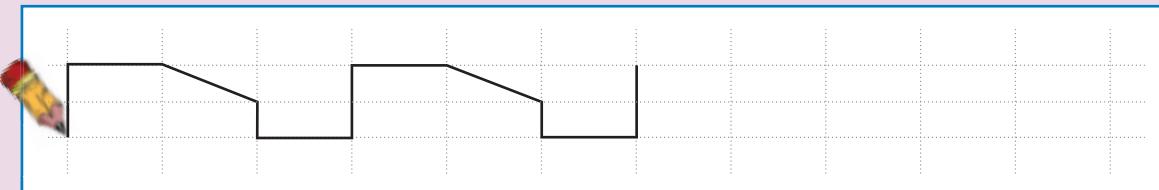


Themba 4

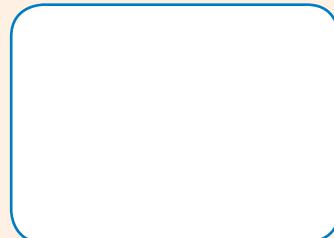
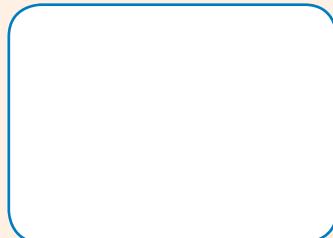
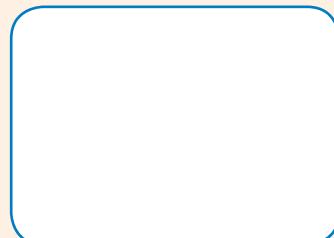
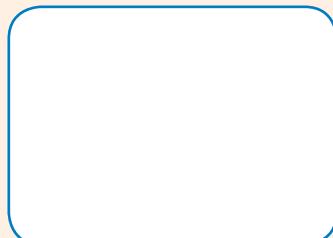
Zwithu na zwivhumbeo

Mvusuludzo:

Mvusuludzo: Fhedzisani phetheni.



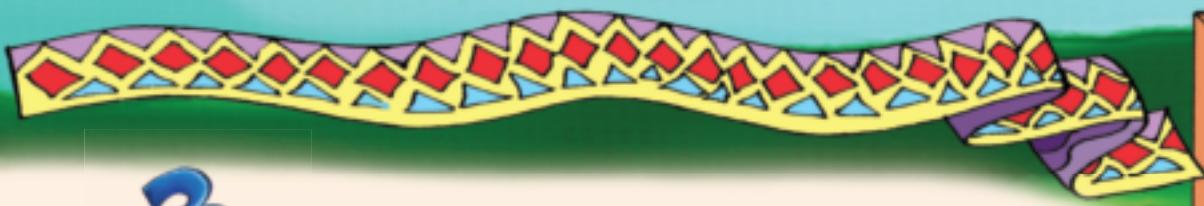
Wanani zwifanyiso zwivhili zwa bola na zwifanyiso zwivhili zwa mabogisi kha gurannda kana magazini ni zwi nambatedze afho fhasi.



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

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





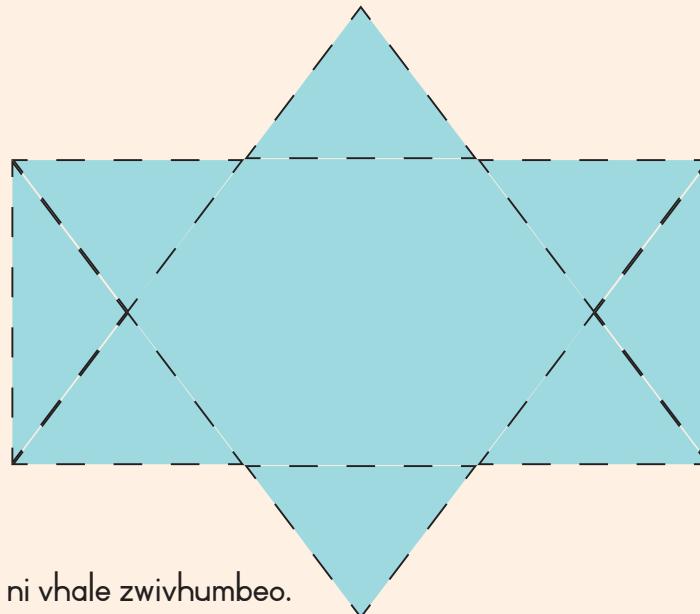
Tevhedzelani ipfi ni ole tshithu.

bogisi

bola



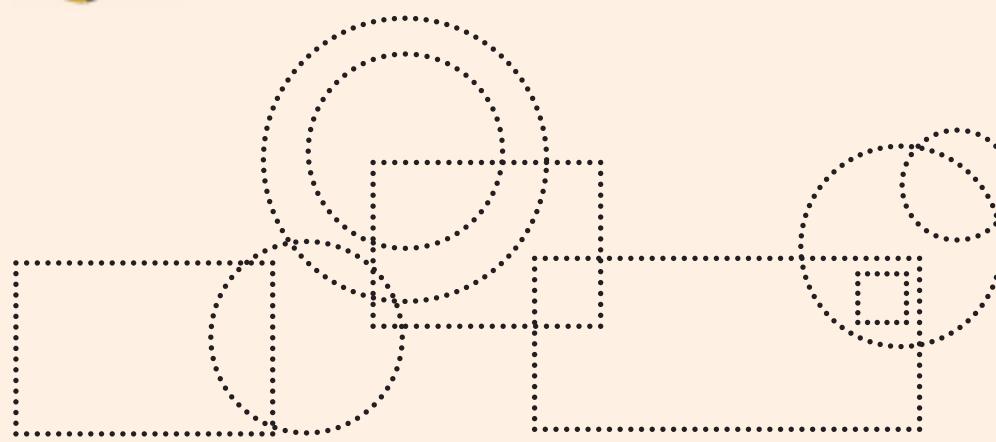
Vhalani thiraiengele dzothe ni nwale nomboro.



Phindulo:



Tevhedzelani ni vhale zwivhumbeo.



Zwitendeledzi



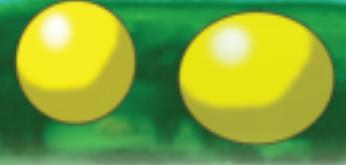
Zwikwea



Teacher:
Sign:
Date:



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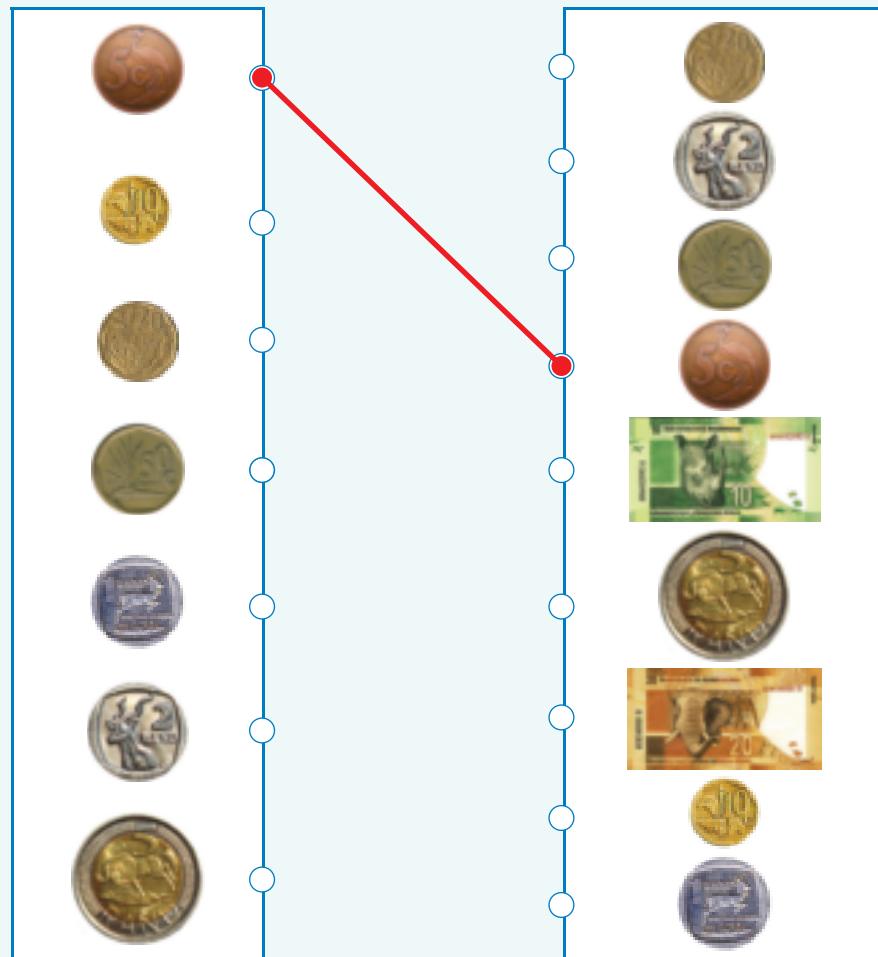
Themo ya 4



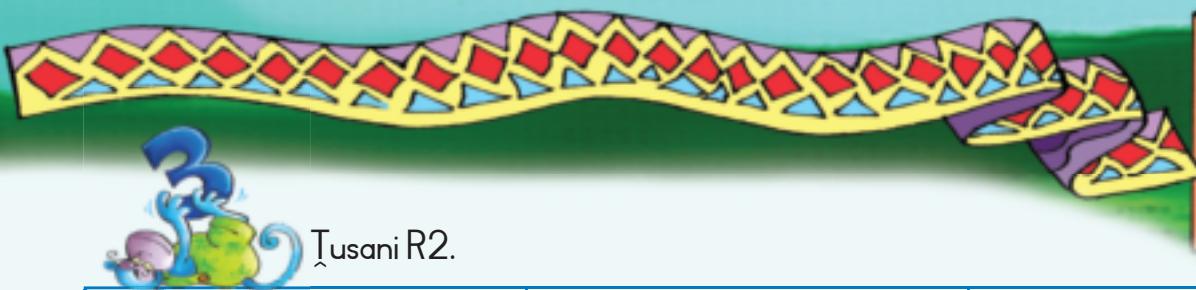
Ni nga livhanya
khoini dzifhio?



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



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



Tusani R2.

						
$RI2 - R2 = RIO$						



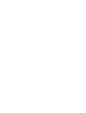
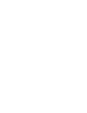
Tusani R5.

						
$RI5 - R5 = RIO$						



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

Ro dzula ro ni itela ya u thoma.

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

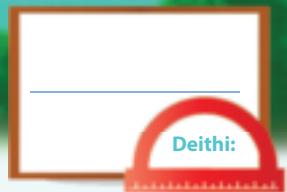


Tangedzelani khoini kha
mutaladzi muñwe na muñwe
ine na nga renga zwinzhi
ngayo.



Teacher:
Sign:
Date:



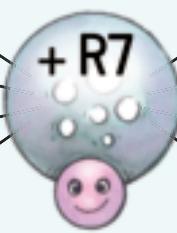


Tshelede iñwe hafhu



Rekanyani.

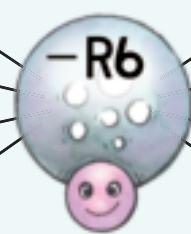
R5
R9
R7
R4





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	=
=	=	=	=





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.

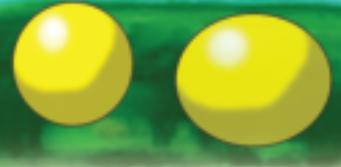
Mbudziso i ri mini?

Nwalani nomboro.

Nwalani mbalo ni i shume.



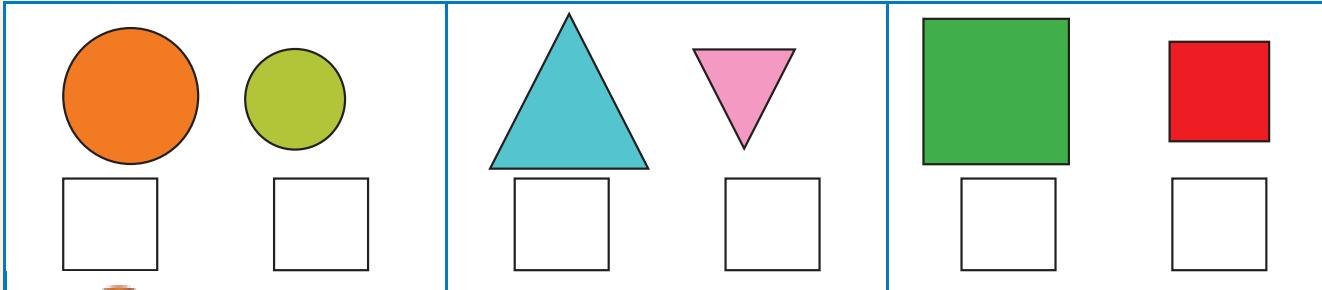
10q



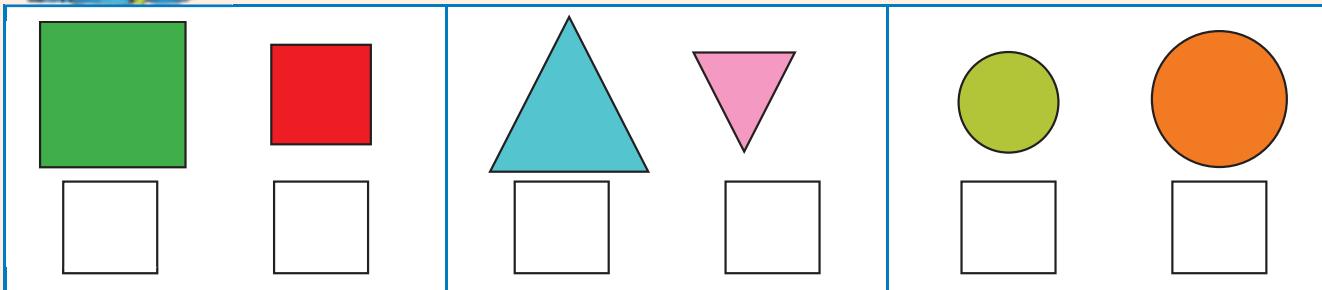
Themo ya 4



Itani thiki kha tshivhumbeo tshitukusa tshibulokoni tshiñwe na tshiñwe.

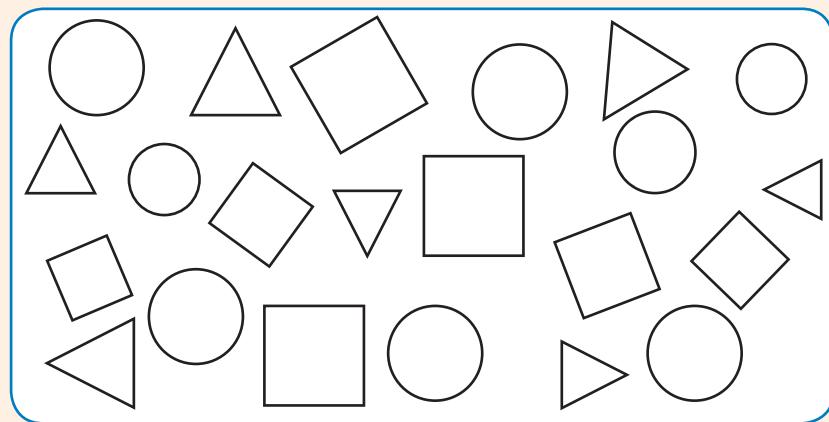


Itani thiki kha tshivhumbeo tshihulwanesa tshibulokoni tshiñwe na tshiñwe.

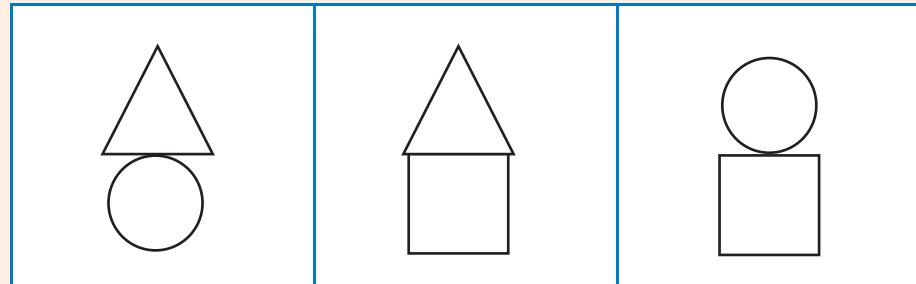


Khalarani:

- 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.



90

0

1

2

3

4

5

6

7

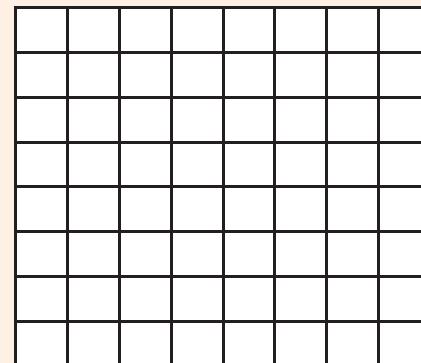
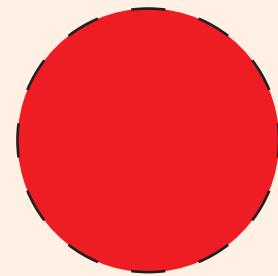
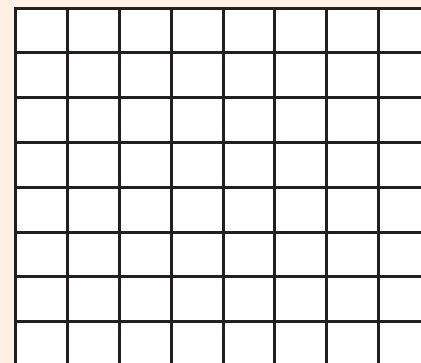
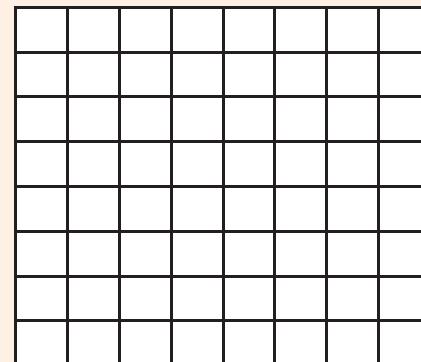
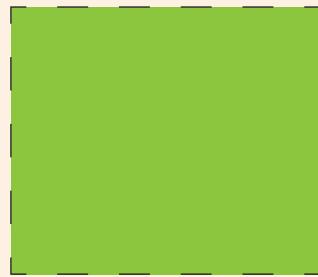
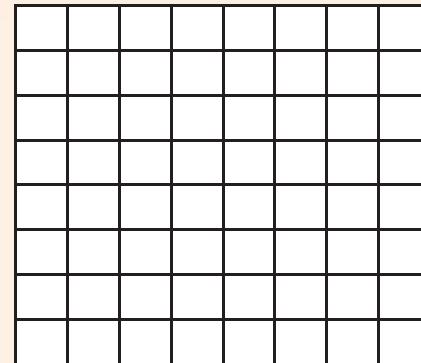
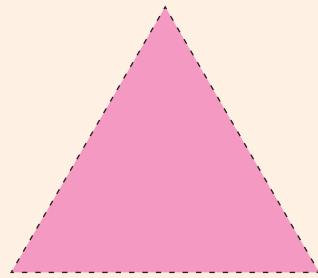
8

9

10



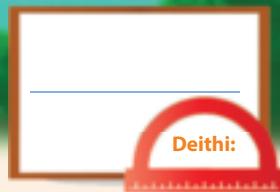
Olani zwivhumbeo kha giridi.
Shumisani zwikwea zwi^luku uri zwi ni thuse.



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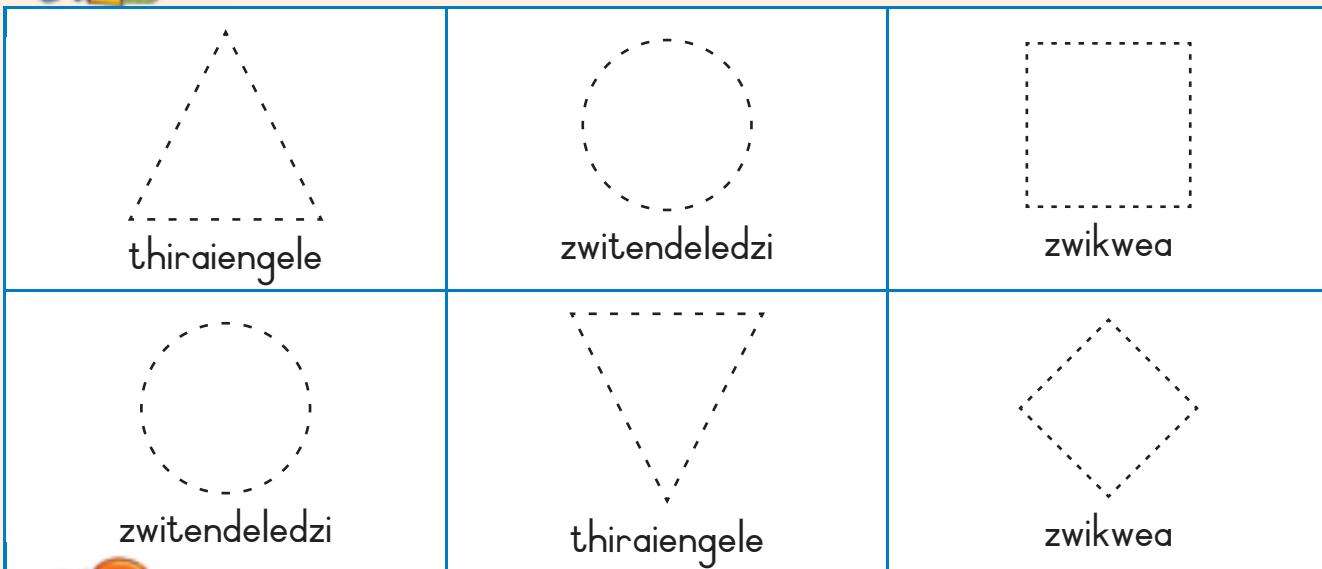


Themo ya 4

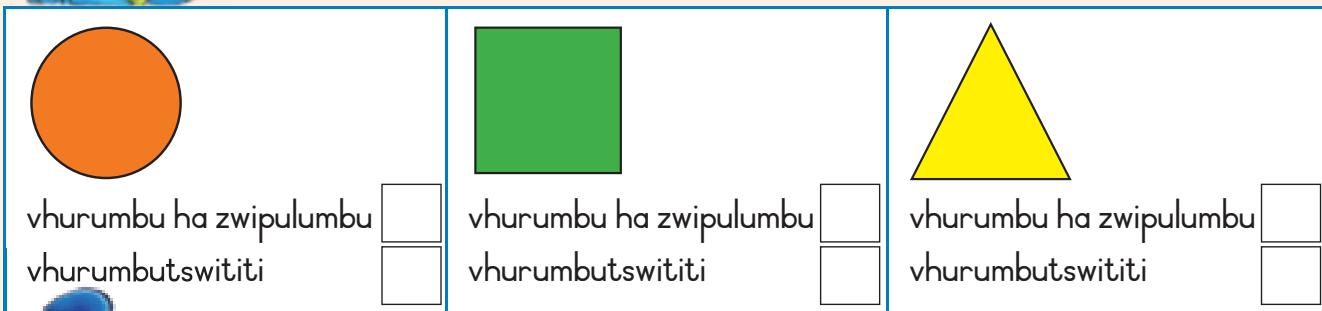


Zwivhumbeo zwa 2-D – vhurumbutswititi na vhurumbu ha zwipulumbu

Tevhedzelani zwivhumbeo zwi tevhelaho.



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

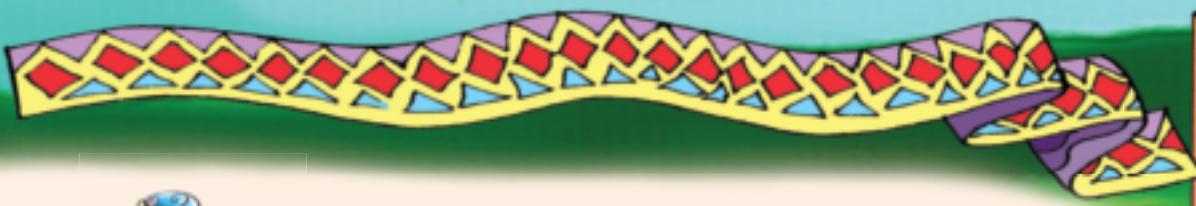


Olani tshivhumbeo nga:

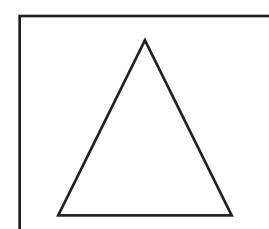
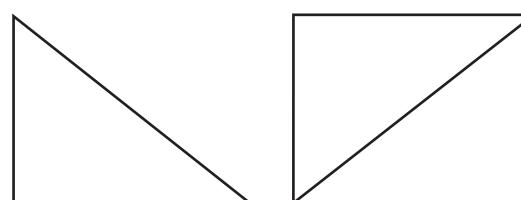
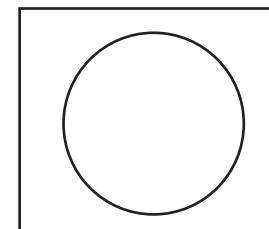
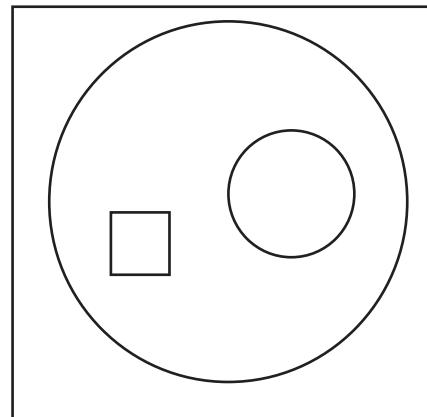
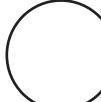


92

0 1 2 3 4 5 6 7 8 9 10



Vhalani tshivhalo tsha zwitendeledzi, zwikwea na thiraiengele.



Zwitendeledzi

Zwikwea

Thiraiengele



Wanani tshifanyiso kha magazini tsha tshithu tshi re na:

vhurumbu ha zwipulumbu

vhurumbutswititi



Teacher:
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Date:



III

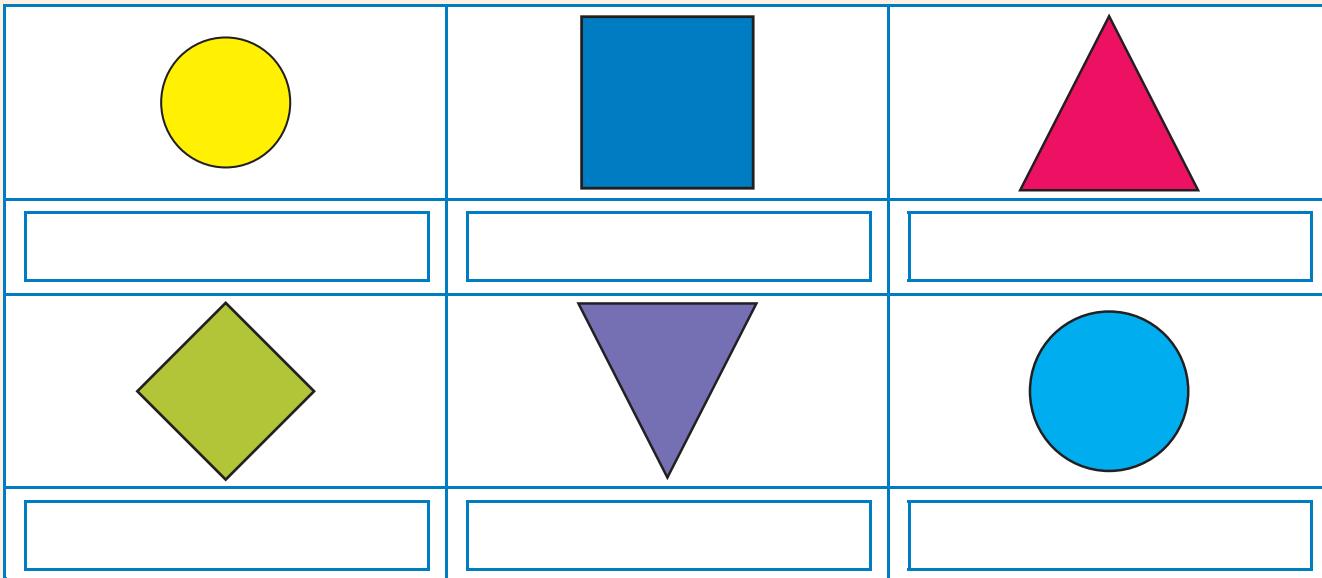


Zwiñwe zwivhumbeo zwa 2-D

Themo ya 4



Bulani madzina a zwivhumbeo zwi tevhelaho:



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



94

0

1

2

3

4

5

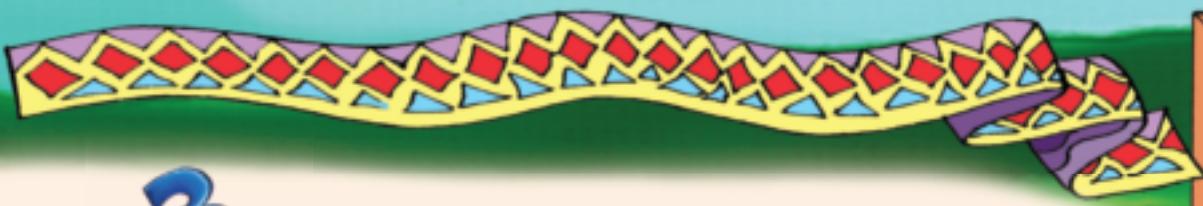
6

7

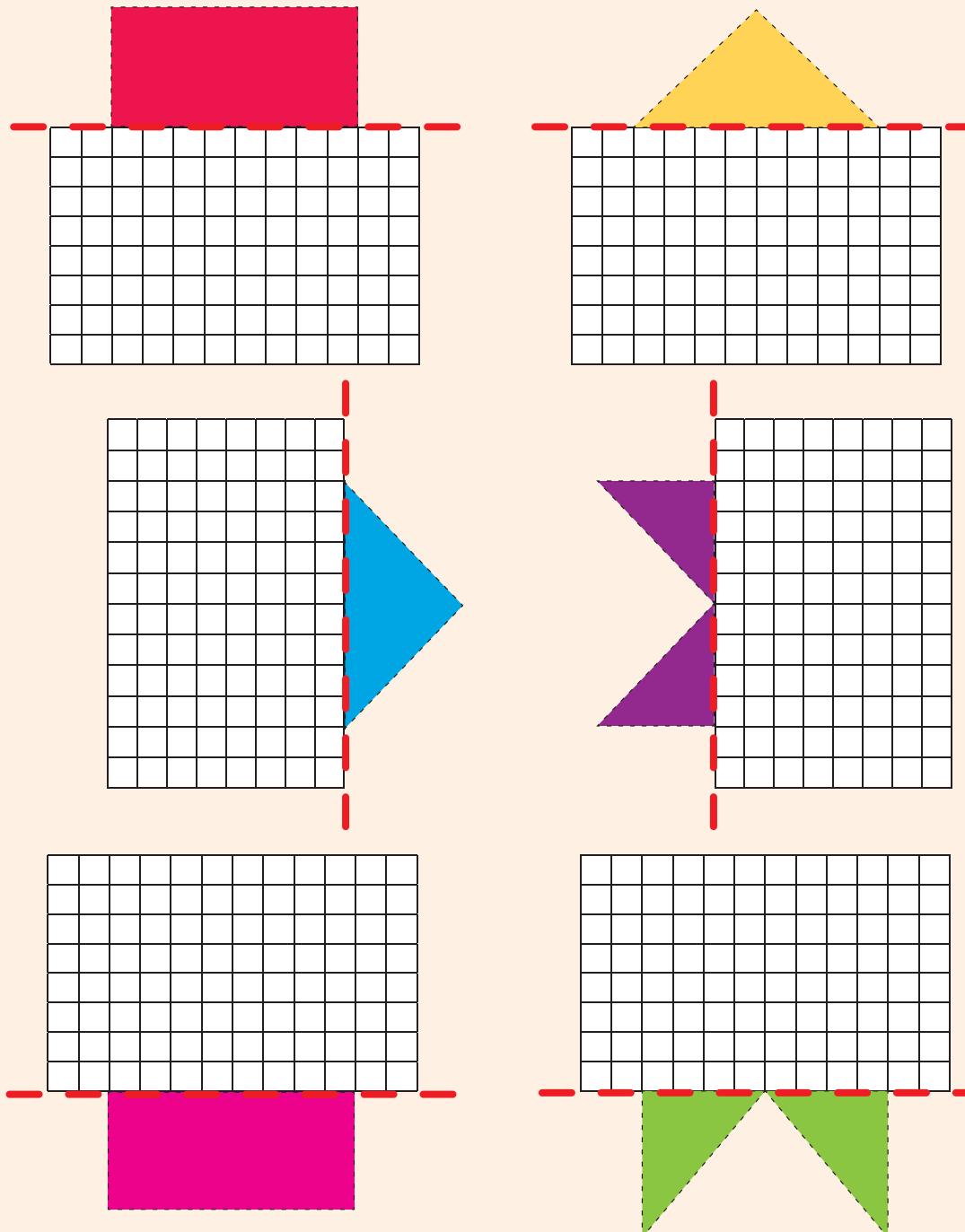
8

9

10



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



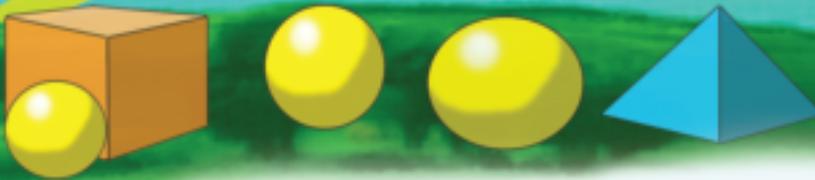
Zwołhe zwi na vhurumbutswititi na vhurumbu ha tshipulumbu.



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Date:



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Themoo ya 4



Zwigwada zwa ḫthanu u swika kha 20

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

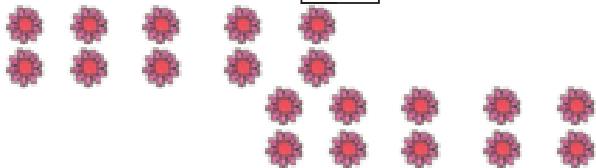
tshigwada tsha | tsha zwa 5



zwigwada zwa zwa zwa 5



zwigwada zwa zwa zwa 5



zwigwada zwa zwa zwa 5



Vhalani tshivhalo tsha minwe. Nwalani phindulo yanu.



$5 + 5 + 5 =$



$5 + 5 + 5 + 5 =$



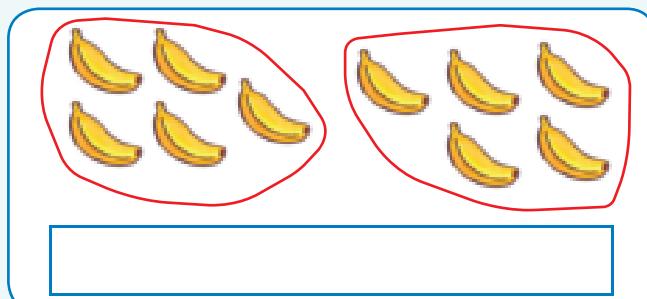
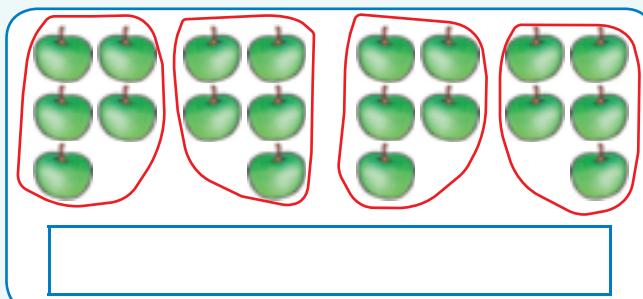
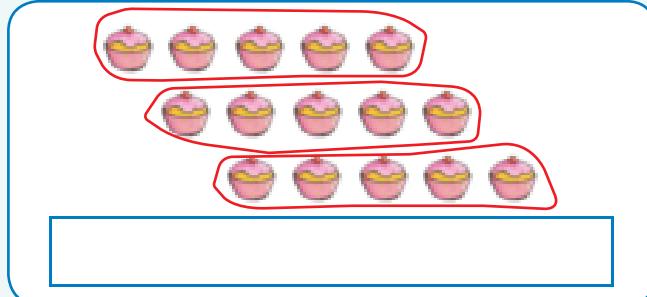
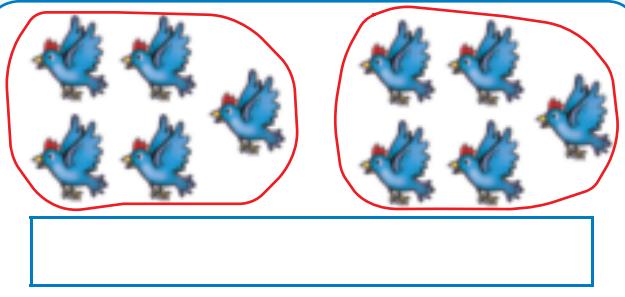
$5 + 5 + 5 + 5 + 5 =$



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



Nwalani fhungombalo la zwi tevhelaho:



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	

II I2 I3 I4 I5 I6 I7 I8 I9 20



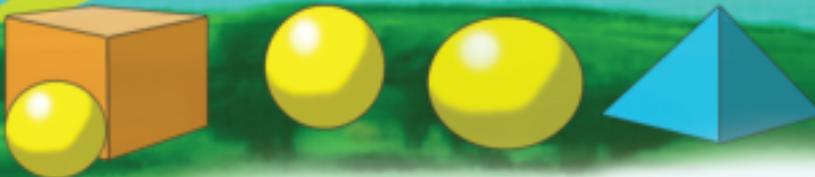
Teacher:

Sign:

Date:



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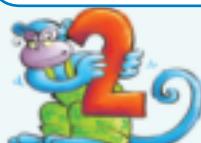
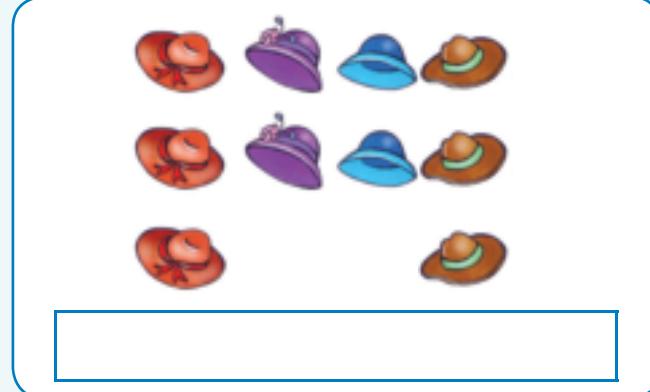
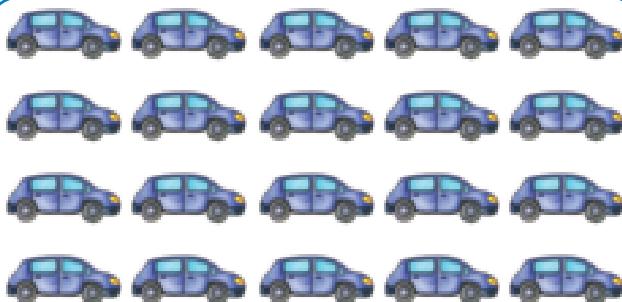


Themo ya 4



Thanu – ndovhololo ya mu^langanyo wa u swika kha 20

Itani zwigwada zwa zwitanuzvitatu ni nwale fhungombalo.



Olani zwigwada zwa zwivhumbeo ni tshi sumbedza mafhungombalo.

$$5 \quad + \quad 5 \quad + \quad 5 = \quad \square$$

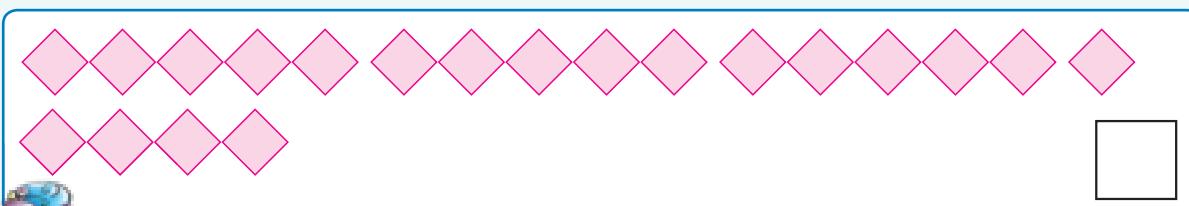
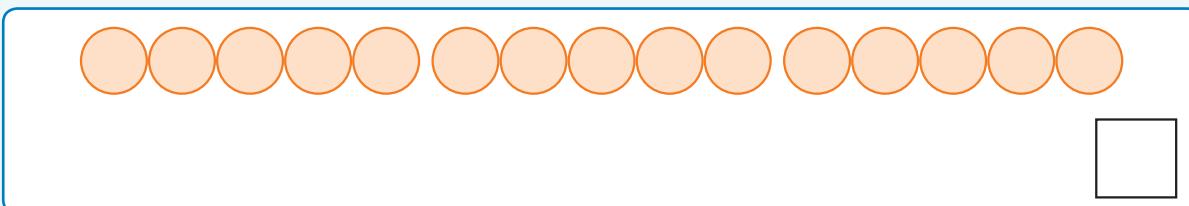
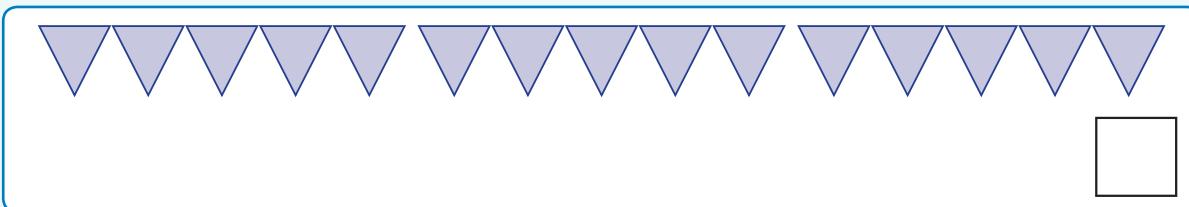
$$5 \quad + \quad 5 \quad + \quad 5 \quad + \quad 5 = \quad \square$$



3

Nwalani fhungombalo la zwi tevhelaho.


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



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

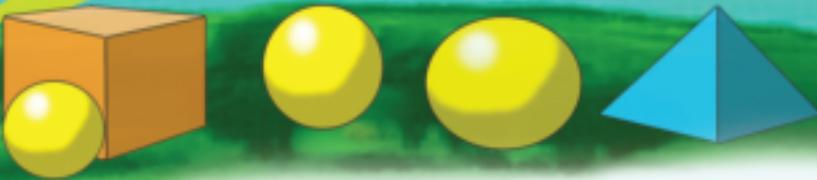


Hu na zwanda zwa 3 kha fasitere. Hu na minwe mingana kha fasitere?

Olani tshifanyiso ni nwale fhungombalo.



14

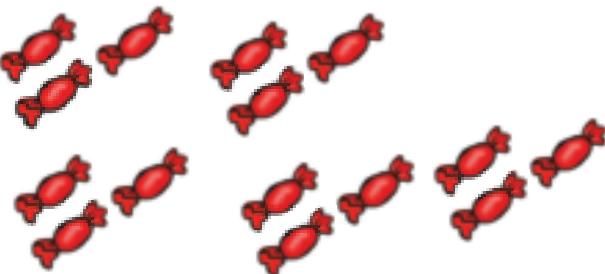
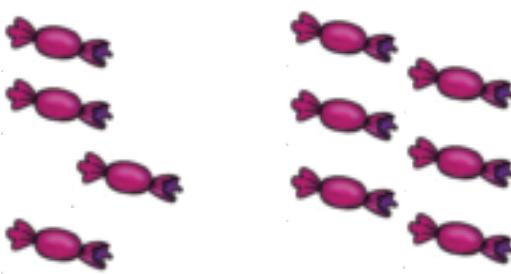
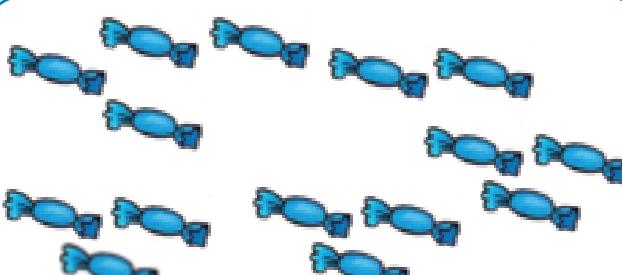
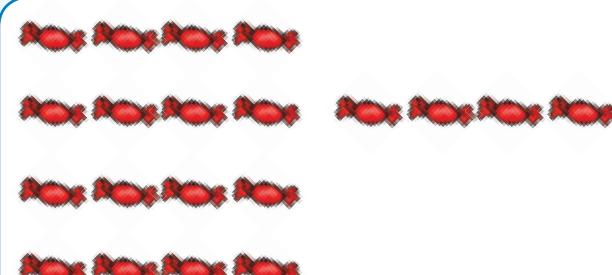


Themo ya 4



Kovhelani khonani t̄hanu malegere.

Muñwe na muñwe wavho u do wana malegere mangana?

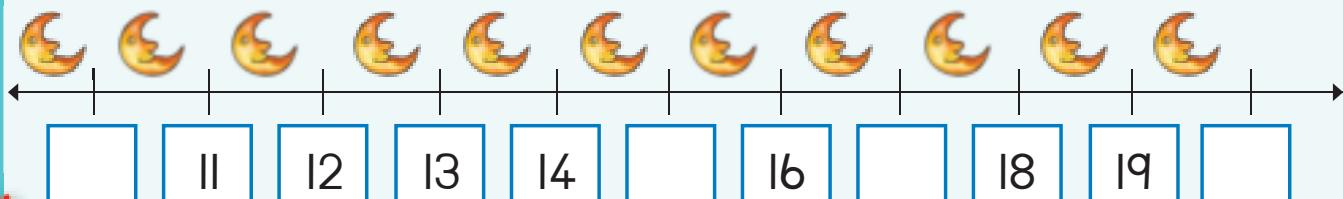
Muñwe na muñwe wavho u do
wana malegere a
Muñwe na muñwe wavho u do
wana malegere a
Muñwe na muñwe wavho u do
wana malegere a
Muñwe na muñwe wavho u do
wana malegere a


Khalarani nyandiso dza t̄hanu.

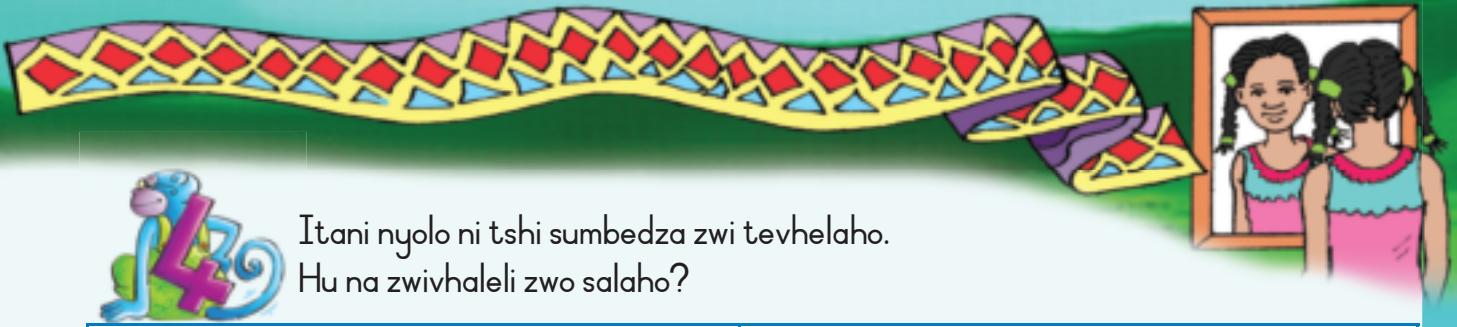
I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	20



Nwalani nomboro dzi no khou t̄ahela.



100 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.

Ho sala zwivhaleli zwa .

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

Ho sala zwivhaleli zwa .

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

Ho sala zwivhaleli zwa .

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

Ho sala zwivhaleli zwa .



Nwalani fhungombalo la zwi tevhelaho:



$$5 + 5 =$$









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Phetheni dza nomboro – t̄hanu u swika kha 100



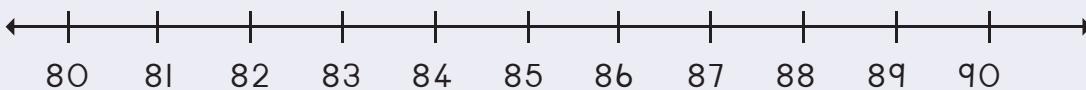
Fhedzisani phetheni nga u khala nyandiso dza t̄hanu.

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:

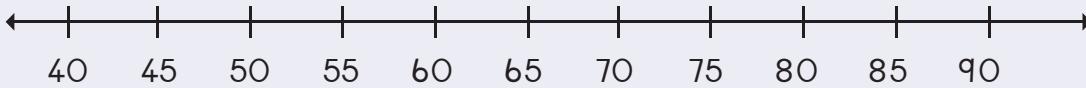
86, 88, 90



70, 75, 80



55, 60, 65, 70



Shumisani watshi kha u sumbedza u vhala miminete nga miyanumiyanu.

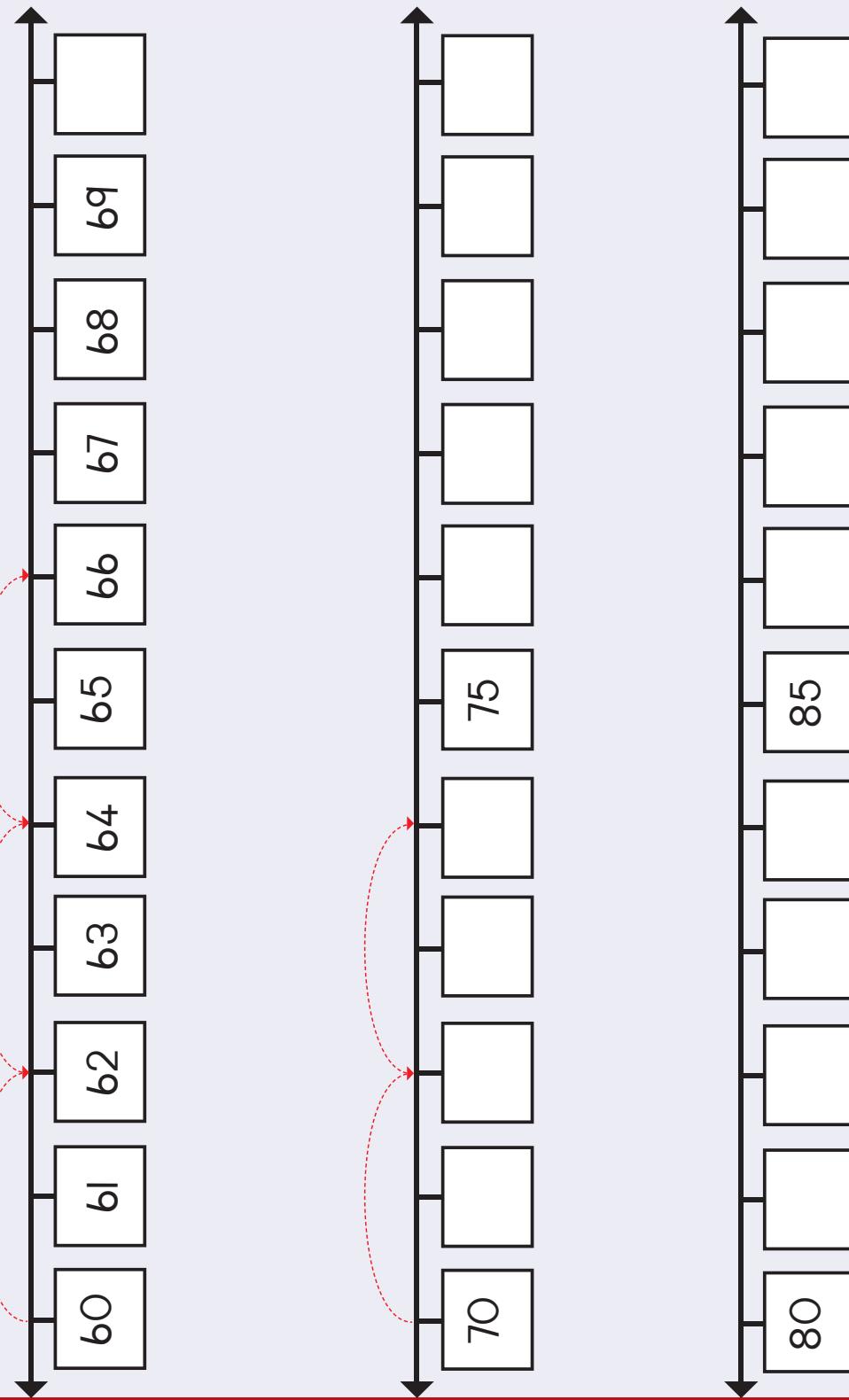


102

0 | 2 3 4 5 6 7 8 9 10

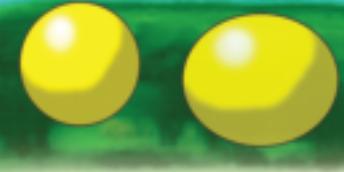


Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2
ni dzi vhee kha mutalombalo.
Ni ite na u fhedzisa dzihupu.



Teacher:
Sign:
Date:

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Themo ya 4



Livhanyani phanda na murahu ha tshipuka tshiñwe na tshiñwe.

Vhuimo na mbonalo

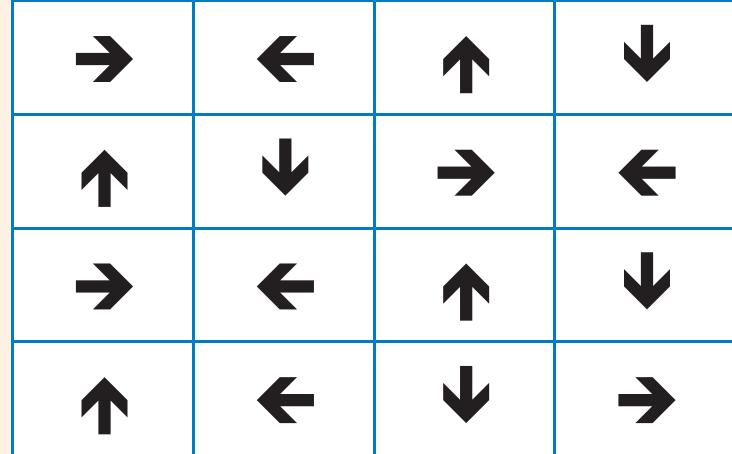
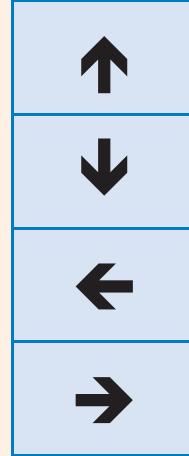
Phanda

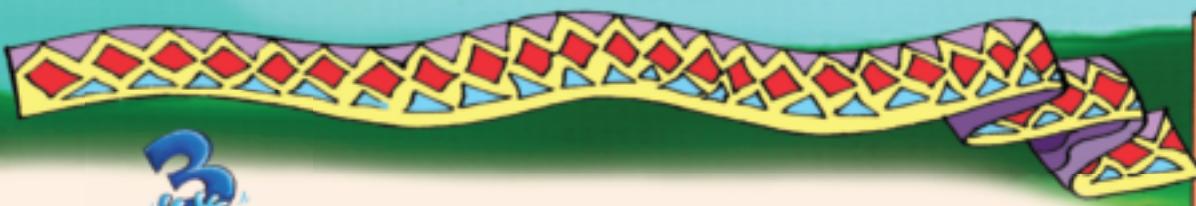


Murahu

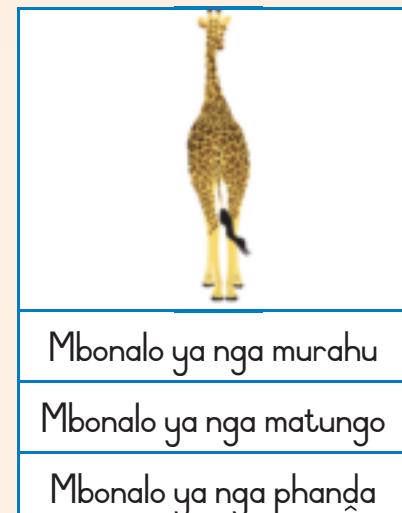
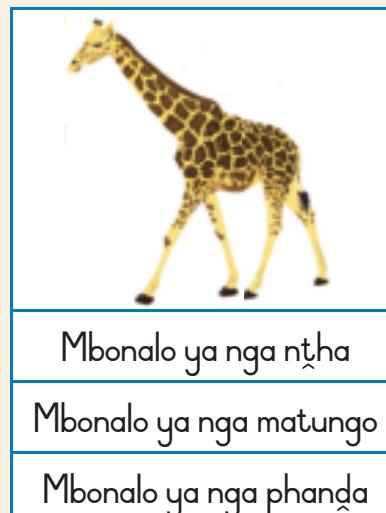
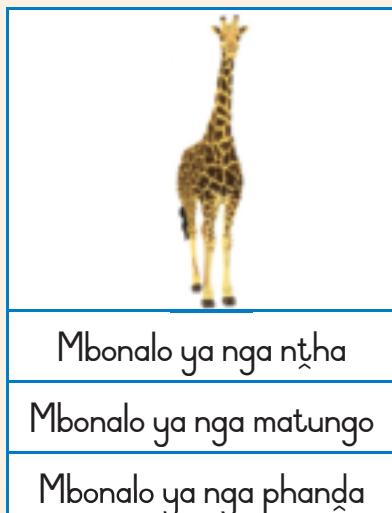


Tangedzelani musevhe u no yelana na musevhe u re tshibulokoni tsha lutombo.





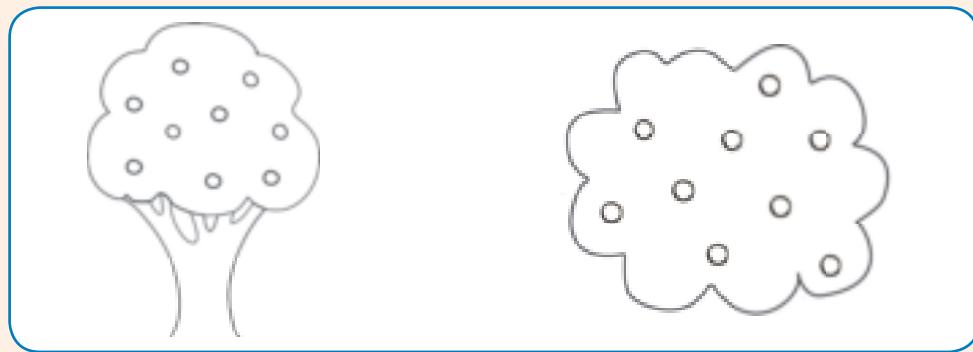
Khalarani mbonalo yone.



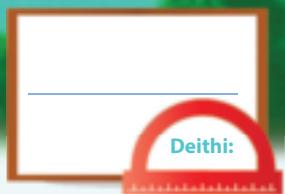
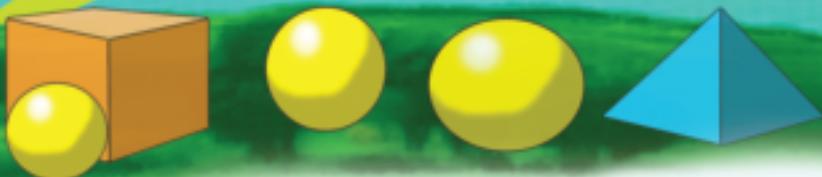
Tshimange tshi ngafhi?
Khalarani phindulo i re yone.



Lavhelesani zwifanyiso
zwa muri.
Khalarani mbonalo ya
nga nt̄ha.



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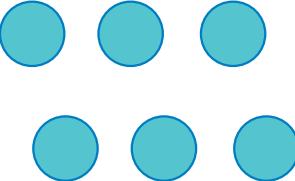
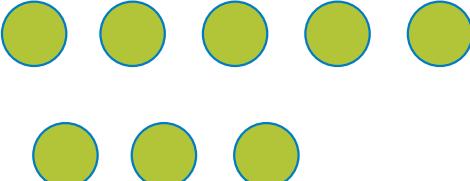
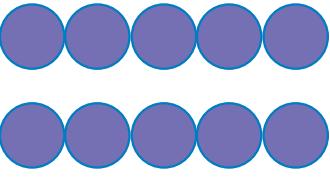
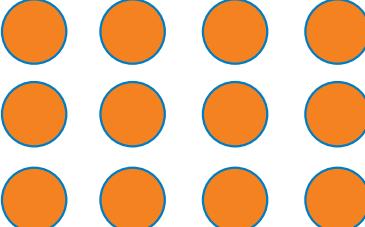
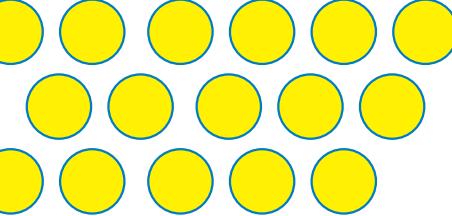
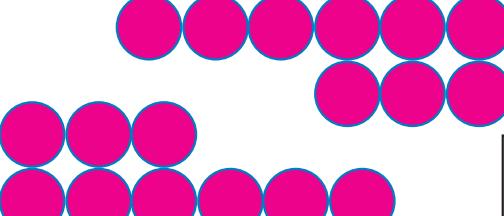


Themo ya 4



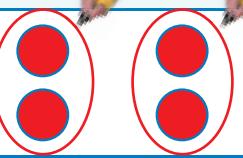
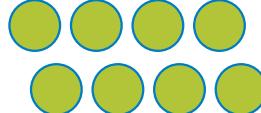
Zwigwada zwa mbili u swika kha 20

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

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



Itani zwigwada zwa zwivhili. Olani zwigwada.



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Fhindulani mbudziso.



Hu na zwingoni zwingana?

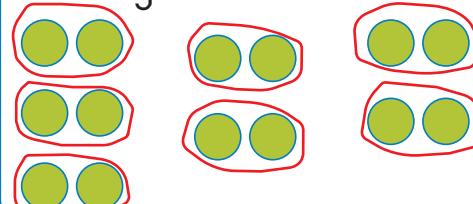
Ni nga ita zwigwada zwingana zwa zwivhili?

Nwalani fhungombalo.



Itani
zwitendeledzi ni
tshi vhumba zwi
tevhelaho.

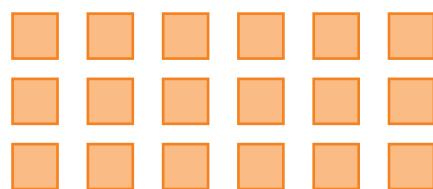
Zwigwada zwa 7 zwa 2



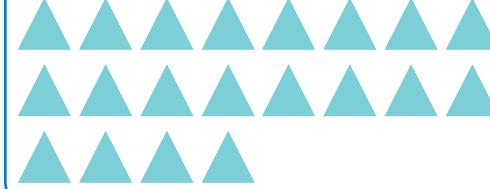
Zwigwada zwa 8 zwa 2



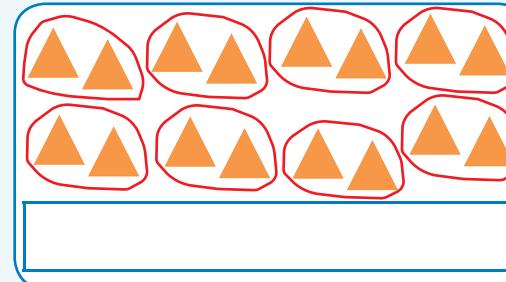
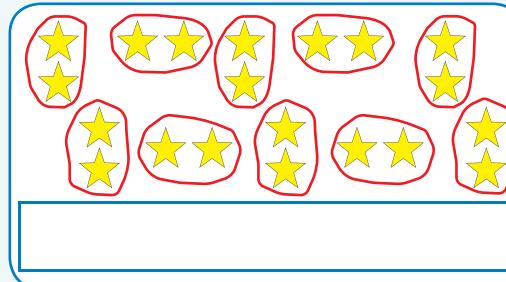
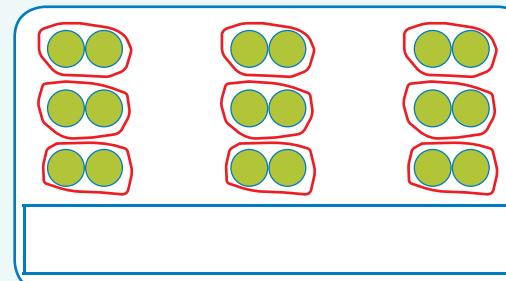
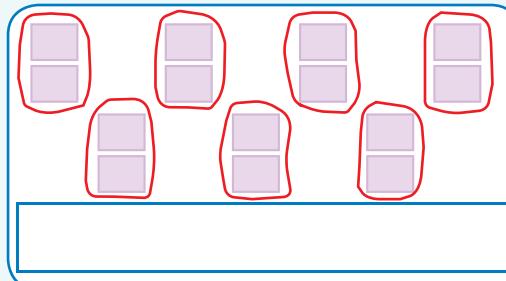
Zwigwada zwa 9 zwa 2



Zwigwada zwa 10 zwa 2



Nwalani
fhungombalo ja
zwi tevhelaho.





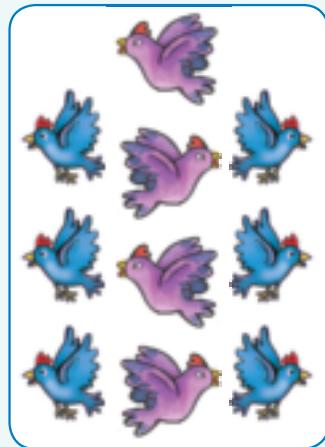
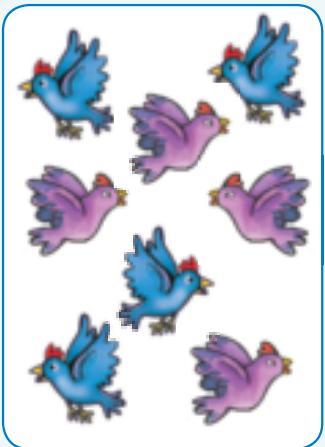
Deithi:

Mbilimbili – ndovhololo ya mučanganyo u swika kha 20



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

Theme Ya 4



Oiani zwivhumbeo zwa zwi tevhelaho:

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



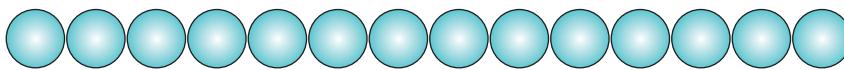
$$\boxed{2} + \boxed{2} =$$

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

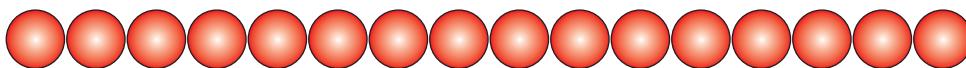


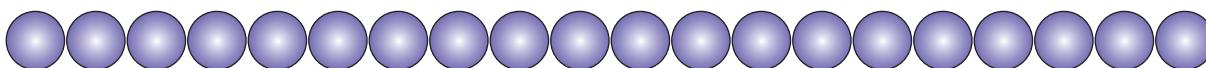


Nwalani fhungombalo la zwi tevhelaho:



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









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 .



||q



Themo ya 4



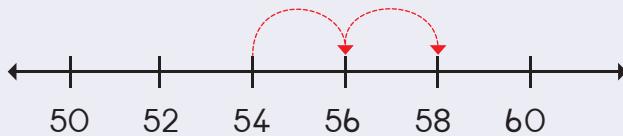
Fhedzisani phetheni nga u khalara nomboro dzone.



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

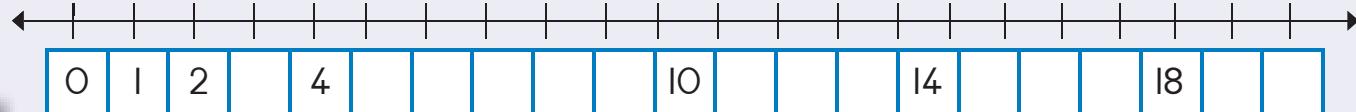


Nwalani nomboro dzi no khou ṭahela. Khaṭlarani phetheni: 2, 4...

I			3				7			10
II							17			20



Fhedzisani mutalombalo.



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



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

A vertical stack of seven rectangular boxes, each containing a number from 80 to 89. The numbers increase from bottom to top. A red dashed arrow points from the bottom box up to the fourth box.

89
87
85
83
81
80

A vertical stack of seven rectangular boxes, each containing a label: q0, q1, q3, q5, q7, qq, and q9. The boxes are arranged from bottom to top. A dashed red arrow points from the bottom of the q0 box to the top of the q1 box.



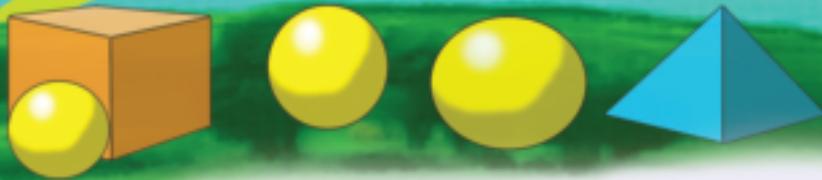
Teacher:
Sign:

Date:



A horizontal ruler scale with major tick marks labeled from 11 to 20. The labels are in a bold, sans-serif font. The numbers 12, 13, 17, 18, and 20 are colored green, while 14, 15, 16, and 19 are colored blue. There are also many smaller, unlabeled tick marks between each labeled number.

120

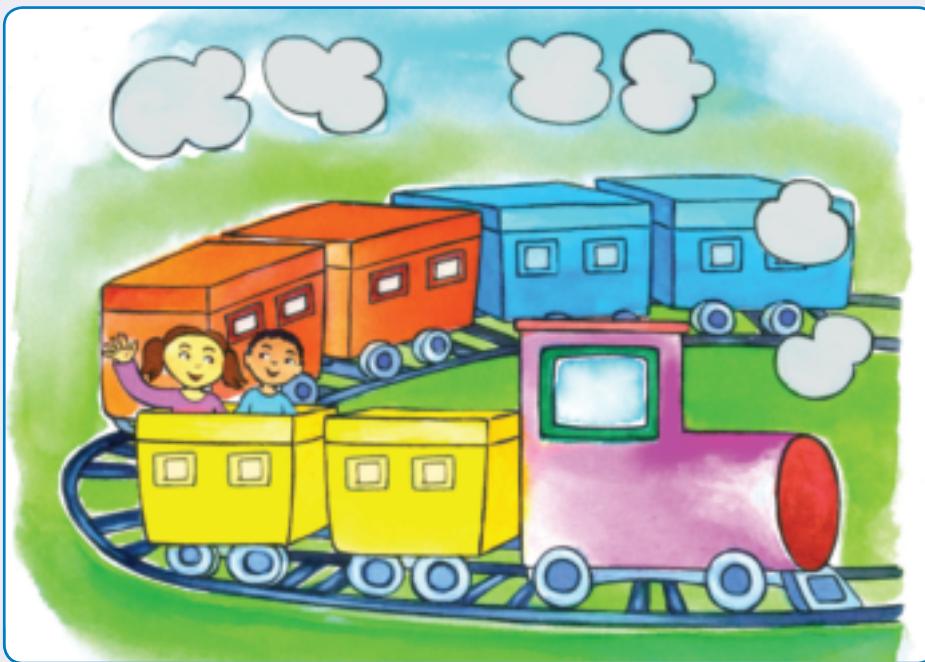


Themo ya 4



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.



112

0

4

4

2

3

4

5

6

7

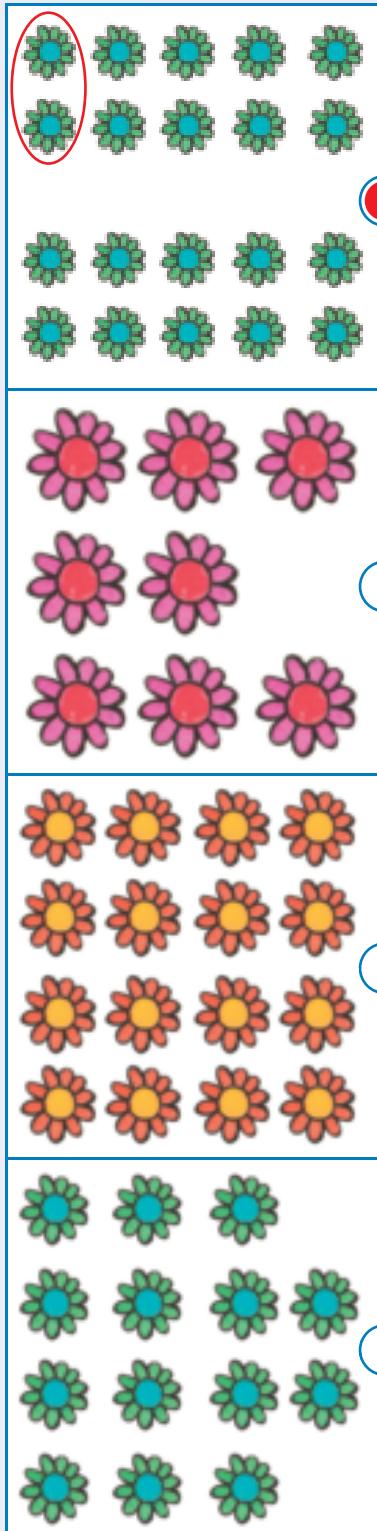
8

9

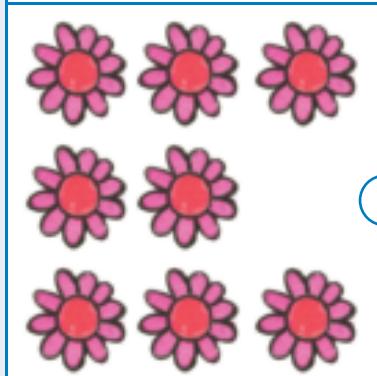
10



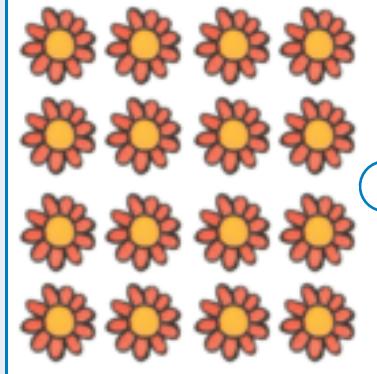
Livhanyani zwigwada zwa zwivhilizwvhili na fhungombalo nge na tala mutalo.



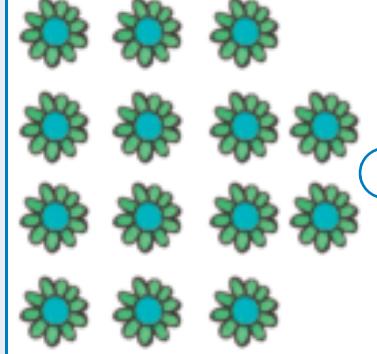
$$2 + 2 + 2 + 2 = 8$$



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



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



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



Teacher:
Sign:
Date:



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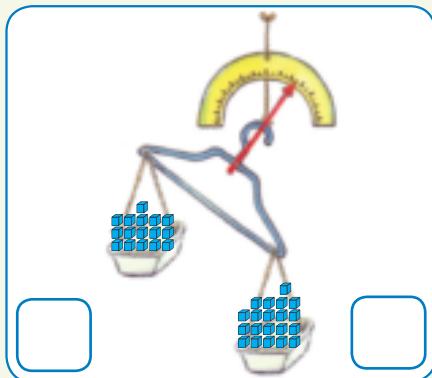
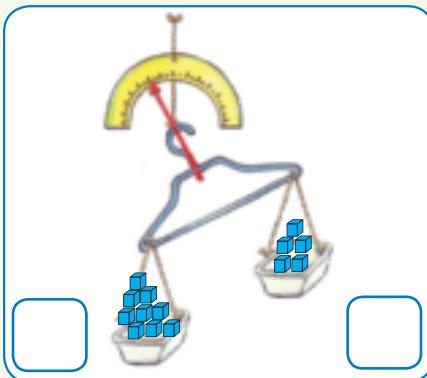
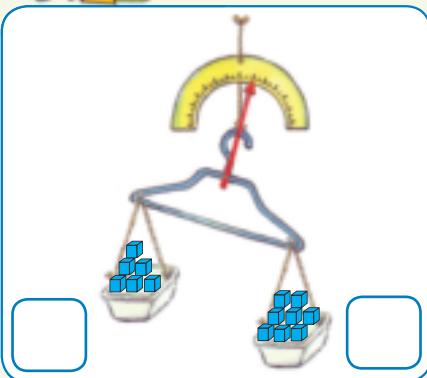


Themo ya 4

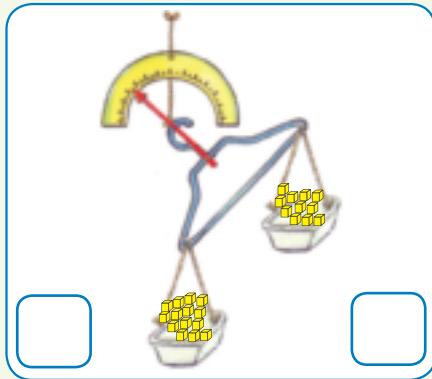
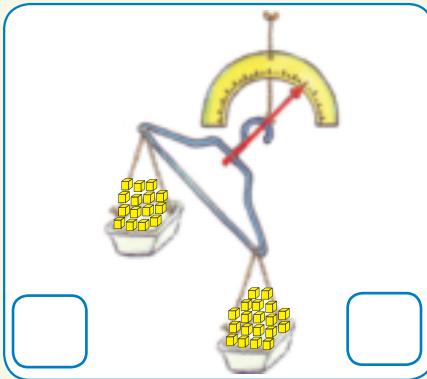
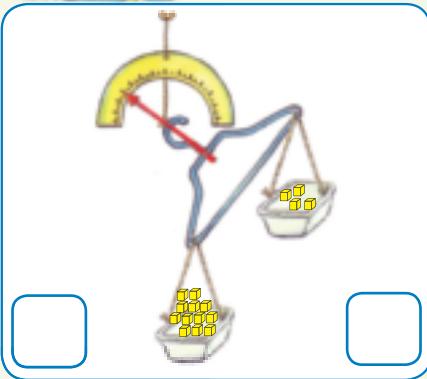
Tshileme



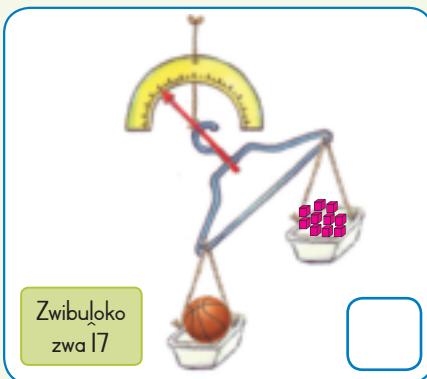
Nwalani uri hu na zwibuloko zwingana kha tshifaredzi tshiñwe na tshiñwe.
Tangedzelani tshifaredzi tshi no lemelesa.



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

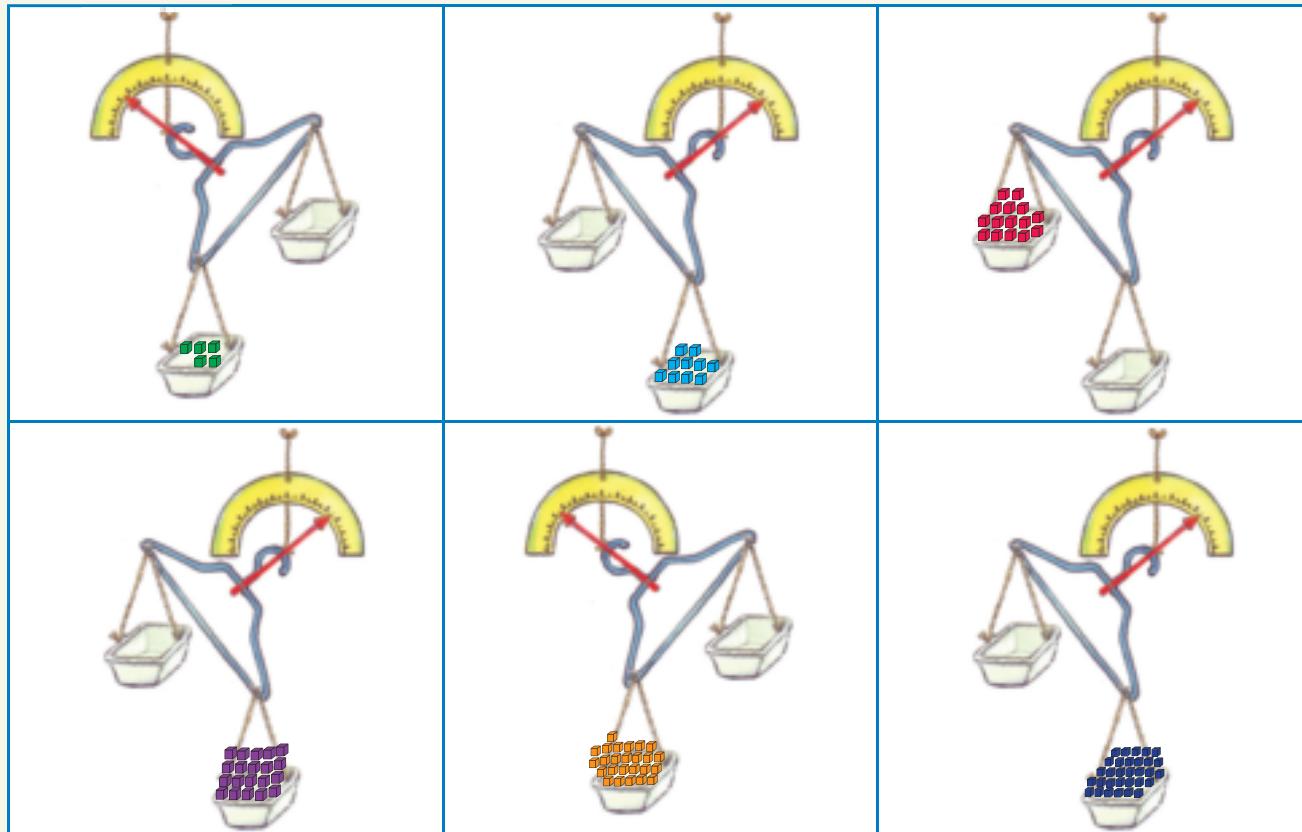


Vhalani uri hu na zwibuloko zwingana. Ni wane uri hu todea zwiñwe zwibuloko zwingana zwa u engedza nga nt̄ha u itela u balantsa thoyi. Ro ni vhudza uri thoyi i lemela zwibuloko zwingana.





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



Shumisani zwithu zwa 5 zwi re disiken iyanu. Thomanu 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.

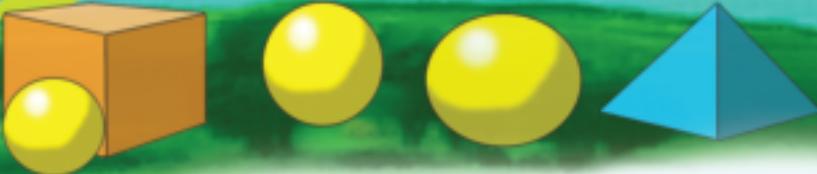
Olani tshithu	Humbulelani	Tshileme	Phambano
zwibuloko zwa ____	zwibuloko zwa ____	____ - ____ = ____	



Teacher:
Sign:
Date:



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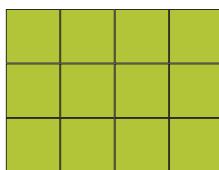


Themo ya 4

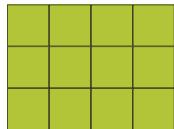
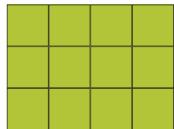


Fhindulani zwi tevhelaho:

Hu na zwikwea zwingana?



Hu na zwingana zwino?



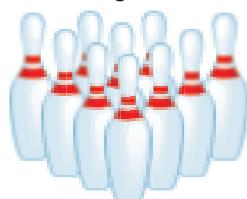
Hu na milenzhe mingana?



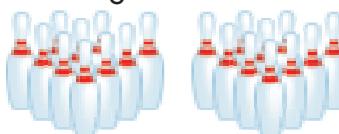
Hu na milenzhe mingana zwino?



Hu na zwikitili zwingana?



Hu na zwikitili zwingana zwino?



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

Hu na khirayoni nngana?



Hu na khirayoni nngana zwino?



Ri ri 8 yo ingwa kavhili ndi



0

1

2

3

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.

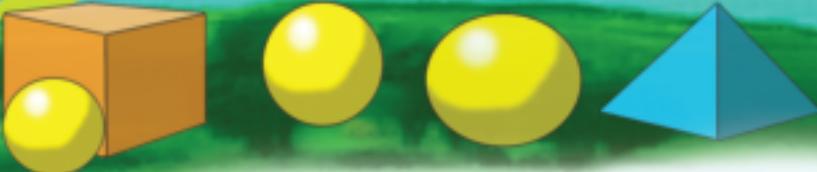
$9 + 9 + 1 =$	<input type="text"/>	kana	Ho ingwa kavhili $9 + 1 =$	<input type="text"/>
	<input type="text"/>	kana	Ho ingwa kavhili $8 + 1 =$	<input type="text"/>
$10 + 10 + 1 =$	<input type="text"/>	kana		<input type="text"/>
$7 + 7 + 1 =$	<input type="text"/>	kana	Ho ingwa kavhili $7 + 1 =$	<input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



Teacher: _____
Sign: _____
Date: _____



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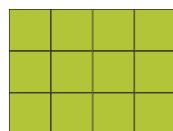
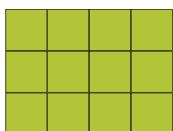


Themoo ya 4

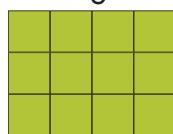


Findulani zwi tevhelaho:

Hu na zwikwea zwingana?



Hu na zwikwea zwingana zwino?



Ri ri hafu ya 24 ndi 12.

Hu na milenzhe mingana?

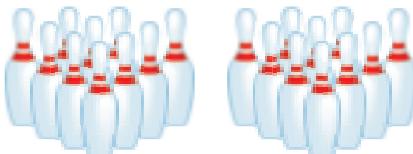


Hu na milenzhe mingana zwino?

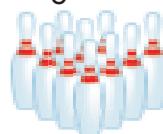


Ri hafu ya 12 ndi

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 iṇa ndi	mbili
Hafu ya rathi ndi	
Hafu ya mbili ndi	
Hafu ya malo ndi	
Hafu ya fumi ndi	



Nwalani phindulo.

Hafu ya 10 ndi	5
Hafu ya 12 ndi	
Hafu ya 14 ndi	
Hafu ya 16 ndi	
Hafu ya 18 ndi	



Teacher:
Sign:
Date:



I24

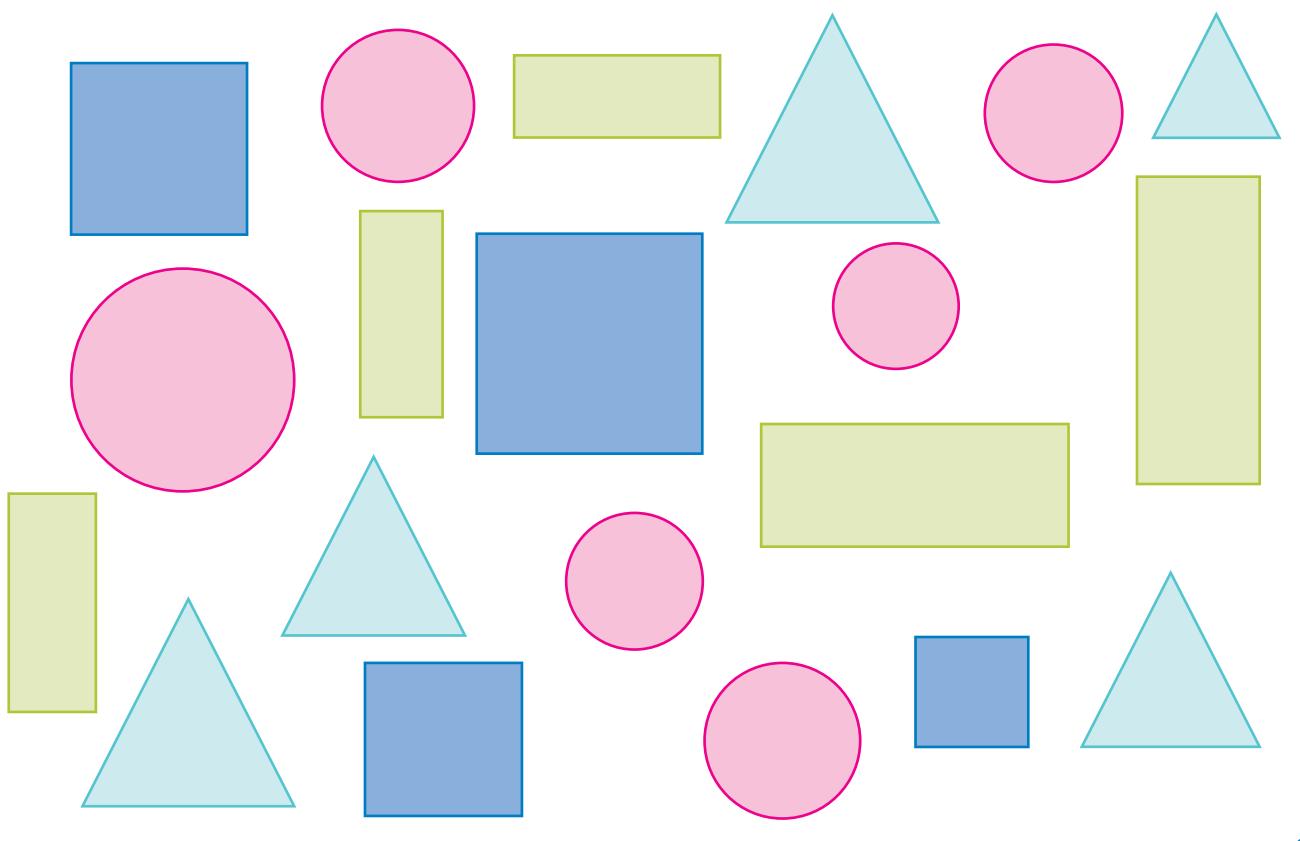


Themo ya 4

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

Data

Deithi:



1. Hu na zwikwea zwingana?



2. Hu na thiraiengele nngana?



3. Hu na rekithiengele nngana?



4. Hu na zwiendeledzi zwingana?



I20



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 =



Zwitoroberi	Maapula	Mapiere	Miomva	Maswiri

Ndi vhana vhangana vha no funesa zwitoroberi?	
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?	



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.

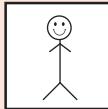
Thoyi	Nomboro (Tshivhalo)
Mipopi	
Matiraka	
Thedibee	
Roboto	



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 =



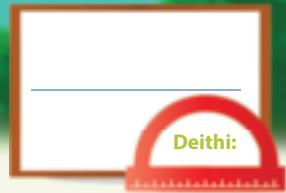
Mipopi	Matiraka	Thedibee	Roboto



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?	





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



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

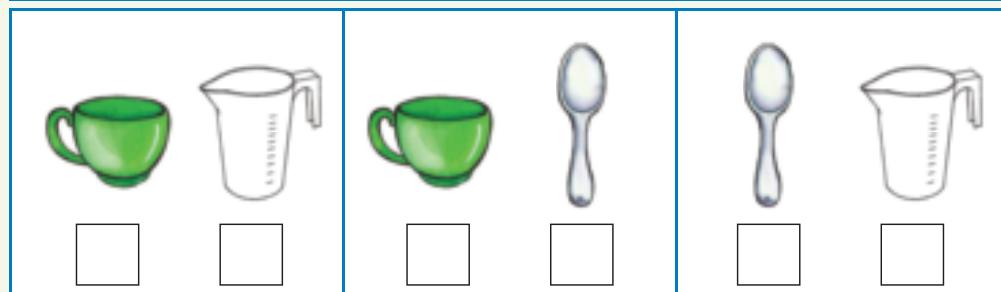
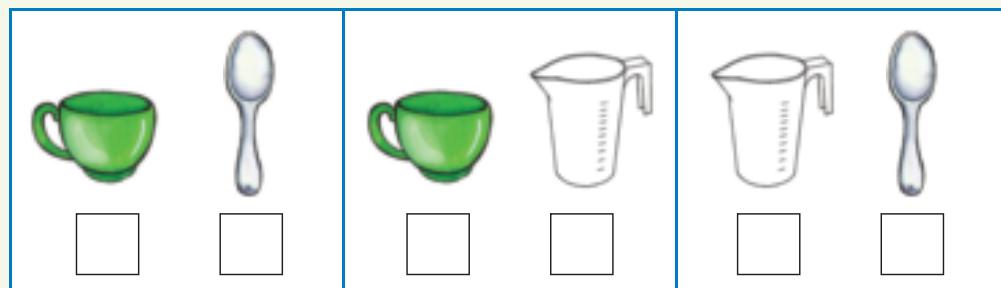
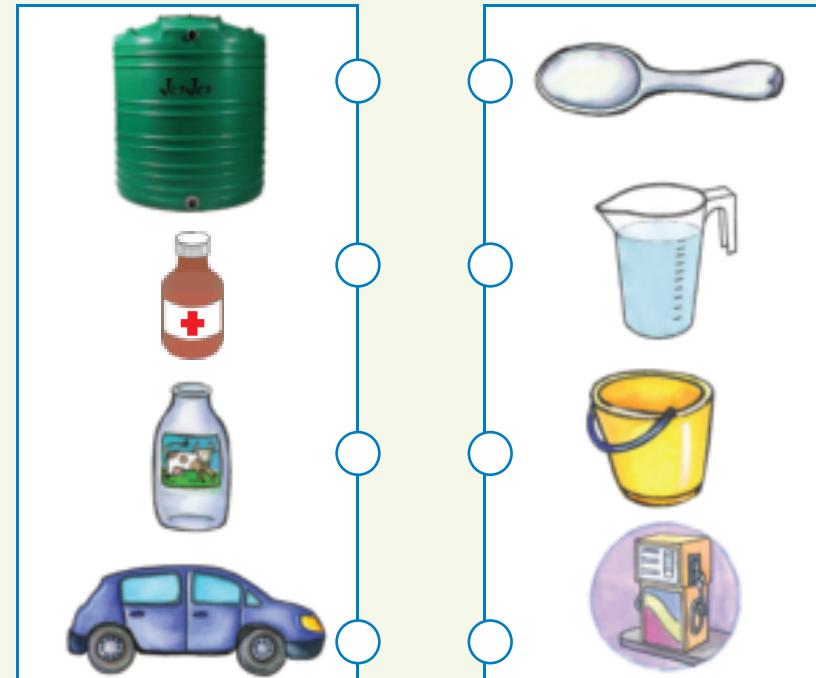


Itani thiki kha tshifaredzi (mudzio) tshi no fara zwinzhizwinzhi.



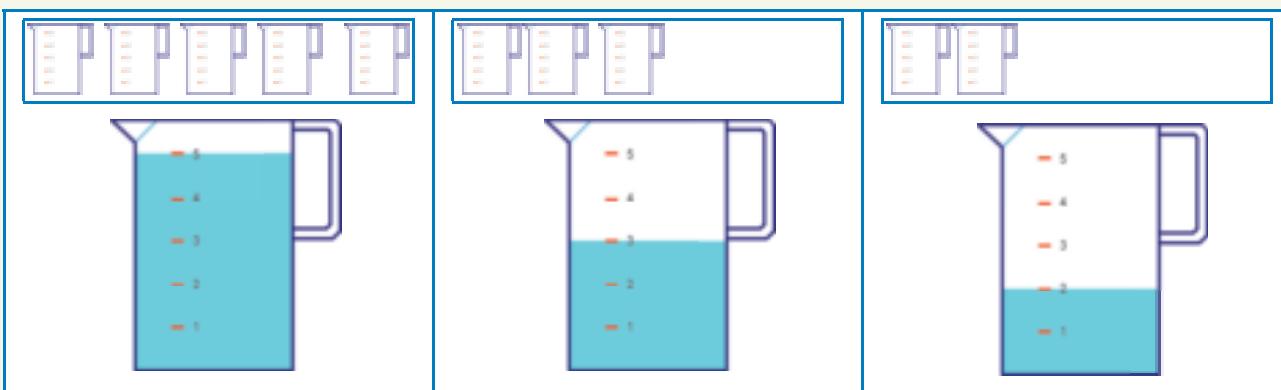
Zwifaredzi zwo ḫala kana ndi xoxoyo a zwi na tshithu? (a zwi na tshithu)

Khaphasithi (Ndadzo)





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



Khalarani tshivhalo tsho tsha zwiludi.

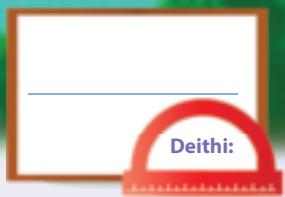
	+		=	<input type="text"/>
	+		=	<input type="text"/>
	+		=	<input type="text"/>



Teacher:
Sign:
Date:



I27

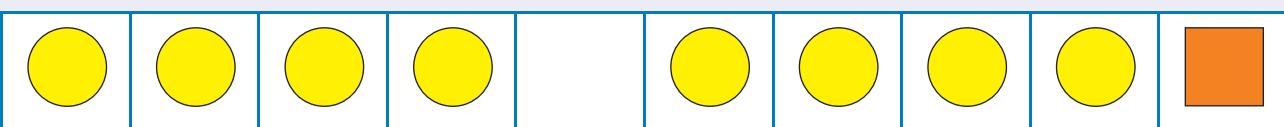
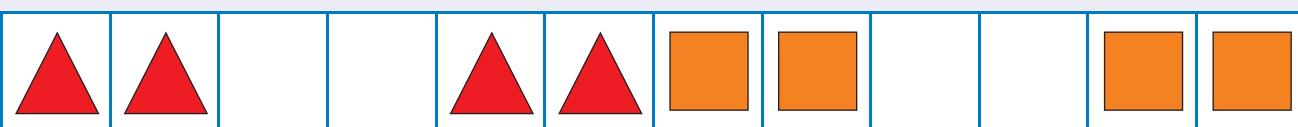
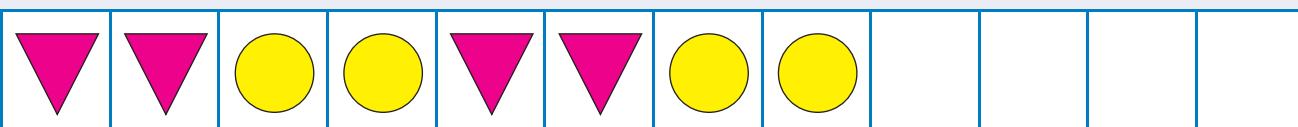
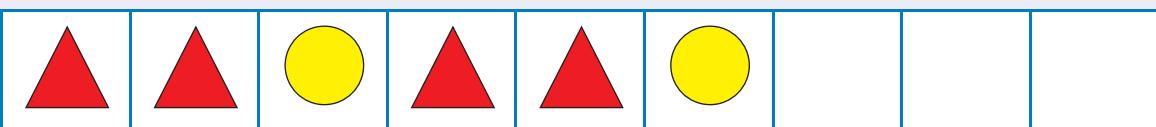


Phetheni dza dzhometiri

Themo ya 4

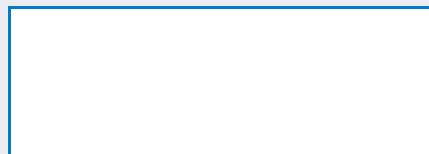
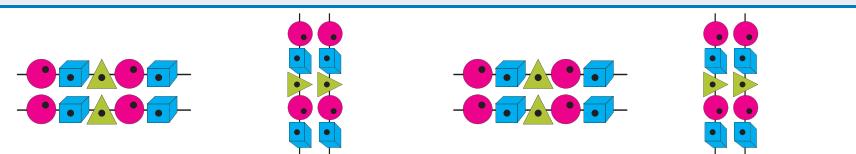
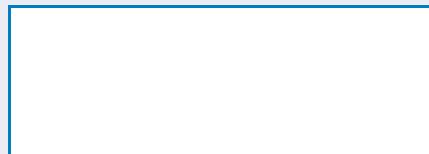
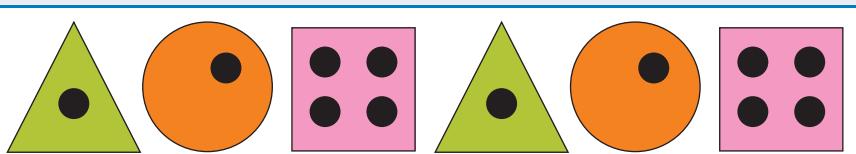
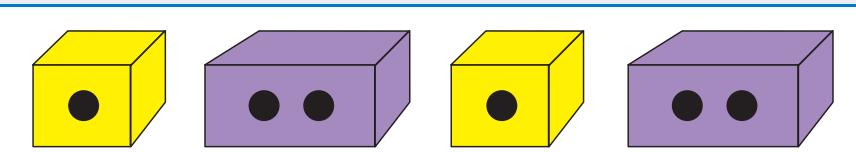
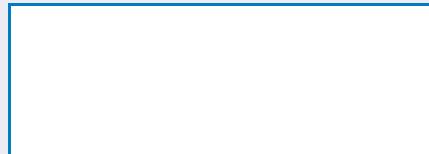
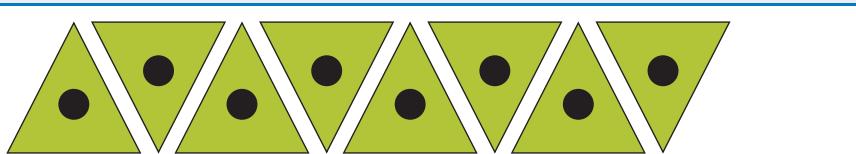


Fhedzisani phetheni.

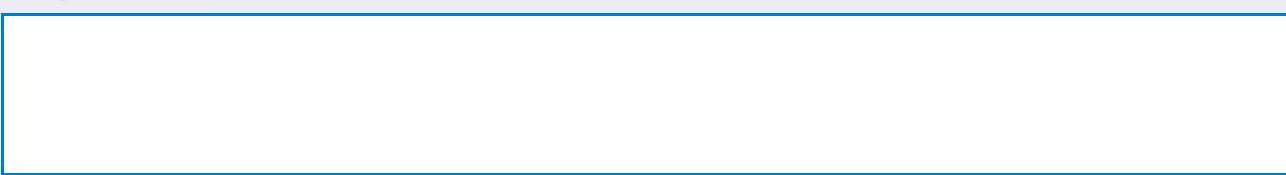




Engedzani phetheni.



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



Teacher:
Sign:
Date:



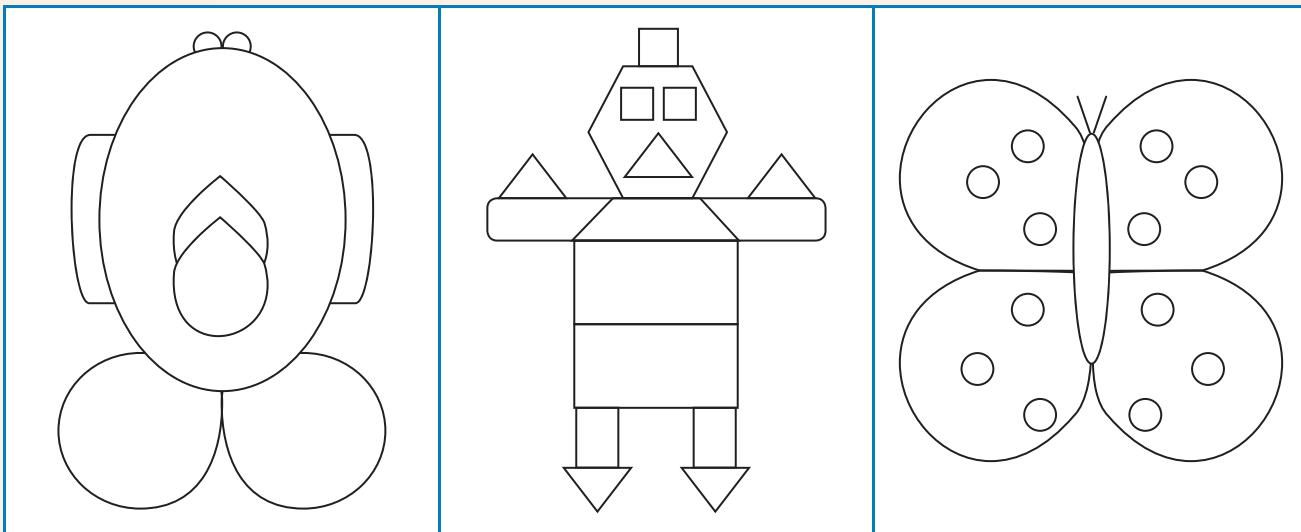
I28



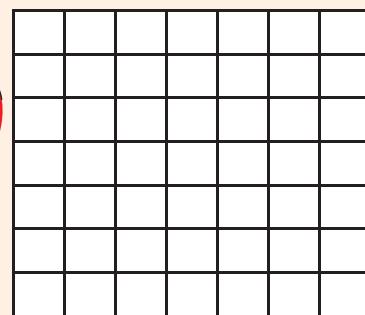
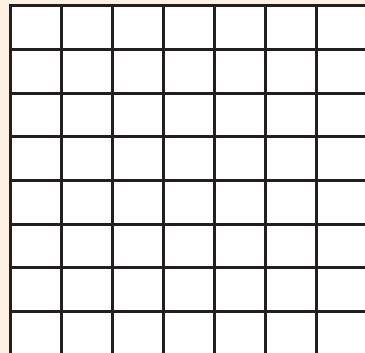
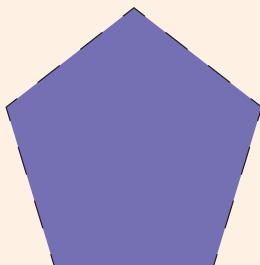
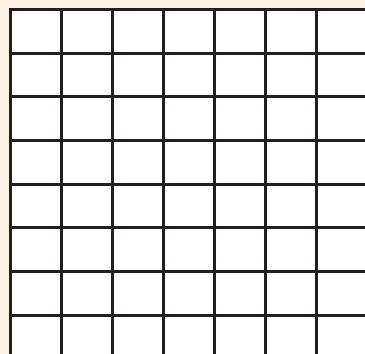
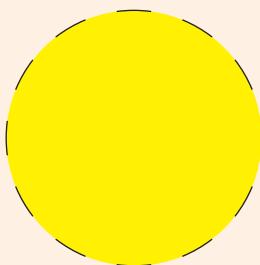
Themo ya 4



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

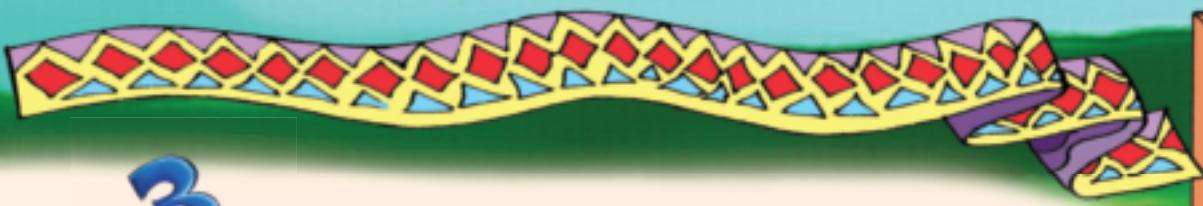


Kopololani zwivhumbeo, ni kone u tala mutalo wa ndinganahuvhili.

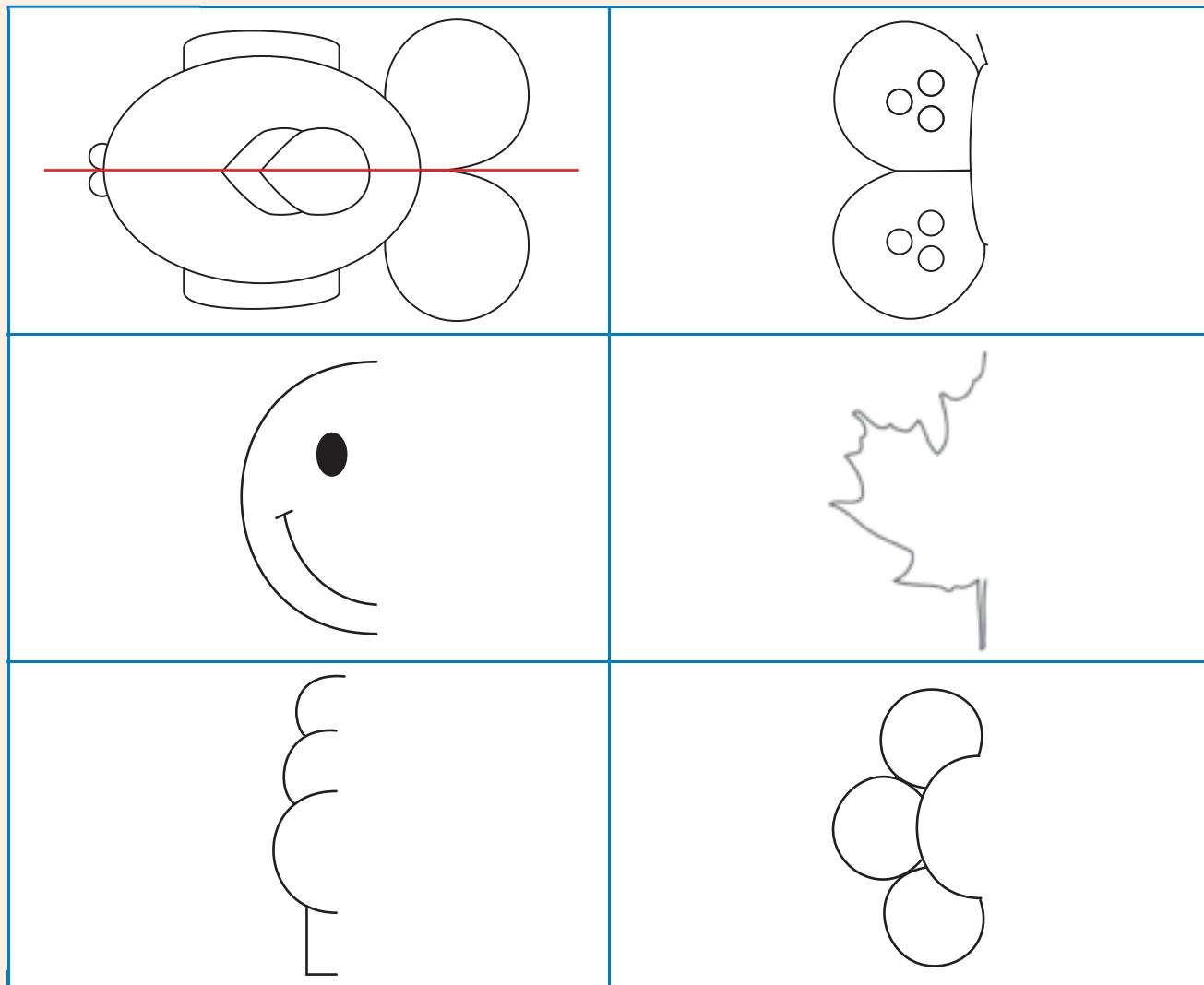


I28

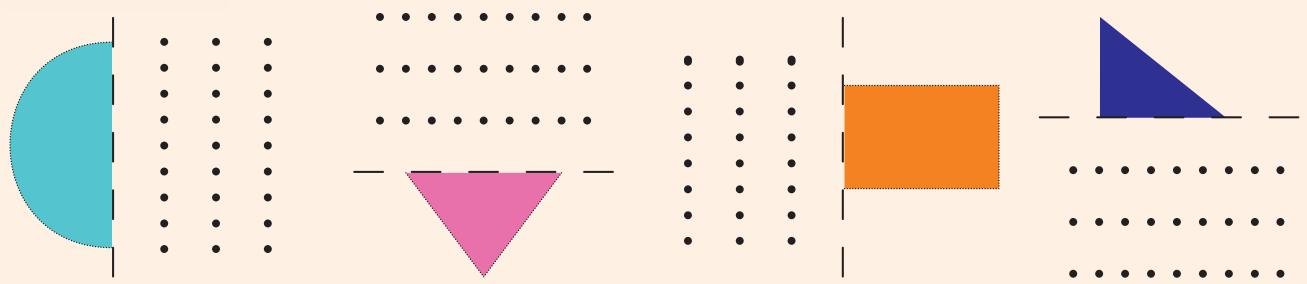
0 1 2 3 4 5 6 7 8 9 10



Fhedzisani tshifanyiso nga u ola ila inwe hafu kokotolo.



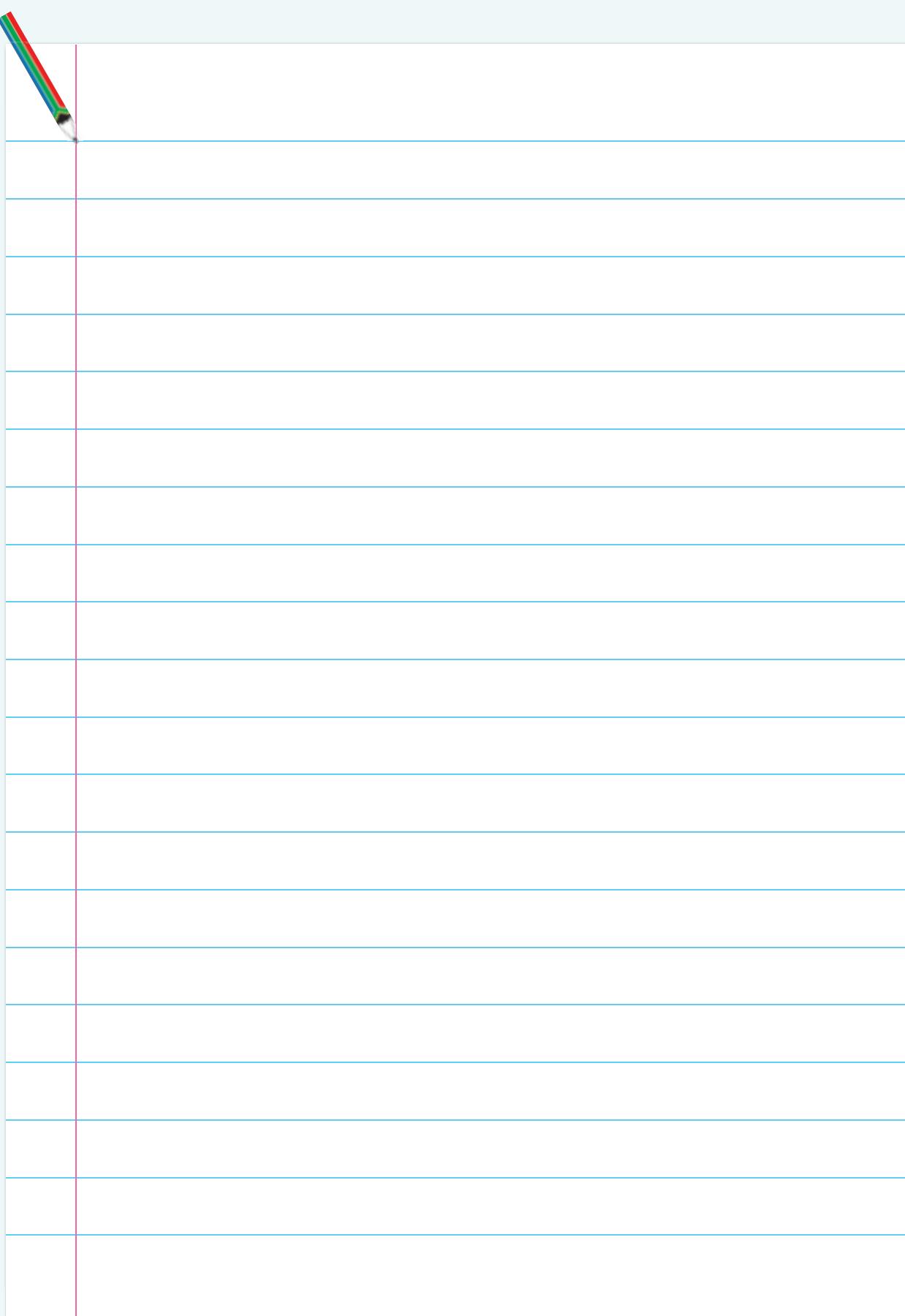
Olani ila inwe hafu ya tshivhumbeo.



Teacher:
Sign:
Date:



Notsi



Notsi

A notepad with a red pencil and a green handprint.

The notepad has a white header section and a white footer section. The main body of the notepad is a white rectangular area with a vertical red margin line on the left side. There are ten horizontal blue lines for writing. A red pencil is positioned at the top left corner, leaning against the red margin line. In the bottom right corner of the notepad, there is a green handprint. The page number '131' is located in the bottom right corner of the red footer area.

Notsi

