

**U ɓalukanya Mulayotewa (Ndayotewa) wa Riphabuɓiki ya Afrika Tshipembe (1996)**

Milayo ya nthesa ya shango i wanala kha Mulayotewa (Ndayotewa) wa Riphabuɓiki ya Afrika Tshipembe (1996). Milayo iyi i na maanɗa u fhira na muphuresidennde, maanɗa ayo a fhira a dzikhothe na a muvhuso wothe.

Ndi milayo ine ya laya vathu vha jino shango uri vha tea u farana nga ndilade. Mulayotewa wa shango wo itelwa u tsiredza rothe ri no khou tshila zwino na vhana vhashu vhane vha kha di do da.

Talukanyani hune ra bva hone.

Ri songo dovha vkhakhi ha mulovha.

Mulayotewa washu u ri thusa uri ri elekanye nga vhumatshelo ha khwine ha rothe khatihi na u vhu fhaɗa.

Rine, vathu vha Afrika Tshipembe;

Ri dzhiela ntha u shaea ha vhulamukanyi kha tshifhinga tsho fhelaho;

Ri thonifha havho vhe vha tambulela vhumukanyi na mbofholowo kha shango jashu;

Ri thonifha havho vhe vha shuma vha tshi itela u fhaɗa na u bvedzisa shango jashu; na

U tenda uri Afrika Tshipembe ndi ja vhothe vhane vha dzula khalo, vho vhofhekanywaho vha vha huthihi naho vha sa fani.

Zwenezwo, nga kha vhaimeleli vho khethiwaho zwavhuɗi, ri khou tangananza ino Ndayotewa sa wone Mulayo Muhulusa wa Riphabuɓiki uri u—

Fhelise khethululo ya tshifhinga tsho fhelaho na u thoma tshitshavha tshine tsho gisendeka kha ndeme dza demokirasi, vhumukanyi ha matshiliso na pfanelo dza vhuthu;

Fhaɗe mitheo kha demokirasi na tshitshavha tshi re khagala hune muvhuso wo gisendeka kha lufuno lwa vathu nahone vhadzulapo vho tsiredzwa nga mulayo nga ndila I linganaho;

Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhothe na u vhofoholola vhukoni ha muthu muhwe na muhwe; na

Fhaɗa mbumbano na demokirasi zwa Afrika Tshipembe uri ji kone u vha fhethu ho teaho sa muvhuso wo giimisaho kha muɗa wa tshaka.

Shumisani pfanelo dzaɗu sa mudzulapo wa Afrika Tshipembe ni dovhe ni vhe na vhuɗifhindleli ha u tsiredza pfanelo dza vhanwe.

Divhani Mulayotibe Wa Pfanelo na Mulayotibe Wa Vhuɗifhindleli.

Mudzimu tsiredza vathu vhashu.

Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.

God seën Suid-Afrika. God bless South Africa.

Hosi katekisa Afrika.

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**MATHEMATICS IN TSHIVENDĀ  
GRADE 1 – BOOK 2**

**TERMS 3 & 4**

**ISBN 978-1-4315-0134-2**

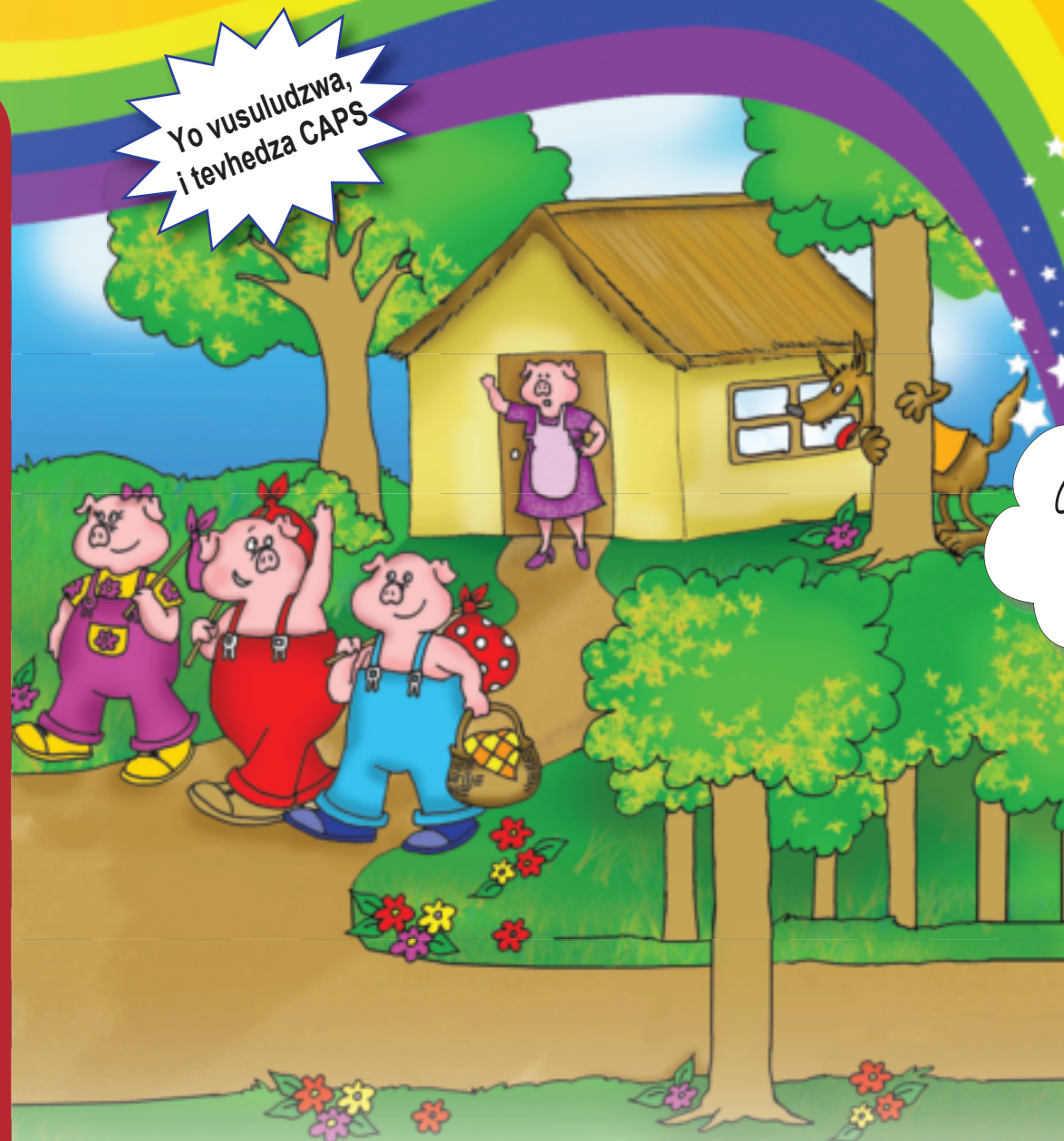
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**14th Edition**



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ISBN 978-1-4315-0134-2



Gireidi ya 1

Dzina:

Kilasi:



**basic education**

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

**DI VHAMBALO  
NGA TSHIVENDĀ**

Bugu ya 2  
Themo 3 & 4

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Vho Angie Motshekga  
Minista wa Muhasho wa  
Pfunzo ya Muteo



Vho Dr. Reginah Mhaule  
Muthusaminista wa  
Pfunzo ya Muteo

Bugu idzi dza u shumela dzo bveledzwa u itela uri dzi shumiswe nga vhagudi vha Afurika Tshipembe nga fhasi ha vhurangaphanda ha Minisita wa Pfunzo ya Muteo, mufumakadzi Vho Angie Motshekga na Muthusaminista wa Pfunzo ya Muteo, Vho Dr. Reginah Mhaule.

Bugu dza u shumela dza Rainbow dzi vhumba tshipida tsha mbekanyamushumo dza vhudzheneleli dza Muhasho wa Pfunzo ya Muteo wo livhiswaho kha u khwinisa kushumele kwa vhagudi vha Afurika Tshipembe kha gireidi dza rathi dza u thoma. Sa tshinwe tsha zwithu zwa nthesa zwa Pulanetshumisi ya Muvhuso, thandela iyi yo itwa uri i vhe hone nga thusedzo ya masheleni ya Muhasho wa Gwama. Izwi zwo ita uri muhasho u kone u bveledza idzi bugu dza u shumela kha nyambo dzothe dza tshiofisi hu si na mbadelo.

Ri fulufhela uri vhadededzi vha do vhona ndeme ya bugu idzi kha u funza havho ha duvha linwe na linwe vha dovha vha ita uri vhagudi vha kone u khunyeledza kharikhu lamu yothhe. Ro lingedza nga ndila dzothe u sumbedza vhagudisi kha nyito inwe na inwe nga u dzhenisa aikhoni dzine dza sumbedza zwine vhagudi vha fanela u ita.

Ri na fulufhelo lothe la uri vhagudi vha do diphina nga u shuma nga idzi bugu musi vha tshi khou aluwa na u guda, na uri vhone sa vhadededzi vha do vha na mukovhe kha dakalo ili.

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



Gireidi  
ya



# NGA TSHIVENḐA

Bugu iyi ndi ya:



TSHIVENḐA

Bugu ya

2

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

# Pfesesani nomboro II

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.

 thihi

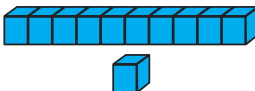
1 1


 mbili

2 2



Livhanyani zwifanyiso.

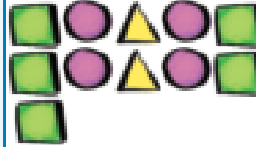




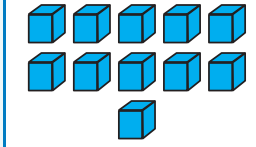
10 1


11





11





10 1



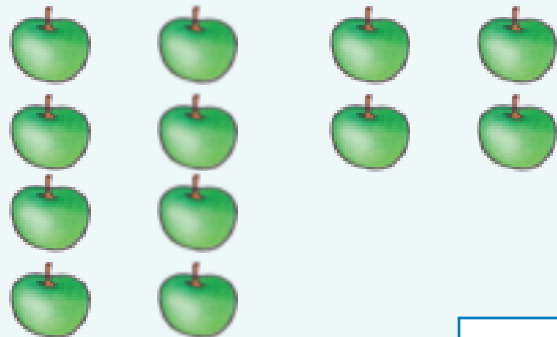
Tangedzelani zwithu.

Tangedzelani malegere a 10 fhedzi.



Ho sala malegere mangana?

Tangedzelani maapula a 10 fhedzi.



Ho sala maapula mangana?





Tovhedzelani nomboro.



Khoḽomo inwe na inwe i tea u vha na tḥanganyelo ya II. Nwalani nomboro dzi no khou tḥahela.



3	5	4
4	5	
4		2
II	II	II

fumithihi			



Olani zwithu zwa II.



Nwalani nomboro dzi no khou tḥahela.

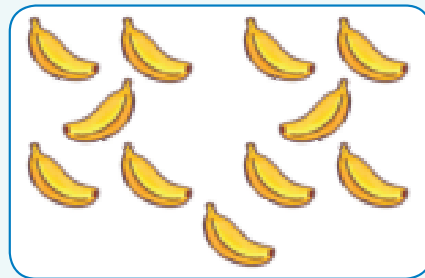
1

2

4



Vhalani zwithu.



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



Ndi nomboro ifhio i re tḥukhu kha II nga thihi?

Ndi nomboro ifhio i re khulwane kha II nga thihi?

		fumithihi
		fumithihi
	fumithihi	

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



# Pfesesani nomboro 12

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.

 raru

3 3

 ina

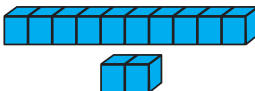
4 4




Livhanyani zwifanyiso.



Tangedzelani zwithu.

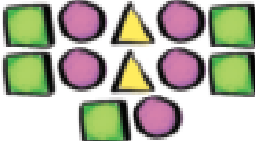




Tangedzelani zwienda zwa 10 fhedzi.

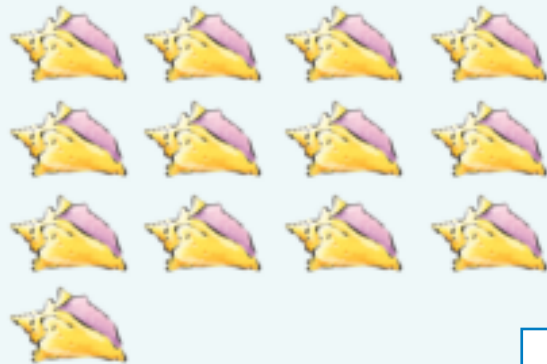


Ho sala zwienda zwingana?



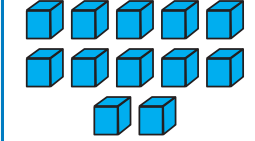
12

Tangedzelani khambalwanzhe dza 12 fhedzi.




Ho sala khambalwanzhe nngana?

10  
2



12





10  
2





Tovhedzelani nomboro.

12	12	12	12
fumimbili			
12	12	12	12

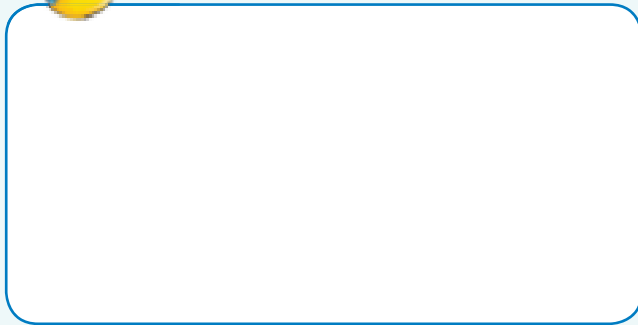


Khoḽomo inwe na inwe i tea u vha na tḥanganyelo ya 12. Nwalani nomboro dzi no khou tḥahela.

	7	6
4		4
3	2	
12	12	12



Olani zwithu zwa 12.



Nwalani nomboro dzi no khou tḥahela.

3		5			
8			11		



Vhalani zwithu.



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

		fumimbili
	12	fumimbili
		12
fumimbili		



Ndi nomboro ifhio i re tḥukhu kha 12 nga thihi?

Ndi nomboro ifhio i re khulwane kha 12 nga thihi?

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



## Pfesemani nomboro 13

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.



ṭhanu

5 5

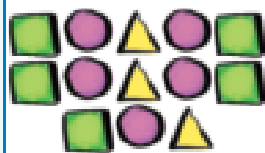
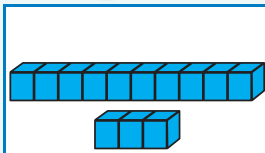


rathi

6 6



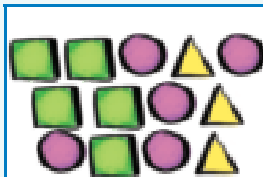
Livhanyani zwifanyiso.



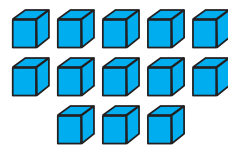
10

3

13



13



10

3



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 inwe na inwe i tea u vha na tshanganyelo ya 13. Nwalani nomboro dzi no khou tshela.

1	2	6
1		
	3	2
13	13	13



Olani zwithu zwa 13.

Zwino zwi oleni nga ndila inwevho.

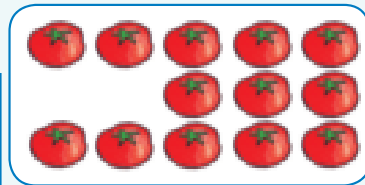
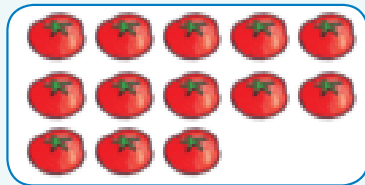


Nwalani nomboro dzi no khou tshela.

	10		12	
--	----	--	----	--



Vhalani zwithu.



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



		fumiraru
	13	fumiraru
13		
	fumiraru	

Ndi nomboro ifhio i re tshukhu kha 13 nga thihi?

Ndi nomboro ifhio i re khulwane kha 13 nga thihi?

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



# Pfesesani nomboro 14

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u nwala nomboro.

 sumbe

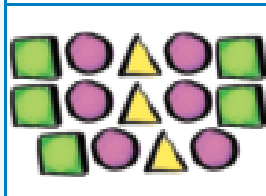
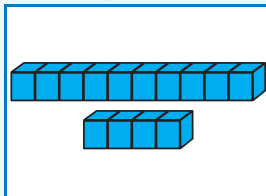
7 7

 malo

8 8

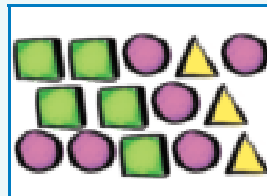


Livhanyani zwifanyiso.

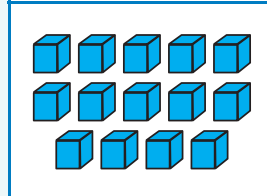


10  
4

14



14



10  
4



Tangedzelani zwithu.

Tangedzelani zwisusu zwa 10 fhedzi.



Ho sala zwisusu zwingana?

Tangedzelani rokho dza 14 fhedzi.



Ho sala rokho nngana?





Tovhedzelani nomboro.



Khoḽomo inwe na inwe i tea u vha na tḥanganyelo ya 14. Nwalani nomboro dzi no khou tḥahela.

1		2
	5	1
3	2	
14	14	14

14	14	14	14
fumiina			
14	14	14	14



Olani zwithu zwa 14.

Zwino zwi oleni nga ndila inwevho.



Vhalani zwithu.

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



Nwalani nomboro dzi no khou tḥahela.

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



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

	14	fumiina
14		
	fumiina	



Ndi nomboro ifhio i re tḥukhu kha 14 nga thihi?

Ndi nomboro ifhio i re khulwane kha 14 nga thihi?

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



## Pfesemani nomboro 15

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.



tahe

9 9



fumi

10 10



Livhanyani zwifanyiso.

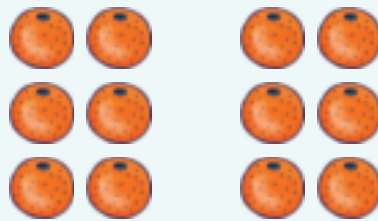
10 5
15



Tangedzelani zwithu.

15
10 5

Tangedzelani maswiri a 10 fhedzi.



Ho sala maswiri mangana?

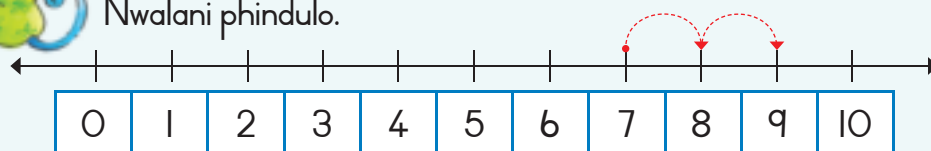
Tangedzelani naledzi dza 15 fhedzi.



Ho sala naledzi nngana?



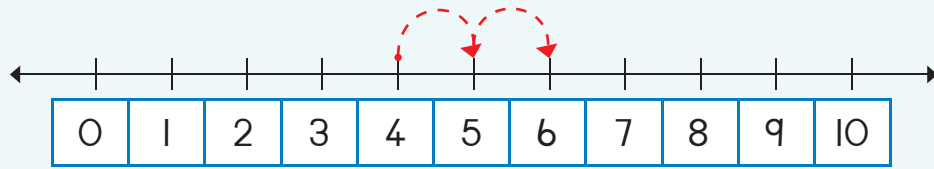
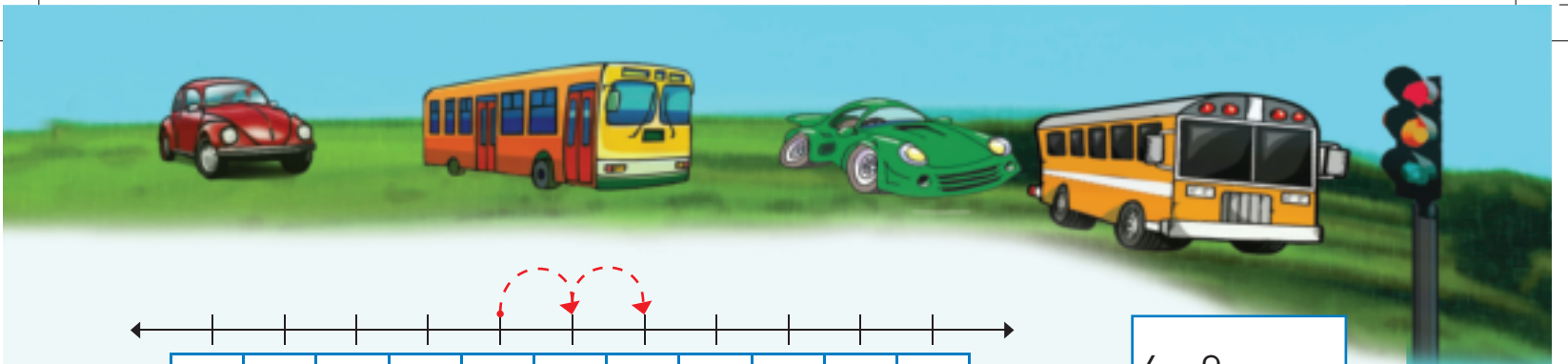
Nwalani phindulo.



$7 + 2 =$



0 1 2 3 4 5 6 7 8 9 10



$$4 + 2 =$$



Tovhedzelani nomboro.

15	15	15	15
fumiṭanu			
15	15	15	15



Olani zwithu zwa 15.

Zwino i oleni nga ṅdila inwevho.



Ṇwalani nomboro dzi no khou ṭahela.



11	12	13		15
----	----	----	--	----

15		13	12	
----	--	----	----	--

Vhalani zwithu.



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

	15	fumiṭanu
		fumiṭanu
15		



Ndi nomboro ifhio i re ṭhukhu kha 15 nga thihhi?

Ndi nomboro ifhio i re khulwane kha 15 nga thihhi?



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



# Mutanganyo u swika kha 20

## – U isa phanda

Deithi:

Mvusuludzo:

Itani ndowendowe ya u n'wala dzinambalo.

6

rathi



Lavhelesani zwifanyiso ni n'wale fhungombalo la tshifanyiso tshinwe na tshinwe.

Lisa u na maḽegere a 3. Mandla u na maḽegere a 5. Vha na maḽegere mangana o tḽangana o tḽhe?



Kha ri vhale:

3	...	4	5	6	7	8
<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?

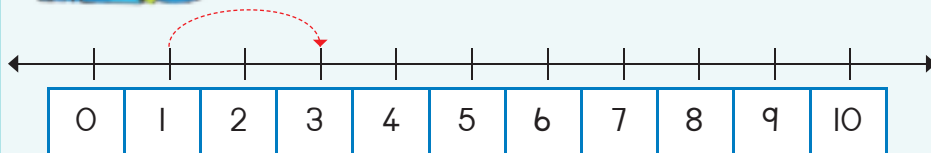


Kha ri vhale ri tshi ya murahu:

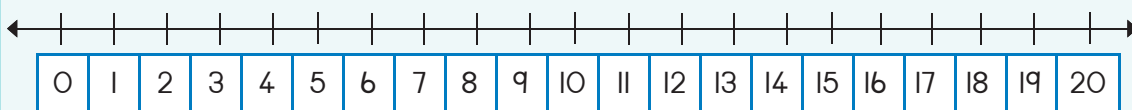
8	...	7	6	5	4
<input type="text"/>	-	<input type="text"/>	=	<input type="text"/>	



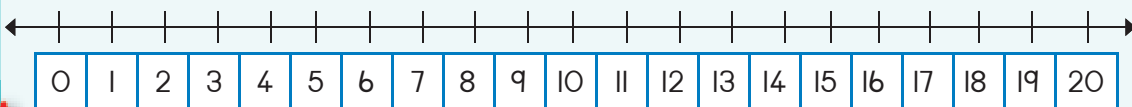
N'walani phindulo.



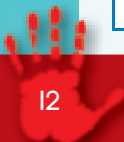
$1 + 2 = \square$



$13 + 2 = \square$



$15 + 2 = \square$





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

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u riwala dzinambalo.

7

sumbe



Ñwalani phindulo.



Khalarani ni tshi sumbedza zwi tevhelaho.

$3 + 3 = \square$



$3 + 9$



$4 + 8$



$0 + 5 = \square$



$5 + 7$



$3 + 2 + 1 = \square$



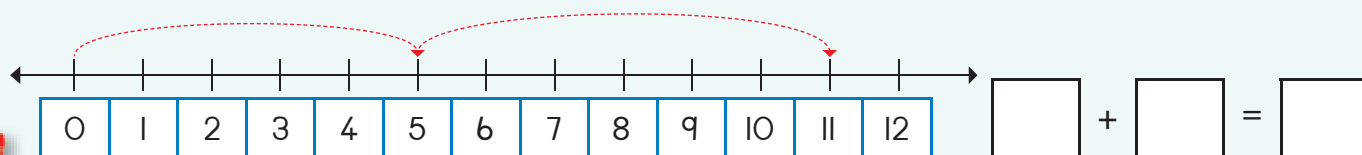
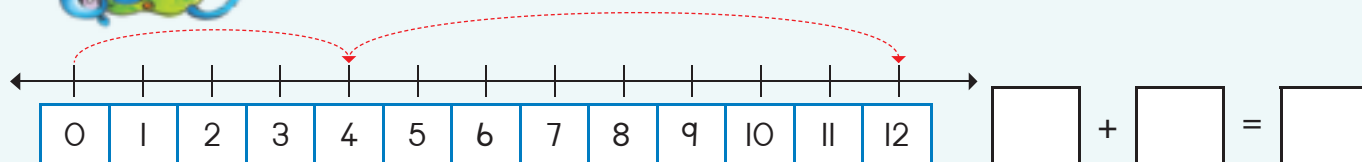
$6 + 6$

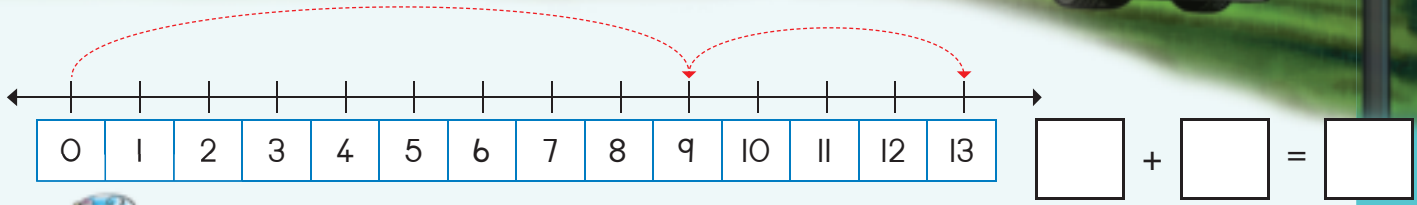
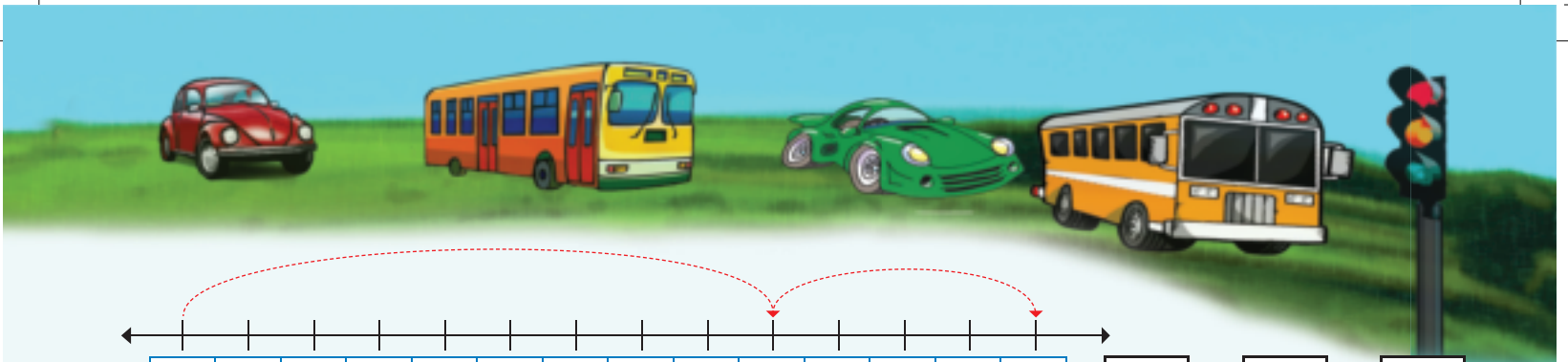


$7 + 5$



Ñwalani mbalo ya:





Fhedzisani mutalombalo ni n'wale phindulo.

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

 $4 + 5 + 1 = \square$ 

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

 $3 + 3 + 2 = \square$ 

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

 $2 + 4 + 3 = \square$ 

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

 $4 + 3 + 2 = \square$ 


Tandululani zwi tevhelaho nga u ola zwifanyiso.

Ndi na mimavhulu ya 5 ngeno khonani yanga e na ya 8. Ri na mimavhulu mingana yo t'angana yo t'he?

 $\square + \square = \square$ 

Ndo wana maluvha a 9 a u fha mudededzi washu. Khonani yanga a wana a 6. Ri na maluvha mangana o t'angana o t'he?

 $\square + \square = \square$ 

Teacher:  
Sign:  
Date:

# Muṭanganyo – u fhaṭa na u paḍukanya nomboro u swika kha 20

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u ṅwala dzinambalo.

8

malo

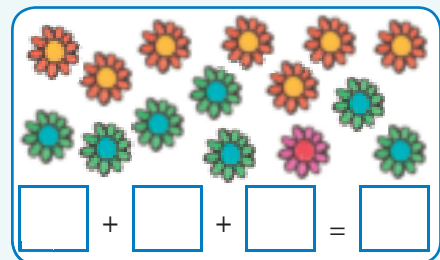
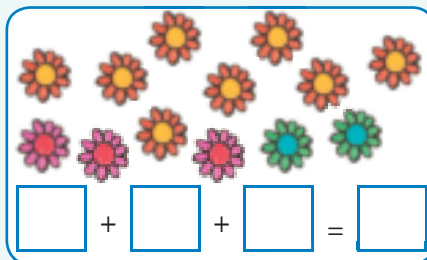
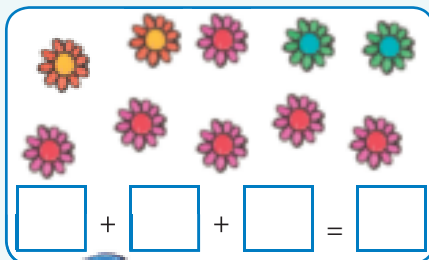


ṅwalani phindulo.

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



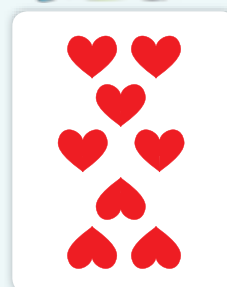
Shumisani maluvha a mivhala yo fhambananaho kha u ita mafhungombalo a inwi muṅe.



Thusani buvhi u fhedzisa mbalo.



Hu na mbilu nngana?



ṅwalani mbalo yaṅu.

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



0 1 2 3 4 5 6 7 8 9 10



Livhanyani phere dza nomboro ni tshi sika nomboro dzi tevhelaho.

7	●	13	●	5
8	●			4
9	○			6
10	○			2
11	○			3

6	○	11	○	7
7	○			4
3	○			8
4	○			5
5	○			6

8	○	12	○	6
10	○			1
4	○			8
11	○			4
6	○			2



Nwalani fhungombalo la:

+  =

+  =

Mvusuludzo:

Mvusuludzo: Khalarani 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:



# Mutanganyo na mutuso – u fhaṭa na u padukanya

Themo ya 3

Mvusuludzo:

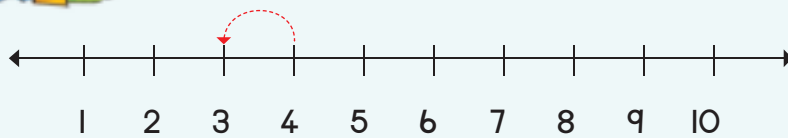
Itani ndowendowe ya u n̄wala dzinambalo.

9

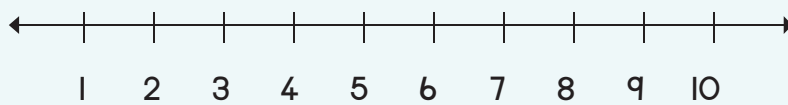
t̄ohe



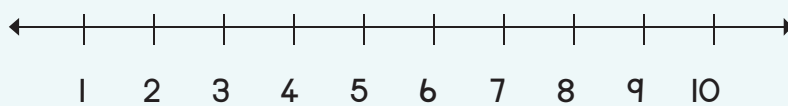
N̄walani phindulo.



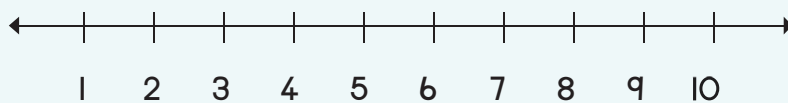
$4 - 1 = \square$



$5 - 3 = \square$



$4 - 2 = \square$



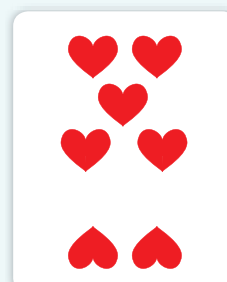
$5 - 2 = \square$



Thusani buvhi u fhedzisa mbalo.

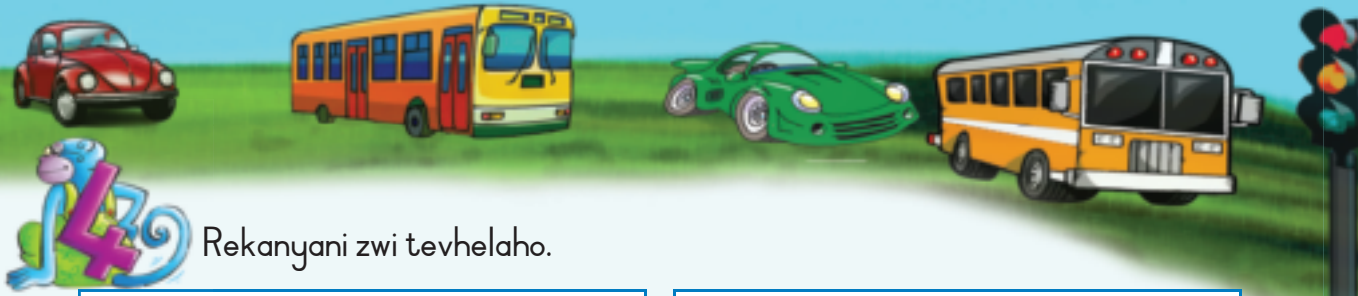


Hu na mbilu nngana?



N̄walani mbalo yan̄u.

$\square + \square = \square$



Rekanyani zwi tevhelaho.

$$7 + 4 = \square$$

$$7 + 4 + 1 = \square$$

$$10 + 1 = \square$$

$$6 + 6 = \square$$

$$6 + \square + \square = \square$$

$$10 + \square = \square$$

$$13 - 6 = \square$$

$$13 - 3 + 3 = \square$$

$$10 - 3 = \square$$

$$12 - 8 = \square$$

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

$$10 - 3 = \square$$



Nwalani phindulo ni khalare na u ola.

$8 + 6 = \square$

Ri nga kha di i sumbedza sa:

$(8 + 2) + 4 = \square \rightarrow 10 + 4 = \square$

$15 - 7 = \square$

Ri nga kha di i sumbedza sa:

$(15 - 5) - 2 = \square \rightarrow 10 - 2 = \square$

$9 + 4 = \square$

Ri nga kha di i sumbedza sa:

$(9 + 1) + 3 = \square \rightarrow \square = \square$

$14 - 5 = \square$

Ri nga kha di i sumbedza sa:

$(\square - \square) - 1 = \square \rightarrow 10 - 1 = \square$

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo.

10

fumi

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



# Vhulapfu (vhuntzha)

Themo ya 3



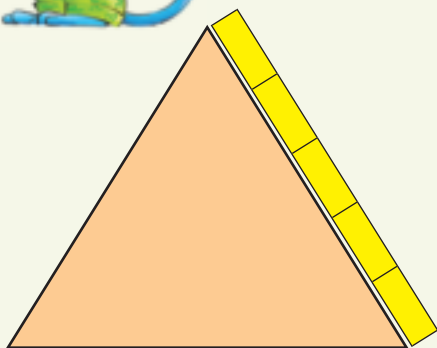
Lavhelesani tshifanyiso ni fhindule mbudziso.

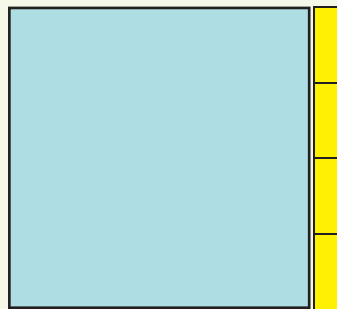
Jabu	Pam	Nomsa	Ken

Ndi nnyi mulapfusa?	Ndi nnyi a re mutukana mupfufhisa?
<input type="text"/>	<input type="text"/>
Ndi nnyi mupfufhisa?	Ndi nnyi a re musidzana mulapfusa?
<input type="text"/>	<input type="text"/>



Vhurumbu ha zwivhumbeo izwi ndi vhulapfu ha zwibogisi zwingana.

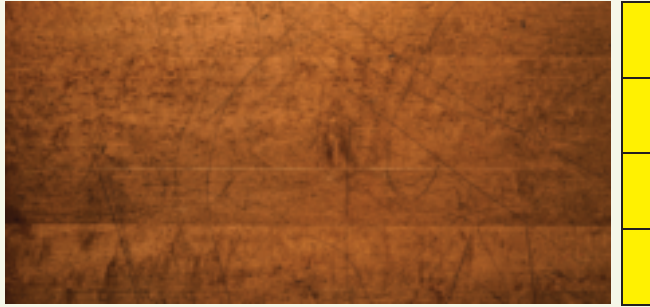








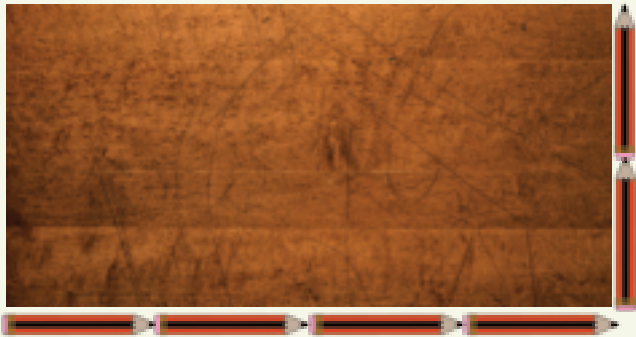
Vhulapfu na vhuphara ha ṭafula ndi vhugai nga muelo wa  
vhulapfu ha zwibuḽoko na penisela?



Vhuphara ndi zwibuḽoko zwa \_\_\_\_.



Vhulapfu ndi zwibuḽoko zwa \_\_\_\_.



Vhuphara ndi zwibuḽoko zwa \_\_\_\_.

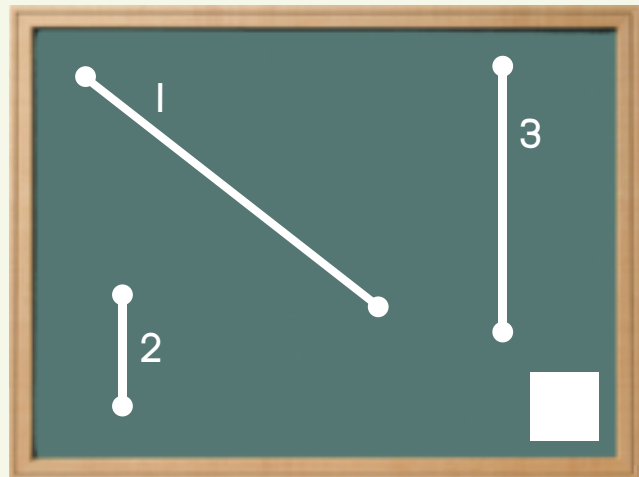
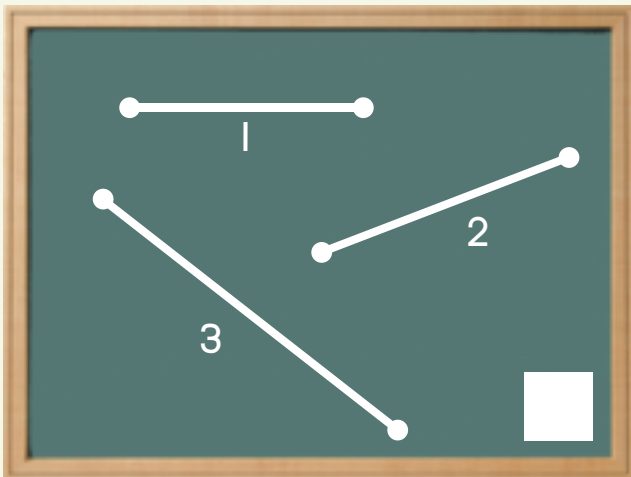


Vhulapfu ndi zwibuḽoko zwa \_\_\_\_.



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: \_\_\_\_\_

# Tshelede na tshintshi



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

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



Itani thiki kha khoini dzine dza ita R10.

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



Itani thiki kha khoini dzine dza ita R20.

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



Rekanyani zwi tevhelaho.

$R5 + R10 =$		$R5 + R2 + R8 =$		$R10 + R10 =$	
$R3 + R10 + R2 + R2 =$		$R5 + R7 + R1 + R5 =$		$R10 + R1 + R5 + R2 =$	



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 R1.  
 Khonani yanga u na khoini tharu dza R5.  
 Ndi nnyi ane a vha na tshelede nnzhi?



Ndi na R15:

Ndi badela nga Tshintshi

$R4 + R7 = R11$	R4
$R6 + R9 =$	
$R8 + R3 =$	
$R2 + R11 =$	
$R3 + R8 =$	
$R6 + R8 =$	
$R0 + R2 =$	
$R2 + R2 =$	
$R4 + R2 =$	
$R6 + R2 =$	



Rekanyani zwi tevhelaho.

Ndi na R15. Ndi renga phakhethe ya matshipisi  
 nga R6. Ndo salelwa nga vhugai?



Fhungudzani nga R2.

R11		R4	
R12		R6	
R10		R8	



# Tshelede na tshintshi

Themo ya 3



Olani dzikhoini ni ite:

R11	
R12	
R13	
R14	



Itani thiki kha phindulo yone.

$R18 - R8 =$   R10

$R12 - R2 =$

$R15 - R4 =$

$R14 - R7 =$



Rekanyani zwi tevhelaho.

$R15 - R10 =$	<input type="text"/>
$R10 - R1 - R1 - R2 =$	<input type="text"/>

$R20 - R2 - R8 =$	<input type="text"/>
$R5 - R4 =$	<input type="text"/>

$R20 - R5 =$	<input type="text"/>
$R10 - R1 - R5 - R2 =$	<input type="text"/>



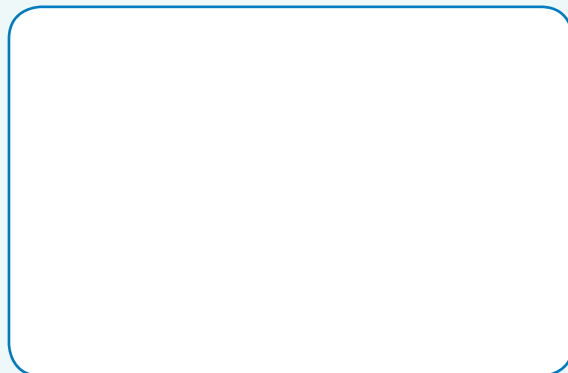


Rekanyani zwi tevhelaho.

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



Ndi na R15. Ndi renga phakhethe ya malegere nga R11.  
Ndo salelwa nga vhugai?



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

# Tshelede: Mutanganyo na mutuso



Rekanyani zwi tevhelaho.

$R10 + R2 =$	
$R10 + R4 =$	
$R9 + R5 =$	
$R12 + R5 =$	

$R10 + R5 =$	
$R10 + R7 =$	
$R8 + R4 =$	
$R14 + R2 =$	

$R10 + R1 =$	
$R10 + R6 =$	
$R7 + R6 =$	
$R11 + R6 =$	



Rekanyani zwi tevhelaho.

$R10 - R7 =$	
$R15 - R1 =$	
$R12 - R2 =$	
$R15 - R6 =$	

$R10 - R2 =$	
$R15 - R15 =$	
$R14 - R7 =$	
$R12 - R9 =$	

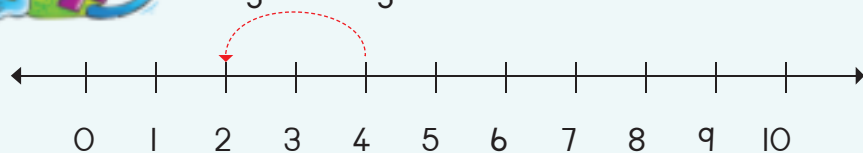
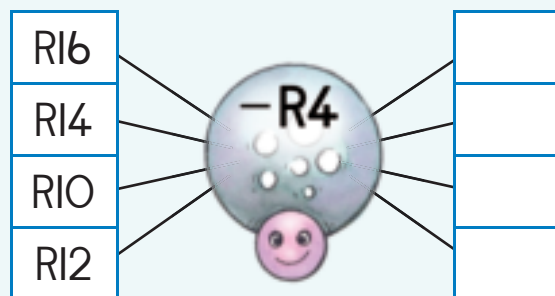
$R10 - R5 =$	
$R15 - R2 =$	
$R16 - R6 =$	
$R14 - R4 =$	



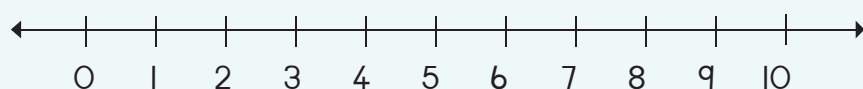
Thusani buvhi u fhedzisa mbalo dzothe.



Fhungudzani nga R2.



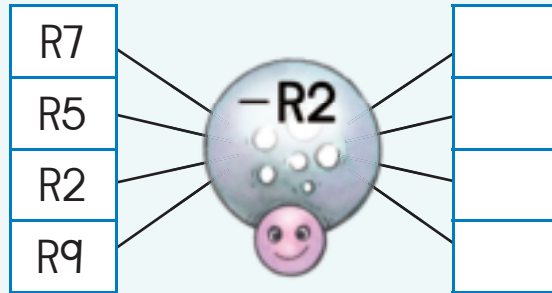
$$R4 - R2 =$$



$$R7 - R2 =$$



Thusani buvhi u shuma mbalo dzothe dza mutuso.



Tandululani zwi tevhelaho.

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

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

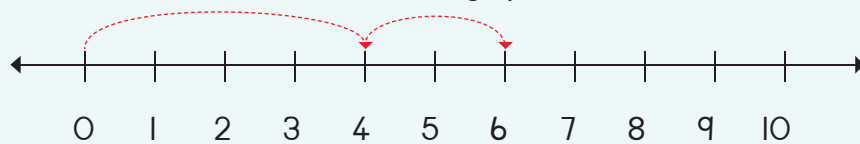


Ndo vhulunga vhugai?

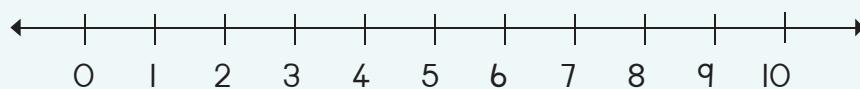


Sumbdzani mbalo kha mutalombalo ni rekanye phindulo.

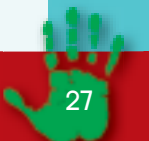
$R4 + R2 =$



$R8 + R2 =$



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

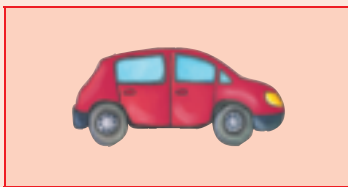
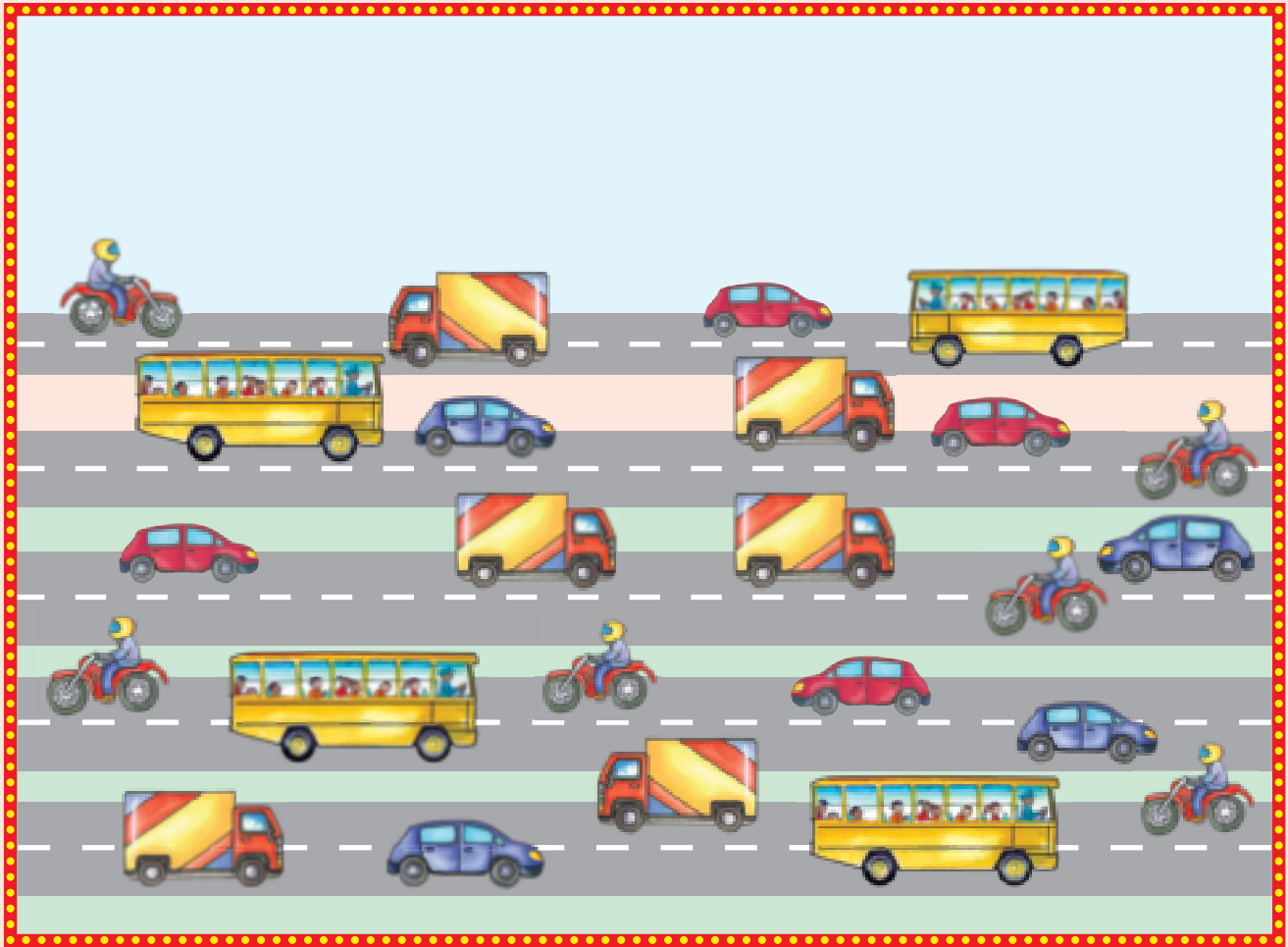


# Data

Themo ya 3

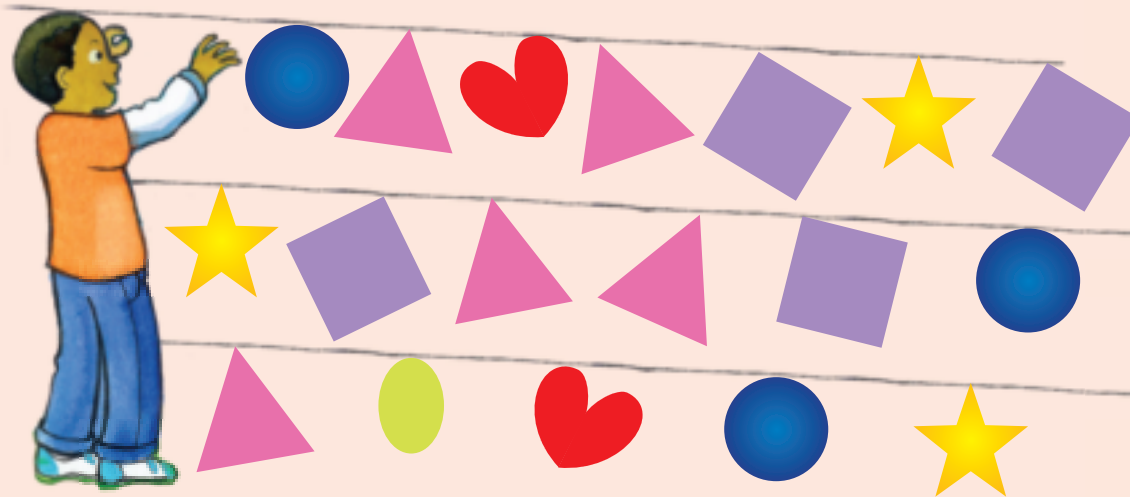


Vhalani uri ni kona u vhona zwiendedzi zwingana zwa lushaka luthihi.





Vhalani zwiwumbeo ni khalare tshati i re afho fhasi ni tshi sumbedza uri hu na zwingana zwa tshiwumbeo tshiwe na tshiwe. Ni kone u fhindula mbudziso.



5						
4						
3						
2						
1						
		▲	●	■	♥	★

Zwiwumbeo zwa \_\_\_\_\_ ndi zwone zwinzhi.

Zwiwumbeo zwa \_\_\_\_\_ ndi zwone zwiwuku.



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

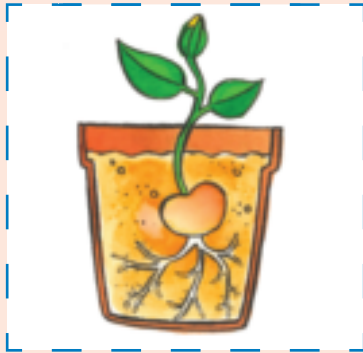


# Data na tshifhinga

Themo ya 3



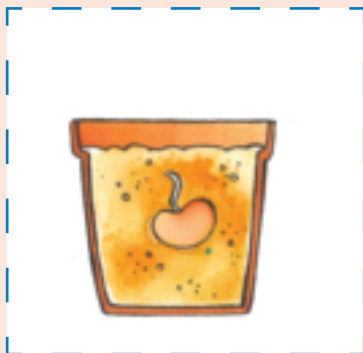
Ambani nga zwifanyiso izwi ni kone u zwi vhekanya nga thevhekano yone.



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 zwiṭanuzwiṭanu u swika kha 15

Mvusuludzo:

Itani ṅdowendowe ya u ṅwala dzinambalo.

5

ṭhanu



Lavhelesani tshifanyiso ni kone u fhindula mbudziso.

Lavhelesani tshifanyiso.  
Ri nga i ṅwala nga hei ṅdila.Ni nga ita zwigwada zwingana  
zwa zwa 5 (zwiṭanu).

Olani zwanu hafha.

Tshigwada tshithihi  
tsha dza 5 ndi 5

Vhalani minwe yanu ni ṅwale phindulo.



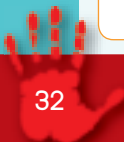
$$5 + 5 =$$



$$5 + 5 + 5 =$$



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

zwigwada zwa 2 zwa  
ṭhanu ndi 10

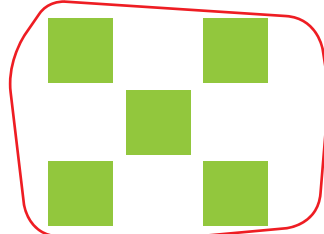
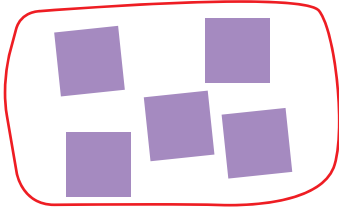


Olani zwitendeledzi u mona na zwi tevhelaho ni vhumbe:

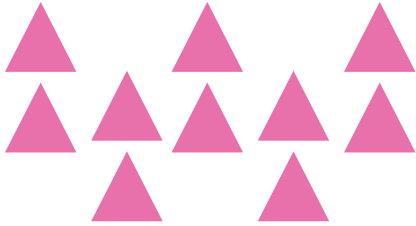


Ñwalani mafhungombalo a zwi tevhelaho:

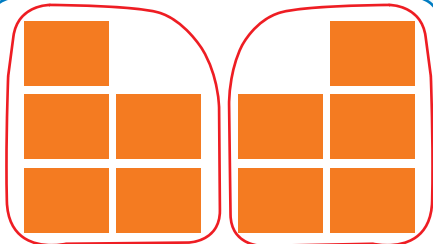
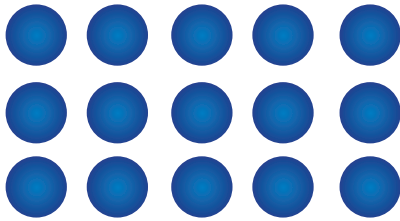
tshigwada tsha | tsha zwa 5



zwigwada zwa 2 zwa dza 5



zwigwada zwa 3 zwa zwa 5

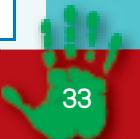


Ni nga ita zwigwada zwingana zwa zwiñanuzwiñanu nga?

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	



Teacher:  
Sign:  
Date:





# Thano: ndovhololo ya mutanganyo u swika kha 15

Mvusuludzo:

Mvusuludzo: Nwalani nomboro dzi no khou tshela.



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






Tshigwada tsha miomva mitanu

Zwigwada zwivhili zwa maluvha  
matanu kha tshithihi

Olani:




Olani zwivhumbeo zwa zwi tevhelaho.

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

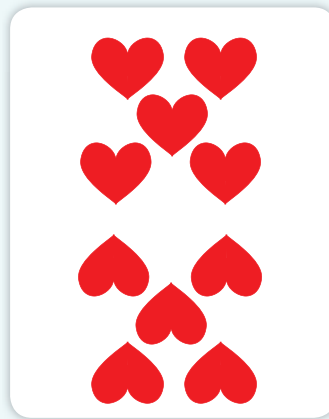
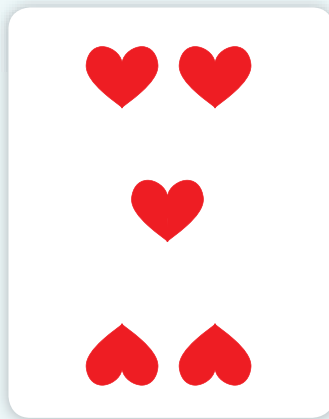
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\phantom{00}}$$







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



Nwalani fhungo mbalo la:

○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○



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

I	2	3	4	5	6	7	8	9	10
11	12	13	14	15					



Ni nga kona u ita zwigwada zwingana zwa zwiṭanuzwiṭanu?

I	na	14	dzi do ita	zwigwada zwa	
13	na	2	dzi do ita	zwigwada zwa	
8	na	2	dzi do ita	zwigwada zwa	
7	na	8	dzi do ita	zwigwada zwa	
9	na	2	dzi do ita	zwigwada zwa	



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





## Zwiṭanuzwiṭanu u swika kha 15



Ñwalani nomboro dzi no khou ṭahela.

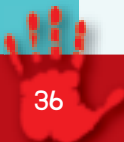
I		3		5		7	8	9	
II	12								

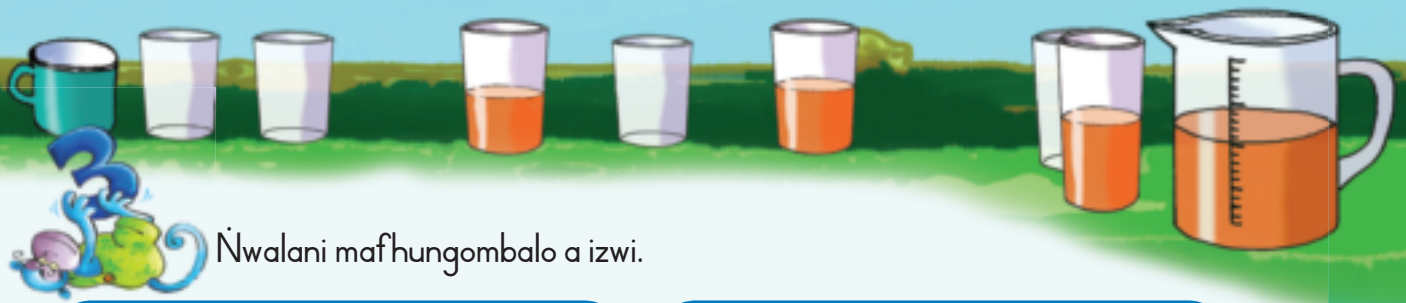


Itani zwigwada zwa zwiṭanuzwiṭanu.

Kugoṅoṅozwithoma ku tea u vha na tshigwada tsha zwithoma zwiṭanu.

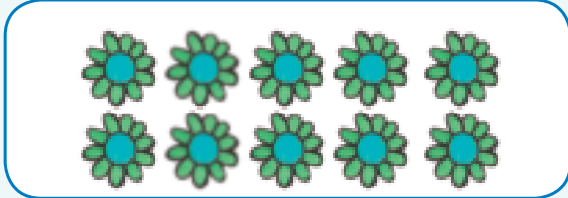
Olani zwithoma zwi no khou ṭahela.

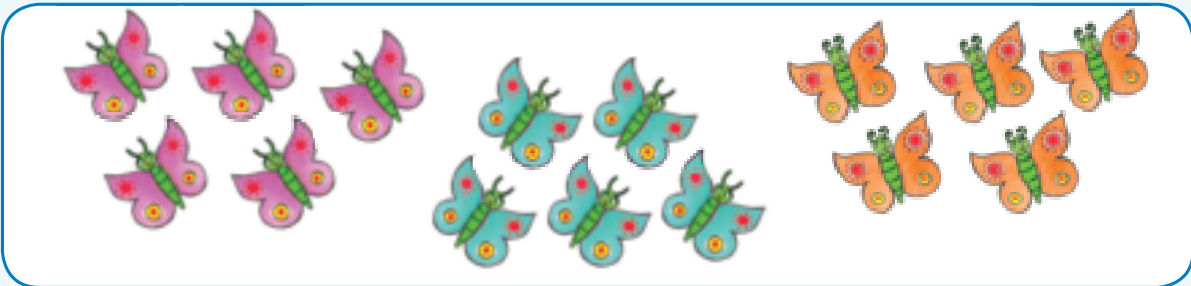




Nwalani mafhungombalo a izwi.









Rekanyani zwi tevhelaho.

$$0 + 5 = \square$$

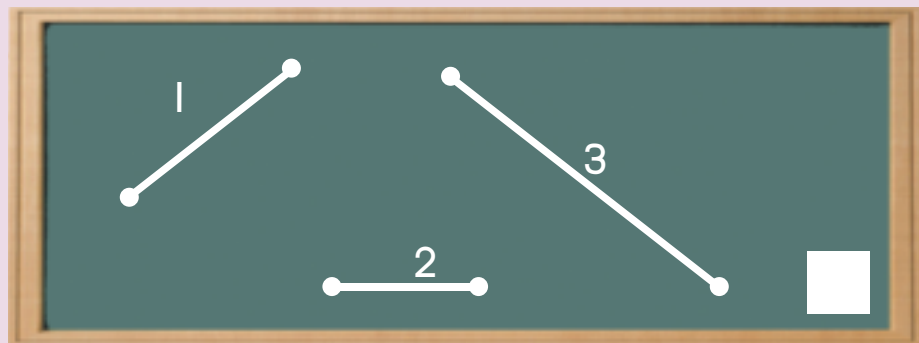
$$5 + 5 + 5 = \square$$

$$5 + 5 = \square$$

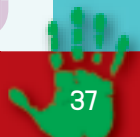
$$5 + 5 + 5 + 5 = \square$$

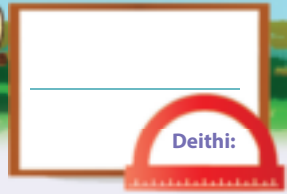
Mvusuludzo:

Mvusuludzo: Ndi mutaladzi ufhio u re mulapfusa?



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





# Phetheni dza nomboro ṭhanu ṭhanu u swika kha 50

Themo ya 3

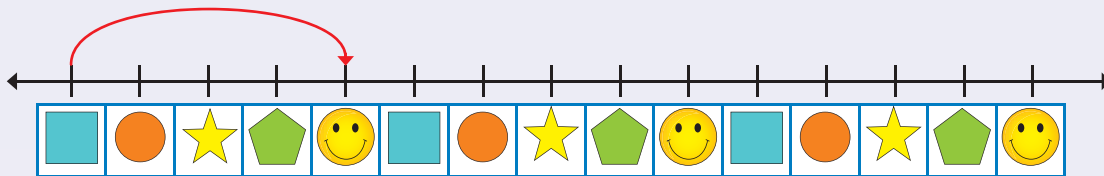


Fhedzisani phetheni ya ṭhanu nga u khalara nomboro.

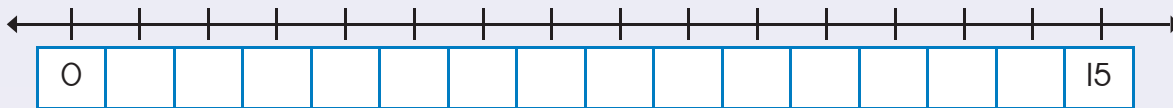
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Olani dzihupu ni tshi sumbedza zwigwada zwa zwi ṭhanu.

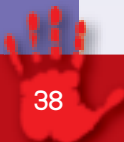
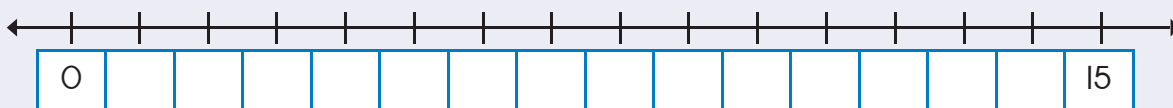


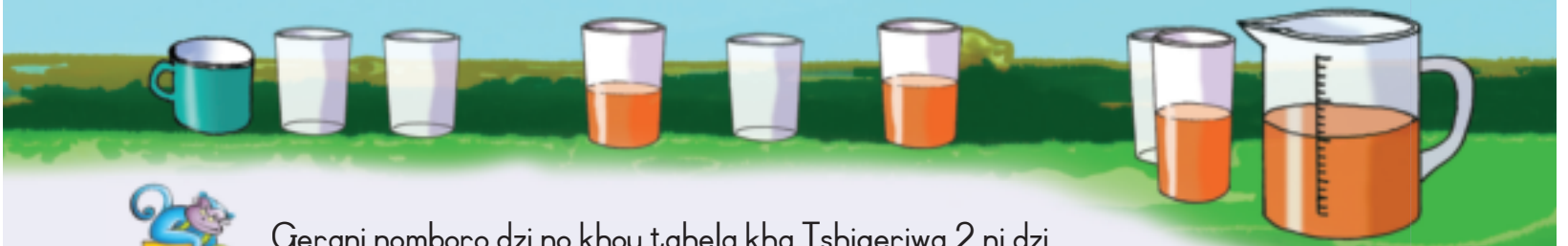
Dzhenisani nomboro dzi no khou ṭahela ni ole dzihupu ni tshi sumbedza zwigwada zwa ṭhanu.



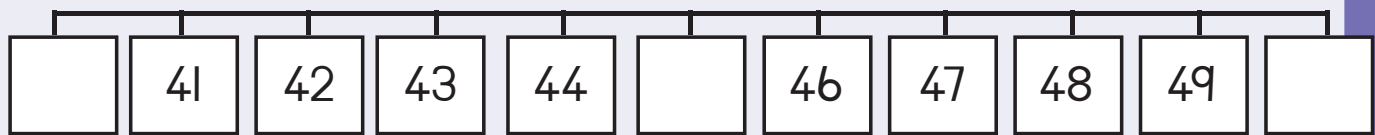
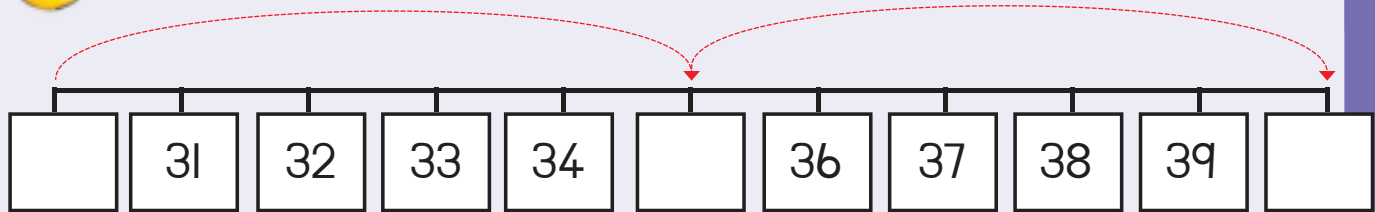
Fhedzisani mutalombalo.  
Olani dzihupu ni tshi sumbedza zwigwada zwa ṭhanu.

Hu na zwigwada zwa  zwa ṭhanu.



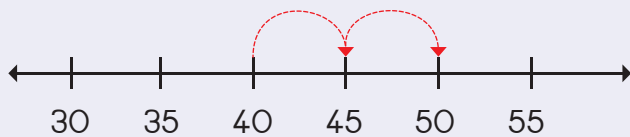


Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2 ni dzi vhee kha mitalombalo.

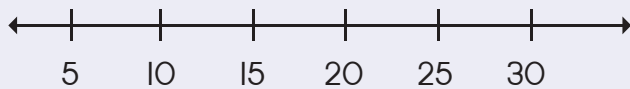


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

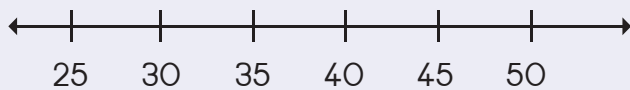
40, 45, 50



10, 15, 20

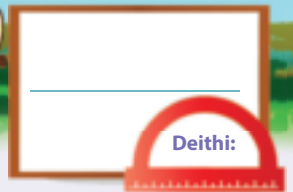


25, 30, 35



Teacher:  
Sign:  
Date:





# Phetheni dza nomboro dza t<sub>h</sub>hanu u swika kha 80

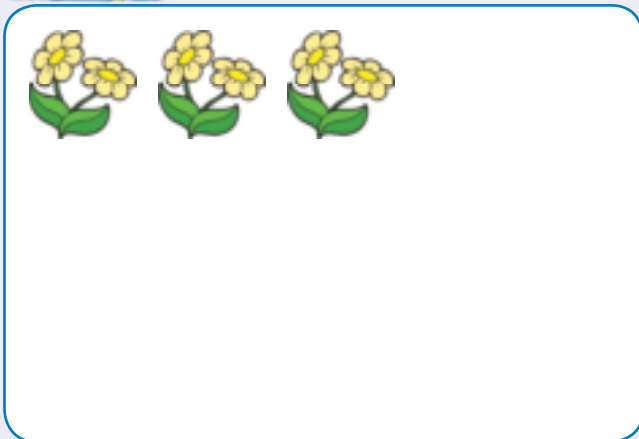
Themo ya 3



Ndi zwigwada zwingana zwa zwi<sub>t</sub>anuzwi<sub>t</sub>anu zwine na kona u zwi vhona tshifanyisoni itshi?

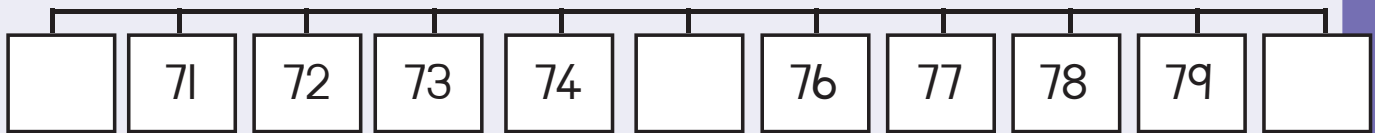
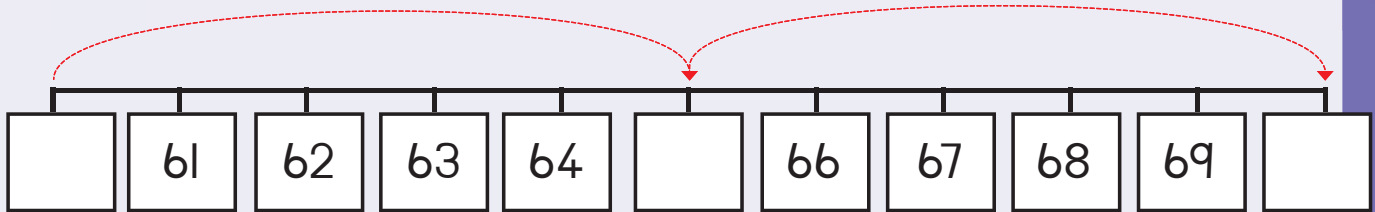


Fhedzisani zwifanyiso izwi ni tshi sumbedza zwigwada zwivhili zwa zwi<sub>t</sub>anu tshibu<sub>l</sub>okoni tshinwe na tshinwe.



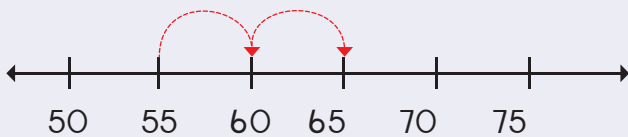


Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2 ni dzi vhee kha mitalombalo.

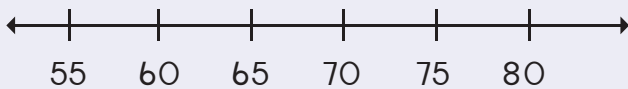


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

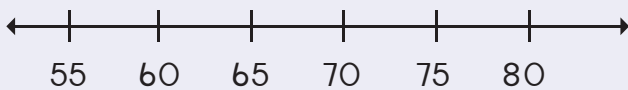
55, 60, 65



65, 70, 75

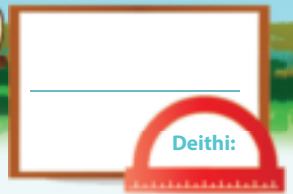


70, 75, 80



Teacher:  
Sign:  
Date:





# Nyingakavhili

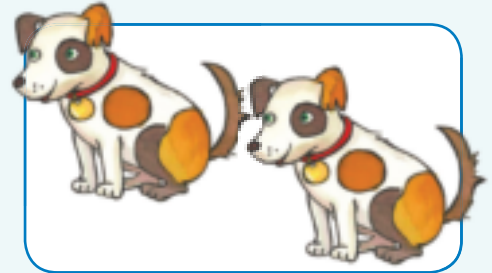
Themo ya 3



Ingani kavhili zwithu ni n'wale phindulo.



1 yo ingwa kavhili ndi



4 yo ingwa kavhili ndi



5 yo ingwa kavhili ndi



Vhalani zwiwumbeo zwi re kha besu linwe na linwe la tshisusu.

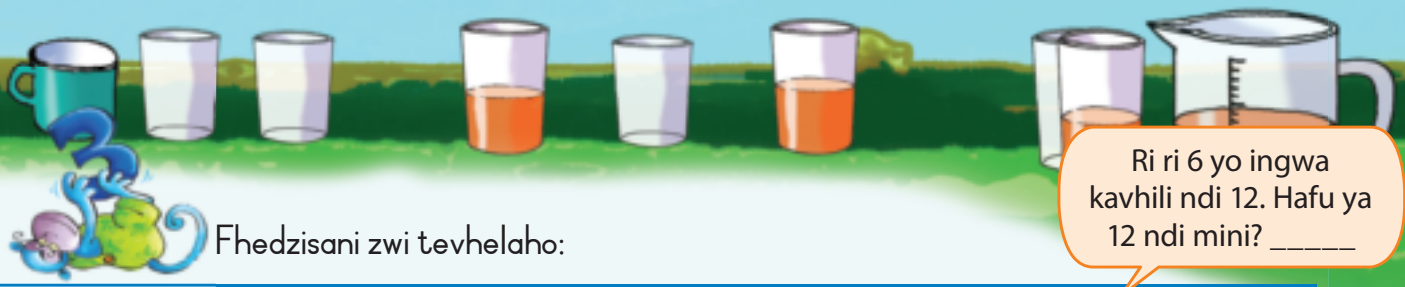
Fhedzisani mafhungombalo a nyingakavhili.

7 + 7 =  
kana  
7 yo ingwa kavhili =

5 + 5 =  
kana  
5 yo ingwa kavhili =





2 + 2 =  
kana  
2 yo ingwa kavhili =





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

Fhedzisani zwi tevhelaho:











Ni kona u vhona malinga mangana?  <input type="text"/>	Ni kona u vhona malinga mangana zwino?  <input type="text"/>	Hu na makumba mangana kha khathuni?  <input type="text"/>	Hu na makumba mangana zwino?  <input type="text"/>
--	--	--	--



Vhalani zwithoma ni zwi inge kavhili.





Ingani kavhili nomboro.

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



Fhedzisani zwi tevhelaho:

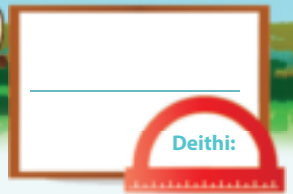
Hu na maḁvha mangana kha vhege? <table border="1" data-bbox="194 1433 576 1524"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <input type="text"/>	S	M	T	W	T	F	S								Hu na maḁvha mangana kha vhege mbili? <table border="1" data-bbox="732 1378 1357 1469"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <input type="text"/>	S	M	T	W	T	F	S							
S	M	T	W	T	F	S																							
S	M	T	W	T	F	S																							
 <input type="text"/>	 <input type="text"/>																												
Ni kona u vhona milenzhe mingana? <input type="text"/>	Ni kona u vhona milenzhe mingana zwino? <input type="text"/>																												
<input type="text"/>	Ri ri 7 yo ingwa kavhili ndi 14. Hafu ya 14 ndi mini? <input type="text"/>																												
<input type="text"/>	Ri ri 2 yo ingwa kavhili ndi 4. Hafu ya 4 ndi mini? <input type="text"/>																												



Fhedzisani zwi tevhelaho:

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

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



# Hafu

Themo ya 3



Hwayani hafu ya vhana ni ñwale phindulo.

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

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

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

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



Hwayani hafu ni ñwale phindulo.

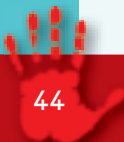
	Hafu ya 2 ndi = <input type="text"/>		Hafu ya 2 ndi = <input type="text"/>
	Hafu ya 4 ndi = <input type="text"/>		Hafu ya 10 ndi = <input type="text"/>
	Hafu ya 6 ndi = <input type="text"/>		



Hu na khovhe nngana?



Hafu ya khovhe dzothe ndi?





Vhalani zwithoma ni zwi hafule.

	2	yo hafulwa →		<input type="text" value="1"/>
	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.

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



Hu na mashonzha mangana?



Hafu ya mashonzha ndi:



Fhindulani zwi tevhelaho:

Hu na milenzhe mingana?



Hu na milenzhe mingana zwino?



Ri ri hafu ya 8 ndi



Teacher:  
Sign:  
Date:

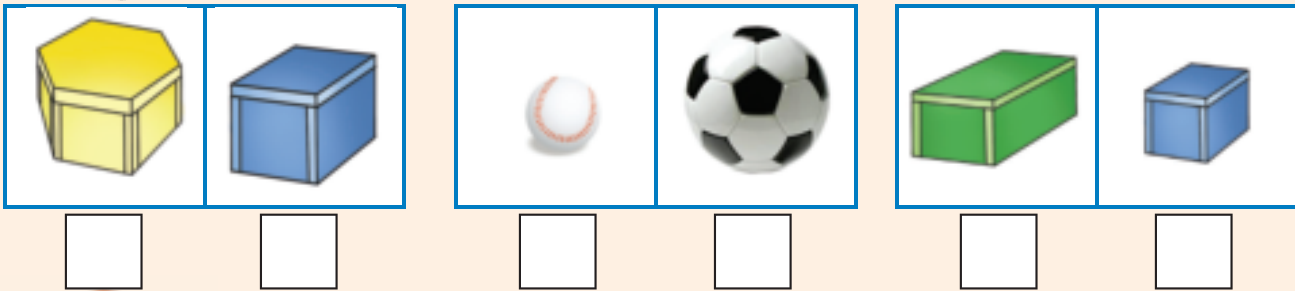




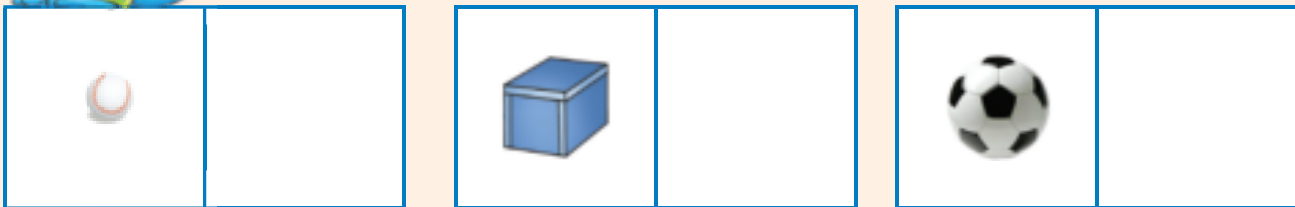
## Zwithu zwa 3-D



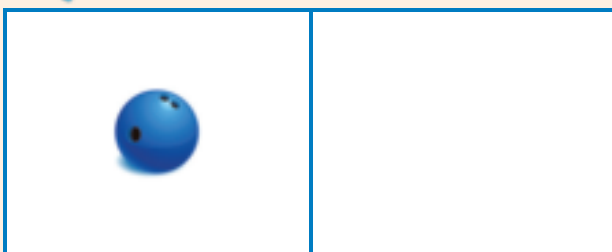
Itani thiki kha tshithu tshitukusa.



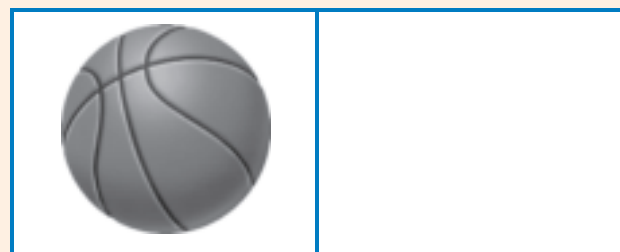
Olani tshithu tshihulwane kha tshanda tsha u la tsha tshifanyiso tshiwe na tshiwe.



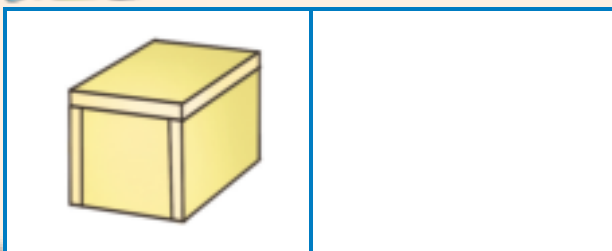
Olani bola i re khulwane kha bola ya lutombo.



Olani bola i re tshukhu kha bola ya gireyi.



Olani bogisi li re lihulwane kha bogisi la tšada.

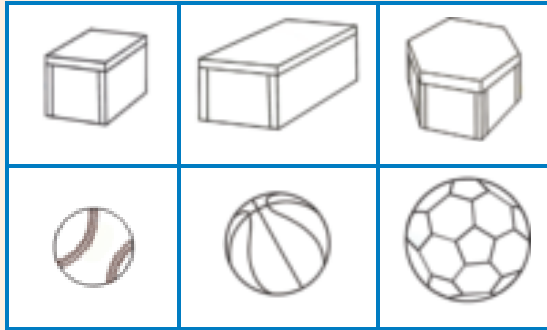


Olani bogisi li re lihulwane kha bogisi lidala.

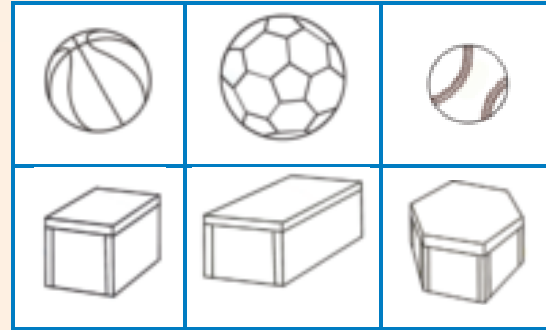




Khalarani bogisi li<sup>l</sup>tukusa nga muvhala wa lutombo na bola t<sup>h</sup>ukhusa nga muvhala wa t<sup>a</sup>da.



Khalarani bogisi li<sup>h</sup>ulwanesa nga muvhala wa pinki na bola khulwanesa nga muvhala mutswuku.



Ni nga kona u fha<sup>t</sup>a thawara nga zwithu zwi tevhelaho?



Khalarani ee kana hai.

ee	hai
----	-----

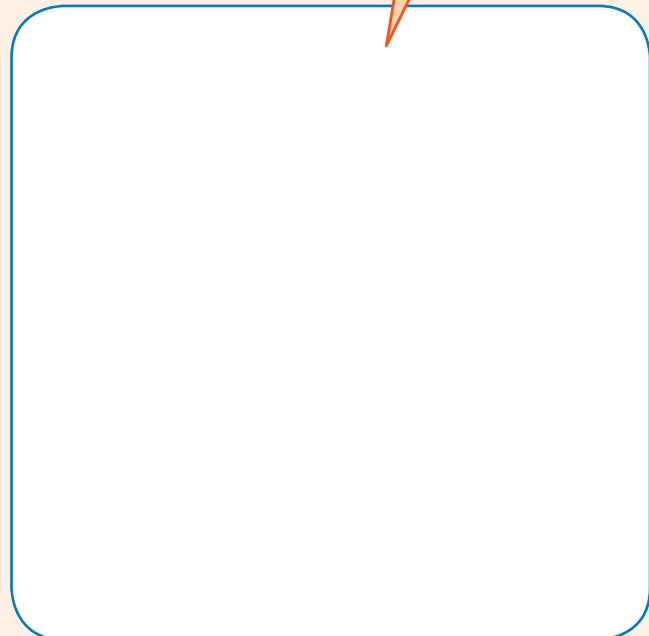
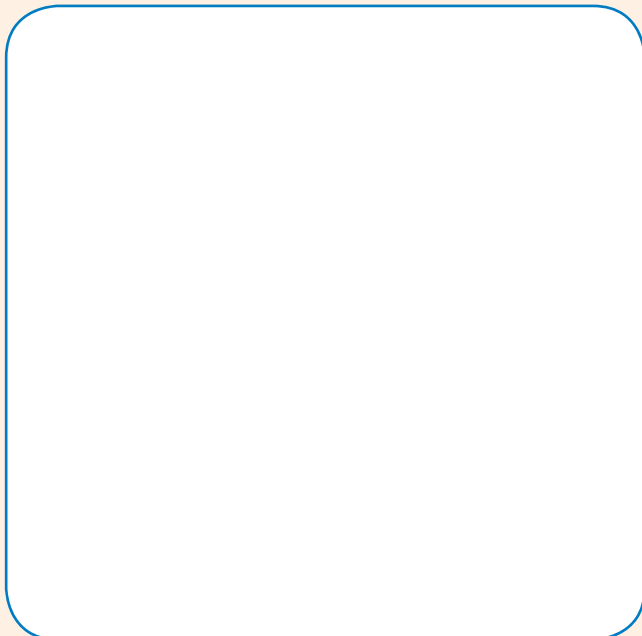
ee	hai
----	-----

ee	hai
----	-----



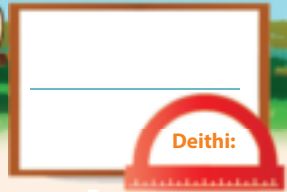
Gerani ni nambatedze zwifanyiso zwi no bva kha magazini kana gurand<sup>a</sup> ni tshi ita thawara mbili dza inwi mu<sup>n</sup>e.

Ni elelwe uri thawara idzi dzi tea u ima nga dzot<sup>h</sup>e (u balantsa).



Teacher:
Sign:
Date:





# Zwithu zwa 3-D – U swenda na u kunguluwa

Themo ya 3



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

ee    hai

ee    hai

ee    hai





Vhekanyani zwithu zwi tevhelaho nga u zwi ola tshibuḽokoni tshone.

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



Vhekanyani zwithu nga saizi yazwo ni tshi tou zwi ola.

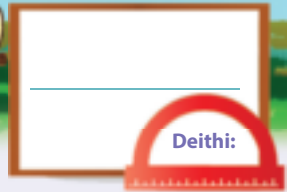
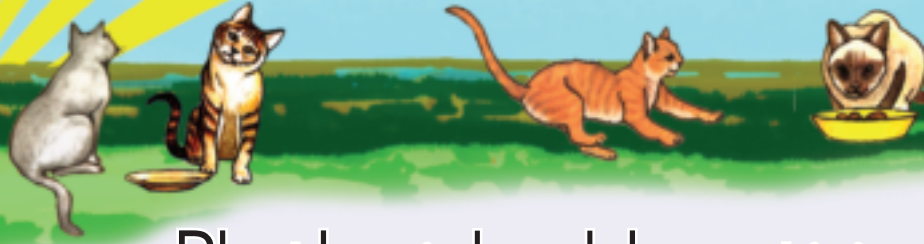
	Bola tḽhukhu	Mabogisi maḽuku
	Bola khulwane	Mabogisi mahulwane



Teacher:  
Sign:  
Date:



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# Phetheni dza dzhometiri

Themo ya 3

Mvusuludzo:

Olani zwi tevhelaho:

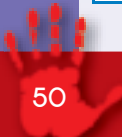
tshitendeledzi

tshikwea

rekithiengele



Fhedzisa ni phetheni.

50

0 1 2 3 4 5 6 7 8 9 10





Olani zwifanyiso ni tshi isa phanda na phetheni.




Olani phetheni yaṅu inwi muṅe.




Nambatedzani zwifanyiso ni tshi ita phetheni yaṅu inwi muṅe.



Fhedzisani phetheni iyi.

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

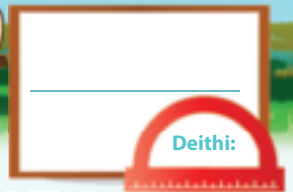




Teacher:  
 Sign:  
 Date:



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# Zwigwada zwa mbili u swika kha 15

Themo ya 3



Ñwalani dzinambalo la tshiga itshi.

2

mbili



Fhindulani mbudziso.

Ni kona u vhona phingwini nngana?

Ni kona u vhona phere nngana dza milenzhe?

I ñwaleni sa fhungombalo:



Fhindulani mbudziso.

Hu na bugu nngana?

Ndi nga kona u ita zwigwada zwingana zwa mbili?

I ñwaleni sa fhungombalo.





Ñwalani dzinambalo la tshiga itshi.


4

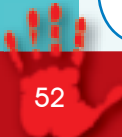


Vhalani mabesu, ni ñwale phindulo yañu.

  
 $2 + 2 =$

  
 $2 + 2 + 2 =$

  
 $2 + 2 + 2 + 2 =$





Itani zwitendeledzi u mona na zwi tevhelaho uri ni ite:

zwigwada zwa 4 zwa dza 2

zwigwada zwa 5 zwa zwa 2

zwigwada zwa 6 zwa dza 2

zwigwada zwa 7 zwa dza 2



Nwalani fhungombalo la zwi tevhelaho.






Ni nga ita zwigwada zwingana zwa zwi vhili?

13 na I dzi ita	zwigwada zwa
11 na I dzi ita	zwigwada zwa
9 na I dzi ita	zwigwada zwa
7 na I dzi ita	zwigwada zwa

12 na i dzi ita	zwigwada zwa
5 na I dzi ita	zwigwada zwa
1 na I dzi ita	zwigwada zwa
10 na O dzi ita	zwigwada zwa

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

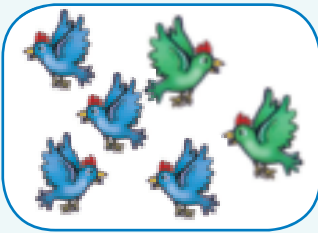
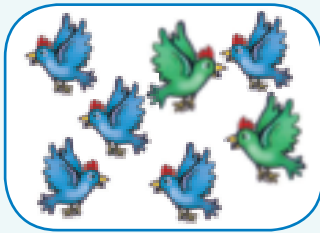
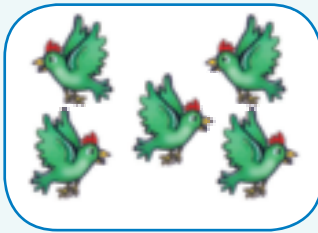


## Ndovhololo ya mutanganyo wa mbili u swika kha 15

Themo ya 3



Hu na milenzhe mingana?

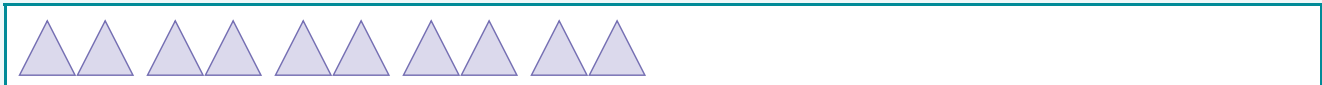


No i vhalisa hani?



Olani zwivhumbeo ni tshi sumbedza zwi tevhelaho:

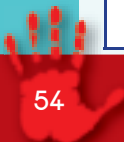
$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{0}}$$



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

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

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





Ñwalani mafhungombalo a zwi tevhelaho:

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



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



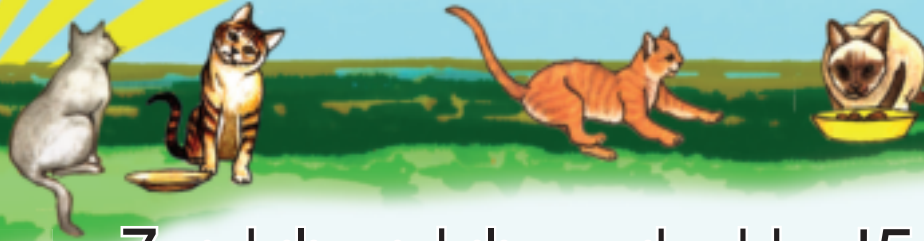
Fhedzisani phetheni iyi ya nomboro dzine na ḽo dzi shumisa kha u vhumba zwigwada zwa zwi vhlizwivhili.

I	2	3	4	5	6	7	8	9	10
II	12	13	14	15					



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

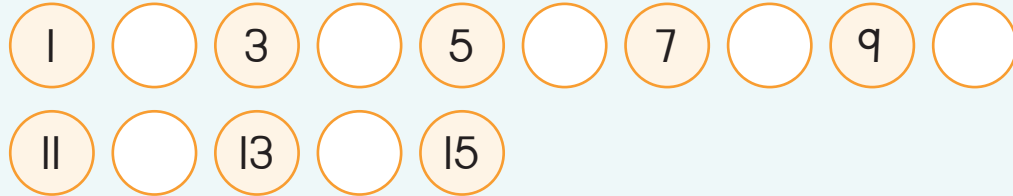




## Zwivhilizwivhili u swika kha 15

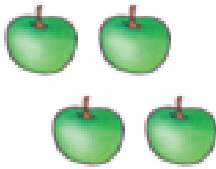


Ñwalani nomboro dzi no khou t̄ahela.



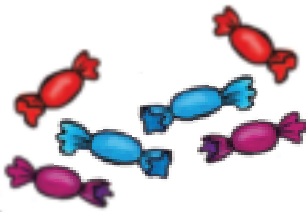
Itani zwigwada zwa mbili.

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



Hu na zwigwada zwingana zwa maapula?

Ñwana muñwe na muñwe u ɔ̄o wana maapula mangana?



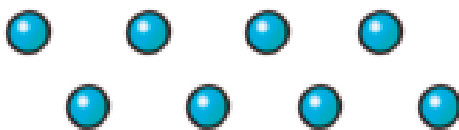
Hu na zwigwada zwingana zwa maḷegere?

Ñwana muñwe na muñwe u ɔ̄o wana maḷegere mangana?



Hu na zwigwada zwingana zwa mimavhuḷu?

Ñwana muñwe na muñwe u ɔ̄o wana mimavhuḷu mingana?



Hu na zwigwada zwingana zwa mimavhuḷu?

Ñwana muñwe na muñwe u ɔ̄o wana mimavhuḷu mingana?





# Phetheni dza nomboro 2 u swika kha 50

Themo ya 3



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



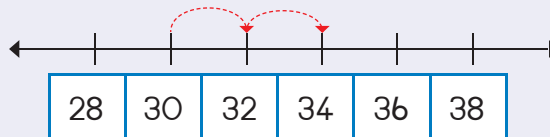
Fhedzisani phetheni nga u khalara nomboro dzone.

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

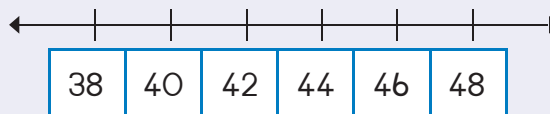


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

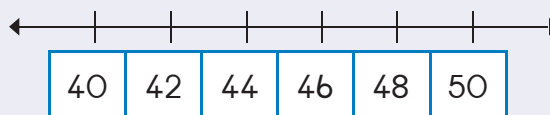
30, 32, 34



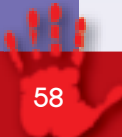
40, 42, 44



46, 48, 50

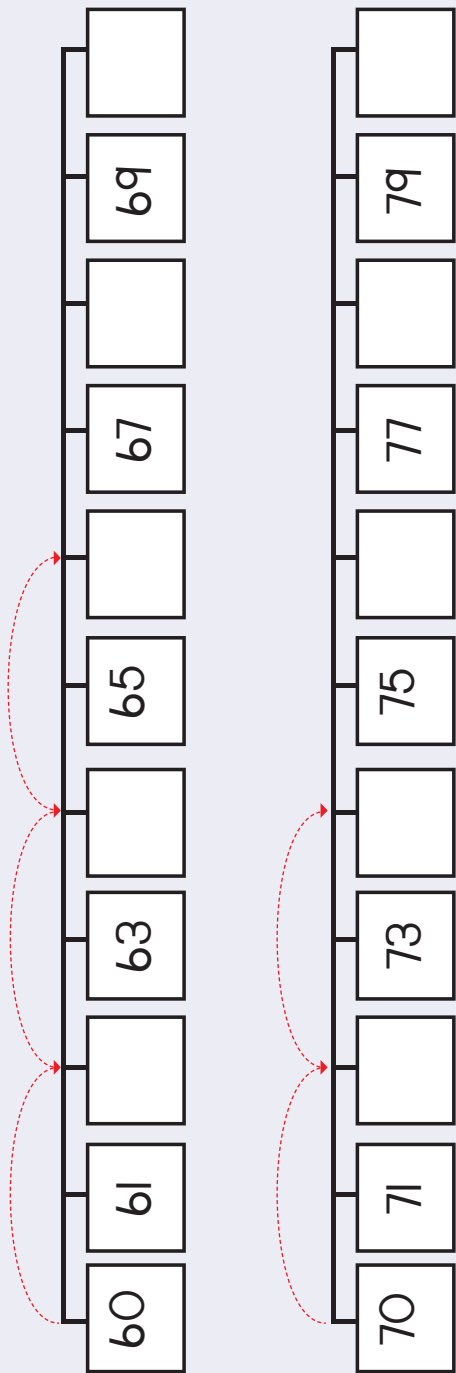


39	49
37	47
35	45
33	43
31	41
30	40





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



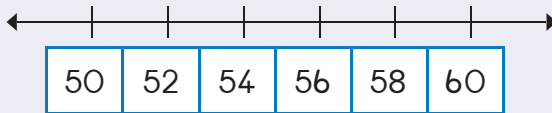
Fhedzisani phetheni nga u khalara nomboro dzone.

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

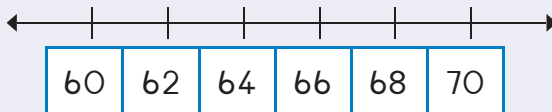


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

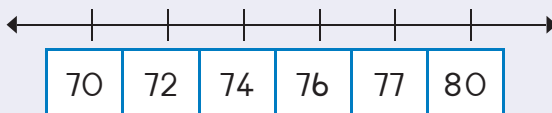
54, 56, 58



64, 66, 68



72, 74, 76



Teacher:  
Sign:  
Date:



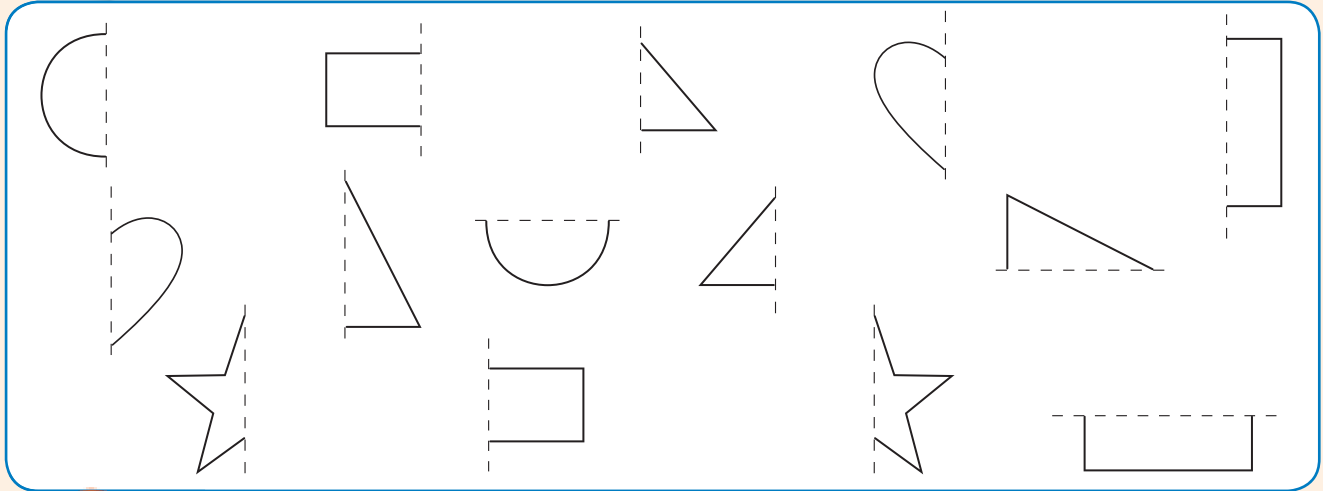


# Ndinganahuvhili

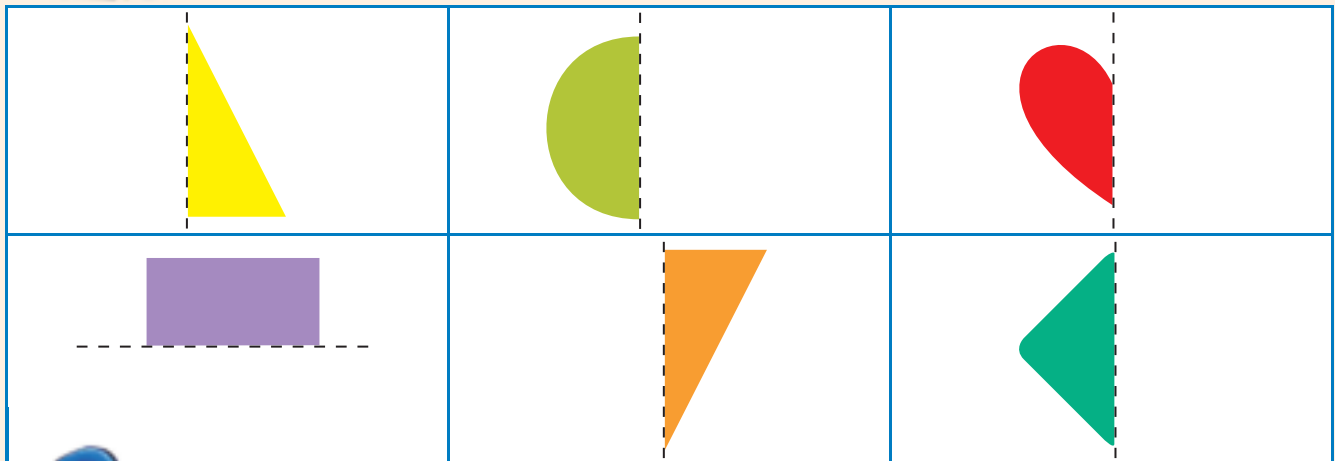
Themo ya 3



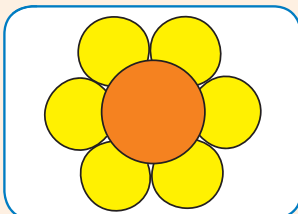
Khalarani zwipida zwivhili zwa zwivhumbeo zwine zwa do vhumba tshivhumbeo tshithihi.

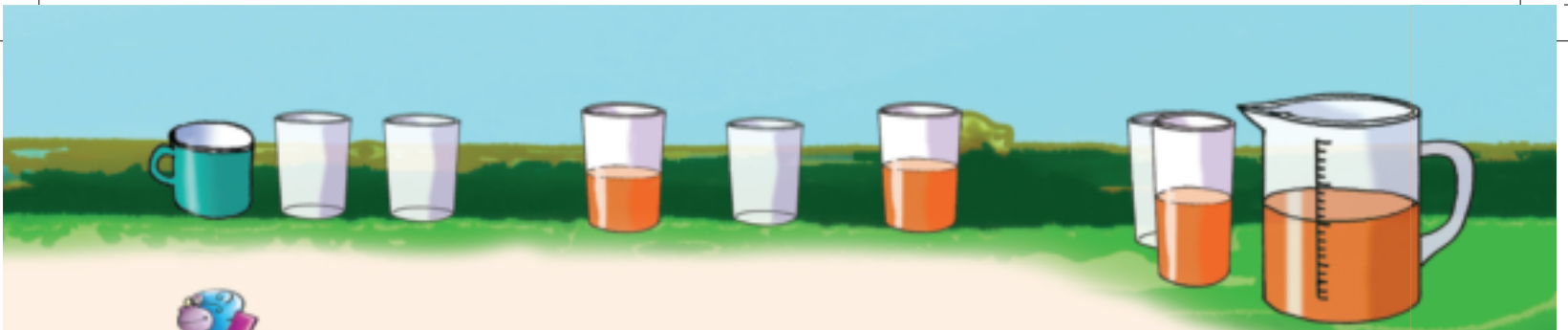


Olani ila inwe hafu ni i khalarare.



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

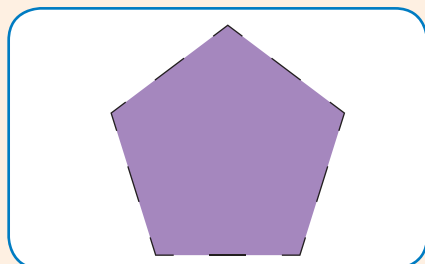
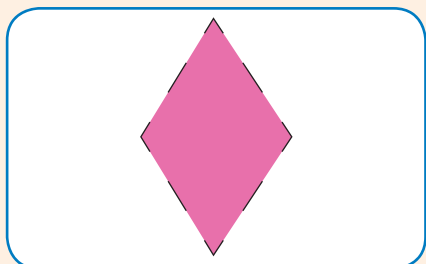
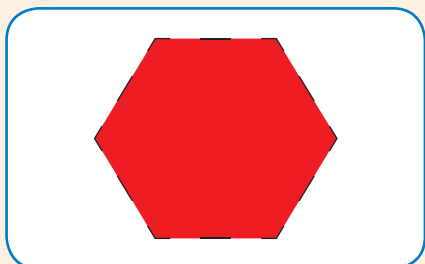




Olani ila inwe hafu ya tshivhumbeo ni tshi shumisa bodo ya giridi uri i ni dededze.




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



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





# Momboro na vhuimo ha nomboro

Themo ya 3



Ñwalani nomboro dzi no khou t̄ahela.

10	11				15
9	10				



Ñwalani nomboro dzi no khou t̄ahela.

←									→
6	7			10	11				15
←									→
15	14				10				6



Ñwalani phindulo.

$10 + 1 =$	11	$15 - 10 =$	
$10 + 2 =$		$14 - 10 =$	
$10 + 5 =$		$12 - 10 =$	
$10 + 3 =$		$11 - 10 =$	





Rekanyani mbalo inwe na inwe ya mivhala ni khalare 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



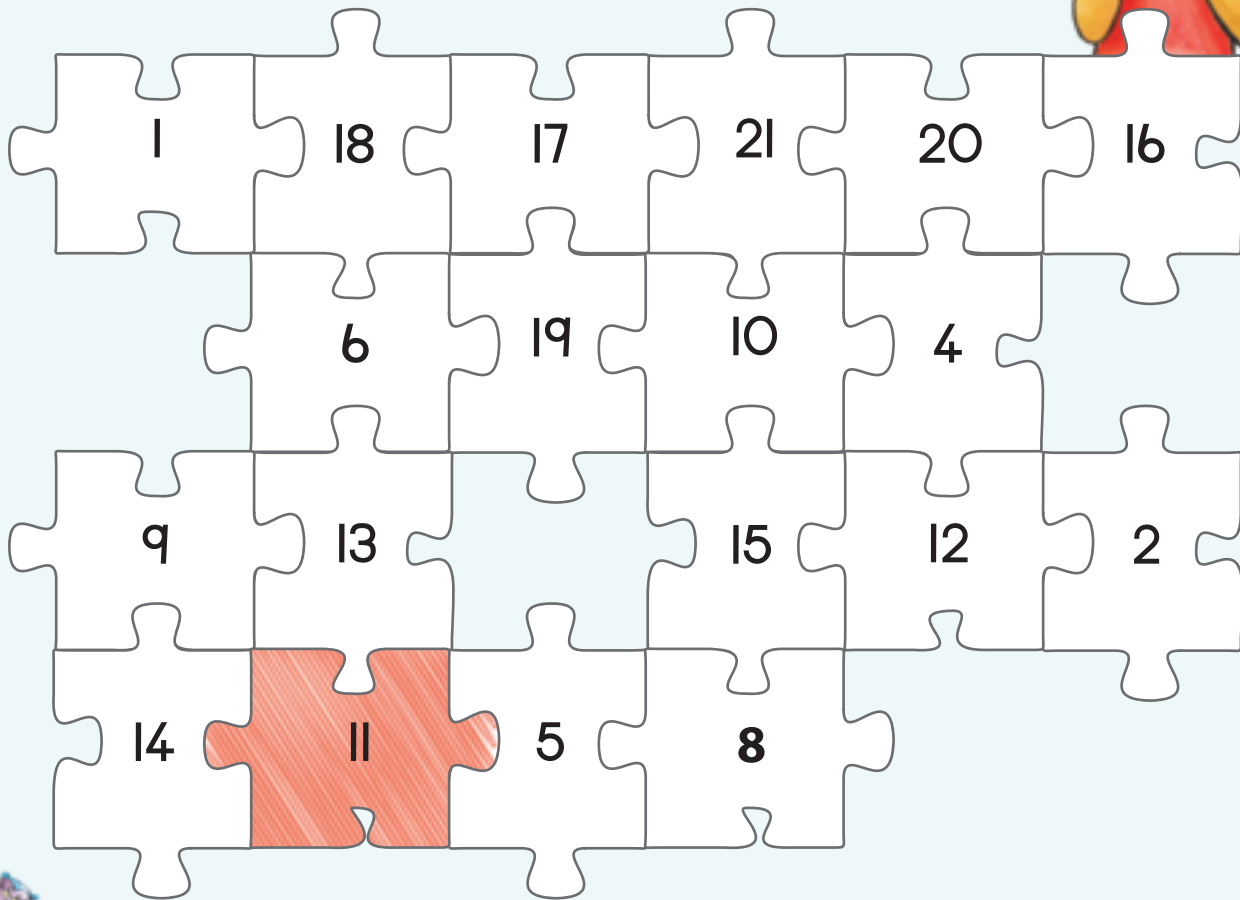
10 + 4 nga mutāda



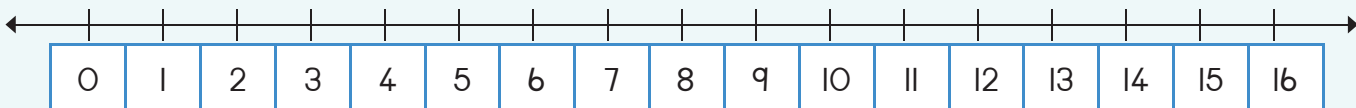
10 + 0 nga mudala



10 + 2 nga wa tshitopana



Sumbedzani fumi na ina kha mutalombalo:

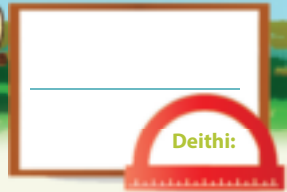


11 12 13 14 15 16 17 18 19 20



Teacher:  
Sign:  
Date:





# Vhulapfu (Vhunavha)

Themo ya 3



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

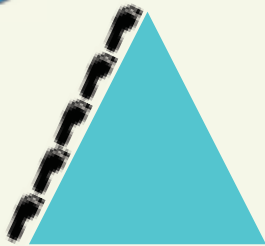


Vhulapfu vhu lingana vhulapfu ha tshanda ha \_\_\_\_\_.

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



Ndi maga mangana a no ela vhulapfu ha matungo?

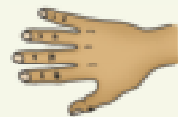




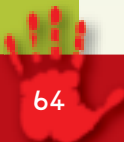




Nwalani phindulo.

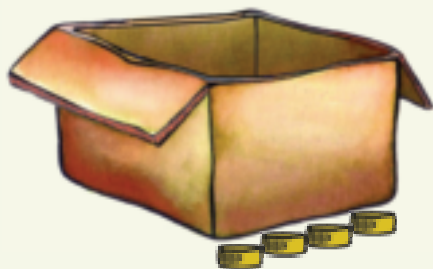


Vhulapfu vhu lingana vhulapfu ha tshanda ha \_\_\_\_\_.





Vhulapfu na vhuphara ha bogisi ili ndi vhufhio?



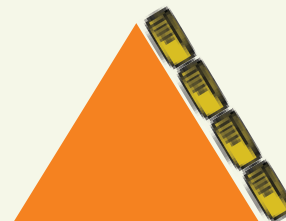
Vhulapfu ha hone vhu lingana vhulapfu ha zwithivho zwa babodelo zwa \_\_\_\_\_.

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

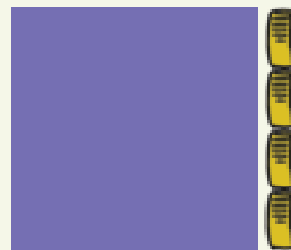


Ndi zwithivho zwingana zwi no ela vhulapfu ha matungo.





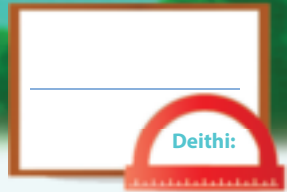






Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_





# Nomboro 16

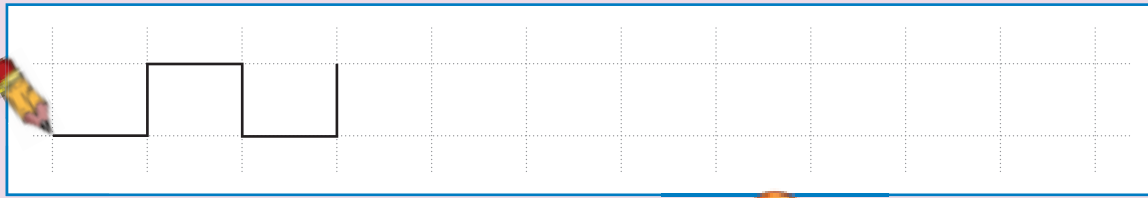
Themo ya 4

Mvusuludzo:

Itani ndowendowe ya u n'wala dzinambalo ni f'hedzise phetheni.

7

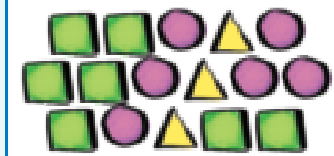
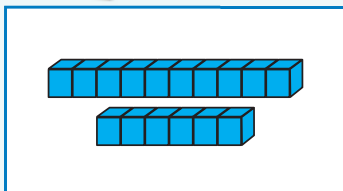
sumbe



Livhanyani zwifanyiso.

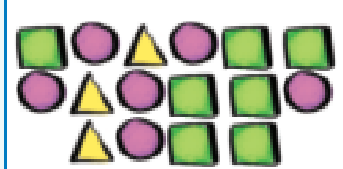


Tovhedzelani nomboro.



16 16 16 16

fimirathi

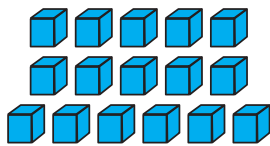


16

16 16 16 16

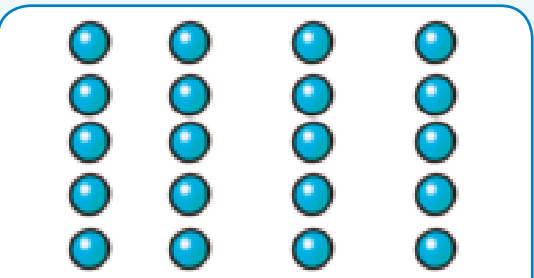
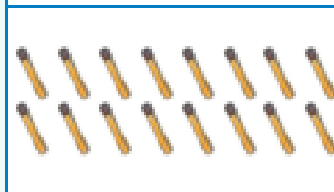
fimirathi

10  
6



Tangedzelani mimbete ya 16 fhedzi.

16



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



10  
6





Olani zwithu zwa 16.

Zwino zwi oleni nga ndila inwevho.



Nwalani nomboro i no khou tshela.

2	3	4
19		21
17		19



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

	16	
		fimirathi



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



Ndi nomboro ifhio i re tshukhu kha fumirathi nga thihi?

Ndi nomboro ifhio i re tshukhu 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 tshela.

10	9		7	6		4	3		1

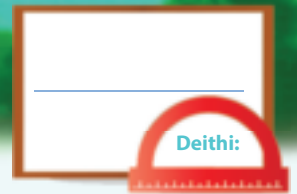


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





# Nomboro 17

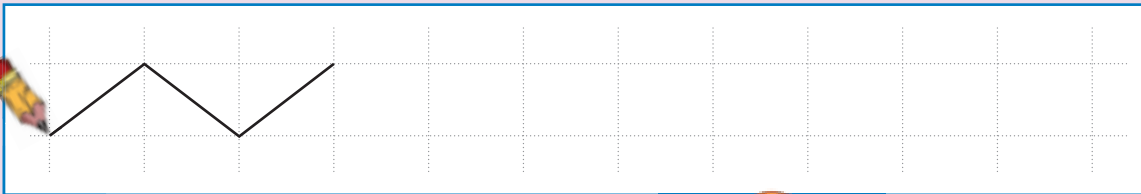
Themo ya 4

Mvusuludzo:

Itani ndowendowe ya u n'wala dzinambalo ni f'hedzise phetheni.

8

malo



Livhanyani zwifanyiso.



Tovhedzelani nomboro.

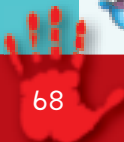
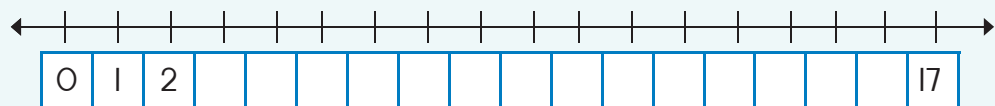
10 7
17

17
10 7

17	17	17	17
fumisumbe			
17	17	17	17
fumisumbe			



Fhedzisani mutalombalo.





Olani zwithu zwa 17.

Zwino zwi oleni nga ndila inwevho.



Ndi nomboro ifhio i no tevhela?

16	17	
24	25	
17	18	



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

	17	
		fumisumbe



Ndi nomboro ifhio i re tshukhu kha fumisumbe nga thihhi?	
Ndi nomboro ifhio i re tshukhu kha fumisumbe nga mbili?	
Ndi nomboro ifhio i re khulwane kha fumisumbe nga thihhi?	
Ndi nomboro ifhio i re khulwane kha fumisumbe nga mbili?	



Nwalani nomboro i no khou tshahela.

Nwalani nomboro dzi no khou tshahela.

	2		4		6		8		10
	12		14		16		18		20



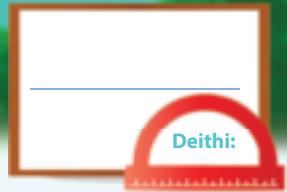
Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



99



# Nomboro 18

Themo ya 4

Mvusuludzo:

Itani ndowendowe ya u n'wala dzinambalo ni f'hedzise phetheni.

9      tshane



Livhanyani zwifanyiso.



Tovhedzelani nomboro.

10      8

18

18

10      8

18   18   18   18

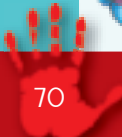
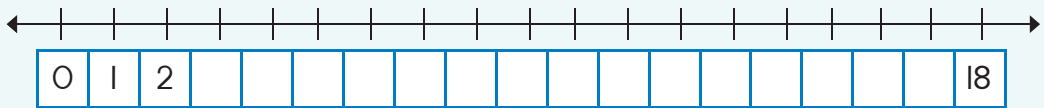
fumimalo

18   18   18   18

fumimalo



Fhedzisani mutalombalo.



0 1 2 3 4 5 6 7 8 9 10





Olani zwithu zwa 18.

Zwino zwi oleni nga ndila inwevho.



Ndi nomboro ifhio i no tevhela?

8	9	
33	34	
0	1	



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

	18	
		fumimalo



Ndi nomboro ifhio i re tshukhu kha 18 nga thihhi?

Ndi nomboro ifhio i re tshukhu kha 18 nga mbili?

Ndi nomboro ifhio i re khulwane kha 18 nga thihhi?

Ndi nomboro ifhio i re khulwane kha 18 nga mbili?



Nwalani nomboro i no khou tshahela.

1	2		4	5	6	7		9	10
11		13	14	15		17	18		20



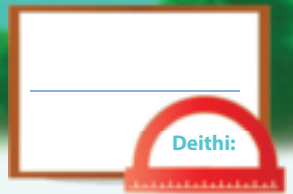
Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



100



# Nomboro 19

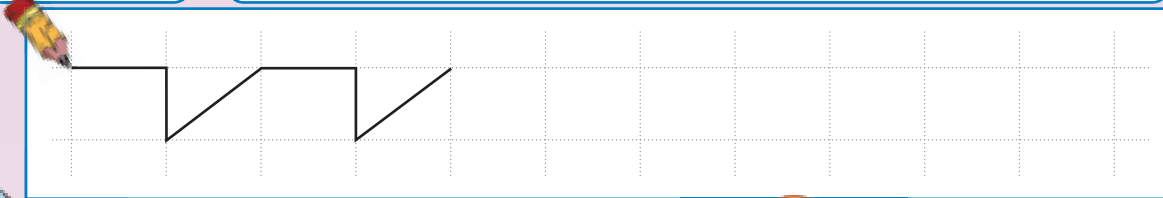
Themo ya 4

Mvusuludzo:

Itani ndowendowe ya u n'wala dzinambalo ni f'hedzise phetheni.

10

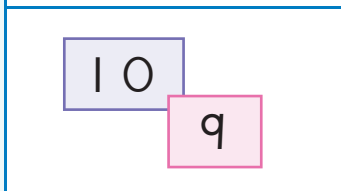
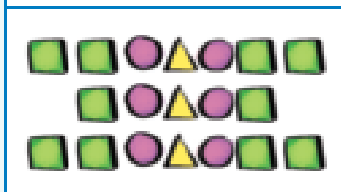
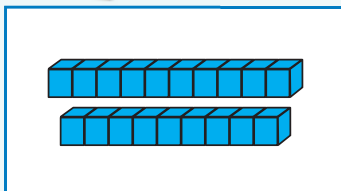
fumi



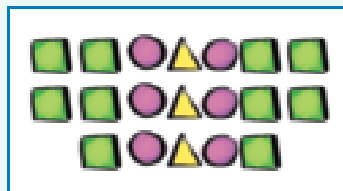
Livhanyani zwifanyiso.



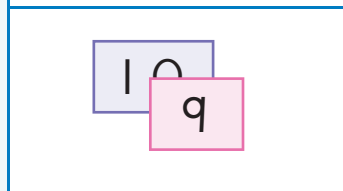
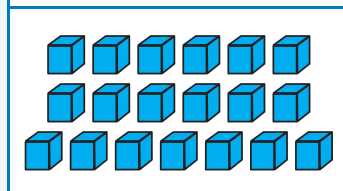
Tovhedzelani nomboro.



19



19



19 19 19 19

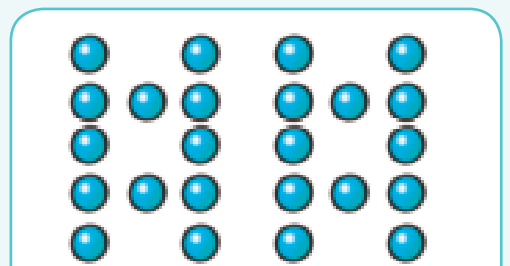
fumiṭahe

19 19 19 19

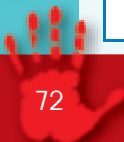
fumiṭahe



Tangedzelani vhulungu ha 19 fhedzi.



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



0 1 2 3 4 5 6 7 8 9 10





Olani zwithu zwa 19.

Zwino zwi oleni nga ndila inwevho.



Ndi nomboro ifhio i no da vhukati?

14		16
35		37
8		10



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

	19	
		fumitche



Ndi nomboro ifhio i re tshukhu kha 19 nga thihhi?

Ndi nomboro ifhio i re tshukhu kha 19 nga mbili?

Ndi nomboro ifhio i re khulwane kha 19 nga thihhi?

Ndi nomboro ifhio i re khulwane kha 19 nga mbili?



Nwalani nomboro i no khou tshahela.

I		3		5		7		9	
II		13		15		17		19	

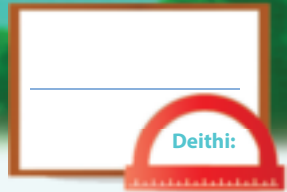
Liñwe dzina ladzo ndi nomboro dza ivini.

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





## Nomboro 20

Themo ya 4



Livhanyani zwifanyiso.





Tovhedzelani nomboro.

20 20 20 20

fumbili

20 20 20 20

fumbili



Tangedzelani vhungu 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.

	20	fumbili
		fumbili
20		



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

- ina
- sumbe
- ṭahe
- raru
- fumithihi
- fumimbili
- thihi
- mbili
- malo
- zero
- ṭhanu
- rathi
- fumiraru
- fumi
- fumiina



Nwalani nomboro i no khou  
ṭahela.

Rangela		Tevhela
16	17	
	12	
	14	
	9	10
	6	

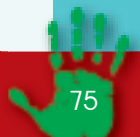


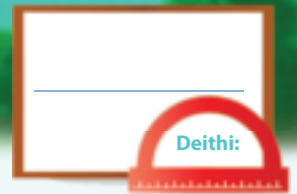
Shumisani maipfi a ṭhukhu na  
khulwane ni ṭshi f̣hedzisa hezwi:

35 ndi _____ kha 38
79 ndi _____ kha 65



Teacher:
Sign:
Date:





# Mutanganyo

Themo ya 4



Tangedzelani nomboro i re khulwane tshibu lokoni tshinwe na tshinwe.

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 zwibu loko.

$10 + 2 + 3 = 15$ $10 + 5 = 15$	  	  
------------------------------------	----------	----------



Nwalani fhungombalo la zwi tevhelaho.

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





Nwalani fhungombalo la zwi tevhelaho:

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



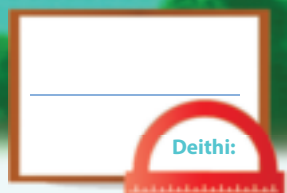
Nwalani nomboro dzi no khou t̄ahela.

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



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





# Mutuso

Themo ya 4



Rekanyani.

17		<input type="text"/>
19		<input type="text"/>
14		<input type="text"/>
12		<input type="text"/>



Nwalani fhungombalo.

<input type="text"/>					



Nwalani fhungombalo.

<input type="text"/>					



Rekanyani.

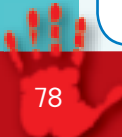
18		<input type="text"/>
7		<input type="text"/>
15		<input type="text"/>
9		<input type="text"/>



Fhedzisani mbalo ni tshi shumisa nyolo (zwifanyiso).

	$16 - \square = \square$
	$\square = 11$

	$10 + \square = \square$
--	--------------------------





Tusani zwibuloko.

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



Rekanyani zwi tevhelaho.

$11 + 7 = \square$	$11 + 7 = \square$
$11 + 4 + \square = \square$	$11 + 5 + \square = \square$
$19 - 7 = \square$	$17 - 9 = \square$
$19 - (5 + \square) = \square$	$17 - (7 + \square) = \square$



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:

$9 + 9 - 1 =$		kana	Ho ingwa kavhili $9 - 1 =$	
		kana	Ho ingwa kavhili $5 - 1 =$	
$4 + 4 - 1 =$		kana		

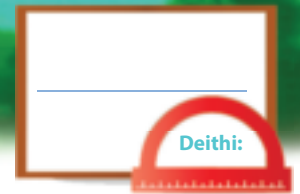


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





## Mutanganyo na mutuso

Themo ya 4



Vhalani uri ho dzula zwimange zwingana duvhani.  
Vhusiku zwiṅwe zwazwo zwi eḁela nga murahu ha luvhondo.  
Wanani tshivhalo tsha zwimange zwi re murahu ha luvhondo ni tshi ṅwale.

→

$$3 + \square = 8$$

→

$$4 + \square = \square$$


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



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

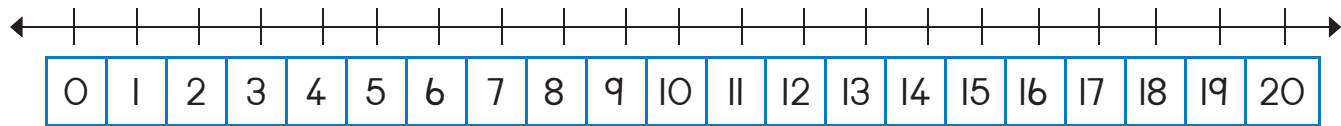
Mandla u na kharayoni dza 5. Anne u na kharayoni dza 8.  
Ndi nnyi a re na kharayoni tḁhukhu?



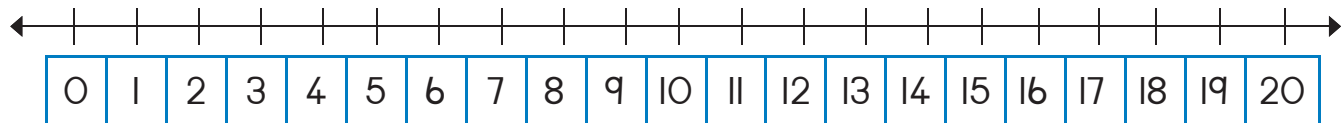


Shumisani mutalombalo kha u tandulula zwi tevhelaho:

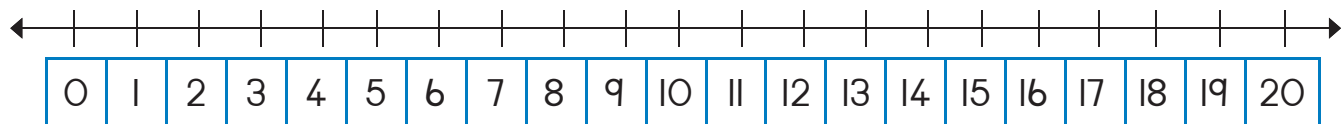
Thandi u na mimavhulu midala ya 6 na ya lutombo 9.  
U na mimavhulu mingana?



Lerato u na mimavhulu ya 16. Ya malo ndi midala ngeno miñwe yotlhe 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

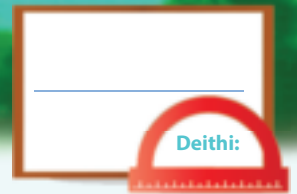
Tangedzelani nomboro i re khulwane  
kha 76 nga 2.

74 75 76 77 78



Teacher:  
Sign:  
Date:





# Nomboro zwadzo

Themo ya 4

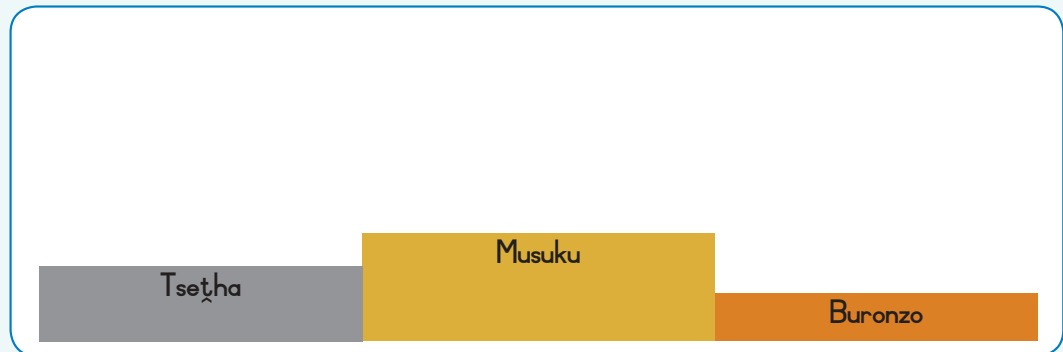


Ndi iyi we a dzhia vhuimo ha u thoma mbambeni?  
Nwalani vhuimo nga fhasi havho.

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



Vha oleni vho ima n̄ha ha phodiamu.



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

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



Olani ndunzhedzo ya vhulungu nga heyi ndila:

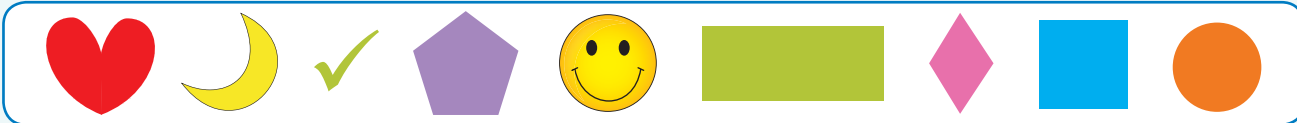
- Lulungu lwa u thoma ndi lwa lutombo.
- Lulungu lwa vhuvhili ndi lutswuku.
- Lulungu lwa vhuraru ndi ludala.
- Lulungu lwa vhuṅa ndi lwa ṭaḁa.
- Lulungu lwa vhuṭanu ndi lwa lutombo.
- Lulungu lwa vhurathi ndi lutswuku.
- Lulungu lwa vhusumbe ndi ludala.
- Lulungu lwa vhumalo ndi lwa ṭaḁa.
- Lulungu lwa vhuṭahe ndi lwa lutombo.
- Lulungu lwa vhufumi ndi lutswuku.

Ndunzhedzo ya vhulungu hanga.





Lavhelesani thevhekano ya zwiivhumbeo.  
Kopololelani zwiivhumbeo zwikhalani zwone kha thebulu.  
Ro dzula ro ni itela ya u thoma.

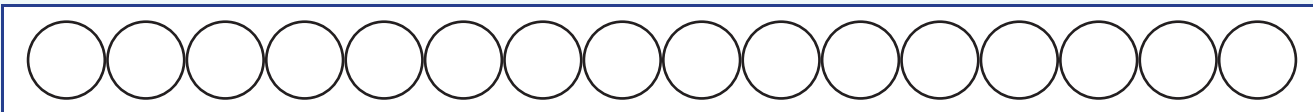


Ndi tshivhumbeo tshifhio tshi re tsha:

Vhuna		Vhusumbe	
Vhutaanu		Vhutahe	
Vhuvhili		Ufhedza	
Vhuraru		Vhurathi	



Itani zwi tevhelaho:



Khalarani tshitendeledzi tsha u thoma nga muvhala mutswuku.



Khalarani tshitendeledzi tsha vhuṭanu nga muvhala wa ṭaḡa.



Khalarani tshitendeledzi tsha vhumalo nga muvhala wa lutombo.



Itani mutalombalo wa 10 u swika kha 20.  
Tangedzelani nomboro ya vhuraru na ya vhumalo.



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

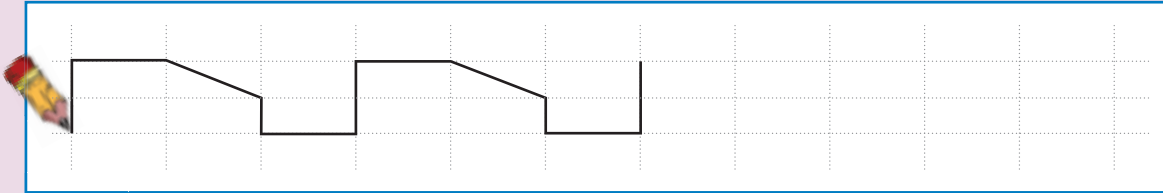




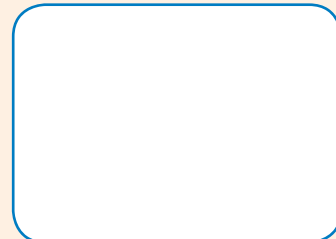
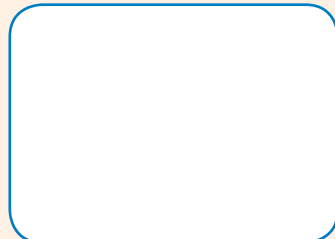
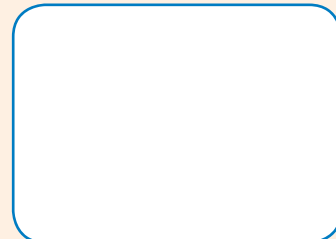
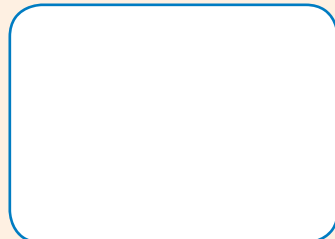
## Zwithu na zwivhumbeo

Mvusuludzo:

Mvusuludzo: Fhedzisani phetheni.



Wanani zwifanyiso zwivhili zwa bola na zwifanyiso zwivhili zwa mabogisi kha gurandza 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.





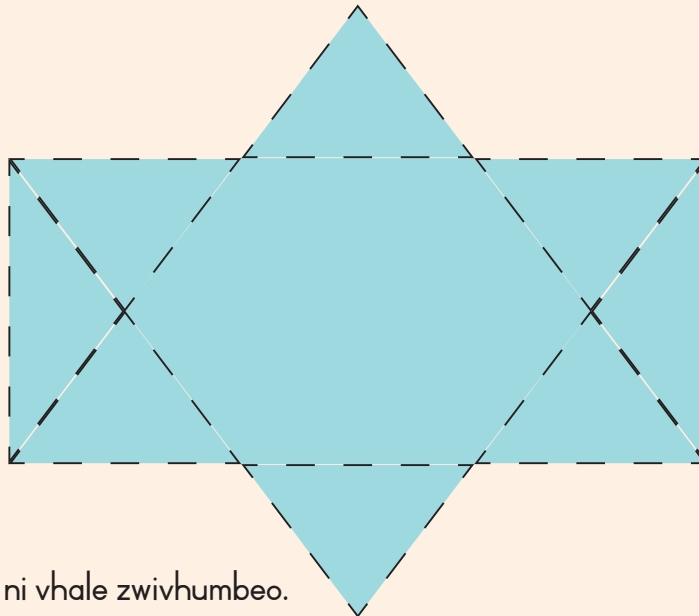
Tevhedzelani ipfi ni ole tshithu.

bogisi

bola



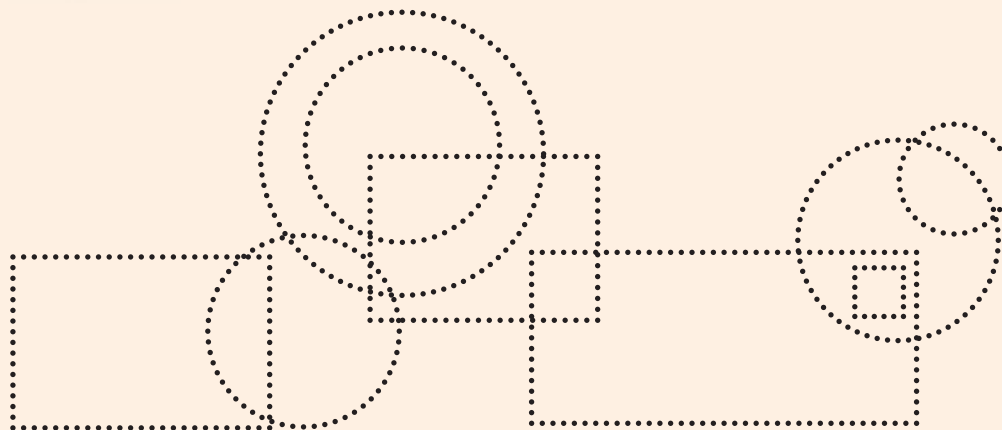
Vhalani thiraiengele dzothe ni n'wale nomboro.



Phindulo:



Tevhedzelani ni vhale zwivhumbeo.

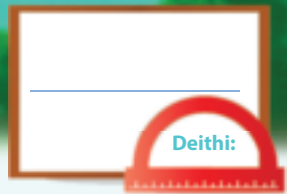


Zwitendeledzi

Zwikwea

Teacher:  
Sign:  
Date:





# Tshelede

Themo ya 4

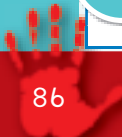


Ni nga livhanya khoini dzifhio?



Itani thiki tshibogisini tshinwe na tshinwe tsini na khoini na noutu (ya mabambiri) 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"/>
R20		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
R15		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>





Ṱusani R2.

 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math>R12 - R2 = R10</math> </div>	 <div style="border: 1px solid black; height: 30px; width: 100%; margin: 10px auto;"></div>	 <div style="border: 1px solid black; height: 30px; width: 100%; margin: 10px auto;"></div>
---	--	---




Ṱusani R5.

 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math>R15 - R5 = R10</math> </div>	 <div style="border: 1px solid black; height: 30px; width: 100%; margin: 10px auto;"></div>	 <div style="border: 1px solid black; height: 30px; width: 100%; margin: 10px auto;"></div>
--	---	--



Ni nga ola t̄hangano 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.

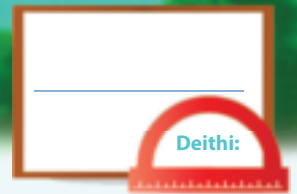


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



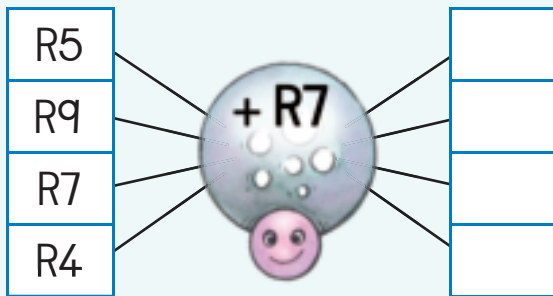


# Tshelede inwe hafhu

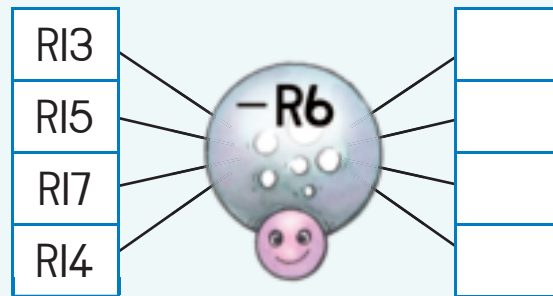
Themo ya 4



Rekanyani.



Rekanyani.



Nwalani phindulo.

$R10 + R1 =$	
$R10 + R2 =$	
$R10 + R3 =$	
$R10 + R4 =$	
$R10 + R5 =$	



Ndi ifhio khulwane (nnzhi)?  
Tangedzelani phindulo yanu.

5c kana R5
20c kana R20
R1 kana 50c
R2 kana R1
20c kana 50c



Tanganyani nomboro dzi tshi buḁa kana dzi tshi tsitsa ni nḁwale phindulo.

R2	R4	R9	=
R7	R3	R5	=
R6	R8	R1	=
=	=	=	=





Lavhelesani tsumbo ni fhedzise dzo salaho.



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

R17	=	R10	+	R7
R16	=		+	
R15	=		+	
R14	=		+	
R13	=		+	
R12	=		+	

Mbudziso i ri mini?

---

---

Nwalani nomboro.

---

Nwalani mbalo ni i shume.

---



Mme a Busi vho renga muñadzi wa R17. 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.

---

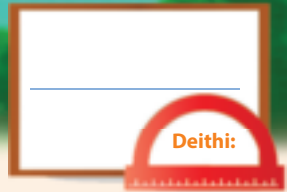
Nwalani mbalo ni i shume.

---



Teacher:  
Sign:  
Date:



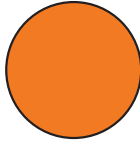

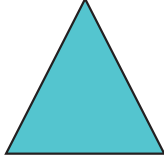





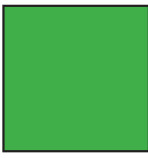





# Zwivhumbeo zwa 2-D

Themo ya 4

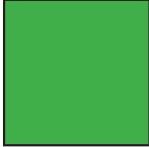

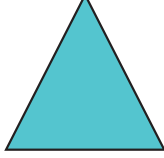


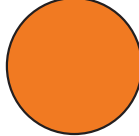
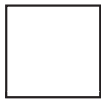

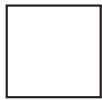





Itani thiki kha tshivhumbeo tshitukusa tshibulokoni tshinwe na tshinwe.



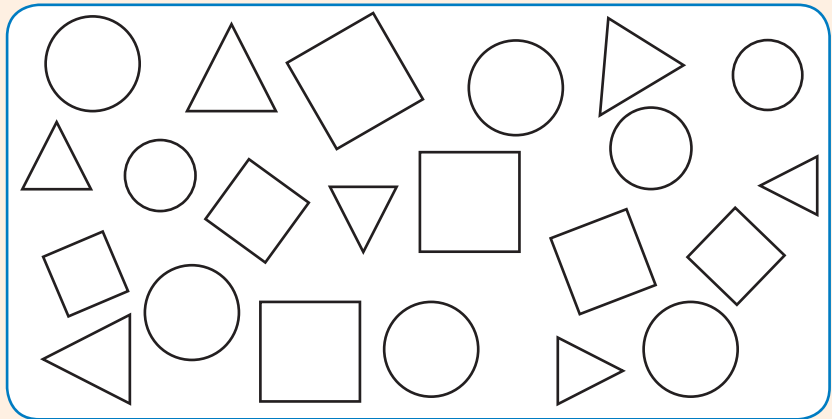
Itani thiki kha tshivhumbeo tshihulwanesa tshibulokoni tshinwe na tshinwe.



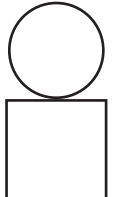


Khalarani:

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



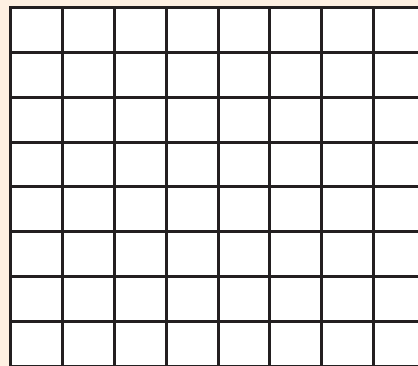
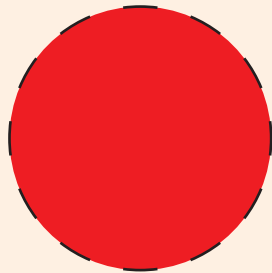
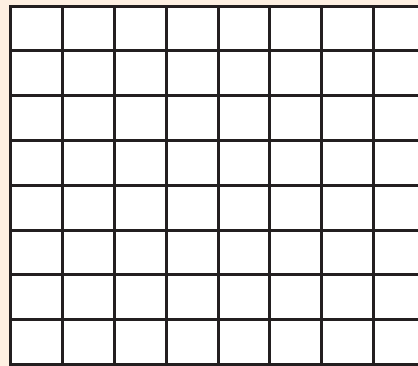
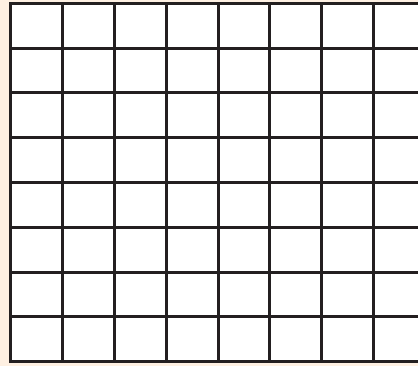
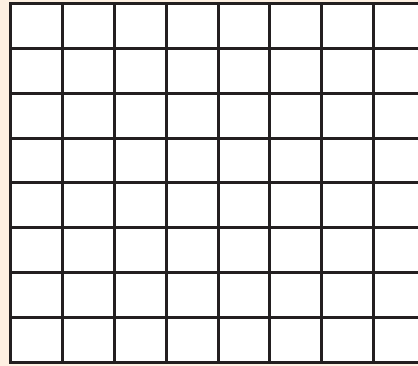
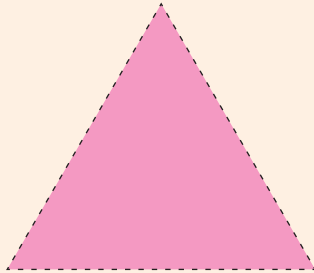
Itani tshifanyiso ni tshi shumisa zwivhumbeo. Ro thoma tshifanyiso tshinwe na tshinwe nga zwivhumbeo zwihili.

		
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Olani zwivhumbeo kha giridi.  
Shumisani zwiḱwea zwiḱuku uri zwi ni thuse.



Teacher:  
Sign:  
Date:





# Zwivhumbeo zwa 2-D – vhurumbutswititi na vhurumbu ha zwipulumbu



Tevhedzelani zwivhumbeo zwi tevhelaho.

 thiraiengele	 zwitendeledzi	 zwikwea
 zwitendeledzi	 thiraiengele	 zwikwea



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

 vhurumbu ha zwipulumbu <input type="checkbox"/> vhurumbutswititi <input type="checkbox"/>	 vhurumbu ha zwipulumbu <input type="checkbox"/> vhurumbutswititi <input type="checkbox"/>	 vhurumbu ha zwipulumbu <input type="checkbox"/> vhurumbutswititi <input type="checkbox"/>
--	--	--



Olani tshivhumbeo nga:

vhurumbutswititi	vhurumbu ha zwipulumbu
------------------	------------------------



Vhalani tshivhalo tsha zwitendeledzi, zwickwea na thiraiengele.


Zwitendeledzi

Zwickwea

Thiraiengele



Wanani tshifanyiso kha magazini tsha tshithu tshi re na:

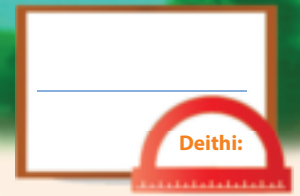
vhurumbu ha zwipulumbu

vhurumbutswititi



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

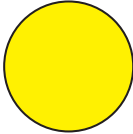
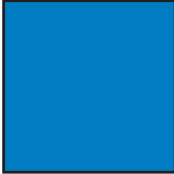
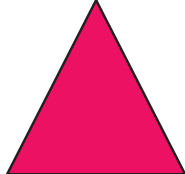

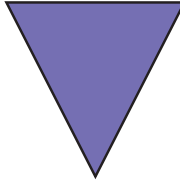
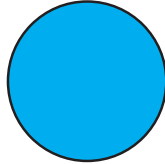




# Zwiñwe zwivhumbeo zwa 2-D



Bulani madzina a zwivhumbeo zwi tevhelaho:

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

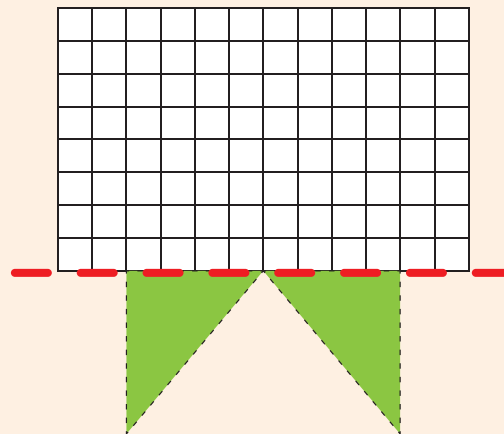
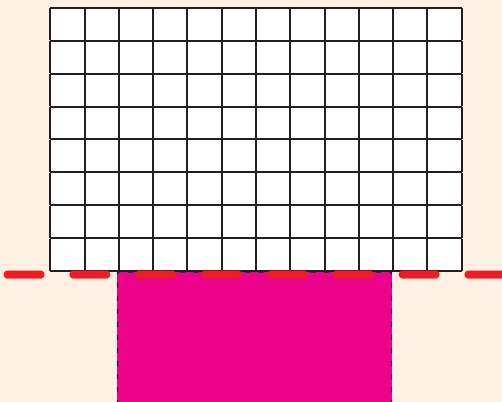
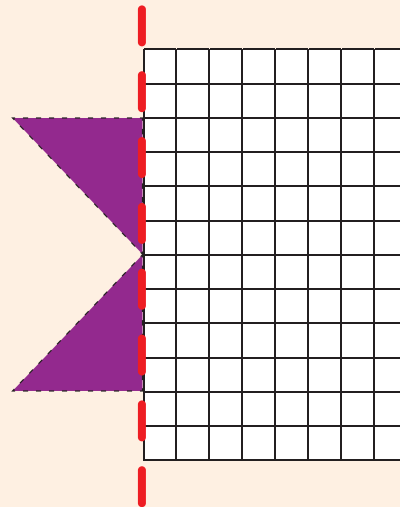
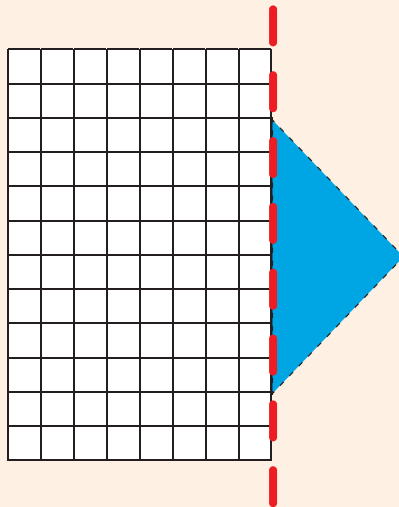
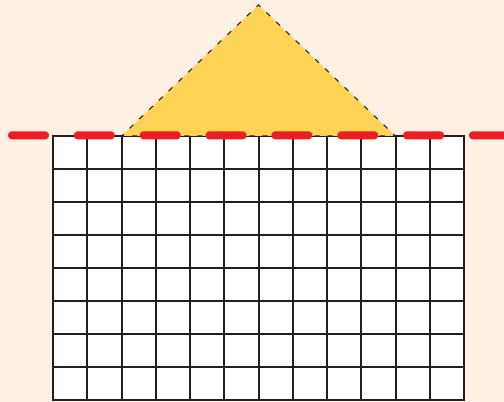
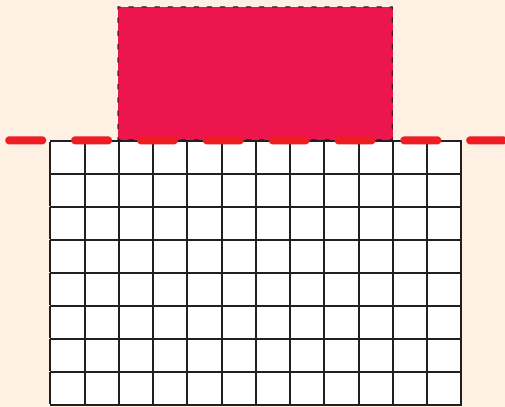


Olani tshifanyiso tshañu inwi muñe ni tshi shumisa zwitendeledzi, thiraiengele na zwikwea fhedzi.





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

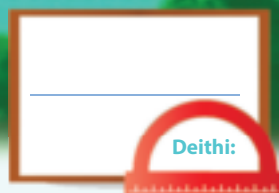


Zwothe zwi na  na .



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





# Zwigwada zwa ṭhanu u swika kha 20

Themo ya 4



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

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 yaṅu.

 $5 + 5 + 5 =$	<input type="text"/>
 $5 + 5 + 5 + 5 =$	<input type="text"/>
 $5 + 5 + 5 + 5 + 5 =$	<input type="text"/>
 $5 + 5 + 5 + 5 + 5 + 5 =$	<input type="text"/>





Ñwalani fhungombalo la zwi tevhelaho:



Fhindulani mbudziso.



Ni kona u vhona khoini nngana?

I ñwaleni sa fhungombalo:



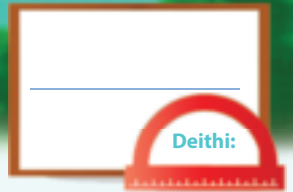
Ñwalani nomboro dzi no khou t̃ahela.

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



Teacher:  
Sign:  
Date:





# Thanu – ndovhololo ya mutanganyo wa u swika kha 20



Itani zwigwada zwa zwiṭanuzwiṭanu ni ṅwale fhungombalo.



Olani zwigwada zwa zwiḽhumbeo ni tshi sumbedza mafhungombalo.


$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\phantom{00}}$$


$$\boxed{5} + \boxed{5} + \boxed{5} + \boxed{5} = \boxed{\phantom{00}}$$




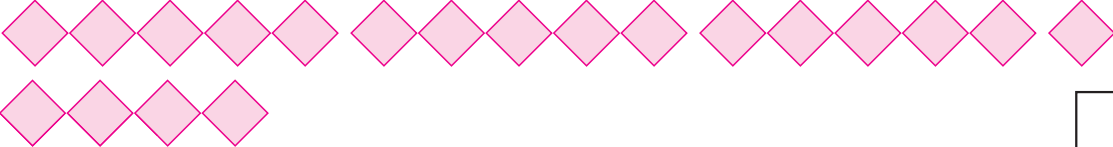


Nwalani fhungombalo la zwi tevhelaho.


  
 $5 + 5 = \square$









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

1	2	3	4	5	6	7	8	9	10
11	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.

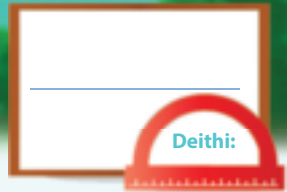


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





# U kovhekana u swika kha 20

Themo ya 4



Kovhelani khonani ṭhanu maḷegere.  
Muḷwe na muḷwe wavho u ḍo wana maḷegere mangana?

Muḷwe na muḷwe wavho u ḍo wana maḷegere a

Muḷwe na muḷwe wavho u ḍo wana maḷegere a

Muḷwe na muḷwe wavho u ḍo wana maḷegere a

Muḷwe na muḷwe wavho u ḍo wana maḷegere a

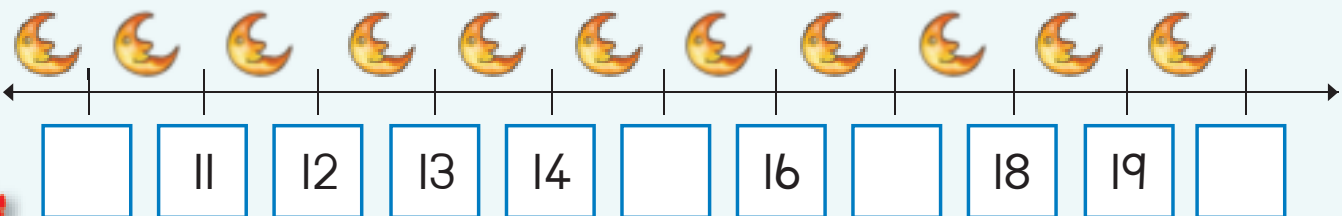


Khaḷarani nyandiso dza ṭhanu.

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



Ḽwalani nomboro dzi no khou ṭahela.





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

Kovhelani vhana vhaṭanu zwivhaleli zwa 10.

Ho sala zwivhaleli zwa .

Kovhelani vhana vhaṭanu zwivhaleli zwa 6.

Ho sala zwivhaleli zwa .

Kovhelani vhana vhaṭanu zwivhaleli zwa 11.

Ho sala zwivhaleli zwa .

Kovhelani vhana vhaṭanu zwivhaleli zwa 16.

Ho sala zwivhaleli zwa .



Nwalani fhungombalo la zwi tevhelaho:



$5 + 5 =$









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





## Phetheni dza nomboro – t̃hanu u swika kha 100



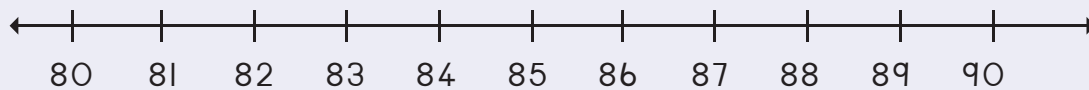
Fhedzisani phetheni nga u khalara nyandiso dza t̃hanu.

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

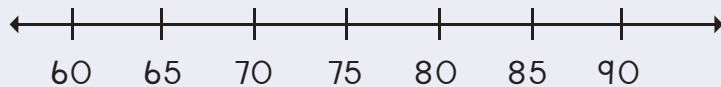


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

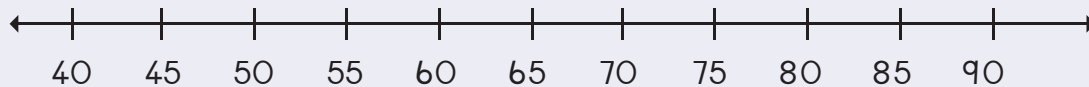
86, 88, 90



70, 75, 80



55, 60, 65, 70

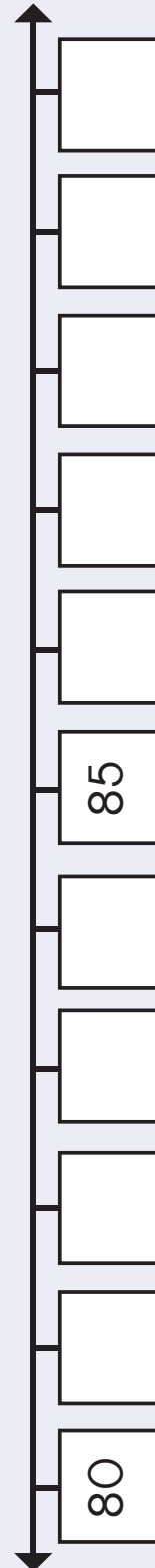
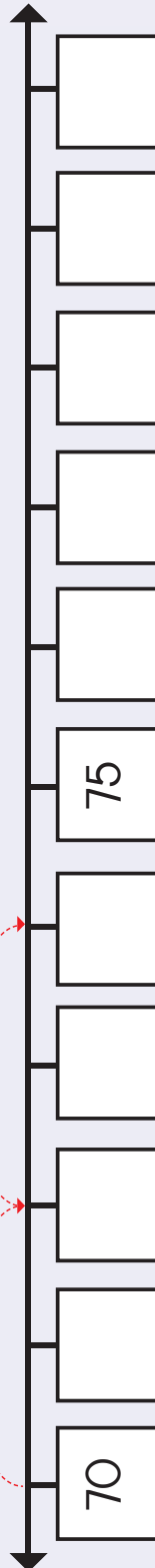
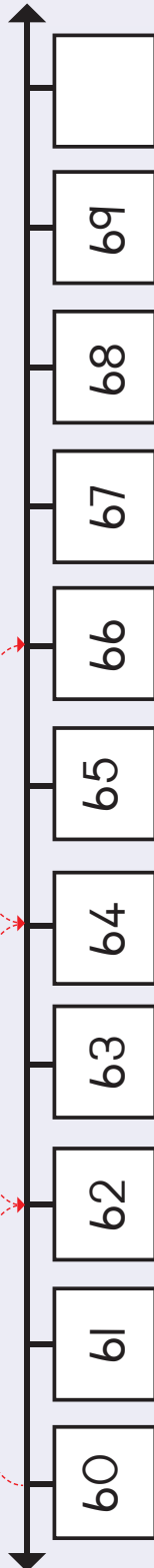


Shumisani watshi kha u sumbedza u vhala miminete nga miṭanumiṭanu.

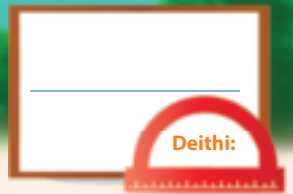




Gerani nomboro dzi no khou t̄ahela kha Tshigeriwa 2  
ni dzi vhee kha mutalombalo.  
Ni ite na u fhedzisa dzihupu.



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



# Vhuimo na mbonalo

Themo ya 4



Livhanyani phanda na murahu ha tshipuka tshiñwe na tshiñwe.

Phanda



Murahu



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

↑	→	←	↑	↓
↓	↑	↓	→	←
←	→	←	↑	↓
→	↑	←	↓	→





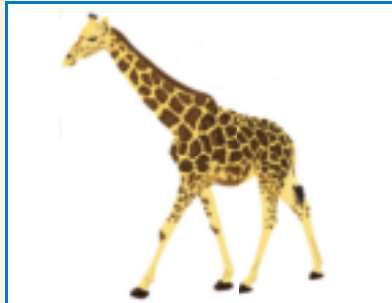
Khalarani mbonalo yone.



Mbonalo ya nga nt̄ha

Mbonalo ya nga matungo

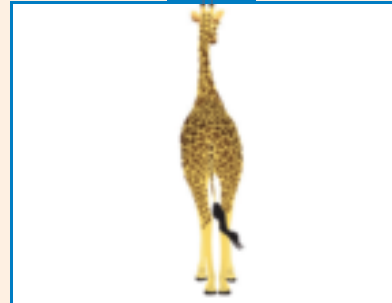
Mbonalo ya nga phanda



Mbonalo ya nga nt̄ha

Mbonalo ya nga matungo

Mbonalo ya nga phanda



Mbonalo ya nga murahu

Mbonalo ya nga matungo

Mbonalo ya nga phanda



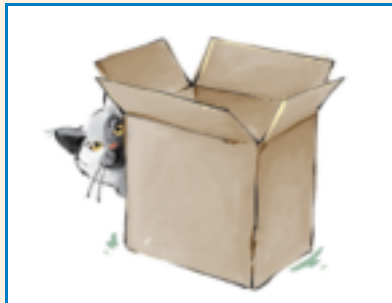
Tshimange tshi ngafhi?  
Khalarani phindulo i re yone.



Nga murahu

Nga phanda

Tsini na



Nga murahu

Nga phanda

Tsini na



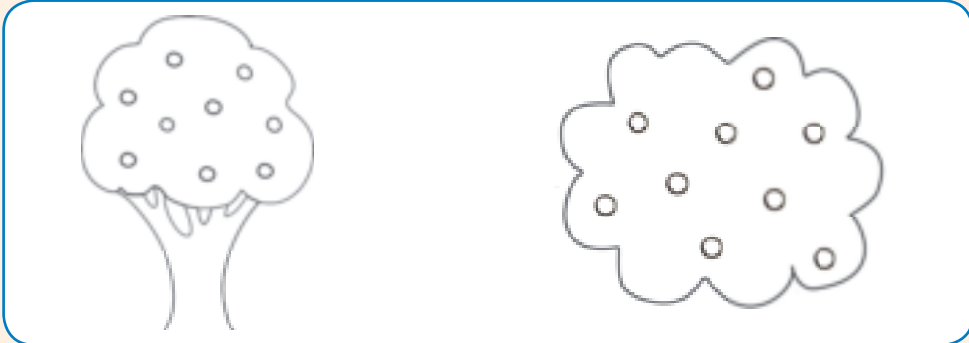
Nga murahu

Nga phanda

Tsini na

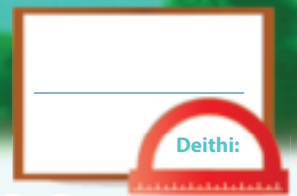


Lavhelesani zwifanyiso  
zwa muri.  
Khalarani mbonalo ya  
nga nt̄ha.



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





# Zwigwada zwa mbili u swika kha 20

Themo ya 4



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

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

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

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



Itani zwigwada zwa zwivhili. Olani zwigwada.






Fhindulani mbudziso.



Hu na zwiṅoni zwingana?

Ni nga ita zwigwada zwingana zwa zwi vhili?

Nwalani fhungombalo.



Itani zwi tendeledzi ni tshi vhumba zwi tevhelaho.

Zwigwada zwa 7 zwa 2

Zwigwada zwa 8 zwa 2

Zwigwada zwa 9 zwa 2

Zwigwada zwa 10 zwa 2



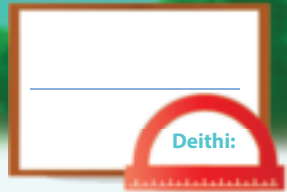
Nwalani fhungombalo la zwi tevhelaho.






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



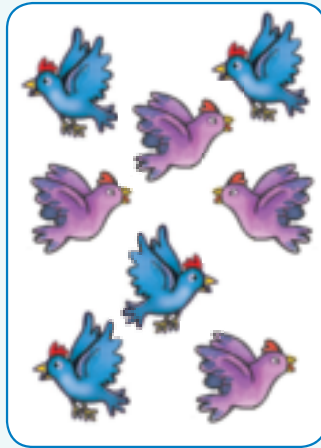


# Mbilimbili – ndovhololo ya mutanganyo u swika kha 20



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





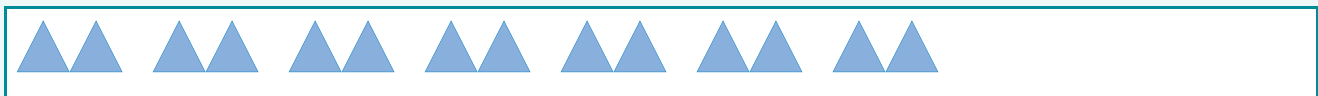






Olani zwivhumbeo zwa zwi tevhelaho:

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



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

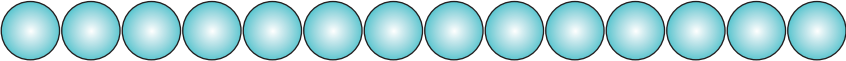
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

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

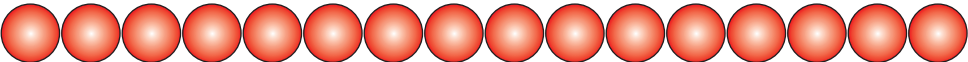


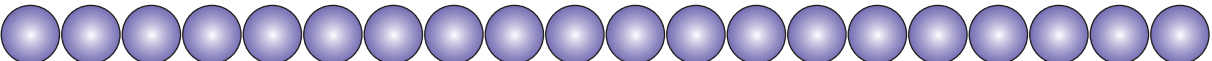



Nwalani fhungombalo la zwi tevhelaho:



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









Khalarani nyandiso dza mbili.

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



Ndi na phakethe dza 6 dzi re na malegere a 2 kha inwe na inwe.  
Ndi na malegere mangana? Olani tshifanyiso ni nwale fhungombalo.

Ndi na malegere a .



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





# Phetheni dza nomboro – mbili u swika kha 100

Themo ya 4



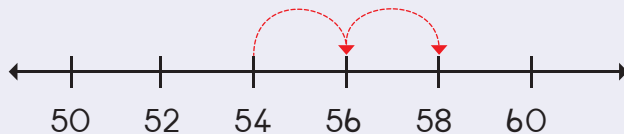
Fhedzisani phetheni nga u khalara nomboro dzone.

61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

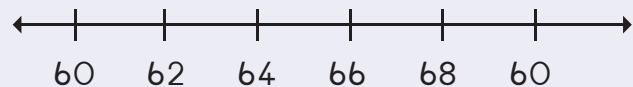


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

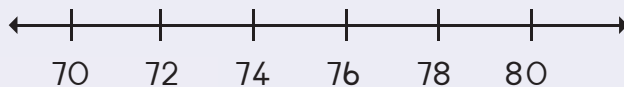
54, 56, 58



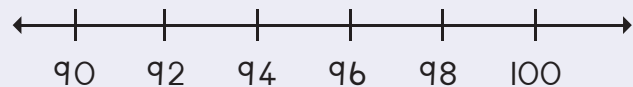
64, 66, 68



74, 76, 78



94, 96, 98

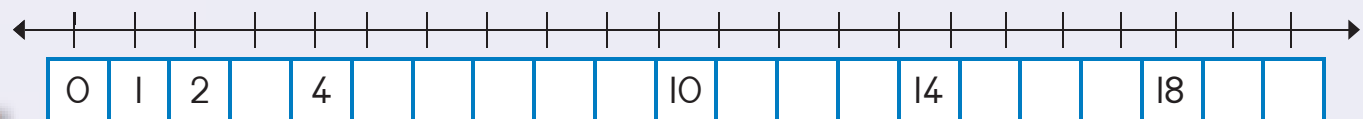


Nwalani nomboro dzi no khou tshela. Khalarani phetheni: 2, 4...

I		3				7			10
II						17			20



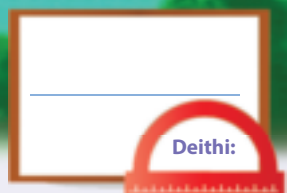
Fhedzisani mutalombalo.



0 1 2 3 4 5 6 7 8 9 10



120



# Phetheni dza nomboro – mbili u swika kha 100

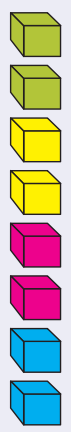
Themo ya 4



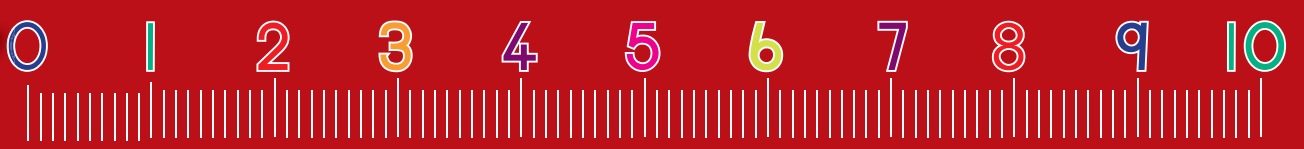
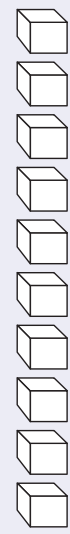
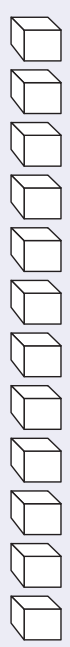
Ni a kona u vhana phetheni ya zwivhilizwihili?



Khalarani zwibuloko ni tshi sumbedza zwigwada zwa zwivhilizwihili. Vhalani uri hu na zwigwada zwingana.

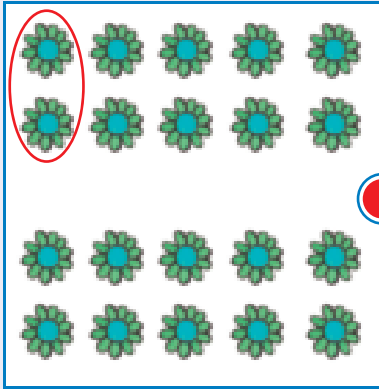


4

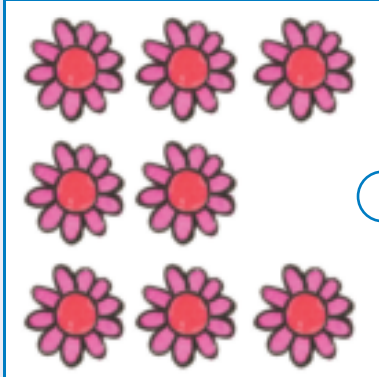




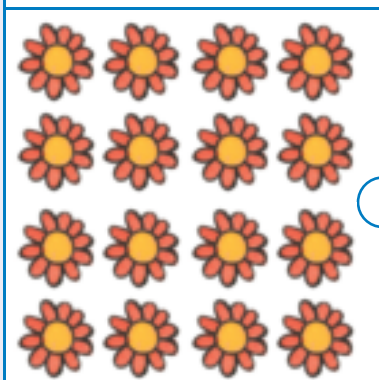
Livhanyani zwigwada zwa zwivhilizwivhili na fhungombalo nge na tala mutalo.



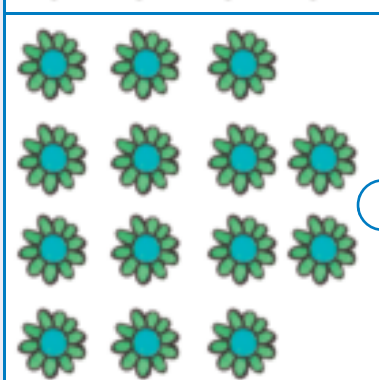
$$2 + 2 + 2 + 2 = 8$$



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



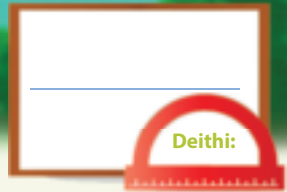
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20$$



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



Teacher:  
Sign:  
Date:

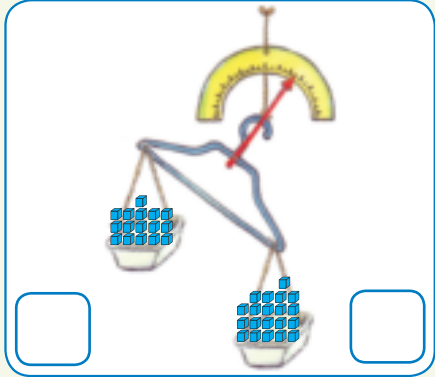
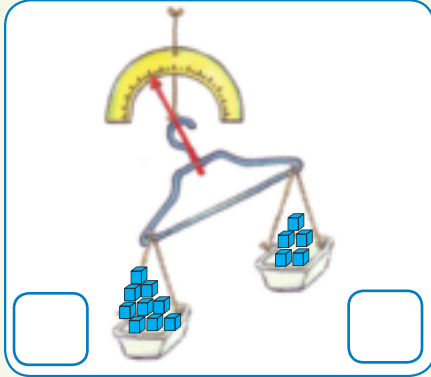
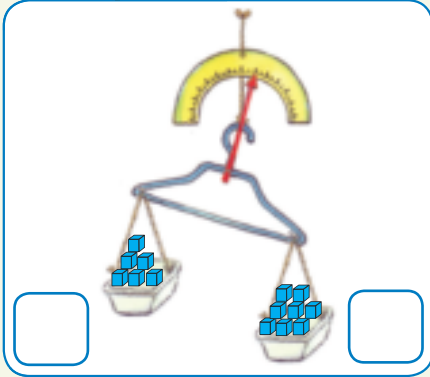


# Tshileme

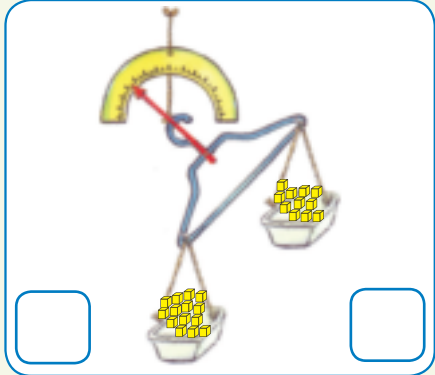
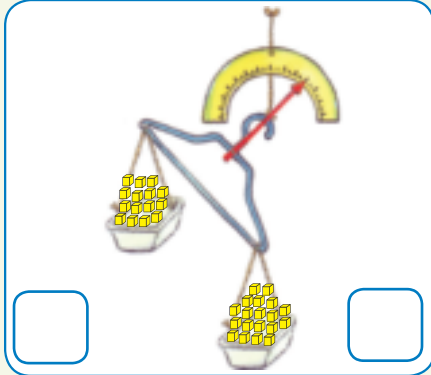
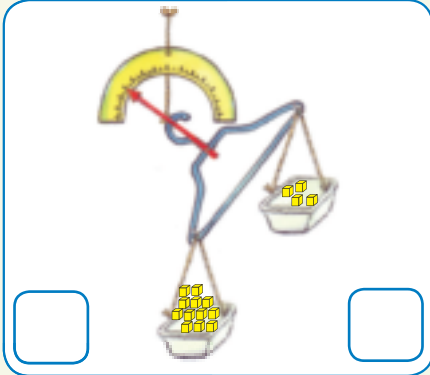
Themo ya 4



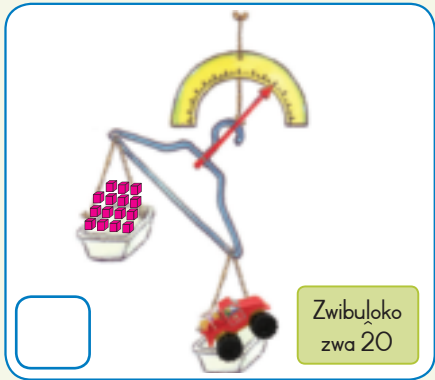
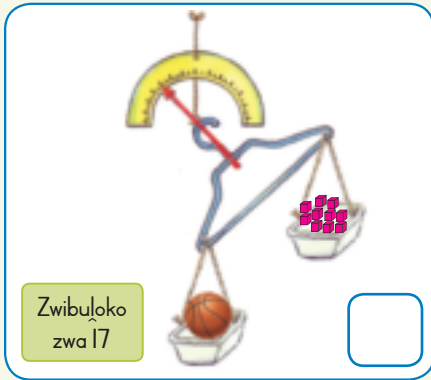
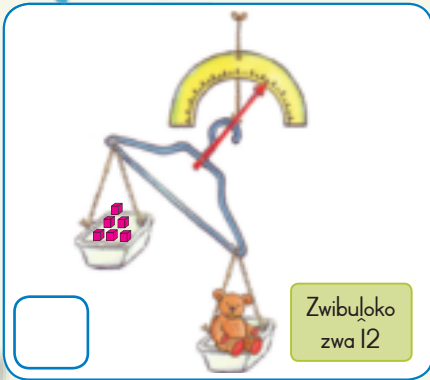
Nwalani uri hu na zwiḅuḅoko zwingana kha tshifaredzi tshinwe na tshinwe. Tangedzelani tshifaredzi tshi no lemelesa.



Nwalani uri hu na zwiḅuḅoko zwingana kha tshifaredzi tshinwe na tshinwe. Tangedzelani tshifaredzi tshi no leluwesa.

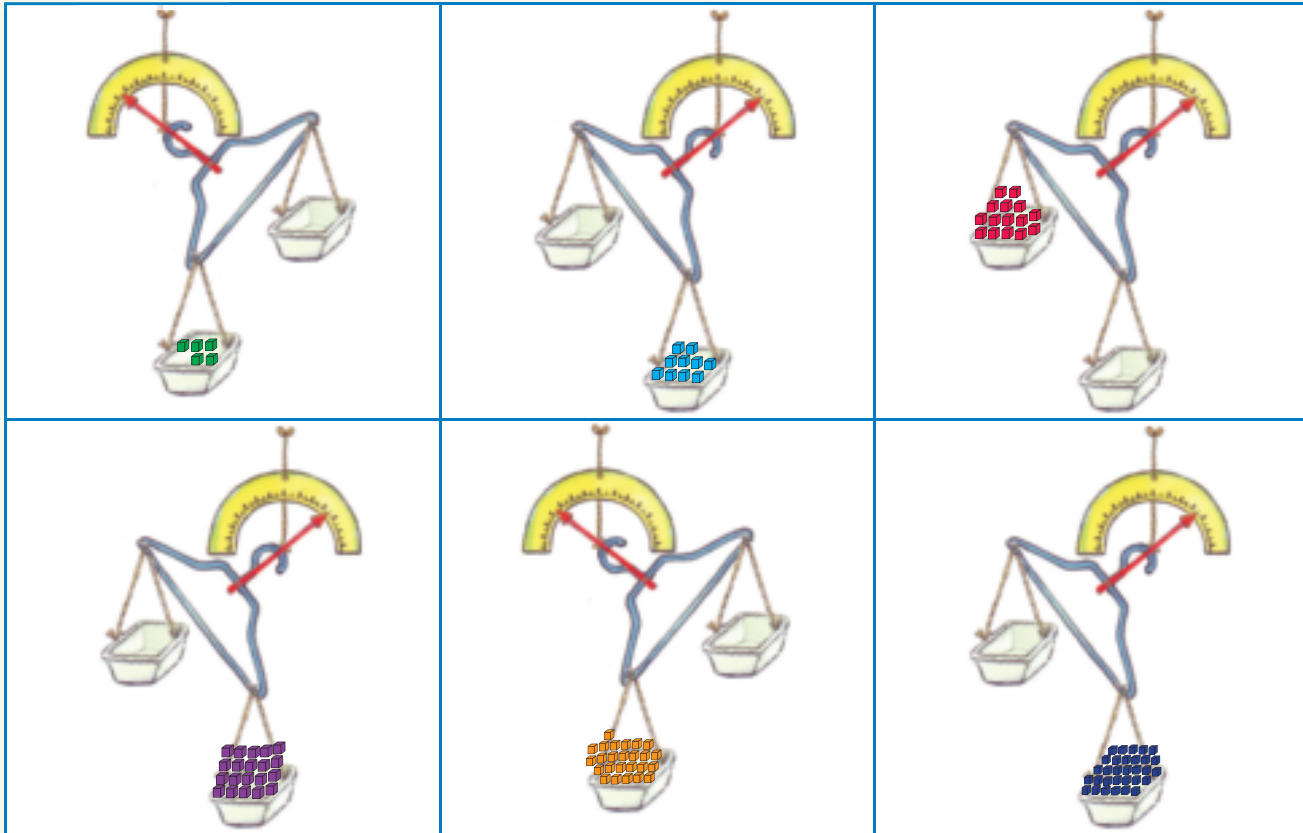


Vhalani uri hu na zwiḅuḅoko zwingana. Ni wane uri hu tḱodea zwiḅuḅoko zwingana zwa u engedza nga nḱha u itela u balantsa thoyi. Ro ni vhudza uri thoyi i lemela zwiḅuḅoko zwingana.





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



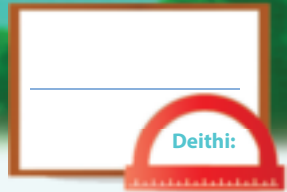
Shumisani zwithu zwa 5 zwi re disikeni yanu. Thomani nga u anganyela uri zwi lemela vhugai ni kole u zwi kala kha tshikalalo kana tshikalotshilinganyisi u itela u vhona arali nyanganyelo yanu i yone.

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



Teacher:  
Sign:  
Date:





# U inga kavhili

Themo ya 4



Fhindulani zwi tevhelaho:

Hu na zwi kwea zwingana?

Hu na zwingana zwino?

Ri ri 12 yo ingwa kavhili ndi 24.

Hu na milenzhe mingana?

Hu na milenzhe mingana zwino?

Ri ri 6 yo ingwa kavhili ndi

Hu na zwikitili zwingana?

Hu na zwikitili zwingana zwino?

Ri ri 10 yo ingwa kavhili ndi

Hu na maḍuvha mangana kha vhege?

S	M	T	W	T	F	S

Hu na maḍuvha mangana kha vhege mbili?

S	M	T	W	T	F	S

Ri ri 7 yo ingwa kavhili ndi

Hu na khirayoni nngana?

Hu na khirayoni nngana zwino?

Ri ri 8 yo ingwa kavhili ndi





Nwalani phindulo.

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



Nwalani phindulo.

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



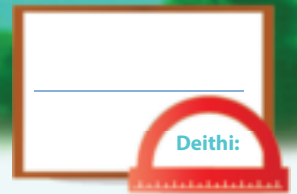
Fhedzisani thebulu.

$9 + 9 + 1 =$ <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:





# U hafula

Themo ya 4



Findulani zwi tevhelaho:

Hu na zwickwea zwingana?

Hu na zwickwea 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 zwickitili zwingana?

Hu na zwickitili zwingana zwino?

Ri hafu ya 20 ndi

Hu na maḍuvha mangana kha vhege mbili?

S	M	T	W	T	F	S	S	M	T	W	T	F	S

Hu na maḍuvha mangana kha vhege nthihi?

S	M	T	W	T	F	S

Ri hafu ya 14 ndi

Hu na khirayoni nngana?

Hu na khirayoni nngana zwino?

Ri hafu ya 16 ndi





Nwalani phindulo.

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



Nwalani phindulo.

Hafu ya <b>ina</b> ndi	mbili
Hafu ya <b>rathi</b> ndi	
Hafu ya <b>mbili</b> ndi	
Hafu ya <b>malo</b> ndi	
Hafu ya <b>fumi</b> 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:

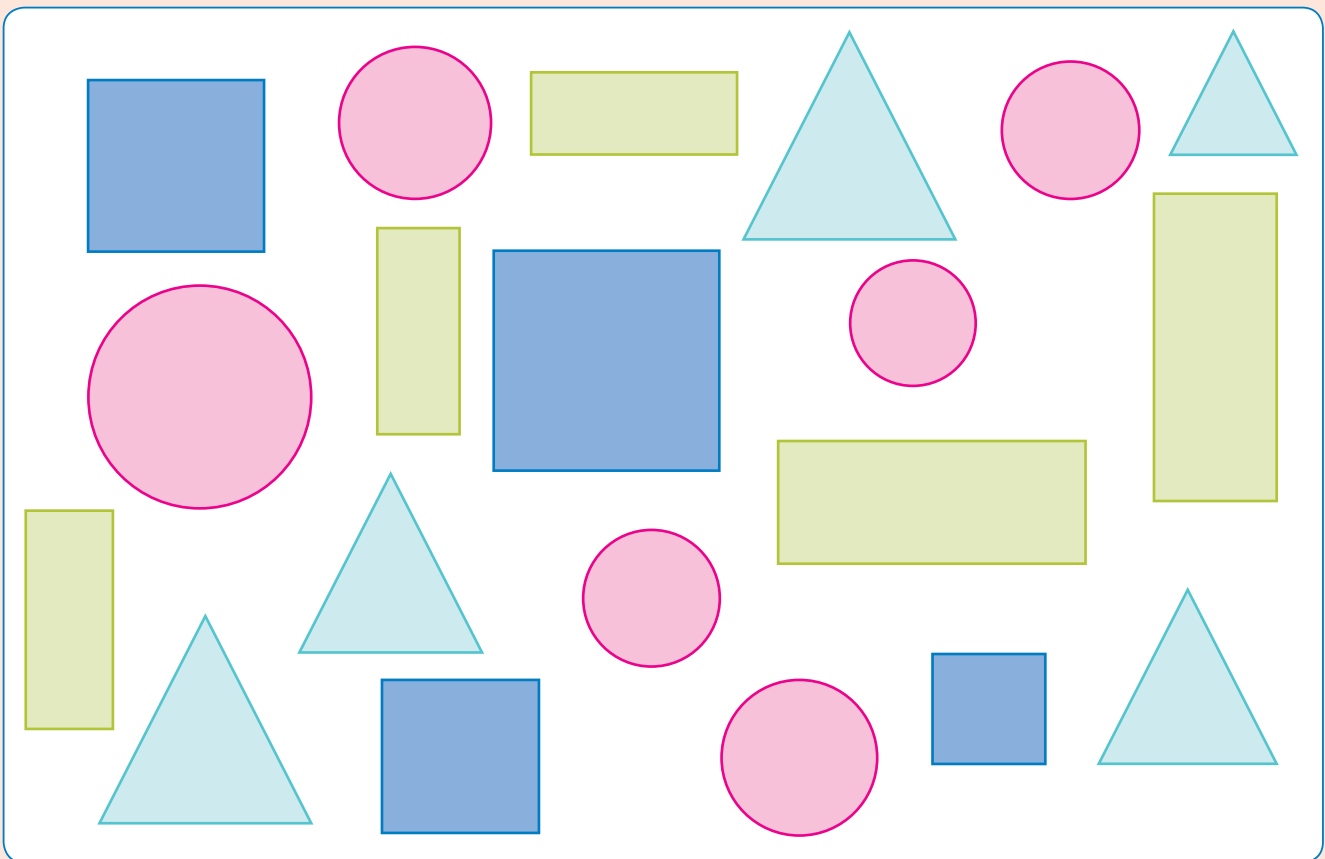




# Data



Vhalani uri hu na zwiwhumbeo zwingana zwo fhambananaho, ni kone u fhindula mbudziso.



1. Hu na zwiqwea zwingana? 

2. Hu na thiraiengele nngana? 

3. Hu na rekithiengele nngana? 

4. Hu na zwiendeledzi zwingana? 





## Data inwe hafhu

Themo ya 4



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



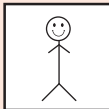
Fhedzisani thebuḽu.

Thoyi	Nomboro (Tshivhalo)
Mipopi	
Maṭiraka	
The dibee	
Roboto	



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

Thoyi dzi re hone

Khii = 

Mipopi	Maṭiraka	Thedibee	Roboto



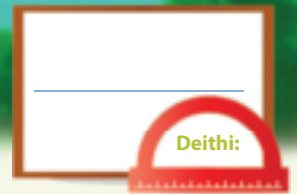
Fhindulani mbudziso. Lavhelesani phikhithogirafu uri i ni thuse.

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



Teacher:  
Sign:  
Date:



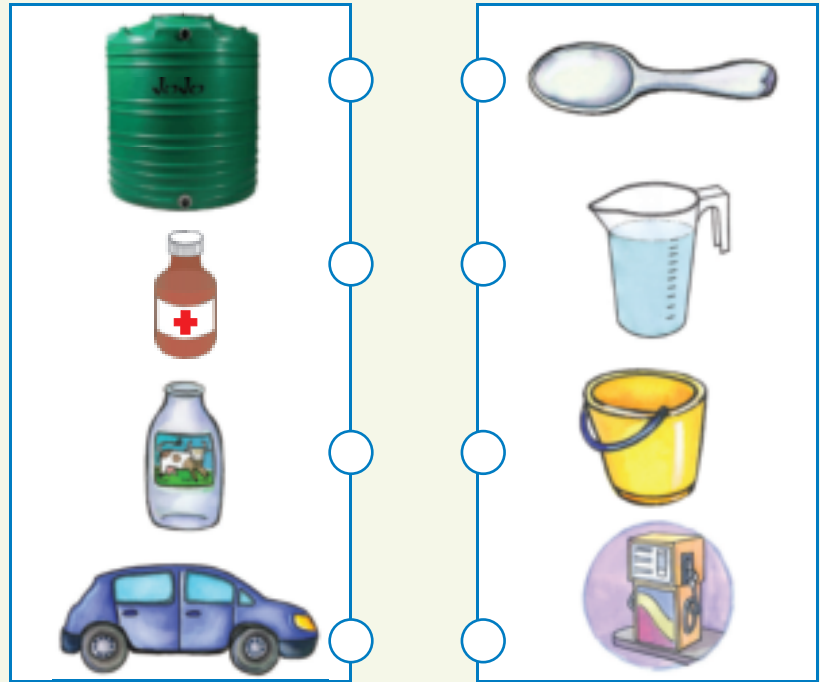


# Khaphasithi (Nḡadzo)

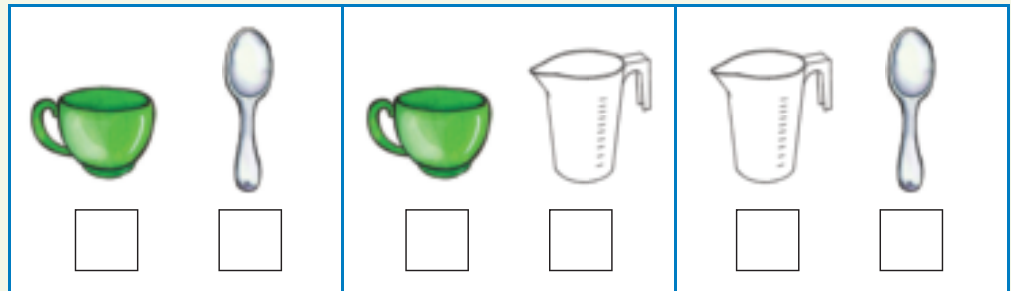
Themo ya 4



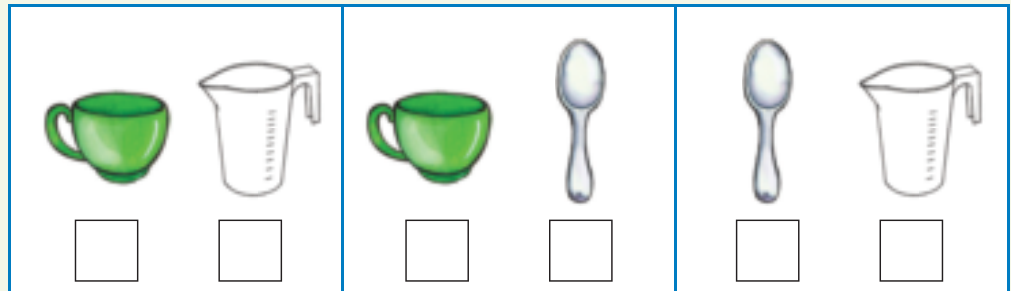
Ri ela zwiludi nga ndilade? Talani mutalo ni tshi livhanya tshithu na tshishumiswa tshone tsha u kala.



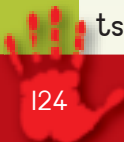
Itani thiki kha tshifaredzi (mudzio) tshi no fara zwiḡukutuku.



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



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





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

--	--	--



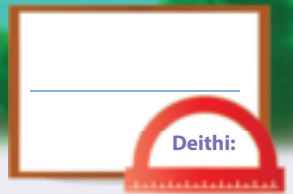
Khalarani tshivhalo tsho tsha zwilud̄i.

 1	+	 2	=	 <input type="text"/>
 2	+	 2	=	 <input type="text"/>
 2	+	 3	=	 <input type="text"/>



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





# Phetheni dza dzhometiri

Themo ya 4



Fhedzisa ni phetheni.

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

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

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

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

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

A	B	B	A	B	B		B	B	A		
---	---	---	---	---	---	--	---	---	---	--	--

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

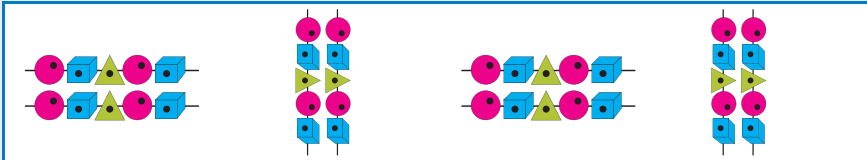
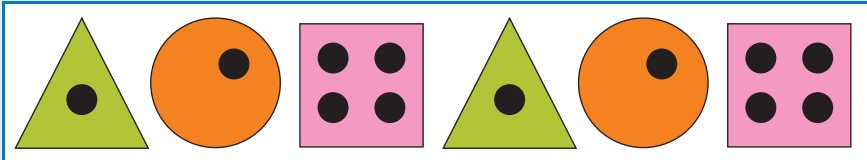
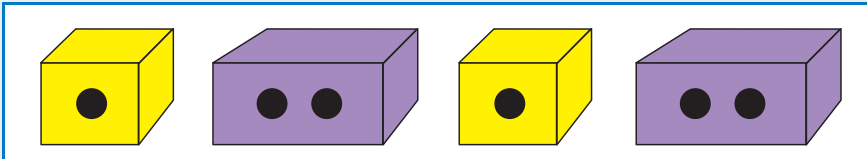
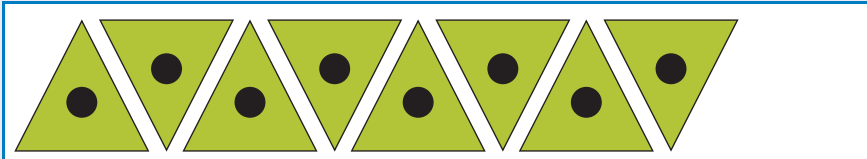
A	D	A	D	A	D			A	D		
---	---	---	---	---	---	--	--	---	---	--	--

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





Engedzani phetheni.

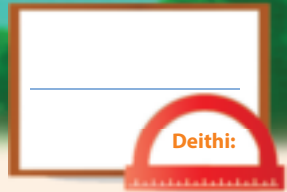


Itani phetheni dza inwi muṅe ni tshi shumisa zwitendeledzi, zwickwea na thiraiengele.



Teacher:  
Sign:  
Date:



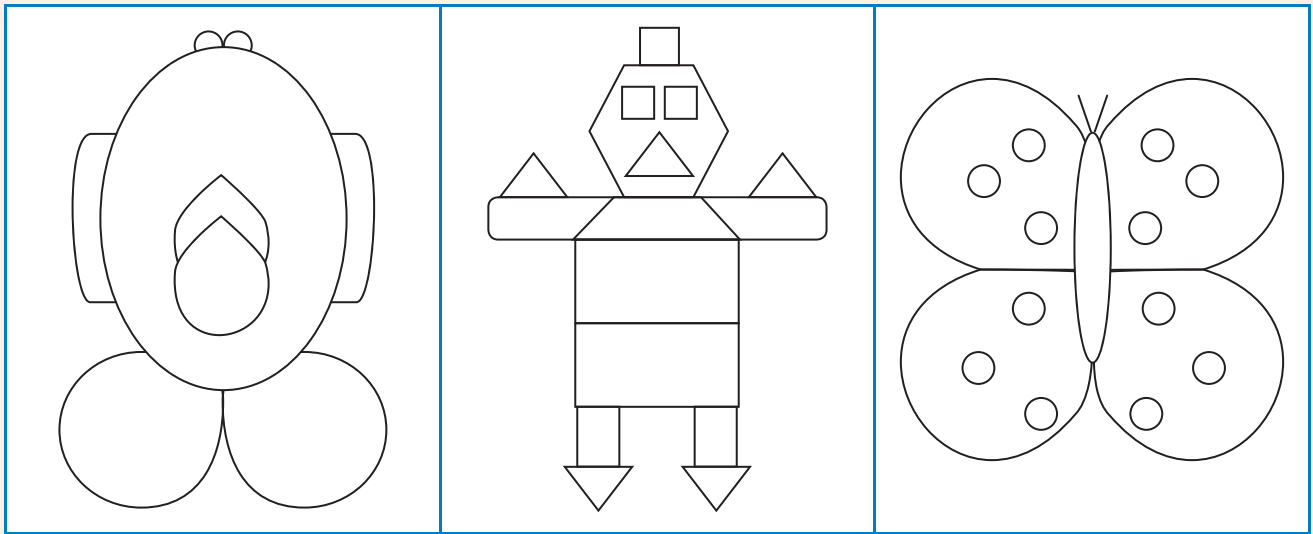


# Ndinganahuvhili

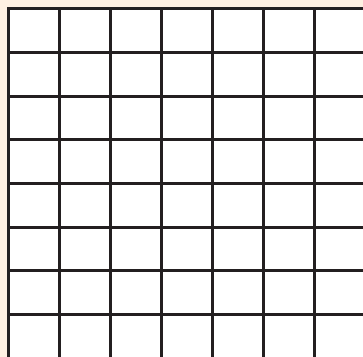
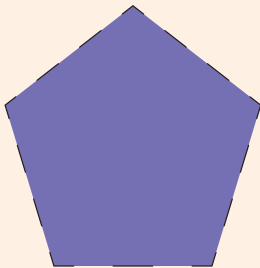
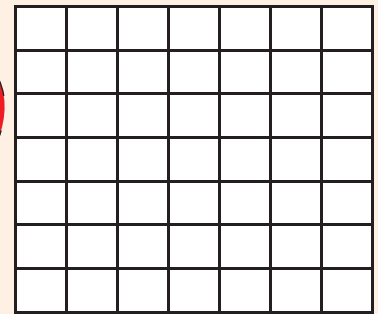
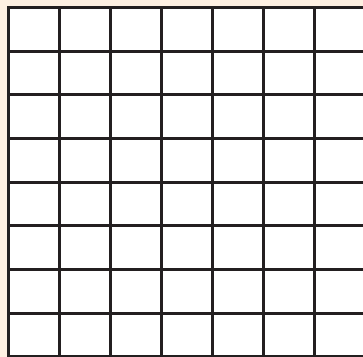
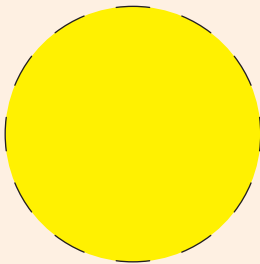
Themo ya 4



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



Kopololani zwivhumbeo, ni kone u tala mutalo wa ndinganahuvhili.





Fhedzisani tshifanyiso nga u ola iḽa inwe hafu kokotolo.




Olani iḽa inwe hafu ya tshivhumbeo.


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



# Notsi



A large white rectangular area with a light blue border, containing horizontal blue lines for writing. A vertical red line is positioned on the left side, creating a margin. The writing area is currently blank.



# Notsi



A large rectangular area with horizontal blue lines for writing, set against a light blue background. A vertical red line is positioned on the left side of the writing area, creating a margin. The writing area is currently blank.

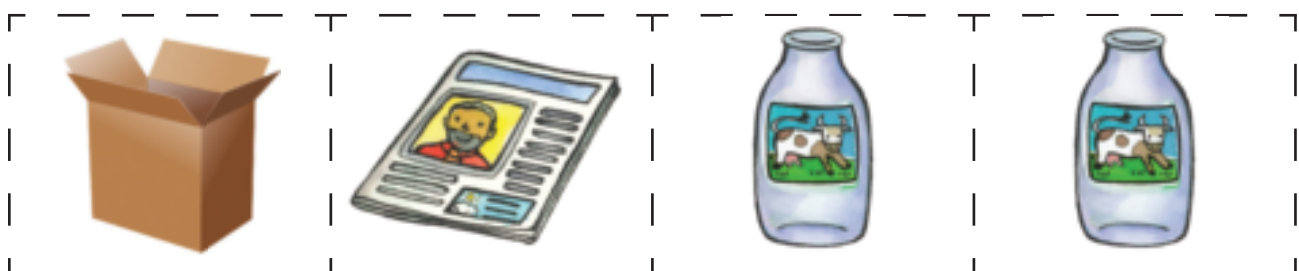
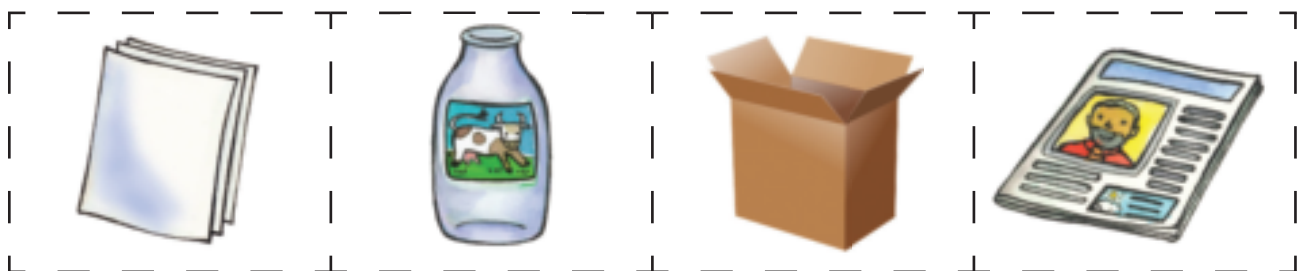
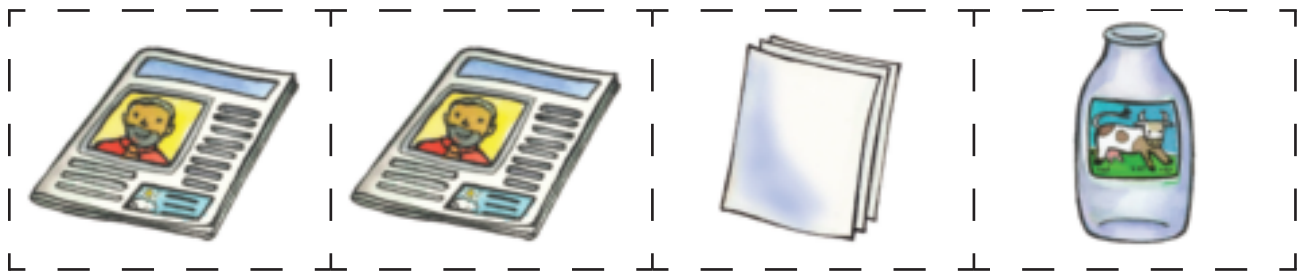
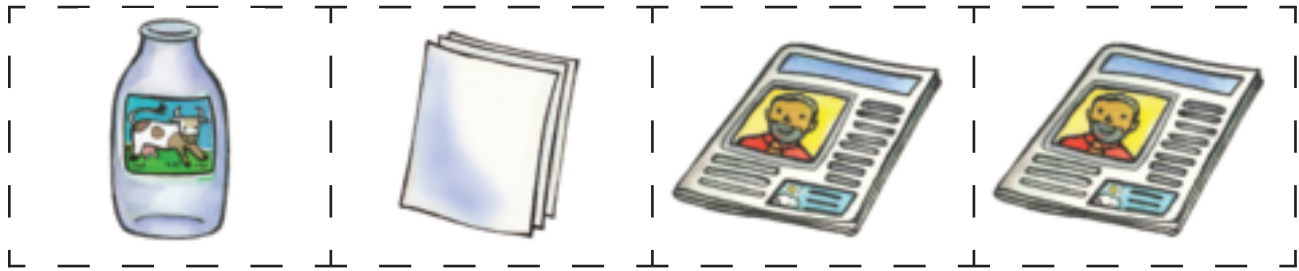
# Notsi



A large white rectangular area for writing, featuring a vertical red margin line on the left and horizontal blue lines for text. The page is otherwise blank.

# Cut-out 1

Worksheet 79





## Cut out cards 2

### Worksheet 83

45	50	40	40	30	35
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### Worksheet 84

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

### Worksheet 93

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

### Worksheet 115

72	78	82	84	86	74	80
76	88	90				

### Worksheet 119

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

