

# U talukanya Mulayotewa (Ndayotewa) wa Riphabuḽiki ya Afrika Tshipembe (1996)

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

Ndi milayo ine ya laya vathu vha ḽino shango uri vha tea u farana nga nḁilaḁe. Mulayotewa wa shango wo itelwa u tsiredza roṯhe ri no khou tshila zwino na vhana vhashu vbane vha kha ḁi ḁo ḁa.

Talukanyani hune ra  
bva hone.

Ri songo dovha  
vhukhaxhi ha  
mulovha.

Mulayotewa washu u ri thusa  
uri ri elekanye nga vhumatshelo  
ha khwiṅe ha roṯhe khatihi na  
u vhu fhaṯa.

Riṅe, vathu vha Afrika Tshipembe;

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

Ri ṯhonifha havho vhe vha tambulela vhulamukanyi na mbofholowo kha shango ḽashu;

Ri ṯhonifha havho vhe vha shuma vha tshi itela u fhaṯa na u bveledzisa  
shango ḽashu; na

U tenda uri Afrika Tshipembe ndi ḽa vhoṯhe vbane vha dzula khaḽo, vho  
vhofhekanywaho vha vha huthihi naho vha sa fani.

Zwenezwo, nga kha vhaimeleli vho khethiwaho zwavhuḁi, ri khou ṯanganedza ino  
Ndayotewa sa wone Mulayo Muhulusa wa Riphabuḽiki uri u—

Fhelise khethululo ya tshifhinga tsho fhelaho na u thoma tshitshavha tshine tsho  
ḁisendeka kha ndeme dza demokirasi, vhulamukanyi ha matshilisano na pfanelo  
dza vhuthu;

Fhaṯe mitheo kha demokirasi na tshitshavha tshi re khagala hune  
muvhuso wo ḁisendeka kha lufuno lwa vathu nahone vhadzulapo  
vho tsiredzwa nga mulayo nga nḁila I ḽinganaho;

Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhoṯhe na u vhofoholola vhukoni ha  
muthu muṯwe na muṯwe; na

Fhaṯa mbumbano na demokirasi zwa Afrika Tshipembe uri ḽi kone u vha fhethu  
ho teaho sa muvhuso wo ḁiimisaho kha muṯa wa tshaka.

Shumisani pfanelo dzaṅu sa  
mudzulapo wa Afrika Tshipembe ni  
dovhe ni vhe na vhuḁifhinduleli ha u  
tsiredza pfanelo dza vhaṅwe.

Divhani Mulayotibe Wa  
Pfanelo na Mulayotibe  
Wa Vhuḁifhinduleli.

Mudzimu tsiredza vathu vhashu.

Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.

God seḽn Suid-Afrika. God bless South Africa.

Hosi katekisa Afrika.

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TERMS 3 & 4

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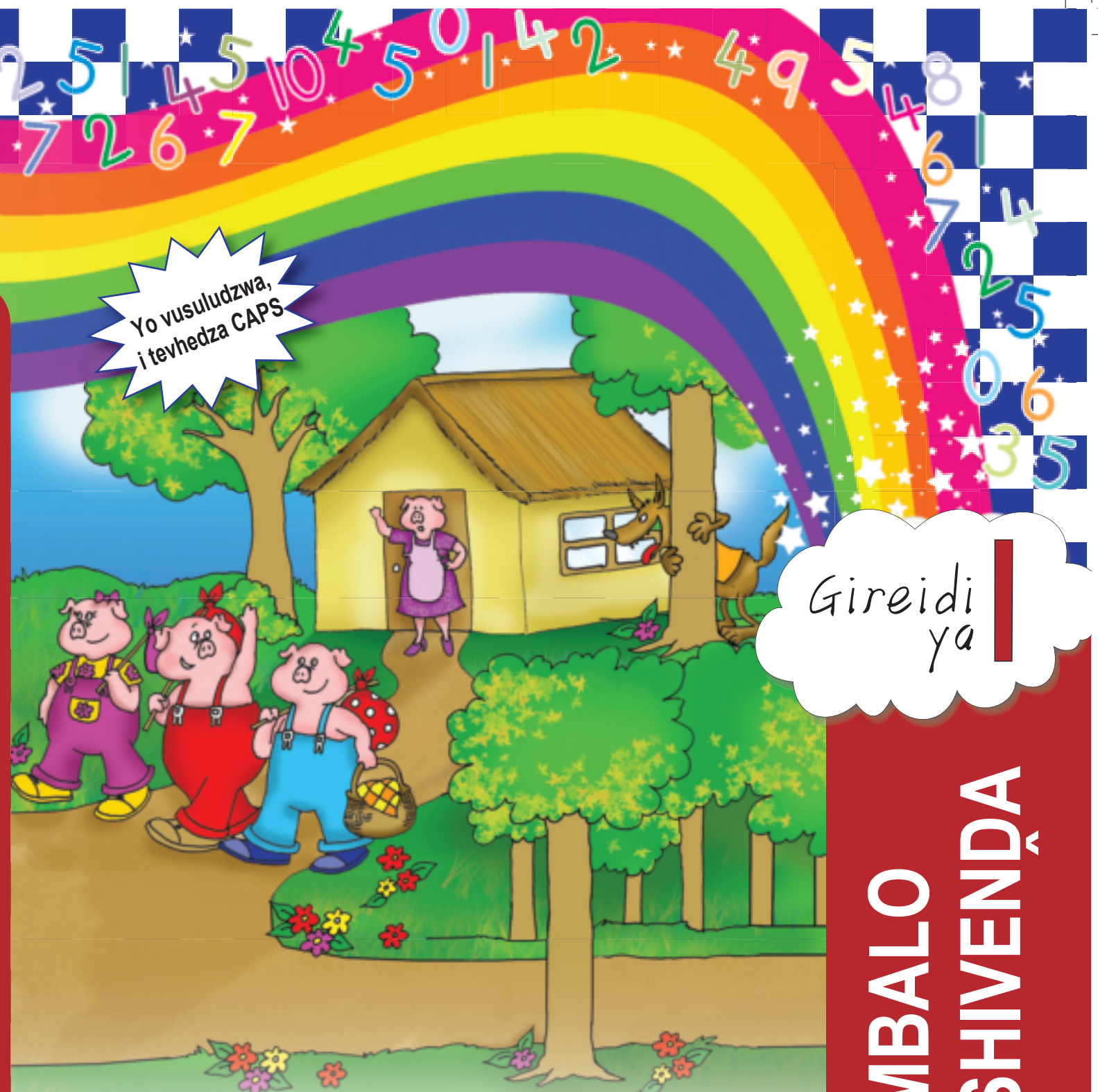
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4

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Vho Siviwe Gwarube  
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 Siviwe Gwarube 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 kharikhuḽamu 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 TSHIVENḌA

Bugu iyi ndi ya:



TSHIVENḌA

Bugu ya

2

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

## Pfesemani nomboro II

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.



thihi

1 1

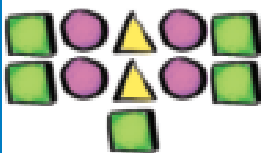
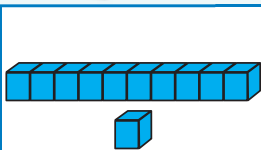


mbili

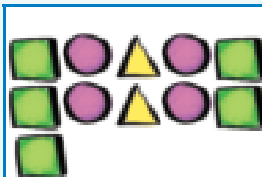
2 2



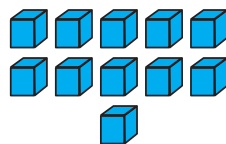
Livhanyani zwifanyiso.

10  
1

11



11

10  
1

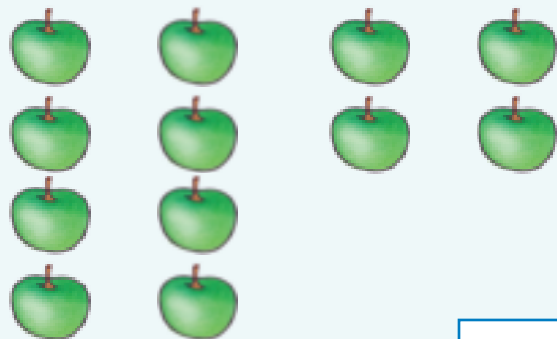
Tangedzelani zwithu.

Tangedzelani malegere a 10 fhedzi.



Ho sala malegere mangana?

Tangedzelani maapula a 10 fhedzi.



Ho sala maapula mangana?





Tovhedzelani nomboro.

|           |  |  |  |
|-----------|--|--|--|
|           |  |  |  |
| fumithihi |  |  |  |
|           |  |  |  |



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 |



Olani zwithu zwa II.



Nwalani nomboro dzi no khou tḥahela.

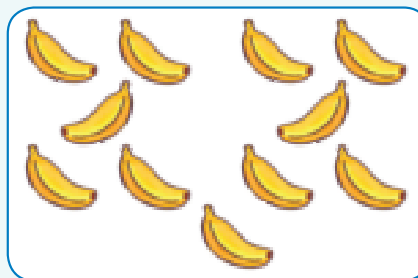
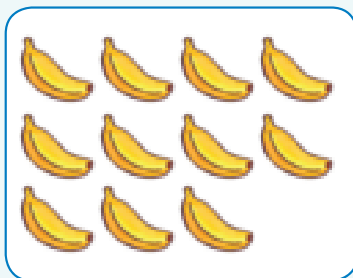
1

2

4



Vhalani zwithu.



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

|    |           |           |
|----|-----------|-----------|
|    |           | fumithihi |
|    |           | fumithihi |
| II |           |           |
|    | fumithihi |           |



Ndi nomboro ifhio i re tḥukhu kha II nga thihi?

Ndi nomboro ifhio i re khulwane kha II nga thihi?

Teacher: Sign: Date:



II 12 13 14 15 16 17 18 19 20



66

Deithi:

# Pfesesani nomboro 12

Themo ya 3

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.



raru

3 3

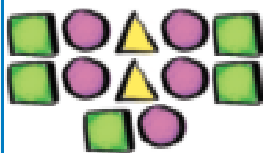
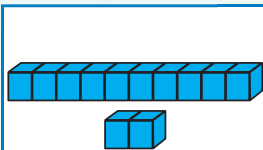


ina

4 4



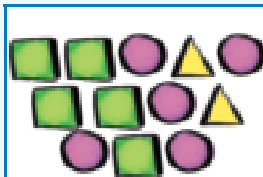
Livhanyani zwifanyiso.



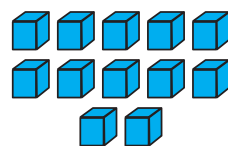
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2

12



12



10

2



Tangedzelani zwithu.

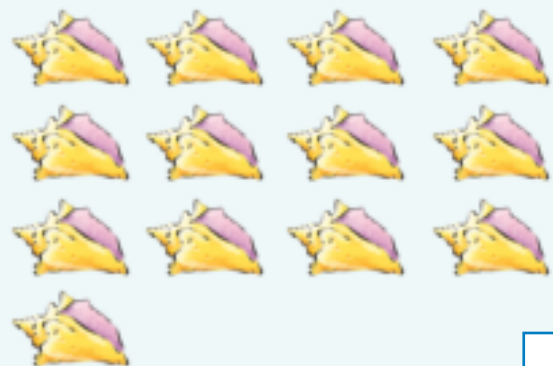
Tangedzelani zwienda zwa 10 fhedzi.



Ho sala zwienda zwingana?



Tangedzelani khambalwanzhe dza 12 fhedzi.



Ho sala khambalwanzhe nngana?



0

1

2

3

4

5

6

7

8

9

10





Tovhedzelani nomboro.

12 12 12 12

fumimbili

12 12 12 12



Khoḽomo inwe na  
inwe i tea u vha na  
tḽhanganyelo ya 12.  
Nwalani nomboro dzi  
no khou tḽhela.

|    |    |    |
|----|----|----|
|    | 7  | 6  |
| 4  |    | 4  |
| 3  | 2  |    |
| 12 | 12 | 12 |



Olani zwithu zwa 12.



Nwalani nomboro dzi no  
khou tḽhela.

|   |  |   |    |  |  |
|---|--|---|----|--|--|
| 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 tḽhukhu  
kha 12 nga thihi?

Ndi nomboro ifhio i re  
khulwane kha 12 nga thihi?



11 12 13 14 15 16 17 18 19 20



## Pfesetsani nomboro 13

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.



ṭhanu

5 5

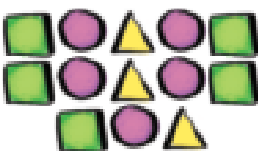
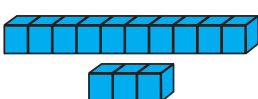


rathi

6 6



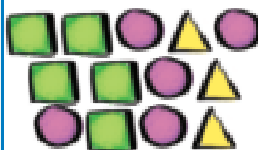
Livhanyani zwifanyiso.



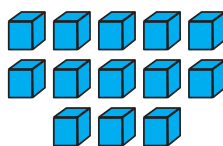
10

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  
t̃hanganyelo ya 13.  
Nwalani nomboro dzi  
no khou t̃ahela.

|    |    |    |
|----|----|----|
| 1  | 2  | 6  |
| 1  |    |    |
|    | 3  | 2  |
| 13 | 13 | 13 |



Olani zwithu zwa 13.

Zwino zwi oleni nga ndila inwevho.

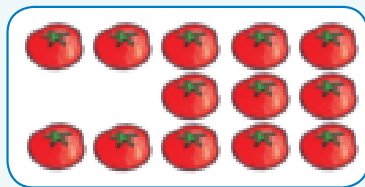


Nwalani nomboro  
dzi no khou t̃ahela.

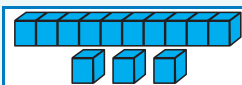
1012



Vhalani zwithu.



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

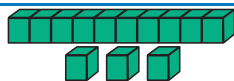


fumiraru

13

fumiraru

13



fumiraru



Ndi nomboro ifhio i re t̃hukhu  
kha 13 nga thihi?

Ndi nomboro ifhio i re  
khulwane kha 13 nga thihi?



Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20





## Pfesetsani nomboro 14

Mvusuludzo:

Itani ndowendowe ya u n'wala nomboro.



sumbe

7 7

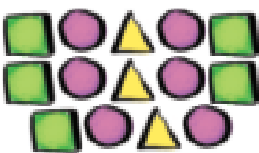
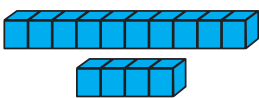


malo

8 8



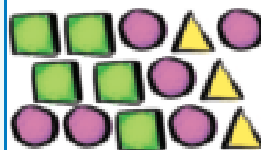
Livhanyani zwifanyiso.



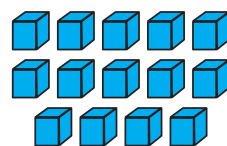
10

4

14



14



10

4



Tangedzelani zwithu.

Tangedzelani zwisusu zwa 10 f'hedzi.



Ho sala zwisusu zwingana?

Tangedzelani rokho dza 14 f'hedzi.



Ho sala rokho nngana?





Tovhedzelani nomboro.

14 14 14 14

fumiina

14 14 14 14



Kholomo inwe na  
inwe i tea u vha na  
tshanganyelo ya 14.  
Nwalani nomboro dzi  
no khou tshela.

|    |    |    |
|----|----|----|
| 1  |    | 2  |
|    | 5  | 1  |
| 3  | 2  |    |
| 14 | 14 | 14 |

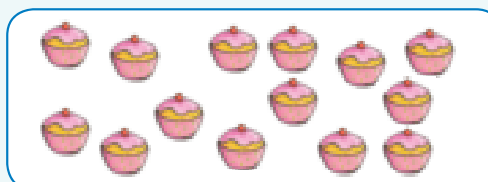
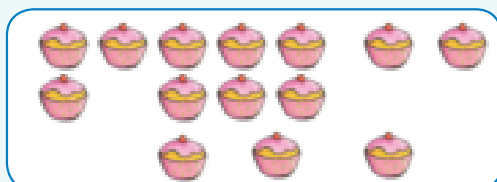


Olani zwithu zwa 14.

Zwino zwi oleni nga ndila inwevho.



Vhalani zwithu.



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 tshukhu  
kha 14 nga thihi?

Ndi nomboro ifhio i re  
khulwane kha 14 nga thihi?

Teacher:  
Sign:  
Date:

11 12 13 14 15 16 17 18 19 20



# Pfesesani nomboro 15

Mvusuludzo:

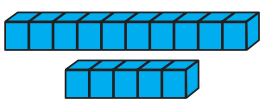
Itani ndowendowe ya u n'wala nomboro.


tahe
9 9


fumi
10 10



Livhanyani zwifanyiso.





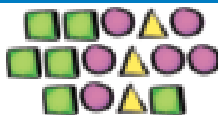
10
5

15

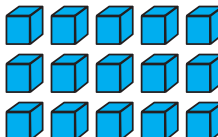




Tangedzelani zwithu.



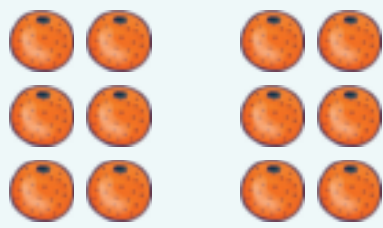
15





10
5

Tangedzelani maswiri a 10 fhedzi.



Ho sala maswiri mangana?

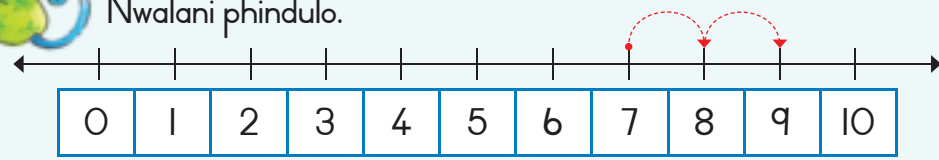
Tangedzelani n'aledzi dza 15 fhedzi.



Ho sala n'aledzi nngana?



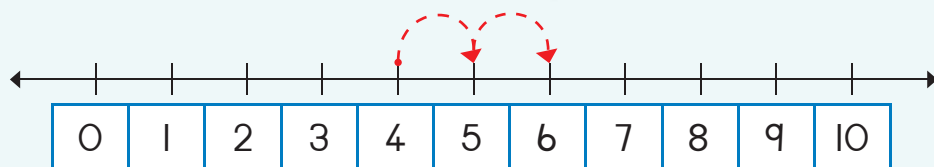
N'walani phindulo.



$7 + 2 =$







$$4 + 2 =$$



Tovhedzelani nomboro.

15 15 15 15

fumiṭanu

15 15 15 15



Olani zwithu zwa 15.

Zwino i oleni nga ndila inwevho.

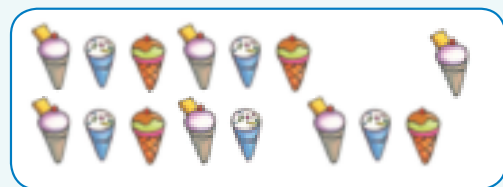


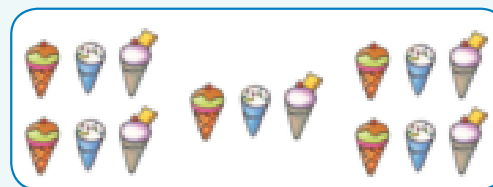
Nwalani nomboro dzi no  
khou ṭahela.



Vhalani zwithu.

11 12 13 15 15 13 12







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 thihi?

Ndi nomboro ifhio i re  
khulwane kha 15 nga thihi?

Teacher:  
Sign:  
Date:

11 12 13 14 15 16 17 18 19 20



# Mutanganyo u swika kha 20

## – U isa phanda

Mvusuludzo:

Itani ndowendowe ya u n'wala dzinambalo.

6

rathi



Lavhelesani zwifanyiso ni n'wale f'hungombalo la tshifanyiso tshinwe na tshinwe.

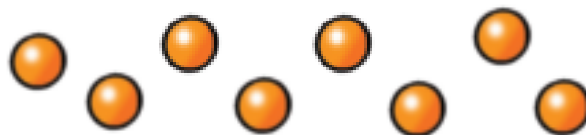
Lisa u na m'legere a 3. Mandla u na m'legere a 5. Vha na m'legere mangana o tangana othe?



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?

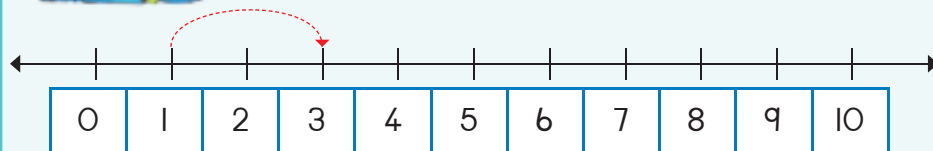


Kha ri vhale ri tshi ya murahu:

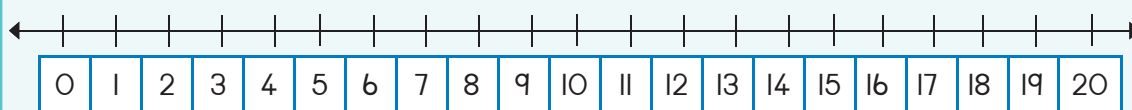
|                      |     |                      |   |                      |   |
|----------------------|-----|----------------------|---|----------------------|---|
| 8                    | ... | 7                    | 6 | 5                    | 4 |
| <input type="text"/> | -   | <input type="text"/>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



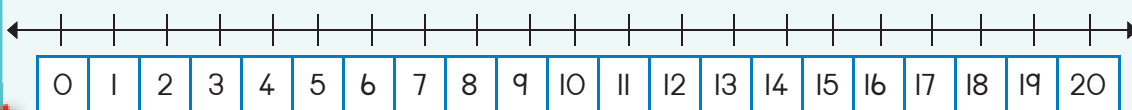
N'walani phindulo.



$$1 + 2 = \boxed{\phantom{00}}$$



$$13 + 2 = \boxed{\phantom{00}}$$

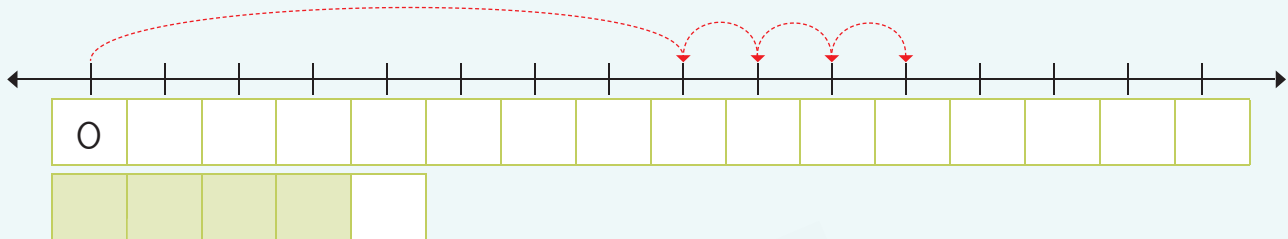
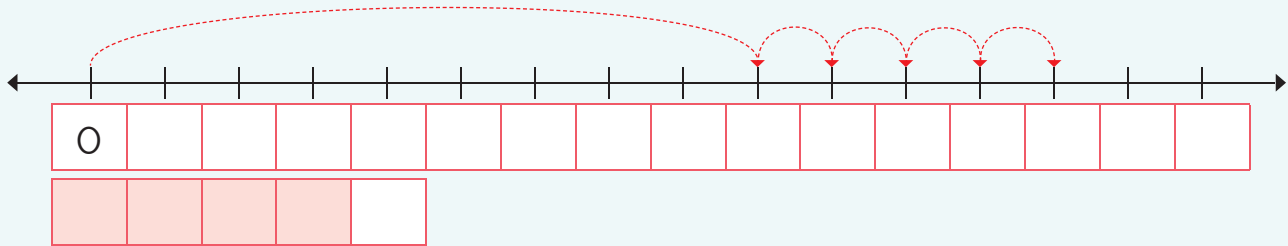
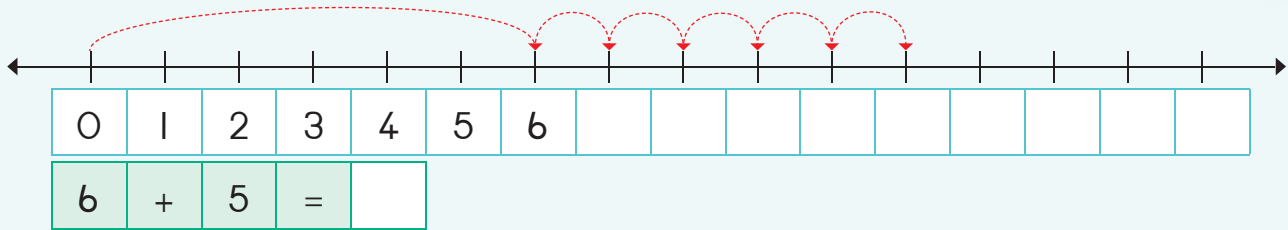


$$15 + 2 = \boxed{\phantom{00}}$$





Ñwalani nomboro kha mutalombalo ni kone u ñwala fhungombalo la nomboro inwe na inwe.



Vhalelani nga 2.

|   |   |
|---|---|
| 3 | 5 |
| 4 |   |
| 2 |   |



|   |  |
|---|--|
| 7 |  |
| 8 |  |
| 6 |  |



Ñwalani nomboro.

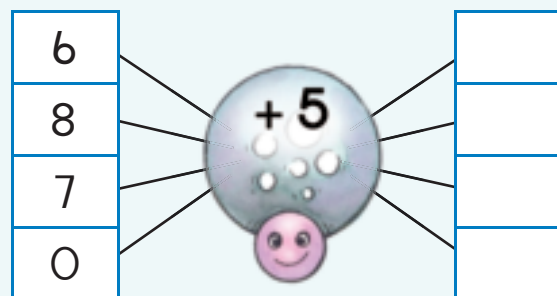
Ndi na minwaha ya 7. Ndi do vha ndi na minwaha mingana nga murahu ha minwaha ya 5?

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| 7 |  |  |  |  |  |
|---|--|--|--|--|--|

Ndi do vha ndi minwaha ya \_\_\_\_\_.



Thusani buvhi u fhedzisa mbalo.



|          |
|----------|
| Teacher: |
| Sign:    |
| Date:    |





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

Mvusuludzo:

Itani ndowendowe ya u riwala dzinambalo.

7

sumbe



Nwalani phindulo.

$3 + 3 = \square$



$0 + 5 = \square$



$3 + 2 + 1 = \square$



Khalarani ni tshi sumbedza zwi tevhelaho.

$3 + 9$



$4 + 8$



$5 + 7$



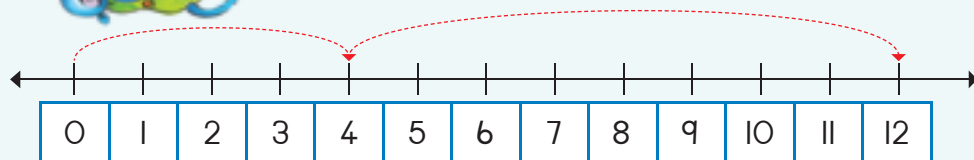
$6 + 6$



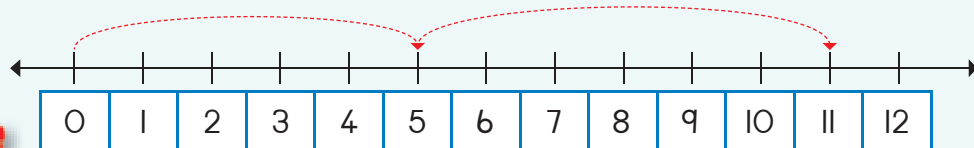
$7 + 5$



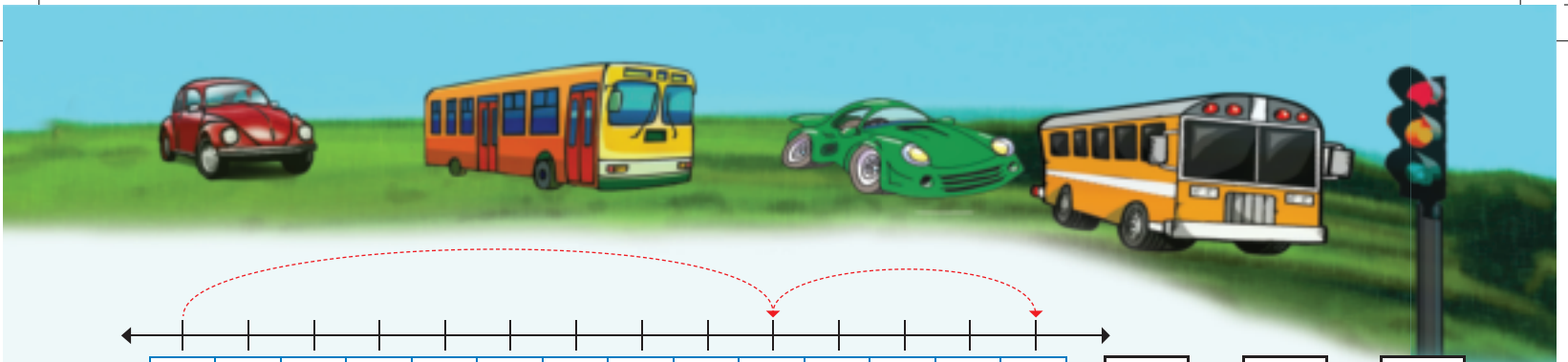
Nwalani mbalo ya:



$\square + \square = \square$



$\square + \square = \square$

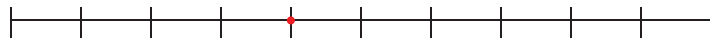


0 1 2 3 4 5 6 7 8 9 10 11 12 13

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

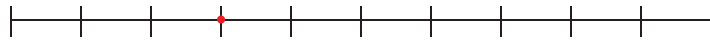


Fhedzisani mutalombalo ni n'wale phindulo.



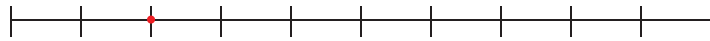
0 1 2 3 4 5 6 7 8 9 10

$$4 + 5 + 1 = \square$$



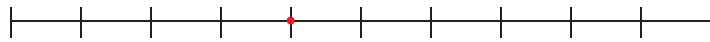
0 1 2 3 4 5 6 7 8 9 10

$$3 + 3 + 2 = \square$$



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 ṭangana yo ṭhe?

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

Ndo wana maluvha a 9 a u fha mudededzi washu. Khonani yanga a wana a 6. Ri na maluvha mangana o ṭangana o ṭhe?

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

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20



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

Mvusuludzo:

Itani ndowendowe ya u riwala dzinambalo.

8

malo

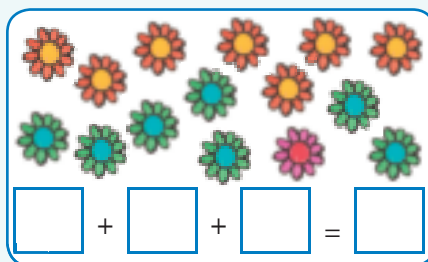
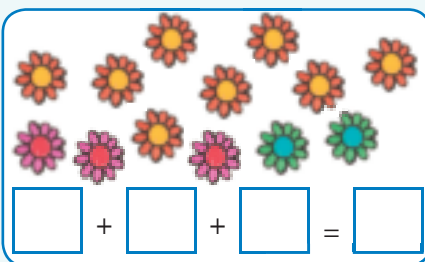
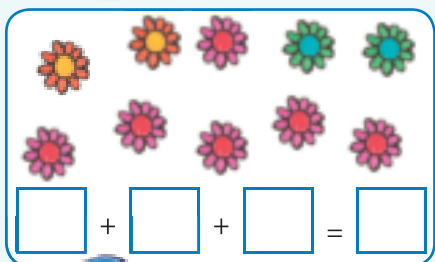


Nwalani phindulo.

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



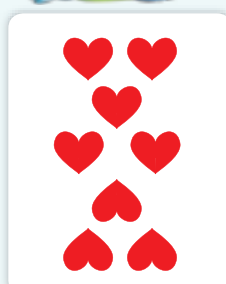
Shumisani maluvha a mivhala yo fhambananaho kha u ita mafhungombalo a inwi mune.



Thusani buvhi u fhedzisa mbalo.



Hu na mbilu nngana?



Nwalani mbalo yanu.

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





Livhanyani phere dza nomboro ni tshi sika nomboro dzi tevhelaho.

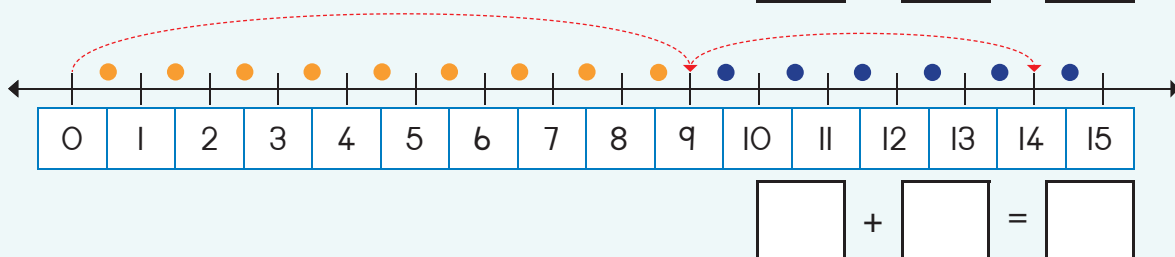
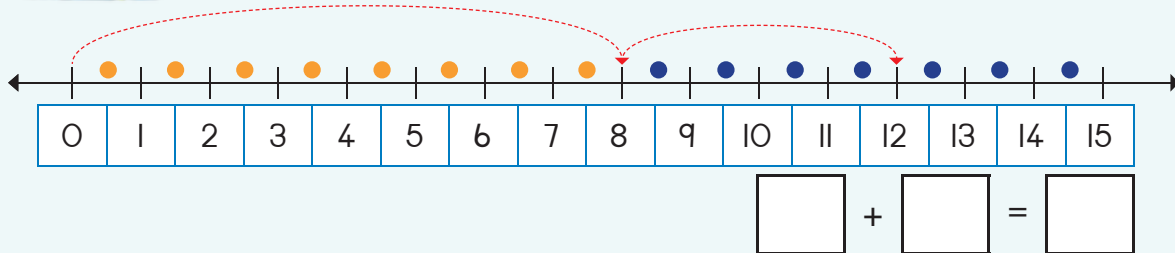
|    |    |   |
|----|----|---|
| 7  | 13 | 5 |
| 8  |    | 4 |
| 9  |    | 6 |
| 10 |    | 2 |
| 11 |    | 3 |

|   |    |   |
|---|----|---|
| 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



11 12 13 14 15 16 17 18 19 20



# Mutanganyo na mutuso – u fhaṭa na u padukanya

Mvusuludzo:

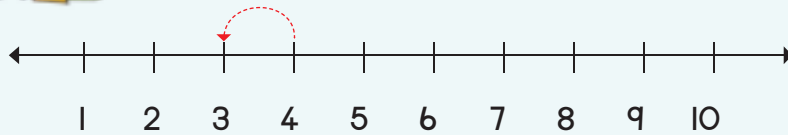
Itani ndowendowe ya u n̄wala dzinambalo.

9

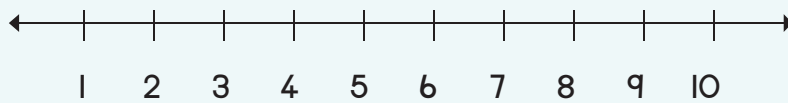
tohe



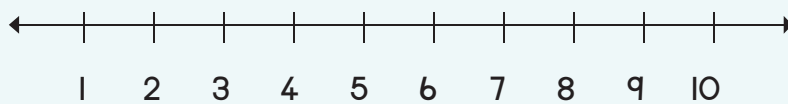
N̄walani phindulo.



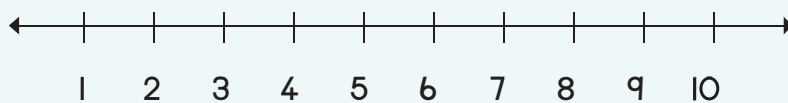
$4 - 1 = \square$



$5 - 3 = \square$



$4 - 2 = \square$



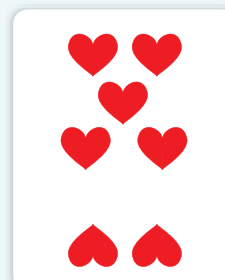
$5 - 2 = \square$



Thusani buvhi u fhedzisa mbalo.



Hu na mbilu nngana?



N̄walani mbalo yan̄u.

$\square + \square = \square$



Rekanyani zwi tevhelaho.

$$\begin{array}{l} 7 + 4 = \square \\ 7 + 4 + 1 = \square \\ 10 + 1 = \square \end{array}$$

$$\begin{array}{l} 6 + 6 = \square \\ 6 + \square + \square = \square \\ 10 + \square = \square \end{array}$$

$$\begin{array}{l} 13 - 6 = \square \\ 13 - 3 + 3 = \square \\ 10 - 3 = \square \end{array}$$

$$\begin{array}{l} 12 - 8 = \square \\ \square - \square + \square = \square \\ 10 - 3 = \square \end{array}$$



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:

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

$$14 - 5 = \square$$

Ri nga kha di i sumbedza sa:

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

Mvusuludzo:

Itani ndowendowe ya u nwala dzinambalo.

10

furni

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

11 12 13 14 15 16 17 18 19 20



## Vhulapfu (vhuntzha)



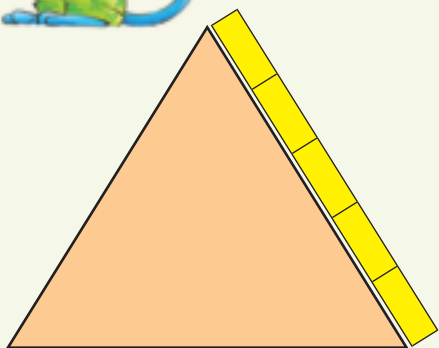
Lavhelesani tshifanyiso ni fhindule mbudziso.

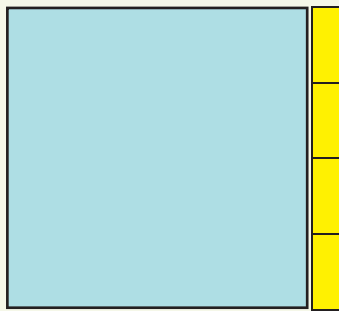
| Jabu | Pam | Nomsa | Ken |
|------|-----|-------|-----|
|      |     |       |     |

|                      |                                    |
|----------------------|------------------------------------|
| Ndi nnyi mulapfusa?  | Ndi nnyi a re mutukana mupfufhisa? |
|                      |                                    |
| Ndi nnyi mupfufhisa? | Ndi nnyi a re musidzana mulapfusa? |
|                      |                                    |



Vhurumbu ha zwivhumbeo izwi ndi vhulapfu ha zwibogisi zwingana.



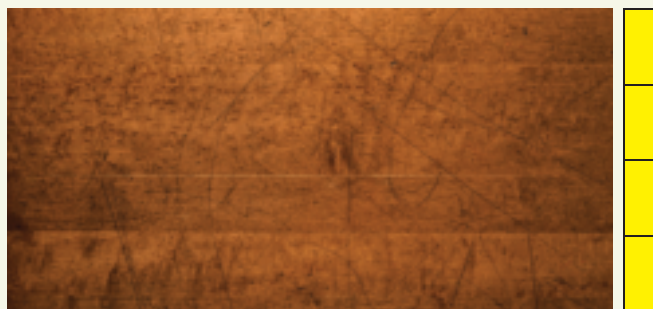








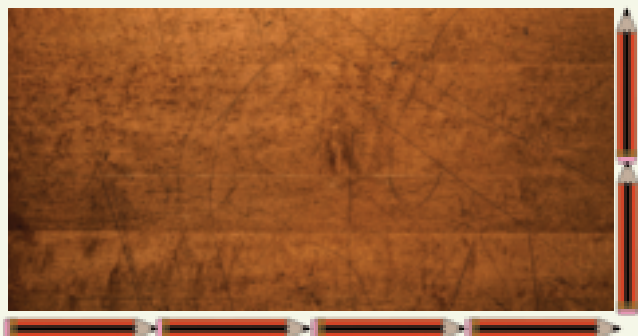
Vhulapfu na vhuphara ha ṭafula ndi vhugai nga muelo wa  
vhulapfu ha zwibuḽoko na penisela?



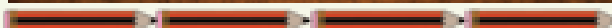
Vhuphara ndi zwibuḽoko zwa \_\_\_\_.



Vhulapfu ndi zwibuḽoko zwa \_\_\_\_.



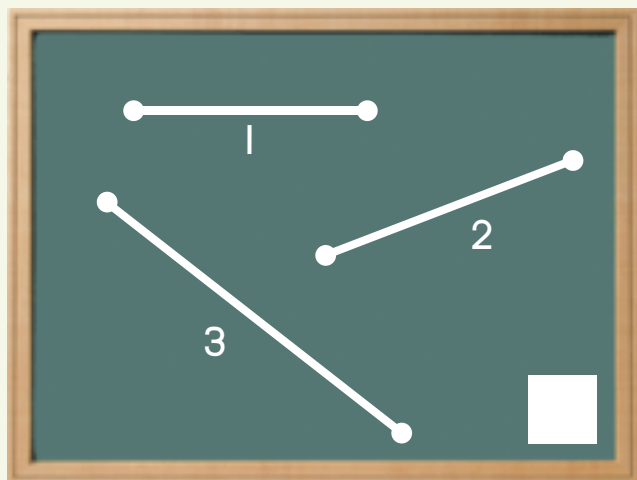
Vhuphara ndi zwibuḽoko zwa \_\_\_\_.



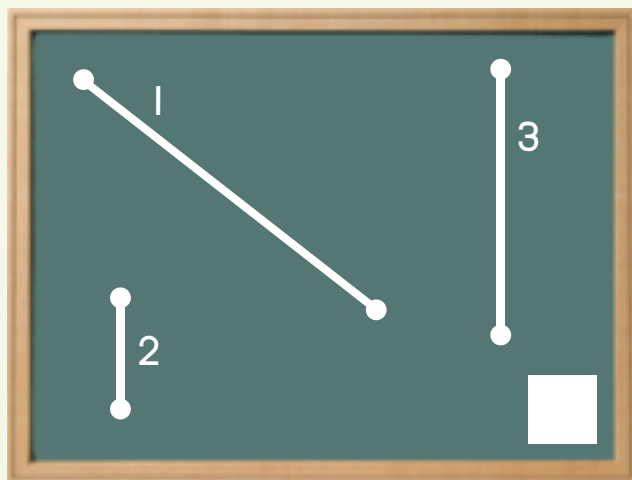
Vhulapfu ndi zwibuḽoko zwa \_\_\_\_.



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



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





# 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"/> |

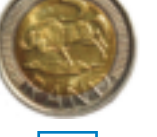


Itani thiki kha khoini dzine dza ita R10.

|                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |   |  |
| <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.

|                        |  |                       |  |                        |  |
|------------------------|--|-----------------------|--|------------------------|--|
| $R5 + RIO =$           |  | $R5 + R2 + R8 =$      |  | $RIO + RIO =$          |  |
| $R3 + RIO + R2 + R2 =$ |  | $R5 + R7 + RI + R5 =$ |  | $RIO + RI + R5 + R2 =$ |  |



Tandululani zwi tevhelaho:

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

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



Ndi na RI5:

Ndi badela nga Tshintshi

|                 |      |
|-----------------|------|
| $R4 + R7 = RII$ | $R4$ |
| $R6 + R9 =$     |      |
| $R8 + R3 =$     |      |
| $R2 + RII =$    |      |
| $R3 + R8 =$     |      |
| $R6 + R8 =$     |      |
| $RO + R2 =$     |      |
| $R2 + R2 =$     |      |
| $R4 + R2 =$     |      |
| $R6 + R2 =$     |      |



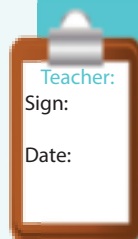
Rekanyani zwi tevhelaho.

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



Fhungudzani nga R2.

|     |  |    |  |
|-----|--|----|--|
| RII |  | R4 |  |
| RI2 |  | R6 |  |
| RIO |  | R8 |  |



## Tshelede na tshintshi



Olani dzikhoini ni ite:

|     |  |
|-----|--|
| RII |  |
| RI2 |  |
| RI3 |  |
| RI4 |  |



Itani thiki kha phindulo yone.

$$RI8 - R8 = \quad RIO$$



$$RI2 - R2 = \quad$$



$$RI5 - R4 = \quad$$



$$RI4 - R7 = \quad$$



Rekanyani zwi tevhelaho.

$$RI5 - RIO = \quad$$

$$RIO - RI - RI - R2 = \quad$$

$$R20 - R2 - R8 = \quad$$

$$R5 - R4 = \quad$$

$$R20 - R5 = \quad$$

$$RIO - RI - R5 - R2 = \quad$$

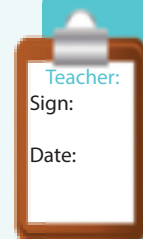
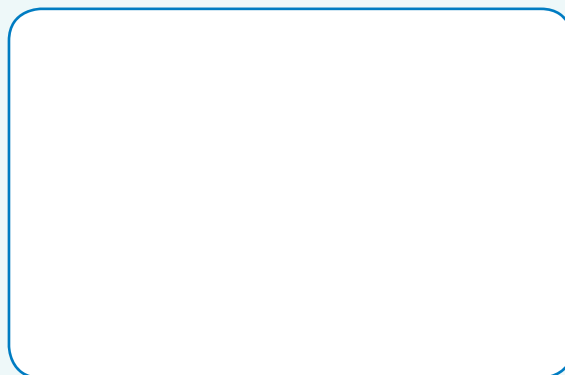


Rekanyani zwi tevhelaho.

| Ndi na R15<br>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?



11 12 13 14 15 16 17 18 19 20





## 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.

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

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

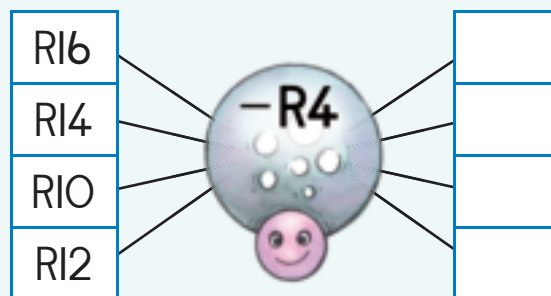
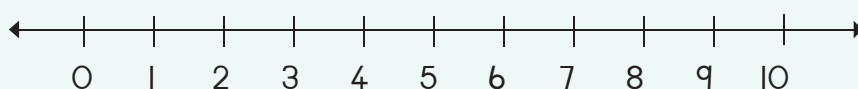
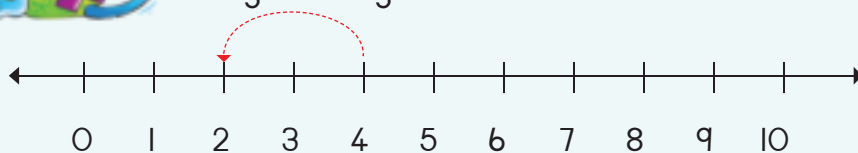
|              |  |
|--------------|--|
| $R10 - R5 =$ |  |
| $R15 - R2 =$ |  |
| $R16 - R6 =$ |  |
| $R14 - R4 =$ |  |



Thusani buvhi u fhedzisa mbalo dzotlhe.



Fhungudzani nga R2.

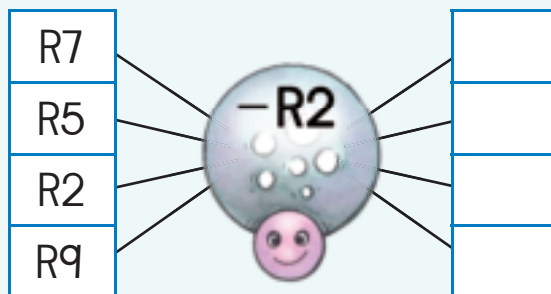


$R4 - R2 =$

$R7 - R2 =$



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?

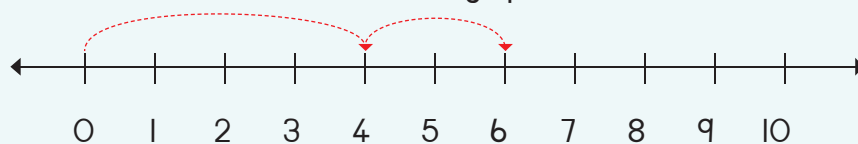


Ndo vhulunga vhugai?

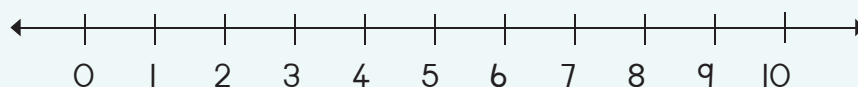


Sumbadzani mbalo kha mutalombalo ni rekanye phindulo.

$R4 + R2 =$



$R8 + R2 =$



Teacher:

Sign:

Date:

11

12

13

14

15

16

17

18

19

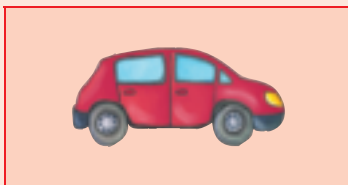
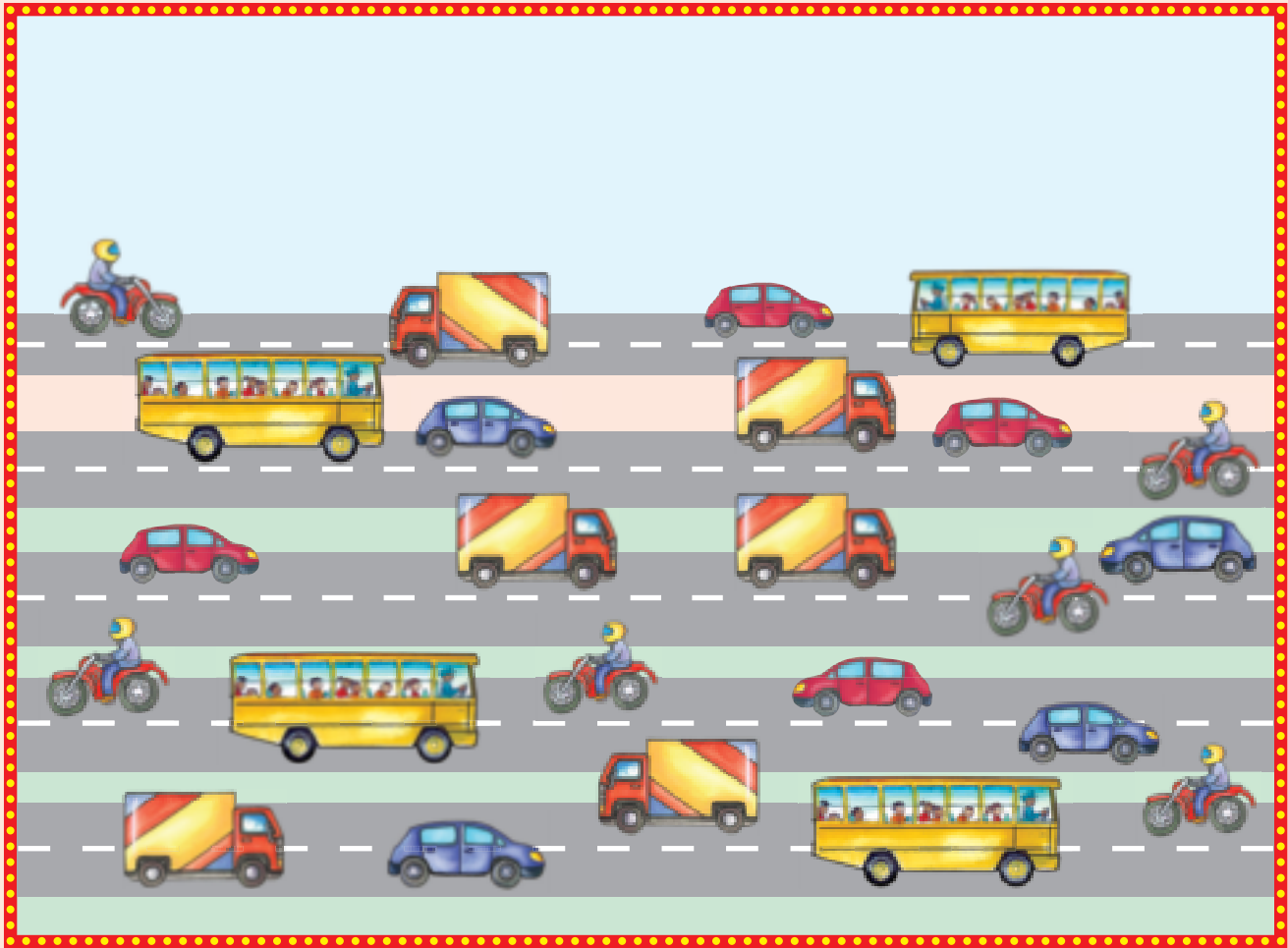
20

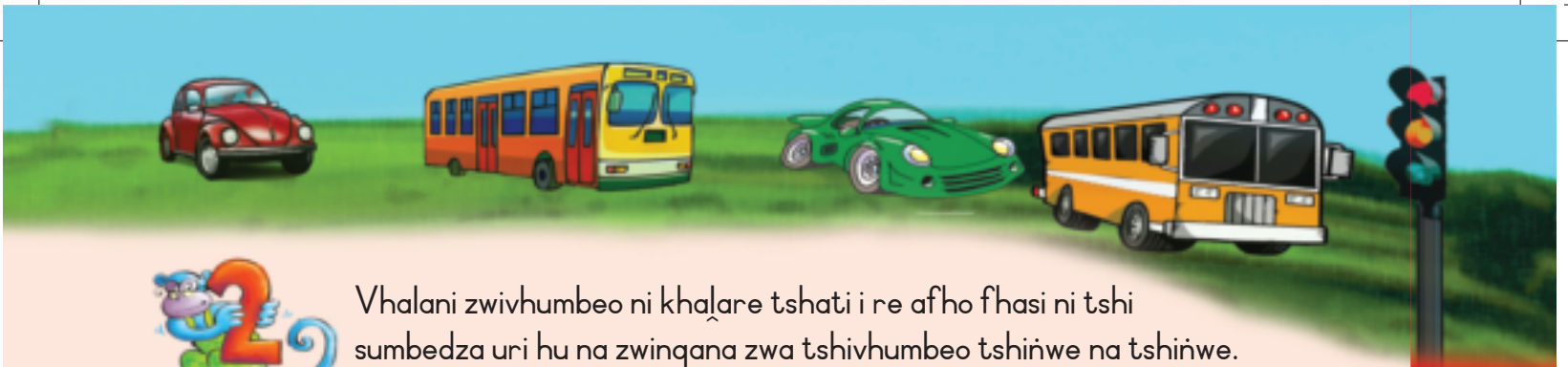
## Data

Themo ya 3



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





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



|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| 5 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |
|   |  |  |  |  |  |  |

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

Zwivhumbeo zwa \_\_\_\_\_ ndi zwone zwiṭuku.



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

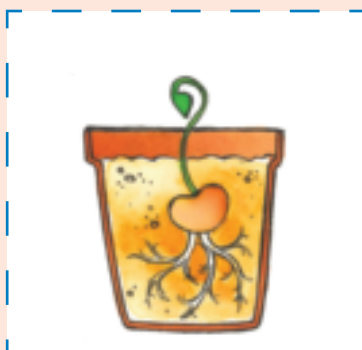
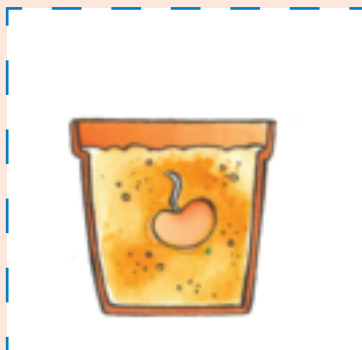
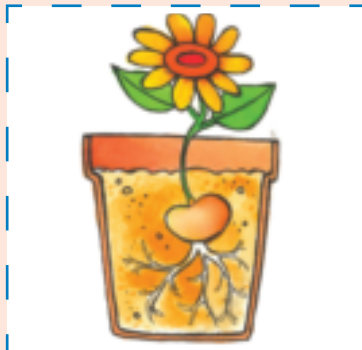
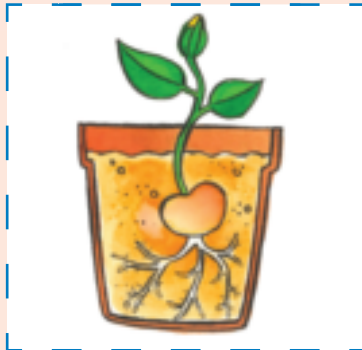




# Data na tshifhinga



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 zwiṭanu zwiṭanu u swika kha 15

Mvusuludzo:

Itani ndowendowe ya u ṛwala dzinambalo.

5

ṭhanu



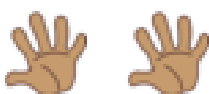
Lavhelesani tshifanyiso ni kone u fhindula mbudziso.

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

Olani zwanu hafha.

Tshigwada tshithihi  
tsha dza 5 ndi 5

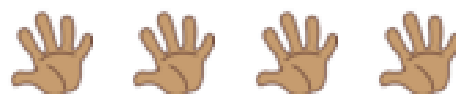
Vhalani minwe yaṇu ni ṛwale phindulo.



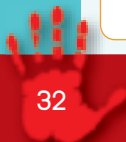
$$5 + 5 =$$



$$5 + 5 + 5 =$$



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

zwigwada zwa 2 zwa  
ṭhanu ndi 10

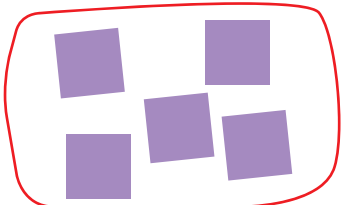


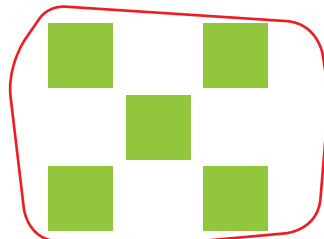
Olani zwitendeledzi u mona na zwi tevhelaho ni vhumbe:



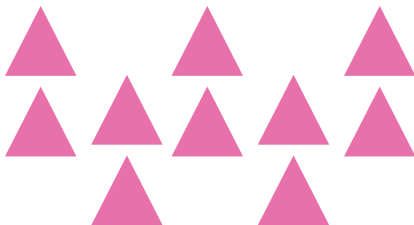
Nwalani mafhungombalo a zwi tevhelaho:

tshigwada tsha l tsha zwa 5



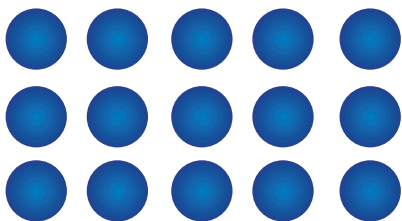


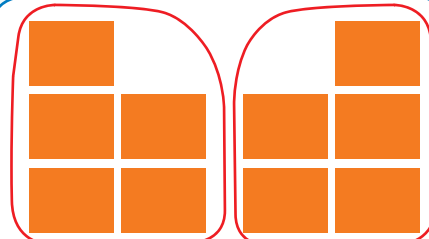

zwigwada zwa 2 zwa dza 5






zwigwada zwa 3 zwa zwa 5







Ni nga ita zwigwada zwingana zwa zwi tanuzwi tanu 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:







Thanu: ndovhololo ya mutanganyo  
u swika kha 15

Mvusuludzo:

Mvusuludzo: Nwalani nomboro dzi no khou t̃ahela.



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



Olani:

Tshigwada tsha miomva m̃tanu

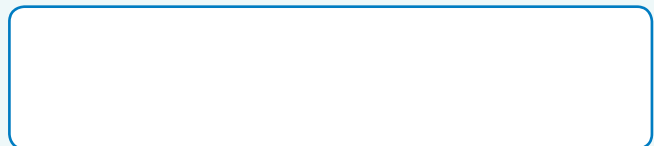
Zwigwada zwivhili zwa maluvha  
m̃tanu kha tshithihi



Olani zwivhumbeo zwa zwi tevhelaho.

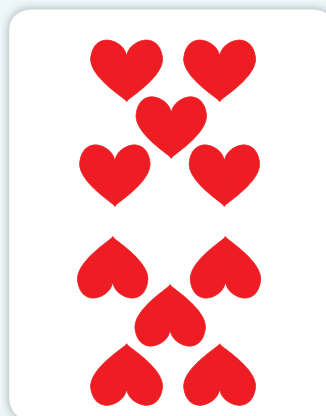
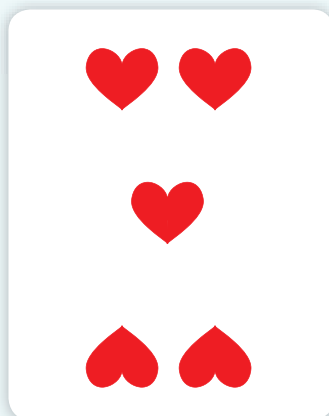
$$5 + 5 = 10$$

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





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



Nwalani fhungo mbalo la:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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

|    |    |    |    |    |   |   |   |   |    |
|----|----|----|----|----|---|---|---|---|----|
| 1  | 2  | 3  | 4  | 5  | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |   |   |   |   |    |



Ni nga kona u ita zwigwada zwingana zwa zwiṭanuzwiṭanu?

|    |    |    |            |              |  |
|----|----|----|------------|--------------|--|
| 1  | 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:



11 12 13 14 15 16 17 18 19 20





## Zwiṭanuzwiṭanu u swika kha 15



Nwalani nomboro dzi no khou ṭahela.

|    |    |   |  |   |  |   |   |   |  |
|----|----|---|--|---|--|---|---|---|--|
| I  |    | 3 |  | 5 |  | 7 | 8 | 9 |  |
| II | 12 |   |  |   |  |   |   |   |  |



Itani zwigwada zwa zwiṭanuzwiṭanu.

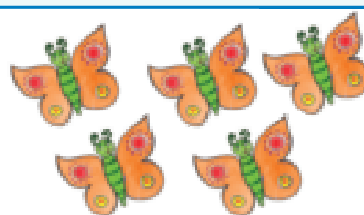
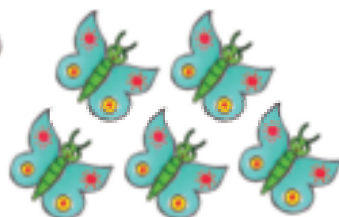
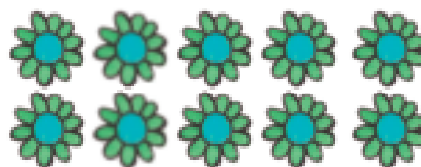
Kugoṇoṇozwithoma ku tea u vha na tshigwada tsha zwithoma zwiṭanu.

Olani zwithoma zwi no khou ṭahela.





Nwalani mafhungombalo a izwi.



Rekanyani zwi tevhelaho.

$$0 + 5 = \square$$

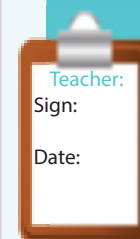
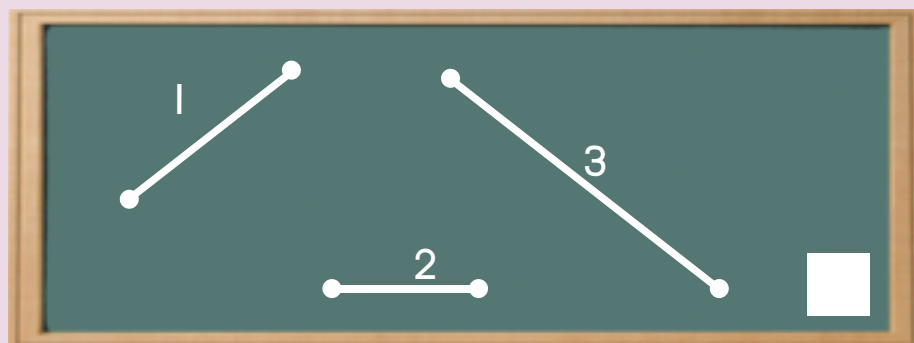
$$5 + 5 + 5 = \square$$

$$5 + 5 = \square$$

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

Mvusuludzo:

Mvusuludzo: Ndi mutaladzi ufhio u re mulapfusa?



11 12 13 14 15 16 17 18 19 20







# Phetheni dza nomboro t<sub>h</sub>anu t<sub>h</sub>anu u swika kha 50

Themo ya 3

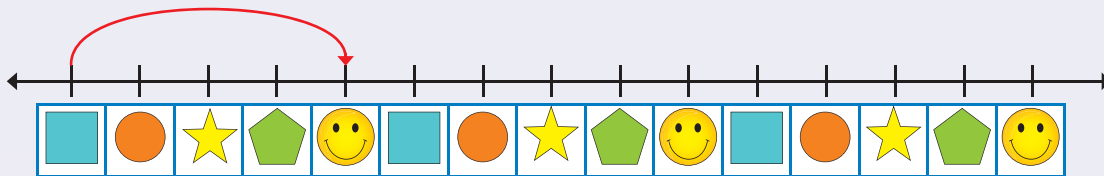


Fhedzisani phetheni ya t<sub>h</sub>anu nga u khalara nomboro.

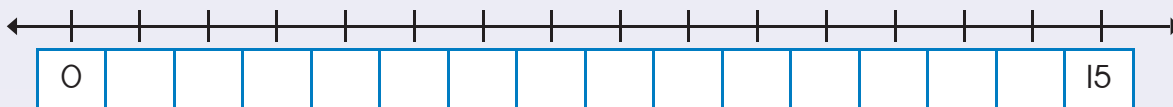
|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| I  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |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



Olani dzihupu ni tshi sumbedza zwigwada zwa zwi t<sub>h</sub>anu.



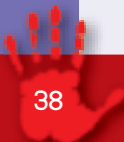
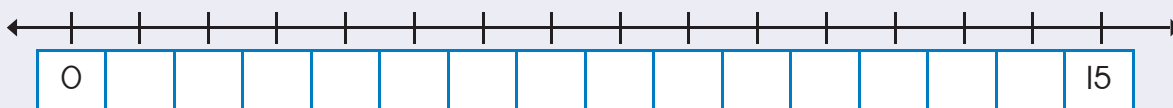
Dzhenisani nomboro dzi no khou t<sub>h</sub>ahela ni ole dzihupu ni tshi sumbedza zwigwada zwa t<sub>h</sub>anu.



Fhedzisani mutalombalo.

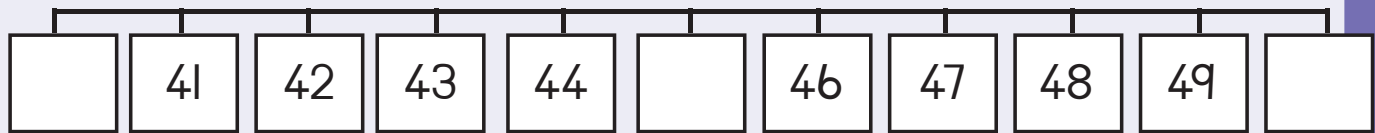
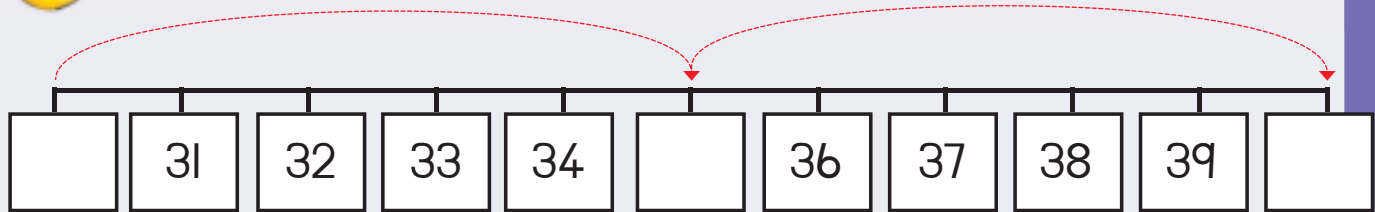
Olani dzihupu ni tshi sumbedza zwigwada zwa t<sub>h</sub>anu.

Hu na zwigwada zwa  zwa t<sub>h</sub>anu.



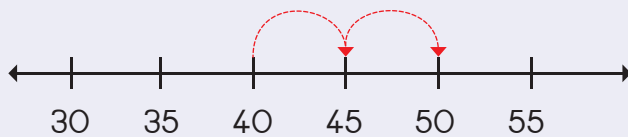


Gerani nomboro dzi no khou t̃ahela kha Tshigeriwa 2 ni dzi vhee kha mitalombalo.

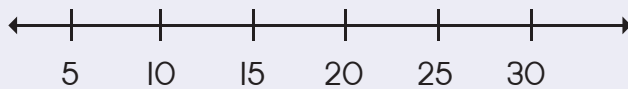


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

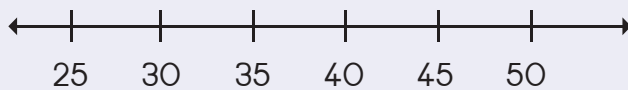
40, 45, 50



10, 15, 20



25, 30, 35



Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20





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

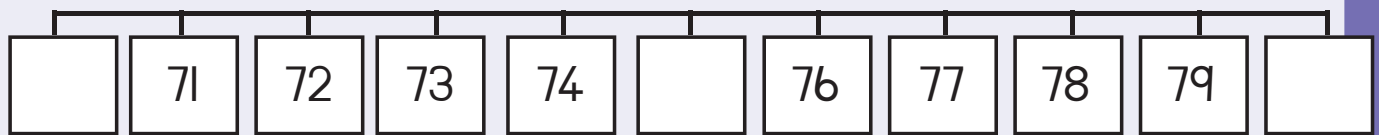
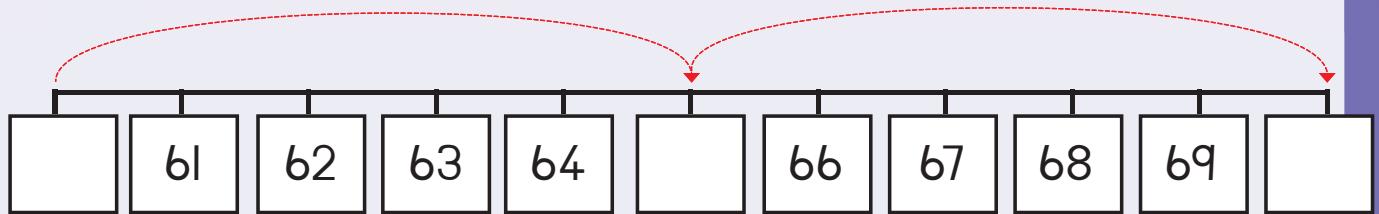


Ndi zwigwada zwingana zwa zwi<sub>t</sub>anuzwi<sub>t</sub>anu zwine na kona u zwi vhona tshifanyisoni itshi?



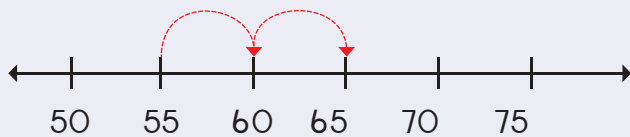
Fhedzisani zwifanyiso izwi ni tshi sumbedza zwigwada zwivhili zwa zwi<sub>t</sub>anu tshibu<sub>l</sub>okoni tshinwe na tshinwe.



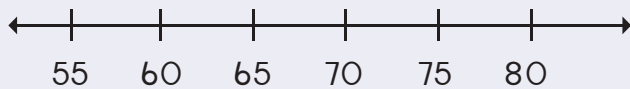


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

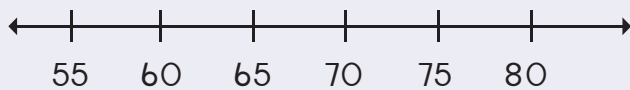
55, 60, 65



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 zwiwhumbeo 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 =





Fhedzisani zwi tevhelaho:

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



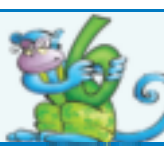
Vhalani zwithoma ni zwi inge kavhili.

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



Ingani kavhili nomboro.

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



Fhedzisani zwi tevhelaho:

|                                                                                                                                                                                                           |                                                                                                           |   |   |   |   |   |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|--|--|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|--|--|--|--|--|--|--|
| Hu na maduvha mangana kha vhege?                                                                                                                                                                          | Hu na maduvha mangana kha vhege mbili?                                                                    |   |   |   |   |   |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |
| <table border="1"> <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 |  |  |  |  |  |  |  | <table border="1"> <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 |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |
|                                                                                                                                                                                                           |                                                                                                           |   |   |   |   |   |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |
| Ri ri 7 yo ingwa kavhili ndi 14.<br>Hafu ya 14 ndi mini?                                                                                                                                                  |                                                                                                           |   |   |   |   |   |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |
| Ni kona u vhona milenzhe mingana?                                                                                                                                                                         | Ni kona u vhona milenzhe mingana zwino?                                                                   |   |   |   |   |   |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |
|  <input type="text"/>                                                                                                  |  <input type="text"/> |   |   |   |   |   |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |
| Ri ri 2 yo ingwa kavhili ndi 4.<br>Hafu ya 4 ndi mini?                                                                                                                                                    |                                                                                                           |   |   |   |   |   |   |  |  |  |  |  |  |  |                                                                                                                                                                                                           |   |   |   |   |   |   |   |  |  |  |  |  |  |  |



Fhedzisani zwi tevhelaho:

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

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

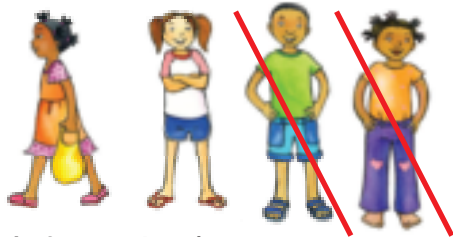


Deithi:

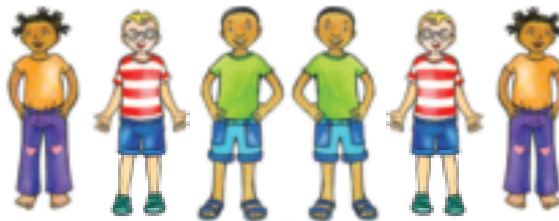
## Hafu



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 =



Hafu ya 2 ndi =



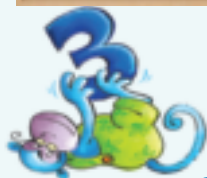
Hafu ya 4 ndi =



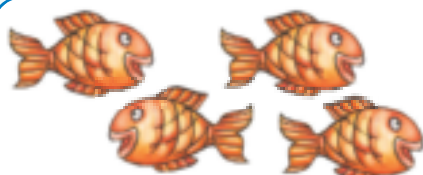
Hafu ya 10 ndi =



Hafu ya 6 ndi =

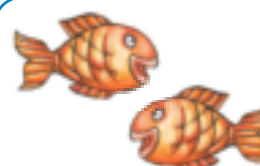


Hu na khovhe nngana?





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:



11 12 13 14 15 16 17 18 19 20





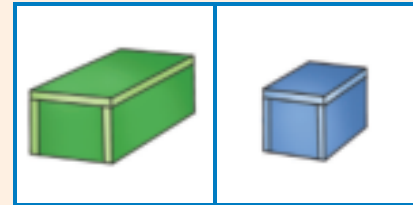
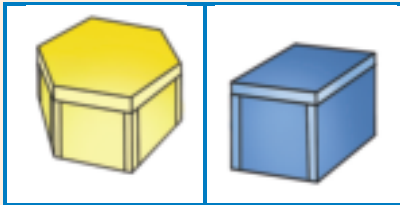


## Zwithu zwa 3-D

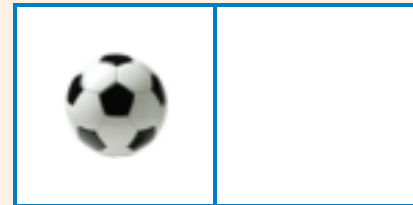
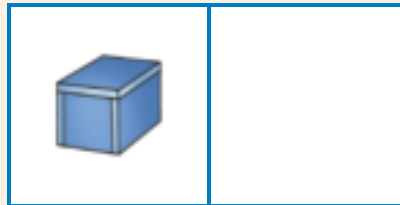
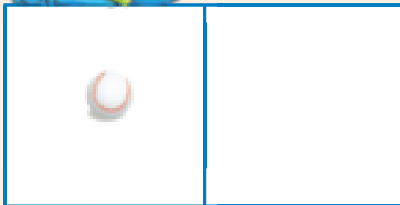
Themo ya 3



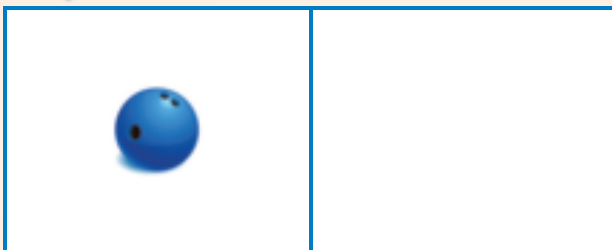
Itani thiki kha tshithu tshitukusa.



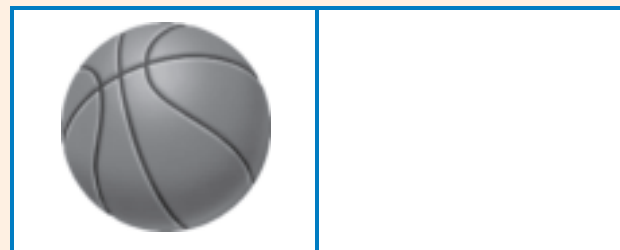
Olani tshithu tshihulwane kha tshanda tsha u la tsha tshifanyiso tshiwe na tshiwe.



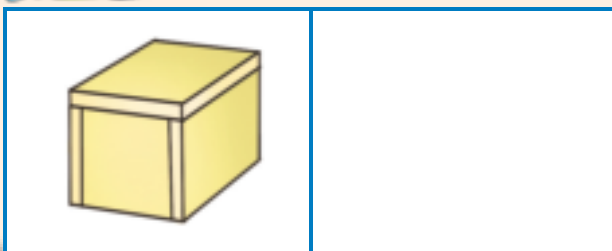
Olani bola i re khulwane kha bola ya lutombo.



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.

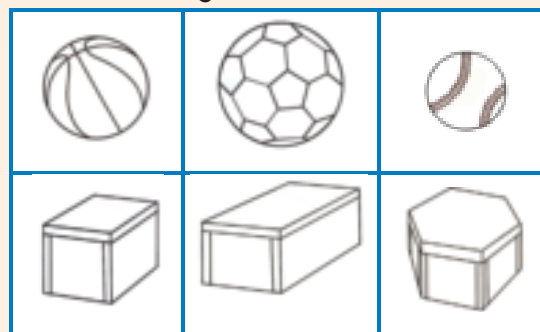




Khalarani bogisi litukusa nga muvhala wa lutombo na bola thukhusa nga muvhala wa tada.



Khalarani bogisi lihulwanesa nga muvhala wa pinki na bola khulwanesa nga muvhala mutswuku.



Ni nga kona u fhata 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 gurannda ni tshi ita thawara mbili dza inwi mune.

Ni elelwe uri thawara idzi dzi tea u ima nga dzotlhe (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?  
Khalarani 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?  
Khalarani phindulo i re yone.



ee

hai



ee

hai



ee

hai



Vhekanyani zwithu zwi tevhelaho nga u zwi ola tshibulokoni tshone.

|  |      |          |
|--|------|----------|
|  | Bola | Mabogisi |
|--|------|----------|



Vhekanyani zwithu nga saizi yazwo ni tshi tou zwi ola.

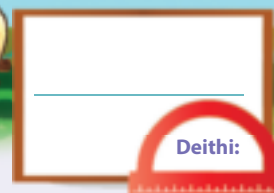
|  |               |                    |
|--|---------------|--------------------|
|  | Bola tshukhu  | Mabogisi matshuku  |
|  | Bola khulwane | Mabogisi mahulwane |



Teacher:  
Sign:  
Date:







# Phetheni dza dzhometiri

Mvusuludzo:

Olani zwi tevhelaho:

tshitendeledzi

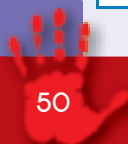
tshikwea

rekithiengele



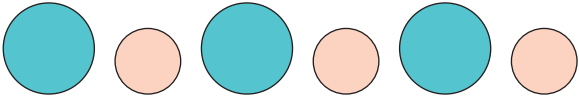
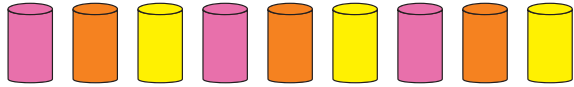
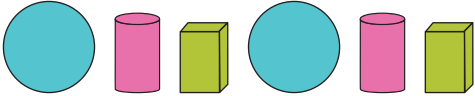
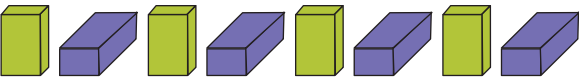
Fhedzisani phetheni.

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
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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 |
|---|---|---|---|---|---|--|--|--|---|---|---|

11 12 13 14 15 16 17 18 19 20



|          |
|----------|
| Teacher: |
| Sign:    |
| Date:    |



90



Deithi:

## Zwigwada zwa mbili u swika kha 15



Nwalani dzinambalo la tshiga itshi.

2

mbili



Fhindulani mbudziso.



Ni kona u vhona phingwini nngana?

Ni kona u vhona phere nngana dza milenzhe?

I nwaleni sa fhungombalo:



Fhindulani mbudziso.



Hu na bugu nngana?

Ndi nga kona u ita zwigwada zwingana zwa mbili?

I nwaleni sa fhungombalo.



Nwalani dzinambalo la tshiga itshi.

4



Vhalani mabesu, ni n'wale phindulo yaṅu.



$$2 + 2 =$$



$$2 + 2 + 2 =$$



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

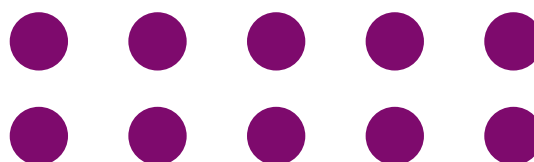


Itani zwitendeledzi u mona na zwi tevhelaho uri ni ite:

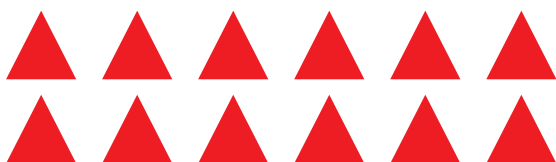
zwigwada zwa 4 zwa dza 2



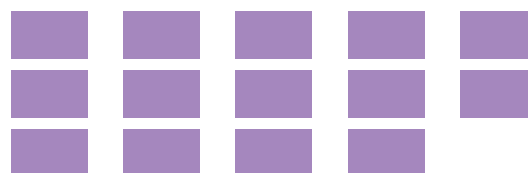
zwigwada zwa 5 zwa zwa 2



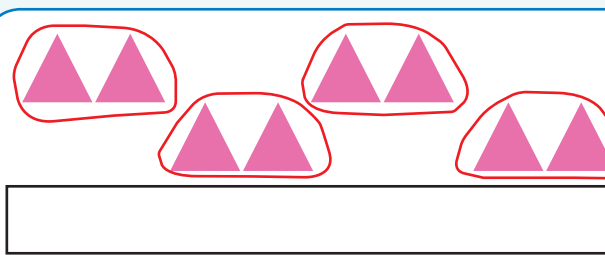
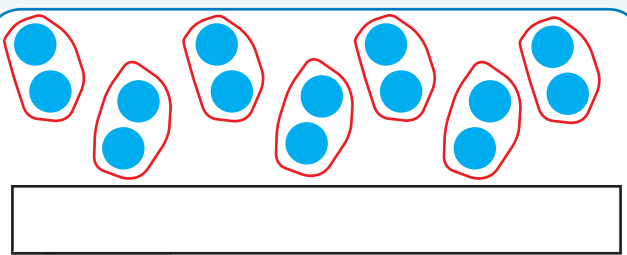
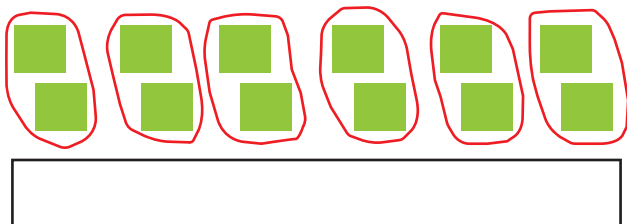
zwigwada zwa 6 zwa dza 2



zwigwada zwa 7 zwa dza 2



Nwalani fhungombalo la zwi tevhelaho.



Ni nga ita zwigwada zwingana zwa zwivhili?

|                 |              |
|-----------------|--------------|
| 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:

11 12 13 14 15 16 17 18 19 20



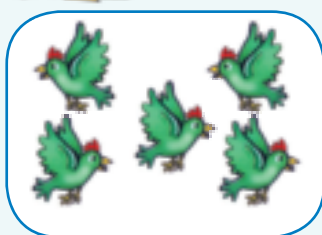




# Ndovhololo ya mutanganyo wa mbili u swika kha 15



Hu na milenzhe mingana?

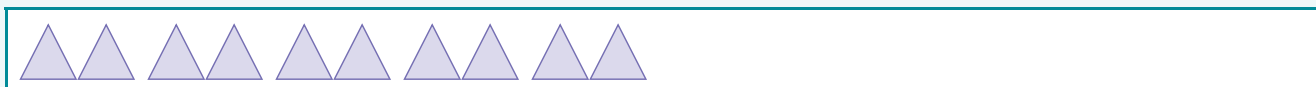


No i vhalisa hani?



Olani zwivhumbeo ni tshi sumbedza zwi tevhelaho:

$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$



$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$

$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$

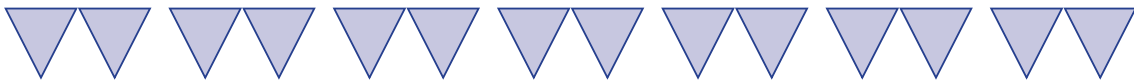
$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$

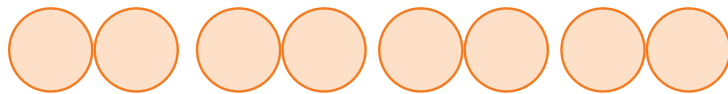


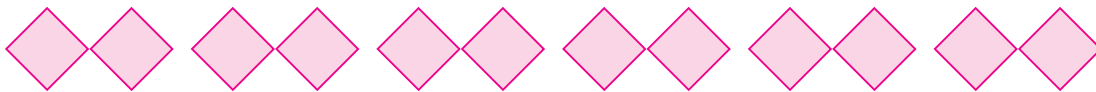
Nwalani mafhungombalo a zwi tevhelaho:



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









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









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 |   |   |   |   |    |

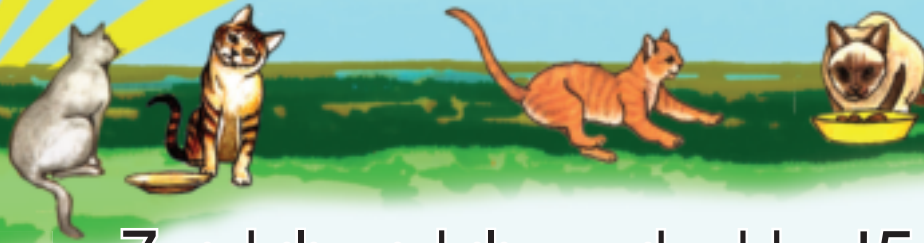


Teacher:  
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Date:



II 12 13 14 15 16 17 18 19 20

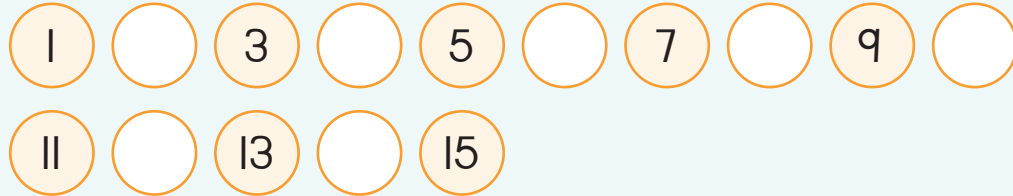




## Zwivhilizwivhili u swika kha 15

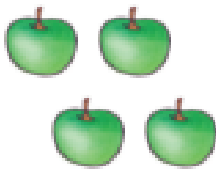


Nwalani nomboro dzi no khou t̃ahela.



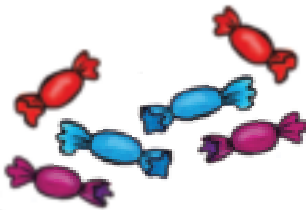
Itani zwigwada zwa mbili.

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



Hu na zwigwada zwingana zwa maapula?

Nwana muñwe na muñwe u ɗo wana maapula mangana?



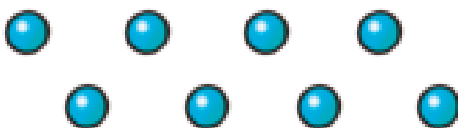
Hu na zwigwada zwingana zwa maɓegere?

Nwana muñwe na muñwe u ɗo wana maɓegere mangana?



Hu na zwigwada zwingana zwa mimavhuɓu?

Nwana muñwe na muñwe u ɗo wana mimavhuɓu mingana?



Hu na zwigwada zwingana zwa mimavhuɓu?

Nwana muñwe na muñwe u ɗo wana mimavhuɓu mingana?



Ñwalani nomboro  
dzi no khou țahela.

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



Ñwalani f'hungombalo ni tshi shumisa mbili.

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



Rekanyani zwi tevhelaho.

|                               |  |
|-------------------------------|--|
| $2 + 2 + 2 =$                 |  |
| $2 + 2 + 2 + 2 =$             |  |
| $2 + 2 + 2 + 2 + 2 =$         |  |
| $2 + 2 + 2 + 2 + 2 + 2 =$     |  |
| $2 + 2 + 2 + 2 + 2 + 2 + 2 =$ |  |



Tangedzelani zwigwada zwa  
zwivhilizwivhili kha mutaladzi  
muñwe na muñwe.



Teacher:  
Sign:  
Date:





# Phetheni dza nomboro 2 u swika kha 50



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



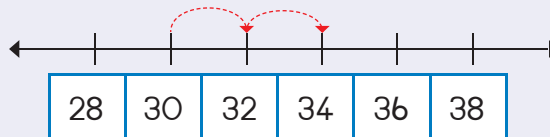
Fhedzisani phetheni nga u khalara nomboro dzone.

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

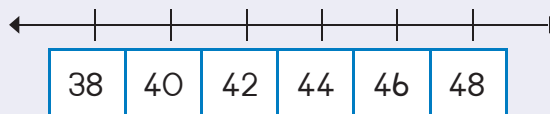


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

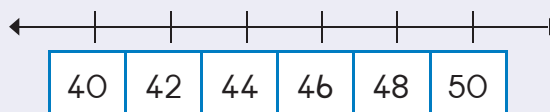
30, 32, 34



40, 42, 44



46, 48, 50





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



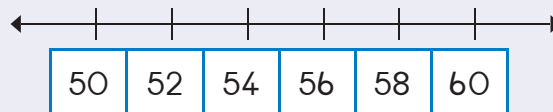
Fhedzisani phetheni nga u khalara nomboro dzone.

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

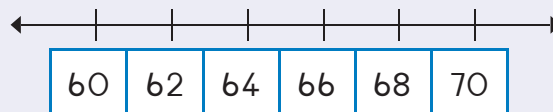


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

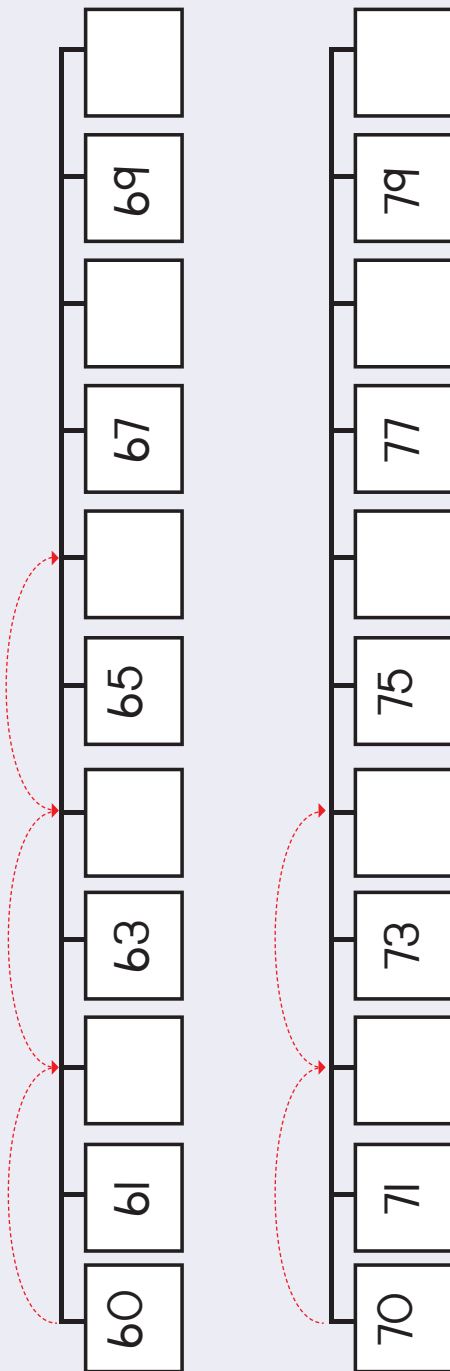
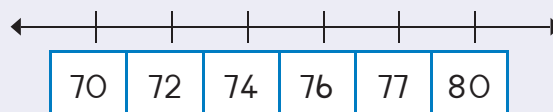
54, 56, 58



64, 66, 68



72, 74, 76



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

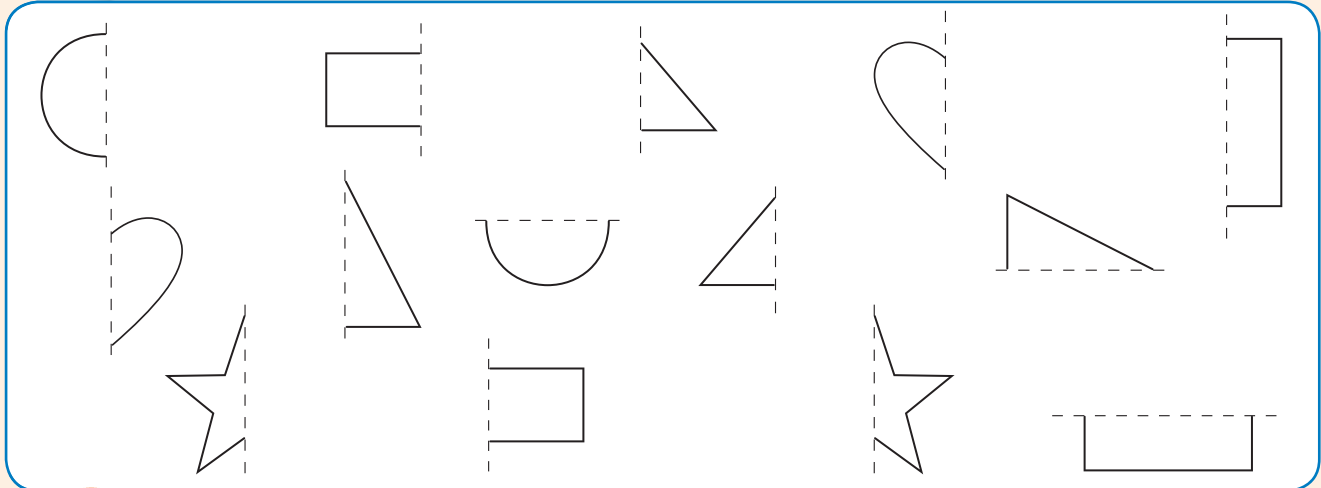




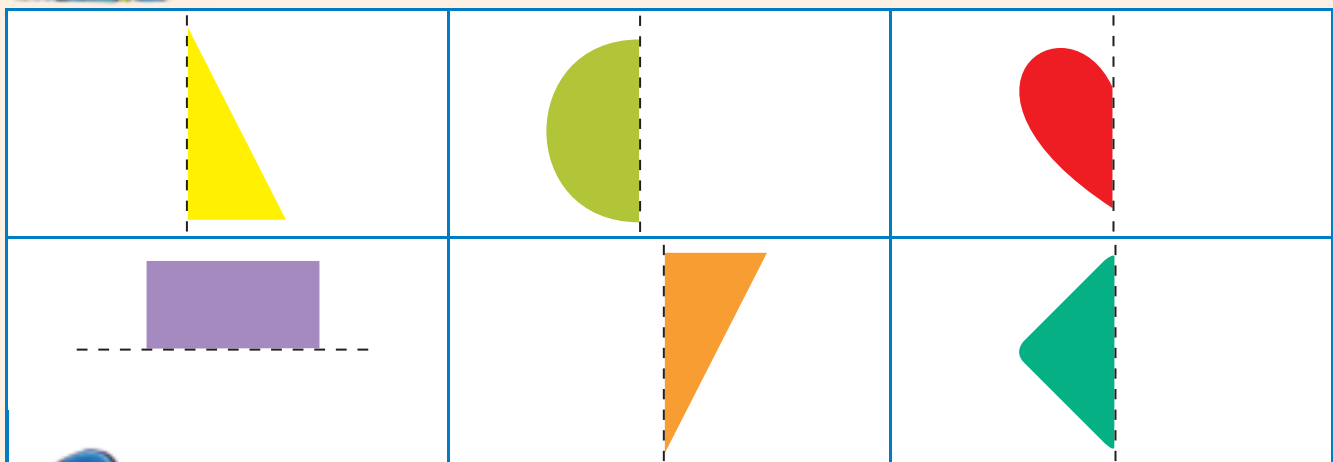
# Ndinganahuvhili



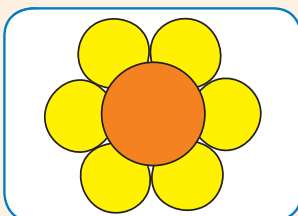
Khalarani zwipida zwivhili zwa zwivhumbeo zwine zwa do vhumba tshivhumbeo tshithihi.



Olani ila inwe hafu ni i khalarare.

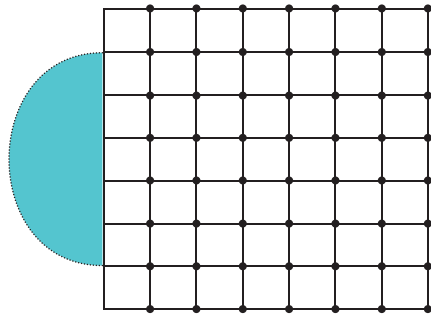
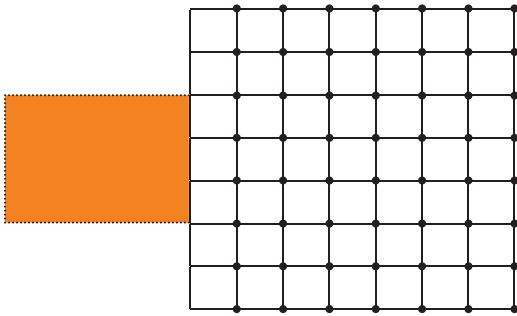
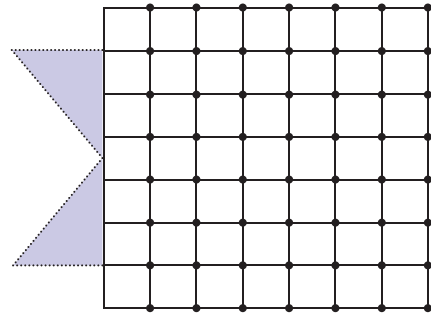
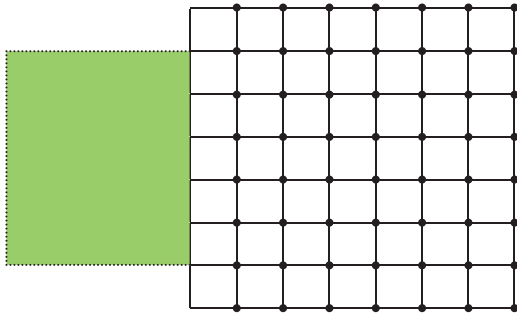
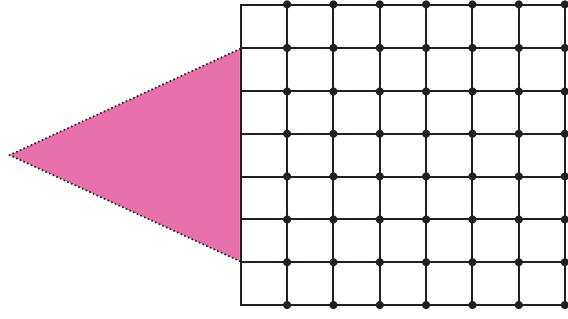
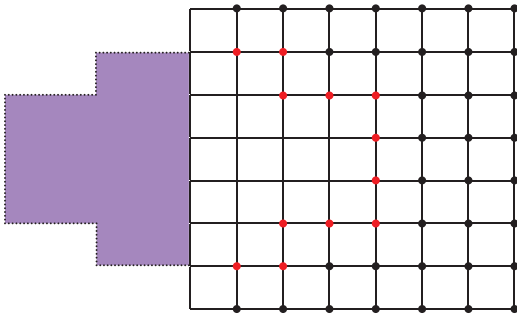


Talani mutalo u no fhandula zwifanyiso izwi zwa bva hafu mbili dzi no lingana kwakwakwa.

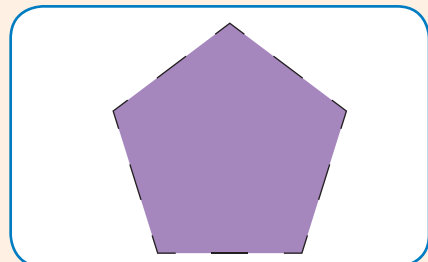
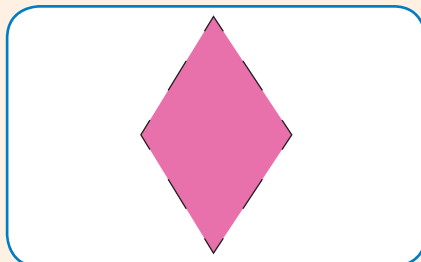
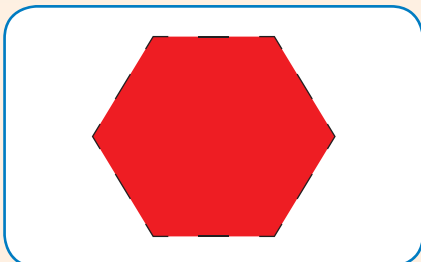




Olani ila inwe hafu ya tshivhumbeo ni tshi shumisa bodo ya giridi uri i ni dededze.



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



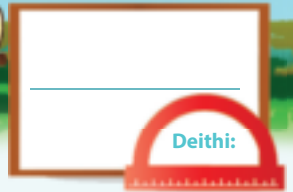
Teacher:  
Sign:  
Date:

11 12 13 14 15 16 17 18 19 20





95

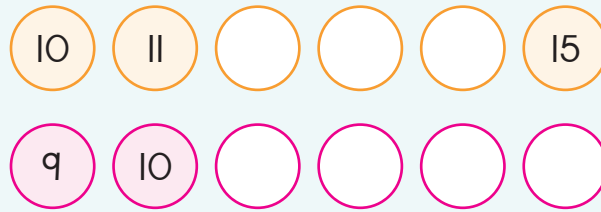


# Momboro na vhuimo ha nomboro

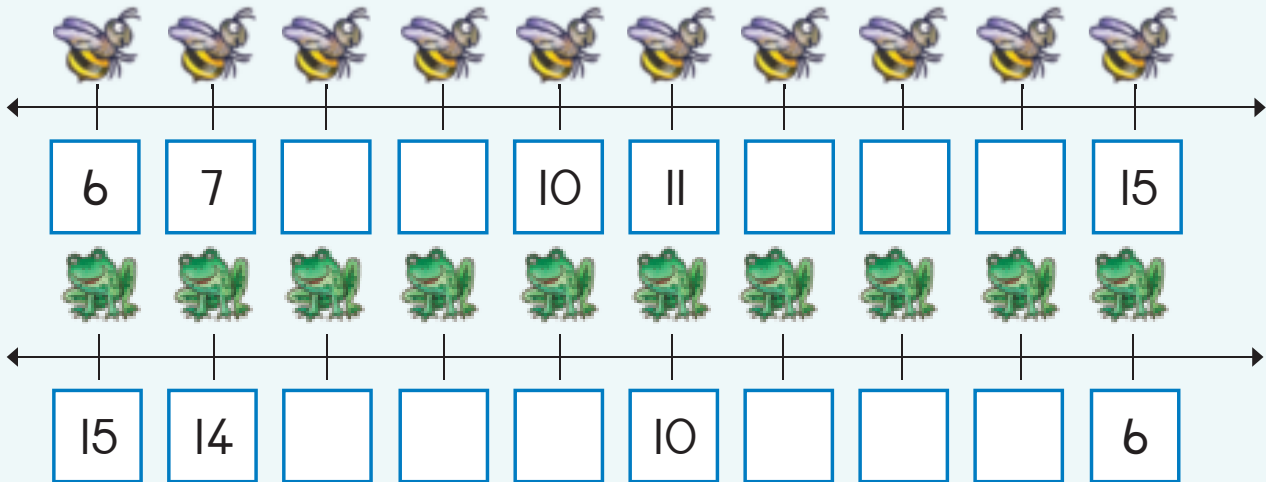
Themo ya 3



Nwalani nomboro dzi no khou t̃ahela.



Nwalani nomboro dzi no khou t̃ahela.



Nwalani phindulo.

|            |    |
|------------|----|
| $10 + 1 =$ | 11 |
| $10 + 2 =$ |    |
| $10 + 5 =$ |    |
| $10 + 3 =$ |    |

|             |  |
|-------------|--|
| $15 - 10 =$ |  |
| $14 - 10 =$ |  |
| $12 - 10 =$ |  |
| $11 - 10 =$ |  |





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



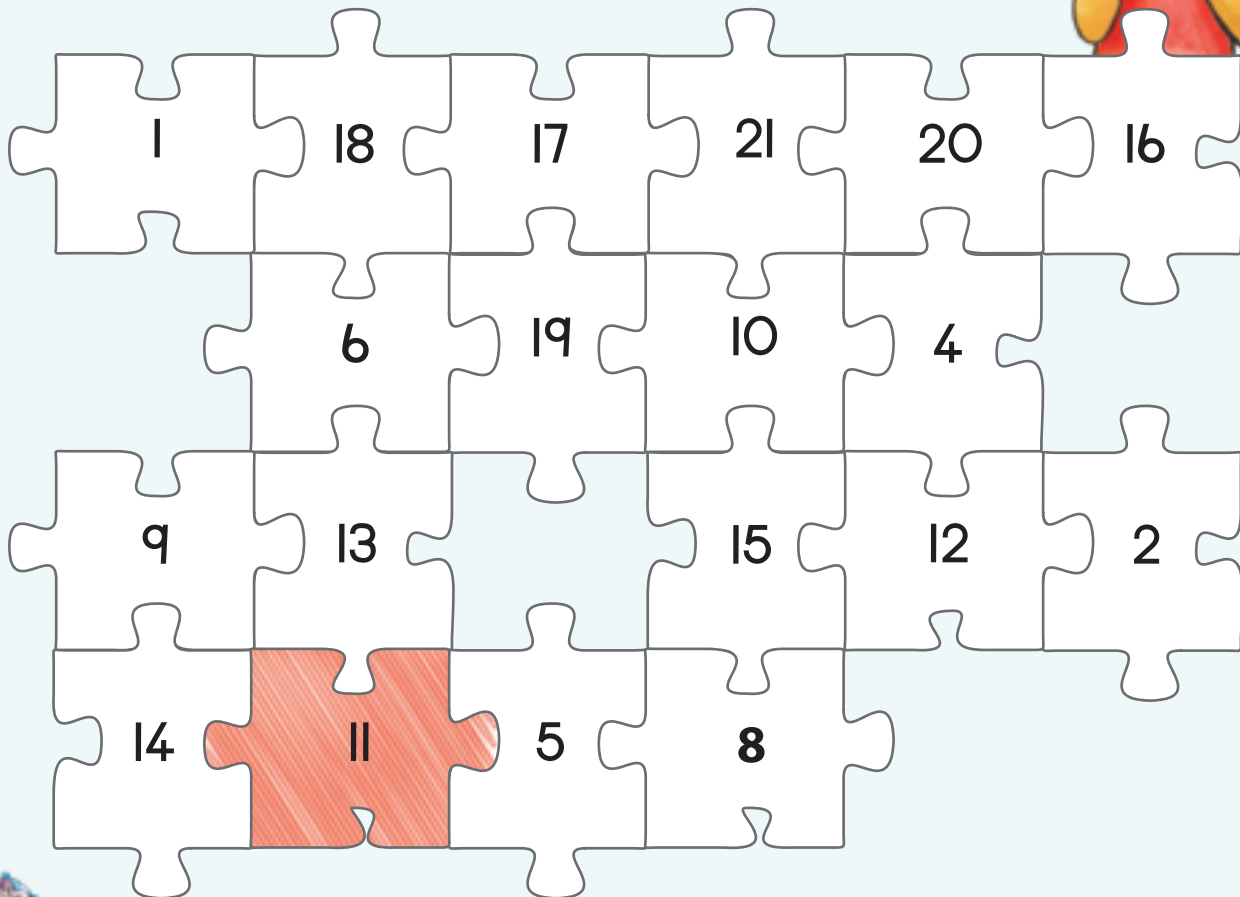
10 + 4 nga mutāda



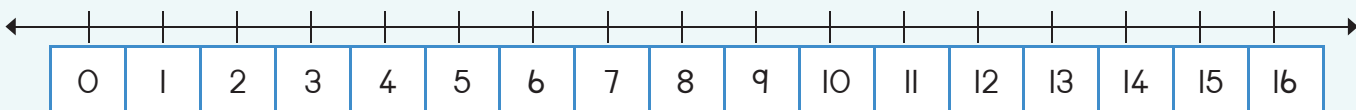
10 + 0 nga mudala



10 + 2 nga wa tshitopana



Sumbedzani fumi na inā kha mutalombalo:



11 12 13 14 15 16 17 18 19 20



# Vhulapfu (Vhunavha)

Themo ya 3



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

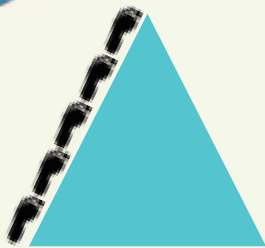


Vhulapfu vhu lingana vhulapfu ha tshanda ha \_\_\_\_\_.

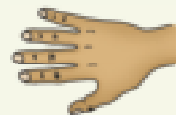
Vhuphara vhu lingana vhulapfu ha tshanda ha \_\_\_\_\_.



Ndi maga mangana a no ela vhulapfu ha matungo?



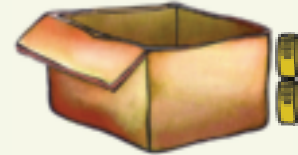
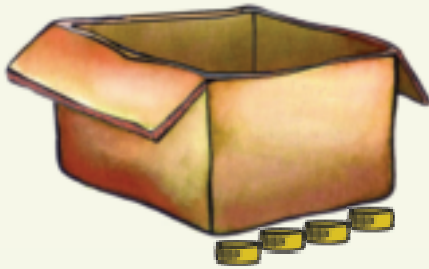
Nwalani phindulo.



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



Vhulapfu na vhuphara ha bogisi ili ndi vhufhio?

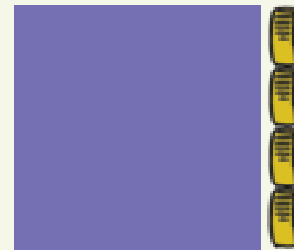
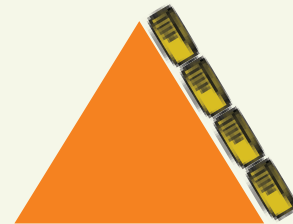


Vhulapfu ha hone vhu lingana vhulapfu  
ha zwithivho zwa babodelo zwa \_\_\_\_\_.

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



Ndi zwithivho zwingana zwi no ela vhulapfu ha matungo.



Teacher:  
Sign:  
Date:





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Deithi:

# Nomboro 16

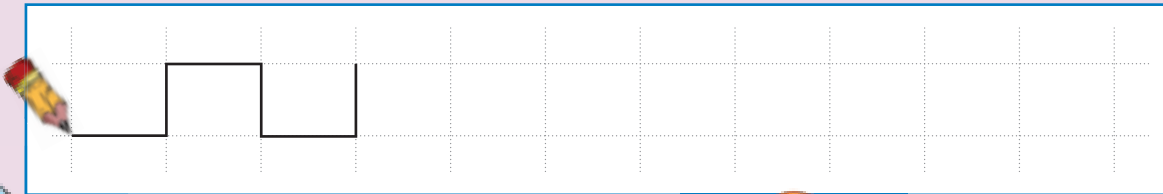
Themo ya 4

Mvusuludzo:

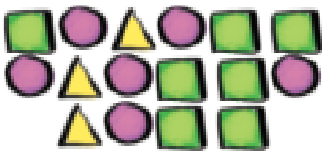
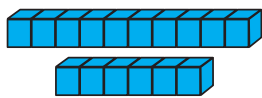
Itani ndowendowe ya u n'wala dzinambalo ni f'hedzise phetheni.

7

sumbe



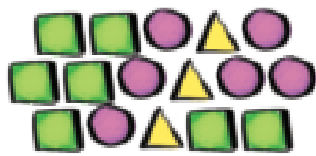
Livhanyani zwifanyiso.



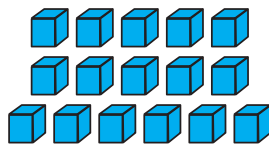
10

6

16



16



10

6



Tovhedzelani nomboro.

16 16 16 16

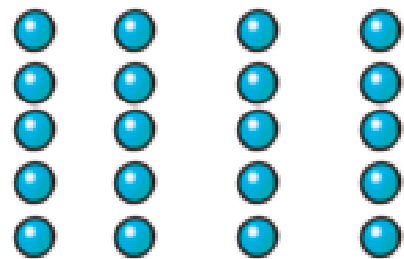
fumirathi

16 16 16 16

fumirathi



Tangedzelani mimbete ya 16 f'hedzi.



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



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 |           |
|  |    | fumirathi |
|  |    |           |
|  |    |           |



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 |

11 12 13 14 15 16 17 18 19 20



Teacher:

Sign:

Date:



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Deithi:

# Nomboro 17

Themo ya 4

Mvusuludzo:

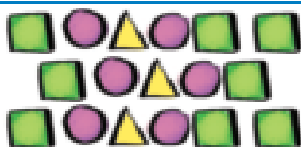
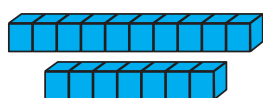
Itani ndowendowe ya u n'wala dzinambalo ni f'hedzise phetheni.

8

malo



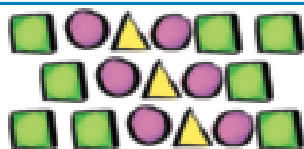
Livhanyani zwifanyiso.



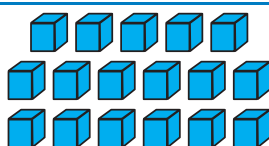
10

7

17



17



10

7



Tovhedzelani nomboro.

17 17 17 17

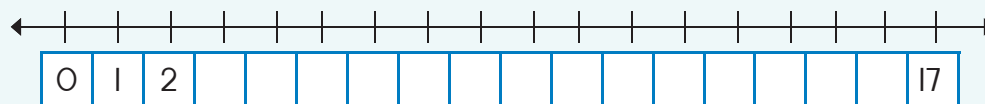
fumisumbe

17 17 17 17

fumisumbe



Fhedzisani mutalombalo.



68

0

1

2

3

4

5

6

7

8

9

10



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 thihl?

Ndi nomboro ifhio i re tshukhu kha fumisumbe nga mbili?

Ndi nomboro ifhio i re khulwane kha fumisumbe nga thihl?

Ndi nomboro ifhio i re khulwane kha fumisumbe nga mbili?



Nwalani nomboro i no khou tshela.

Nwalani nomboro dzi no  
khou tshela.

|  |    |  |    |  |    |  |    |  |    |
|--|----|--|----|--|----|--|----|--|----|
|  | 2  |  | 4  |  | 6  |  | 8  |  | 10 |
|  | 12 |  | 14 |  | 16 |  | 18 |  | 20 |



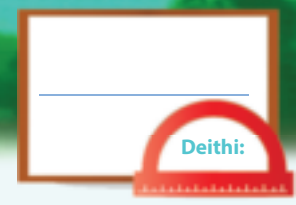
Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20







# Nomboro 18

Mvusuludzo:

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

9

tshane



Livhanyani zwifanyiso.



Tovhedzelani nomboro.

10

8

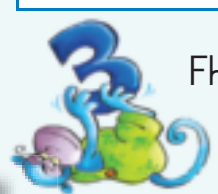
## 18

## 18

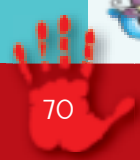
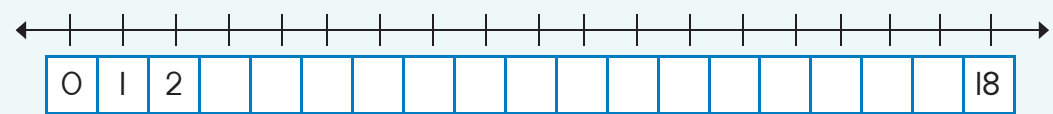
10

8

|          |    |    |    |
|----------|----|----|----|
| 18       | 18 | 18 | 18 |
| fumimalo |    |    |    |
| 18       | 18 | 18 | 18 |
| fumimalo |    |    |    |



Fhedzisani mutalombalo.





Olani zwithu zwa l8.

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 l8 nga thihi?

Ndi nomboro ifhio i re tshukhu kha l8 nga mbili?

Ndi nomboro ifhio i re khulwane kha l8 nga thihi?

Ndi nomboro ifhio i re khulwane kha l8 nga mbili?

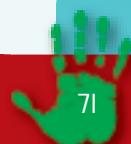


Nwalani nomboro i no khou tshela.

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



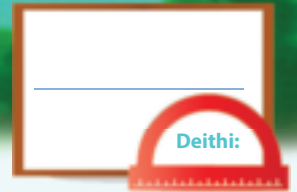
Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20



100



# Nomboro 19

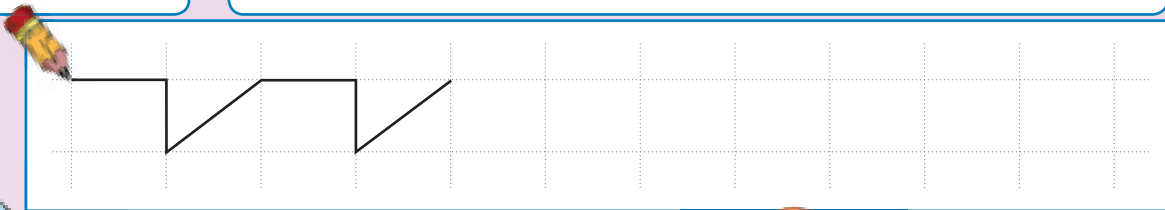
Themo ya 4

Mvusuludzo:

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

10

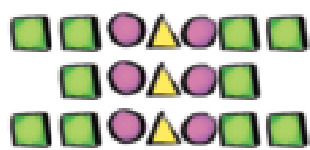
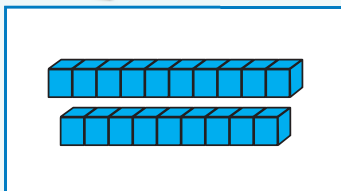
fumi



Livhanyani zwifanyiso.

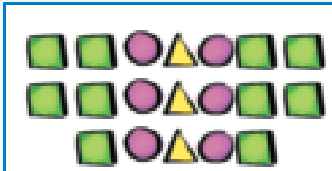


Tovhedzelani nomboro.

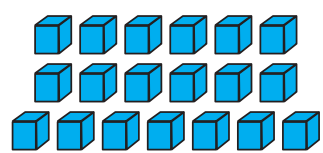


10  
9

19



19



10  
9

19 19 19 19

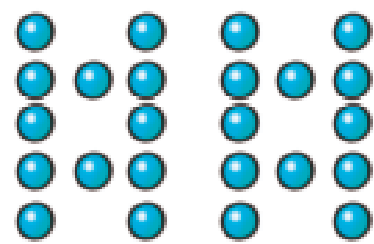
fumit'ache

19 19 19 19

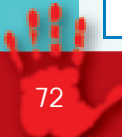
fumit'ache



Tangedzelani vhulungu ha 19 f'hedzi.



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?



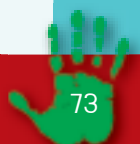
Nwalani nomboro i no khou tshahela.

|    |  |    |  |    |  |    |  |    |  |
|----|--|----|--|----|--|----|--|----|--|
| I  |  | 3  |  | 5  |  | 7  |  | 9  |  |
| II |  | 13 |  | 15 |  | 17 |  | 19 |  |

Linwe dzina ladzo ndi  
nomboro dza ivini.

Teacher:  
Sign:  
Date:

11 12 13 14 15 16 17 18 19 20





# IOI

Deithi:

## Nomboro 20

Themo ya 4



Livhanyani zwifanyiso.

|                             |
|-----------------------------|
|                             |
|                             |
| <div>10</div> <div>10</div> |
| 20                          |
|                             |

|                             |
|-----------------------------|
|                             |
| 20                          |
|                             |
|                             |
| <div>10</div> <div>10</div> |



Tovhedzelani nomboro.

20 20 20 20

fumbili

20 20 20 20

fumbili



Tangedzelani vhumu 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
- ☐ tahe
- ☐ raru
- ☐ fumithihi
- ☐ fumimbili
- ☐ thihi
- ☐ mbili
- ☐ malo
- ☒ zero
- ☐ thanu
- ☐ rathi
- ☐ fumiraru
- ☐ fumi
- ☐ fumiina



Nwalani nomboro i no khou  
tahela.

| Rangela |    | Tevhela |
|---------|----|---------|
| 16      | 17 |         |
|         | 12 |         |
|         | 14 |         |
|         | 9  | 10      |
|         | 6  |         |

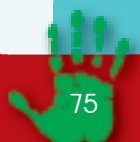


Shumisani maipfi a thukhu na  
khulwane ni tshi fhedzisa hezwi:

|                     |
|---------------------|
| 35 ndi _____ kha 38 |
| 79 ndi _____ kha 65 |

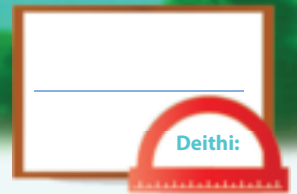


Teacher:  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



11 12 13 14 15 16 17 18 19 20





# Mutanganyo

Themo ya 4



Tangedzelani nomboro i re khulwane tshibulokoni 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 zwibuloko.

|                                    |          |          |
|------------------------------------|----------|----------|
| $10 + 2 + 3 = 15$<br>$10 + 5 = 15$ | <br><br> | <br><br> |
|------------------------------------|----------|----------|



Nwalani fhungombalo la zwi tevhelaho.

|      |      |      |
|------|------|------|
| <br> | <br> | <br> |
|------|------|------|





Nwalani fhungombalo la zwi tevhelaho:



|                                           |                      |                      |
|-------------------------------------------|----------------------|----------------------|
| <br>$8 + 4 = 12$<br><br><br>$10 + 2 = 12$ | <br><br><br><br><br> | <br><br><br><br><br> |
| <br><br><br><br><br>                      | <br><br><br><br><br> | <br><br><br><br><br> |

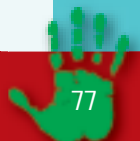


Nwalani nomboro dzi no khou t̃ahela.

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



Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20

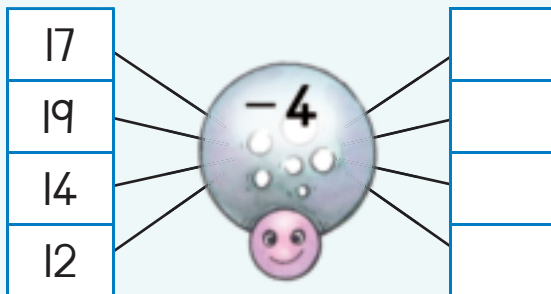


## Mutuso

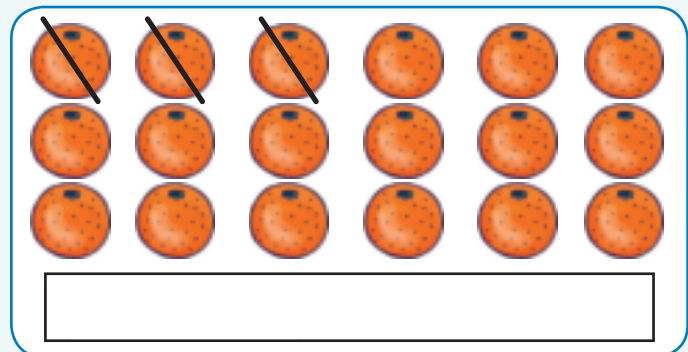
Themo ya 4



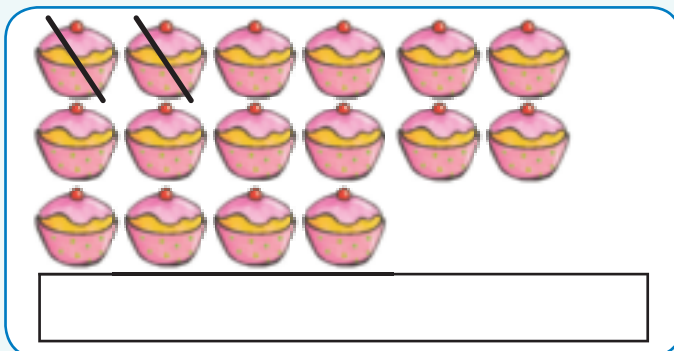
Rekanyani.



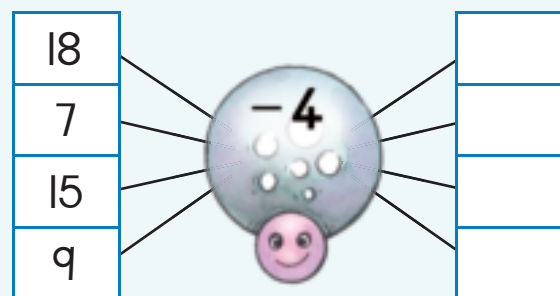
Nwalani fhungombalo.



Nwalani fhungombalo.



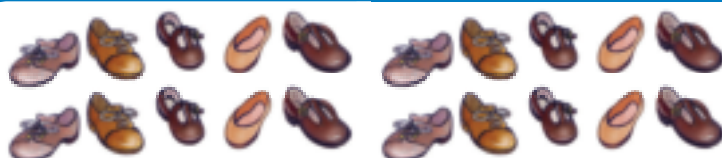
Rekanyani.



Fhedzisani mbalo ni tshi shumisa nyolo (zwifanyiso).



$$16 - \square = 11$$



$$10 + \square = \square$$





Tusani zwibuloko.

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



Rekanyani zwi tevhelaho.

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



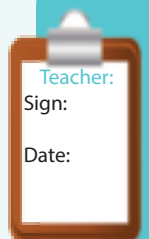
Rekanyani zwi tevhelaho.

|                         |                      |                        |                      |                        |                      |
|-------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| 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 |                            |  |



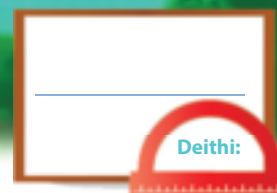
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20





## 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 ṛwale.

$$3 + \square = 8$$

$$4 + \square = \square$$


Tandululani zwi tevhelaho.

Ni nga kha ḁi ita nyolo uri i ni thuse.



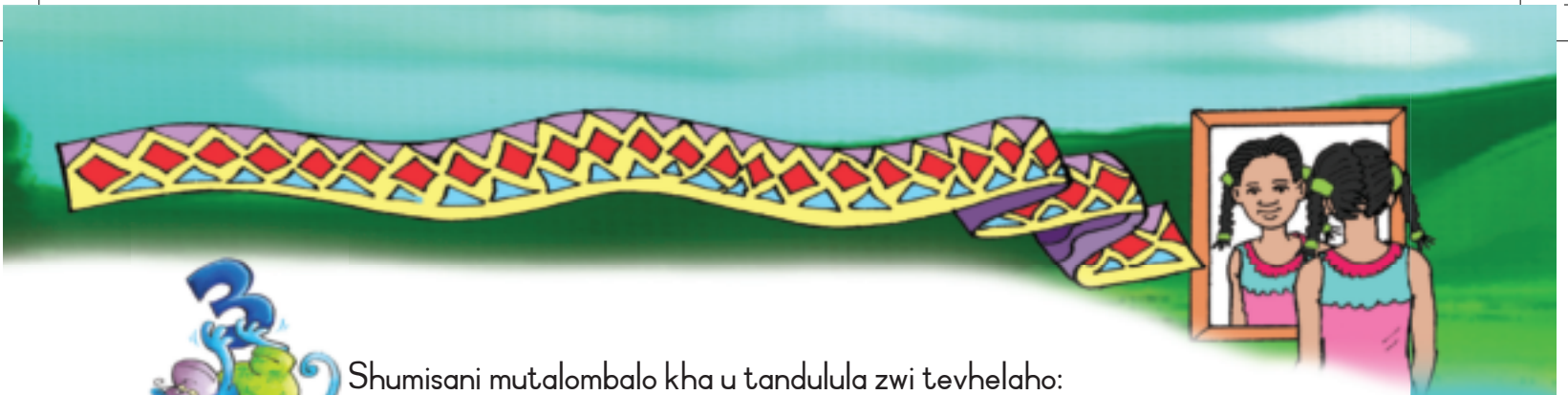
Lerato o vha e na maswiri a 4. Peter a mu fha maswiri a 13.

U na maswiri mangana zwino?

Mandla u na khirayoni dza 5. Anne u na khirayoni dza 8.

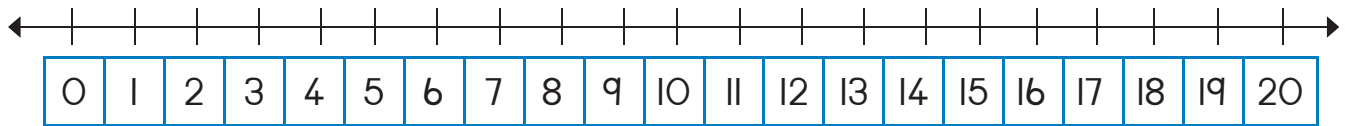
Ndi nnyi a re na kharayoni ṭhukhu?



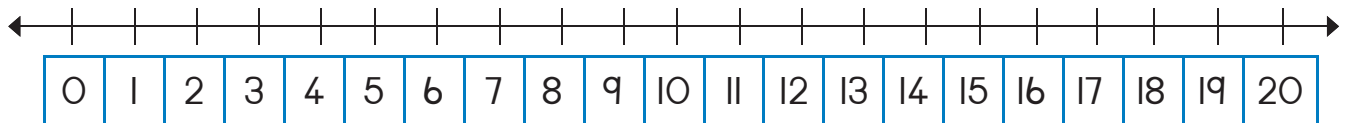


Shumisani mutalombalo kha u tandulula zwi tevhelaho:

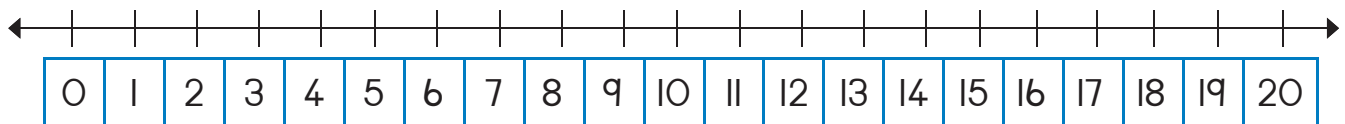
Thandi u na mimavhulu midala ya 6 na ya lutombo 9.  
U na mimavhulu mingana?



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 |
|----|----|----|----|----|

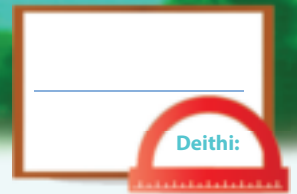
Tangedzelani nomboro i re khulwane  
kha 76 nga 2.

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



11 12 13 14 15 16 17 18 19 20





## Nomboro zwadzo



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

Sipho




Lerato



2

John



3

Peter




Ann





Vha oleni vho  
ima ntsha 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 vuvhili 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 vhuḁumi ndi lutswuku.

Ndunzhedzo ya vhulungu hanga.



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



Ndi tshivhumbeo tshifhio tshi re tsha:

|          |  |          |  |
|----------|--|----------|--|
| Vhuna    |  | Vhusumbe |  |
| Vhutānu  |  | Vhutāhe  |  |
| Vhuvhili |  | Ufhedza  |  |
| Vhuraru  |  | Vhurathi |  |



Itani zwi tevhelaho:



Khalarani tshitendeledzi tsha u thoma nga muvhala mutswuku.



Khalarani tshitendeledzi tsha vhutānu nga muvhala wa tādā.



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:

11

12

13

14

15

16

17

18

19

20



83



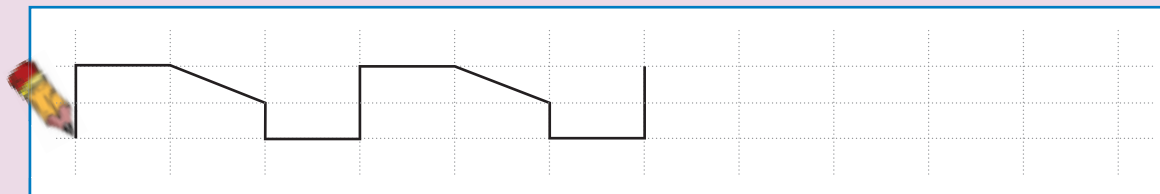


Deithi:

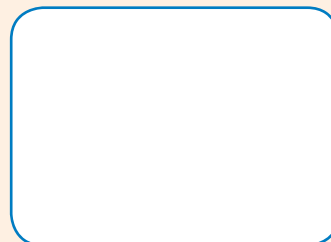
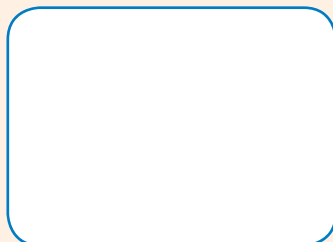
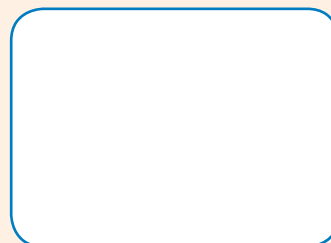
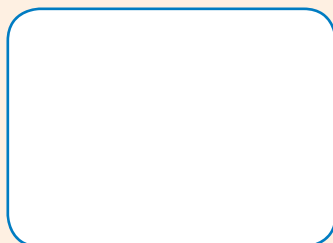
## Zwithu na zwivhumbeo

Mvusuludzo:

Mvusuludzo: Fhedzisani phetheni.



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



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





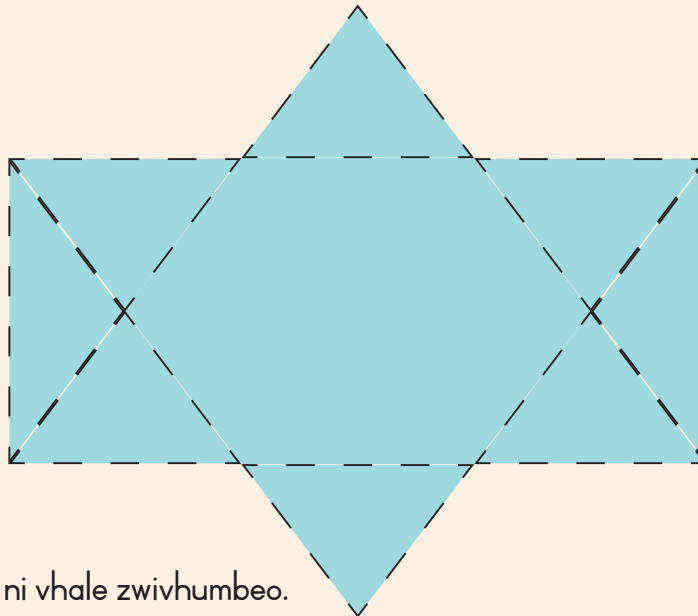
Tevhedzelani ipfi ni ole tshithu.

bogisi

bola



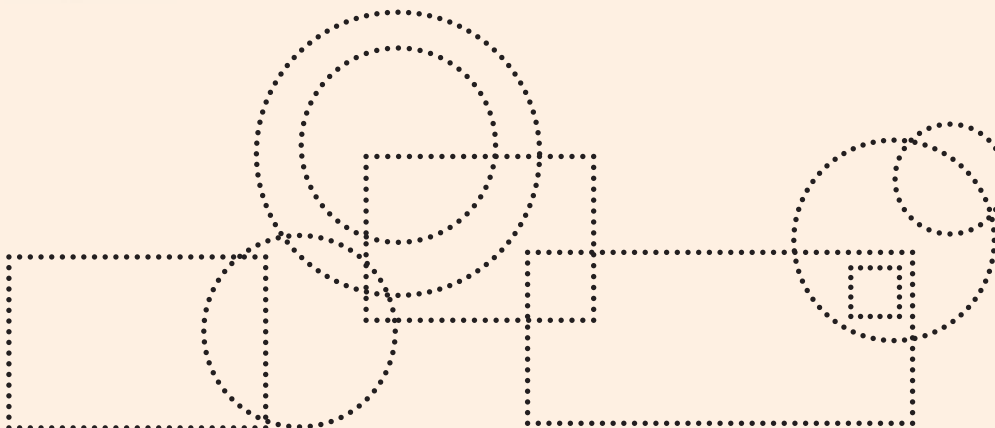
Vhalani thiraiengele dzothe ni nwale nomboro.



Phindulo:



Tevhedzelani ni vhale zwivhumbeo.



Zwitendeledzi



Zwikwea



11 12 13 14 15 16 17 18 19 20





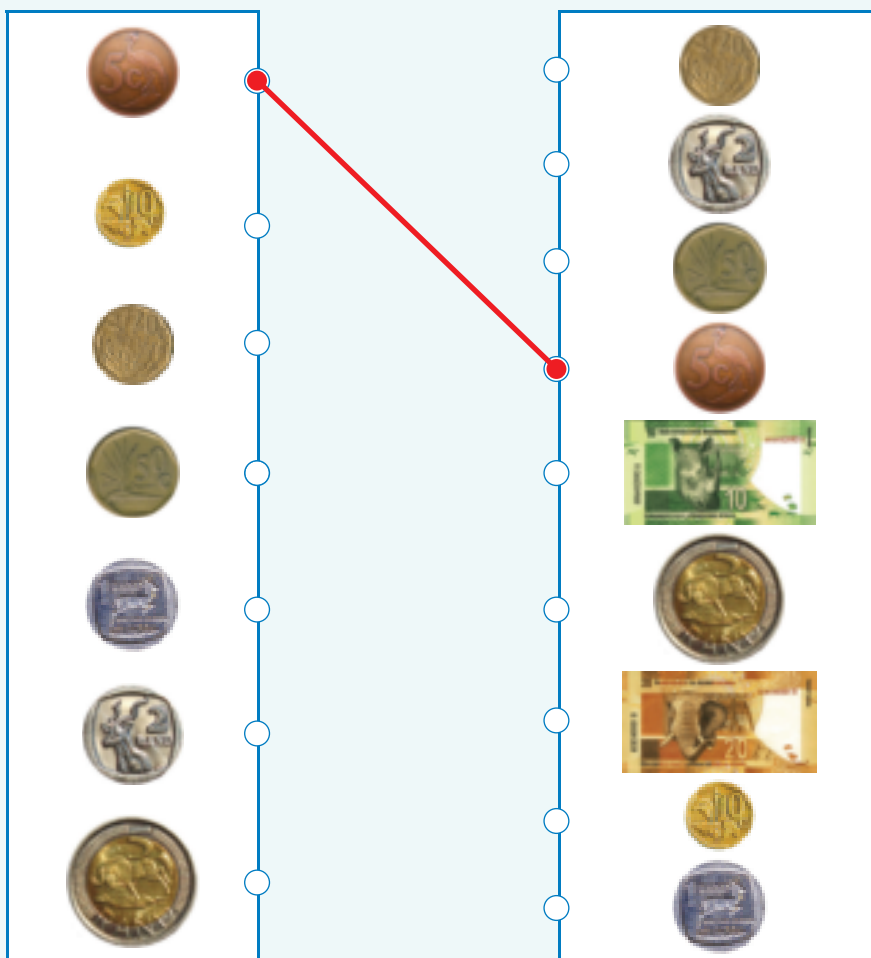
Deithi:

## 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 f'ha zwi tevhelaho:

|     |  |                                                                                                                                                       |
|-----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| R10 |  | <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"/> |



Tusani R2.



$$R10 - R2 = R8$$



Tusani R5.



$$R10 - R5 = R5$$



Ni nga ola tshangano nngana dzo fhambanaho 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: \_\_\_\_\_



11 12 13 14 15 16 17 18 19 20



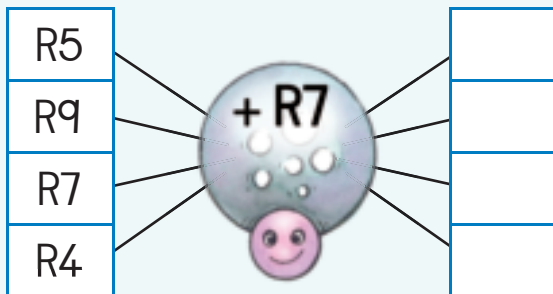


## Tshelede inwe hafhu

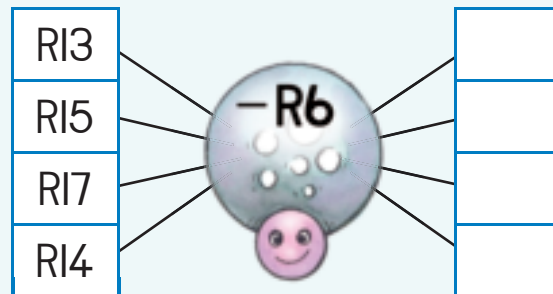
Themo ya 4



Rekanyani.



Rekanyani.



Ñwalani 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 ñwale phindulo.

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





Lavhelesani tsumbo ni fhedzise dzo salaho.

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



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

Mbudziso i ri mini?

---



---

Nwalani nomboro.

---

Nwalani mbalo ni i shume.

---



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

Mbudziso i ri mini?

---



---

Nwalani nomboro.

---

Nwalani mbalo ni i shume.

---



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?

---



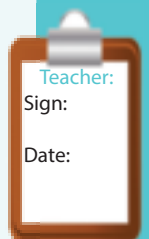
---

Nwalani nomboro.

---

Nwalani mbalo ni i shume.

---



Teacher:

Sign:

Date:



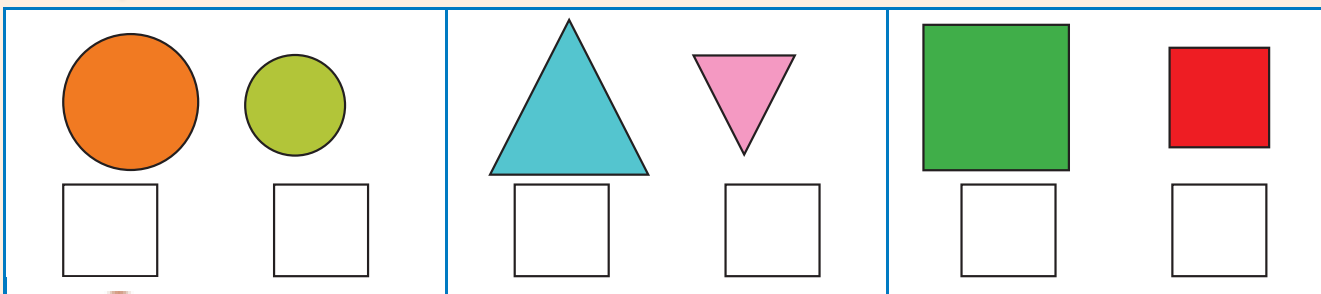


## Zwivhumbeo zwa 2-D

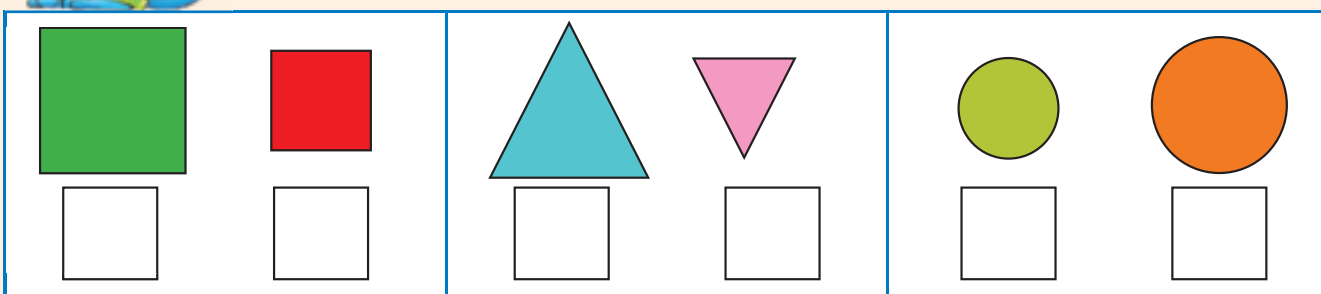
Themo ya 4



Itani thiki kha tshivhumbeo tshitukusa tshibulokoni tshinwe na tshinwe.

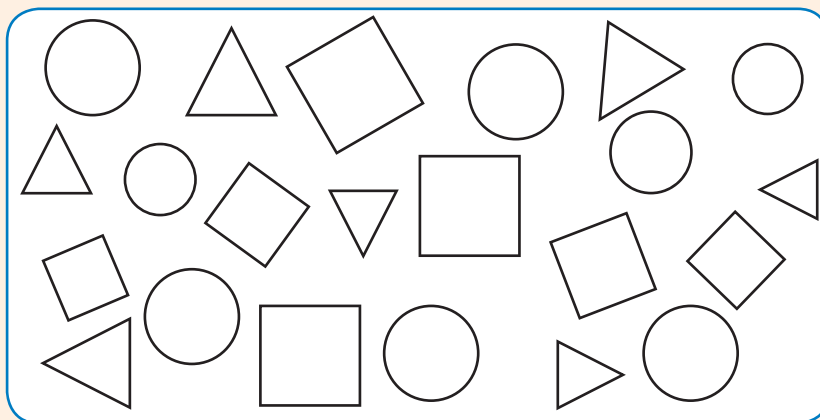


Itani thiki kha tshivhumbeo tshihulwanesa tshibulokoni tshinwe na tshinwe.

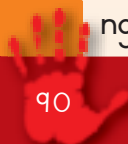
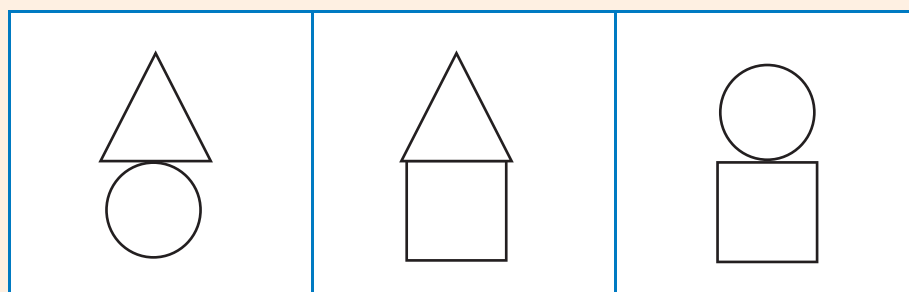


Khalarani:

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

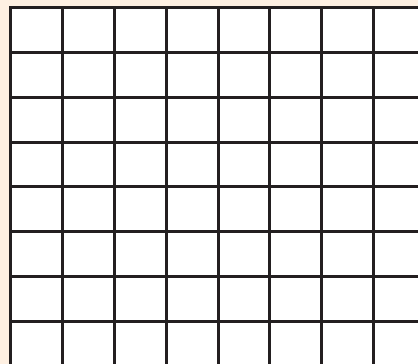
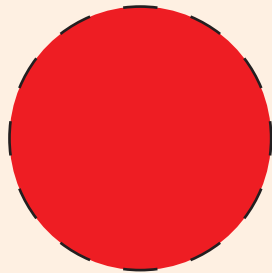
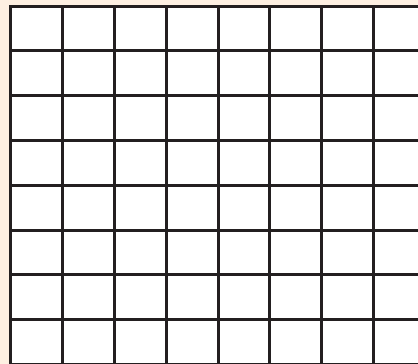
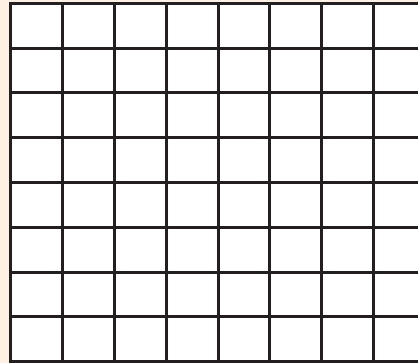
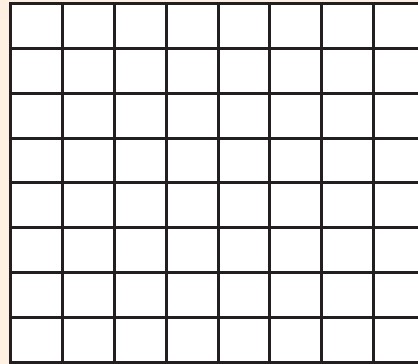
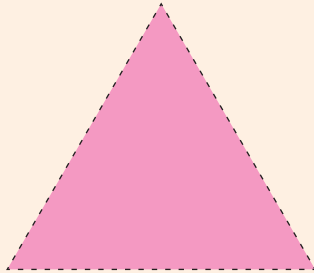


Itani tshifanyiso ni tshi shumisa zwivhumbeo. Ro thoma tshifanyiso tshinwe na tshinwe nga zwivhumbeo zwivhili.



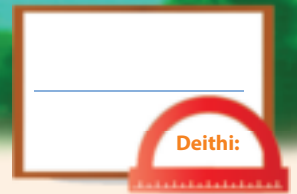


Olani zwivhumbeo kha giridi.  
Shumisani zwikwea zwiṭuku uri zwi ni thuse.



Teacher:  
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Date:

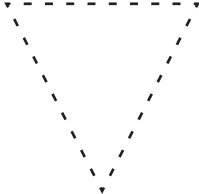
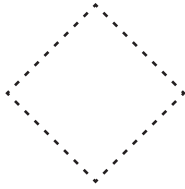




# Zwivhumbeo zwa 2-D – vhurumbutswititi na vhurumbu ha zwipulumbu

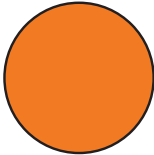
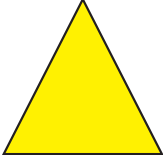


Tevhedzelani zwivhumbeo zwi tevhelaho.

|                                                                                                     |                                                                                                    |                                                                                                 |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>thiraiengele   | <br>zwitendeledzi | <br>zwikwea  |
| <br>zwitendeledzi | <br>thiraiengele | <br>zwikwea |



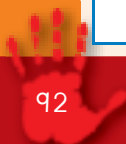
Itani thiki ni tshi sumbedza uri tshivhumbeo tshi na vhurumbutswititi kana vhurumbu ha zwipulumbu.

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



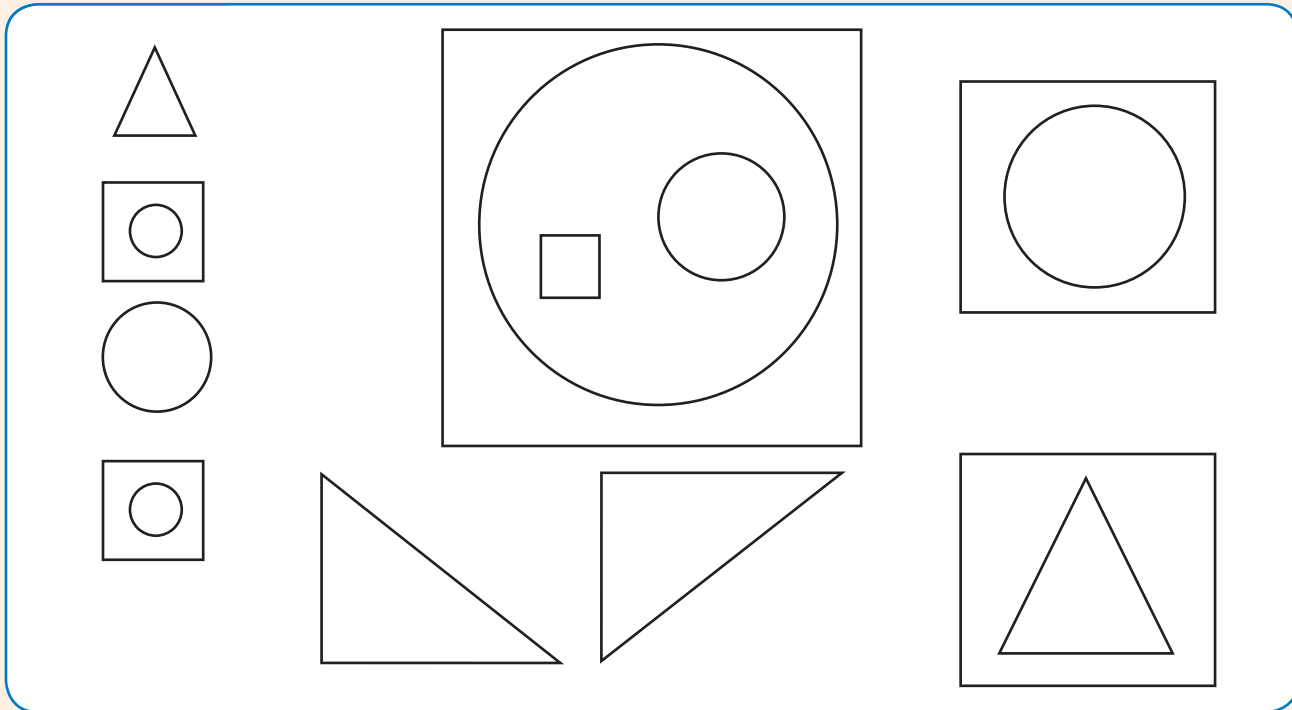
Olani tshivhumbeo nga:

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| vhurumbutswititi                         | vhurumbu ha zwipulumbu                   |
| <br><br><br><br><br><br><br><br><br><br> | <br><br><br><br><br><br><br><br><br><br> |





Vhalani tshivhalo tsha zwitendeledzi, zwickwea na thiraiengele.



Zwitendeledzi



Zwickwea



Thiraiengele



Wanani tshifanyiso kha magazini tsha tshithu tshi re na:

vhurumbu ha zwipulumbu

vhurumbutswititi



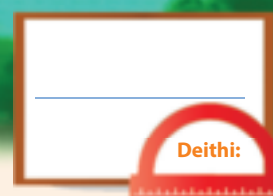
Teacher:

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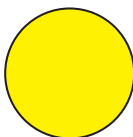
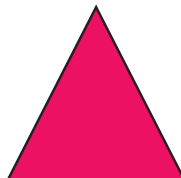
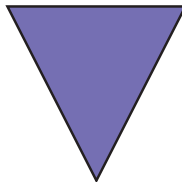
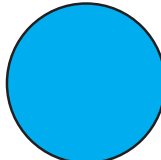




# Zwiṇwe zwivhumbeo zwa 2-D

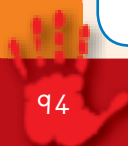


Bulani madzina a zwivhumbeo zwi tevhelaho:

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

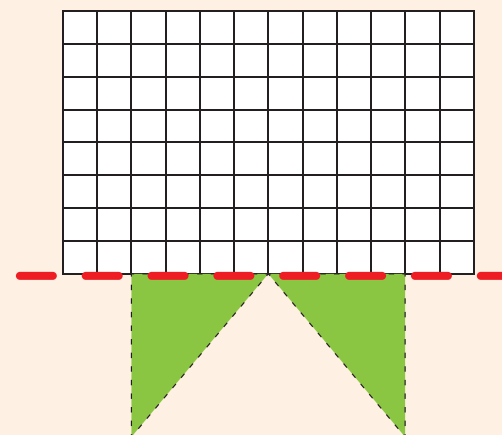
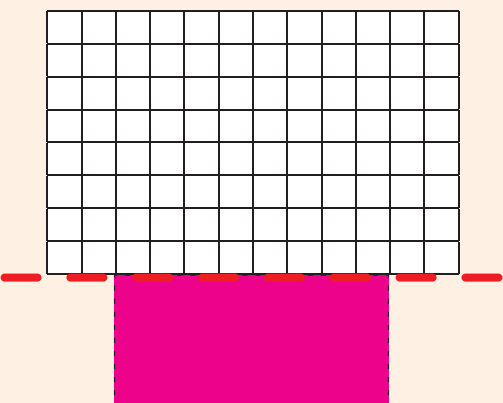
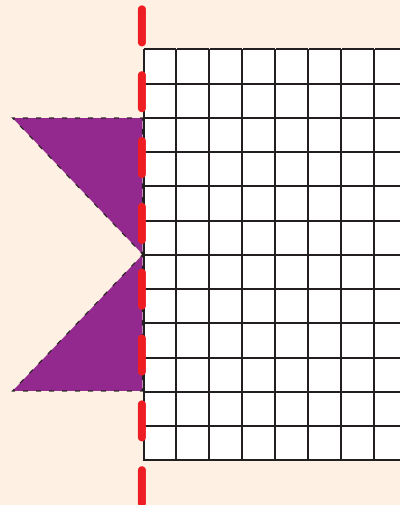
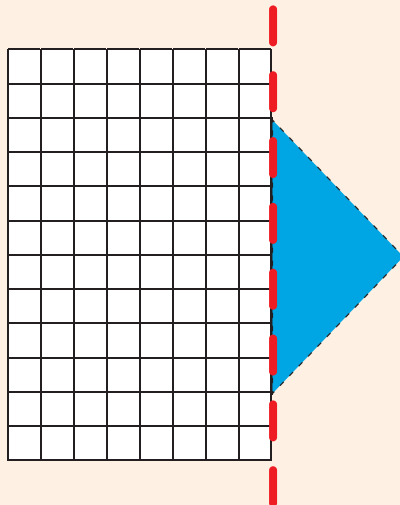
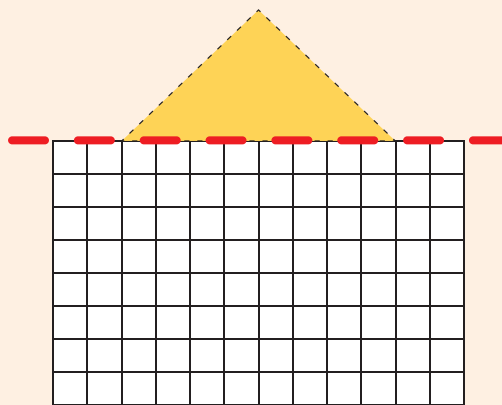
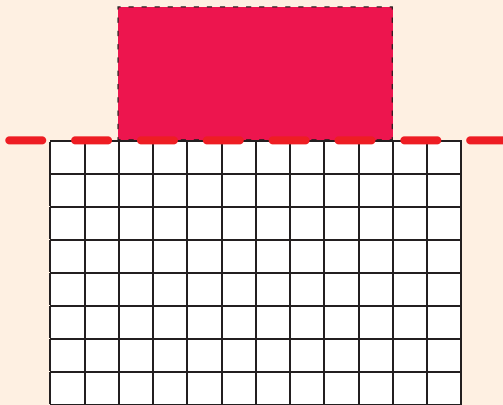


Olani tshifanyiso tshaṇu inwi muṇe ni tshi shumisa zwitendeledzi, thiraiengele na zwikwea fhedzi.





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



Zwoṭhe zwi na vhurumbutswititi na vhurumbu ha tshipulumbu.



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

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

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





# Zwigwada zwa ṭhanu u swika kha 20

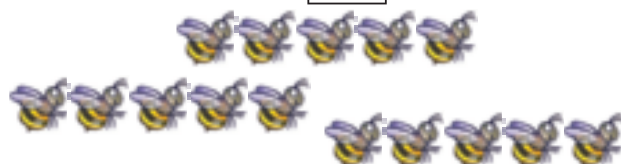


Itani tshitendeledzi ni tshi vhumba zwigwada zwa ṭhanu.  
Ni na zwigwada zwingana zwa ṭhanu?

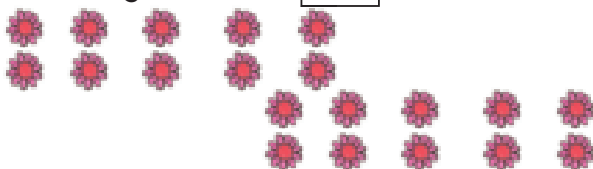
tshigwada tsha  tsha zwa 5



zwigwada zwa  zwa zwa 5



zwigwada zwa  zwa zwa 5



zwigwada zwa  zwa zwa 5



Vhalani tshivhalo tsha minwe. Nwalani phindulo yaṅu.



$$5 + 5 + 5 =$$



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



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

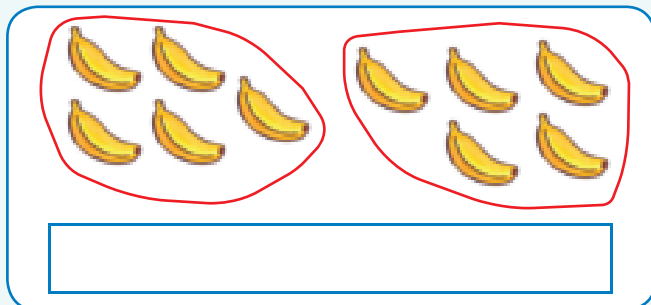
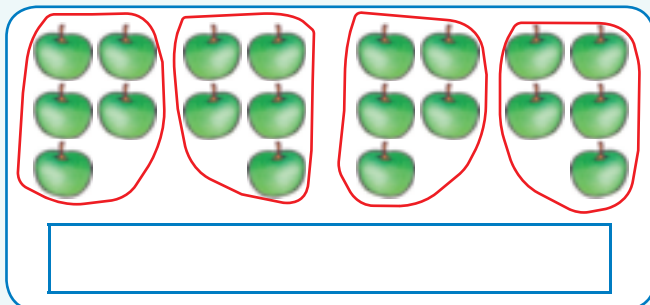
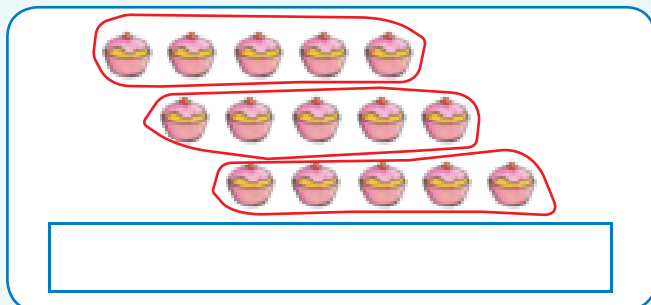
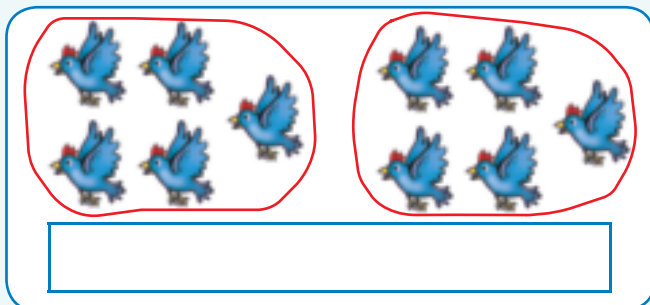


$$5 + 5 + 5 + 5 + 5 + 5 =$$





Nwalani fhungombalo la zwi tevhelaho:



Fhindulani mbudziso.



Ni kona u vhona khoini nngana?

I nwaleni sa fhungombalo:



Nwalani nomboro dzi no khou tshela.

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



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



11 12 13 14 15 16 17 18 19 20



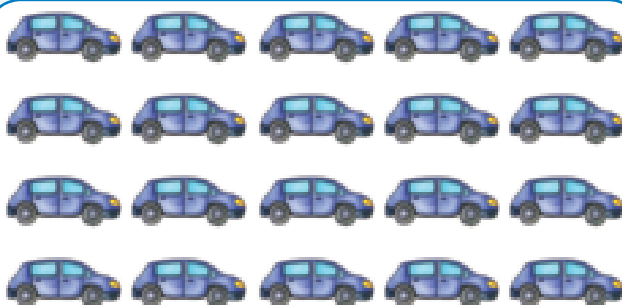


# Thanu – ndovhololo ya mutanganyo wa u swika kha 20

Itani zwigwada zwa zwiṭanuzwiṭanu ni ṛwale fhungombalo.











Olani zwigwada zwa zwivhumbeo ni tshi sumbedza mafhungombalo.

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

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





Nwalani fhungombalo la zwi tevhelaho.

|           |  |  |  |  |  |  |  |  |  |
|-----------|--|--|--|--|--|--|--|--|--|
|           |  |  |  |  |  |  |  |  |  |
| $5 + 5 =$ |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| I  | 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:



11 12 13 14 15 16 17 18 19 20



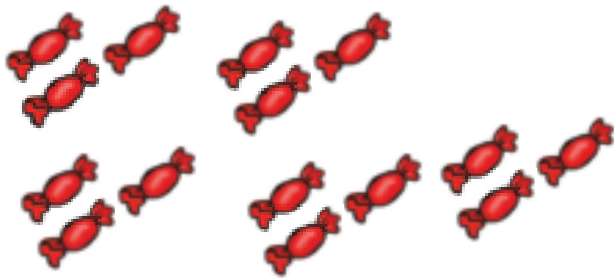
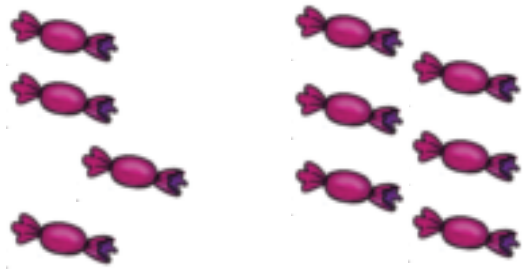
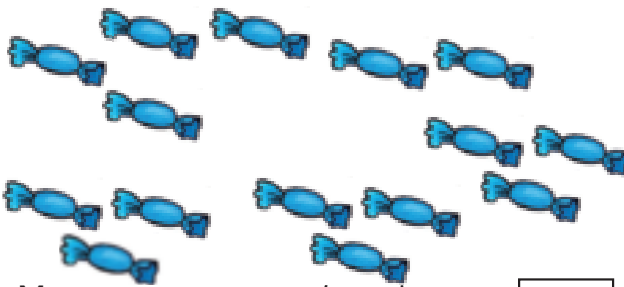
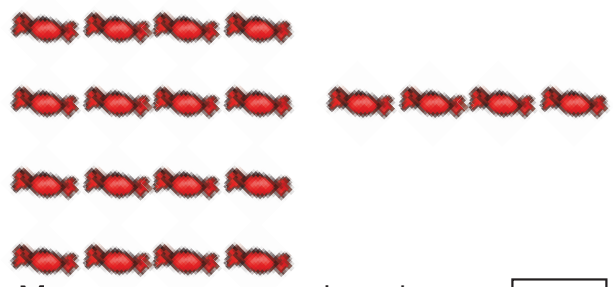
## U kovhekana u swika kha 20

Themo ya 4



Kovhelani khonani ṭhanu mālegere.

Muṛiwe na muṛiwe wavho u ḍo wana mālegere mangana?

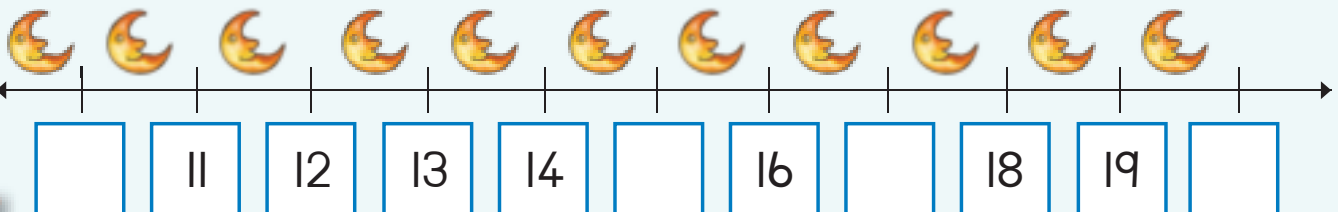
Muṛiwe na muṛiwe wavho u ḍo  
wana mālegere a
Muṛiwe na muṛiwe wavho u ḍo  
wana mālegere a
Muṛiwe na muṛiwe wavho u ḍo  
wana mālegere a
Muṛiwe na muṛiwe wavho u ḍo  
wana mālegere a


Khaḷarani nyandiso dza ṭhanu.

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



N̄walani nomboro dzi no khou ṭahela.



0 1 2 3 4 5 6 7 8 9 10



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

Kovhelani vhana vhatanu zwivhaleli zwa 10.

Kovhelani vhana vhatanu zwivhaleli zwa 6.

Ho sala zwivhaleli zwa .

Ho sala zwivhaleli zwa .

Kovhelani vhana vhatanu zwivhaleli zwa 11.

Kovhelani vhana vhatanu zwivhaleli zwa 16.

Ho sala zwivhaleli zwa .

Ho sala zwivhaleli zwa .



Nwalani fhungombalo la zwi tevhelaho:



$$5 + 5 =$$







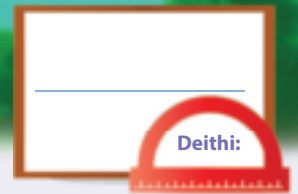


Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20





# Phetheni dza nomboro – t<sub>x</sub>hanu u swika kha 100



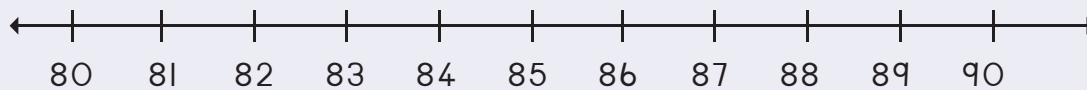
Fhedzisani phetheni nga u khalara nyandiso dza t<sub>x</sub>hanu.

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

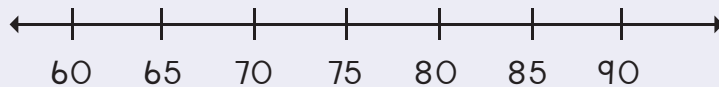


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

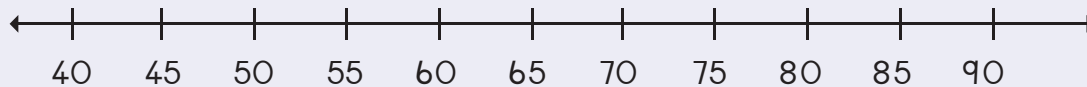
86, 88, 90



70, 75, 80



55, 60, 65, 70

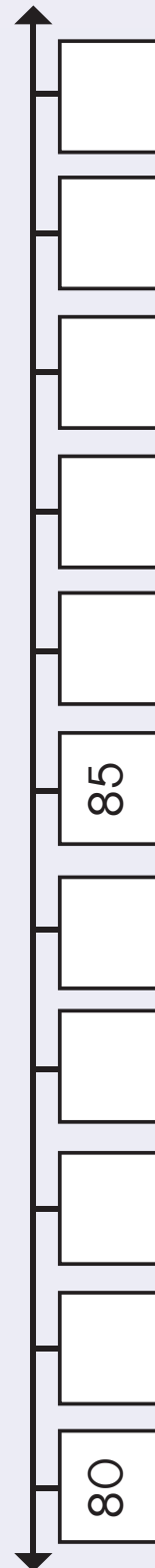
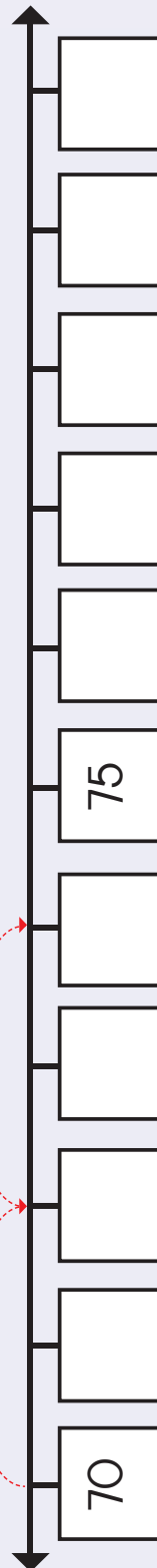
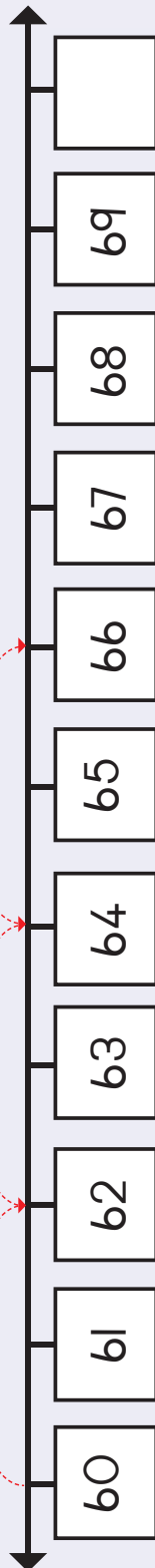


Shumisani watshi kha u sumbedza u vhala miminete nga mit<sub>x</sub>anumit<sub>x</sub>anu.

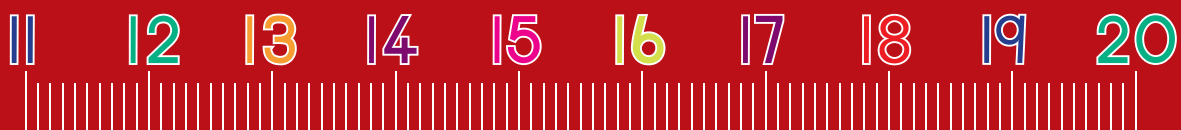




Gerani nomboro dzi no khou t̃ahela kha Tshigeriwa 2  
ni dzi vhee kha mutalombalo.  
Ni ite na u fhedzisa dzihupu.



Teacher:  
Sign:  
Date:







# Vhuimo na mbonalo

Themo ya 4



Livhanyani phanda na murahu ha tshipuka tshinwe na tshinwe.

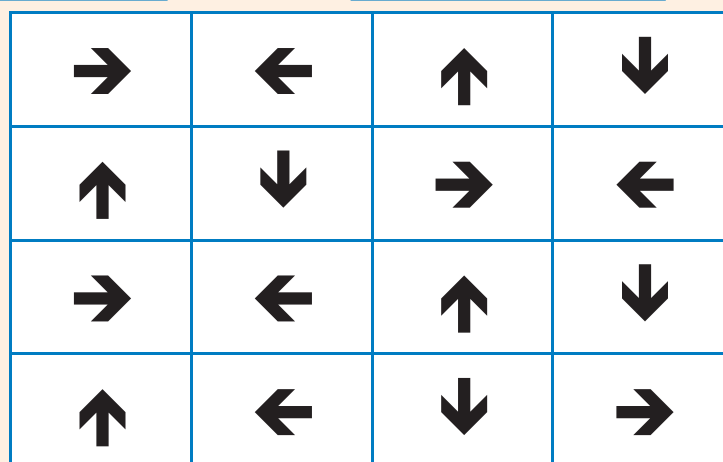
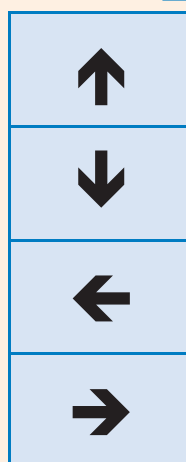
Phanda



Murahu



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





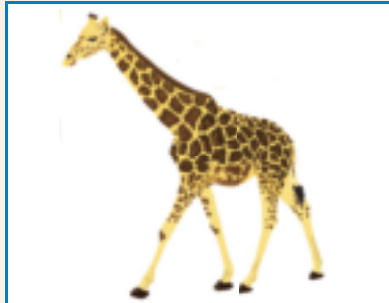
Khalarani mbonalo yone.



Mbonalo ya nga nt̥ha

Mbonalo ya nga matungo

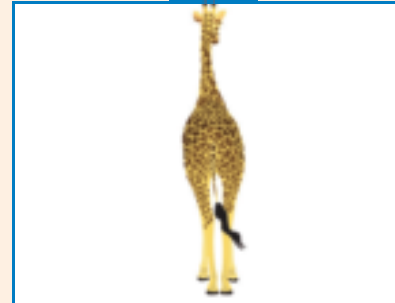
Mbonalo ya nga phanda



Mbonalo ya nga nt̥ha

Mbonalo ya nga matungo

Mbonalo ya nga phanda



Mbonalo ya nga murahu

Mbonalo ya nga matungo

Mbonalo ya nga phanda



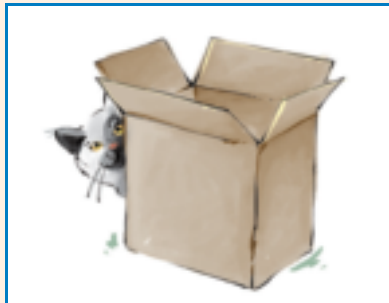
Tshimange tshi ngafhi?  
Khalarani phindulo i re yone.



Nga murahu

Nga phanda

Tsini na



Nga murahu

Nga phanda

Tsini na



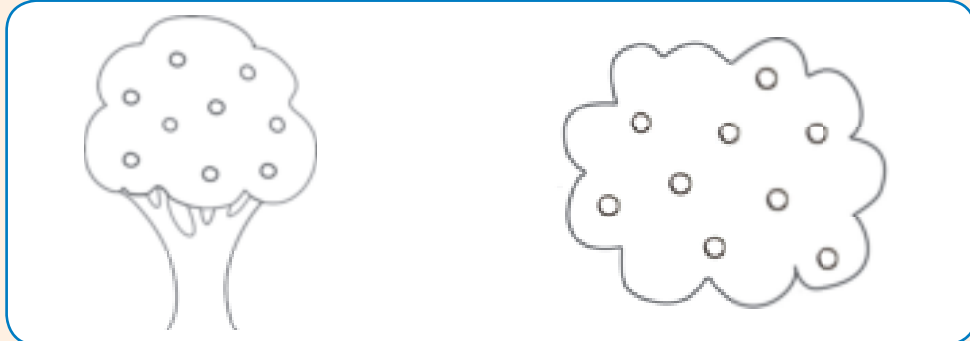
Nga murahu

Nga phanda

Tsini na

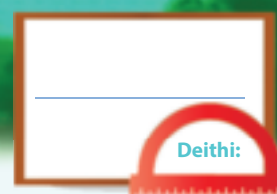


Lavhelesani zwifanyiso  
zwa muri.  
Khalarani mbonalo ya  
nga nt̥ha.



Teacher:  
Sign:  
Date:



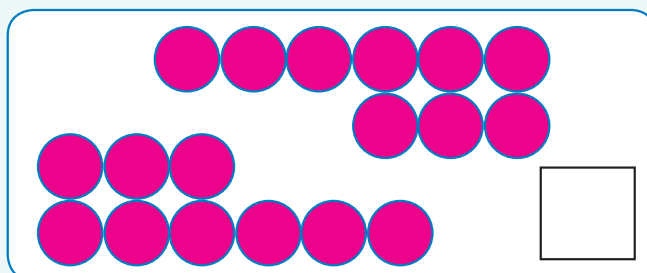
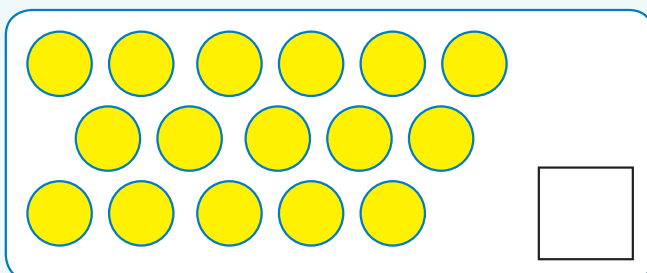
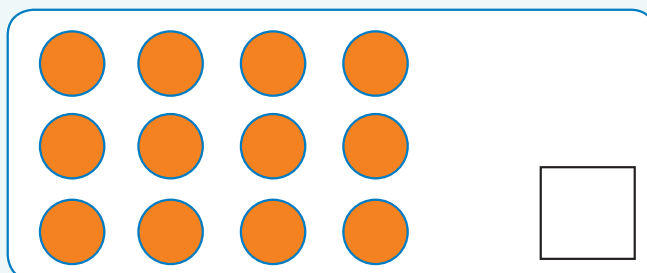
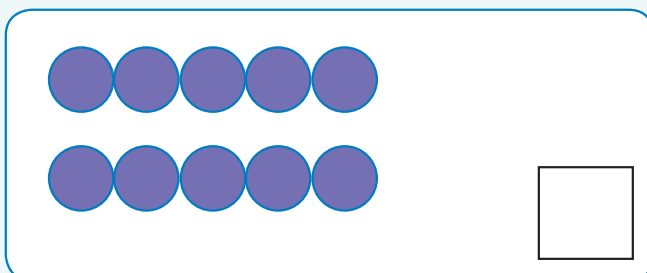
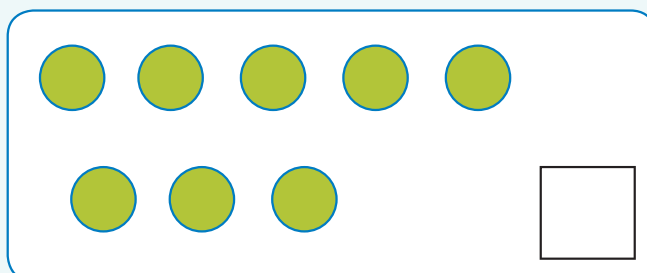
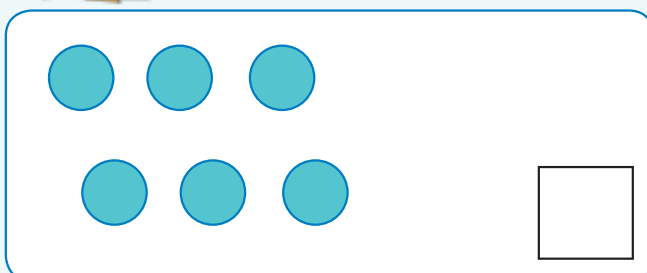


# Zwigwada zwa mbili u swika kha 20

Themo ya 4



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



Itani zwigwada zwa zwivhili. Olani zwigwada.

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |



Fhindulani mbudziso.



Hu na zwiṇoni zwingana?

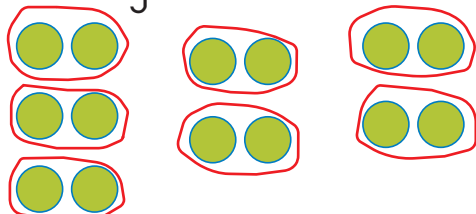
Ni nga ita zwigwada zwingana zwa zwiṽhili?

Ṓwalani fhungombalo.



Itani  
zwitendeledzi ni  
tshi vhumba zwi  
tevhelaho.

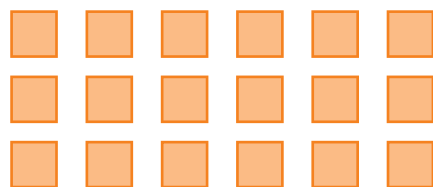
Zwigwada zwa 7 zwa 2



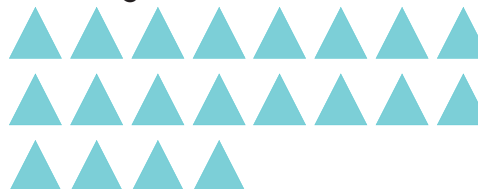
Zwigwada zwa 8 zwa 2



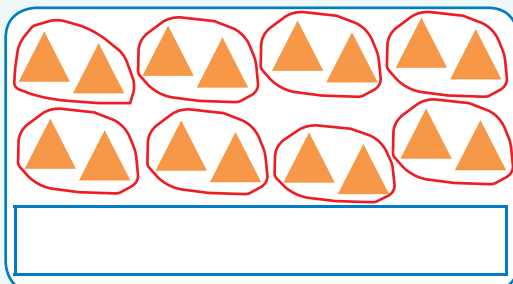
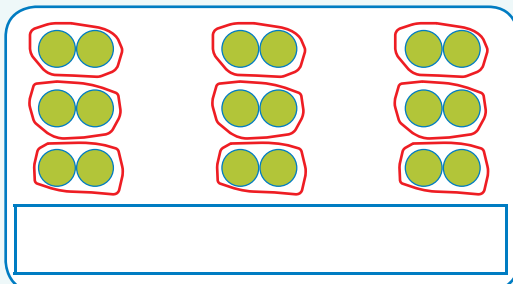
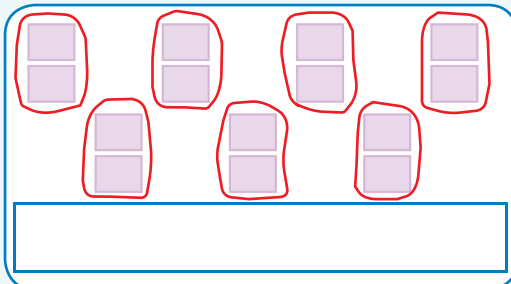
Zwigwada zwa 9 zwa 2



Zwigwada zwa 10 zwa 2



Ṓwalani  
fhungombalo la  
zwi tevhelaho.



Teacher:  
Sign:  
Date:

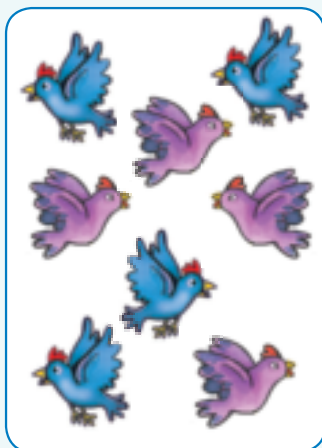


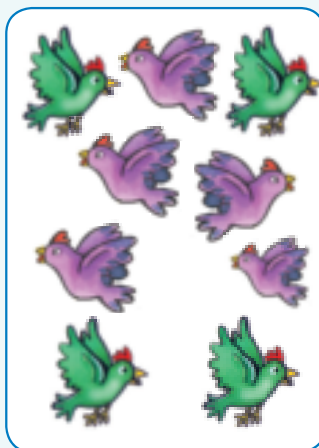
# Mbilimbili – ndovhololo ya mutanganyo u swika kha 20

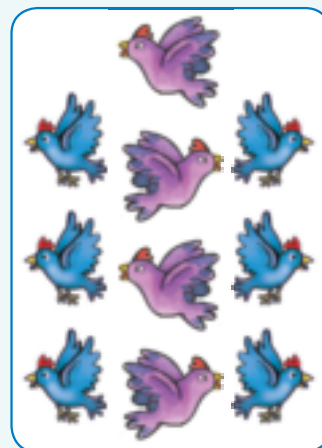


Hu na milenzhe mingana? Nwalani fhungombalo la tshifanyiso tshinwe na tshinwe.











Olani zwivhumbeo zwa zwi tevhelaho:

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



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

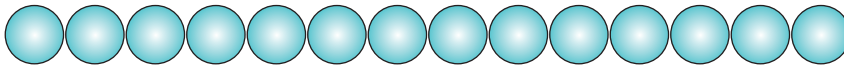
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

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

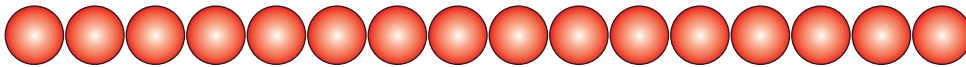


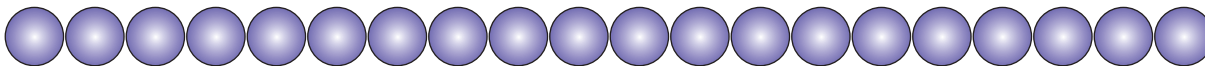


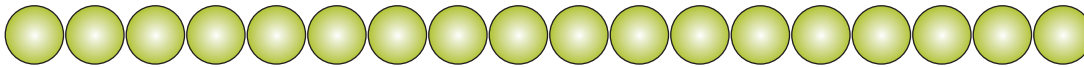
Nwalani fhungombalo la zwi tevhelaho:



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









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:



11 12 13 14 15 16 17 18 19 20



# Phetheni dza nomboro – mbili u swika kha 100



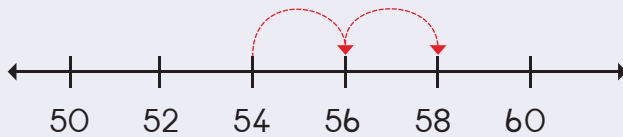
Fhedzisani phetheni nga u khalara nomboro dzone.

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

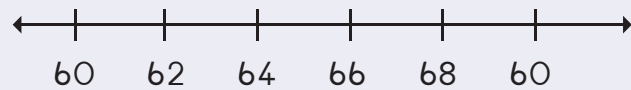


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

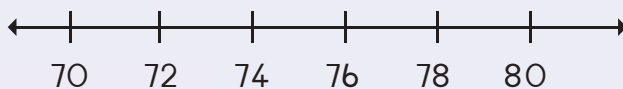
54, 56, 58



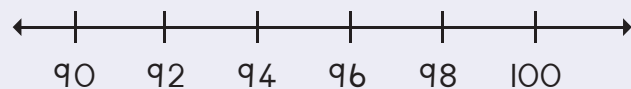
64, 66, 68



74, 76, 78



94, 96, 98

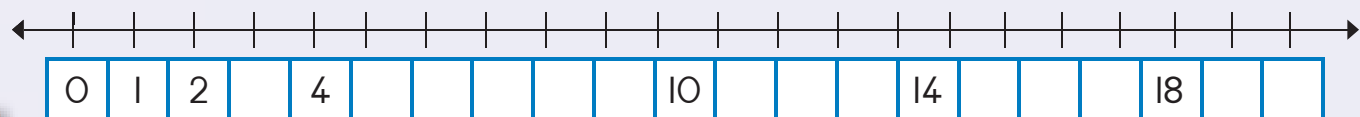


Nwalani nomboro dzi no khou tshela. Khalarani phetheni: 2, 4...

|    |  |   |  |  |  |    |  |  |    |
|----|--|---|--|--|--|----|--|--|----|
| I  |  | 3 |  |  |  | 7  |  |  | 10 |
| II |  |   |  |  |  | 17 |  |  | 20 |



Fhedzisani mutalombalo.





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

|    |    |  |    |  |    |  |    |  |    |  |
|----|----|--|----|--|----|--|----|--|----|--|
| 60 | 61 |  | 63 |  | 65 |  | 67 |  | 69 |  |
| 70 | 71 |  | 73 |  | 75 |  | 77 |  | 79 |  |
| 80 | 81 |  | 83 |  | 85 |  | 87 |  | 89 |  |
| 90 | 91 |  | 93 |  | 95 |  | 97 |  | 99 |  |



Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20



120



Deithi:

# Phetheni dza nomboro – mbili u swika kha 100

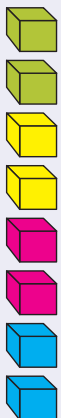
Themo ya 4



Ni a kona u vhana phetheni ya zwivhilizwivhili?



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



4

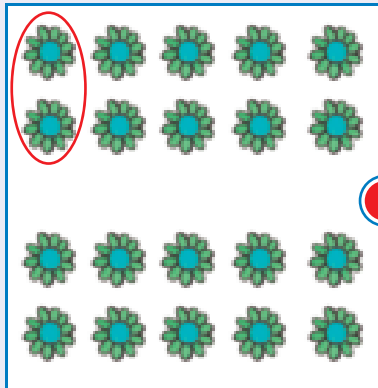


112

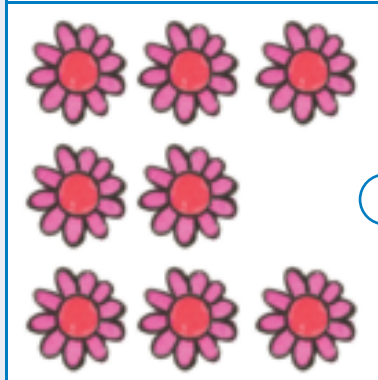
0 1 2 3 4 5 6 7 8 9 10



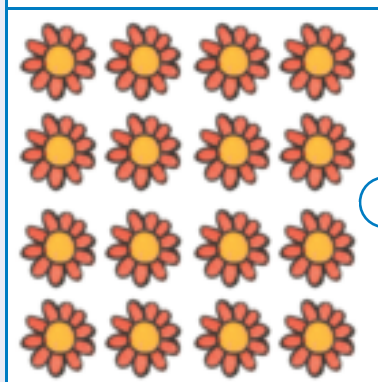
Livhanyani zwigwada zwa zwivhilizwivhili na fhungombalo nge na tala mutalo.



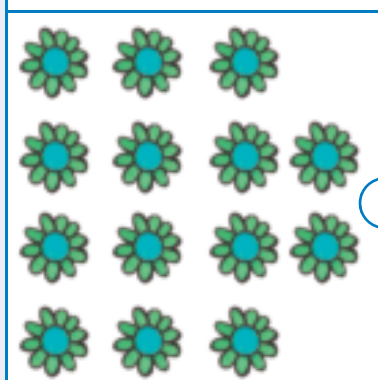
$$2 + 2 + 2 + 2 = 8$$



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



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



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



Teacher:  
Sign:  
Date:



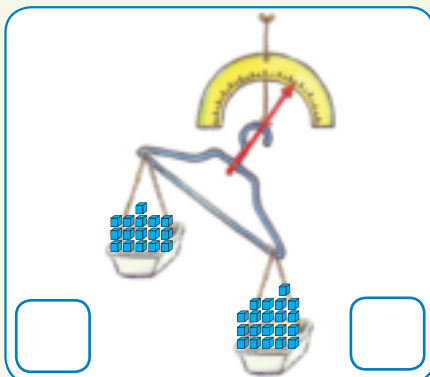
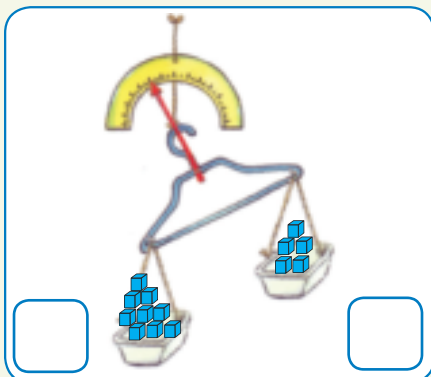
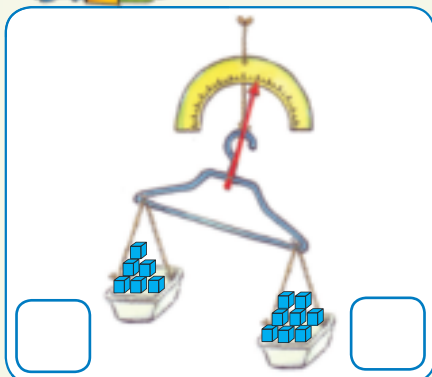


## Tshileme

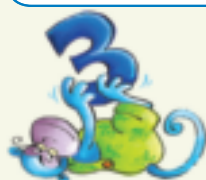
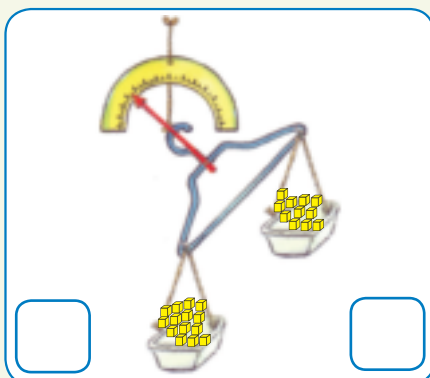
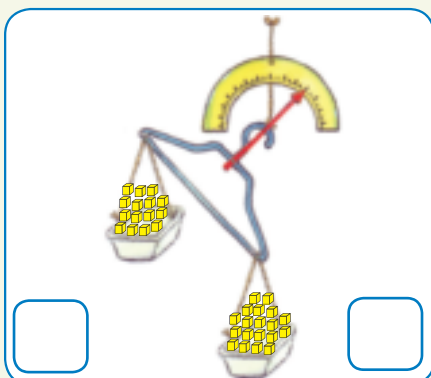
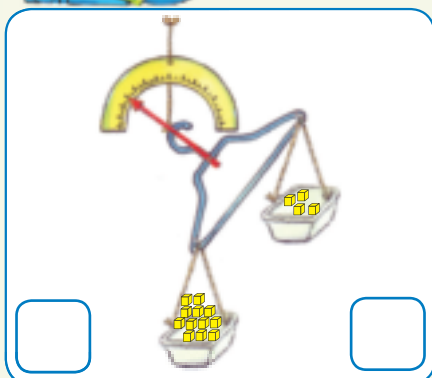
Themo ya 4



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



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

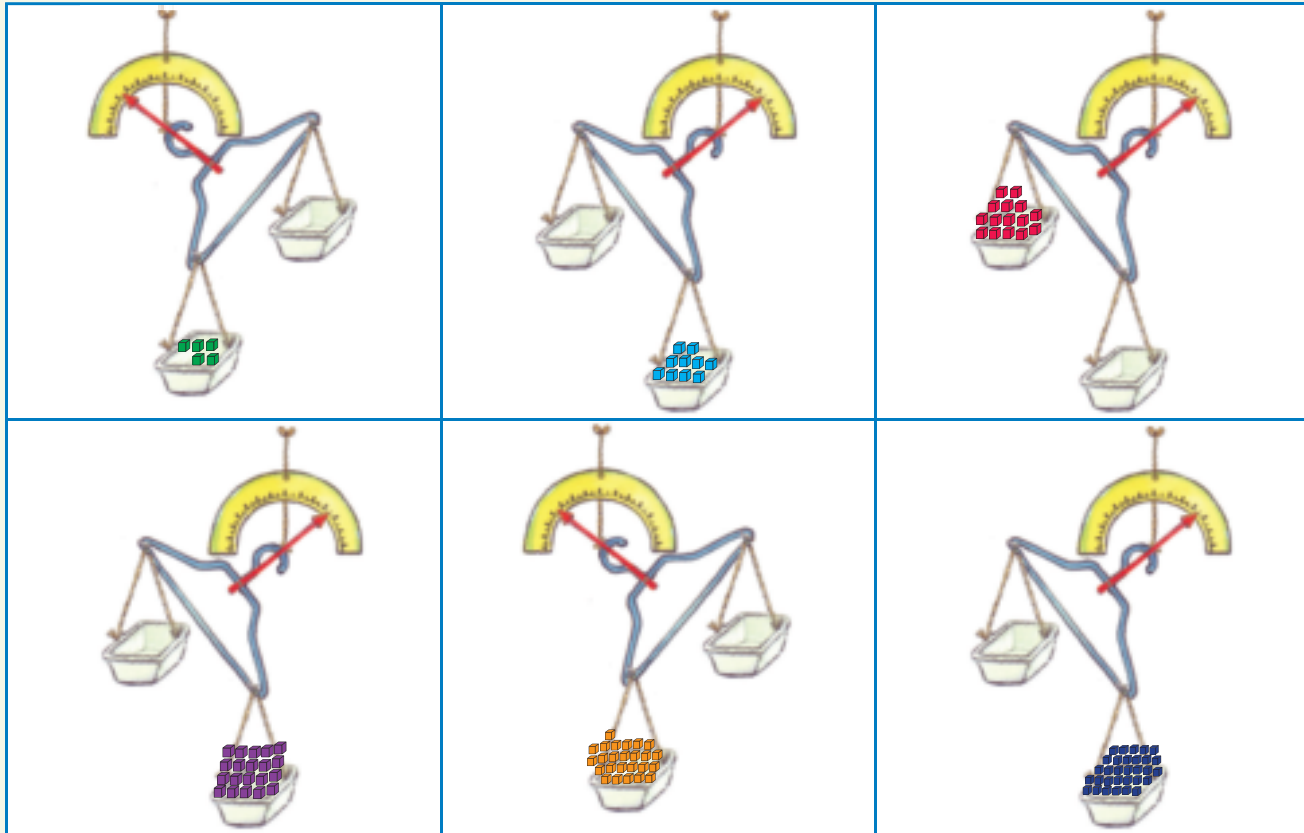


Vhalani uri hu na zwibuloko zwingana. Ni wane uri hu todea zwinwe zwibuloko zwingana zwa u engedza nga nthu u itela u balantsa thoyi. Ro ni vhudza uri thoyi i lemela zwibuloko zwingana.





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



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

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

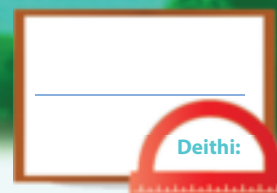


Teacher:

Sign:

Date:



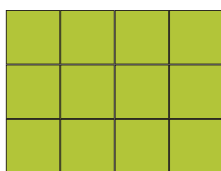


# U inga kavhili

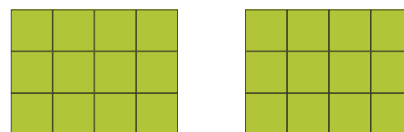


Fhindulani zwi tevhelaho:

Hu na zwikwea 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 maḁuvha mangana kha vhege?

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |

Hu na maḁuvha 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  | = |   |



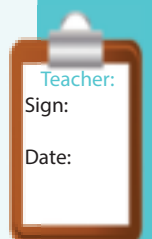
Nwalani phindulo.

|                                   |     |
|-----------------------------------|-----|
| Nyingakavhili ya <b>mbili</b> ndi | ina |
| Nyingakavhili ya <b>raru</b> ndi  |     |
| Nyingakavhili ya <b>ina</b> ndi   |     |
| Nyingakavhili ya <b>thanu</b> ndi |     |
| Nyingakavhili ya <b>rathi</b> ndi |     |
| Nyingakavhili ya <b>sumbe</b> ndi |     |

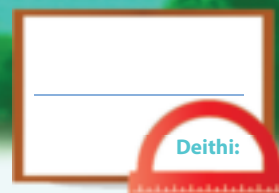


Fhedzisani thebulu.

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



# 123



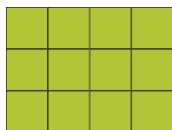
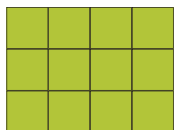
## U hafula

Themo ya 4

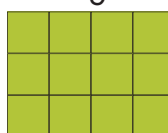


Findulani zwi tevhelaho:

Hu na zwikwea zwingana?




Hu na zwikwea zwingana zwino?




Ri ri hafu ya 24 ndi 12.

Hu na milenzhe mingana?




Hu na milenzhe mingana zwino?




Ri hafu ya 12 ndi

Hu na zwikitili zwingana?




Hu na zwikitili zwingana zwino?




Ri hafu ya 20 ndi

Hu na maḁuvha mangana kha vhege mbili?

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | M | T | W | T | F | S | S | M | T | W | T | F | S |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Hu na maḁuvha 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 <b>10</b> ndi | 5 |
| Hafu ya <b>12</b> ndi |   |
| Hafu ya <b>14</b> ndi |   |
| Hafu ya <b>16</b> ndi |   |
| Hafu ya <b>18</b> ndi |   |



○

□

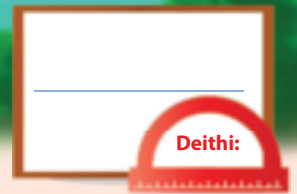
△

Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20

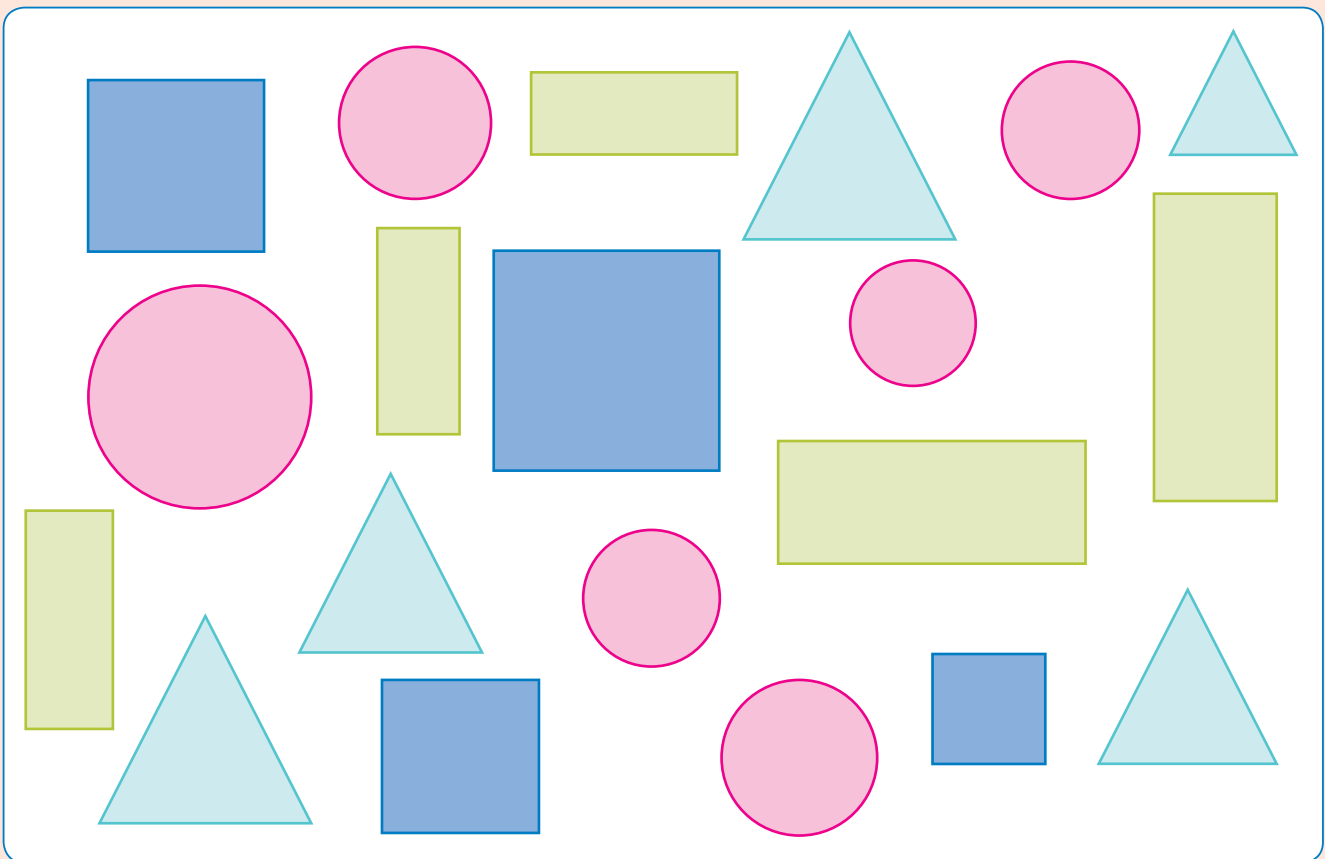




# Data



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



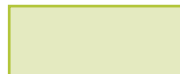
1. Hu na zwiikwea zwingana?



2. Hu na thiraiengele nngana?



3. Hu na rekithiengele nngana?



4. Hu na zwiendeledzi zwingana?





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

Mutshelo une ra u funesa?

Khii = ☐



|                      |         |         |        |         |
|----------------------|---------|---------|--------|---------|
|                      |         |         |        |         |
| Zwi <u>t</u> iroberi | Maapula | Mapiere | Miomva | Maswiri |

|                                                                                    |  |
|------------------------------------------------------------------------------------|--|
| Ndi vhana vhangana vha no funesa zwi <u>t</u> oroberi?                             |  |
| Ndi vhana vhangana vha no funesa maapula?                                          |  |
| Ndi vhana vhangana vha no funesa mapiere?                                          |  |
| Ndi vhana vhangana vha no funesa miomva?                                           |  |
| Ndi vhana vhangana vha no funesa maswiri?                                          |  |
| Ndi mutshelo uf <hio funeswa="" nga="" no="" td="" u="" vhana?<=""><td></td></hio> |  |
| Ndi mutshelo uf <hio funeswi="" nga="" sa="" td="" u="" vhana?<=""><td></td></hio> |  |



Teacher:  
Sign:  
Date:



11 12 13 14 15 16 17 18 19 20





## Data inwe hafhu



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



Fhedzisani thebulu.

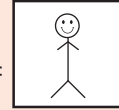
| Thoyi    | Nomboro (Tshivhalo) |
|----------|---------------------|
| Mipopi   |                     |
| Matiraka |                     |
| Thedibee |                     |
| Roboto   |                     |



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

Thoyi dzi re hone

Khii =



|        |          |          |        |
|--------|----------|----------|--------|
|        |          |          |        |
| Mipopi | Matiraka | Thedibee | Roboto |



Fhindulani mbudziso. Lavhelesani phikhithogirafu uri i ni thuse.

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



Teacher:  
Sign:  
Date:





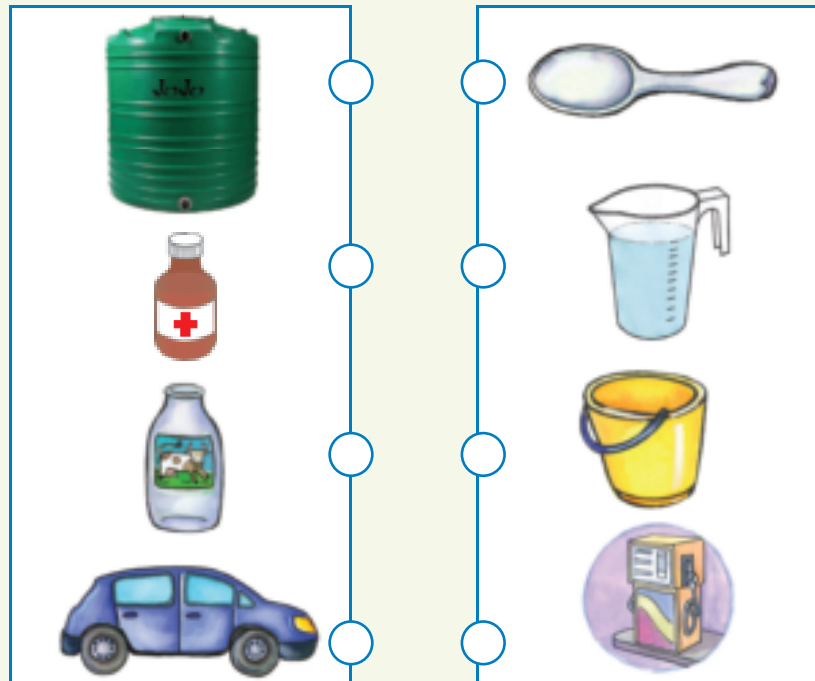


# Khaphasithi (Nqadzo)

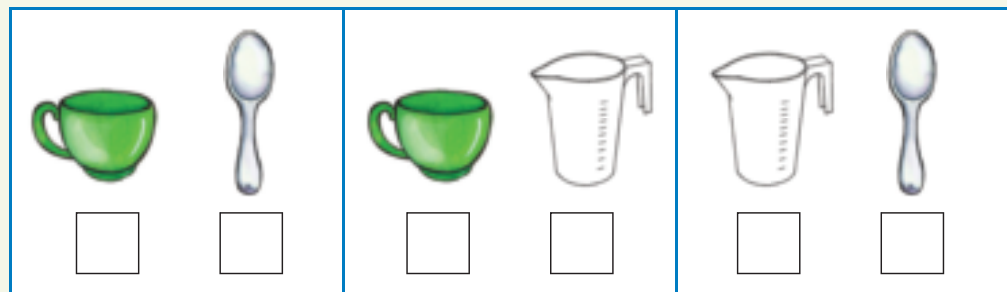
Themo ya 4



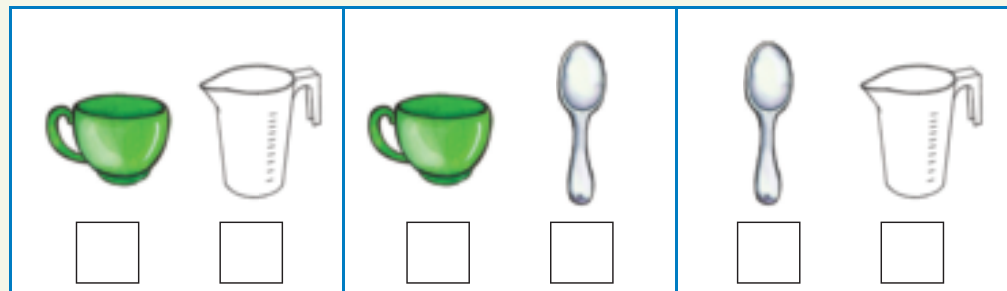
Ri ela zwiludi nga ndilade? Talani mutalo ni tshi livhanya tshithu na tshishumiswa tshone tsha u kala.



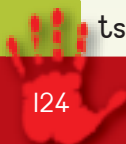
Itani thiki kha tshifaredzi (mudzio) tshi no fara zwitukutuku.



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

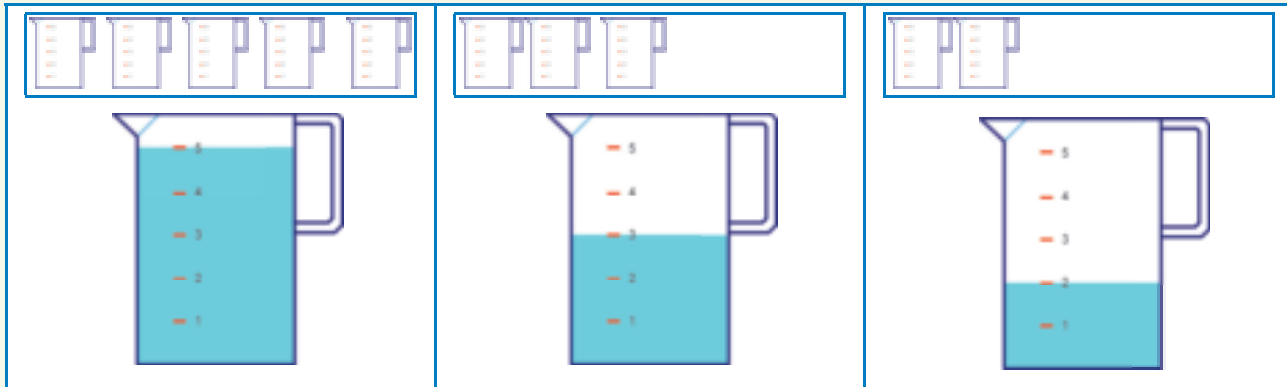


Zwifaredzi zwo dala kana ndi xoxoyo a zwi na tshithu? (a zwi na tshithu)

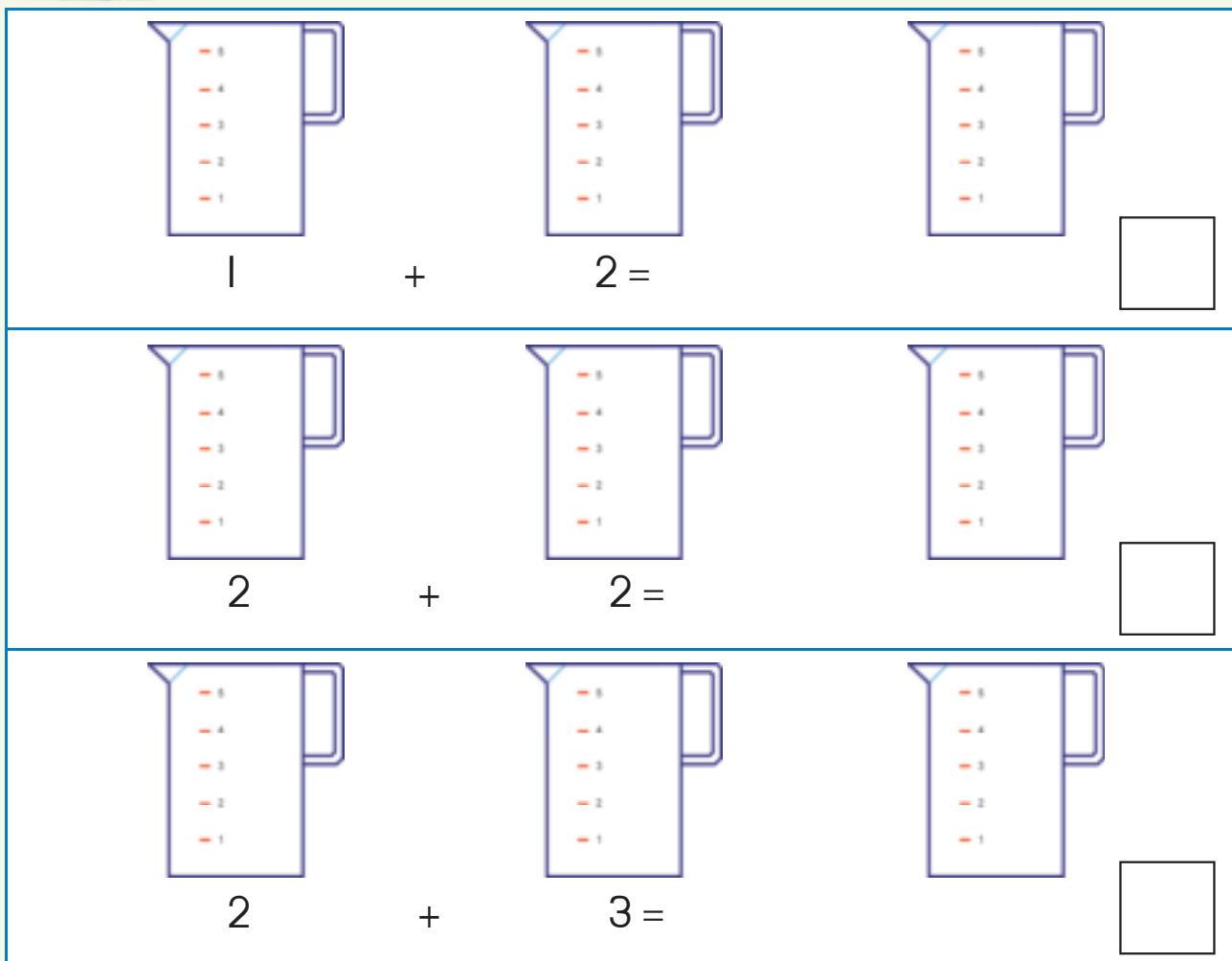




Ni tea u shumisa khaphu t̄hanu kha u ḡadza dzhege. Ndi khaphu nngana nga nt̄ha dzine na tea u shumisa kha u ḡadza idzo dziñwe dzhege mbili? Zwi oleni.



Khalarani tshivhalo tsho tsha zwilud̄i.



Teacher:

Sign:

Date:



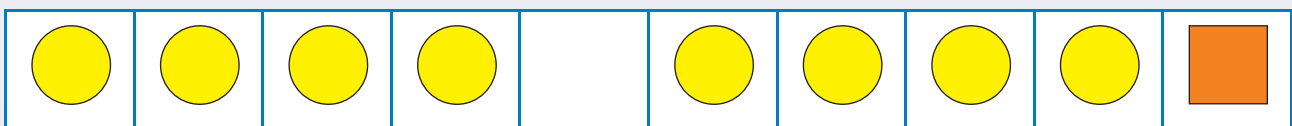
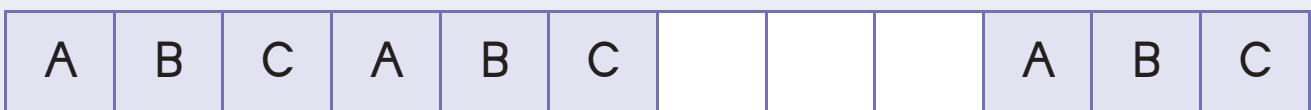
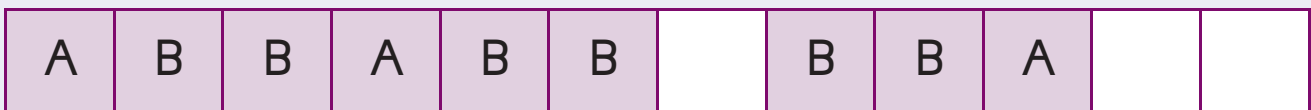
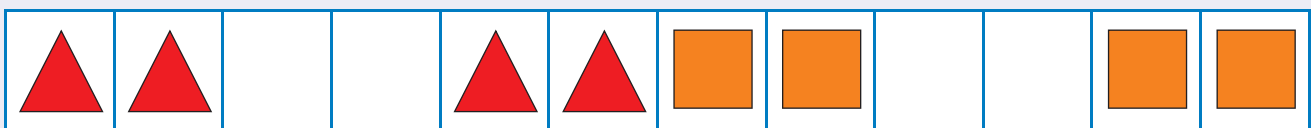
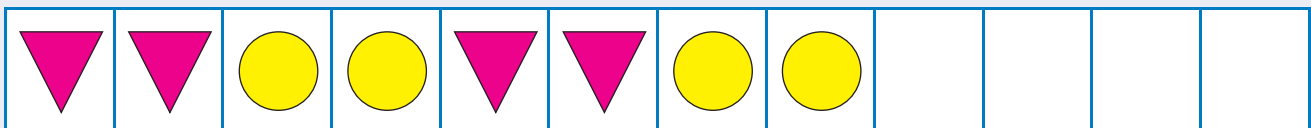
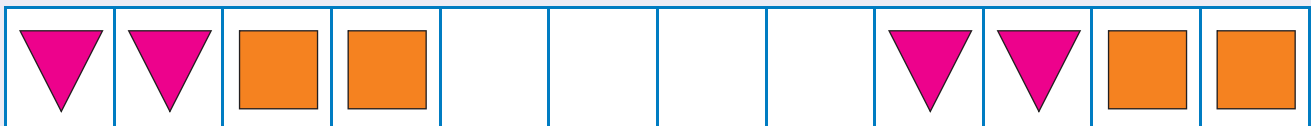
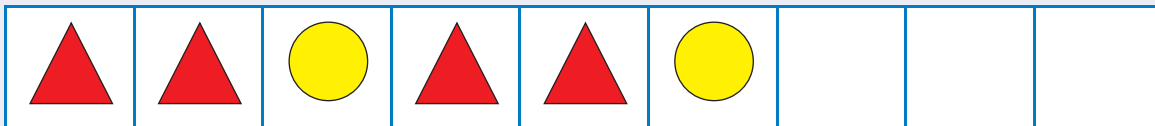


# Phetheni dza dzhometiri



Fhedzisani phetheni.

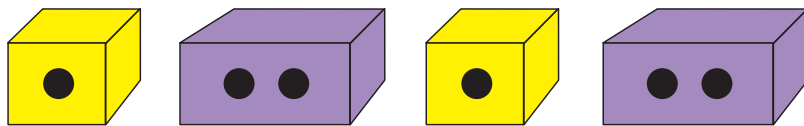
Themo ya 4

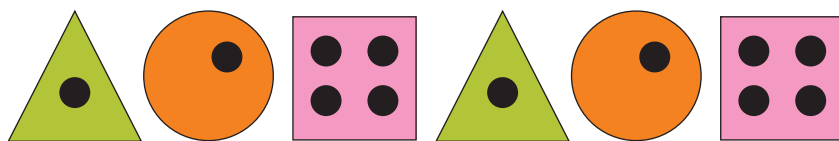


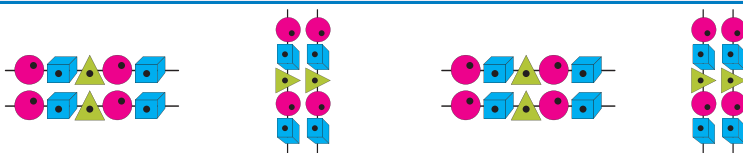


Engedzani phetheni.











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






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



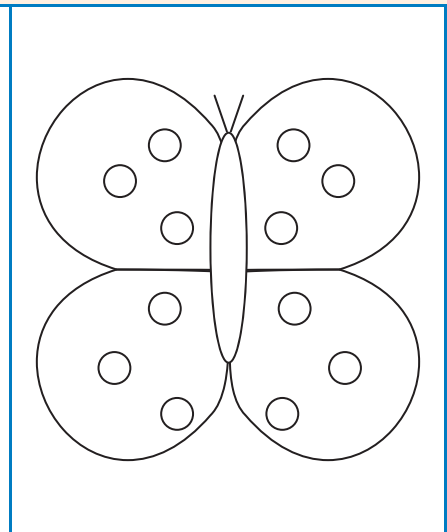
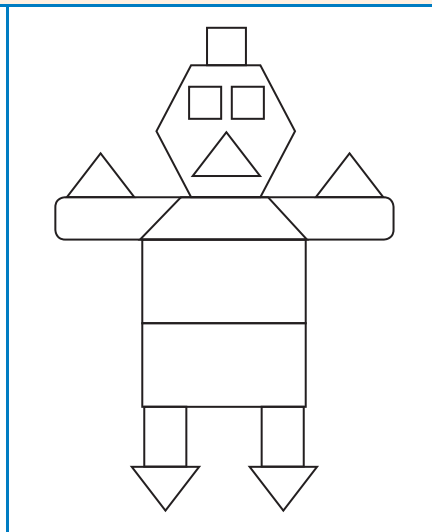
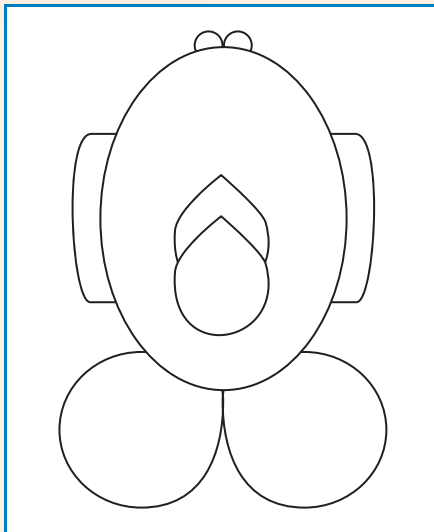


# Ndinganahuvhili

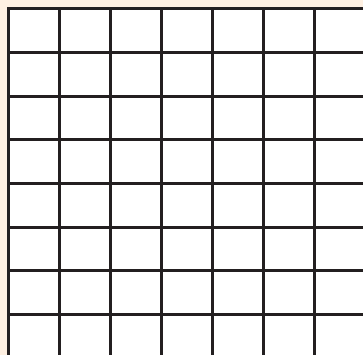
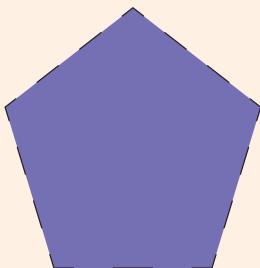
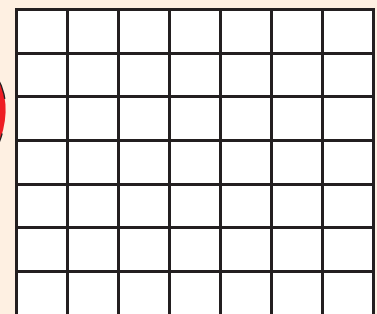
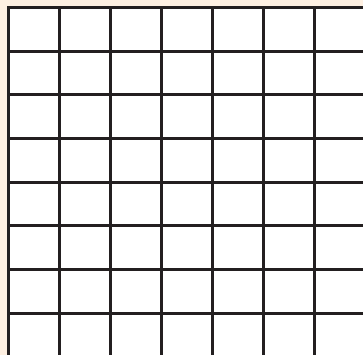
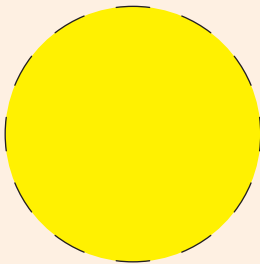
Themo ya 4



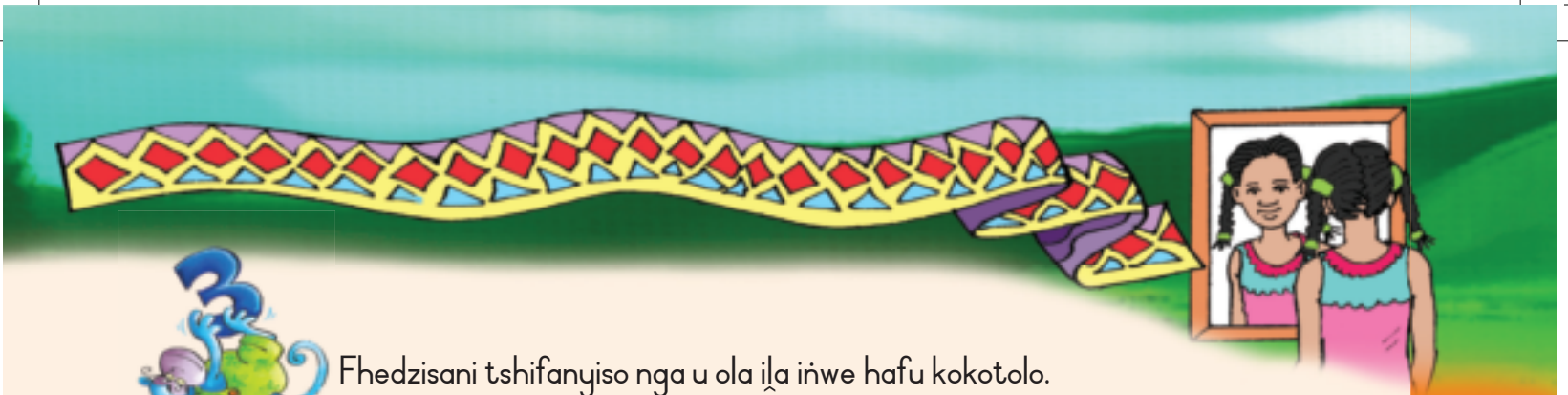
Talani mutalo wa ndinganahuvhili u no fhandula tshifanyiso tsha bva hafu mbili dzi no lingana. Khalarani hafu nthihi ya tshifanyiso tshinwe na tshinwe.



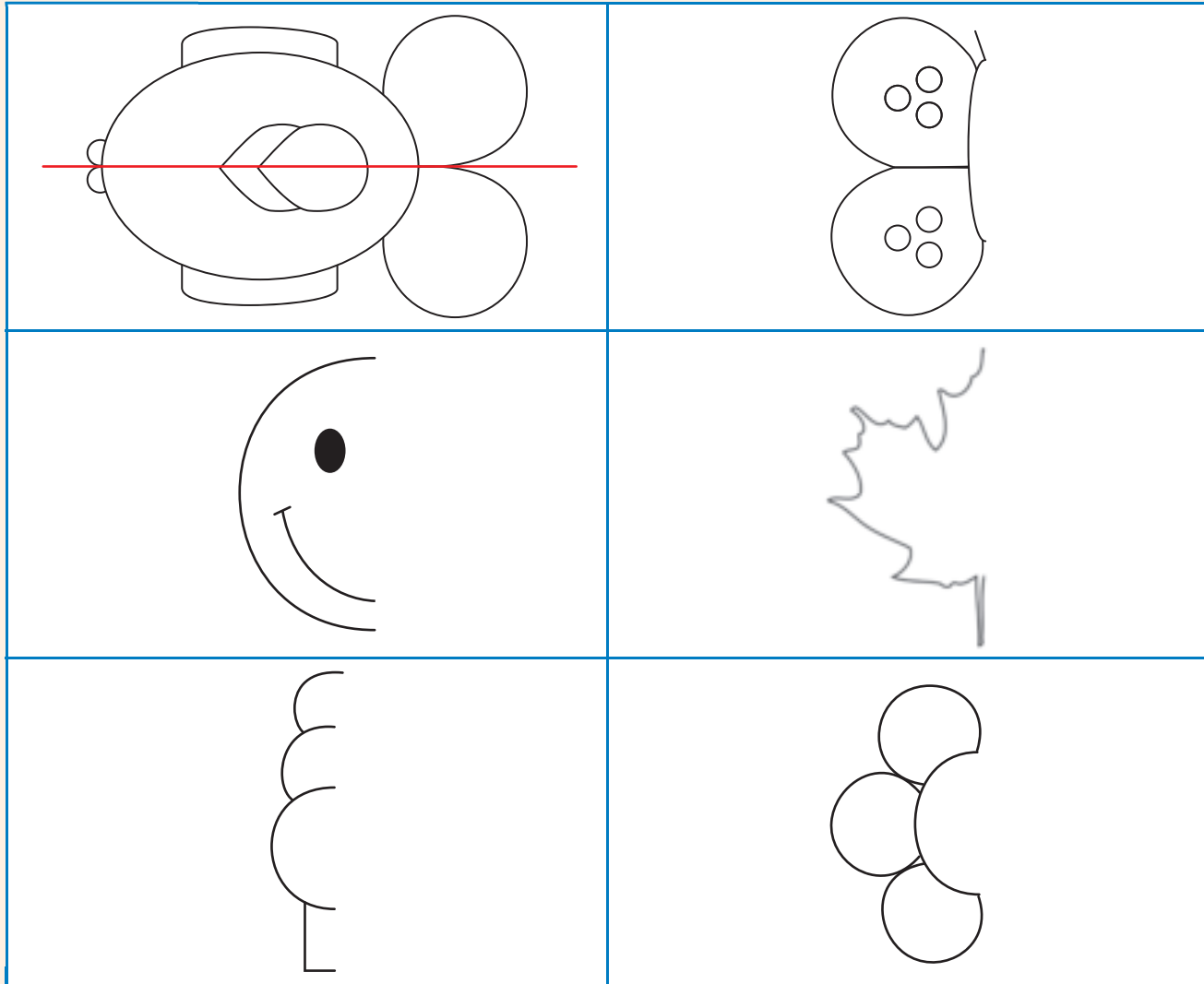
Kopololani zwivhumbeo, ni kone u tala mutalo wa ndinganahuvhili.



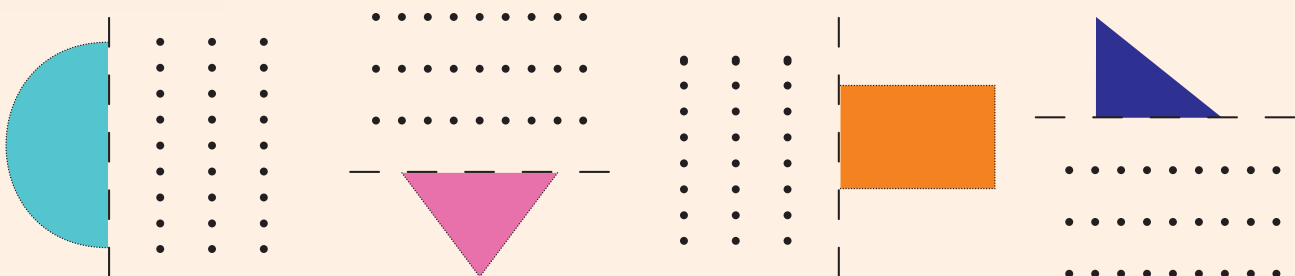




Fhedzisani tshifanyiso nga u ola iḽa inwe hafu kokotolo.



Olani iḽa inwe hafu ya tshivhumbeo.



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

# Notsi



A large 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.

# Notsi



A large sheet of white paper with horizontal blue lines and a vertical pink margin line on the left side, intended for writing notes.

# 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.



# Cut-out 1

Worksheet 79







## Cut out cards 2

### Worksheet 83

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

### Worksheet 84

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

### Worksheet 93

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

### Worksheet 115

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

### Worksheet 119

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

