

# DIVHAMBALONGA TSIVENDA

Bugu ya!  
Themo 1 & 2



## DIVHAMBALONGA TSIVENDA – Gireidi ya 3 Bugu ya!

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**basic education**

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Gireidi  
ya  
3

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MATHEMATICS IN TSIVENDA  
GRADE 3 – BOOK 1  
TERMS 1 & 2  
ISBN 978-1-4315-0013-0

THIS BOOK MAY NOT BE SOLD.

11th Edition

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| Nomb | Thoho   | Siatari |
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Vho Angie Motshekga  
Minista wa Muhasho wa  
Pfunzo ya Muteo



Vho Dr Reginah Mhaule  
Muthusaminista wa  
Pfunzo ya Muteo

Bugu idzi dzo nwalelwva vhana vha Afrika Tshipembe, mushumo wa hone wo rangiwa phanda nga Minista wa Pfunzo ya Muteo, Vho Angie Motshekga na Muthusaminista wa Pfunzo ya Muteo, Vho Dr Reginah Mhaule.

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

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

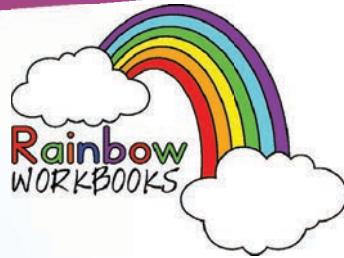
Ri na fulufhelo lauri bugu idzi dzi do thusa vhadededzi (vhagudisi) mushumoni wavho wa u funza wa duvha linwe na linwe khathihi na u vha na vhutanzu uri vha khunyeledze kharikhulamu yothé. Ro ita nga vhuronwane uri ri sumbedze ndila vhadededzi kha nyito nge ra shumisa aikhoni dzi no sumbedza uri mugudi u tea u ita zwifthio.

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

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

Gireidi  
ya

3



M b a i o

NGA TSHIVENDA

Heyi bugu ndi ya:



TSHIVENDA

Bugu ya

I



Dethi:

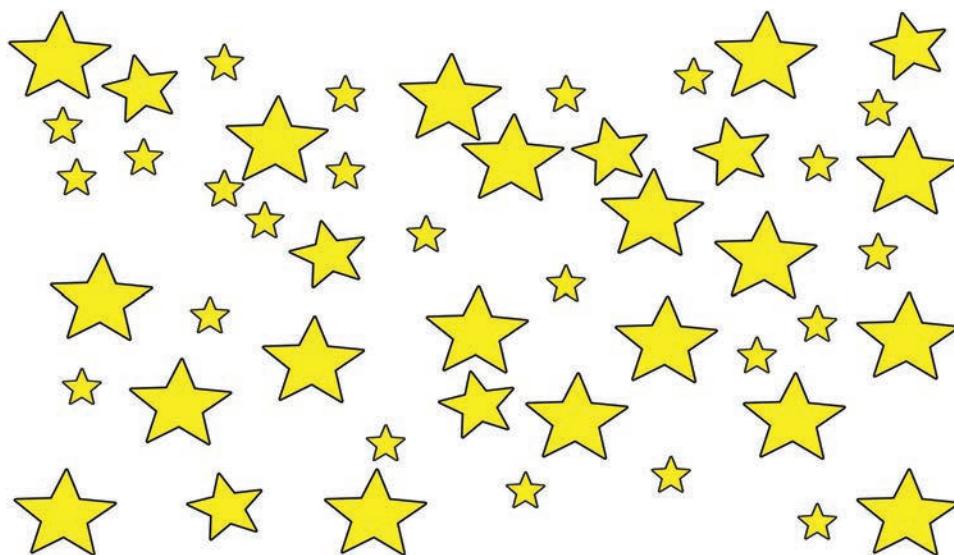
Themo ya |



## U vhala, u vhekanya na u sumbedza!

Hu na naledzi nngana?

Vhambedzani phindulo



Anganyelani uri hu na naledzi nngana. \_\_\_\_\_

Zwino dzi vhaleni. \_\_\_\_\_



### Wanani muwini!

Ndi nnyi o anganyelaho u fhira vhothe?

Dzhenisani madzina aqna na phindulo kha thebulu iyi.

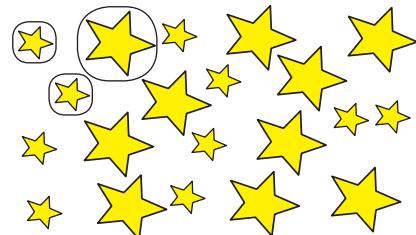
|  |  |  |  |  |
|--|--|--|--|--|
| Dzina  |  |  |  |  |
| Anganyelani  |  |  |  |  |
| Nomboro dzo vhalwaho                                       |  |  |  |  |
| Phambano vhukati ha zwe<br>na anganyela na zwe na<br>vhala |  |  |  |  |



Ndila dza u vhala. Ri thuseni u i ḥwala



Ndo vhalela  
nga thihi.



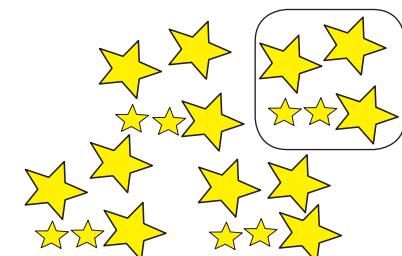
1, 2, 3, \_\_\_\_\_  
\_\_\_\_\_



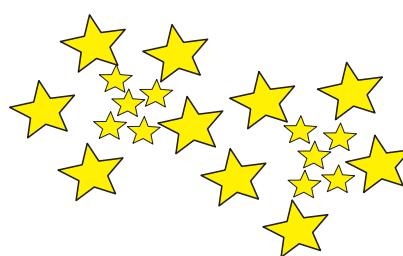
Ndo vhala  
nga 2.



Ndo vhalela  
nga ḥhanu.



5, \_\_\_\_\_  
\_\_\_\_\_



Ndo vhalela  
nga mahumi



## Nwalani mafhungombalo

Nwalani mafhungo mavhili ni tshi ṣea  
ṭhanganyelo ya ḥaledzi. A nwaleni nga ndila mbili.

Khulwane Thukhu Ngaurali

$$\star + \star = \underline{\quad}$$

nahone sa fhungombalo.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

kana

ngaurali

$$\star + \star = \underline{\quad}$$

$$kana \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$$

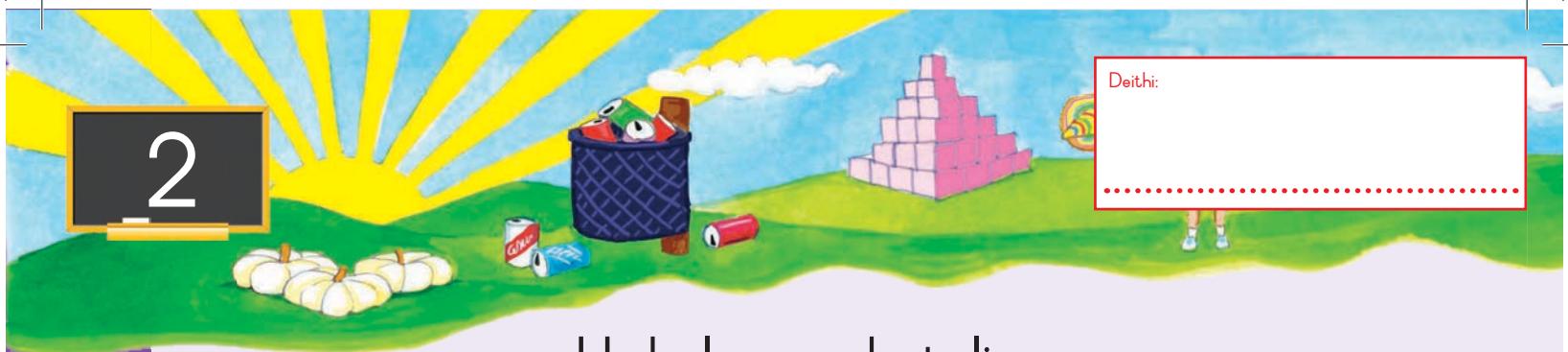
Musi ni tshi ḥanganya  
nomboro dziñwe na dziñwe  
mbili a zwi na mushumo uri  
mutesvhe wadzo ndi uf hio.



|                   |
|-------------------|
| Teacher:<br>Sign: |
| Date:             |

11 12 13 14 15 16 17 18 19 20

2



Dethi:

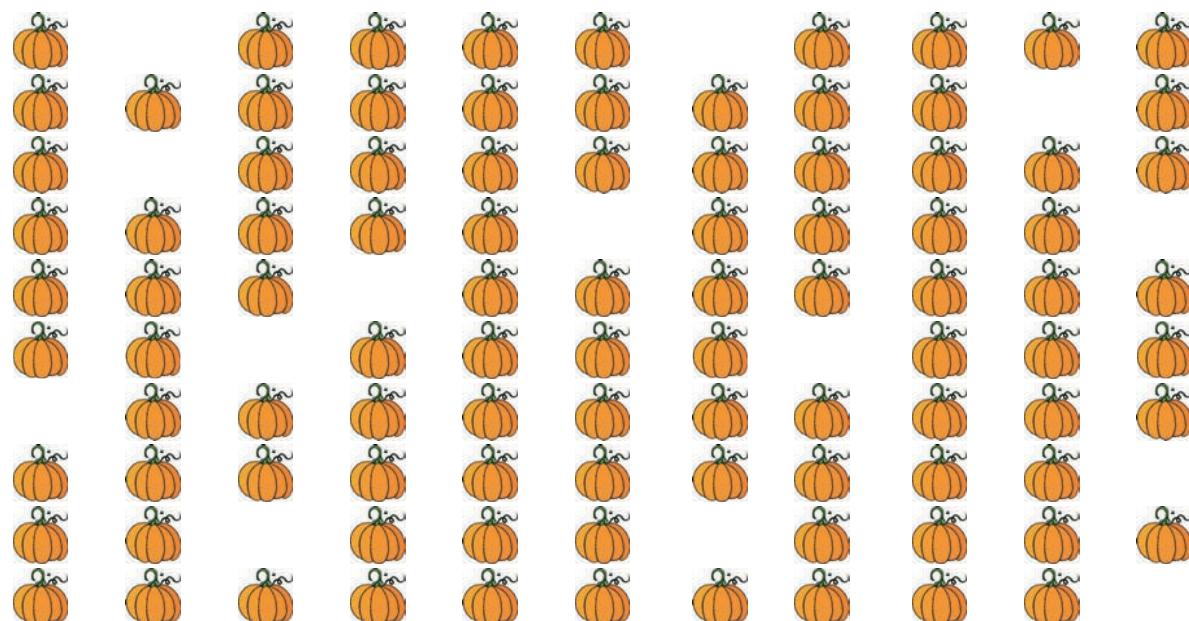
Themo ya |



## U vhala nga vhutali

### U vhala mafhuri

U wana ngila i leluwaho ya u a vhala.



Phindulo: \_\_\_\_\_



### Upaka mafhuri

Mafhuri a fumi a dzhena sagani lithihi.



Ni nga dadza masaga mangana nga mafhuri? \_\_\_\_\_

O fhira nga mafhuri mangana? \_\_\_\_\_

Hu todea maniwe mafhuri mangana a u dadza saga linwe hafhu? \_\_\_\_\_



Ubva kha + u ya kha × (mułanganyo u ya kha muandiso)

Fhedzisani mitalombalo.

Tsumbo:

$$10 + 10 + 10 + 10 = 40 \rightarrow 4 \text{ vhužhi ha } 10 = 40 \rightarrow 4 \times 10 = 40$$



a.  $10 + 10 + 10 = \underline{\hspace{2cm}}$

zwigwada zwa  $\underline{\hspace{2cm}}$  zwa 10  $\rightarrow \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

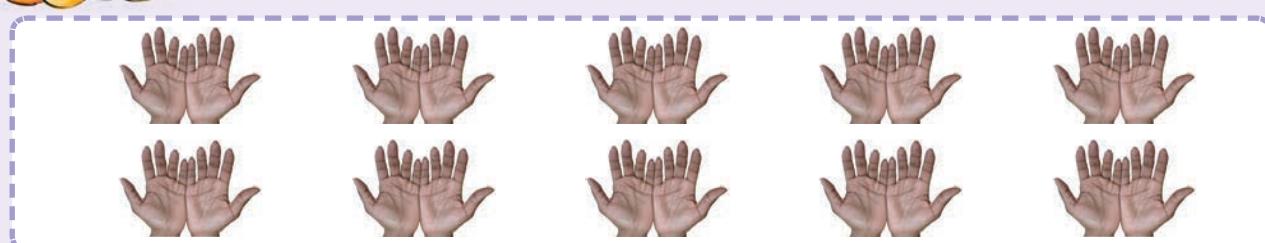


b.  $10 + 10 + 10 + 10 + 10 + 10 + 10 = \underline{\hspace{2cm}}$

zwigwada zwa  $\underline{\hspace{2cm}}$  zwa 10  $\rightarrow \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$



Zwanda na minwe



Hu na zwanda zwingana?  $\underline{\hspace{2cm}}$

Hu na minwe mingana?  $\underline{\hspace{2cm}}$

Nwalani phindulo yanu nga ndila dza 2.

Zwigwada zwa  $\underline{\hspace{2cm}}$  zwa 10  $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$  na  $\underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}}$



11 12 13 14 15 16 17 18 19 20  
||||| ||||| ||||| ||||| |||||

3a

Dethi:

Themo ya |



## Nomboro dzi re kha bodo ya madana

### U amba nga nomboro

Vhalani na u bula nomboro dzot̄he u bva kha 1 – 100. Sumbani ni tshi khou ralo u bula.

|    |   |   |    |    |    |    |   |   |     |
|----|---|---|----|----|----|----|---|---|-----|
| I  | 2 | 3 | 4  | 5  | 6  |    | 8 | 9 | 10  |
| II |   |   |    |    |    |    |   |   |     |
|    |   |   |    |    |    | 27 |   |   |     |
|    |   |   |    | 34 |    |    |   |   |     |
| 41 |   |   |    |    |    |    |   |   |     |
|    |   |   |    |    | 55 |    |   |   |     |
|    |   |   | 63 |    |    |    |   |   |     |
| 71 |   |   |    |    |    |    |   |   |     |
|    |   |   |    |    | 86 |    |   |   |     |
|    |   |   | 94 |    |    |    |   |   | 100 |



- Ńwalani nomboro 1 no khou ṭahela kha tshibuloko tshiñwe na tshiñwe muvhala wa lutombo.
- Ńwalani idzo dziñwe nomboro.
- Nomboro dza ṭada ndi nomborode?



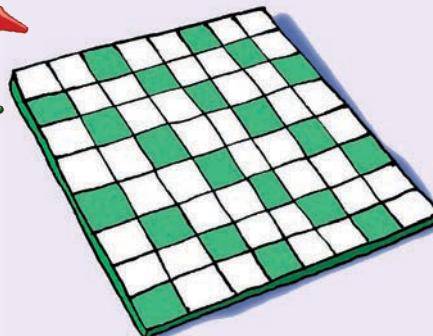
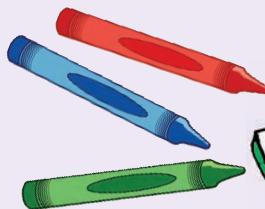
Ńwalani nomboro nga maipfi.

|    |         |    |  |
|----|---------|----|--|
| 90 | fut̄ahe | 41 |  |
| 77 |         | 56 |  |
| 14 |         | 65 |  |



U vhala na u khalara

Dilugiseleni u vhala na u khalara!



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

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

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

Vhalani ni  
thivhe 10.

Vhalani ni thivhe 5 u bva  
kha 0 – 100.

Vhalani ni  
thivhe 2.

Vhalani nga 10 u bva kha  
10 u swika kha 100.

Vhalani nga 5 u bva kha 5  
u swika kha 100.

Vhalani nga 2 u bva kha 2  
u swika kha 100.

Nwalani nga dzo10 u swika  
kha 100.

Nwalani nga dzo5 u swika  
kha 80.

Nwalani nga dzo2 u swika  
kha 50.



11 12 13 14 15 16 17 18 19 20

3b

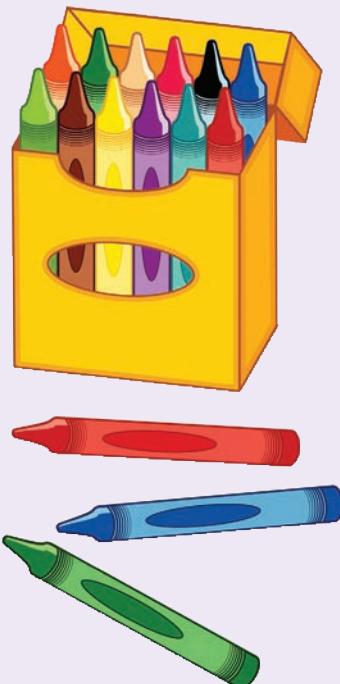
Dethi:

Themo ya |



U ḥala phetheni

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



Itani thiki kha 10 dzot̄he.

Itani thiki kha 5 dzot̄he.

Itani thiki kha 2 dzot̄he.

Nwalani nomboro dza 20 dza u thoma dzine dza vha kha phetheni ya 2 na ya 5 vhuvhili hadzo.

---

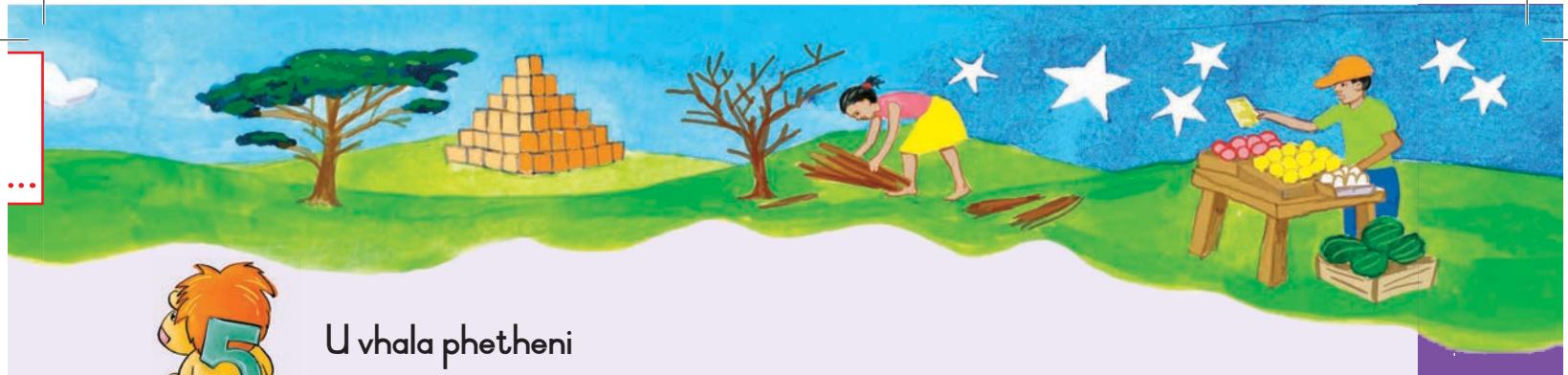
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---

1      2      3      4      5      6      7      8      9      10



## Uvhala phetheni

Dzhenisani nomboro dzo t̄ahelaho.

0; 10; 20; \_\_\_\_\_; \_\_\_\_\_; 50; \_\_\_\_\_; \_\_\_\_\_; 80; \_\_\_\_\_; 100; \_\_\_\_\_;  
\_\_\_\_\_; 130; \_\_\_\_\_; \_\_\_\_\_; 160; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 200

0; 5; 10; \_\_\_\_\_; \_\_\_\_\_; 25; \_\_\_\_\_; \_\_\_\_\_; 40; \_\_\_\_\_; 50; 55; \_\_\_\_\_;  
\_\_\_\_\_; 70; \_\_\_\_\_; \_\_\_\_\_; 85; \_\_\_\_\_; \_\_\_\_\_; 100

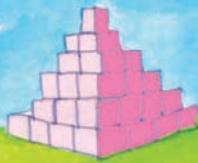
0; 2; 4; 6; \_\_\_\_\_; \_\_\_\_\_; 12; \_\_\_\_\_; \_\_\_\_\_; 18; \_\_\_\_\_; 22; 24; \_\_\_\_\_;  
\_\_\_\_\_; 30; \_\_\_\_\_; \_\_\_\_\_; 36; 38; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 46; \_\_\_\_\_;

0; \_\_\_\_\_; 8; \_\_\_\_\_; 16; 20; \_\_\_\_\_; 28; \_\_\_\_\_; 36; \_\_\_\_\_; \_\_\_\_\_;  
\_\_\_\_\_; 52; \_\_\_\_\_; \_\_\_\_\_; 64; \_\_\_\_\_; 72; \_\_\_\_\_; 80

0; \_\_\_\_\_; 10; \_\_\_\_\_; 20; \_\_\_\_\_; 30; \_\_\_\_\_; 40; \_\_\_\_\_; \_\_\_\_\_; 55;  
60; \_\_\_\_\_; 70; 75; \_\_\_\_\_; 85; \_\_\_\_\_; \_\_\_\_\_; 100

0; 3; \_\_\_\_\_; 9; \_\_\_\_\_; 15; 18; \_\_\_\_\_; 24; \_\_\_\_\_; \_\_\_\_\_; 33; \_\_\_\_\_; 39;  
\_\_\_\_\_; 45; \_\_\_\_\_; \_\_\_\_\_; 54; 57; \_\_\_\_\_; 63; \_\_\_\_\_; \_\_\_\_\_; 72; 75





Dethi:

Themo ya |



U sumbedza nomboro dzañu

Gerani magaraña a nomboro a tshi bva kha bammbiri ja zwigeriwa ja l.  
Shumisani magaraña kha u fhaña nomboro idzi.



43

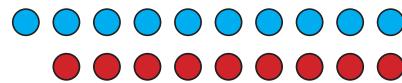
69

54

35

10  
q

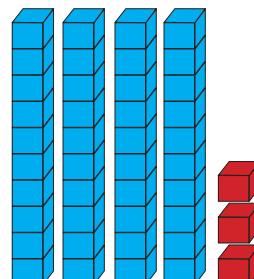
19



10  
q

$$10 + q = 19$$

43



10  
10  
10  
10  
3

$$40 + 3 = 43$$

Zwino fhañani nomboro idzi nga inwi muñe ni tshi shumisa Zwigeriwa l.

54

35

69

10

1 2 3 4 5 6 7 8 9 10



## U n̄wala nomboro idzi

Ro dzula ro ni itela ya u thoma

Ri nga kha d̄i ri  
nthihi dza q

| Iq | $10 + q$ | I fumi + q yuniti |
|----|----------|-------------------|
| 43 |          |                   |
| 69 |          |                   |
| 54 |          |                   |
| 35 |          |                   |
| 21 |          |                   |
| 73 |          |                   |
| 44 |          |                   |
| 32 |          |                   |
| 89 |          |                   |
| 17 |          |                   |
| 95 |          |                   |
| 56 |          |                   |
| 68 |          |                   |
| 67 |          |                   |



Nwalani nomboro t̄hanu dza u thoma, kha thebulu i re afho nt̄ha, dzi tshi tou tevhekana u bva kha t̄hukhusa u ya kha khulwanesa.

\_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Teacher:

Sign:

Date:

5



Dethi:

## Mutanganyo na mutuso



### Tshitolo tsha Takalani

Nga matsheloni Takalani u na phakhethe dza maapula dza 19.  
Nga tshifhinga tsha tshiswi $\ddot{u}$ lo o sala na phakhethe dza 13.

a. Ndi phakhethe nngana dze Takalani a rengisa? \_\_\_\_\_

b. Nwalani phindulo yanu sa fhungombalo.

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



Nwalani manwe mafhungombalo matanu ni tshi sumbedza phindulo i fanaho.

$$15 - 9 = 6 \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad}$$



### Ndovhololo ya nomboro

Nwalani phindulo.

$$1 + 2 = 3$$

Shumisani ...  
+ - =

|                                 |                                 |                                  |                                  |
|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| $10 + 5 =$ <input type="text"/> | $11 + 6 =$ <input type="text"/> | $14 - 9 =$ <input type="text"/>  | $14 - 8 =$ <input type="text"/>  |
| $11 + 5 =$ <input type="text"/> | $17 + 2 =$ <input type="text"/> | $19 - 7 =$ <input type="text"/>  | $14 - 5 =$ <input type="text"/>  |
| $12 + 6 =$ <input type="text"/> | $3 + 13 =$ <input type="text"/> | $16 - 5 =$ <input type="text"/>  | $16 - 13 =$ <input type="text"/> |
| $17 + 2 =$ <input type="text"/> | $4 + 15 =$ <input type="text"/> | $15 - 10 =$ <input type="text"/> | $19 - 7 =$ <input type="text"/>  |



### Mita ya nomboro

5  9  14

Tsumbo dza uno muta wa nomboro khedzi

$$9 + 5 = 14$$

$$5 + 9 = 14$$

$$14 - 9 = 5$$

$$14 - 5 = 9$$



Ni nga kona u wana miča yothe ya nomboro 14?

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



Ndi khou ya u ita zwi no fana  
na zwenezwi nga 12.

12

|               |  |  |
|---------------|--|--|
| $1 + 11 = 12$ |  |  |
| $2 + 10 = 12$ |  |  |
| $3 + 9 = 12$  |  |  |
| $4 + 8 = 12$  |  |  |
| $5 + 7 = 12$  |  |  |
| $6 + 6 = 12$  |  |  |



11 12 13 14 15 16 17 18 19 20

6



Dethi:

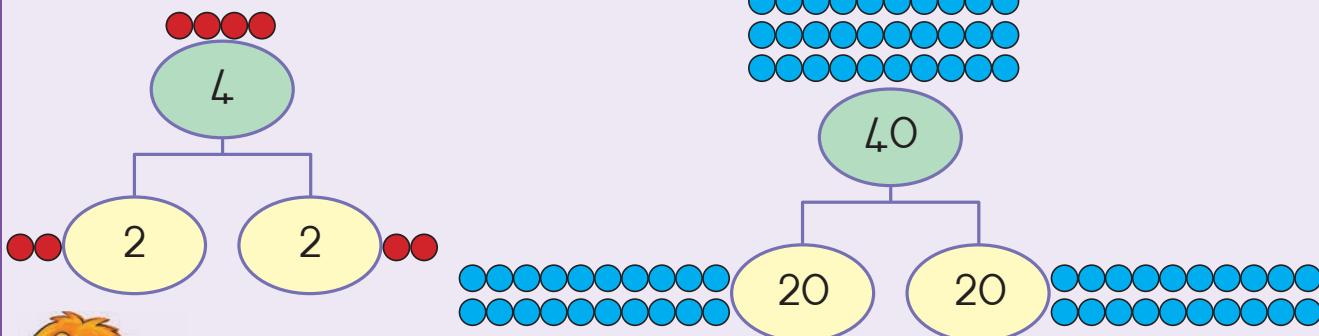
Themo ya I

## Nyingakavhili (Davhulu) na dzihafu

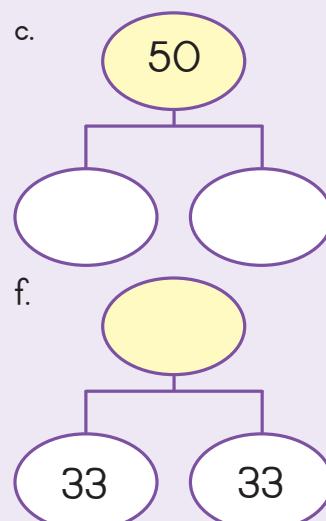
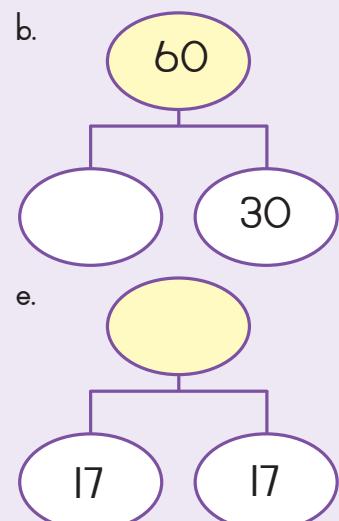
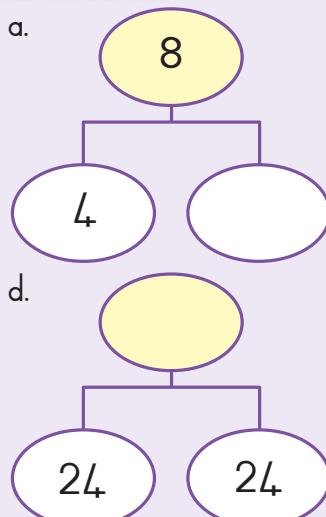
Ni kha di elelwa naa?

Nyingakavhili ya 2 ndi 4      Nyingakavhili ya 20 ndi 40      4 ndi 2 kavhili      40 ndi 20 kavhili

Ri nga sumbedza izwi nga nyolo ...



Wanani davhulu kana dzihafu



d.

e.

f.



Khaedu

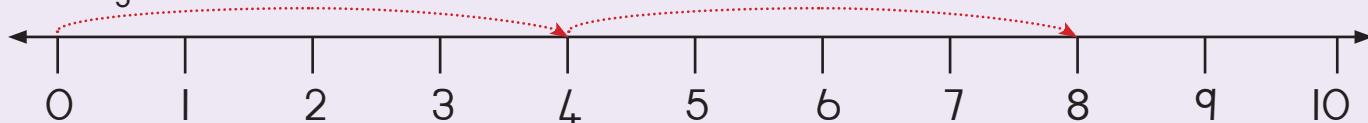
Wanani hafu nthihi ya 3.

I sumbedzeni sa nomboro kana dzinambalo. Nyolo i nga ni thusa.

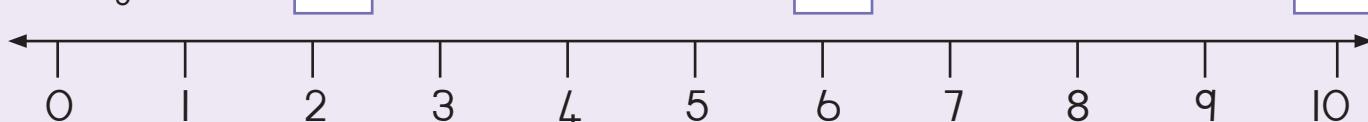


Ingani kavhili (davhulani) nomboro ni tshi shumisa mutalombalo. No ɻewa tsumbo ya u thoma.

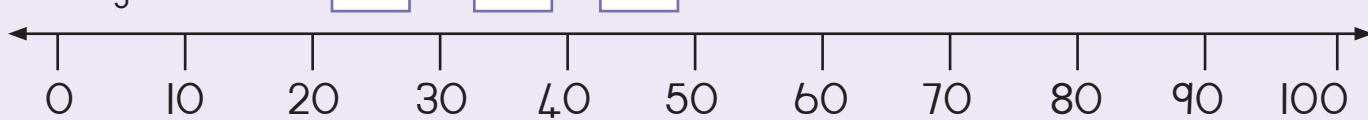
a. Ingani kavhili 4  +  =



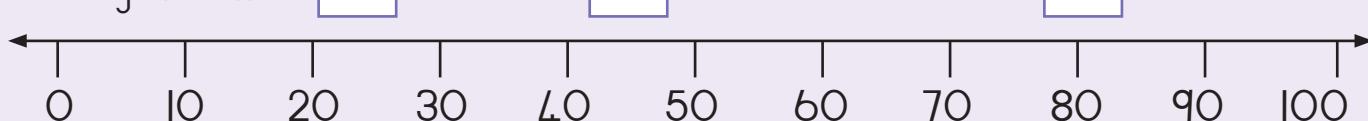
b. Ingani kavhili 5  +  =



c. Ingani kavhili 20  +  =



d. Ingani kavhili 40  +  =



Fhedzisani zwi tevhelaho

- |                      |   |
|----------------------|---|
| a. Ingani kavhili 1  | 2 |
| b. Ingani kavhili 6  |   |
| c. Ingani kavhili 10 |   |
| d. Ingani kavhili 30 |   |
| e. Ingani kavhili 50 |   |



Fhedzisani zwi tevhelaho

- |                |   |
|----------------|---|
| a. Hafulani 6  | 3 |
| b. Hafulani 8  |   |
| c. Hafulani 14 |   |
| d. Hafulani 60 |   |
| e. Hafulani 70 |   |





Dethi:

## Furakhisheni (zwipida)

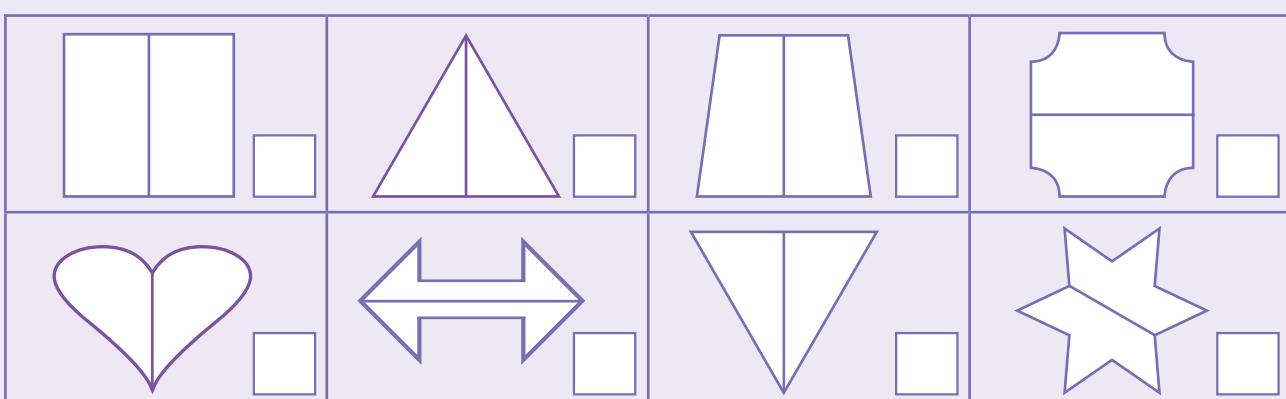
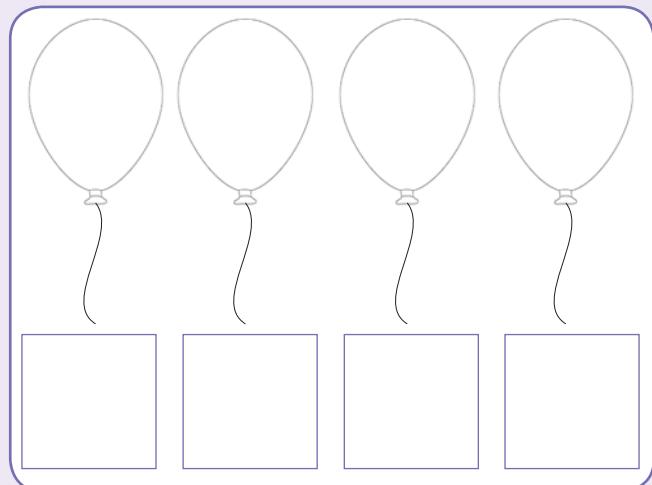
Khalaran i kota nthihi ya mabaloni nga muvhala mutswuku ayo manwe nga wa lutombo.

Khalaran i hafu nthihi ya tshibogisi tshiñwe na tshiñwe nga muvhala mutswuku.

Lavhelesani tshifanyiso. Nwalani thiki kha zwivhumbeo zwi no sumbedza dzihafu.

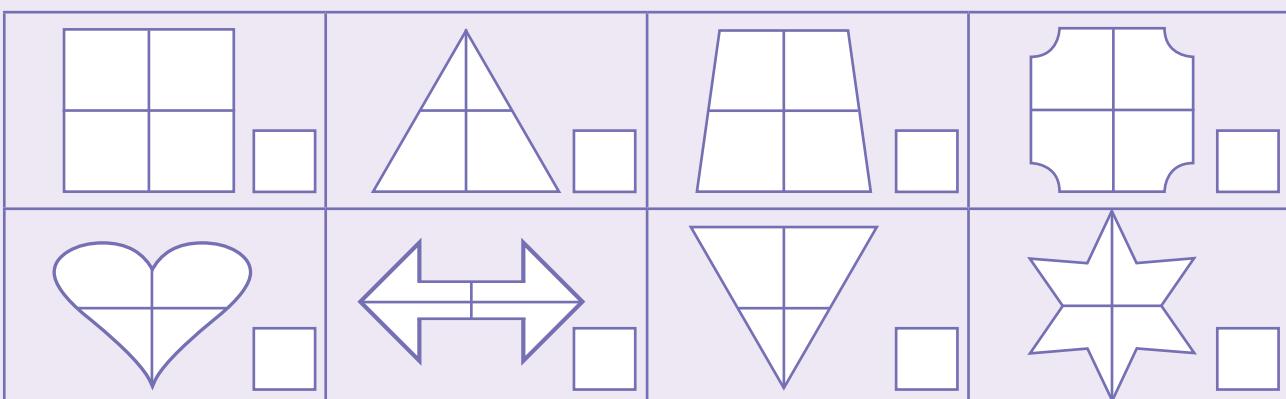


Khalaran i hafu nthihi ya tshivhumbeo tshiñwe na tshiñwe tshe tsha fhandulwa tsha bva dzihafu.



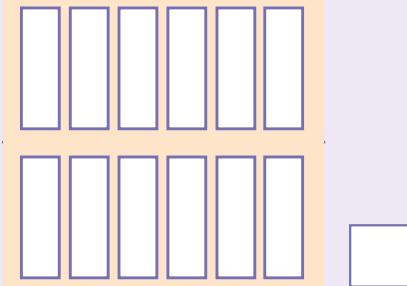
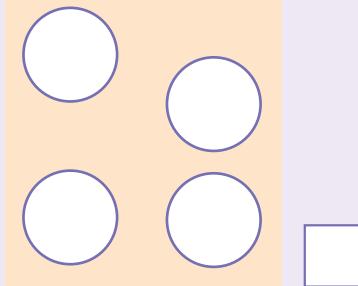
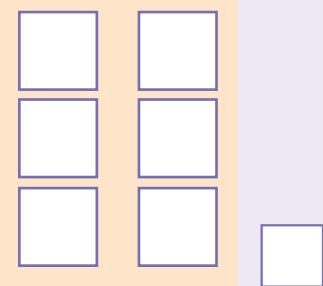
Lavhelesani zwivhumbeo. Nwalani thiki kha zwivhumbeo zwi no sumbedza dzikota.

Khalaran i kota nthihi ya tshivhumbeo tshiñwe na tshiñwe tshe tsha fhandulwa tsha bva dzikota.

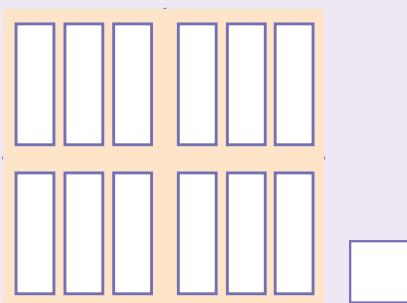
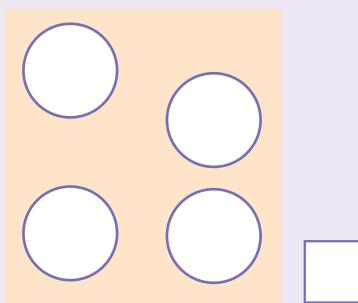
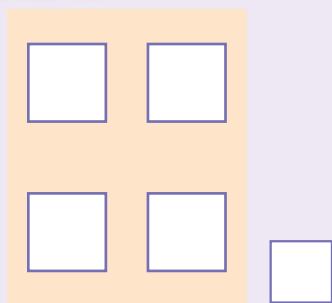




Khalarani hafu ya zwivhumbeo. Hafu ya tshivhalo tsha zwivhumbeo ndi ifhio?



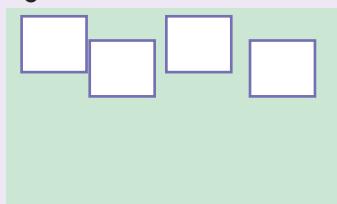
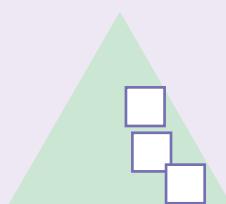
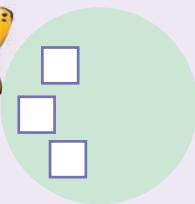
Khalarani kota ya zwivhumbeo. Kota ya tshivhalo tsha zwivhumbeo ndi ifhio?



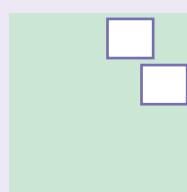
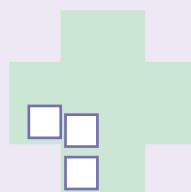
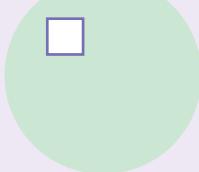
Nwalani sa luswayo (tshiga) lwa furakhisheni. hafu nthihi  kota nthihi



Olani zwivhumbeo zwiñwe hafhu u itela uri hafu iñwe i lingane na iñwe.



Olani zwivhumbeo zwiñwe hafhu u itela uri kota iñwe i lingane na iñwe.





Dethi:



## U vhekanya tshelede

### Tshitokofelani



Mufumakadzi Vho Singo vha vhala na u vhekanya tshelede i bvaho kha tshigwada.



Anganyelani tshelede yo<sup>the</sup>. R \_\_\_\_\_

Vhalani tshelede. R \_\_\_\_\_

Vhambedzani zwe  
zwa anganyelwa na  
thanganyelo.



### U vhulunga tshelede

Gugu u vhulunga tshelede ya renga phere ya zwienda i no dura R89.

U swika zwino u na hafu ya tshelede iyo.

U ṭoda vhugai nga ḥtha?

Nwalani fhungombalo la u sumbedza phindulo yanu.



\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_



## Banngani

Maria u vhekanya tshelede ya bammbiri  
nga zwi<sup>th</sup>opho zwa 5.  
O sala na iñwe tshelede ya bammbiri.  
Nwalani <sup>th</sup>hanganyelo ya tshifanyiso  
tshiñwe na tshiñwe.



<sup>th</sup>hanganyelo

|  |         |
|--|---------|
|  | R _____ |
|  | R _____ |
|  | R _____ |



## Khaedu

U dala zuu

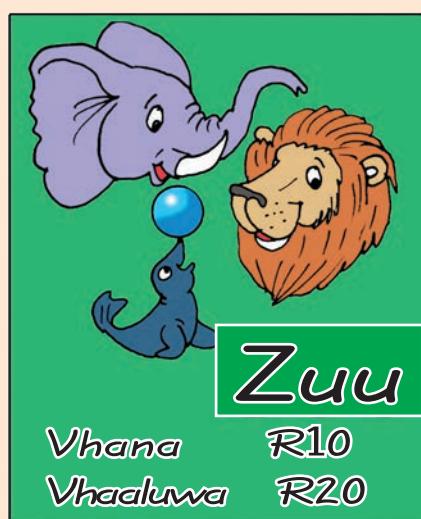
Vhaaluwa na vhana vhañwe vha ya zuu.  
Vha renga thikhithi dza R90.

Vhana ndi vhangan? \_\_\_\_\_

Vhaaluwa ndi vhangan? \_\_\_\_\_

Hu na iñwe phindulo naa?

Vhaaluwa \_\_\_\_\_ Vhana \_\_\_\_\_





Dethi:

Themo ya |



## Phetheni

Shumisani bodo iyi ya nomboro ya 200 kha u fhindula mbudziso

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| I   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| II  | I2  | I3  | I4  | I5  | I6  | I7  | I8  | I9  | I0  |
| 2I  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| 3I  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| 4I  | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  |
| 5I  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| 6I  | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  |
| 7I  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| 8I  | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  |
| 9I  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | I00 |
| I0I | I02 | I03 | I04 | I05 | I06 | I07 | I08 | I09 | I10 |
| III | I12 | I13 | I14 | I15 | I16 | I17 | I18 | I19 | I20 |
| I2I | I22 | I23 | I24 | I25 | I26 | I27 | I28 | I29 | I30 |
| I3I | I32 | I33 | I34 | I35 | I36 | I37 | I38 | I39 | I40 |
| I4I | I42 | I43 | I44 | I45 | I46 | I47 | I48 | I49 | I50 |
| I5I | I52 | I53 | I54 | I55 | I56 | I57 | I58 | I59 | I60 |
| I6I | I62 | I63 | I64 | I65 | I66 | I67 | I68 | I69 | I70 |
| I7I | I72 | I73 | I74 | I75 | I76 | I77 | I78 | I79 | I80 |
| I8I | I82 | I83 | I84 | I85 | I86 | I87 | I88 | I89 | I90 |
| I9I | I92 | I93 | I94 | I95 | I96 | I97 | I98 | I99 | 200 |



Shumisani bodo iyi ya nomboro ya 200 kha u fhedzisa nomboro nna dzi no tevhela kha phetheni idzi dza nomboro. Kha larani phetheni idzi kha bodo ya nomboro.

|                      |                      |
|----------------------|----------------------|
| I05, I10, I15, _____ | 87, 90, 93, _____    |
| 36, 40, 44, _____    | 184, 186, 188, _____ |
| 70, 65, 60, _____    | 138, 135, 132, _____ |
| 180, 176, 172, _____ | 14, 12, 10 _____     |



Ndi zwifhio zwine na kona u vhona malugana na nomboro dzi re na muvhala muthihhi?

U vhalela nga t̄hanu.

|  |   |  |    |  |  |  |  |  |  |  |  |
|--|---|--|----|--|--|--|--|--|--|--|--|
|  | 5 |  | 10 |  |  |  |  |  |  |  |  |
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|  |   |  |    |  |  |  |  |  |  |  |  |
|  |   |  |    |  |  |  |  |  |  |  |  |

U vhalela nga mbili.

|   |   |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|
| 2 | 4 |  |  |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |  |  |
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|   |   |  |  |  |  |  |  |  |  |  |  |

U vhalela nga tharu.

|  |   |   |  |  |  |  |  |  |  |  |  |
|--|---|---|--|--|--|--|--|--|--|--|--|
|  | 3 | 6 |  |  |  |  |  |  |  |  |  |
|  |   |   |  |  |  |  |  |  |  |  |  |
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|  |   |   |  |  |  |  |  |  |  |  |  |

U vhalela nga mahumi.

|  |  |  |  |  |  |  |  |  |  |  |    |
|--|--|--|--|--|--|--|--|--|--|--|----|
|  |  |  |  |  |  |  |  |  |  |  | 10 |
|  |  |  |  |  |  |  |  |  |  |  |    |
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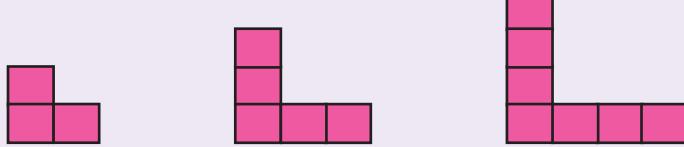
Tharamudzani phetheni



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



11 12 13 14 15 16 17 18 19 20

10

Dethi:

Themo ya |

## Bola, zwibogosi na silinda



Tangedzelani zwibogisi nga muvhala wa lutombo, bola nga mutswuku silinda nga mudala.



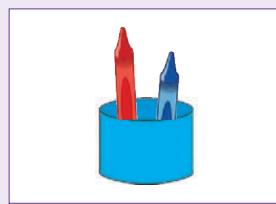
Khalaran i phindulo i re yone.



Bogosi li a

swenda

kunguluwa



Silinda li a

swenda

kunguluwa



Bola li a

swenda

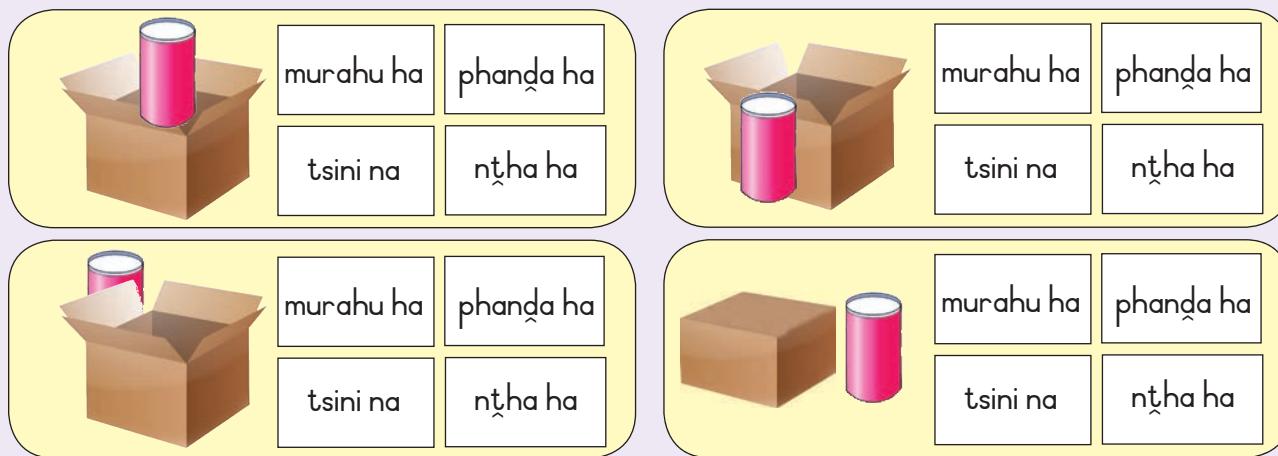
kunguluwa



Khalarani phindulo i re yone.



Bulani uri bola i murahu ha, phanda ha, tsini na kana ntsha ha bogisi.

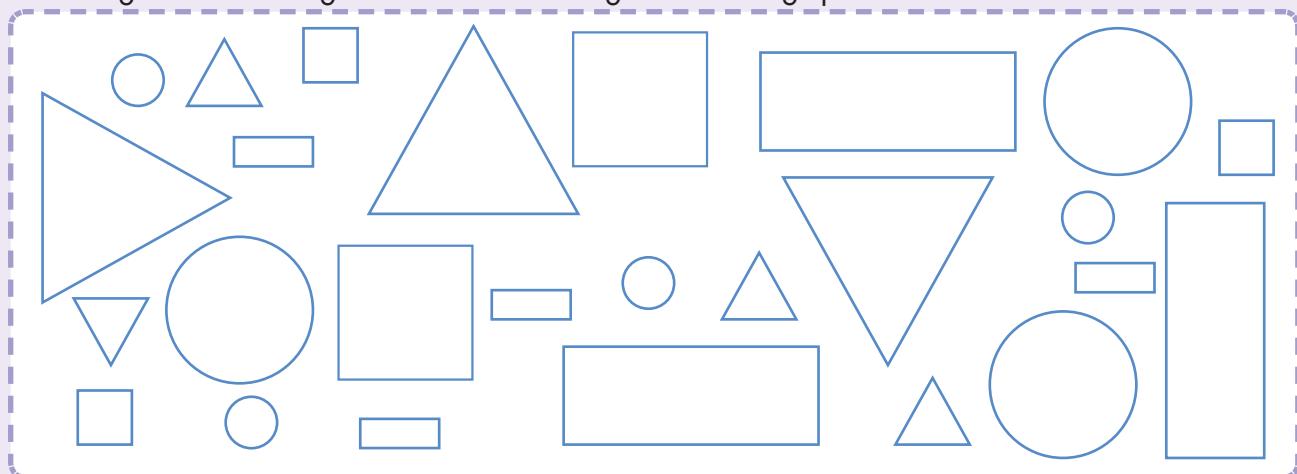






## Kħalarani zwotħe

zwitendeledzi zwiħulwane nga muvhala mutswuku; zvitendeledzi zwiķuku nga mudala;  
thiraiengele khulwane nga wa lutombo; thiraiengele tħukku nga tshitopana;  
zwickwea zwiħulwane nnga tħadd; zwickwea zwiķuku nga phephulu;  
rekithiengħe khulwane nga buraweni; rekithiengħe tħukku nga pinki.



## Hu na vhurumbu (matungo) vhugana?

Tshivhumbeo tshiñwe na tshiñwe tshi na vhurumbu vhungana? Nwalani nomboro i re kha tshibuloko. Ro ni itela nthihi. Vhurumbu ndi tswititi kana ndi tshipulumbu? Kħalarani phindulo i re yone.

|          |             |          |             |
|----------|-------------|----------|-------------|
|          |             |          |             |
| 3        |             |          |             |
| tswititi | tshipulumbu | tswititi | tshipulumbu |
|          |             |          |             |
| tswititi | tshipulumbu | tswititi | tshipulumbu |
|          |             |          |             |

○  
□  
△

Teacher:  
Sign:  
Date:

12



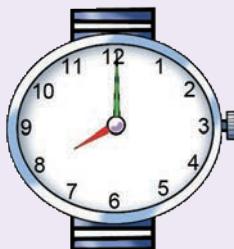
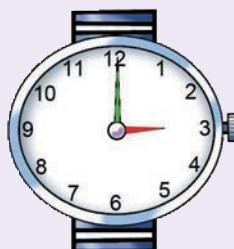
Dethi:



## Utshimbila ha tshifhinga

U vhala tshifhinga

Ndi zwifhinga zwifhio zwine watshi idzi dza luvhondoni dza sumbedza?



Awara ya \_\_\_\_\_

Awara ya \_\_\_\_\_

Awara ya \_\_\_\_\_

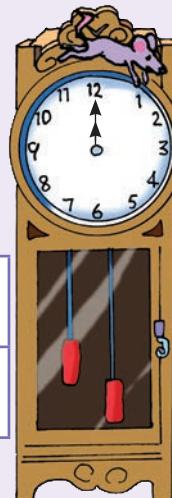
Awara ya \_\_\_\_\_



Thamuwani ni tshi mona na watshi

Thusani Minnie Mouse u vhala miminete nga dzi 5.

Thomani kha 12. Ni mone nayo yothe.



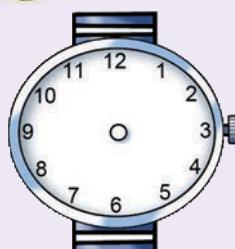
Ni vha no vhala miminete mingana? \_\_\_\_\_

Hu na miminete mingana kha awara ya I. \_\_\_\_\_



U nwala tshifhinga

Olani mañanga ni tshi sumbedza zwifhinga.



kotara u bva kha  
awara ya 6

hafu u bva kha  
awara ya 8

kotara u ya kha  
awara ya 11

hafu u bva kha  
awara ya 5



Zander u ya tshikoloni.



U bva hayani.



U swika tshikoloni.

Zander u dzhia tshifhinga tshingafhani? \_\_\_\_\_



Duvha la u baka

Vho Maria vha baka vhurotho.



Vhurotho vhu dzhena ovenini.



Vhurotho  
vhu a bva.



Vhurotho vhu bakiwa awara dza \_\_\_\_\_.



Khaedu

Ndi a kona u vhona phetheni.

- Nga tshifhinga tsho ingwaho kavhili  
a. Shandukisani awara dzi vhe miminete.

|          |    |   |   |   |
|----------|----|---|---|---|
| Awara    | 1  | 2 | 4 | 8 |
| Miminete | 60 |   |   |   |



- b. Jabu u fhedza miminete ya 45 u ya tshikoloni. Pfano u fhedza tshifhinga itshi luvhili.  
Ndi awara nngana dzine Zander a fhedza u swika tshikoloni? \_\_\_\_\_

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

13

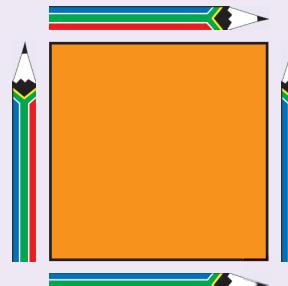
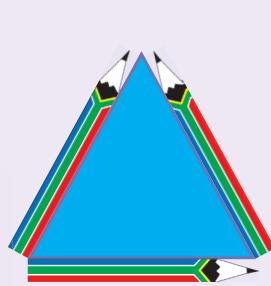
Dethi:

Themo ya |

## Upima vhulapfu/vhunavho



Musi o t̄angana othe,  
masia a thiraiengele iyi  
a na vhulapfu hu  
no lingana na ha  
pinisela dza 3.



Musi o t̄angana othe,  
masia a tshikwea itshi  
a na vhulapfu hu  
no lingana na ha  
pinisela dza 4.



A thi d̄ivhi uri  
rekithiengele iyi i nga  
vha i na vhulapfu na u  
t̄andavhuwa zwingafhani.

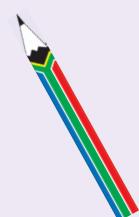
Rekithiengele iyi i na vhulapfu vhungafhani ha penisela?



Rekithiengele iyi i na u t̄andavhuwa vhungafhani ha penisela?



vhulapfu



vhuphara

No shumisa penisela nga ndilade kha u vhala?

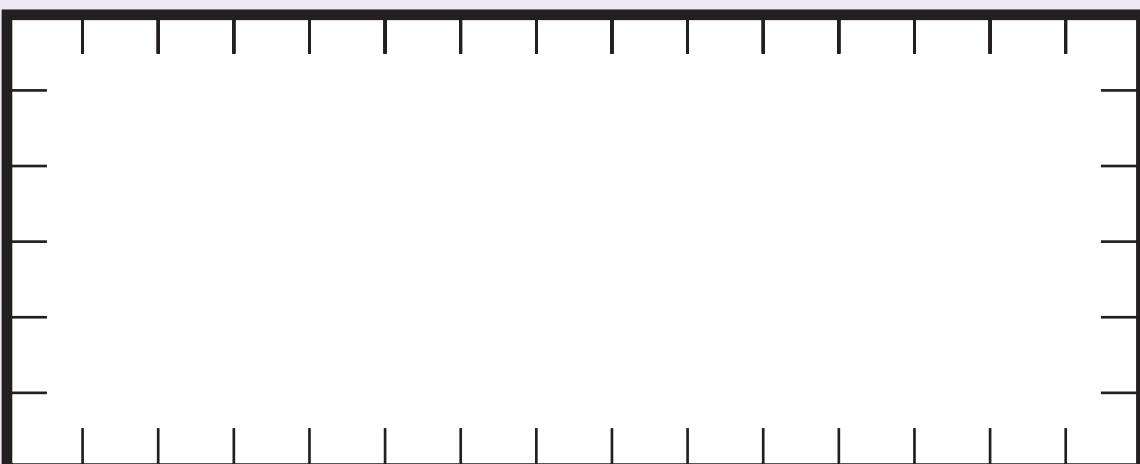


## Tshibulebule tsha vhulapfu

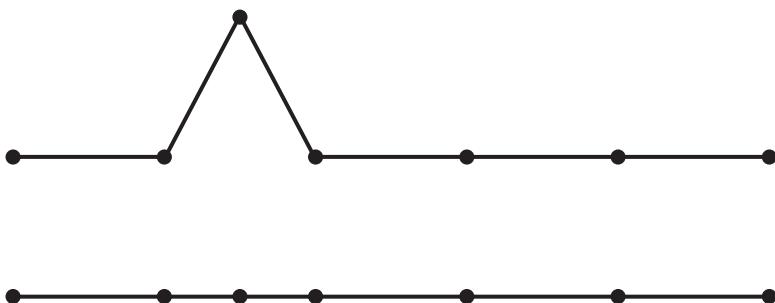
- a. Ndi mitalo mingana miset̄ha  
ine na i ṭoda uri ni kone u tiba mutalo mutswu?



- b. Ndi mitalo mingana miset̄ha ine na i ṭoda uri ni do kona u mona na rekhitiengele?



- c. Ndi tshifhio tsho lapfesaho, ndila ya nt̄ha kana ya fhasi, kana dzi a lingana?



Phindulo \_\_\_\_\_

Ndi ngani? \_\_\_\_\_





## Khaphasithi (ndadzo)

Ndo no shela  
lebula nna  
khaphuni

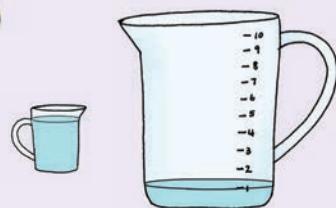
Ndi khaphu nngana hafhu dza madzi dzine dza nga dadza tshifaredzi (mudzio)?

---



Hu na khaphu nngana dza madzi kha tshifaredzi? Ri ḥoda khaphu nngana hafhu uri ri dadze tshifaredzi?

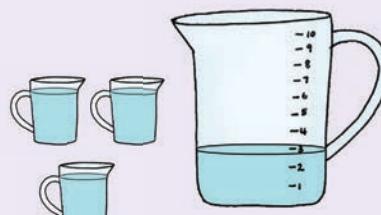
a.



Kha tshifaredzi:

Hu ḥodea hafhu:

b.



Kha tshifaredzi:

Hu ḥodea hafhu:

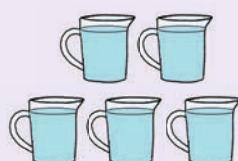
c.



Kha tshifaredzi:

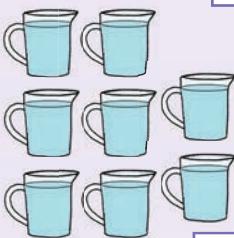
Hu ḥodea hafhu:

d.



Hu ḥodea hafhu:

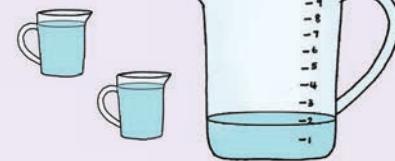
e.



Kha tshifaredzi:

Hu ḥodea hafhu:

f.

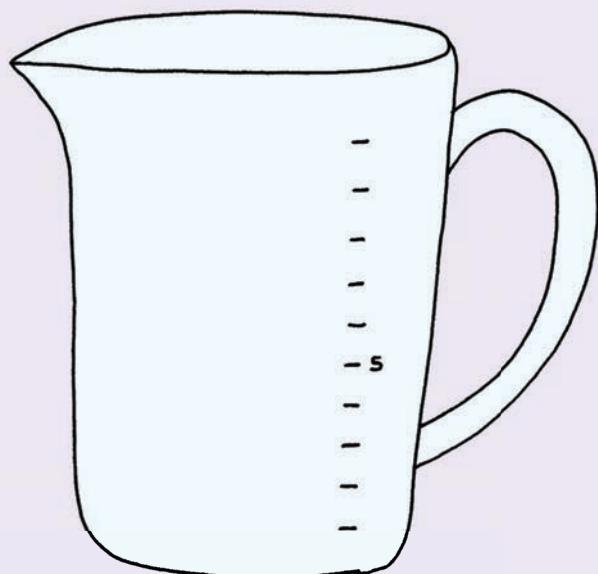


Kha tshifaredzi:

Hu ḥodea hafhu:



Nwalani inthevala (zwikhala) dzi re kha dzhege iyi. Ro ni sumbedza nthihi.



Arali khaphu nthihi i tshi dadza dzhege u swika kha inthevala 2; hu do todea khaphu nngana uri ni dadze dzhege u swika kha:

- 4 \_\_\_\_\_
- 6 \_\_\_\_\_
- 8 \_\_\_\_\_
- 10 \_\_\_\_\_



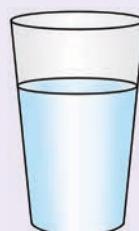
Itani thiki kha zwifaredzi zwine na vhona u nga zwi hwala l litha ya zwiludi ni zwi nambatedze ni tshi thoma kha zwitukusa u swika kha zwi hulwanesa.













15



Dethi:

.....

Themo ya |



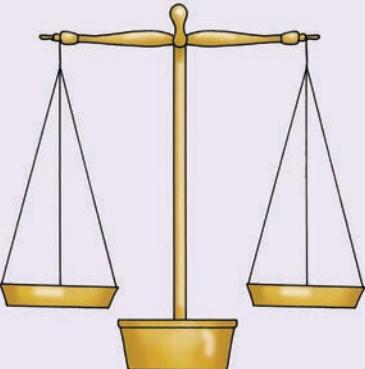
## U ḫanganya na u ḫusa (tsheleme)

Kha ri kale tshileme tshashu!

Kha u wana tshileme tshashu, uri ri lemela kana u leluwa zwingafhani, ri shumisa tshikalo.

Ri kala tshileme nga dzikhilogireme.

Ri shumisa abiriviesheni iyi: kg. Ndi nnyi a no lemelesa?



41 kg



38 kg



41 kg



42 kg



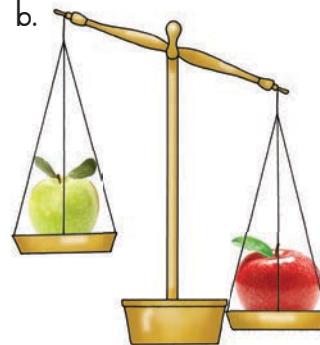
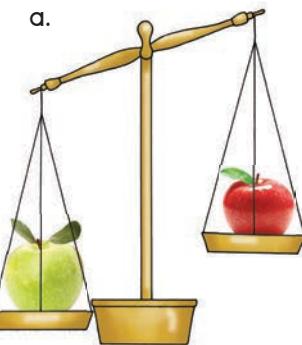
39 kg



Ri shumisa tshikalotshilinganyisi (tsha balantsi) kha u kala tshileme.

**a.**

Ndi kha tshikalo tshifhio hune maapula vhuvhili hao a lemele u fana?

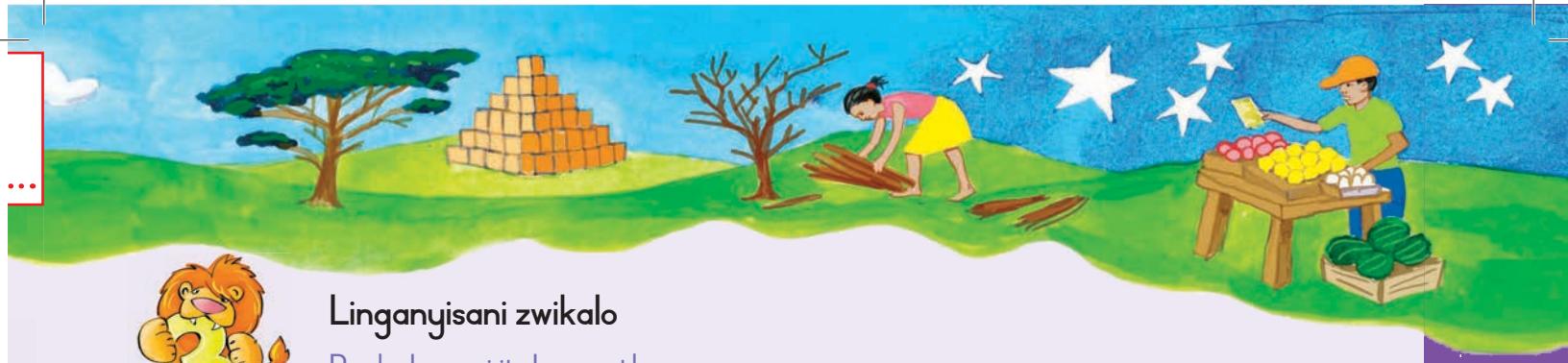


Fhindulani mbudziso. Nwalani a kana b.

Ndi kha tshikalo tshifhio hune apula l̄idala l̄a lemelesa u fhira apula l̄itswuku? Ndi kha tshikalo tshifhio hune apula l̄itswuku l̄a lemelesa u fhira apula l̄idala?

\_\_\_\_\_

\_\_\_\_\_

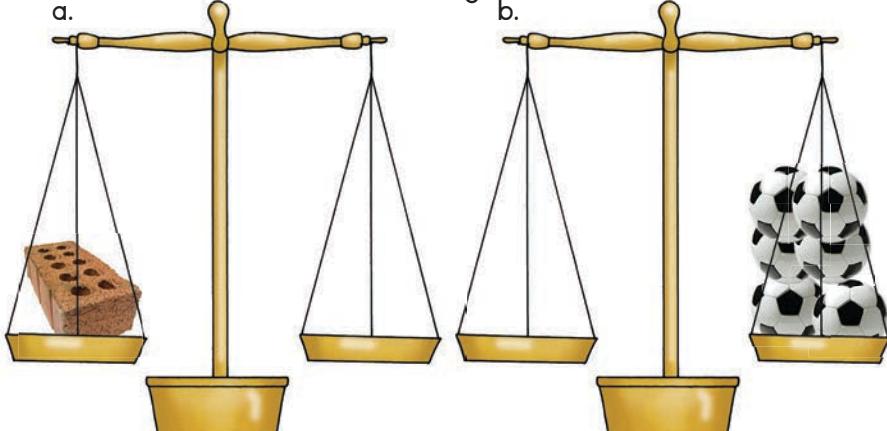


## Linganyisani zwikalo

Ro dzula ro ni itela ya u thoma.



Olani uri hu t<sup>o</sup>dea zwidina zwingana kana bola nngana kha u ita  
uri zwikalo izwi zwi lingane (zwi balantse)



Arali phasela nthihi i tshi lemela 3kg. Dza..... dzi do lemela mini?



a. Phasela dza 2 \_\_\_\_\_

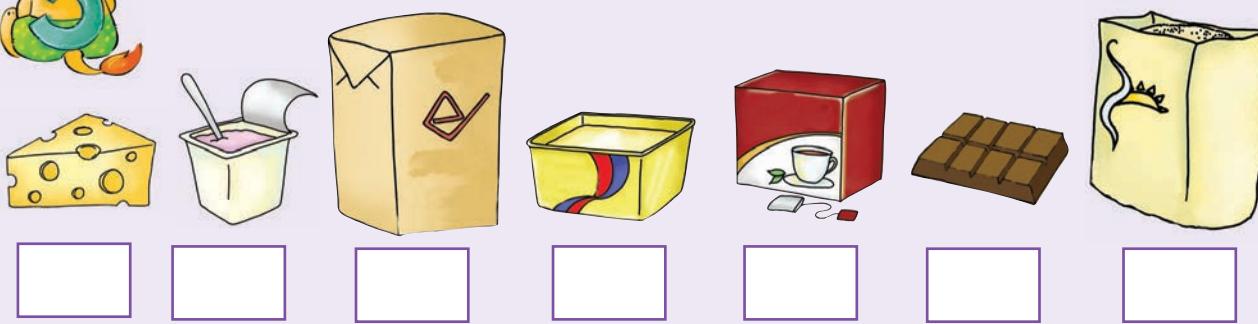
b. Phasela dza 3 \_\_\_\_\_

c. Ndi nga kona u kala phasela dza 4 nga luthihi kha itsi tshikalo tsha khishini? \_\_\_\_\_

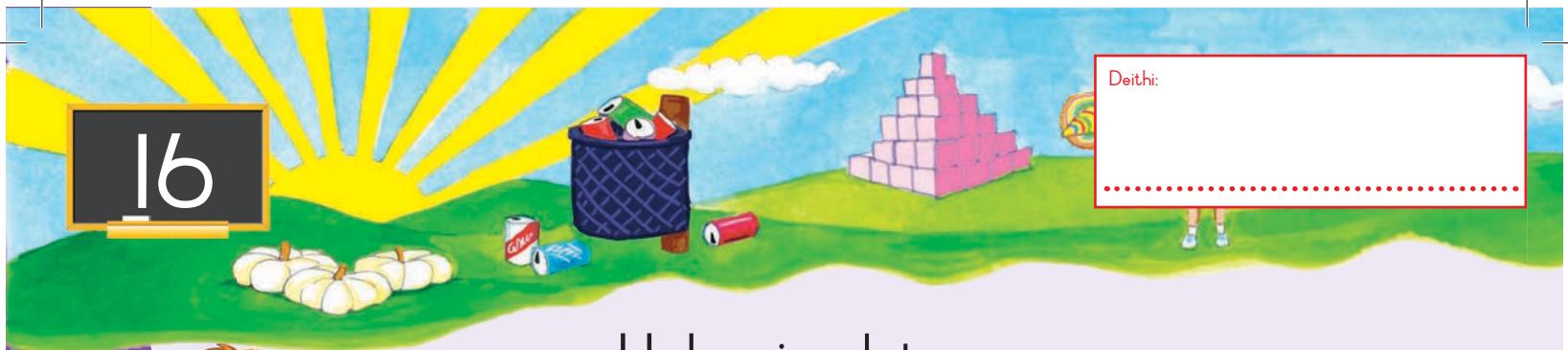
Ngani? \_\_\_\_\_



Itani thiki kha zwifaredzi zwi no hwala phakhetha dza 1 kg,



16



Dethi:

Themo ya |



## U shumisa data

### Zwienda kilasini

Vhalani tshiṭori



Thabo: Ndi zwavhuđi, mufumakadzana! Jack ndi muswonda!  
U ambara saizi 6 ya zwienda!

Mufumakadzi: Zwo luga! Yoo, Thabo, saidzi iyo yo hulesa kha muthu wa miňwaha ya ḥahe!  
Thabo, inwi ni ambara saizi ifhio ya tshienda? Ndi saizi ifhio ine vhaňwe vhothe  
kilasini vha ambara? Kha ri ite ḥodisiso!

Vhagudi vha nga bula saizi dzavho nga muthihi nga muthihi.

Mufumakadzi Vho Khoza vha ḥwala saizi kha bodo ya u ḥwalela.

Mufumakadzi: Vhalani, ni kone u ḥwala uri saizi iňwe na iňwe yo ḥwalwa lungana kha thebulu.

|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 3 | 1 | 2 | 3 | 1 | 4 | 3 | 2 | 3 |
| 2 | 3 | 2 | 6 | 2 | 2 | 3 | 3 | 3 | 4 | 3 |
| 4 | 2 | 2 | 3 | 3 | 5 | 3 | 2 | 2 | 2 | 1 |
| 1 | 1 | 2 | 4 | 2 | 3 | 2 | 3 | 4 | 2 | 4 |
| 4 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 4 | 3 |

Dadzani thebulu i re afho fhasi.

Saizi dza zwienda zwi re kilasini

| Saizi 1 | Saizi 2 | Saizi 3 | Saizi 4 | Saizi 5 | Saizi 6 |
|---------|---------|---------|---------|---------|---------|
|         |         |         |         |         |         |

1 2 3 4 5 6 7 8 9 10



Zwino olani girafu ya  
zwifanyiso (phikhithogirafu)



= mugudi muthihi

|         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|
|         |         |         |         |         |         |
| Saizi 1 | Saizi 2 | Saizi 3 | Saizi 4 | Saizi 5 | Saizi 6 |



Zwino fhindulani mbudziso idzi.

- a. Vhagudi vhanzhi vha ambara zwienda zwa saizi \_\_\_\_\_.
- b. Tshivhalo tshitukusa tshi ambara saizi \_\_\_\_\_.
- c. Vhana vha \_\_\_\_\_ vho shela mulenzhe kha thodisiso iyi.



Zwino inwivho?

Wanani uri ndi saizi dzif'ho dza zwienda dzine inwi na khonani dzanu na ambara!

- Shumani nga tshigwada tsha vhana vha 6 u swika kha 8.
- Kuvhanganyani data yanu.
- Nwalani tshivhalo tsha saizi dza zwienda kha thebulu.
- Vhambedzani phindulo dzanu na zwiñwe zwigwada.



17



Dethi:

## Vhambedzani na u vhekanya nomboro

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

Ndi nomboro ifhio i no rangela 84?  
Ndi nomboro ifhio i no tevhela 84?





Ndi nomboro ifhio i re vhukati ha 88 na 90?


Dzhenisani nomboro dzi no khou t̄ahela.

|    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|
| 51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 67  |
| 71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |

Shumisani bodo ya nomboro kha u fhindula mbudziso.

- Ndi nomboro ifhio i no rangela 68? \_\_\_\_\_
- Ndi nomboro ifhio i no tevhela 68? \_\_\_\_\_
- Nwalani nomboro t̄hanu t̄hukhu kha 71 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Nwalani nomboro t̄hanu dzi re khulwane kha 71. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Ndi nomboro dzifhio dzi re vhukati ha 79 na 84? \_\_\_\_\_
- Nwalani nomboro idzi dzi tshi bva kha t̄hukhusa dzi tshi ya kha khulwanesa. 73, 52, 50, 59, 61  
\_\_\_\_\_
- Nwalani nomboro idzi dzi tshi bva kha khulwanesa dzi tshi ya kha t̄hukhusa. 74, 96, 99, 91, 38  
\_\_\_\_\_



Fhedzisani thebulu. Ni thome nga nomboro ye na newa.

|    | nanzhi nga nthihi | thukhu nga nthihi | nanzhi nga fumi | thukhu nga fumi |
|----|-------------------|-------------------|-----------------|-----------------|
| 25 |                   |                   |                 |                 |
| 39 |                   |                   |                 |                 |
| 74 |                   |                   |                 |                 |
| 56 |                   |                   |                 |                 |
| 40 |                   |                   |                 |                 |



Tangedzelani nomboro khulwanesa

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 78 | 87 | 17 | 36 | 63 | 33 |
|----|----|----|----|----|----|

Tangedzelani nomboro thukhusa

|    |    |   |    |    |    |
|----|----|---|----|----|----|
| 99 | 19 | 9 | 14 | 41 | 40 |
|----|----|---|----|----|----|



Arali < i tshi amba thukhu kha; nahone > i tshi amba khulwane kha; fhedzisani

|    |   |    |    |   |    |
|----|---|----|----|---|----|
| 32 | < | 64 | 23 | > | 18 |
|----|---|----|----|---|----|

|    |                      |    |    |                      |    |
|----|----------------------|----|----|----------------------|----|
| 57 | <input type="text"/> | 98 | 89 | <input type="text"/> | 57 |
|----|----------------------|----|----|----------------------|----|



Wanani nomboro dza 5 kha gurannda dzi re vhukati ha 50 na 99 ni dzi nambatedze hafha. Nomboro inwe na inwe i amba mini?



11 12 13 14 15 16 17 18 19 20

18



Dethi:



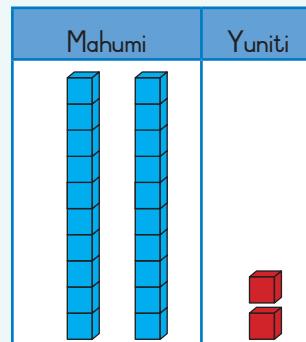
## Vhuimo ha nomboro u swika kha 99

U sumbedza nomboro ni tshi shumisa zwithu

Ri a kona u sumbedza nomboro nga zwibuloko zwa vhuimo ha nomboro.

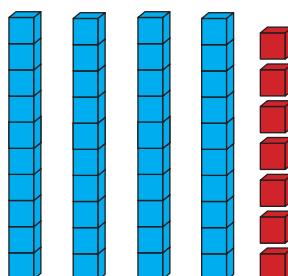
Tshibuloko tshituku tshi imela 1. Ndi yuniti.

Rodo ya zwibuloko zwituku zwa 10 i imela 10. Ndi 10.



Ni nga sumbedza nomboro ni tshi shumisa mahumi na yuniti.

Ni nga sumbedza **47** nga hei ndila.



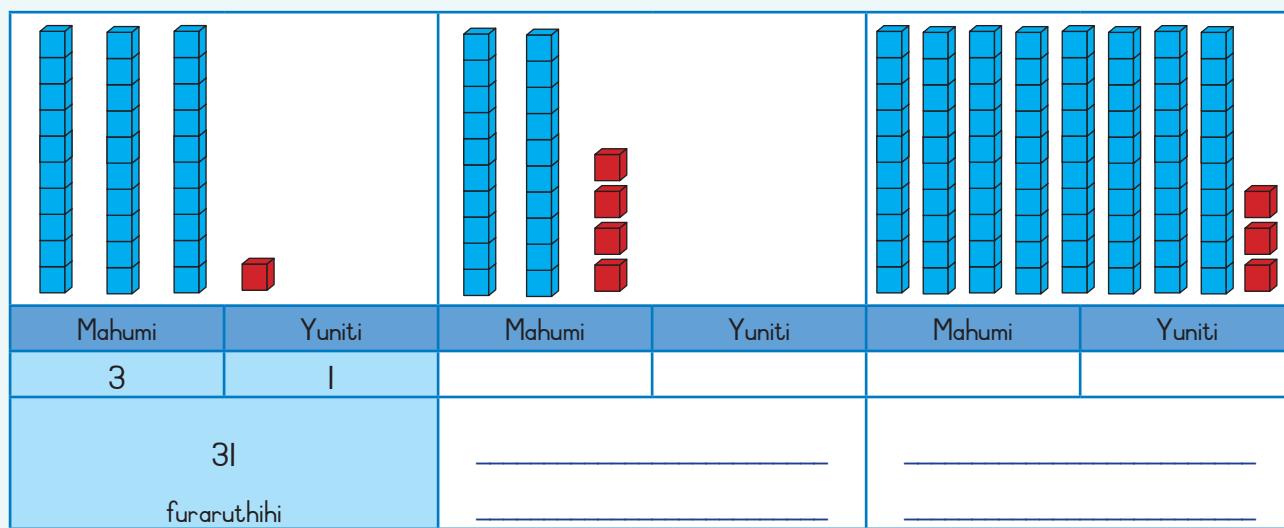
| Mahumi | Yuniti |
|--------|--------|
| 4      | 7      |

fuiñasumbe  
47



## U ñwala nomboro nga dzididzhiti na maipfi

- a. Nga fhasi ha tshifanyiso, ñwalani uri hu na mahumi mangana na uri hu na yuniti nngana.  
Ni kone u ñwala nomboro nga zwiga na maipfi.





20 6

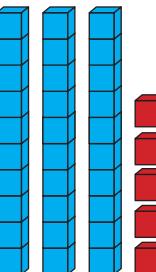
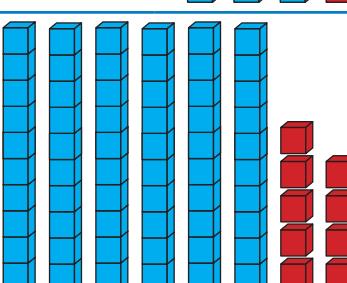
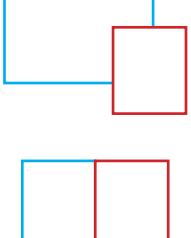
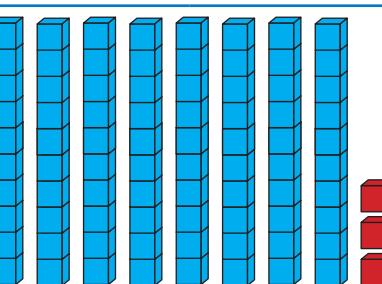
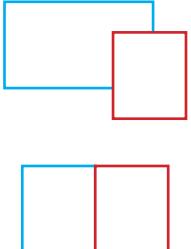
2 6

b. Ri nga kha di shumisa na garaṭa dza nomboro kha u zwi sumbedza.

| Nomboro | Ndi madana mangana? | Hu na yuniti nngana? | Nwalani nomboro nga maipfi |
|---------|---------------------|----------------------|----------------------------|
| 26      | 2                   | 6                    | Fumbilirathi               |
| 46      |                     |                      |                            |
| 99      |                     |                      |                            |



Nomboro ndi ifhio?

|   |   |  |        |        |   |   |
|---|---|--|--------|--------|---|---|
|  | <p>3 0 5<br/>3 5</p>  | <table border="1"> <tr> <td>Mahumi</td> <td>Yuniti</td> </tr> <tr> <td>3</td> <td>5</td> </tr> </table> <p>furarut<u>hanu</u><br/>35</p> | Mahumi | Yuniti | 3 | 5 |
| Mahumi  | Yuniti  |  |        |        |   |   |
| 3   | 5   |  |        |        |   |   |
|  |  | <table border="1"> <tr> <td>Mahumi</td> <td>Yuniti</td> </tr> <tr> <td></td> <td></td> </tr> </table> <p>_____</p>                       | Mahumi | Yuniti |   |   |
| Mahumi  | Yuniti  |  |        |        |   |   |
|   |   |  |        |        |   |   |
|  |  | <table border="1"> <tr> <td>Mahumi</td> <td>Yuniti</td> </tr> <tr> <td></td> <td></td> </tr> </table> <p>_____</p>                       | Mahumi | Yuniti |   |   |
| Mahumi  | Yuniti  |  |        |        |   |   |
|   |   |  |        |        |   |   |



11 12 13 14 15 16 17 18 19 20

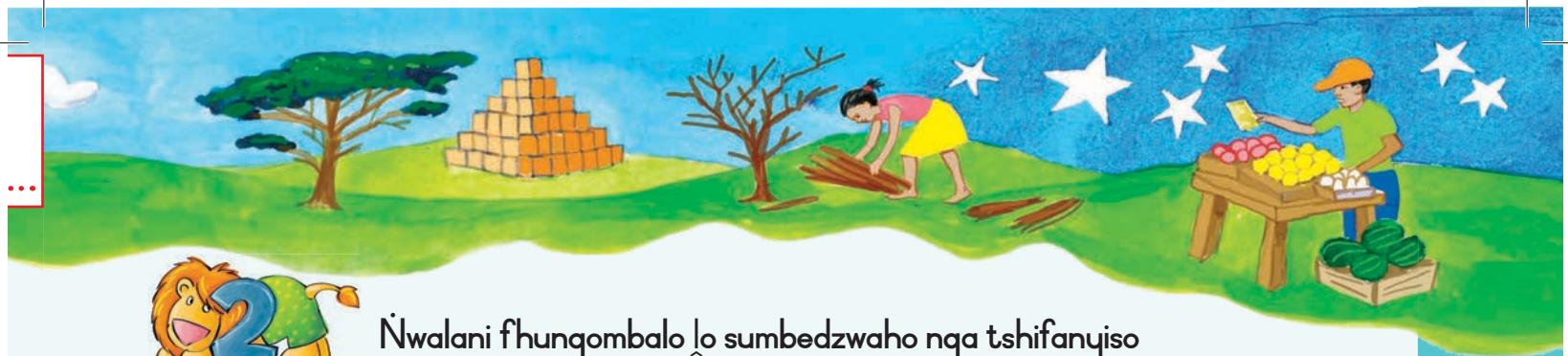


## U vhea mahumi fhethu huthihi musi ri tshi ṭanganya na 99

| <p>Iñwe ndila ya u sumbedza 22 khei.</p> <table border="1"> <thead> <tr> <th>Mahumi</th> <th>Yuniti</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>fumi 1 nthihi dza 12</p> <p>10 10 2</p> | Mahumi | Yuniti |  |  | <p>Hu na yuniti dza 12.</p> <p>Ri do vhea 10 wadzo kha tshigwada.</p> <p>Ri do vhea yuniti dza 10 kha tshigwada</p> | <p>Zwino ri na iñwe ndila ya u sumbedza 22.</p> <table border="1"> <thead> <tr> <th>Mahumi</th> <th>Yuniti</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>mahumi 2 nthihi 2</p> <p>2 2</p> | Mahumi | Yuniti |  |  |
|---|--------|--------|--|--|---|---|--------|--------|--|--|
| Mahumi  | Yuniti |        |  |  |   |   |        |        |  |  |
|   |        |        |  |  |   |   |        |        |  |  |
| Mahumi  | Yuniti |        |  |  |   |   |        |        |  |  |
|   |        |        |  |  |   |   |        |        |  |  |

Kha ri ṭanganye  $27 + 4$ . Zwibuloko zwa lutombo ndi zwone zwine ra thoma ngazwo. Zwa pinki ndi zwone zwine ra khou ṭanganyisa khazwo.

| <p>27 ndi mahumi a 2 na yuniti dza 7.</p> <p>Ra kona u ṭanganya yuniti dza 4.</p> <table border="1"> <thead> <tr> <th>Mahumi</th> <th>Yuniti</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>2 wa mahumi yuniti dza 7 + yuniti dza 4</p> <p>2 0 7 4</p> | Mahumi | Yuniti |  |  | <p>Ri na mahumi a 2 na yuniti dza 11.</p> <table border="1"> <thead> <tr> <th>Mahumi</th> <th>Yuniti</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>Ri nga sumbedza yuniti dza 10 sa fumi nthihi</p> <p>2 0 1 0 1</p> | Mahumi | Yuniti |  |  | <p>Zwino ri na Mahumi 3 + yuniti 1 = 31</p> <table border="1"> <thead> <tr> <th>Mahumi</th> <th>Yuniti</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p><u>  </u> + <u>  </u> = <u>  </u></p> <p>3 1</p> | Mahumi | Yuniti |  |  |
|---|--------|--------|--|--|--|--------|--------|--|--|---|--------|--------|--|--|
| Mahumi  | Yuniti |        |  |  |  |        |        |  |  |   |        |        |  |  |
|   |        |        |  |  |  |        |        |  |  |   |        |        |  |  |
| Mahumi  | Yuniti |        |  |  |  |        |        |  |  |   |        |        |  |  |
|   |        |        |  |  |  |        |        |  |  |   |        |        |  |  |
| Mahumi  | Yuniti |        |  |  |  |        |        |  |  |   |        |        |  |  |
|   |        |        |  |  |  |        |        |  |  |   |        |        |  |  |



## Nwalani fhungombalo lo sumbedzwaho nga tshifanyiso

| Mahumi               | Yuniti               | Mahumi               | Yuniti               | Mahumi               | Yuniti               |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                      |                      |                      |                      |                      |                      |
| <input type="text"/> |
| 10 + 5 + 6           | — + — + —            | — + — = —            |                      |                      |                      |

Fhedzisani zwifanyiso. Nwalani mafhungombalo a re tshifanyisoni.

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



# 20a

Dethi:

Themo ya |

## Tanganyani kha mutalombalo

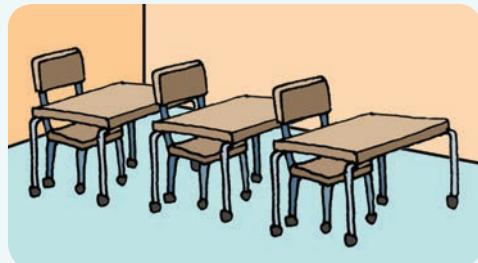
Dzulani desiken iyanu!

Tshikoloni tshashu mugudi muñwe na muñwe u na desike yawe.

Hu na vhagudi vha 46 kha Gireidi 3A na vha 24

kha Gireidi 3B.

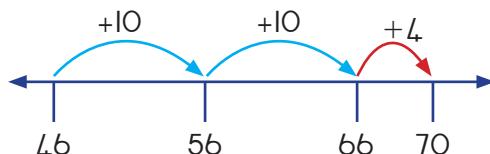
Ndi desike nngana dzine ra ṭoda kīlasini vhuvhili hadzo?



Shumani na muñwe nga inwi

Lavhelesani uri vhagudi avha vhararu vho shumisa hani mutalombalo kha u tandulula thaidzo.

Fhedzisani mbalo ni tshi shumisa tsumbo iyi.



Zwine nda ita ndi hezwi: Ndi thoma nga u ṭanganyisa 10. Izwi zwi ntswikisa kha 56.

U bva hone nda fhufha iñwe 10 nda swika kha 66.

Maf' hedziseloni, ndi fhufha nga 4 haf'hu nda swika kha 70.

Sumbedzani nga garata dzañu dza nomboro.

$$= 46 + 10 + 10 + 4$$

$$= 56 + 10 + 4$$

$$= 66 + 4$$

$$= 70$$

Ndi tea u  
ṭanganya 24  
kha 46.



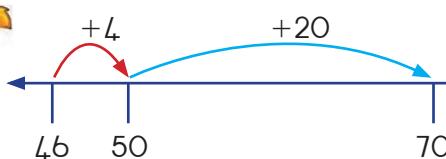
a.  $32 + 25 =$

← →



b.  $52 + 26 =$

c.  $46 + 25 =$



Ndi tea u  
tanganya 24  
kha 46.



Zwine nda ita ndi hezwi: Ndi thoma nga u fhufha 4. Zwi do ntswikisa kha 50.  
Ndi pfuka nga 20 hafhu, zwa ntswikisa kha 70.

Sumbedzani nga garaṭa dzaṇu dza nomboro.

$$= 40 + 10 + 20$$

$$= 50 + 20$$

$$= 70$$

a.  $36 + 41 =$



11 12 13 14 15 16 17 18 19 20

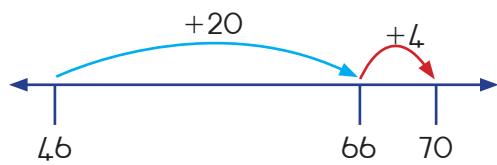
20b

Dethi:

Themo ya |

## Tanganyani kha mutalombalo (hu iswa phanda)

b.  $57 + 19 =$



Ndi tea u tanganya 24 kha 46.



Zwine nda ita ndi hezwi: U bva kha 46, ndi fhufha nga 20. Zwi ntswikisa kha 66. Zwino ndi tea u fhufha nga 4 nda kona u swika kha 70.

Ri nga kha di shumisa na gara ta dza nomboro

$$= 46 + 20 + 4$$

$$= 66 + 4$$

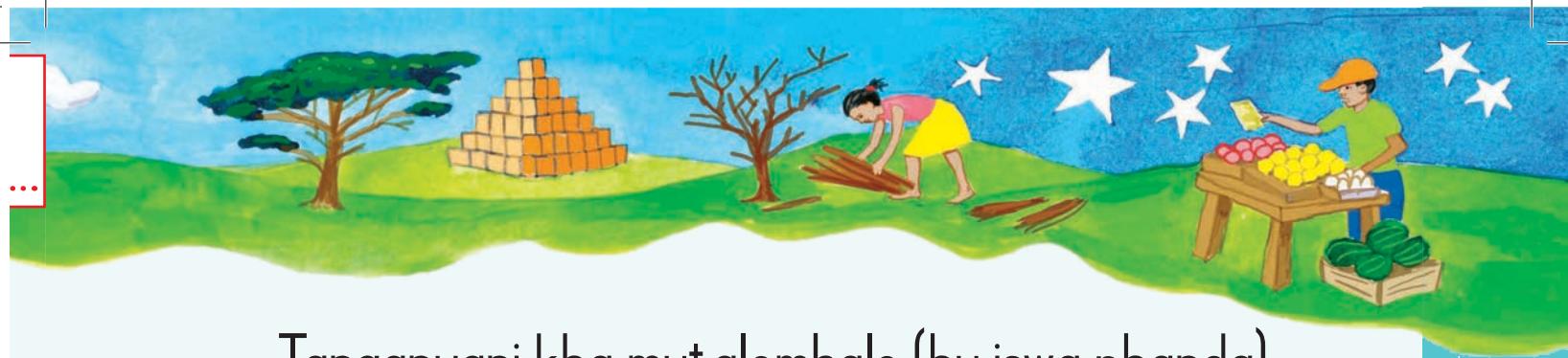
$$= 70$$

a.  $63 + 24 =$



b.  $65 + 29 =$





## Tanganyani kha mutalombalo (hu iswa phanda)



Ndi lofo nngana?

Mubaki u disa lofo dza 54 dza burauni na dza 68 tshena .

Ndi lofo nngana dzo tangana dzothe?

- a. Wanani thanganyelo kha mutalombalo. Sumbedzani **nomboro** na **saizi** dza kufhufhele.



Tanganyani zwi tevhelaho. Shumisani ndila yanu. Shumisani ngona (ndila) iñwe na iñwe ine na funa.

$38 + 24 =$

$58 + 17 =$



$75 + 16 =$

$83 + 29 =$



# 2la

Dethi:

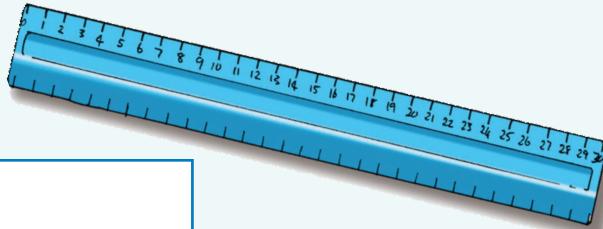
Themo ya |

## Tusani kha mutalombalo

Mugudi muthihhi! Rula nthihhi!

Kilasi i toda rula dza 53. Ri na dza 35 fhedzi.

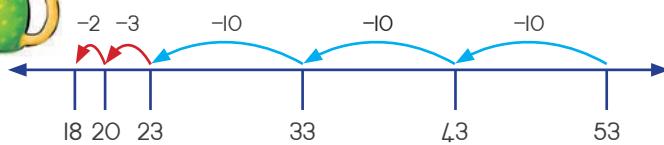
Ndi nngana dzine ra dici toda?  $53 - 35 =$



Shumani na muñwe nga inwi

Vhalani uri vhagudi vhararu vhenevhala vhathihhi vha shumisa hani mutalombalo af'ha.

Fhedzisani thanganyelo ni tshi shumisa tsumbo.



Ndi tea u tusa 35 kha 53.

Muuso zwi amba u bvisa.



Ndi do thoma kha 53 nda tusa. Ndi do bvisa 10, 10, 10 – izwo zwi do ntswikisa kha 23. Zwino ndi tea u bvisa thanu, ndi thoma nga u tusa 3, nda swika kha 20. Ndi tusa hafhu 2 nda wana 18. Zwi amba uri ri toda rula dza 18.

$$= 53 - 10 - 10 - 10 - 3 - 2$$

$$= 43 - 10 - 10 - 3 - 2$$

$$= 33 - 10 - 3 - 2$$

$$= 23 - 3 - 2$$

$$= 20 - 2$$

$$= 18$$



a.  $68 - 24 = \boxed{\phantom{00}}$

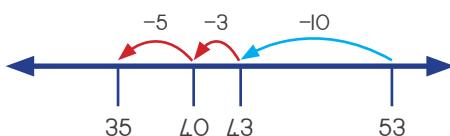
← →

b.  $74 - 38 = \boxed{\phantom{00}}$

← →

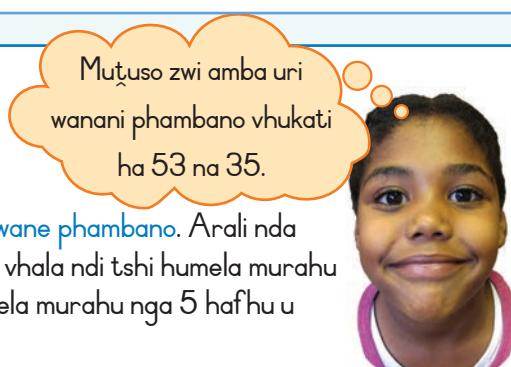
c.  $92 - 87 = \boxed{\phantom{00}}$

← →



Ndi do thoma kha 53 nda vhala ndi tshi **humela kha** 35 uri **ndi wane phambano**. Arali nda vhala ndi tshi humela murahu nga 10, ndi swika kha 43. Ndi nga vhala ndi tshi humela murahu nga 3 haf'hu u swika kha 40. U bva af'ho nda vhala ndi tshi humela murahu nga 5 haf'hu u swika kha 35.

10 ra ḫanganya na 3 ra ḫanganya na ḫhanu ndi **18**. Zwi amba uri ri ḫoda ruļa dziňwe dza 18.



a.  $38 - 14 = \boxed{\phantom{00}}$

← →



11 12 13 14 15 16 17 18 19 20

2lb

Dethi:

Themo ya |

## Tusani kha mutalombalo (hu iswa phanda)

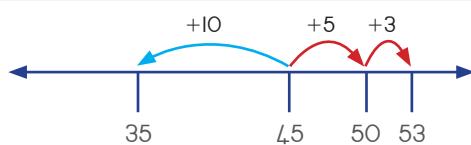
b.  $65 - 43 =$



c.  $72 - 39 =$



d.  $85 - 48 =$



Ndi nga thoma kha 35  
nda vhona uri ndi nga  
pfuka lungana u vhala u  
swika kha 53.



Ndi nga thoma kha 35 nda vhona uri ndi nga pfuka  
lungana u vhala **u swika kha** 53. Fumi ra ṭanganya na ṭhanu ra ṭanganya na raru  
ndi 18. Ri ṭoda ruļa dziňwe dza 18.

a.  $84 - 32 =$





b.  $96 - 53 =$

← →

c.  $78 - 19 =$

← →

d.  $63 - 47 =$



### U tshimbila nga thekhisi

Lwendo lwa u ya doroboni nga thekhisi ndi km dza 65.

U swika zwino thekhisi yo tshimbila km dza 38.

Ho sala tshikhala tshingafhani?

Shumisani mutalombalo kha u tandulula thaidzo iyi. Ni nga tusa, u vhala ni tshi ya phanda kana murahu. Leibelani he na fhufha na nomboro kha mutalombalo.



← →

km





### Pulane ya u thoma!

Busi u humbela khonani dzawe uri dzi khethe zwiliwa zwa phathi zwine vha zwi funesa.  
Hezwi ndi zwe a kuvhanganya. Mu thuseni u vhekanya.



Vhalani, ni ንwale uri ndi khonani nngana dzo nangaho lushaka luñwe na luñwe lwa zwiliwa.

|         |  |  |  |  |
|---------|--|--|--|--|
|         |  |  |  |  |
| Nomboro |  |  |  |  |



Fhedzisani girafu ya zwifanyiso. Shumisani thebulu yanu uri i ni thuse.

Olani tshifhatuwo tshithihi (😊) kha nwana muñwe na muñwe ane a nanga lushaka lwo raloho lwa tshiliwa kana tshinwiwa.

|          |                |         |                     |
|----------|----------------|---------|---------------------|
|          |                |         |                     |
|          |                |         |                     |
|          |                |         |                     |
|          |                |         |                     |
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| 😊        |                |         |                     |
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| 😊        |                |         |                     |
| 😊        |                |         |                     |
| 😊        |                |         |                     |
| 😊        |                |         |                     |
| 😊        |                |         |                     |
| 😊        |                |         |                     |
| 😊        |                |         |                     |
| Lemonade | Ice cream cone | Cupcake | Wrapping paper roll |

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

23

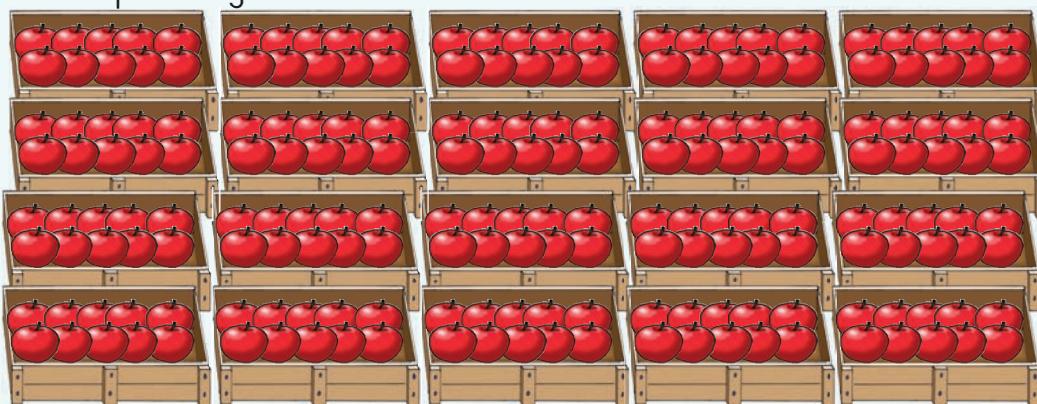
Dethi:

Themo ya I



## U vhabla u swika kha 200

Ndi maapula mangana ane na kona u a vhona?



Dzhenisani nomboro

Bogisi  $\underline{1}$   $\underline{1}$  na maapula a

Rou ya  $\underline{1}$   $\underline{1}$  na maapula a

Rou ya  $\underline{1}$   $\underline{1}$  na mabogisi a

Rou dza  $\underline{4}$   $\underline{4}$  dizi na maapula a



Hu na maapula a 10 bogisini  $\underline{\underline{1}}$  $\underline{\underline{1}}$ we na  $\underline{\underline{1}}$  $\underline{\underline{1}}$ we. Ndi maapula mangana a re hone?

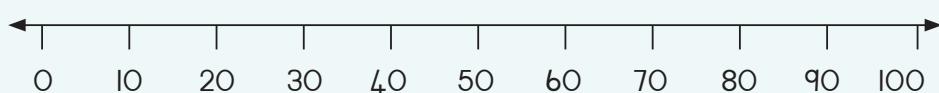


Zwisumbedzeni kha mutualombalo.

a. Hu  $\underline{d}\underline{o}$  vha na maapula mangana mabogisini mat $\underline{\underline{a}}$ nu?



b. Hu  $\underline{d}\underline{o}$  vha na maapula mangana mabogisini a sumbe?





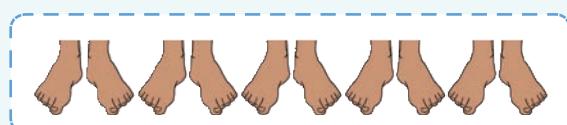
zwi<sup>th</sup>opho (loto) zwa 3 zwa 10 zwi ita –  $3 \times 10 =$  30 kana  $10 \times 3 =$  30

zwi<sup>th</sup>opho zwa 5 zwa 10 zwi ita –   $\times$   =  kana   $\times$   =

zwi<sup>th</sup>opho zwa 2 zwa 10 zwi ita –   $\times$   =  kana   $\times$   =

Phere dza 5 dza milenzhe.

Hu na zwikunwe zwingana zwo ṭangana zwot<sup>he</sup>?



$$10 + 10 + 10 + 10 + 10 =$$
5 0

$$5 \times 10 =$$

kana  $10 \times 5 =$

Shumisani ndila yeneyi kha u shuma hedzi.

Phere dza 4 dza nayo. Hu na zwikunwe zwingana zwo ṭangana zwot<sup>he</sup>?

$$\underline{\quad} = \boxed{\quad} \quad \underline{\quad} \times \underline{\quad} = \boxed{\quad} \text{ kana } \underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

Phere dza 3 dza nayo. Hu na zwikunwe zwingana zwo ṭangana zwot<sup>he</sup>?

$$\underline{\quad} = \boxed{\quad} \quad \underline{\quad} \times \underline{\quad} = \boxed{\quad} \text{ kana } \underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

Kha ri vhale (vhalele)



10, 20, 30, 40, 50, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 200



11 12 13 14 15 16 17 18 19 20

24

Dethi:

Themo ya |

## U ita ndowendowe nga 5



Hu na khovhe nngana? Anganyelani



Zwino vhalani khovhe. Wanani ḫhanganyelo.



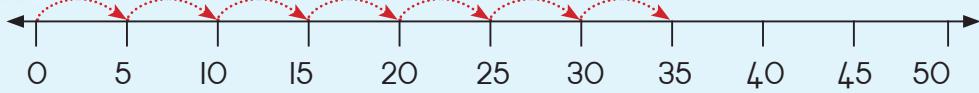
### Vhalani nga 5

Wanani ḫhanganyelo yothe ya makumba a khovhe. Nwalani fhungombalo la + na X. Ro ni itela ya u thoma.

| Khovhe na makumba                                 | Hu na makumba mangana o ḫangana othe? |
|---|---------------------------------------|
| Khovhe dza 5, iñwe na iñwe i kudzela makumba a 2  | $2 + 2 + 2 + 2 + 2 = 10$              |
| Khovhe dza 5, iñwe na iñwe i kudzela makumba a 10 |                                       |
| Khovhe dza 5, iñwe na iñwe i kudzela makumba a 4  |                                       |
| Khovhe dza 5, iñwe na iñwe i kudzela makumba a 3  |                                       |
| Khovhe dza 5, iñwe na iñwe i kudzela makumba a 6  |                                       |
| Khovhe dza 5, iñwe na iñwe i kudzela makumba a 8  |                                       |
| Khovhe dza 5, iñwe na iñwe i kudzela makumba a 5  |                                       |

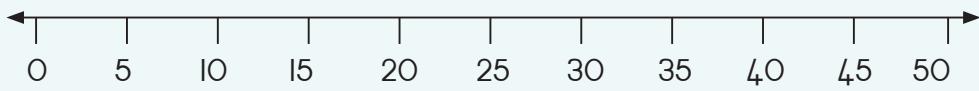


Fhedzisani mafhungombalo na mitalombalo



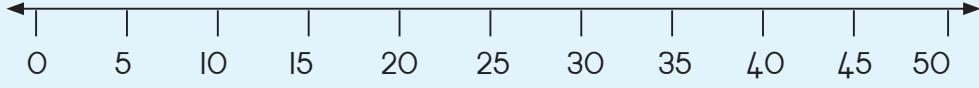
$$5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{35} \text{ kana } \boxed{7} \times \boxed{5} = \boxed{35}$$

a.



$$5 + 5 + 5 + 5 = \boxed{\quad} \text{ kana } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

b.



$$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{\quad} \text{ kana } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

c.



$$\underline{\quad} + \underline{\quad} = \boxed{\quad} \text{ kana } 10 \times 5 = 50$$



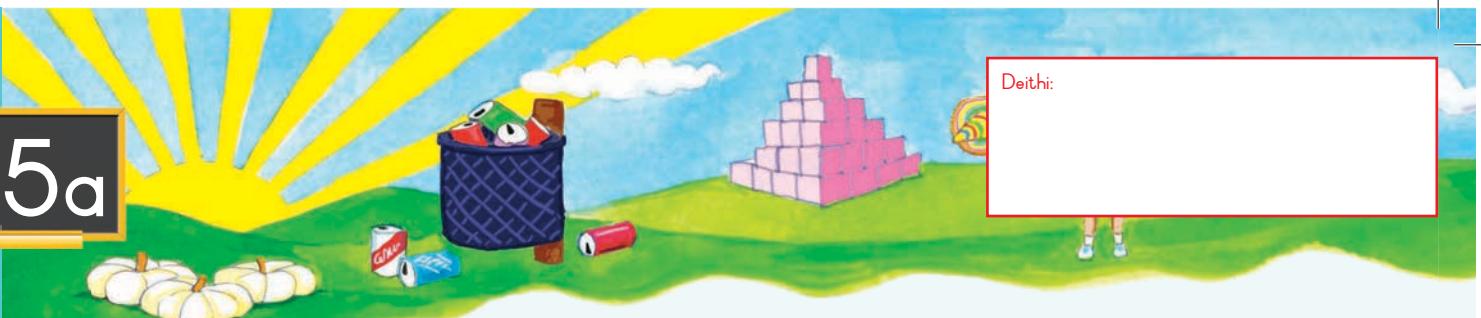
Urea khovhe

Sipho u fasha khovhe dzi re vhukati ha 40 na 50. U dzi vhala nga dzi 2 ha vha na ya 1 yo salaho.

U dzi vhala nga dzi 5 ha vha na dza 2 dzo salaho. Sipho u fasha khovhe nngana?



25a



Themo ya |

## Vhalani nga 2



U vhalala masogisi



- Hu na phere nngana dza masogisi? \_\_\_\_\_
- Hu na masogisi mangana? \_\_\_\_\_
- Hu na masogisi o salaho? \_\_\_\_\_



## U vhala phere dza masogisi

Nwalani uri hu na phere nngana dza masogisi ni ambe arali hu na o salaho.

| Masogisi | Tshivhalo tsha phere | Tshivhalo tsha sogosi | Ho sala sogisi nthihi |
|----------|----------------------|-----------------------|-----------------------|
|          |                      |                       |                       |
|          |                      |                       |                       |
|          |                      |                       |                       |
|          |                      |                       |                       |
|          |                      |                       |                       |



25b



Themo ya |



### Uvhala nga 2 (u iswa phanda)

#### Ufhaṭa phere

Nwalani nomboro dza ivini na dza odo u thoma kha l u swika kha 60.

- a. Nwalani nomboro dza ivini dza u thoma kha l – 60.

2, 4, 6,

---

---

- b. Nwalani nomboro dza odo dza u thoma kha l – 60.

3, 5, 7,

---

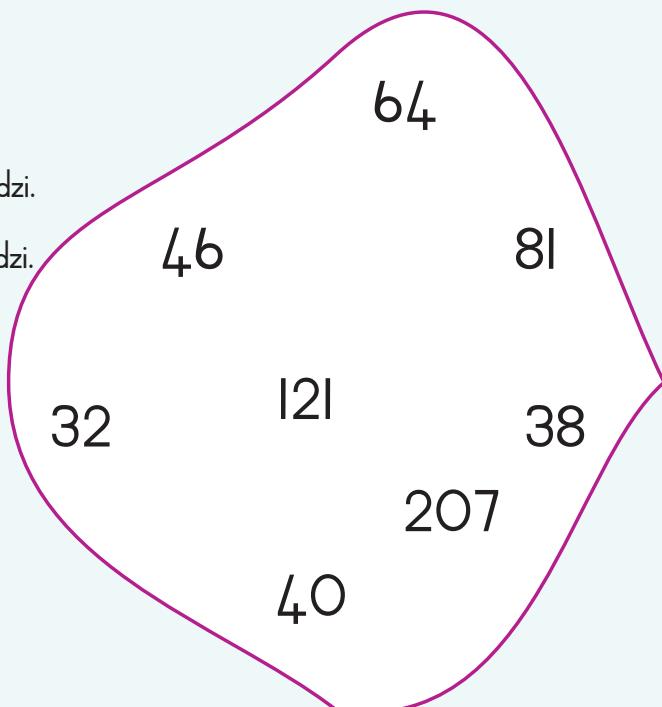
---



### Dziodo na dziiivini

Tangedzelani nomboro dza ivini nga zwitendeledzi.

Tangedzelani nomboro dza odo nga zwitendeledzi.





## Ubva kha phere u ya kha masogisi



Tsumbo:

Sogisi dza 2 = phere ya 1 

$$2 \times 1 = 2$$

Sogisi dza 20 = phere dza 10

$$2 \times 10 = 20$$

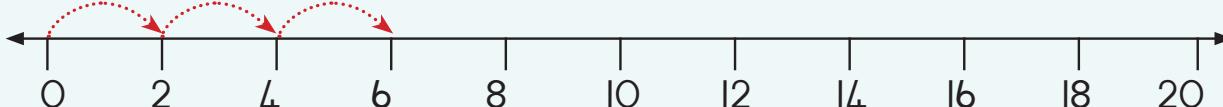
a. Nwalani uri ndi masogisi mangana.

| Humbulani nga 2            | Fhungombalo   |
|----------------------------|---|
| 1 phere = masogisi a 2     | <input type="text"/> 2 $\times$ <input type="text"/> 1 = <input type="text"/> 2 |
| 2 phere = masogisi a _____ | <input type="text"/> 2 $\times$ <input type="text"/> 2 = <input type="text"/>   |
| 4 phere = masogisi a _____ |   |
| 8 phere = masogisi a _____ |   |
| 9 phere = masogisi a _____ |   |

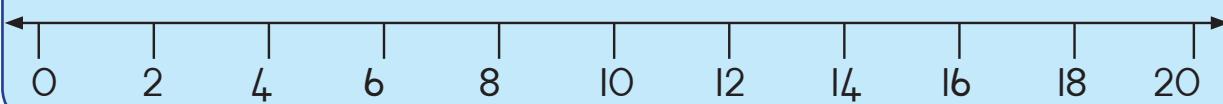
b. Sumbedzani mbalo kha mutalombalo ni fhedzise.

Tsumbo:

$$2 + 2 + 2 = 6 \text{ kana } 3 \times 2 = 6$$



$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\phantom{00}} \text{ kana } \boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



## Tshelede kale na zwino



**Nganetshelo ya tshelede yashu**

Afrika Tshipembe ri shumisa dzirannda na masenthe sa tshelede yashu.  
Ro thoma u shumisa dzirannda na masenthe nga 1961.

Tshif'hingani tshenetsho khoini ya senthe 1 yo vha i thukhusa, ha tevhela ya 2 senthe  
ha kona u da 5 senthe.





### Vhalani masenthe

Vhalani masenthe.

Ndi masenthe mangana ane na vha nao?

Hu todea manwe mangana uri a ite R1,00?

A oleni kha tshibuloko



### Ndi masenthe mangana?

|                                |                                |
|--------------------------------|--------------------------------|
| R1,00 = <input type="text"/> c | R2,00 = <input type="text"/> c |
| R3,00 = <input type="text"/> c | R1,50 = <input type="text"/> c |



### Tshi dura vhugai?



ya 2 i ita R4,00.

Ni wana miomva mingana nga R20,00?



a 2 a ita R2,00.

Ni wana maqpula mangana nga R9,00?



27



Dethi:

Themo ya |

## U vhala nga 3



Malinga nga 3



Baisigira ya l ya malinga mararu (thiraisikili) i na malinga a \_\_\_\_\_.



thiraisaikili dza 5 dzi na malinga a \_\_\_\_\_

$$3 + 3 + 3 + 3 + 3 = 5 \times 3 = _____$$

thiraisaikili dza 2 dzi na malinga a \_\_\_\_\_

$$3 + 3 = 2 \times 3 = _____$$

thiraisaikili dza 4 dzi na malinga a \_\_\_\_\_

thiraisaikili dza 6 dzi na malinga a \_\_\_\_\_

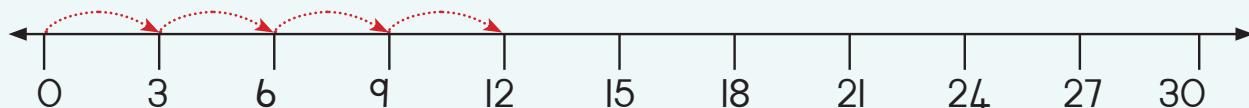
thiraisaikili dza 9 dzi na malinga a \_\_\_\_\_

thiraisaikili dza 8 dzi na malinga a \_\_\_\_\_



Mitalombalo

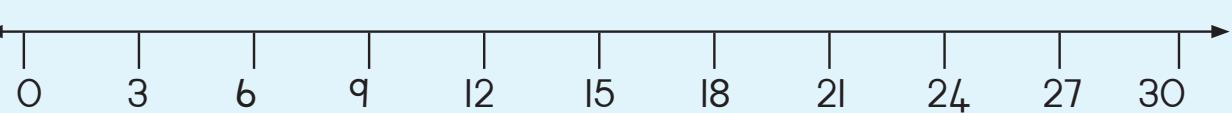
Tevhedzani tsumbo



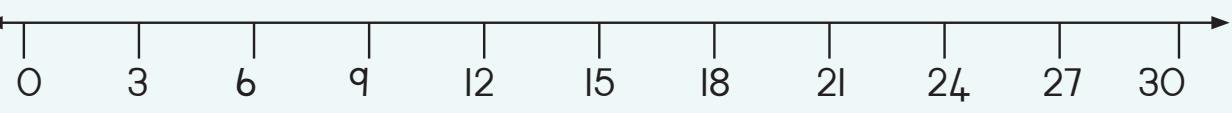
a.  $3 + 3 + 3 + 3 = \boxed{\quad} = 4 \times 3 = \boxed{\quad}$



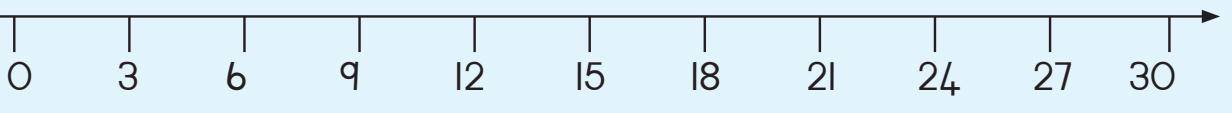
b.

3 + 3 + 3 + 3 + 3 =  =  ×  = 

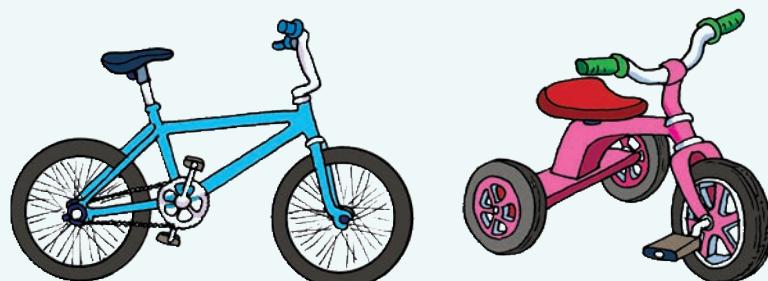
c.

\_\_\_\_\_ =  = 6 × 3 = 

d.

\_\_\_\_\_ =  = 10 × 3 = 

Baisigira dza malinga mavhili na baisigira dza malinga mararu



Vhengeleni la baisigira Mulanga u vhala malinga a baisigira dza malinga mavhili na a baisigira dza malinga mararu. Hu na malinga a 14 o tangana.

Hu na baisigira nngana dza malinga mavhili? \_\_\_\_\_

Hu na baisigira dza malinga mararu nngana? \_\_\_\_\_

Teacher:  
Sign:

Date:

28

Dethi:

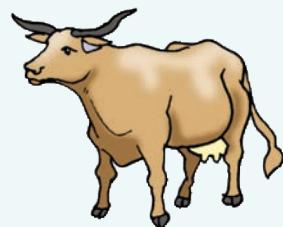
Themo ya |

## Ndi zwifhio zwi no tshimbila nga 4?



Milenzhe miña

Zwiñwevho nga nomboro 4 ...  
 $4 + 4 = 8; 2 \times 4 = 8$



Milenzhe ya kholomo ndi 4.

Ndi mini tshiñwe hafhu tshine tsha vha zwiñazwiñā? \_\_\_\_\_



Uvhala milenzhe

Kovhanani phindulo.  
 Talutshedzani zwe na ita.

Shumisani zwine na zwi ñivha nga 4 ni tshi f'hindula mbudziso idzi.

|  |   |
|--|---|
| Kholomo  ya 1 milenzhe ya <input type="text" value="4"/> | Kholomo dza 2  milenzhe ya <input type="text" value="8"/> |
| Kholomo  dza 3 milenzhe ya <input type="text"/>          | Kholomo dza 4  milenzhe ya <input type="text"/>           |
| Kholomo  dza 5 milenzhe ya <input type="text"/>          | Kholomo dza 6  milenzhe ya <input type="text"/>           |
| Kholomo  dza 7 milenzhe ya <input type="text"/>          | Kholomo dza 8  milenzhe ya <input type="text"/>           |
| Kholomo  dza 9 milenzhe ya <input type="text"/>          | Kholomo dza 10  milenzhe ya <input type="text"/>          |



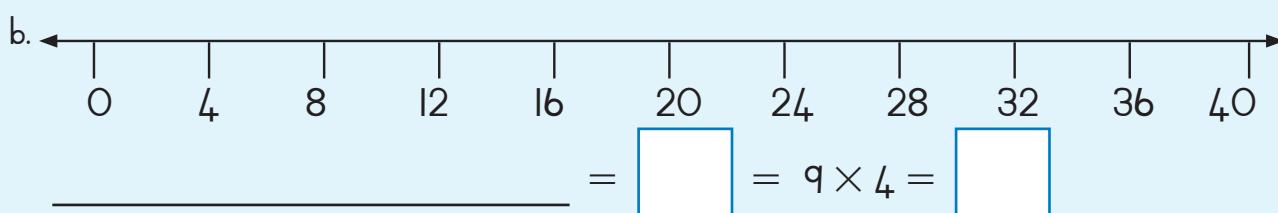
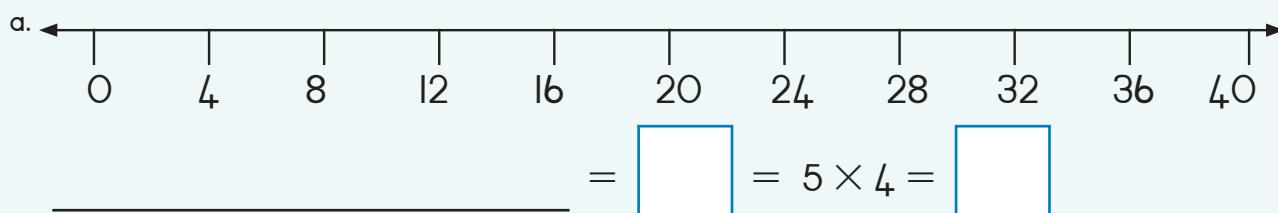
Fhedzisani thebulu i re afho fhasi.  
Shumisani tsumbo uri l i ni dedeze.

|  |                                      |
|--|--------------------------------------|
| kholomo dza 3 dzi na milenzhe ya _____ | $4 + 4 + 4 = 4 \times 3 =$ <u>12</u> |
| kholomo dza 5 dzi na milenzhe ya _____ |                                      |
| kholomo dza 4 dzi na milenzhe ya _____ |                                      |
| kholomo dza 7 dzi na milenzhe ya _____ |                                      |
| kholomo dza 8 dzi na milenzhe ya _____ |                                      |



### Mitalombalo

Fhedzisani zwi tevhelaho ni zwi sumbedze kha matalombalo.



29

Dethi:

Themo ya |



## Phetheni dza giridi

Ndi phetheni ifhio ya nomboro ine zvitendeledzi zwiñwe na zwiñwe zwi re kha giridi ya 100 zwa sumbedza?

Olani zvitendeledzi zwiñwe nga nt̄ha ni tshi fhedzisa phetheni iñwe na iñwe.

Nwalani dzina la phetheni iñwe na iñwe.

a. Phetheni: \_\_\_\_\_

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b. Phetheni: \_\_\_\_\_

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c. Phetheni: \_\_\_\_\_

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d. Phetheni: \_\_\_\_\_

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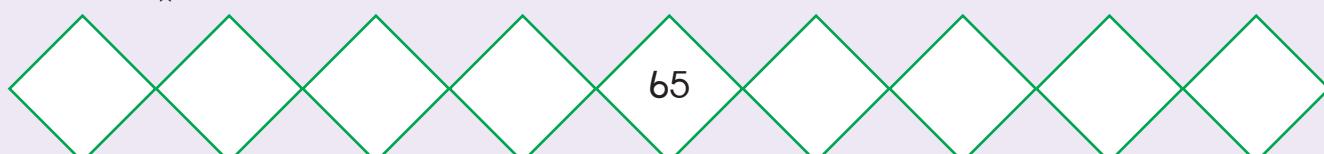


## U ita phetheni dza<sub>ñ</sub>u inwi muñé

- a. Kha phetheni ya nomboro iyi nomboro dzothé ndi ivini. Dziñwe nomboro dzi nga vha dzi nomborode? Dzi ñwaleni.



- b. Kha phetheni ya nomboro, nomboro dzothé ndi dza odo. Dziñwe nomboro dzi nga vha dzi nomborode? Dzi ñwaleni.



Dzi wela ngafhi?



| Phetheni dza 3 na dza 4 | Phetheni dza 3 na dza 5 | Phetheni dza 4 na dza 5 |
|-------------------------|-------------------------|-------------------------|
| tsumbo: 48              |                         |                         |



Lwanzheni

Thembi u kuvhanganya khamba dza khumba dza lwanzheni dza vhukati ha **60 na 70**. U dzi vhala nga 3, u na 1 yo salaho. Nomboro dzine dza nga konadzea ndi: 61, \_\_\_\_\_, \_\_\_\_\_, 70. Musi a tshi dzi vhala nga t̄hanu (dzi5), u na tshit̄ahé tsha 4. Nomboro dzine dza nga konadzea ndi: \_\_\_\_\_, \_\_\_\_\_.

Thembi u na khamba nngana? \_\_\_\_\_.



Teacher:  
Sign:  
Date:

11 12 13 14 15 16 17 18 19 20

30a

Dethi:

Themo ya |

## Mukovho



Kovhani malegere



- a. Kovhelani vhana vha 2 malegere a 30.



Ri nga i nwala sa

$$30 \div 2 = 15$$

- b. Kovhelani vhana vha 3 malegere.



$$\div =$$

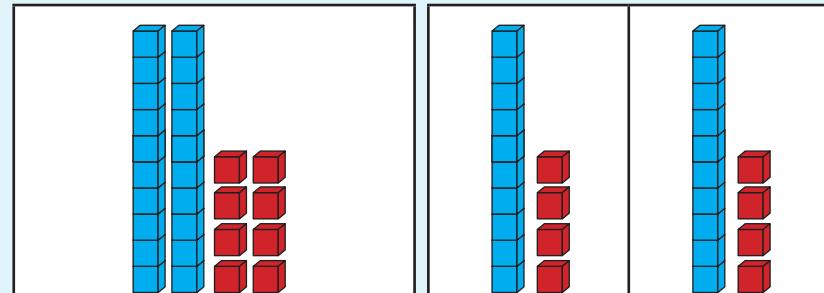
- c. Kovhelani vhana vha 5 malegere.



$$\div =$$



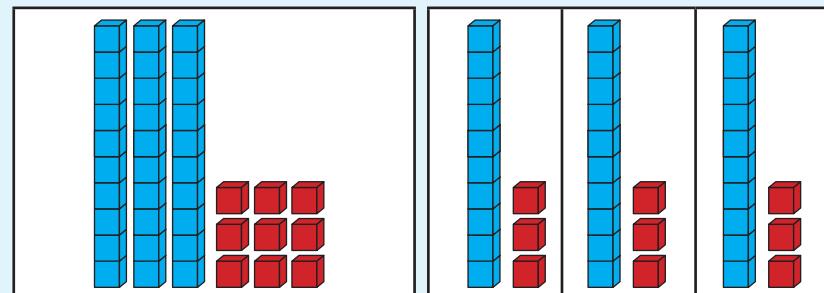
Ri nga shumisa zwibuloko zwa nomboro kha mukovho.



$$\begin{array}{r} 2 \textcolor{blue}{8} \\ \div \textcolor{red}{2} \\ \hline \end{array} = \begin{array}{r} 1 \textcolor{blue}{4} \\ \hline \end{array}$$

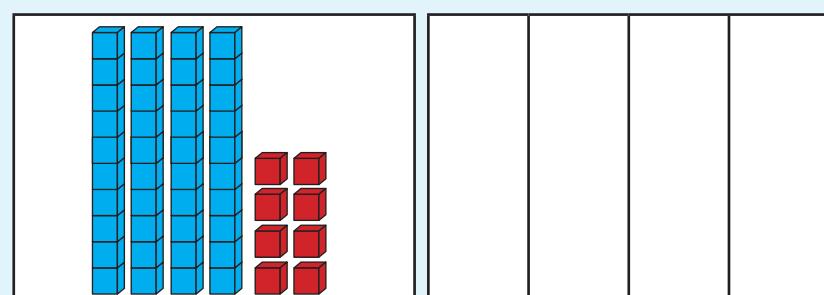
Zwino shumani hedzi.

a.



$$\begin{array}{r} \textcolor{cyan}{2} \textcolor{red}{8} \\ \div \textcolor{red}{3} \\ \hline \end{array} = \begin{array}{r} \textcolor{cyan}{1} \textcolor{red}{4} \\ \hline \end{array}$$

b.



$$\begin{array}{r} \textcolor{cyan}{2} \textcolor{red}{8} \\ \div \textcolor{red}{4} \\ \hline \end{array} = \begin{array}{r} \textcolor{cyan}{1} \textcolor{red}{4} \\ \hline \end{array}$$



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

30b



Dethi:

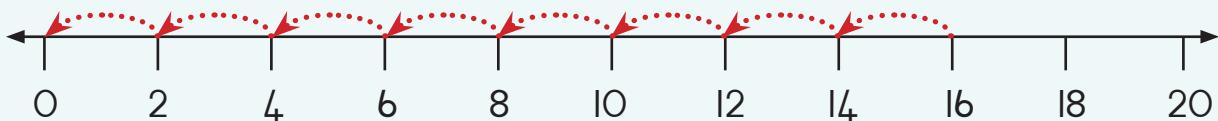
Themo ya I



## Mukovho (dzi iswa phando)

Shumisani mitalombalo kha u kha u nwala fhungombalo la mutuso na la mukovho.

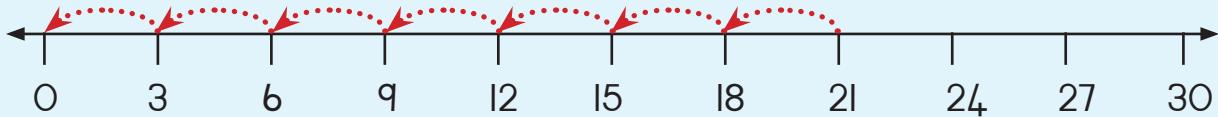
Tsumbo:



$$16 - 2 - 2 - 2 - 2 - 2 - 2 - 2 = 0$$

$$16 \div 2 = 8$$

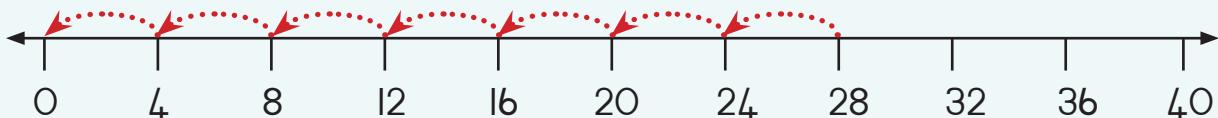
a.



$$21 - \underline{\quad} =$$

$$\boxed{\quad} \div \boxed{\quad} =$$

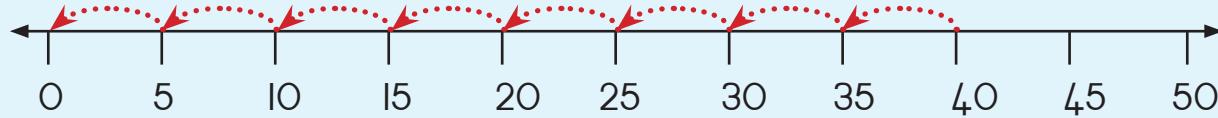
b.



$$28 - \underline{\quad} =$$

$$\boxed{\quad} \div \boxed{\quad} =$$

c.



$$\underline{\quad} - \underline{\quad} =$$

$$\boxed{\quad} \div \boxed{\quad} =$$



Talani mutalombalo ni u saukanye.

a.  $30 \div 5 =$



b.  $22 \div 2 =$



c.  $27 \div 3 =$



d.  $32 \div 4 =$



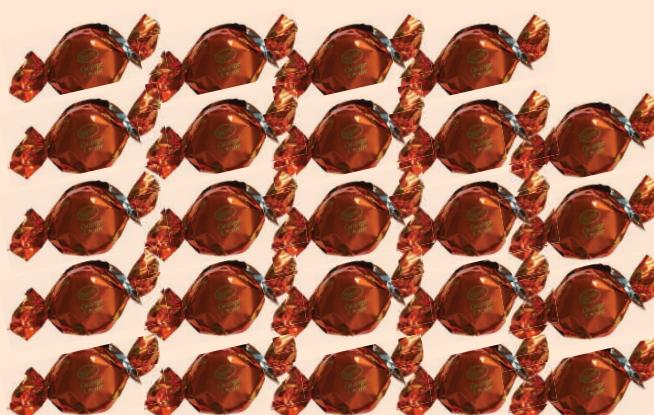
e.  $25 \div 5 =$



### Khaedu

Sumbedzani ndila dzothé dzine  
na nga kovhela vhana vha  
zwigwadza zwo fhambananaho  
malegere a 24 a tshi edana

Nwalani fhungombalo ni tshi  
sumbedza phindulo.



Teacher:  
Sign:  
Date:

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31

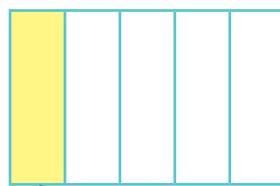


Dethi:

Themo ya |

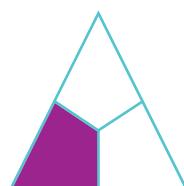


Livhanyani tshivhumbeo na furakhisheni.



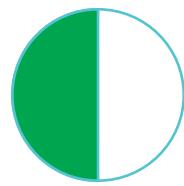
Tshararu

$$\frac{1}{3}$$



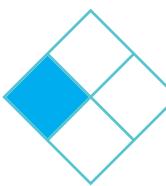
Tshathantu

$$\frac{1}{5}$$



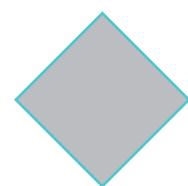
Kota nthihi

$$\frac{1}{4}$$



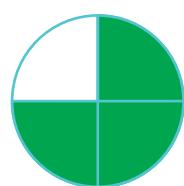
Hafu nthihi

$$\frac{1}{2}$$



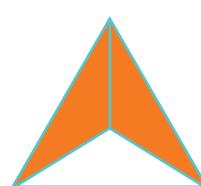
Kota tharu

$$\frac{3}{4}$$



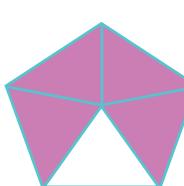
Tshainathantu

$$\frac{4}{5}$$



Nthihiyothé

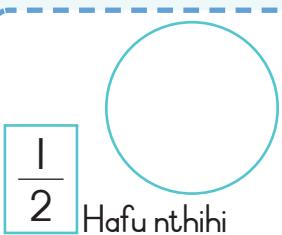
$$1$$



Tshambiliraru

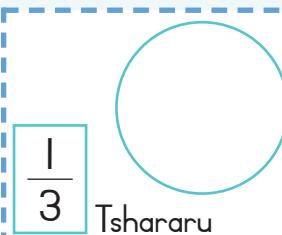
$$\frac{2}{3}$$

Kovhani ni khalare tshivhumbeo ni tshi sumbedza furakhisheni:



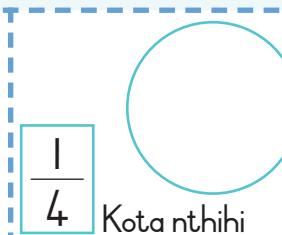
$$\frac{1}{2}$$

Hafu nthihi



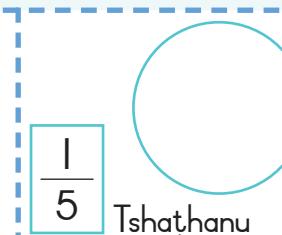
$$\frac{1}{3}$$

Tshararu



$$\frac{1}{4}$$

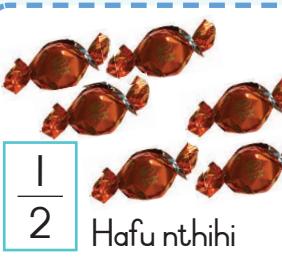
Kota nthihi



$$\frac{1}{5}$$

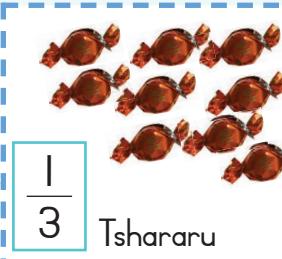
Tshathantu

Sumbedzani furakhisheni nga u tangedzela tshivhalo tshi re tshone tsha malegere:



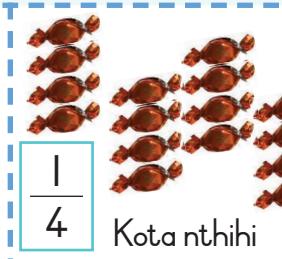
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Hafu nthihi



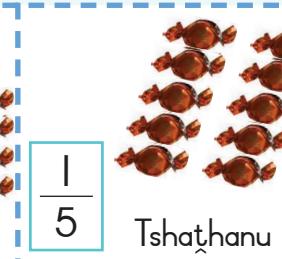
$$\frac{1}{3}$$

Tshararu



$$\frac{1}{4}$$

Kota nthihi



$$\frac{1}{5}$$

Tshathantu



Kovhelani vhana vhavhili zwivhaleli.



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| <ul style="list-style-type: none"> <li>Muñwe na muñwe washu o ñewa zwivhaleli zwa <u>2</u>.</li> <li><math>\frac{1}{2}</math> ya zwivhaleli zwa <u>4</u>. zwivhaleli zwa <u>2</u>.</li> </ul> | <ul style="list-style-type: none"> <li>Muñwe na muñwe washu o ñewa zwivhaleli zwa ____.</li> <li>____ ya zwivhaleli zwa ____ ndi ____.</li> </ul> | <ul style="list-style-type: none"> <li>Muñwe na muñwe washu o ñewa zwivhaleli zwa ____.</li> <li>____ ya zwivhaleli zwa ____ ndi ____.</li> </ul> | <ul style="list-style-type: none"> <li>Muñwe na muñwe washu o ñewa zwivhaleli zwa ____.</li> <li>____ ya zwivhaleli zwa ____ ndi ____.</li> </ul> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $4 \div 2 = 2$  | $\underline{\quad} \div \underline{\quad} = \underline{\quad}$  | $\underline{\quad} \div \underline{\quad} = \underline{\quad}$  | $\underline{\quad} \div \underline{\quad} = \underline{\quad}$  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



Kovhelani vhana zwivhaleli.

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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| <table border="1"> <tbody> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td></tr> </tbody> </table>  |   |  |  |  |  |  |  |  | <table border="1"> <tbody> <tr> <td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td></tr> </tbody> </table> |  |  |  |  |  |  |
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|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <ul style="list-style-type: none"> <li><math>\frac{1}{4}</math> ya malegere = 3</li> <li><math>\frac{2}{4}</math> ya malegere = ____</li> <li><math>\frac{3}{4}</math> ya malegere = ____</li> <li><math>\frac{4}{4}</math> ya malegere = ____</li> </ul> | <ul style="list-style-type: none"> <li><math>\frac{1}{3}</math> ya malegere = ____</li> <li><math>\frac{2}{3}</math> ya malegere = ____</li> <li><math>\frac{3}{3}</math> ya malegere = ____</li> </ul> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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

32



Themo ya |



Ri mona sa watshi

Ri nga nwala tshifhinga tshithihi nga ndila dzo fhambanaho.

|   |  |   |
|---|--|---|
|   |  |   |
| <p>2:15<br/>minete ya fumi<sub>hanu</sub> u bva<br/>kha awara ya vhuvhili</p> | <p>5:30<br/>minete ya mahumi mararu u<br/>bva kha awara ya vhut<sub>hanu</sub></p> | <p>9:45<br/>minete ya mahumi ma<sub>na</sub> na<br/>mi<sub>hanu</sub> u bva kha awara<br/>ya tahe</p> |

Nwalani izwi nga ndila dzo fhambanaho.

|       |       |       |
|-------|-------|-------|
|       |       |       |
| _____ | _____ | _____ |

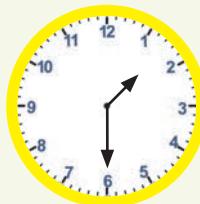


## U ya hayani

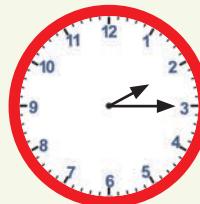
Zwi dzhiela Ben tshifhinga tshingafhani u swika hayani?

miminete

awara



Ben u takuwa tshikoloni.



Ben u swika hayani.



Tshifhinga nga 2 ...



Hu na ...

miminete mingana kha awara dza 2? \_\_\_\_\_

iri nngana kha mađuvha a 2? \_\_\_\_\_

mađuvha mangana kha vhege dza 2? \_\_\_\_\_

miňwedzi mingana kha miňwaha ya 2? \_\_\_\_\_



Dzi 27 dza Lambamai ndi Duvha la Mbofholowo.

| Lambamai |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|
| M        | L  | L  | L  | L  | M  | S  |
| 1        | 2  | 3  | 4  | 5  | 6  | 7  |
| 8        | 9  | 10 | 11 | 12 | 13 | 14 |
| 15       | 16 | 17 | 18 | 19 | 20 | 21 |
| 22       | 23 | 24 | 25 | 26 | 27 | 28 |
| 29       | 30 |    |    |    |    |    |

| Shundunthule |    |    |    |    |    |    |
|--------------|----|----|----|----|----|----|
| M            | L  | L  | L  | L  | M  | S  |
|              | 1  | 2  | 3  | 4  | 5  |    |
| 6            | 7  | 8  | 9  | 10 | 11 | 12 |
| 13           | 14 | 15 | 16 | 17 | 18 | 19 |
| 20           | 21 | 22 | 23 | 24 | 25 | 26 |
| 27           | 28 | 29 | 30 | 31 |    |    |

| Fulwi |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|
| M     | L  | L  | L  | L  | M  | S  |
|       |    |    |    |    | 1  | 2  |
| 3     | 4  | 5  | 6  | 7  | 8  | 9  |
| 10    | 11 | 12 | 13 | 14 | 15 | 16 |
| 17    | 18 | 19 | 20 | 21 | 22 | 23 |
| 24    | 25 | 26 | 27 | 28 | 29 | 30 |

Dzi 16 dza Fulwi ndi Duvha la Vhaswa.

a. Ubva kha Duvha la Mbofholowo u ya kha Duvha la Vhaswa hu na miňwedzi ya \_\_\_\_\_ yo fhelelaho, vhege dza \_\_\_\_\_ dzo fhelelaho na mađuvha a \_\_\_\_\_ o fhelelaho.

b. Ndi vhege nngana dzo fhelelaho dzo ḥangana? \_\_\_\_\_

Ndi mađuvha mangana o salaho? \_\_\_\_\_. Ndi mađuvha mangana othe? \_\_\_\_\_.

c. Duvha la mabebo la Dovhani li swika kha mađuvha a 7 musi Duvha la Mbofholowo li sa athu surika.

Iolani. Vhambedzani.  
Lulamisani.

Duvha la mabebo la Musa li da kha mađuvha mavhili nga murahu ha Duvha la Vhaswa.

Ndi nnyi muhulwane? \_\_\_\_\_ Nga mađuvha mangana? \_\_\_\_\_



11 12 13 14 15 16 17 18 19 20

33



Dethi:

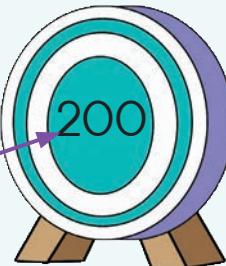
Themo ya 2

## Thagethe 200



U vhala nomboro

Vhalani ni ambe nomboro dzothé u bva kha 101 u swika kha 200. Sumbani ni tshi khou vhala.



|     |     |  |  |  |  |  |  |  |  |
|-----|-----|--|--|--|--|--|--|--|--|
| 101 | 102 |  |  |  |  |  |  |  |  |
| 111 |     |  |  |  |  |  |  |  |  |
| 121 |     |  |  |  |  |  |  |  |  |
| 131 |     |  |  |  |  |  |  |  |  |
|     |     |  |  |  |  |  |  |  |  |
|     |     |  |  |  |  |  |  |  |  |
|     |     |  |  |  |  |  |  |  |  |
|     |     |  |  |  |  |  |  |  |  |
|     |     |  |  |  |  |  |  |  |  |
|     |     |  |  |  |  |  |  |  |  |



U nwala nomboro

- Nwalani nomboro i no khou ṭahela tshibogisini tshiñwe na tshiñwe tsha lutombo.
- Nwalani dzinwe nomboro dzothé.
- Nwalani nomboro dza 10 dzi no tevhela 200.

200; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_



### Ñwalani nomboro dzi no khou tħahela



a.

|     |  |     |  |  |  |     |
|-----|--|-----|--|--|--|-----|
| 200 |  | 180 |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
| 50  |  |     |  |  |  | 110 |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  | 0   |

b.

|     |  |     |  |  |  |     |
|-----|--|-----|--|--|--|-----|
| 87  |  | 107 |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
| 167 |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  | 207 |
|     |  |     |  |  |  |     |
|     |  |     |  |  |  | 237 |

### Fhedzisani



$$\begin{array}{r}
 200 + 30 + 5 = 235 \\
 200 + 40 + 7 = \underline{\hspace{2cm}} \\
 200 + 60 + 8 = \underline{\hspace{2cm}} \\
 \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 293 \\
 \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 256
 \end{array}$$

Ñwalani nomboro idzi dzi tshi tou tevhekana u bva kha tħukhusa u ya kha khulwanesa.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



### U vhala u bva kha 100

Wanani uri ni tea u vha na mini u itela u swika kha nomboro i no tevhela.

Thomani

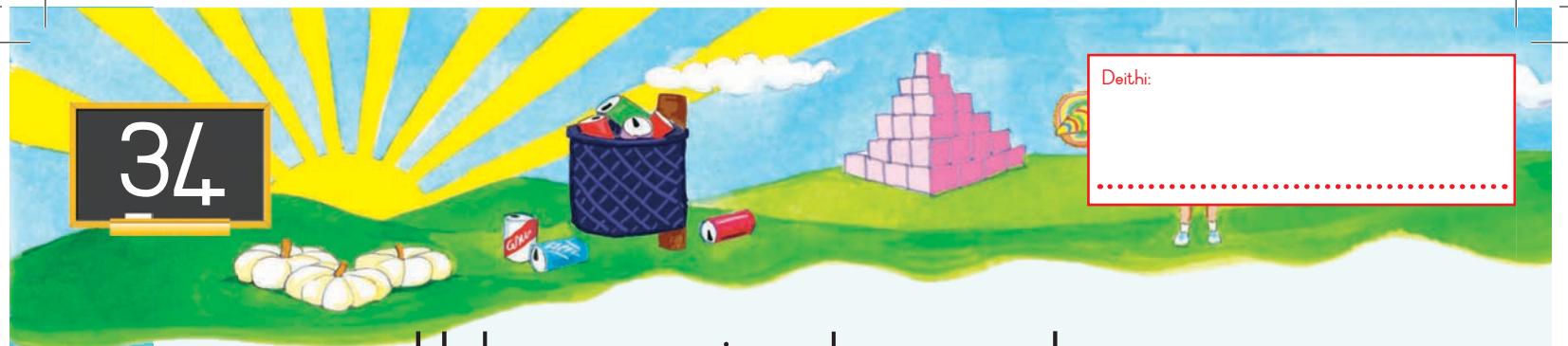


Gumani



11 12 13 14 15 16 17 18 19 20

34



Dethi:



## U shuma na zwigwada zwa nomboro

Upaka makhandela

Vho Mankosi vha shuma l̄imagani l̄a makhandela.  
Musi makhandela o no luga, vha a paka mabogisini a re kha dzi shelefū.



Hu na makhandela mangana bogisini l̄inwe na l̄inwe? \_\_\_\_\_

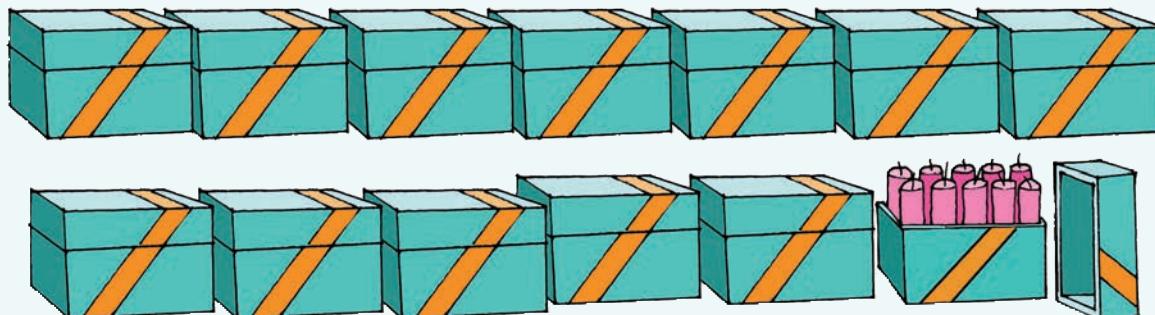
Hu na mabogisi mangana kha shelefū iñwe na iñwe? \_\_\_\_\_

Hu na makhandela manga kha shelefū iñwe na iñwe? \_\_\_\_\_



## Mabogisi a makhandela

Vho Mankosi vha vala mabogisi .



- a. Vhalani mabogisi othe

Hu na mabogisi mangana? \_\_\_\_\_

Hu na makhandela mangana o tangana othe? \_\_\_\_\_

Ndi mabogisi mangana mariwe ane vha tea u a dadza u itela uri vha vhe na makhandela a 200 ? \_\_\_\_\_

- b. Hu na makhandela mangana:

|                       |                       |
|-----------------------|-----------------------|
| Mabogisini a 2? _____ | Mabogisini a 4? _____ |
| Mabogisini a 5? _____ | Mabogisini a 3? _____ |
| Mabogisini a 6? _____ | Mabogisini a 7? _____ |

- c. Vha tada mabogisi mangana:

|                      |                      |
|----------------------|----------------------|
| Mabogisi a 40  _____ | Mabogisi a 70  _____ |
| Mabogisi a 50  _____ | Mabogisi a 30  _____ |



35a



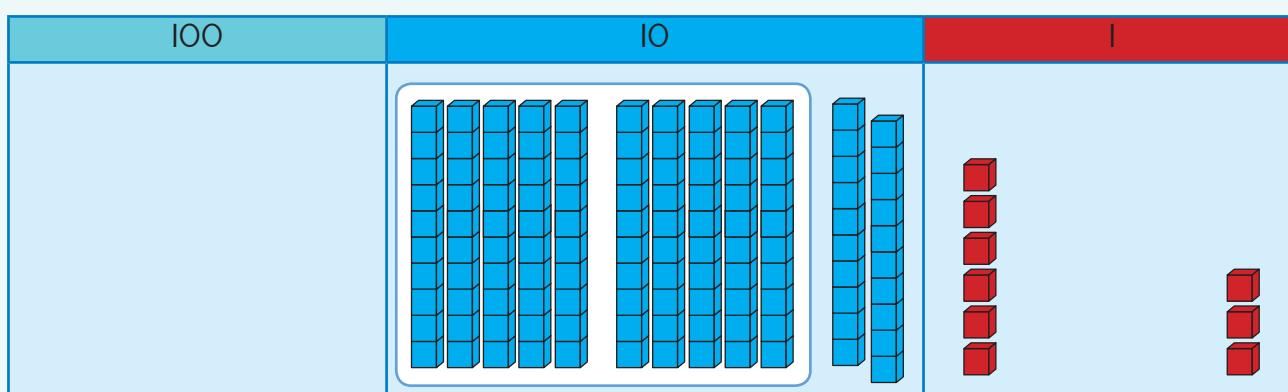
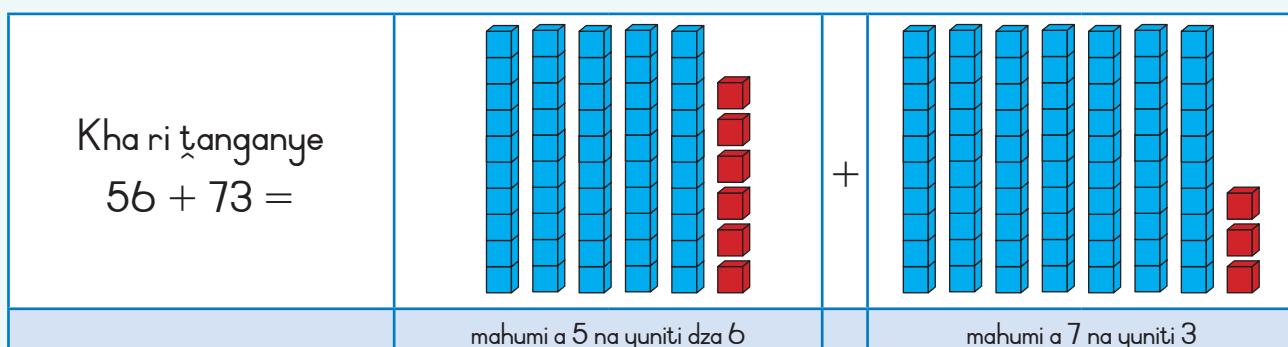
Dethi:

Themo ya 2

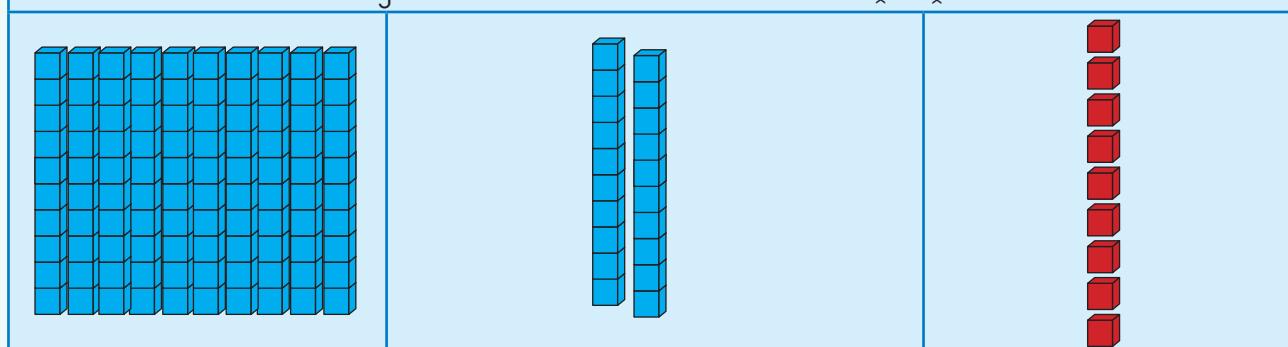


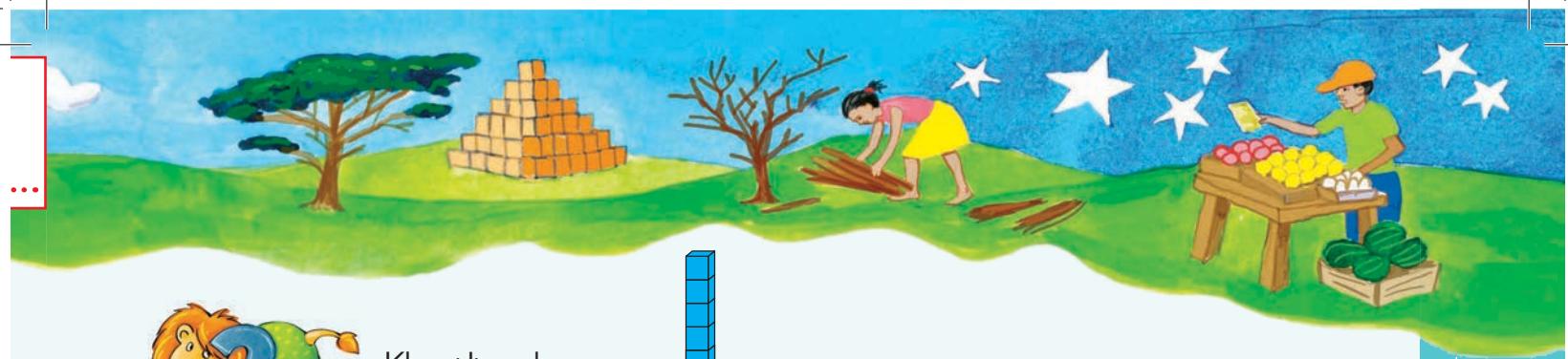
## U vhea mahumi fhethu huthihi na u a fhandekanya

U vhea mahumi fhethu huthihi musi ri tshi ḥanganya kha qqq



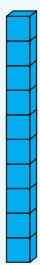
Zwo ḥangana ri na yuniti dza 12.  
Ri nga vhea mahumi a 10 fhethu huthihi uri a ite ḫana ja 1.





Kha ri lingedze

Tsumbo:  $82 + 34$



= kana =



$$100 + 20 + 6 = 126$$

a.  $65 + 52$

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

b.  $76 + 63$

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

c.  $86 + 65$

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



11 12 13 14 15 16 17 18 19 20

# 35b

Dethi:

Themo ya 2



## U vhea mahumi fhethu huthihi na u a fhandekanya (dzi iswa phanda)

U vhea zwigwada fhethu huthihi  
U shumisa zwibuloko zwanu zwa vhuimo ha nomboro.

|  |   |  |                  |
|--|---|--|------------------|
| Shumisani zwibuloko zwa muteo wa mahumi kha u sika nomboro idzi mbili. | Ndi mahumi mangana o tangana othe? ndi yuniti nngana? | No vhea nga zwigwada mahumi kana yuniti naa? Tolani vhuimo ha nomboro he na vhu vhea nga zwigwada. | Nwalani nomboro. |
| $23 + 99 =$  | mahumi a _____<br>yuniti dza _____                    | $\text{Mahumi a } 11 + \text{ Yuniti dza } 12 = 110 + 12$  | 122              |
| $38 + 25 =$  | mahumi a _____<br>yuniti dza _____                    |  |                  |
| $77 + 31 =$  | mahumi a _____<br>yuniti dza _____                    |  |                  |
| $68 + 45 =$  | mahumi a _____<br>yuniti dza _____                    |  |                  |
| $83 + 47 =$  | mahumi a _____<br>yuniti dza _____                    |  |                  |



## U fhandekanya mahumi musi ri tshi tusa

Musi ri tshi tusa, tshinwe tshifhinga ri tea u sumbedza fumi nthihi sa yuniti dza fumi, kana dana lathihi sa mahumi a 10.

Kha ri tuse:  $60 - 55 =$

Ri thoma nga mahumi a rathi na thihi nthihi. Ri khou todou tusa mahumi matanu na thihi thanu.  
(Zwine ra tusa ro zwi khalara nga muvhala musetha)

|   |  |   |  |
|---|--|---|--|
|   |  |   |  |
| Ri nga sumbedza mahumi a rathi nga hei ndila. | Kana sa mahumi matanu na yuniti dza fumi | Tusani mahumi matanu na yuniti thanu. Ho sala yuniti thanu. |  |
| $60 - 55 = 5$                                 |  |   |  |

1 2 3 4 5 6 7 8 9 10



Kha ri edzise

a.  $70 - 28$

|            |                             |             |  |
|------------|-----------------------------|-------------|--|
|            |                             |             |  |
| mahumi a 7 | mahumi a 6 na yuniti dza 10 | $70 - 28 =$ |  |

b.  $90 - 46$

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

c.  $80 - 53$

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



U wana phere ya nomboro

a.

|     |  |
|-----|--|
| 200 |  |
| 30  |  |

b.

|     |  |
|-----|--|
| 200 |  |
| 70  |  |

c.

|     |     |
|-----|-----|
| 200 |     |
|     | 105 |

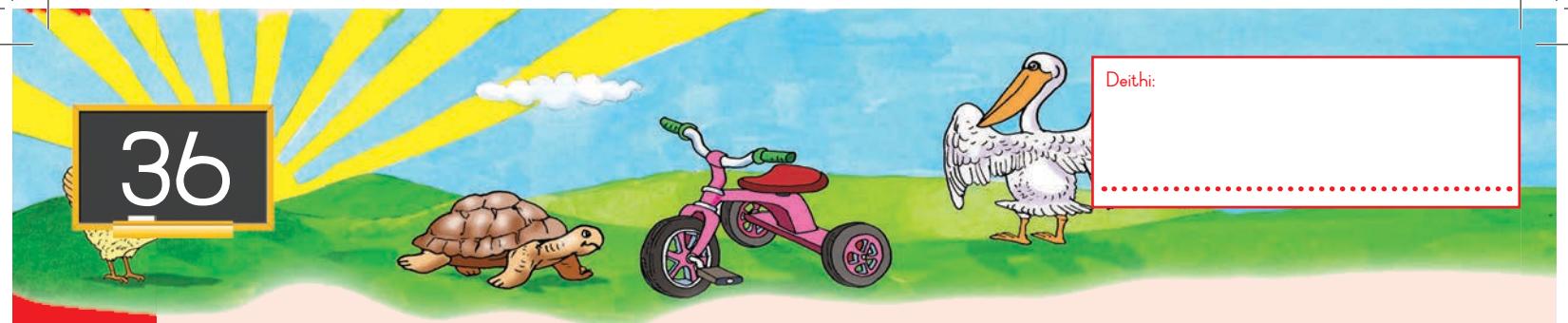
d.

|     |  |
|-----|--|
| 200 |  |
| 85  |  |



11 12 13 14 15 16 17 18 19 20

36



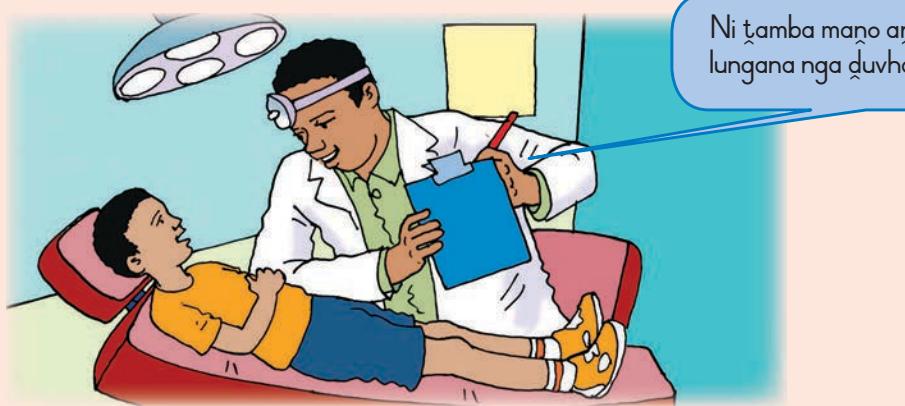
Dethi:

.....

Themo ya 2



Tshigwada tsha vhana tshi dalela dokotela wa mano.



Vhana vha mu ṭalutshedza.



hezwi = lwa |

|  |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|
|  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |   |   |
|  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|  | ✓ | ✓ | ✓ | ✓ | ✓ |   |   |   |   |   |   |   |

a. Vhalani dzithiki (✓) dici no sumbedza uri vhana vha ṭamba mano lungana. Nwalani nomboro.

|  |                   |  |
|--|-------------------|--|
|  | Luthihi nga ḫuvha |  |
|  | Luvhili nga ḫuvha |  |
|  | Luraru nga ḫuvha  |  |

b. Ni nga ṭalutshedza zwifhio?

Vhunzhi ha vhana vha ṭamba mano \_\_\_\_\_ nga ḫuvha.

Hu na vhana vha \_\_\_\_\_ kha tshigwada.



Olani phikhitogirafu i no sumbedza uri vhana vha ṭamba maṇo lungana nga ḫuvha.



Itani ṭhodisiso kīlasini yaṇu. Vhudzisani vhagudi vha 15 – 20.

- Vha ṭamba maṇo lungana nga ḫuvha? \_\_\_\_\_
- Olani girafu ya zwifanyiso i no fana na i re afho nt̄ha ni tshi sumbedza zwe na wana.



11 12 13 14 15 16 17 18 19 20

37a



Dethi:



## Tanganyani na u badekanya

U ንwala ተhanganyelo yanu



Malindi u kona u ተanganya **yuniti** na **mahumi** a dici vhea nga zwigwada. A nga ተanganya na u ቴusa kha bammbiri, hu si na zwibuloko. Tshiñwe tshifhinga u takalela u thoma nga magarača a nomboro awe u sumbedza nomboro.

Zwenezwo kha ተhanganyelo  $56 + 73$ , u wana magarača haya:

$$\begin{array}{r} 50 \\ + 70 \\ \hline 120 \end{array}$$

**q**

U ተanganya l a vhea fhasi garača.

U a ዓivha uri:  $50 + 70 = 120$ .

U doba garača la **madana**, na la 20 na la **q** a u ita

$$\begin{array}{r} 100 \\ + 20 \\ \hline 120 \end{array}$$

U i ንwala nga hei ndila:  

$$\begin{aligned} 50 + 70 + 6 + 3 \\ = 50 + 70 + q \\ = 120 + q \\ = 100 + 20 + q \\ = 12q \end{aligned}$$

nomboro ya didzhit dza 3.

Dumi u a ተalukanya uri zwibuloko zwi shuma nga ndilade. U shuma  $56 + 73$  nga hei ndila:

$$\begin{aligned} 50 + 6 + 70 + 3 \\ \swarrow \quad \searrow \\ 120 + q \\ = 12q \end{aligned}$$



Aakar u pfana na u sendedza tsini. U zwi ita nga hei ndila:

$$\begin{aligned} 56 + 73 \\ = 50 + 70 + 10 - 1 \\ = 130 - 1 = 129 \end{aligned}$$





Zwino inwi edzisani. Shumani inwe na inwe nga ndila mbili.

a.  $86 + 62$

Ndila (kushumele) ya Malindi

$$80 + 60 + 6 + 2$$



Ndila (kushumele) ya Dumi

$$80 + \cancel{6} + \cancel{60} + 2$$



b.  $72 + 63$

c.  $81 + 57$

d.  $69 + 71$

Shumisani ngona ya Aakar kha u shuma heyi mbalo.



37b



Dethi:



## Tanganyani na u badekanya (hu iswa phanda)

Zwino kha ri tuse.

a.  $87 - 53$

Ndila ya Malindi

$$80 - 50 + 7 - 3$$

$$= 30 + 4$$

$$= 34$$



Ndila ya Dumi

~~$$80 + 7 - 50 + 3$$~~

$$= 30 + 4$$

$$= 34$$

b.  $95 - 73$

c.  $86 - 62$

d.  $85 - 69$



## Thasululani!

Hu na ndila nnzhi dza u ḥanganya **yuniti** na **mahumi**. Nangani ndila ine na i ḫivha na u i takalela ya u thasulula mbalo (thaidzo) idzi. Sumbedzani kushumele kwanu.

- a. Ndalamo u thoma nga u fula maberegisi a 34 a tevhela nga maberegisi a 67.

Hu na maberegisi mangana o ḥangana othe?

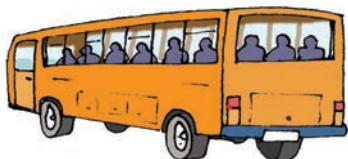


- b. Vhana vha ha Mualusi vho ḥangana vho vhulunga R47.

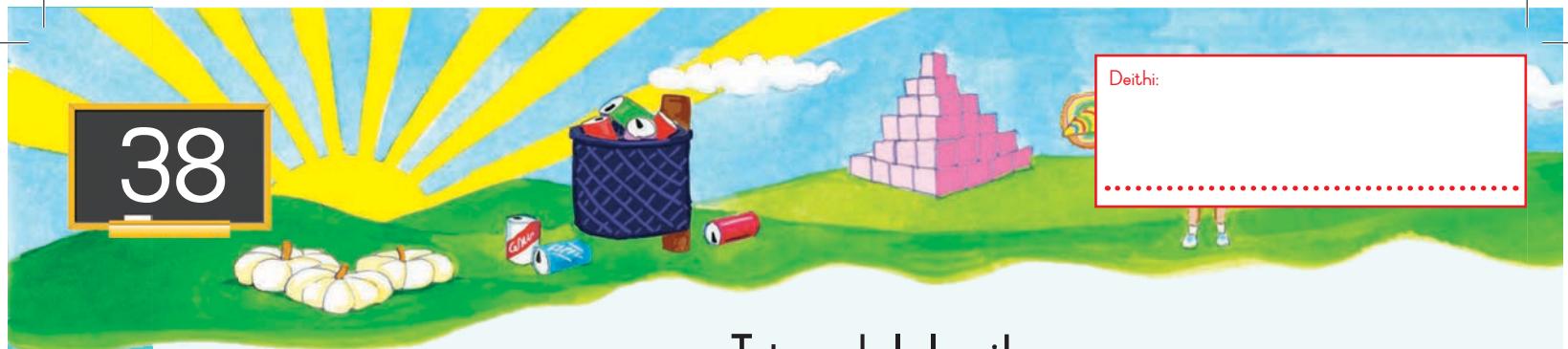
Mme avho vha vha engedza nga R55. Vha na vhugai zwino?



- c. Bisi ya vhana vha tshikolo i tshimbila lwendo lwa 88 km nga matsheloni na 73 km nga masiari. Ndi km nngana dzo ḥangana dzithe?



38



Dethi:



Zwithivho zwa mabodelo

## I tanduleni!

Shumisani ndila iñwe na iñwe ine na funa.  
Sumbedzani mushumo wanu.



Sipho



Andile

Sipho u vhala zwithivho zwa 87 zwa mabodelo. Andile u vhala zwa 94.

Zwithivho zwa mabodelo zwine Sipho a zwi vhala zwi fhira zwa Andile nga zwingana?



Khontsati ya tshikolo



Musa



Mulalo u rengisa thikhithi. O thoma e na thikhithi dza 92. O sala na dza 67.

U swika zwino Musa o rengisa thikhithi nngana?



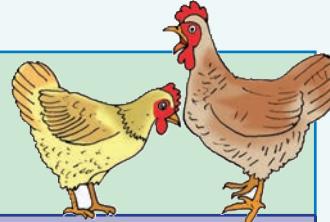
## Ndowendowe dzinwe



Hu na zwikukwana zwa 69 hokoni nthihi na zwa 95 kha inwe.

Hu na khuhu nngana dzo ṭangana dzothé?

Vhalani uri Gugu na Aakar vho tandululisa hani thaidzo.



Ndila ya Gugu

$$\begin{aligned} & 60 + 90 + 9 + 5 \\ & = 100 + 50 + 14 \\ & = 150 + 10 + 4 \\ & = 164 \end{aligned}$$



Ndila ya Aakar

$$\begin{aligned} & 69 + 95 \\ & = 70 + 95 - 1 \\ & = 70 + 90 + 5 - 1 \\ & = 160 + 4 \\ & = 164 \end{aligned}$$



Ndi a ṭusa. Ni a divha  
uri ndi ngani?

- a. Vhatukana vha kuvhanganya R96 ya lwendo lwa kilasi. Vhasidzana vha kuvhanganya R79. Vha kuvhanganya vhugai yo ṭangana yothe?

Shumisani ndila ya Gugu

Shumisani ndila ya Aakar

- b. Tshikolo tshithihi tshi kuvhanganya 76 kg dza zwikotikotí. Tshiñwe tshikolo tsha kuvhanganya 68 kg dza zwikotikotí. Ndi kg nngana dza zwikotikotí dzine zwikolo zwivhili zwa kuvhanganya dzo ṭangana dzothé??

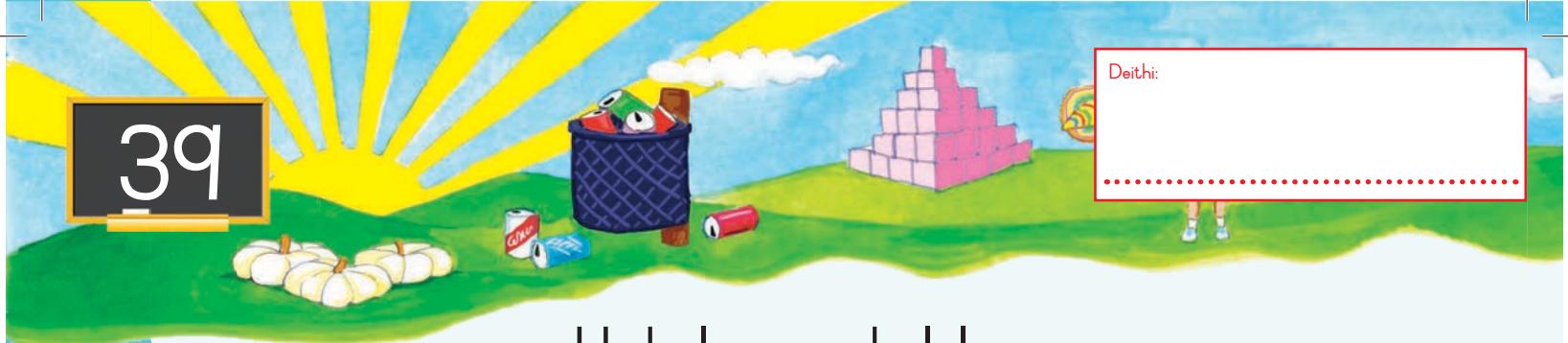
Shumisani ndila ya Gugu

Shumisani ndila ya Aakar



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

39



Dethi:

Themo ya 2



### U vhala na u vhalela

#### U wana tshipida

Nwalani nomboro dzi no khou ḫahela.

a. 

|     |
|-----|
| 100 |
| 27  |
|     |

b. 

|     |
|-----|
| 100 |
| 39  |
|     |

c. 

|     |
|-----|
| 100 |
| 43  |
|     |

d. 

|     |
|-----|
| 100 |
| 56  |
|     |

e. 

|     |
|-----|
| 200 |
| 140 |
|     |

f. 

|     |
|-----|
| 200 |
| 110 |
|     |

g. 

|     |
|-----|
| 200 |
| 135 |
|     |

h. 

|     |
|-----|
| 200 |
| 120 |
|     |

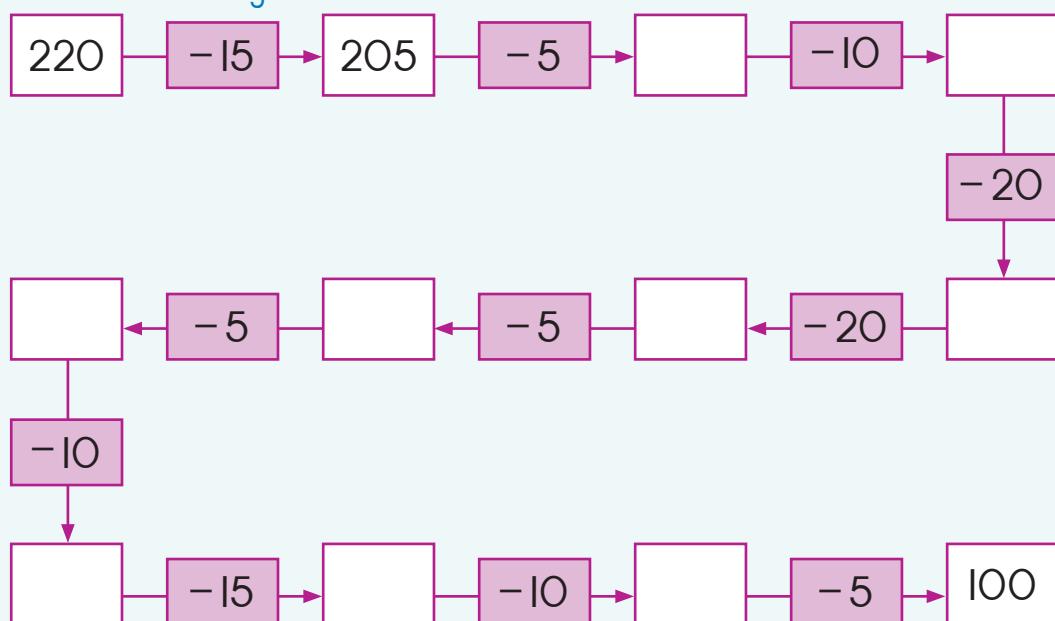


### U bva 220 u ya kha 100

Tevhelani misevhe.

Dadzani tshibogini tshinwe na tshinwe tsha phindulo nga nomboro ine na i wana musi no no ḫusa nomboro i re tshibogisini tsha pinki.

Ro dzula ro ni itela ya u thoma.



Ndila ya u ḫola phindulo dzañu khei.

Thomani kha 100. Shumani ni tshi ya murahu kha 220.

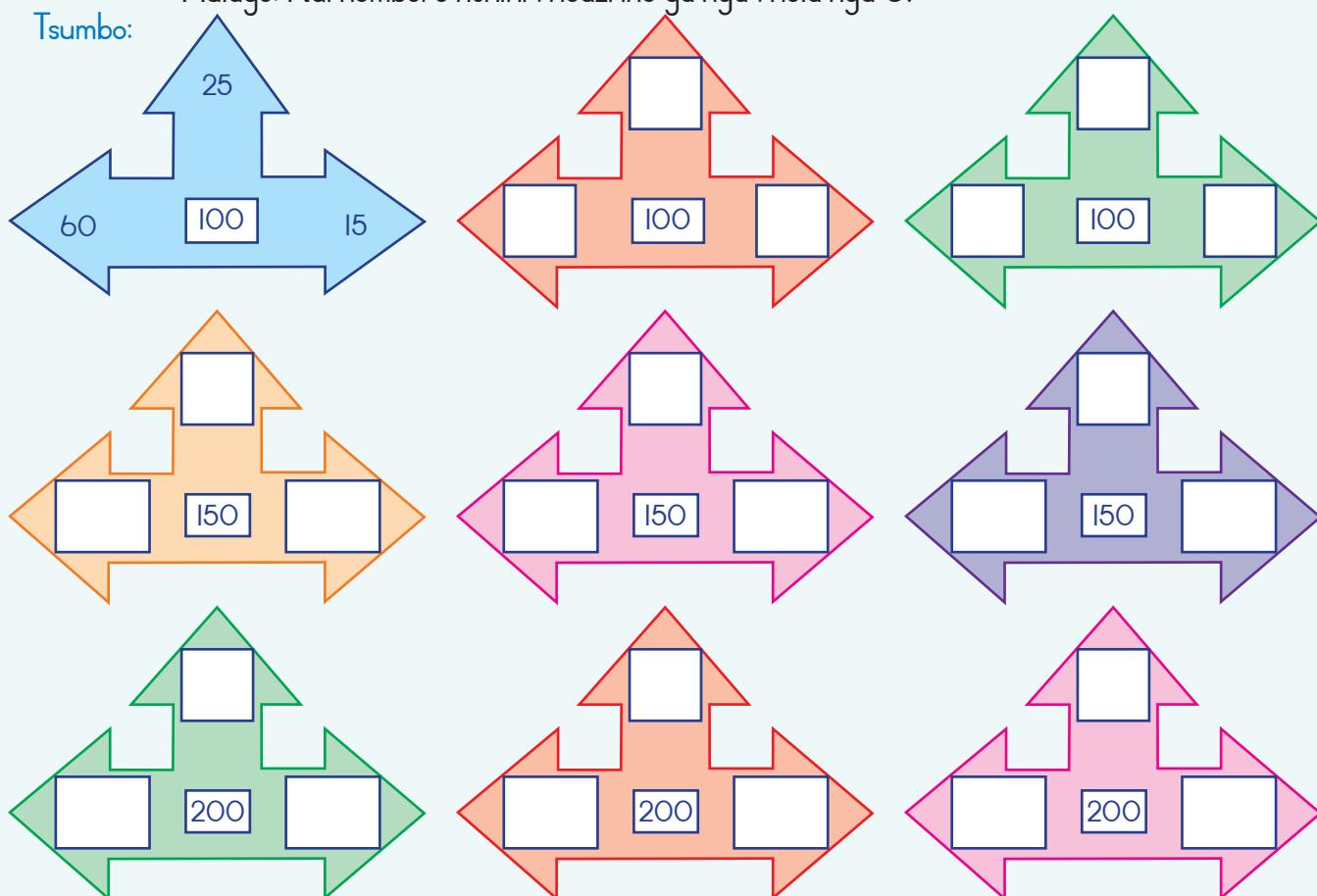
Fhedzi zwino, ḫanganyani nomboro.



## Miṭa ya vhararu

Wanani nomboro dza 3 dzi no vhumba nomboro ya thagethe.  
Mulayo: Ndi nomboro nthihi fhedzi ine ya nga fhela nga O.

Tsumbo:



## U fhira nga 50 na u vha fhasi nga 50

Nwalani phindulo kha rou ya 2.

|     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|     | 70  | 125 | 150 | 81  | 96  | 122 | 134 | III | 70 |
| +50 |     |     |     |     |     |     |     |     |    |
|     | 120 |     |     |     |     |     |     |     |    |
| -50 |     |     |     |     |     |     |     |     |    |
|     | 186 | 200 | 158 | 179 | 139 | 79  | 126 | 138 | 99 |
|     |     |     |     |     |     |     |     |     |    |
|     | 136 |     |     |     |     |     |     |     |    |



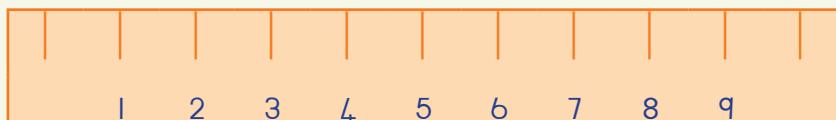
40



## Themo ya 2



Senthimitha yo lapfa lungafhani?



Nomboro dici re kha ru $\ddot{a}$  dzo imela dzisenthimitha.

Ri shumisa abiriviesheni kana tshiga cm.

Musi ni tshi shumisa ru $\ddot{a}$ , ni tea u thoma u ela u bva kha O.

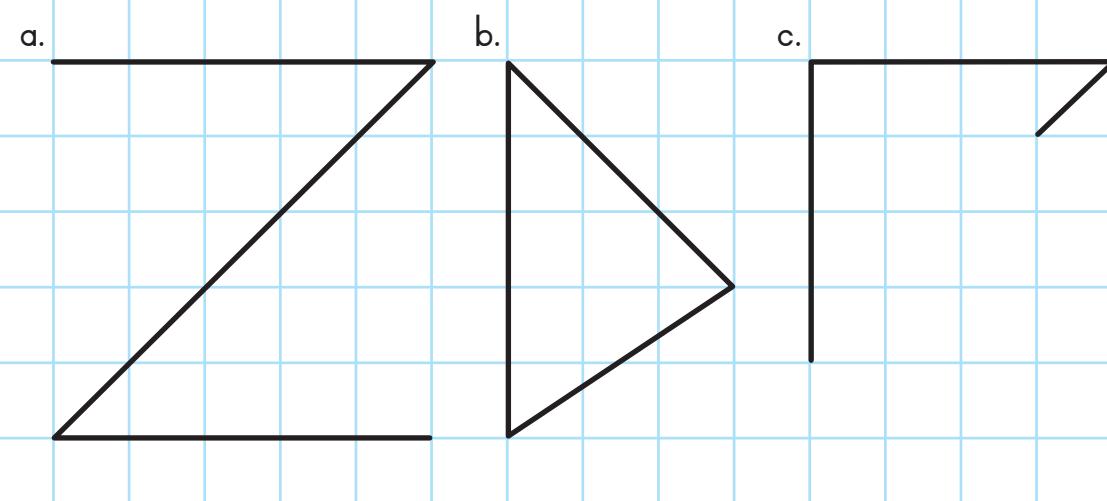
Dziñwe ru $\ddot{a}$  a dici sumbedzi O u fana na iyi i re kha siatari ili.

Wanani zero cm kha ru $\ddot{a}$ . Nwalani O kha ru $\ddot{a}$ .

10 cm i wanala ngafhi kha ru $\ddot{a}$ ? Nwalani 10 henefho.



Anganyani, ni kone u pima nga ngona nga ru $\ddot{a}$  yanu, thanganyelo ya vhulapfu ha mitaladzi iyi nga cm.



|  |  |  |
|--|--|--|
| a. Anganyani <input type="text"/> cm   | b. Anganyani <input type="text"/> cm   | c. Anganyani <input type="text"/> cm   |
| Pimani (Elani) <input type="text"/> cm | Pimani (Elani) <input type="text"/> cm | Pimani (Elani) <input type="text"/> cm |



## Mutalo muriwe na muñwe wo lapfa lungafhani?

Mutalo muriwe na muñwe wo lapfa cm nngana?

Shumisani munwe wañu uri u ni thuse kha u dzhia tsheo.

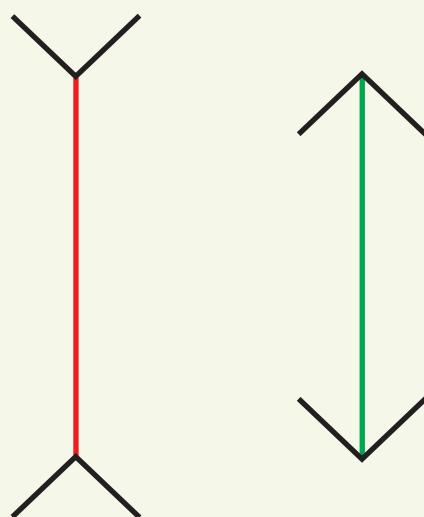
|           |                         |           |                         |
|-----------|-------------------------|-----------|-------------------------|
| a. —————— | <input type="text"/> cm | d.        | <input type="text"/> cm |
| b. —————— | <input type="text"/> cm | e. —————— | <input type="text"/> cm |
| c. —————— | <input type="text"/> cm | f. —————— | <input type="text"/> cm |



## Ni na vhutanzi naa?

Ndi tshifhio tshi re tshilapfu, mutalo mutswuku kana mutalo mudala naa?

Ni nga zwi ṭola hani?



Izwi ndi zwine zwa vhidzwa u pfí vhutolo ha mañó. Zwi ambiwa musi mañó añu o itwa uri a vhone tshithu tshi siho. Mitalo mivhili i na vhulapfu hu no edana. Mitalo mitswu i no khou ṭotomotshela nnđa i ita uri mutalo mutswuku u vhonale u mulapfu ngeno mitalo mitswu i no khou ṭotomotshela ngomu i tshi ita uri mutalo dala u vhonale u mupufushi.



41



Dethi:

Themo ya 2



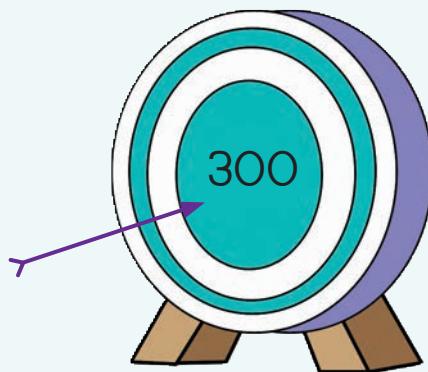
Vhalani ni nwale 200

Vhalani u bva kha 201 u swika kha 300.

Sumbani ni tshi khou ralo u vhala.

Ni kone u thoma nga u dzenisa nomboro afho zwibogisini zwa muvhala wa lutombo.

Nwalani nomboro dziñwe dzothé.

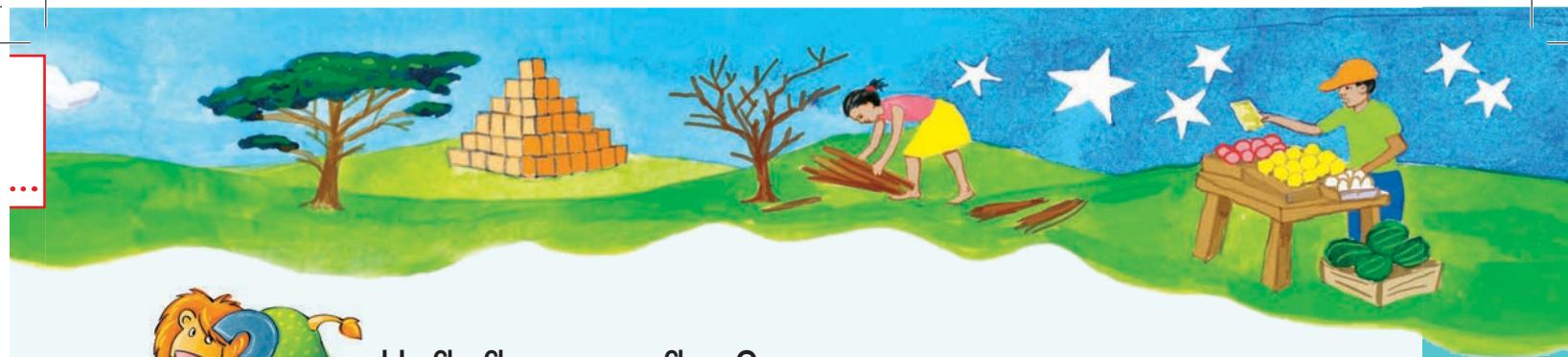


|     |  |  |  |  |     |  |  |     |
|-----|--|--|--|--|-----|--|--|-----|
| 201 |  |  |  |  | 207 |  |  | 210 |
| 211 |  |  |  |  |     |  |  |     |
| 221 |  |  |  |  |     |  |  |     |
| 231 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 249 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 254 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 265 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 273 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 286 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 281 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 298 |  |  |  |  |     |  |  |     |
|     |  |  |  |  |     |  |  |     |
| 300 |  |  |  |  |     |  |  |     |



Nwalani nomboro dza 10 dzi no tevhela 300.

300; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Hu fħufhiwa zwingafħani?

30I

28I

I7I

2II

I0I



U sumbedza na u vhambedza

- a. Nwalani nomboro dzine dza dzhena kha garata iñwe na iñwe.

298;

208;

30I;

276;

227;

269;

3II

**2** **0** **0**  
**9** **0**  
**8**

- b. Nwalani nomboro idzi dici tshi tou tevhekana u bva kha tħukħusa u ya kha khulwanesa.

\_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Tshanduko ndi ifhio? Nwalani nomboro dici no khou tħahela.

Thomani



Gumani



11 12 13 14 15 16 17 18 19 20

42



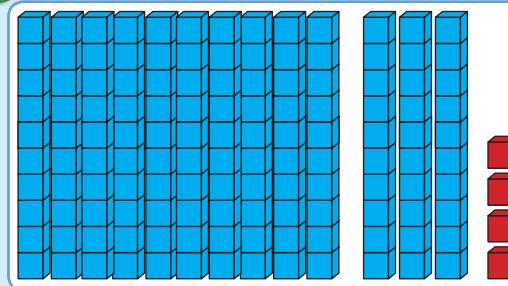
Dethi:

Themo ya 2

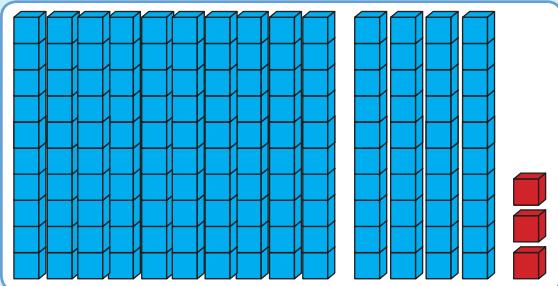


## U tanganya na u tusa nga dzilOO

U shumisa zwibuloko kha u tanganya



+



$$\begin{array}{r} 100 \quad 30 \quad 4 \\ + \end{array}$$

$$\begin{array}{r} = 200 \quad 70 \quad 7 \\ = 277 \end{array}$$



Tevhedzani ngona mbili. Sumbedzani phindulo iñwe na iñwe nga ndila mbili.

a.  $132 + 123$

Ndila ya Malindi

$$\begin{aligned} &= 100 + 100 + 30 + 20 + 2 + 3 \\ &= 200 + 50 + 5 \\ &= 255 \end{aligned}$$



Ndila ya Dumi

~~$$\begin{aligned} &132 + 123 \\ &= 200 + 50 + 5 \\ &= 255 \end{aligned}$$~~



b.  $114 + 162$



c.  $276 + 148$



Lavhelesani ndila dza avha vhathe ni tuse.



a.  $158 - 146$

Ndila ya Malindi

$$\begin{aligned} &= 100 - 100 + 50 - 40 + 8 - 6 \\ &= 0 + 10 + 2 \\ &= 12 \end{aligned}$$

Ndila ya Dumi

$$\begin{aligned} &\cancel{1}5\cancel{8} - \cancel{1}4\cancel{6} \\ &= 0 + 10 + 2 \\ &= 12 \end{aligned}$$



b.  $194 - 122$

c.  $288 - 199$



43

Dethi:

Themo ya 2

## Thagethe ya 400

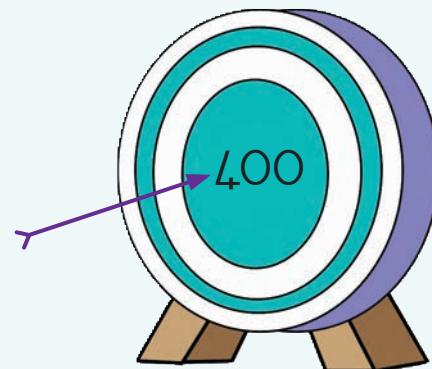


U vhala na u nwala dzi 400

U vhala u bva kha 300 u swika kha 400.

Bulani nomboro ni tshi khou ralo u vhala.

Nwalani nomboro dzi no khou t̄ahela kha giridi.



|     |  |     |     |     |  |  |     |     |
|-----|--|-----|-----|-----|--|--|-----|-----|
| 301 |  |     |     |     |  |  |     | 310 |
|     |  |     |     | 315 |  |  |     |     |
|     |  |     |     |     |  |  |     | 330 |
| 331 |  |     |     | 335 |  |  |     |     |
|     |  |     |     |     |  |  | 249 |     |
|     |  |     |     |     |  |  |     | 368 |
|     |  |     | 365 |     |  |  |     |     |
|     |  | 273 |     |     |  |  |     |     |
|     |  |     |     |     |  |  |     | 390 |
|     |  |     |     |     |  |  |     | 400 |



Nwalani nomboro dza 9 dzi no tevhela 400.

400; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;

100

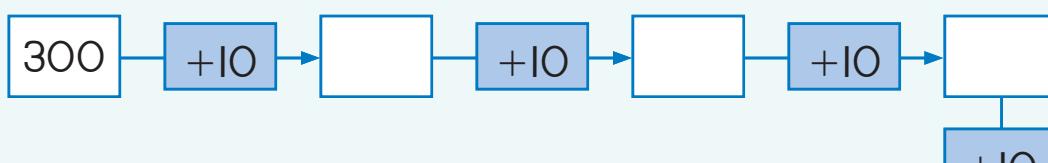
1 2 3 4 5 6 7 8 9 10



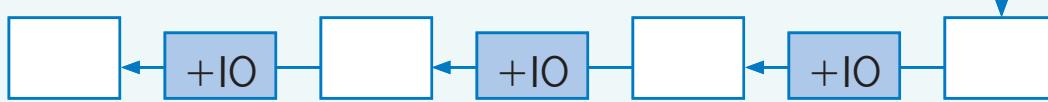
### Tshanduko ndi ifhio?

a. U vhalala ri tshi ya phanda u bva kha 300

Thomani

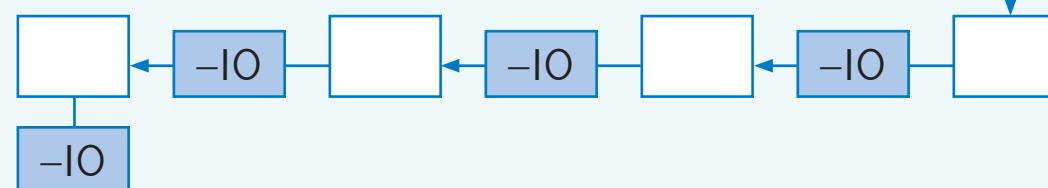
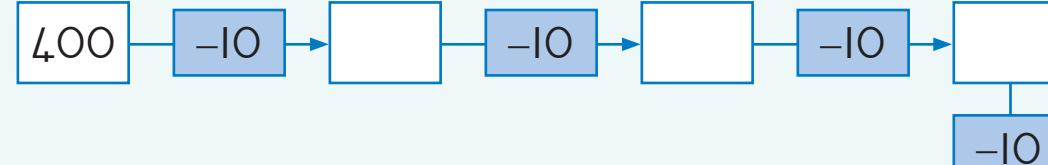


Gumani



b. Vhalani u bva kha 300

Thomani



Gumani



### Nwalani sa nomboro nthihi.

$300 + 20 + 4 = \underline{\hspace{2cm}}$

$300 + 10 + 5 = \underline{\hspace{2cm}}$

$300 + 50 + 3 = \underline{\hspace{2cm}}$

$300 + 70 + 7 = \underline{\hspace{2cm}}$

$300 + 60 + 2 = \underline{\hspace{2cm}}$

$300 + 90 + 9 = \underline{\hspace{2cm}}$

$300 + 80 + 1 = \underline{\hspace{2cm}}$

$300 + 40 + 8 = \underline{\hspace{2cm}}$

Nwalani nomboro idzi dzi tshi tou tevhekana u bva kha thukhusa u ya kha khulwanesa.

      ,       ,       ,       ,       ,       ,       ,       

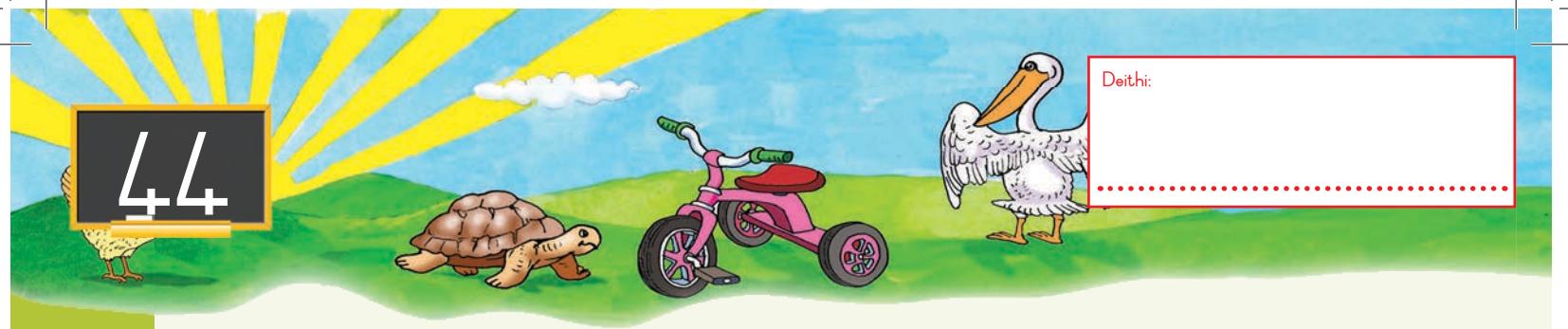


Teacher:

Sign:

Date:

44



Dethi:

Themo ya 2

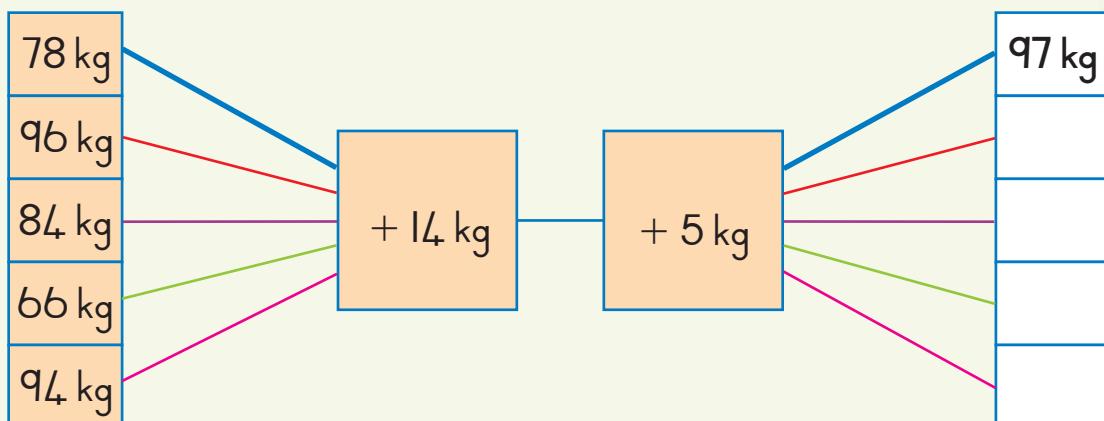


Nomboro ya tshipentshela

Tanganyani na u የwala phindulo.

## U kala

Ndi a zwi የivha uri nomboro ya tchipentshela ndi ifhio! Inwi?



Sendedzani tsini ni ተanganye!

Humbulani nga vhučali!

|                     |                    |                 |                   |                     |
|---------------------|--------------------|-----------------|-------------------|---------------------|
|                     |                    |                 |                   |                     |
| Phunguhwe kg dza 25 | Tshibode kg dza 98 | Pfene kg dza 59 | Mbidana kg dza 88 | Phelikheni kg dza 9 |

Sendedzani tsini tshileme tsha tshipuka tshiñwe na tshiñwe tshi ደ kha 10 kg ya tsinisa.

Nwalani tshileme tsha tshipuka tshiñwe na tshiñwe tshi tevhekana nga ngona u thoma kha tshi no leluwa u ya kha tshi no lemela.

Anganyani tshilemegutę tsha zwipuka zwa 5.



## Tanganyani zwileme zwazwo



Ndi nga di vha ndi sa lemeli u fana na inwi. Ndi tshibode tsha kale, fhedzi ndi na vhutanzi uri ndi na luvhilo!

Maga



- Shumisani zwivhalo zwa<sup>ñ</sup>u zwo sendedzwaho tsini.
- Anganyelani tshileme tsha tshipuka tshiñwe na tshiñwe kha rou iñwe na iñwe.
- Vhalelani hanganyelo.
- Vhambedzani hanganyelo mbili ni ñwale phambano.

|      | Ndi a anganya <sup>la</sup> | Ndi a vhalela | Phambano |
|------|-----------------------------|---------------|----------|
| +    |                             |               |          |
| +  + |                             |               |          |
| +  + |                             |               |          |



## Tshileme tsha Vusi

Tolani. Vhambedzani. Lulamisani.

Vusi u tanganyisa tshileme tshawe na tshileme tsha na tsha .

hanganyelo ya tshileme tshavho ndi **kg dza 239**. Vusi u lemela zwingafhani? Sumbedzani phindulo yanu.



## Tshileme tshanga ndi tshingafhani?

Tambani kha tshigwada. Sielisanani ...

Tanganyisani tshileme tsha<sup>ñ</sup>u na tshileme tsha zwiñwe zwa zwipuka. Shumaní hanganyelo. Vhudzani phindulo tshigwada. Ni songo vha sumbedza mushumo wa<sup>ñ</sup>u! Vha tea u lingedza u shuma tshileme tsha<sup>ñ</sup>u.



45



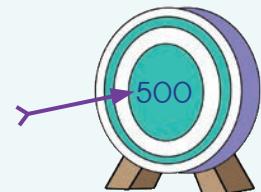
Dethi:

Themo ya 2



U vhalala na u nwala

|     |     |     |     |     |     |  |     |     |
|-----|-----|-----|-----|-----|-----|--|-----|-----|
|     |     |     |     |     |     |  |     | 400 |
| 401 |     |     |     | 405 |     |  |     | 410 |
| 411 |     |     |     |     |     |  |     | 420 |
|     | 422 |     |     |     | 427 |  |     |     |
|     |     | 434 |     |     |     |  |     |     |
|     |     |     | 446 |     |     |  |     |     |
|     |     |     |     |     | 458 |  |     |     |
| 462 |     |     |     |     |     |  | 470 |     |
|     |     | 473 |     |     | 477 |  |     |     |
| 481 |     |     |     |     |     |  |     | 490 |
|     |     |     |     |     |     |  | 499 | 500 |



- a. Vhalani u bva kha 400. Bulani nomboro ni tshi khou ralo u vhalala.
- b. Nwalani nomboro dzo ṭahelaho afho kha giridi.
- c. Nwalani nomboro dza 9 dici no tevhela 500.

500; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

- d. Vhalani nga 2. Nwalani nomboro dza 8 dici tevhelaho nga **phetheni ya 2**.

400; 402; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

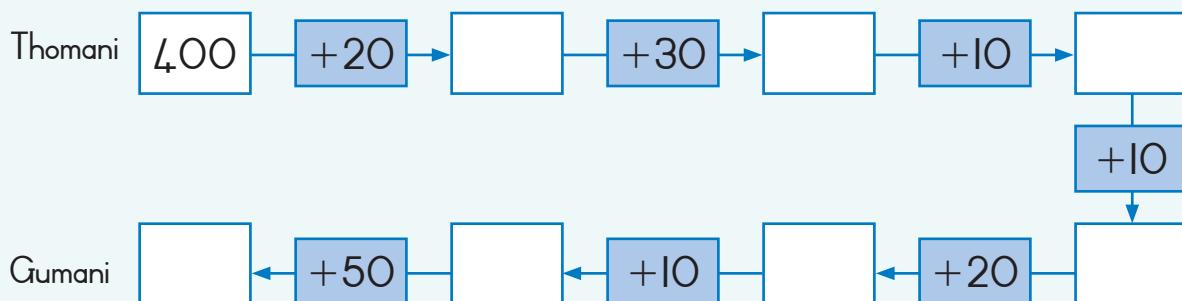
- e. Vhalani nga 5. Nwalani nomboro dza 8 dici tevhelaho nga **phetheni ya 5**.

400; 405; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

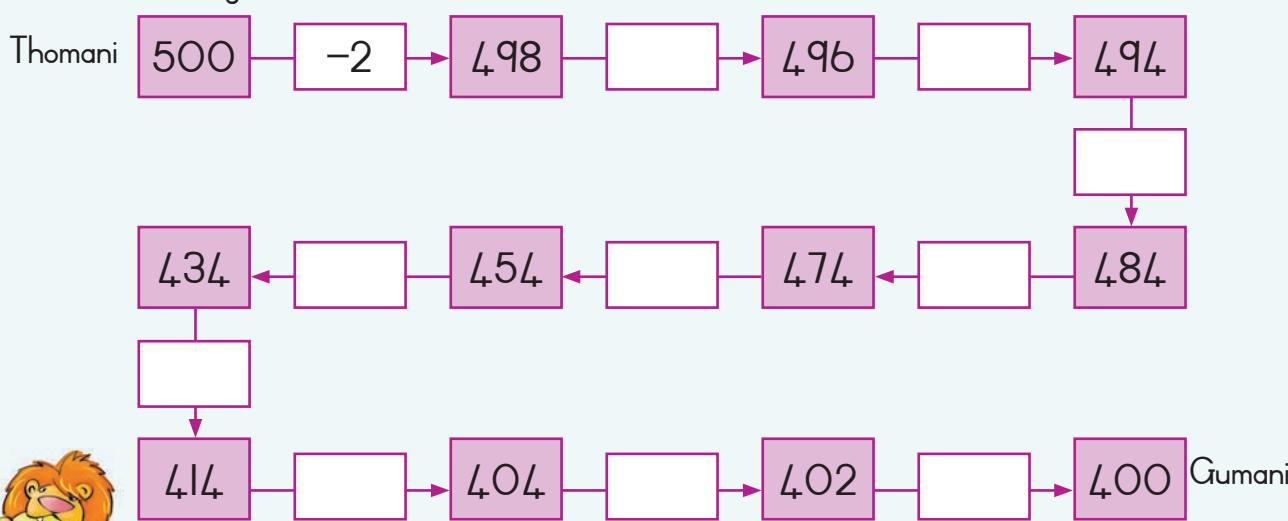


Tshanduko ndi ifhio?

- a. Vhalani ni tshi ya murahu u bva kha 400.



- b. Vhalani ni tshi ya murahu u bva kha 500.



U sumbedza nomboro. Tevhedzani tsumbo.

Wanani ṭhanganyelo ya nomboro idzi. Shumisani garaṭa dza nomboro ni tshi sumbedza ṭhanganyelo iñwe na iñwe.

|            |       |                |
|------------|-------|----------------|
| $405 + 10$ | $415$ | $400 + 10 + 5$ |
| $446 + 10$ |       |                |
| $455 + 10$ |       |                |

|            |  |  |
|------------|--|--|
| $398 + 10$ |  |  |
| $424 + 10$ |  |  |
| $460 + 20$ |  |  |

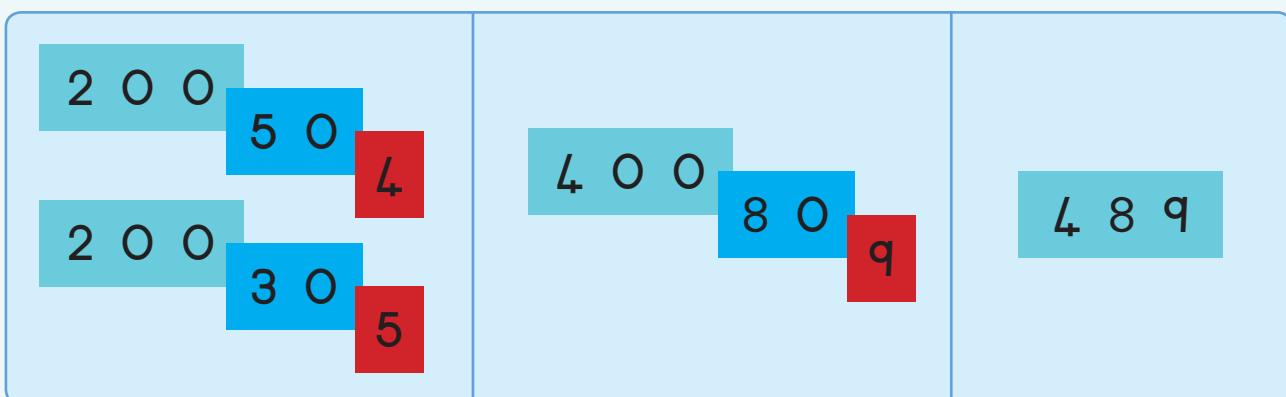




## Themo ya 2

Ni vhona mini?

### Mut<sup>h</sup>anganyo na mut<sup>h</sup>uso



Ri khou ya u shumisa nd<sup>h</sup>ila ya Malindi na ya Dumi hafhu kha u tanganya.

a.  $245 + 231$

Nd<sup>h</sup>ila ya Malindi

$$= 200 + 200 + 40 + 30 + 1$$

$$= 400 + 70 + 1$$

$$= 471$$



Nd<sup>h</sup>ila ya Dumi

~~$$245 + 231$$~~

$$= 400 + 70 + 6$$

$$= 471$$



b.  $278 + 136$

c.  $265 + 148$



Ri khou ya u shumisa ndila ya Malindi na ya Dumi hafhu kha u tusa.

a.  $476 - 324$

Ndila ya Malindi

$$\begin{aligned} &= 400 - 300 + 70 - 20 + 6 - 4 \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$



Ndila ya Dumi

$$\begin{aligned} &\cancel{4}7\cancel{6} + \cancel{3}2\cancel{4} \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$

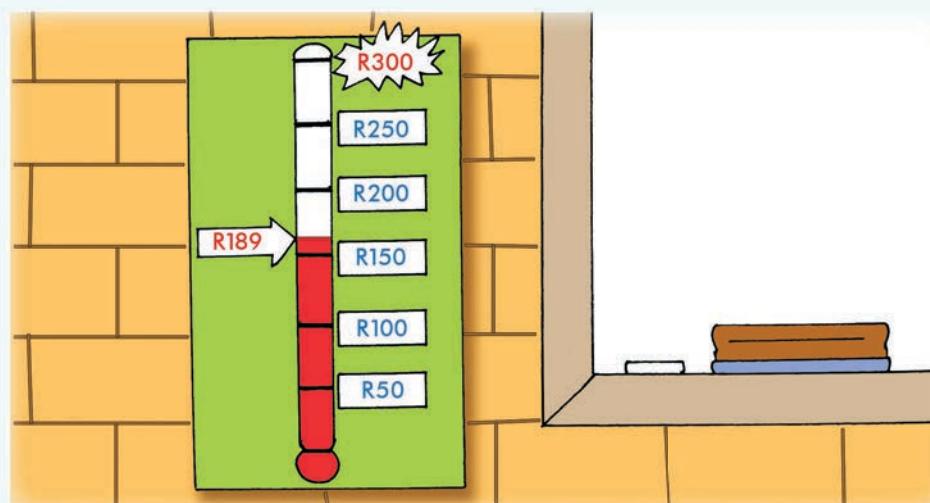


b.  $489 - 456$

c.  $482 - 161$



Ro swika kha thagethe

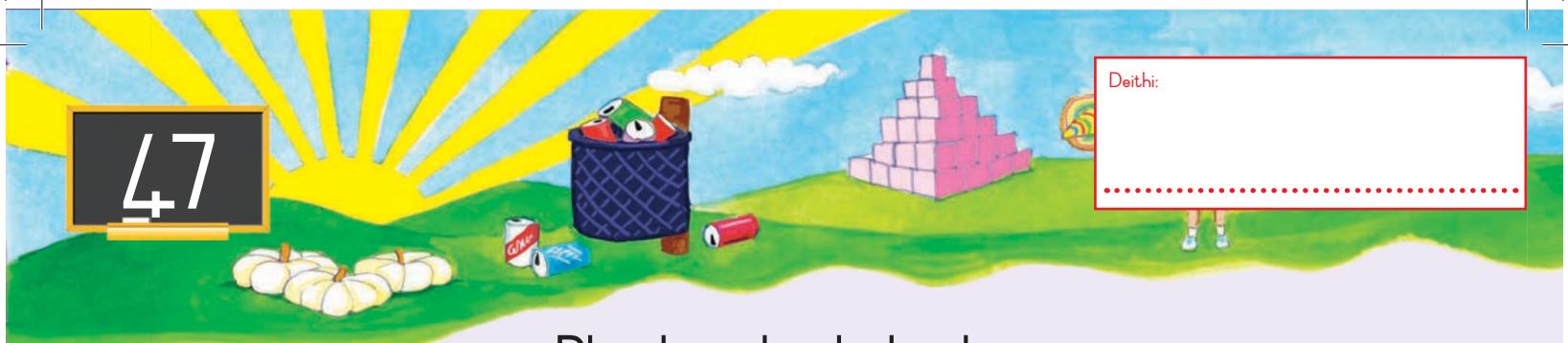


Lavhelesani tshifanyiso.

Hu t̄odea zwingana u itela u swika kha thagethe?

R

47



Dethi:

## Themo ya 2



## Thavha ya tshiphiriri

Dzina la thavha khulwanesa Gauteng ndi liphio? Shumisani khoudu kha u li wana. Livhanyani phindulo inwe na inwe i re kha thebulu na ledere li re kha khoudu.

|    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| A  | B  | C  | D  | E  | F  | G  | H  | I  | J  | K  | L  | M  |
| I  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | q  | IO | II | I2 | I3 |
| N  | O  | P  | Q  | R  | S  | T  | U  | V  | W  | X  | Y  | Z  |
| I4 | I5 | I6 | I7 | I8 | I9 | I0 | I1 | I2 | I3 | I4 | I5 | I6 |

| Tshivhalo tsha vhusevhedi                         | Phindulo | LEDERE |
|---|----------|--------|
| Tsumbo: $2 \times 3 \times 3 \times 1 = \square$  | 18       | R      |
| $50 + 50 + 50 + 100 - 200 - 45 = \square$         |          |        |
| $1 + 2 + 7 + 10 + 7 + 1 - 14 = \square$           |          |        |
| $60 - 30 + 50 + 20 - 50 - 15 - 20 = \square$      |          |        |
| $3 + 2 + 7 + 1 + 2 + 1 + 3 = \square$             |          |        |
| $5 + 3 + 30 = 4 + 2 + 12 + \square$               |          |        |
| $100 - 5 - 70 = 20 + \square$                     |          |        |
| $36 + 44 - 60 - 22 = \square$                     |          |        |
| $10 + 15 = 14 + \square$                          |          |        |
| $2 + 1 + 14 + q + 14 = 25 + \square$              |          |        |
| $1 \times 2 \times 2 \times 2 \times 2 = \square$ |          |        |

Dzina la thavha ndi



Lavhelesani, ni humbule, ni fhindule!

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| ● | ★ | ☾ | ★ | ● | ● | ★ | ☾ | ★ | ●  | ●  | ★  | ☾  | ★  | ●  |
| I | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | II | 12 | 13 | 14 | 15 |

- a.
- Nomboro ya 16 i do dzhia tshivhumbeo tshifhio? Swayani (✓) kha tsho teaho. ★ ● ☽
- Nomboro ya 18 i do dzhia tshivhumbeo tshifhio? Swayani (✓) kha tsho teaho. ★ ● ☽
- Nomboro ya 23 i do dzhia tshivhumbeo tshifhio? Swayani (✓) kha tsho teaho. ★ ● ☽

- b.
- |                         |                            |
|-------------------------|----------------------------|
| Nomboro 50 i do vha ★.  | Ndi zwone kana a si zwone? |
| Nomboro 100 i do vha ●. | Ndi zwone kana a si zwone? |
| Nomboro 28 i do vha ☽.  | Ndi zwone kana a si zwone? |



Ndi zwifhio zwi re zwinzhi?

U wana tshelede ya u la ya R2,50 nga duvha nga Fulwi na Fulwana.

Kana u wana R150 nga dzil dza Thangule.

Sumbedzani uri no zwi wanisa hani.

Sedzulusani. Vhambedzani. Lulamisani



II I2 I3 I4 I5 I6 I7 I8 I9 20

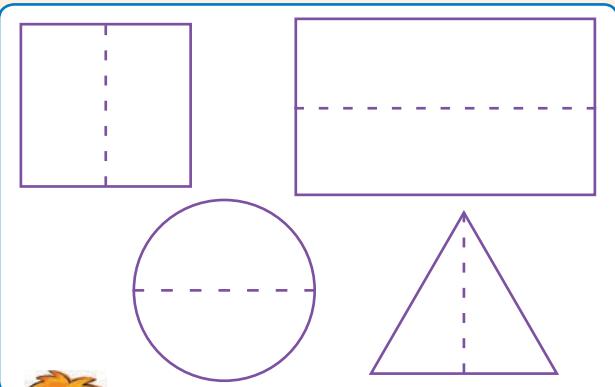
48

Dethi:

Themo ya 2

## Simethiri (ndinganahuvhili)

Ni zwifhio zwine na zwi vhona kha zwivhumbeo izwi?



Mutalo wa simethiri (ndinganahuvhili) u fhandula tshivhumbeo tsha bva hafu mbili u itela uri hafu iñwe na iñwe i fane na iñwe sa kha tshivhoni.

Tshivhumbeo tshi na simethiri arali ni tshi nga tshi peta kha mutalo wa simethiri u itela uri hafu mbili dzi fane kwakkwa

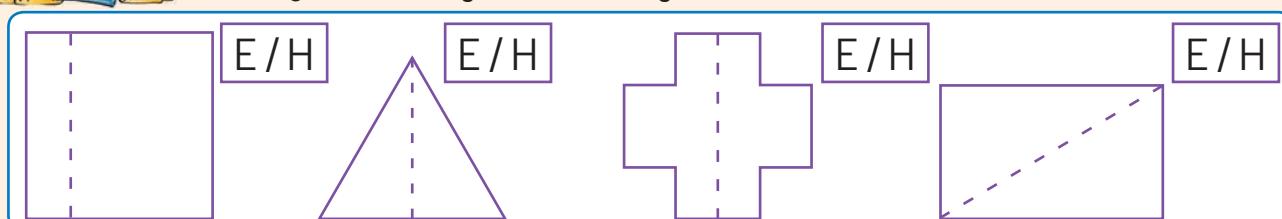


Talani mutalo wa simethiri kha tshivhumbeo tshiñwe na tshiñwe.

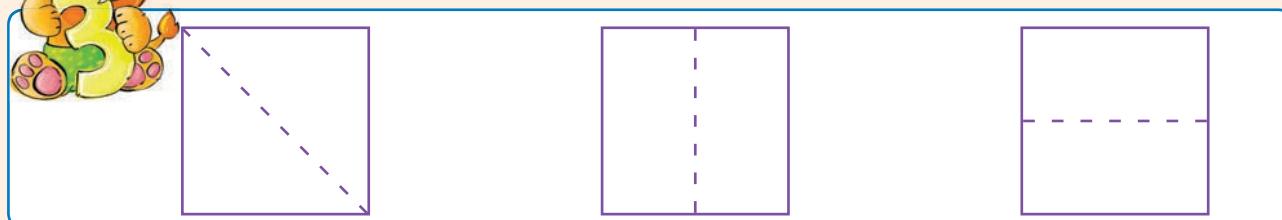


Uyu mutalo wa zwithomathoma ndi mutalo wa simethiri kana hai?

Tangedzelani (E) ya Ee kana (H) ya Hai.



Uyu mutalo ndi wa simethiri? Ngani?

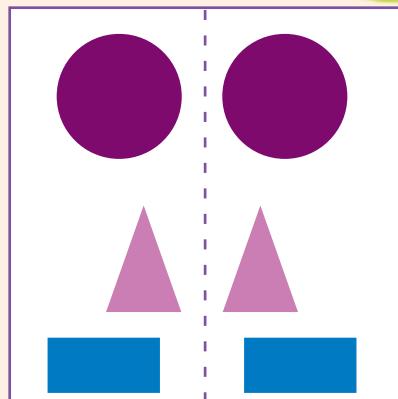




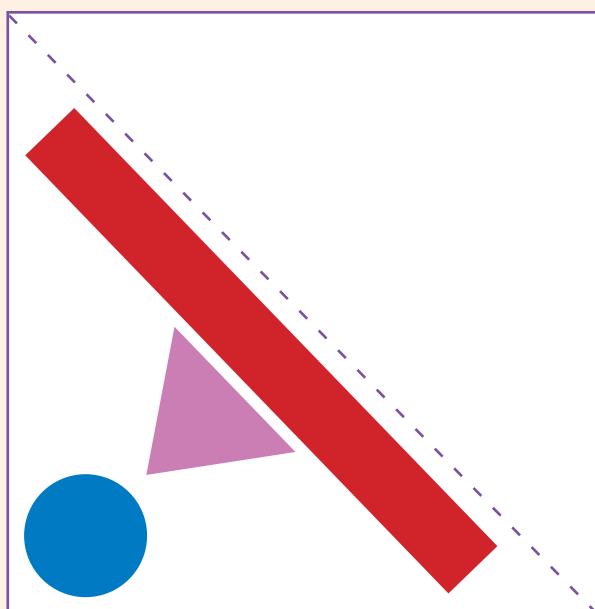
Olani zwivhumbeo ni ite uri tshifanyiso tshi vhe simethiri.

Ro dzula ro ni itela tsha u thoma

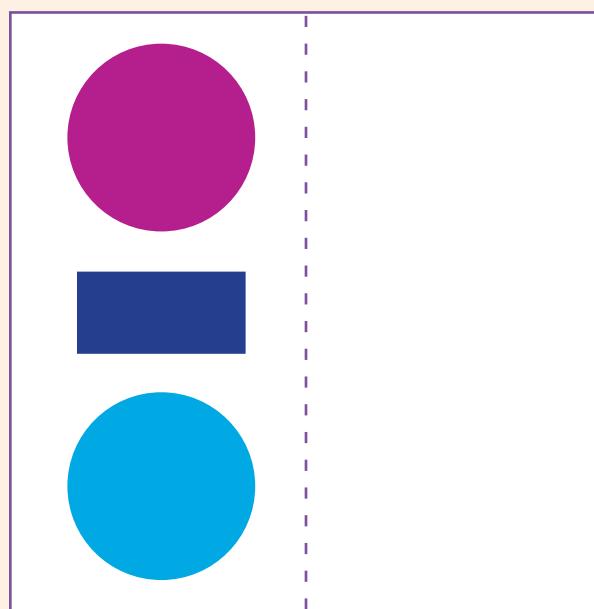
a.



b.



c.



Düiteleni  
khaphethe  
yanu inwi munę  
ya simethiri ni  
tshi shumisa  
zwivhumbeo.



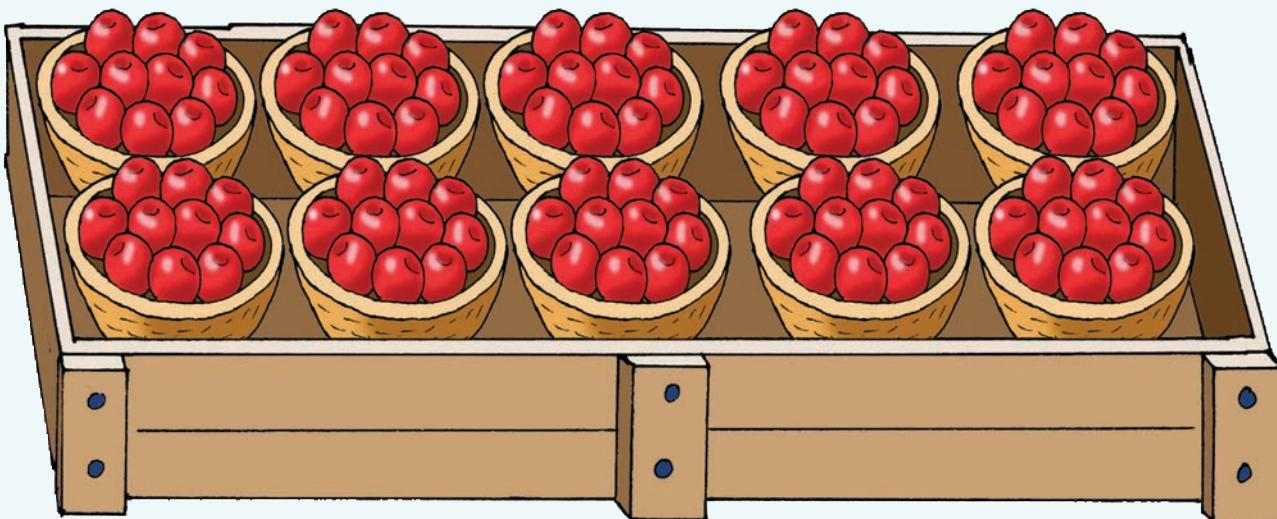
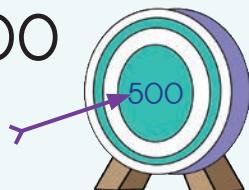


Dethi:



U fhata u swika kha 500

U vhalela maapula



Fhedzisani na u andisa

|   |                    |
|---|--------------------|
| basikiti (tshithatha) ya 1 i hwala maapula a _____. | $1 \times 10 = 10$ |
| basikiti (zwithatha) ya 3 i hwala maapula a _____.  | $3 \times 10 =$    |
| basikiti (zwithatha) ya 5 i hwala maapula a _____.  |                    |
| basikiti (zwithatha) ya 4 i hwala maapula a _____.  |                    |
| basikiti (zwithatha) ya 2 i hwala maapula a _____.  |                    |

|  |   |
|--|---|
| khireiti ya 1 i hwala maapula a <b>100</b> . | khireiti dza 2 dici hwala maapula a _____           |
| khireiti dza 3 dici hwala maapula a _____    | khireiti dza 4 dici hwala maapula a _____           |
| khireiti dza 5 dici hwala maapula a _____    | khireiti dza 2 dici hafu dici hwala maapula a _____ |

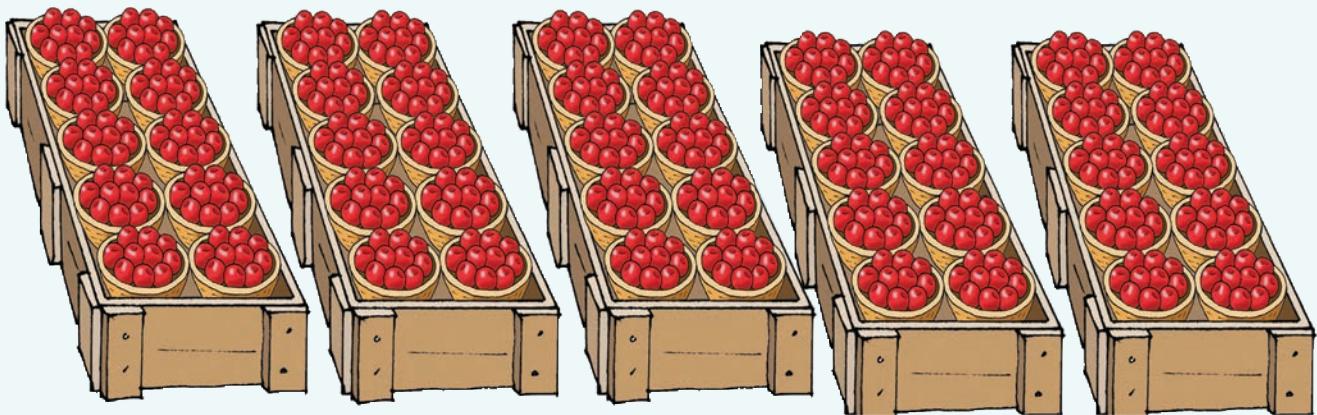


Hu na maapula a 10 kha basikiti ya l.

Hu na basikiti ya \_\_\_\_\_ kha khireiti nthihi.

Hu na maapula a \_\_\_\_\_ kha khireiti nthihi.

Hu na maapula mangana o ṭangana o ṭhe? \_\_\_\_\_



U rekanya; u sumbedza na u nwala

3 0 0

4 0

5

Thomani nga u shumisa garaṭa dza nomboro ni tshi sumbedza ṭhanganyelo iñwe na iñwe. Ni kone u dzhenisa nomboro.

khireiti dza 3 + basikiti dza 4 + maapula a 5 = maapula a 345

khireiti dza 4 + basikiti dza 5 + maapula a 7 = maapula a \_\_\_\_

khireiti dza 5 + basikiti dza 2 + maapula a 3 = maapula a \_\_\_\_

khireiti dza 4 + basikiti dza 7 + maapula a 2 = maapula a \_\_\_\_



50

Dethi:

Themo ya 2

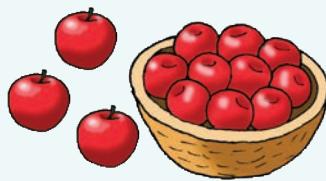
## Muandiso na mukovho (10)



U vhala maapula

Dadzani thebulu.

Ndi basikiti (zwithatha) nngana dzo hwalaho maapula?

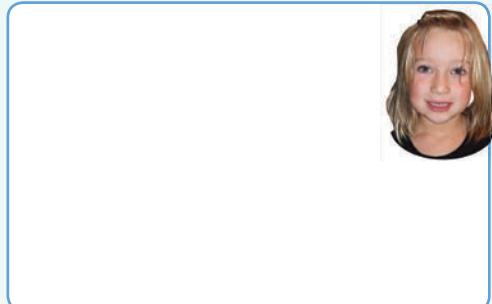
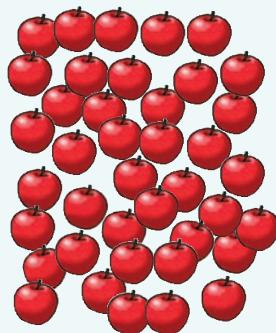


|            |  |    |    |    |    |                    |
|------------|--|----|----|----|----|--------------------|
| Maapula    |  | 10 | 20 | 30 | 40 | 50                 |
| Basikiti   |  | 1  | 2  |    |    |                    |
| Mbalo ya ÷ |  |    |    |    |    | $50 \div 10 = 5$   |
| Mbalo ya × |  |    |    |    |    | $5 \times 10 = 50$ |



Kovhelani vhana maapula. Olani tshifanyiso (nyolo)

a.

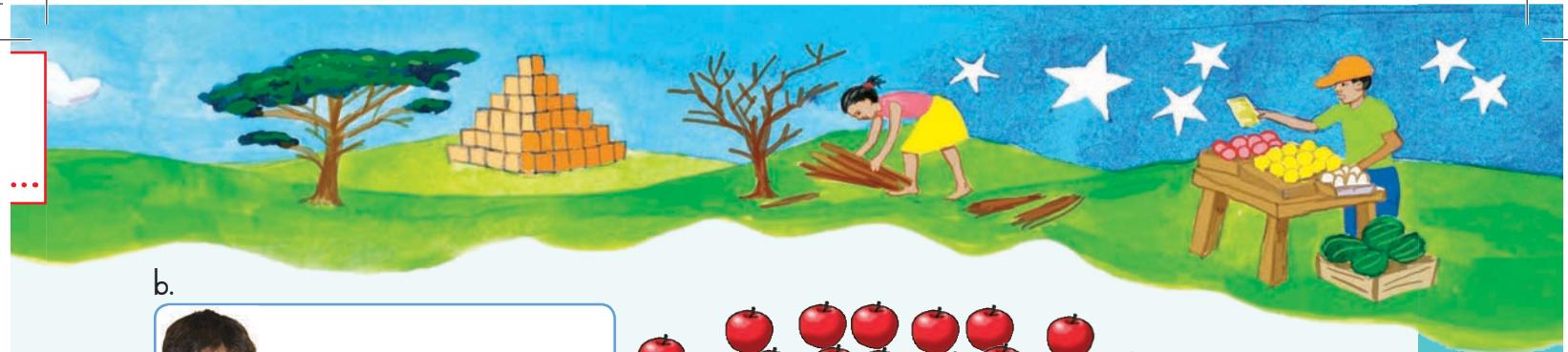


Sedzulusani  
phindulo dzanu.

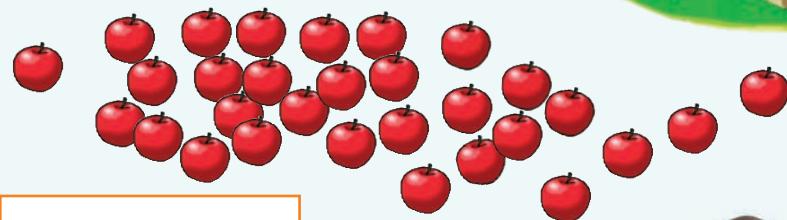
$\square \div \square = \square$

$\square \times \square = \square$



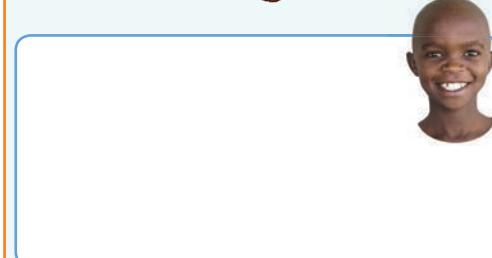
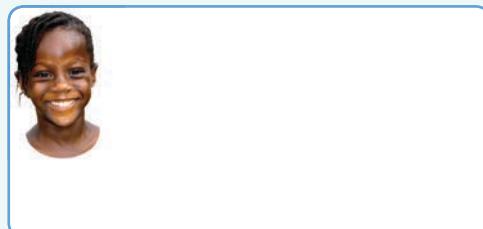


b.



Nwalani mbalo ya ÷

Nwalani mbalo ya a  
x ni tshi sedzulusa  
(tola) phindulo dzanu



Shumisani nomboro kha u vhumba mafhungombalo aŋu inwi mune.



Tsumbo

$$\div \quad 40 \div 10 = 4$$

$$\times \quad 4 \times 10 = 40$$



|        |  |          |  |
|--------|--|----------|--|
| $\div$ |  | $\times$ |  |
|--------|--|----------|--|



|        |  |          |  |
|--------|--|----------|--|
| $\div$ |  | $\times$ |  |
|--------|--|----------|--|



|        |  |          |  |
|--------|--|----------|--|
| $\div$ |  | $\times$ |  |
|--------|--|----------|--|



Nwalani nomboro i re ḫukhu nga 10 na khulwane nga 10 khe ye na newa.

|                   |                   |                   |
|-------------------|-------------------|-------------------|
| _____, 460, _____ | _____, 390, _____ | _____, 500, _____ |
|-------------------|-------------------|-------------------|



Teacher:

Sign:

Date:

51



Dethi:



## Uvhala nga dzi2

Uvhala ri tshi ya phanda na murahu nga dzi2

- 232; 234; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 242; \_\_\_\_\_; \_\_\_\_\_; 248
- 500; \_\_\_\_\_; 496; \_\_\_\_\_; \_\_\_\_\_; 490; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_
- 460; \_\_\_\_\_; \_\_\_\_\_; 400; \_\_\_\_\_; 360; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_
- 341; \_\_\_\_\_; 361; \_\_\_\_\_; \_\_\_\_\_; 391; \_\_\_\_\_; 411; \_\_\_\_\_; \_\_\_\_\_



Phere dza magilavu



- Hu na **phere nngana dza magilavu** kha rou iñwe na iñwe? \_\_\_\_\_
  - Hu na **magilavu mangana mathihi** a re kha rou iñwe na iñwe? \_\_\_\_\_
  - Hu na rou nngana? \_\_\_\_\_
  - Hu na magilavu mangana o tangana ot he? \_\_\_\_\_
  - Sumbedzani uri no zwi wana hani.
- 
- Nwalani phindulo yanu sa fhungombalo.  
\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_



Ndi magilavu mangana?

U nwala kha thebulu.

|    |                            |   |  |  |  |  |  |  |  |  |
|----|----------------------------|---|--|--|--|--|--|--|--|--|
| a. | Phere ya<br>magilavu       |   |  |  |  |  |  |  |  |  |
|    | Tshivhalo tsha<br>magilavu | 2 |  |  |  |  |  |  |  |  |

|    |   |    |    |    |    |
|----|---|----|----|----|----|
| b. | Gilavu li si na<br>mungana (singili)            | 20 | 21 | 70 | 73 |
|    | Phere dzine<br>dza nga itwa                     |    |    |    |    |
|    | Magilavu a si na mungana<br>(a singili)o salaho |    |    |    |    |



Uv hala nga mbili

a. Ndi nomboro ifhio i no da vhukati ?

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| 264, _____, 268 | 391, _____, 395 | 414, _____, 410 |
|-----------------|-----------------|-----------------|

b. Nwalani momboro mbili dzi no tevhela iyi.

|                                   |                        |                        |
|-----------------------------------|------------------------|------------------------|
| 373, 375, <u>377</u> , <u>379</u> | 480, 482, _____, _____ | 262, 264, _____, _____ |
|-----------------------------------|------------------------|------------------------|

c. Nwalani momboro mbili dzi no tevhela iyi.

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| 346, 348, _____, _____ | 415, 417, _____, _____ | 297, 299, _____, _____ |
|------------------------|------------------------|------------------------|





## U dzhenisa dzithailisi



U pulanelo ngade

Mufumakadzi Vho Mabena vha na dzithailisi dza u naka.

Vha dzi shumisa kha u pheiva huñwe fhethu ngadeni yavho.

Hu na dzithailisi dza zwikwea zwa 6 zwa saizi nthihi.



|   |  |   |
|---|--|---|
| Ndi nga ita rou ya 1 nga dzithailisi dza 6. | Ndi nga ita rou dza 2 dici na dzithailisi dza 3 kha rou. | Ndi nga ita rou dza 3 dici na dzithailisi dza 2 kha rou iñwe na iñwe. |
|   |  |   |

$6 \times 1 = 6$

$3 \times 2 = 6$

$2 \times 3 = 6$

## Zwino ndi tshifhinga tshanu!

Olani zwibulo u sumbedza uri ni nga vhekanya hani dzithailisi dza zwikwea zwa 8 na 9.

|               |               |
|---------------|---------------|
| zwikwea zwa 8 | zwikwea zwa 9 |
|               |               |

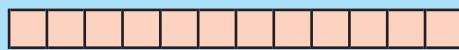
Nwalani mafhungombalo a nyolo iñwe na iñwe.



## U dzudzanya dzithailisi dza 12

Mukundi u na thailisi dza zwikwea zwa 12 dza u pheiva tsini na ndu. Mu thuseni a wane ndila dzothe dza u ita izwi. Nwalani fhungombalo la ndila iñwe na iñwe.

Tsumbo:



$$1 \times 12 = 12$$

$$12 \times 1 = 12$$

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



## U dzudzanya dzithailisi dza 24

- Shumisani gjiri i re kha tshigeriwa tsha 2.
- Swifhadzani zwibuloko zws 24 nga ndila dzo fhambanaho.
- Nwalani mafhungombalo u livhanyisa nyolo iñwe na iñwe.

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



Ndi a kona u andisa!

|                                      |  |                                       |
|--------------------------------------|--|---------------------------------------|
| $12 = 2 \times$ <input type="text"/> | $3 \times$ <input type="text"/> $= 12$ | $9 =$ <input type="text"/> $\times 3$ |
| $6 = 3 \times$ <input type="text"/>  | <input type="text"/> $\times 3 = 12$   | $24 = 3 \times$ <input type="text"/>  |



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Dethi:

## Nga dzi 5 u swika kha 500



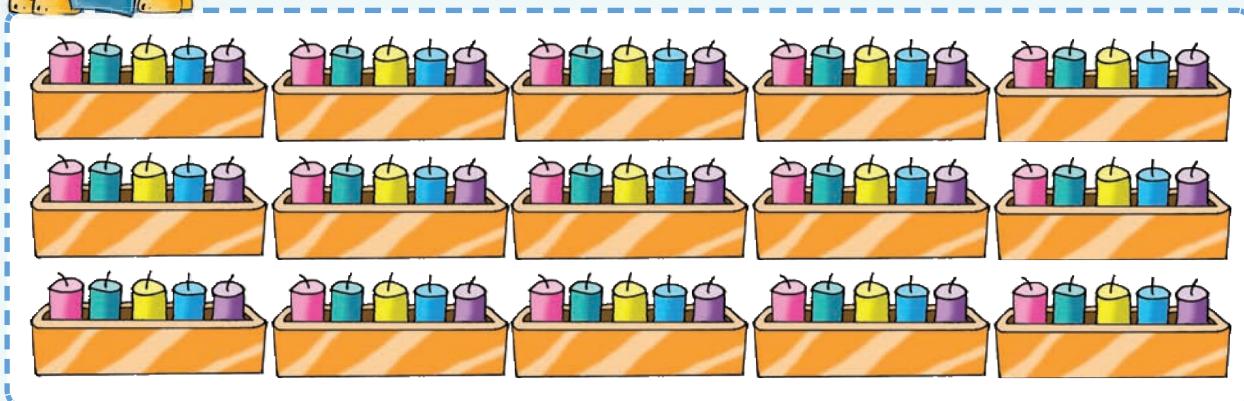
U ṭalukanya 5 dzanu

U ḥwala phindulo.

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



U ḥwala makhandela



- Hu na **makhandela** mangana **bogisini** ḥinwe na ḥinwe?
- Hu na **mabogisi** mangana kha rou iñwe na iñwe?
- Hu na **makhandela** mangana kha rou iñwe na iñwe?
- Hu na **makhandela** mangana o ḥangana o ḥe?



U sumbedza phindulo

Swayani (✓) mafhungombalo ane a sumbedza ḥhanganyelo ya tshivhalo tsha makhandela.

a.  $5 \times 3 \times 3 = \square$  b.  $15 \times 3 = \square$  c.  $3 \times 5 \times 5 = \square$  d.  $15 \times 5 = \square$



## U vhala ni tshi ya phanda na murahu nga 5

- a. 85; \_\_\_\_\_; \_\_\_\_\_; 70; \_\_\_\_\_; \_\_\_\_\_; 55; \_\_\_\_\_; \_\_\_\_\_  
 b. 240; \_\_\_\_\_; \_\_\_\_\_; 255; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 280  
 c. 405; \_\_\_\_\_; 395; \_\_\_\_\_; \_\_\_\_\_; 380; \_\_\_\_\_; \_\_\_\_\_; 365; \_\_\_\_\_



## U kuvhanganya khoini dza R5



Vhana vha kuvhanganya khoini dza R5. Ndi R5 nngana dzine vha do toda dza u ita?

|                            |                             |            |            |            |
|----------------------------|-----------------------------|------------|------------|------------|
| $R5 \div R5 =$<br>I khoini | $R10 \div R5 =$<br>2 khoini | R15? _____ | R20? _____ | R25? _____ |
| R30? _____                 | R35? _____                  | R40? _____ | R45? _____ | R50? _____ |

$$2 \times R5 = \boxed{R}$$

$$4 \times R5 = \boxed{R}$$

Ni a kona u  
vhona phetheni?

$$3 \times R5 = \boxed{R}$$

$$6 \times R5 = \boxed{R}$$



## U andisa nga 5

Tsumbo: I  $\times$  5 = 5; II  $\times$  5 = 10; 2I  $\times$  5 = 10

Humbulani nga vhutali! Fhatani nga ndivho ine na vha nayo!

| I  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
|----|----|----|----|----|----|----|----|----|----|
| 5  | 10 |    |    |    |    |    |    |    |    |
| II | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 55 |    |    |    |    |    |    |    |    |    |



11 12 13 14 15 16 17 18 19 20



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Themo ya 2



## U shuma nga tshifhinga



|                                |   |       |      |
|--------------------------------|---|-------|------|
|                                |   |       |      |
| Hafuu bva<br>kha awara<br>ya 5 | Kotara u ya<br>kha awara ya<br>vhufumithihi | 12:45 | 6:15 |

### Thaidzo dza tshifhinga

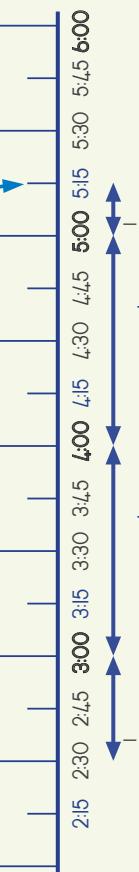
Mme a Tshilio vhabva hayani nga **2:30**.  
Vha vhaya nga **5:15**.

Vha vha siho lwa tshifhinga tshingafhani?  
Arali na flufluha phanda nga awara nfhifhehe, hu do vha hu 4:00.

Ri ng a shumisa tsumbatshifhinga ya zwiwo zwa ndeme kha u shuma phindulo.  
Vheani munwe wanu kha 2:30, tshifhinga tshine tsha vha tshone zwiwo.

Uffuhfela phanda hafhu roga inwe awara yote zwi do ni swilisa kha 5:00.

Arali na flufluha phanda nga  $\frac{1}{2}$  ya awara hu do vha hu 3:00.



$\frac{1}{2}$  ya awara ra tanganya na awara mbili dzothé zwita awara dza  $2\frac{1}{2}$ .  
Ra tanganya na  $\frac{1}{4}$  ya awara zwi ita awara dza  $2\frac{3}{4}$  zw tangana zwotché.

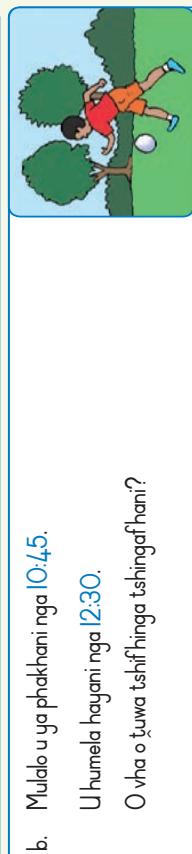
## Mbalo dza tshifhinga

Tandululani mbalo inwe na inwe.  
Shumisan i tsumbatshifhinga ya zwiwo zwa ndeme uri i ntihuse.

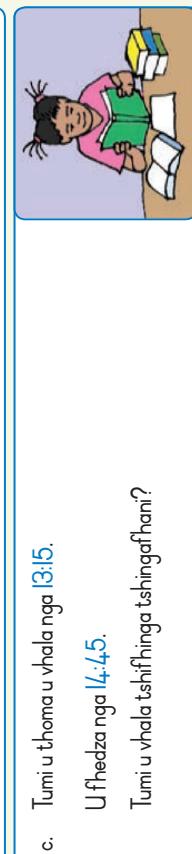
Jolani. Vhambedzani. Lulamisaní.



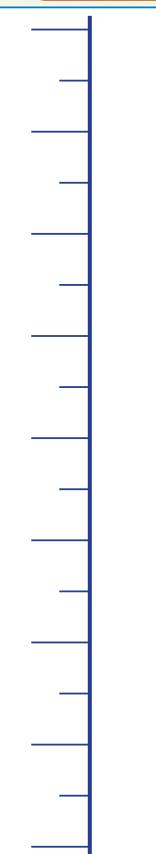
- a. Lutendo u ya u tolela khotsi awe kilinkinga **15:45**.  
U huma nga **17:15**.  
O fhedza tshifhinga tshingafhani?



- b. Mulalo u yaphakhani nga **10:45**.  
U humela hayani nga **12:30**.  
O vha o fuwa tshifhinga tshingafhani?

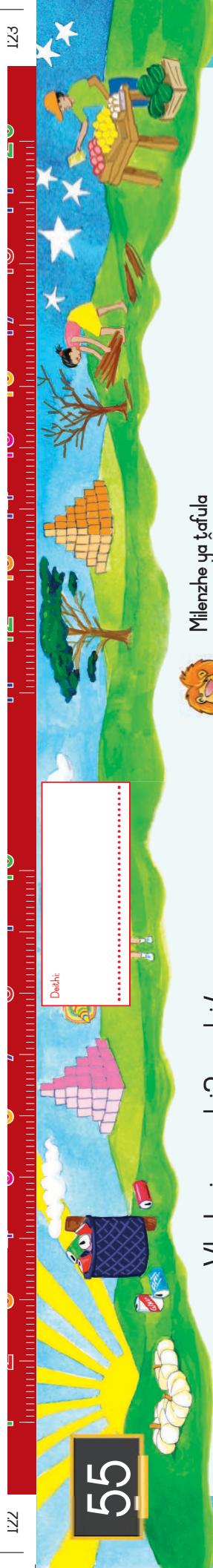


- c. Tumi u thoma u vhalanga **13:15**.  
U fhedza nga **14:45**.  
Tumi u vhalo tshifhinga tshingafhani?



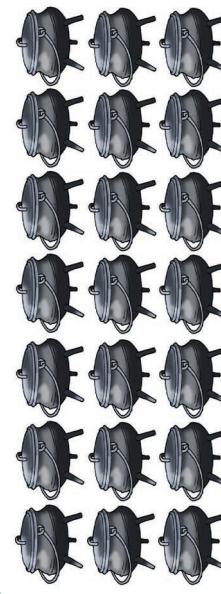
1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20



## Vhalani nga dži3 na dži4

Bodo dži re na milenzhe ya 3

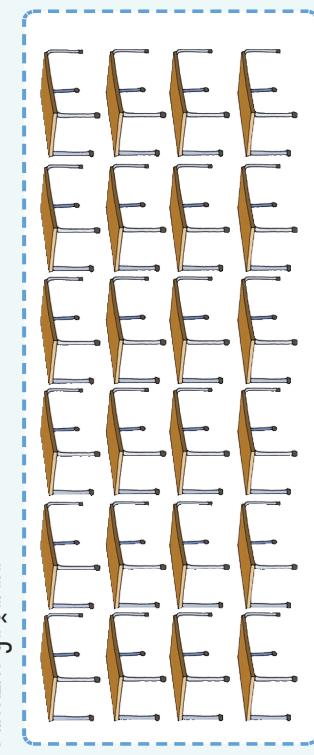


Tanganyani ni nwale phindulo.

Milenzhe ya tafula



Themba ya 2



- Hu na tafula nngana kha rou? \_\_\_\_\_
- Hu na milenzhe mingana kha rou? \_\_\_\_\_
- Hu na rou nngana dza tafula? \_\_\_\_\_
- Hu na milenzhe mingana yo tanganayothé? Sumbedzani uri no zwi shuma nga ndilade. \_\_\_\_\_



|  |
|--|
|  |
|  |



Femeni

Muhadqi u ita tafula. Uthoma nga u vhada milenzhe.

O no vhada milenzhe ya 48 u swika zwino. Ndi tafula nngana dzine a nga ita?

U do tafoda milenzhe mingana uri a ite tafula iinwe ntibhi?

|                        |    |                         |    |
|------------------------|----|-------------------------|----|
| bodo dza 1 milenzhe ya | 3  | bodo dza 10 milenzhe ya | 12 |
| bodo dza 2 milenzhe ya | 15 | bodo dza 11 milenzhe ya | 12 |
| bodo dza 3 milenzhe ya | 13 | bodo dza 12 milenzhe ya | 12 |
| bodo dza 4 milenzhe ya | 14 | bodo dza 13 milenzhe ya | 12 |

- (✓) Ndi mafhungombalo affio a re afho fhasi a no sumbedza tshanganyelo?  
 $21 \times 7 = \square$     $3 \times 7 \times 3 = \square$     $3 \times 4 \times 2 = \square$     $21 \times 3 = \square$

Hu na milenzhe mingana?  
**Elekanyani nga tashanya  
Elekanyani nga vhatali**



|     |   |    |    |    |    |    |    |    |    |    |
|-----|---|----|----|----|----|----|----|----|----|----|
| 2   | 3 | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| × 3 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |

|     |   |    |    |    |    |    |    |    |    |    |
|-----|---|----|----|----|----|----|----|----|----|----|
| 2   | 3 | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| × 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 |

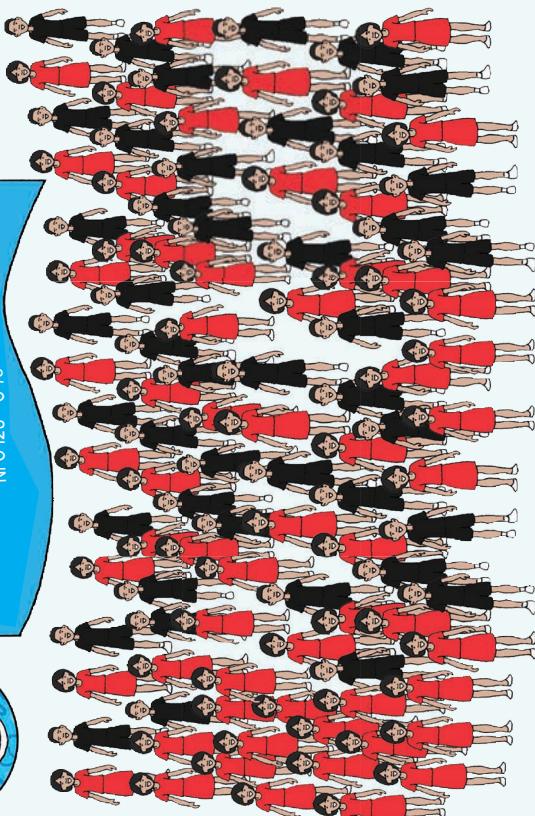
## Vhalani nga dzis 50

Niwana mutshihhi, nguvho nthihhi!

Huna vhana vhanganan? Anganyelani, ni kone u vha vhalla.

### Nguvho ya Fulufhelo.

Vhana vheshu kha vha duduwe.  
NPO 123 - 098



**Itani kosekose!**

R50 ya  
bai la



Vha badela vhugai?

Mafhungo u renga a 2.

Ubadele R

Mufumakadzi Vho Singo vha renga a 5.

Vha badela R

Vha whengele ja Thembini Stores  
Vha renga R

Vha whengele ja Thembini Stores  
Vha renga R

|                      |                       |
|----------------------|-----------------------|
| a 5 nga R50 = R250   | a 10 nga R50 = R500   |
| a 4 nga R50 = R ____ | a 15 nga R50 = R ____ |
| a 3 nga R50 = R ____ | a 6 nga R50 = R ____  |
| a 7 nga R50 = R ____ | a 12 nga R50 = R ____ |
| a 8 nga R50 = R ____ | a 9 nga R50 = R ____  |

Vhana vhotshhe vha re tsifanyisoni itshi vha friwa nguvho.  
Ndi vhana vhanganan vha re hone? \_\_\_\_\_

|             |         |             |
|-------------|---------|-------------|
| Anganyelani | Vhalani | Vhambedzani |
| _____       | _____   | _____       |

Ndi ☺ vhatukana vhanganan? \_\_\_\_\_ Ndi ☺ vhasidzana vhanganan? \_\_\_\_\_

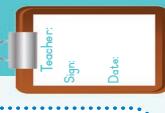


Zwi do dzia tshifinga tshingafhani? Shumisani khaleda.

Kilasi ya Gireidi ya 3 i kuvhanganya tshelede ya u renga nguvho dza 4.

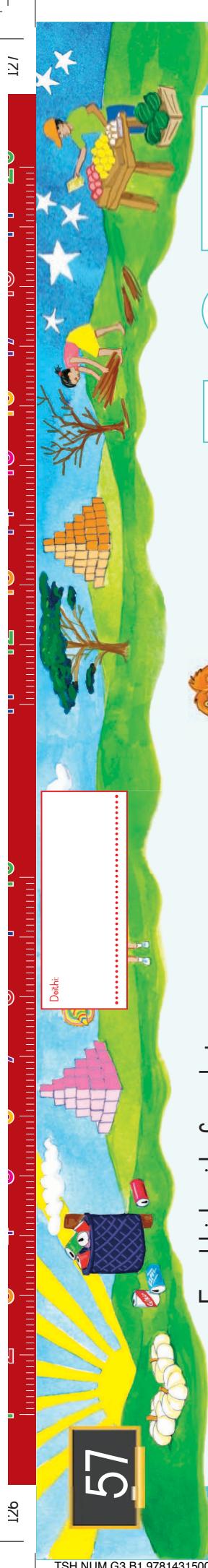
Vha kuvhanganya R5 nga duvhakha maduhakha 5 nga vhege.

Vha lila vhege nngara dza u kuvhanganya tshelede ya u renga mabai?



Teacher:  
Sign:  
Date:

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



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## Furakkisheni hafu na kota

Kovhani bola dizi tshi lingana afio zwibogisini



|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>Hu na bola nngana ibogisini lirwe na lirwe?</li> <li>Ndi bola nngana dizi re ibogisini la phephulu?</li> <li>Ndi furakkisheni ifhio ire ibogisini la phephulu?</li> </ul> | <ul style="list-style-type: none"> <li>Hu na bola nngana ibogisini lirwe na lirwe?</li> <li>Ndi bola nngana dizi re ibogisini la phephulu?</li> <li>Ndi furakkisheni ifhio ire ibogisini la phephulu?</li> </ul> |
|  |  |
|  |  |

Lavhelesani zwifanyiso ni fhindule mbudziso.



Ni konau vhala zwitendededzi zwingana?

$\frac{1}{2}$  ya zwitendededzi ndi ifhio?

$\frac{2}{4}$  ya zwitendededzi ndi ifhio?

$\frac{3}{4}$  ya zwitendededzi ndi ifhio?

$\frac{4}{4}$  ya zwitendededzi ndi ifhio?

Ni konau vhala zwitendededzi zwingana?

$\frac{1}{4}$  ya zwitendededzi ndi ifhio?

$\frac{2}{4}$  ya zwitendededzi ndi ifhio?

$\frac{3}{4}$  ya zwitendededzi ndi ifhio?

$\frac{4}{4}$  ya zwitendededzi ndi ifhio?

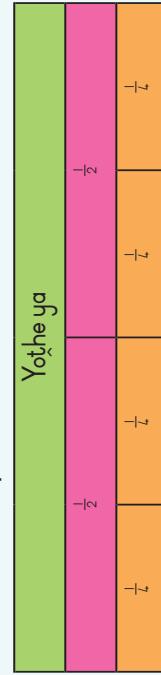
Khalarani  $\frac{1}{2}$  ya zwivhumbeo.

Khalarani  $\frac{1}{4}$  ya zwivhumbeo.

Khalarani  $\frac{1}{2}$  ya zwivhumbeo.

Khalarani  $\frac{3}{4}$  ya zwivhumbeo.

Lavhelesani zwitirepe (vhubammbiri) zwa furakkisheni

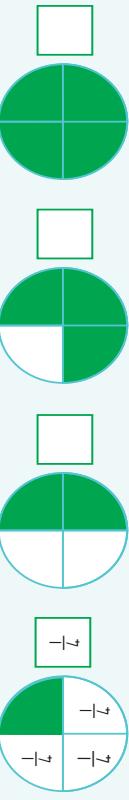


a. Ndi hafu ( $\frac{1}{2}$ ) nngana dizi no do ita yothé nthih?

Ndi kota ( $\frac{1}{4}$ ) nngana dizi no do ita yothé nthih?

Ndi kota ( $\frac{1}{2}$ ) nngana dizi no do ita yothé nthih?

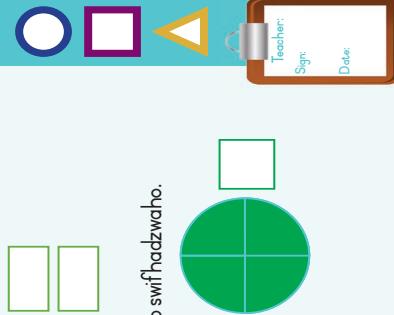
b. Lavhelesani daigiramu (nyolo) ni nwale furakkisheni ya tshipigla tscho swifadzwa.



c. Ndi furakkisheni ifhio ire khulwane  $\frac{1}{2}$  kana  $\frac{1}{4}$

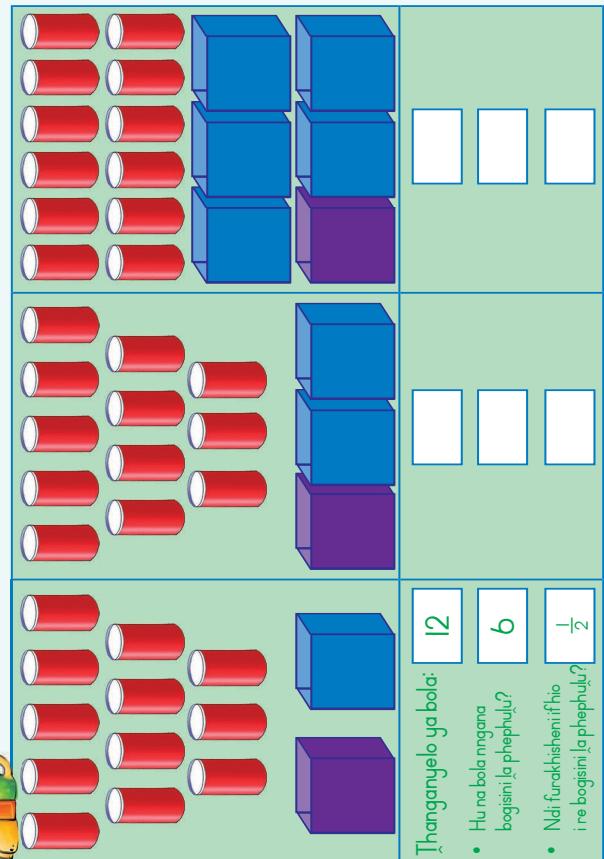
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Themo ya 2



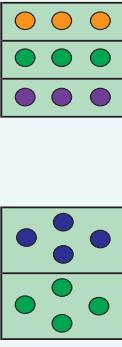
## Furakhisheni: hafu; zwararu na zvarathi

Kovhani zwikočukotj (silinda) nga u lingana mabogisini.



- $\frac{1}{2}$ ya zwitendeledzi ndi fihio?
- ya zwitendeledzi ndi fihio?

Lavhelesani zwifanyiso ni hindule mbudiso.

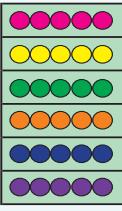


Ni konau vhalo  
zwitendeledzi zwingana?

$\frac{1}{2}$ ya zwitendeledzi ndi fihio?

ya zwitendeledzi ndi fihio?

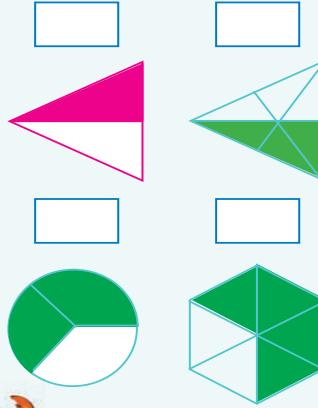
ya zwitendeledzi ndi fihio?   
ya zwitendeledzi ndi fihio?   
ya zwitendeledzi ndi fihio?   
ya zwitendeledzi ndi fihio?



Tangedzelani furakhisheni khulwane.

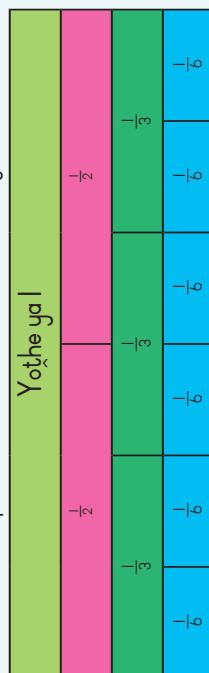
- a.  $\frac{1}{2}$   $\frac{1}{3}$
- b.  $\frac{1}{2}$   $\frac{1}{6}$
- c.  $\frac{1}{2}$   $\frac{2}{6}$

Nwalani furakhisheni ya tshipida tsaho swifhadzvaho.



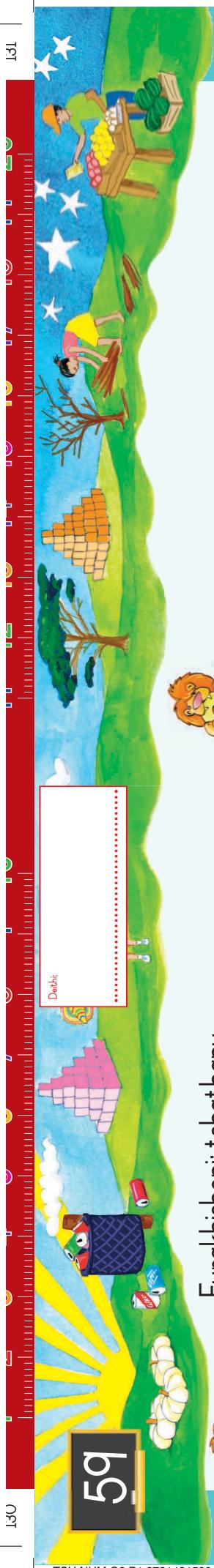
- Sumbedzani hafu kha rula. Hetshi tshi lingana na \_\_\_\_ cm
- Sumbedzani tshararu kha rula. Hetshi tshi lingana na \_\_\_\_ cm
- Sumbedzani tsharathsi kha rula. Hetshi tshi lingana na \_\_\_\_ cm

Lavhelesani zwitirepe zwa furakhishini. Fhedisan i mafungo.



- Hu na hafu dza \_\_\_\_ kha yothé.
- Hu na zwararu zwa \_\_\_\_ kha yothé.
- Hu na zwartchi zwa \_\_\_\_ kha yothé.
- Hu na zwartchi zwa \_\_\_\_ kha hafu.
- Hu na zwartchi zwa \_\_\_\_ kha tshararu.

Teacher:  
Sign:  
Date:

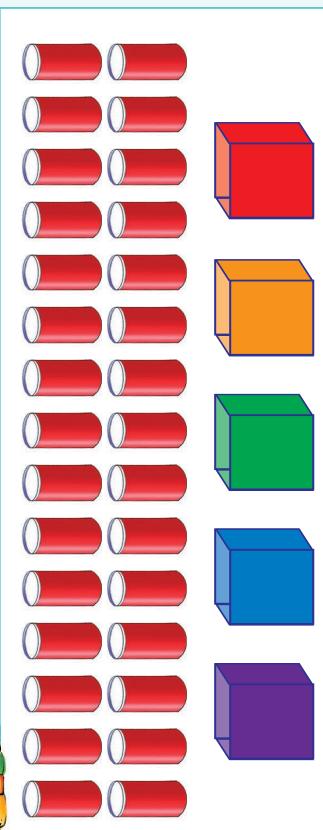


## Furakhisheni: tshat̄hanu

Kovhani zwikot̄koti mabogisi.

**5q**

Themba ya 2



- Hunna zwikot̄koti zwa **6** kha  $\frac{1}{5}$  ya mabogisi.
- Hunna zwikot̄koti zwa  kha  $\frac{2}{5}$  ya mabogisi.
- Hunna zwikot̄koti zwa  kha  $\frac{3}{5}$  ya mabogisi.
- Hunna zwikot̄koti zwa  kha  $\frac{4}{5}$  ya mabogisi.
- Hunna zwikot̄koti zwa  kha  $\frac{5}{5}$  ya mabogisi.

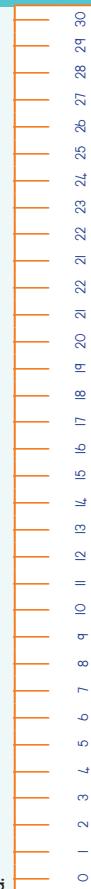


Lavhelesani zwifanyiso ni fhindile mbudziso.

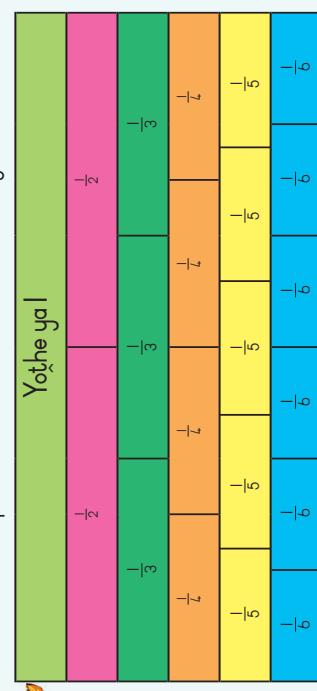
Hunatshokoleithi mingana bogisi?

- $\frac{1}{5}$  ya tshokoleithi i lingana na
- $\frac{2}{5}$  ya tshokoleithi i lingana na
- $\frac{3}{5}$  ya tshokoleithi i lingana na
- $\frac{4}{5}$  ya tshokoleithi i lingana na
- $\frac{5}{5}$  ya tshokoleithi i lingana na
- Linwe duvhha ndola  $\frac{1}{5}$  ya tshokoleithi. Ho sala tshokoleithi nngana?
- Linwe duvhha ndo dovhanda  $\frac{1}{5}$  ya tshokoleithi. Ho sala tshokoleithi nngana?

Mivhala ya zwishumiswa zwa u ela.



Lavhelesani zwit̄irepe zwa furakhisheni. Fhedzisani mafhungo.



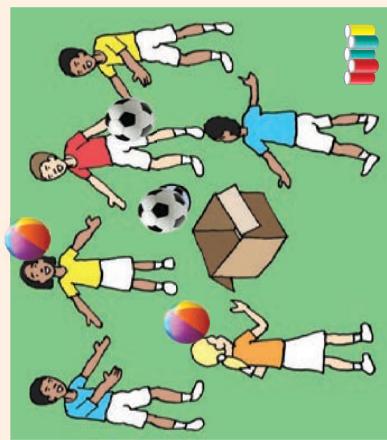
Tangedzelani zwihulwane kana zwit̄uka

- a.  $\frac{1}{2}$  ndi khulwane /t̄hukhukha  $\frac{1}{4}$ .
- b.  $\frac{1}{3}$  ndi khulwane/t̄hukhukha  $\frac{1}{2}$ .
- c.  $\frac{1}{5}$  ndi khulwane/t̄hukhukha  $\frac{1}{6}$
- d.  $\frac{1}{6}$  ndi khulwane/t̄hukhukha  $\frac{1}{3}$
- e.  $\frac{3}{6}$  ndi khulwane/t̄hukhukha  $\frac{2}{5}$

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

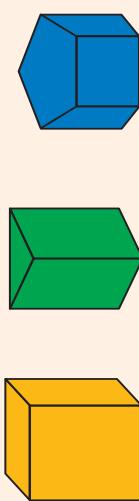
## Zwihu zwa 3D

Themyo ja 2

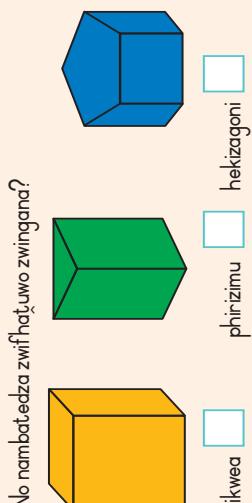


Hezi zwothe ndi mabogisi.

Shumisani Zwigeriwa zwa mabammbiri a 3 na 4 khal khau vhumbao izwi zwithu.



Fhethu huriwe na huriwe ha baphathi hupi ndi lurumbu (phanda ha). Nambatedzani tshifhatuwo tschiwe na tschiwe tshino khau nwethuwa kha lurumbu lwa bogisi. No nambatedza zwifhatuwo zwingana?



tshikwea

phirizmu

hetkagoni

Zwino itani silinda nga Tshigeriwa tsha 4.

Vhurumbu ha phirizimu ndi ha baphathi kana ho kuta?



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

Tolutshedzani tshimo tsha silinda ni tshi shumisa maipf' aya  
Tolutshedzani tshimo tsha silinda ni tshi shumisa maipf' aya

Nga nt̄ha



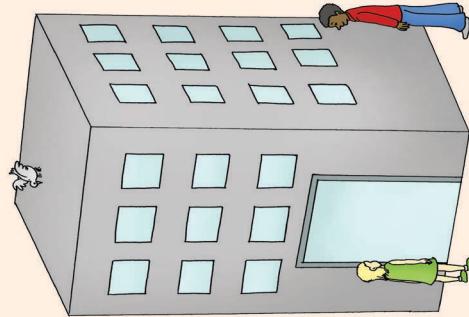
Ngo phanda



Nga lurumbu



Shumisani maipf' a re afho fhasi kha u fhedzisa maipf' hungo.



Musidzana o sedza \_\_\_\_\_ ha tshifhatso.

Munna o sedza \_\_\_\_\_ iwa tshifhatso.

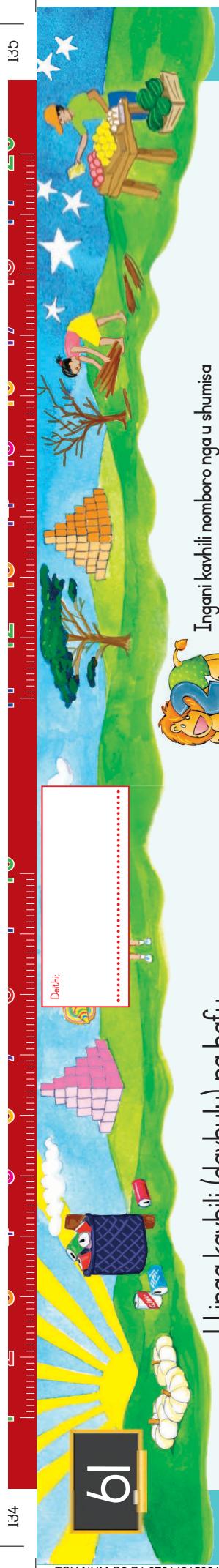
Tshiloni tsho sedza \_\_\_\_\_ hatshifhatso.

lurumbu

phanda

nt̄ha



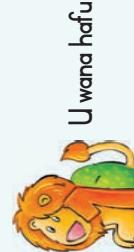
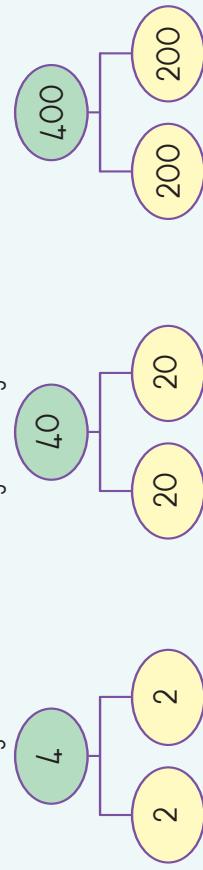


## Uinga kavhili (davhulu) na hafu

Ni kha di elewia?

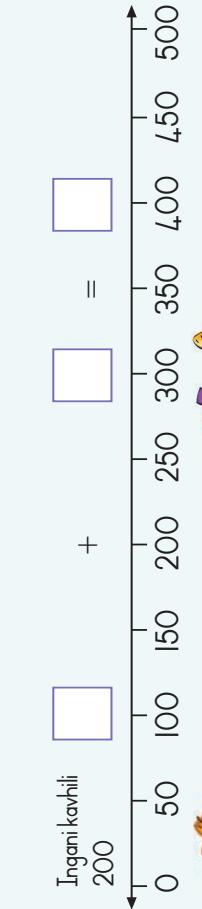
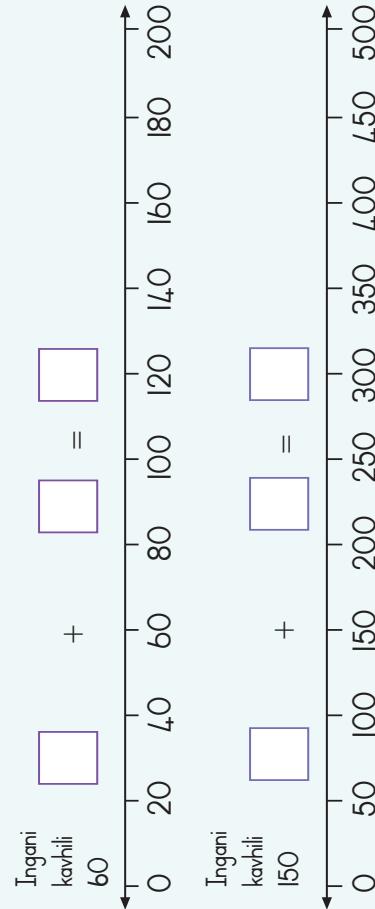
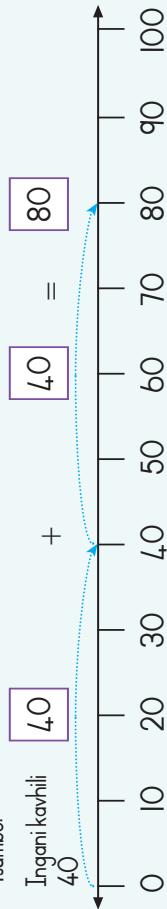
- 2 ndi hafu ya 4      4 ndi davhulu ya 2
- 20 ndi hafu ya 40      40 ndi davhulu ya 20
- 200 ndi hafu ya 400      400 ndi davhulu ya 200

Elewani! Ni nga sumbedza izwi zwitshu kha nyolo (tshifanyiso) ...

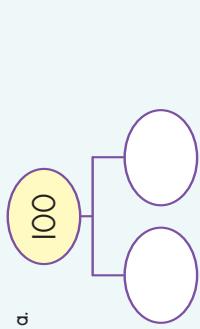
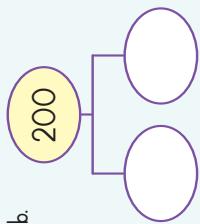
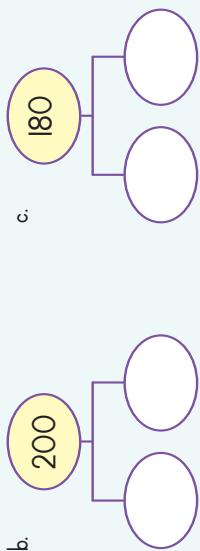


Themo ya 2

Tsumbo:  
Inganikavhili 40



Fhedzisani zwi tsviheldaho



Fhedzisani zwi tsviheldaho

a. Ingani kavhili 100      200  
b. Ingani kavhili 150  
c. Ingani kavhili 120  
d. Ingani kavhili 200  
e. Ingani kavhili 170

a. Hafulani 220      110  
b. Hafulani 180  
c. Hafulani 260  
d. Hafulani 60  
e. Hafulani 320

|                          |                                     |                          |
|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Teacher: _____           |                                     |                          |
| Sign: _____              |                                     |                          |
| Date: _____              |                                     |                          |

11 12 13 14 15 16 17 18 19 20

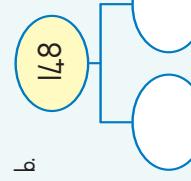
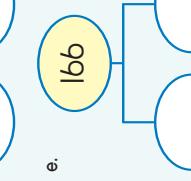
11 12 13 14 15 16 17 18 19 20

62

Themba ya 2

## Zwiinwe hafhu zwa u davhula na u hafu

U wana nga zwiinhili kana hafu

- a.  73
- b.  148
- c.  q6
- d.  134
- e.  8q
- f.  8q

## Vhulungelani basigiri

Peter u vhulungana R25 nge vhege yuu reng basigiri.  
Ndi vhege nngana dzine a tea u vhulunga khadzo?

Phindulo; dzivhege dza 

## Mutengo wo tsa

Aitheme dzothe dici kha mitengo ya fhasi nga hafu.  
Nwalanani mutengo wa fhasitsini na aitheme inwe na inwe.

- a.  Mabai RI90
- b.  Malagane RI54
- c.  Mutengo wa fhasi
- d.  Khushini R54
- e.  Zwidulo R220
- f.  Mutengo wa fhasi

100

11

12

13

14

15

16

17

18

19

20

## Ndi rannda nngana?

Musau khou ɯoda hemmbe. U na hafu fhedzi ya mutengo wa hemmbe.



R135

Ndi vhugai ine ya kha ɯi t̄ahela? R \_\_\_\_\_



R7850

Zwienda zwa Peter zwi ɯura kavhili u fhira izwi.



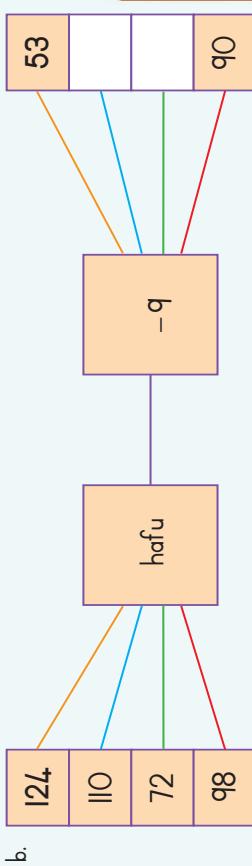
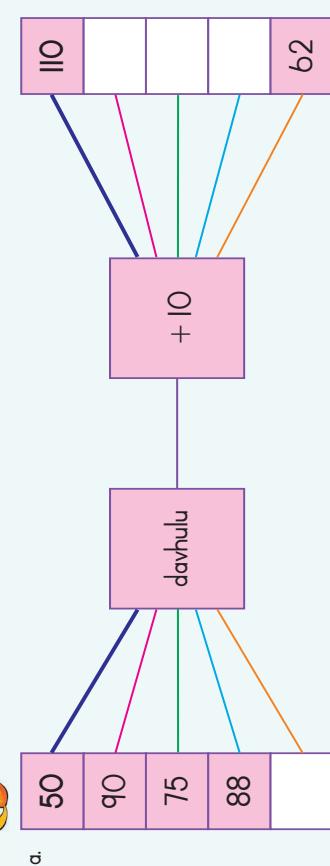
R97

Mutengo wa rokho ya Phindii ɯura vhugai? R \_\_\_\_\_



Hu dzhenha mini? Ha bvva mini?

Tevhebzani tsumbo. Dzhenisanzi nomboro dici no khou ɯahela.



**Seili R450  
R900**



- a.  Malagane RI54
- b.  Mutengo wa fhasi
- c.  Khushini R54
- d.  Mutengo wa fhasi

10

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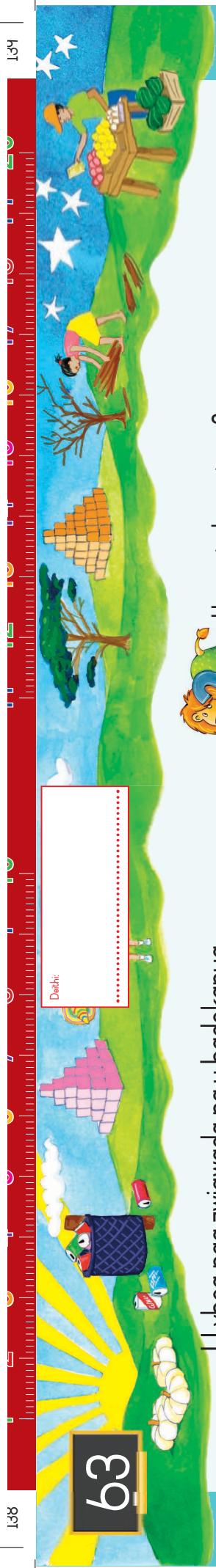
16

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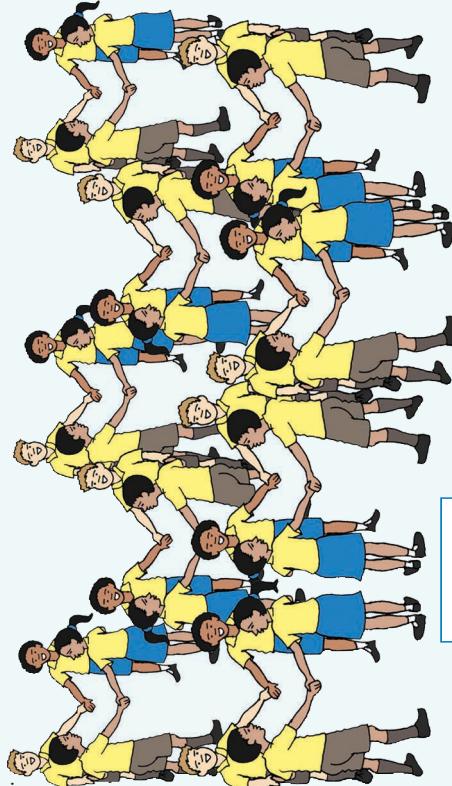
63

Themba ya 2

## U vheea nga zwigwada na u badekanya

Vheani vhana nga zwigwada

Mufumakazi Vho Ndaba vha tqoda u khethekanya kilasi ya bva zwigwada zwa saizi dici lingandaho u itela mitambo ya mngala ka kilasi. Vha thoma nga u vha vhekanya nga zwigwada zwa thimu dia vhana vha 4.



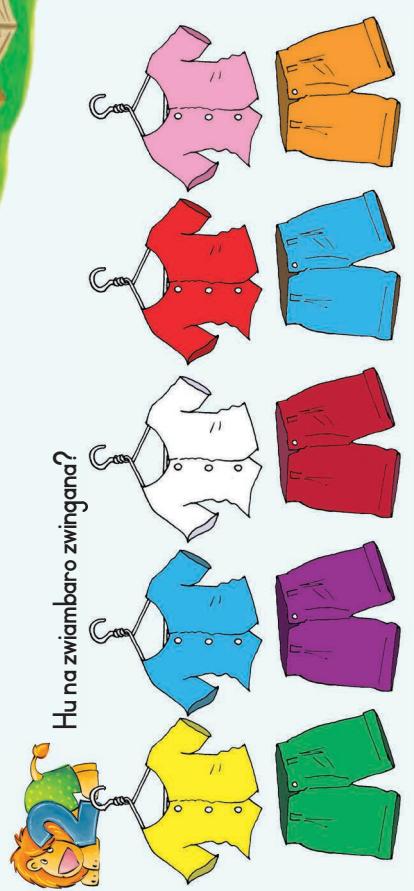
Tolani. Vhambedzani.  
Lulamisanai.

- Vhalani vhana.
- Vha konau vhumba thimu nngana?
- Sumbedzani dziniwe ndila dzothe dzine vhana vha nga khethekanya ha bva zwigwada zwa saizi dici no lingana.

Humbulelani: Hu nga itea mini arali Phindi e na mivhala ya 6 yo fhambanaho ya hembe na maruku mofufhi?  
Ndi zwiambaro zwingana zwine a nga ita?

Tolani. Vhambedzani.  
Lulamisanai.

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



Hu na zwiambaro zwingana?

Phindi una hembe dza 5 dia mivhala na marukhu matuku a 5 a mivhala.

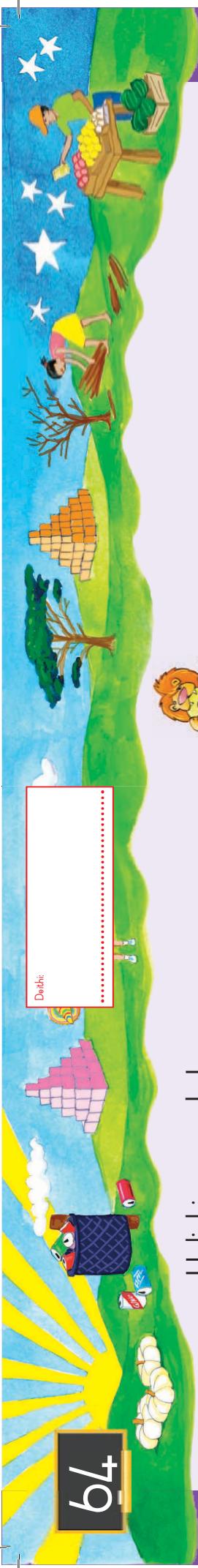
Ndi zwiambaro zwingana zwe fhambanaho zwine a nga zwi ita a tschi khou shumisa u tanganelana ha mivhala ho fhambanaho?

Satsumbo: Hembe ya lutombo/vhurukku vhupfufhi ha lutombo. Sumbedzani khondadzeo dzinwe dzothe dia vhfufhi ha tshticpana.

Nwalani ledere la u thoma la muvhala munwe na muvwie. Sumbedzani khondadzeo dzinwe dzothe dia zwiambaro.



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## U diphina nga mbalo

Icani mulayo

Shumisani mulayo uyu kha u wana nomboro dici no khau ḫahela

U wana nomboro

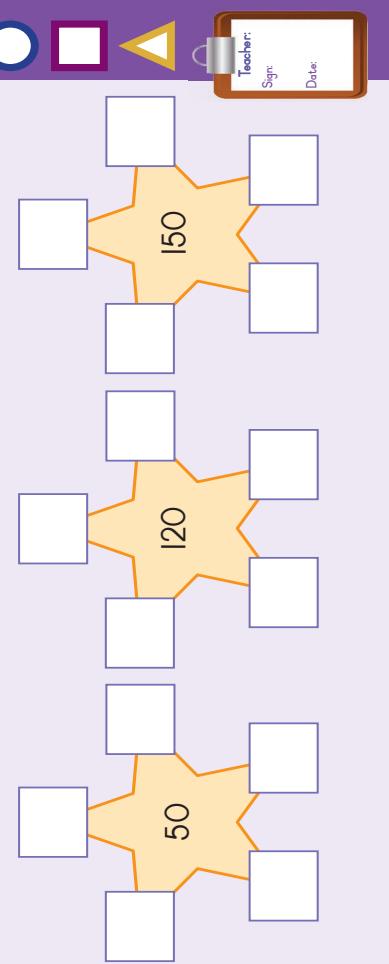
a. Mulayo 3: Nomboro dici re kha rau inwe na inwe dici teu u vhumba ibo dzo ṭangana.

|   |   |   |   |
|---|---|---|---|
| 2 | 5 | 3 | 6 |
|   |   |   | 2 |
|   |   |   |   |
|   |   |   |   |

b. Mulayo: Nomboro dici 3; u budana rou na u tsa na kholumo; dici ita ṭhanganyelo nthiki dzo ṭangana dzothe.

|   |   |   |  |
|---|---|---|--|
| 2 | 7 | 6 |  |
| q |   | 1 |  |
|   | 3 | 8 |  |
|   |   |   |  |

c. Mulayo: Dzherisanii nomboro dza 5 dzinwe na dzinwe dzine dzo ṭangana dzothe dza ita nomboro i re ngemu ha naledzi.



| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | q | 0 |

## Theme ya 2

Zwino shumani hedzi

|    |   |   |   |   |
|----|---|---|---|---|
| 14 | 8 | 6 | 3 | 3 |
| 5  | 3 |   |   |   |
|    |   |   |   |   |
|    |   |   |   |   |

|    |   |   |
|----|---|---|
| 17 | 8 | q |
|    |   |   |
|    |   |   |
|    |   |   |

|    |  |  |  |  |
|----|--|--|--|--|
| 20 |  |  |  |  |
|    |  |  |  |  |
|    |  |  |  |  |
|    |  |  |  |  |

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

|    |  |  |  |  |
|----|--|--|--|--|
| 20 |  |  |  |  |
|    |  |  |  |  |
|    |  |  |  |  |
|    |  |  |  |  |

|    |  |  |  |  |
|----|--|--|--|--|
| 20 |  |  |  |  |
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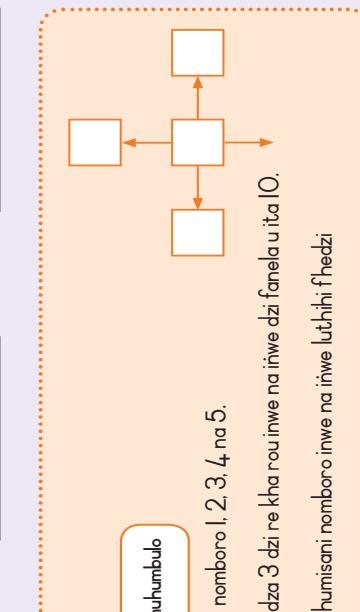


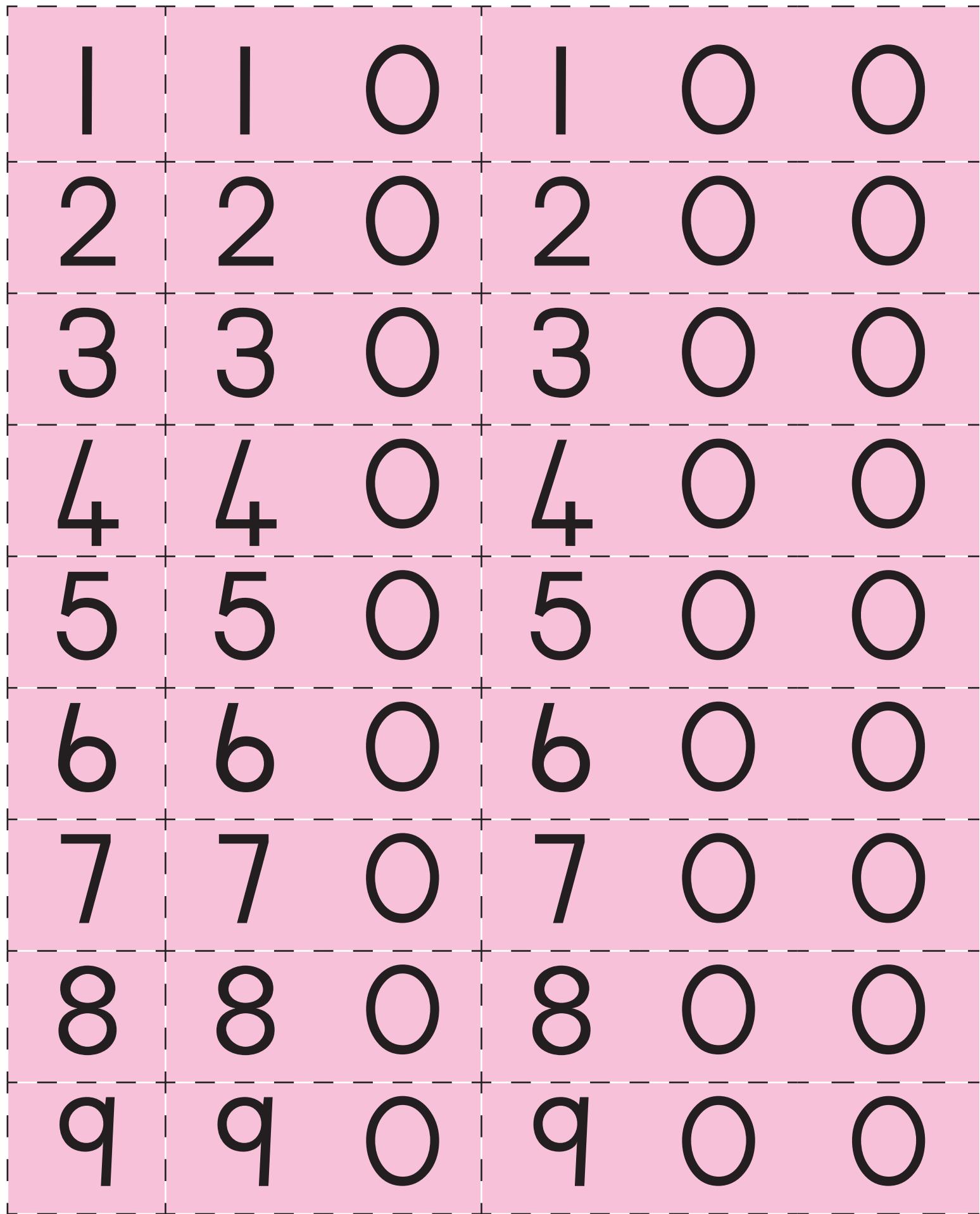
Shumisani muhumbulu

Shumisani nomboro 1, 2, 3, 4 na 5.

Nomboro dici re kha rau inwe na inwe luthiki i Hedzi.

Mulayo: Shumisani nomboro inwe na inwe luthiki i Hedzi.





I O O

I O I

2 O O 2 O 2

3 O O 3 O 3

4 O O 4 O 4

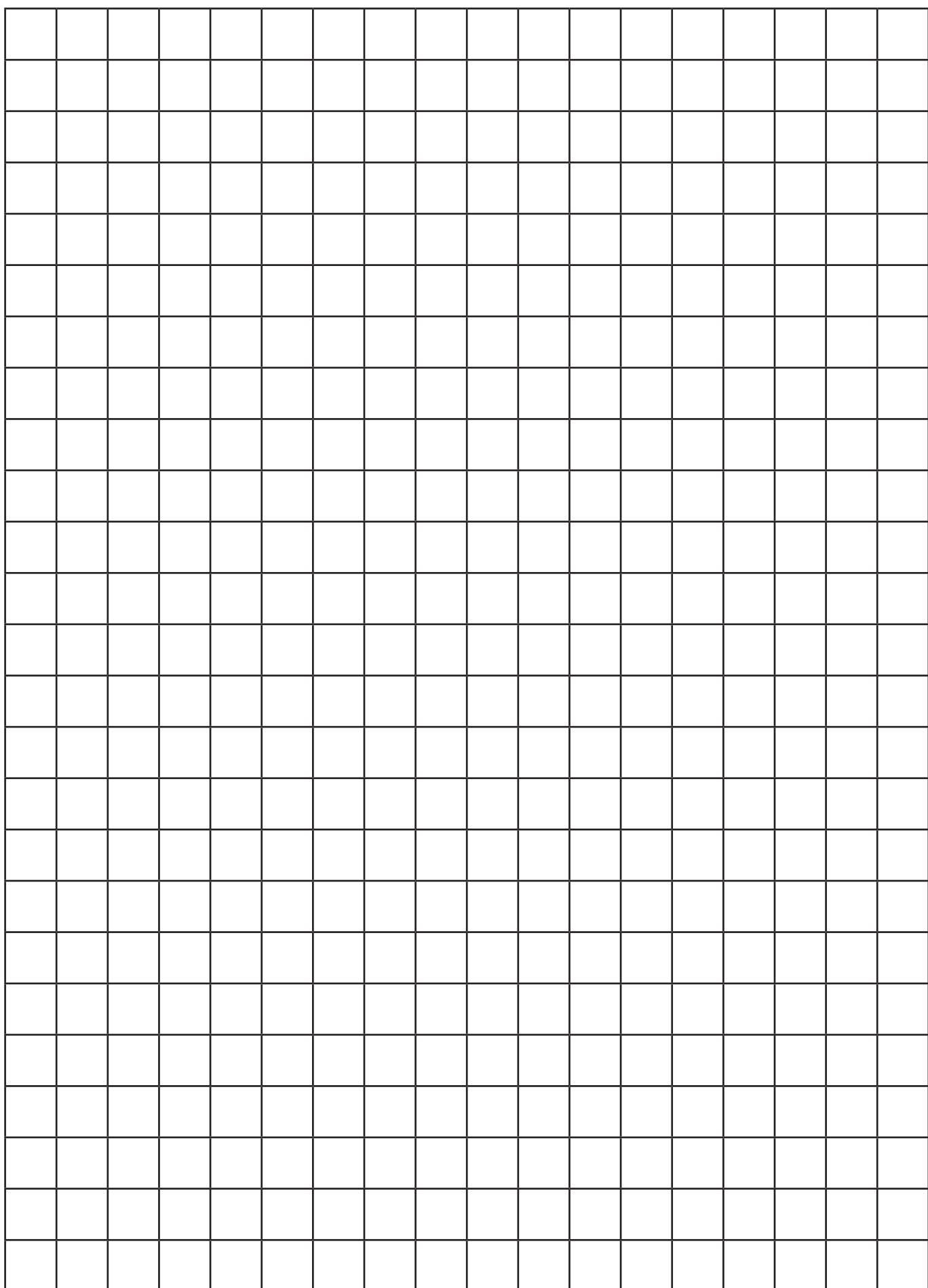
5 O O 5 O 5

6 O O 6 O 6

7 O O 7 O 7

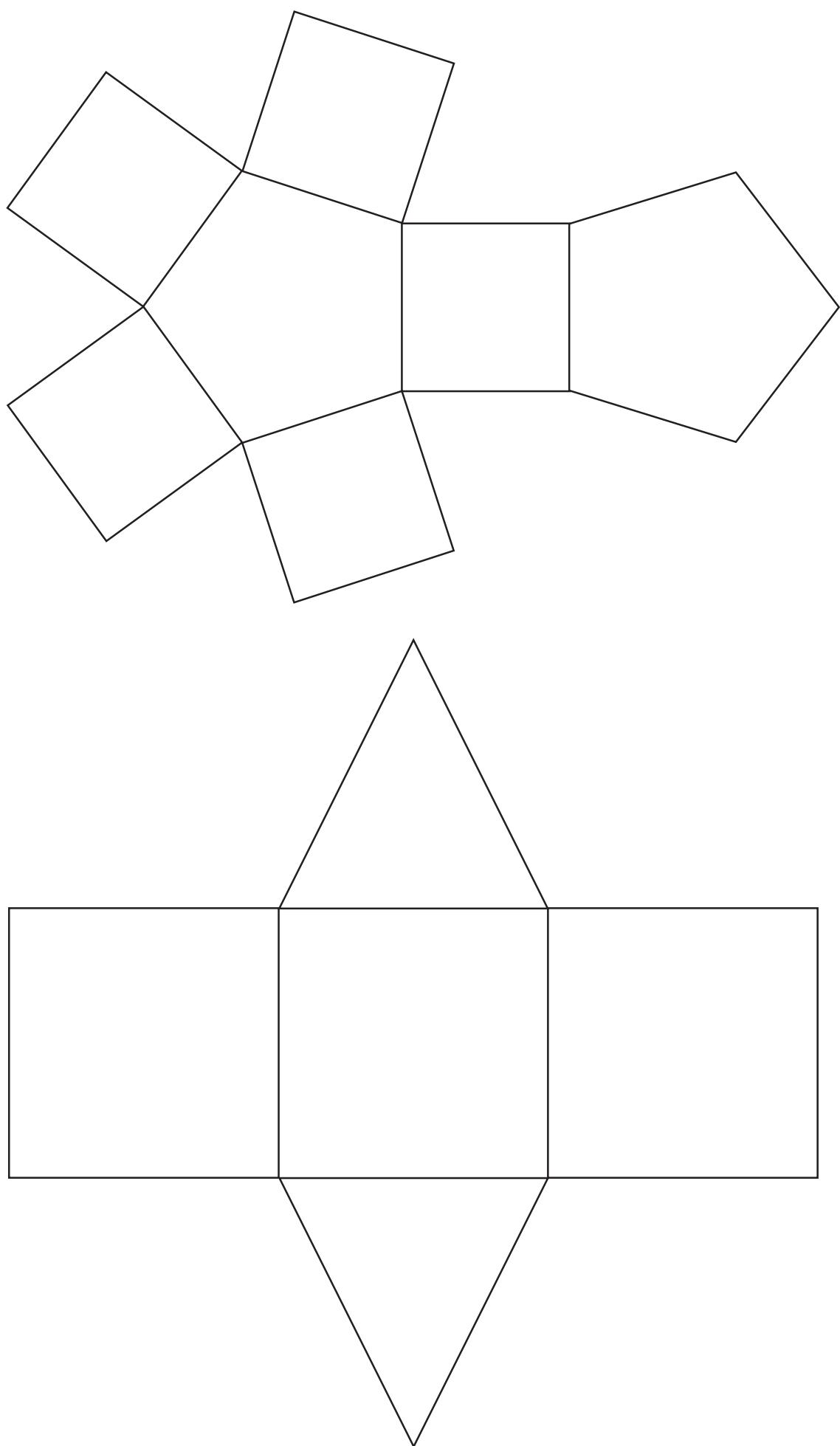
8 O O 8 O 8

q O O q O q





Cut-out 3





Cut-out 4

