U ʈalukanya Mulayotewa (Ndayotewa) wa Riphabuḷiki ya Afrika Tshipembe (1996)

Milayo ya nṭhesa ya shango i wanala kha Mulayotewa (Ndayotewa) wa Riphabuḷiki ya Afrika Tshipembe (1996). Milayo iyi i na maanḓa u fhira na muphuresidennde, maanḓa ayo a fhira a dzikhothe na a muvhuso woṭhe.

Ndi milayo ine ya laya vhathu vha ḷino shango uri vha tea u farana nga nḓilaḓe. Mulayotewa wa shango wo itelwa u tsireledza roṭhe ri no khou tshila zwino na vhana vhashu vhane vha kha ḓi ḓo ḓa.

ʈalukanyani hune ra bva hone.	Ri songo dovha vhukhakhi ha mulovha.	Mulayotewa washu u ri thusa uri ri elekanye nga vhumatshelo ha khwiṋe ha roṭhe khathihi na u vhu fhaʈa.

Riṋe, vhathu vha Afrika Tshipembe;

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

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

Ri ʈhonifha havho vhe vha shuma vha tshi itela u fhaʈa na u bveledzisa shango ḽashu; na

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

Zwenezwo, nga kha vhaimeleli vho khethiwaho zwavhuḓi, ri khou ʈanganedza ino Ndayotewa sa wone Mulayo Muhulusa wa Riphabuḷiki uri u—

- Fhelise khethululo ya tshifhinga tsho fhelaho na u thoma tshitshavha tshine tsho ḓisendeka kha ndeme dza demokirasi, vhulamukanyi ha matshilisano na pfanelo dza vhuthu;
- Fhaṭe mitheo kha demokirasi na tshitshavha tshi re khagala hune
- muvhuso wo ḓisendeka kha lufuno lwa vhathu nahone vhadzulapo
- vho tsireledzwa nga mulayo nga nḓila I linganaho;
- Khwinisa ndeme ya Vhutshilo ha vhadzulapo vhoṭhe na u vhofholola vhukoni ha muthu muṅwe na muṅwe; na
- Fhaʈa mbumbano na demokirasi zwa Afrika Tshipembe uri ḽi kone u vha fhethu ho teaho sa muvhuso wo ḓiimisaho kha muʈa wa tshaka.

Shumisani pfanelo dzaṇu sa mudzulapo wa Afrika Tshipembe ni dovhe ni vhe na vhuḓifhinduleli ha u tsireledza pfanelo dza vhaṅwe.	Ḓivhani Mulayotibe Wa Pfanelo na Mulayotibe Wa Vhuḓifhinduleli.

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

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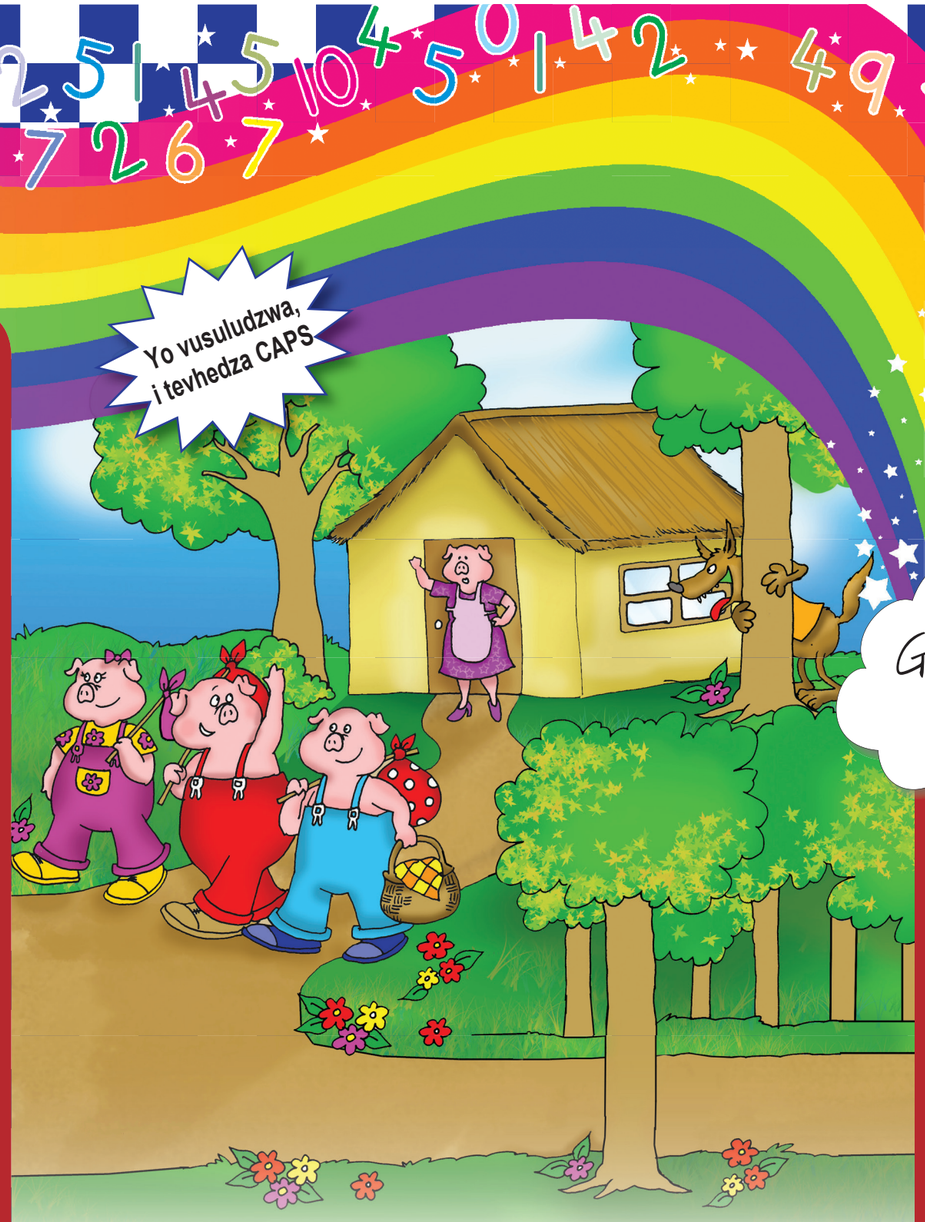

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ḒIVHAMBALO NGA TSHIVENḒA

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Themo 3 & 4

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Vho Angie Motshekga
Minista wa Muhasho wa Pfunzo ya Muteo



Vho Dr. Reginah Mhaule
Muthusaminista wa Pfunzo ya Muteo

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

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

Ri fulufhela uri vhadededzi vha ḓo vhona ndeme ya bugu idzi kha u funza havho ha ḓuvha ḽiṅwe na ḽiṅwe vha dovha vha ita uri vhagudi vha kone u khunyeledza kharikhuḽamu yoṱhe. Ro lingedza nga nḓila dzoṱhe u sumbedza vhagudisi kha nyito iṅwe na iṅwe nga u dzhenisa aikhoni dzine dza sumbedza zwine vhagudi vha fanela u ita.

Ri na fulufhelo ḽoṱhe ḽa uri vhagudi vha ḓo ḓiphina nga u shuma nga idzi bugu musi vha tshi khou aluwa na u guda, na uri vhone sa vhadededzi vha ḓo vha na mukovhe kha dakalo iḽi.

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

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Gireidi ya 1

Rainbow WORKBOOKS

Mbalo

NGA TSHIVENḒA

Bugu iyi ndi ya:





TSHIVENḒA

Bugu ya 2

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



Deithi:

Pfesesani nomboro 11

Mvusuludzo:

Itani ndowendowe ya u ṅwala nomboro.



thihi

1 1

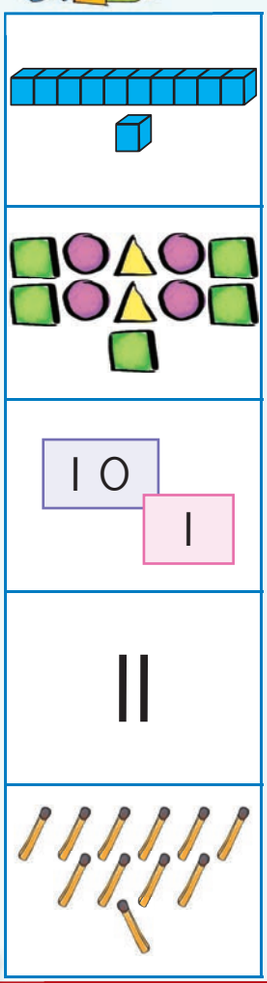


mbili

2 2



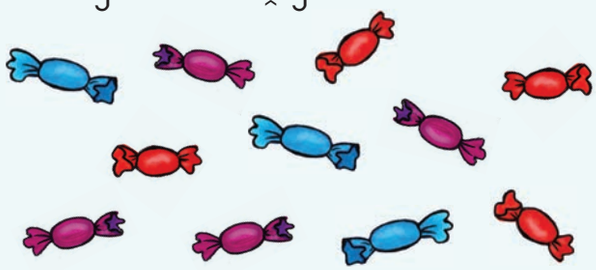
Livhanyani zwifanyiso.





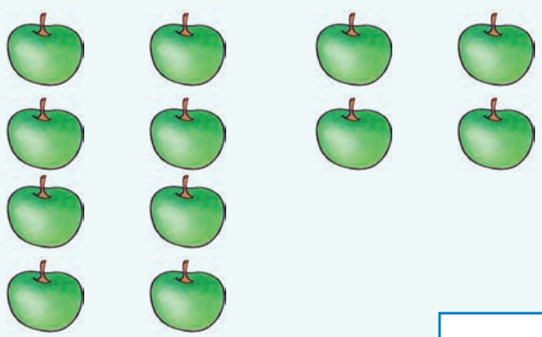
Tangedzelani zwithu.

Tangedzelani malegere a 10 fhedzi.

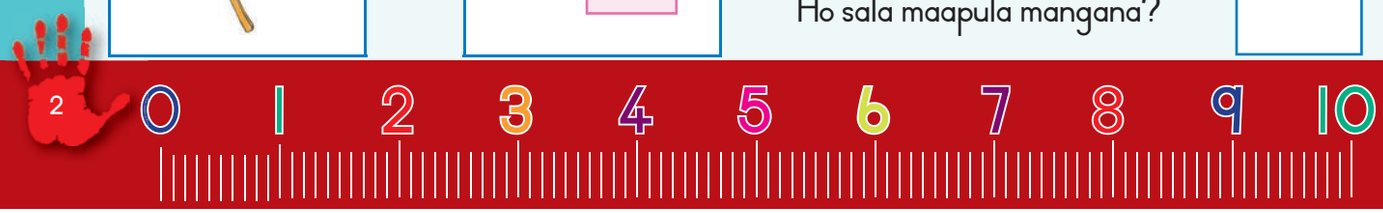


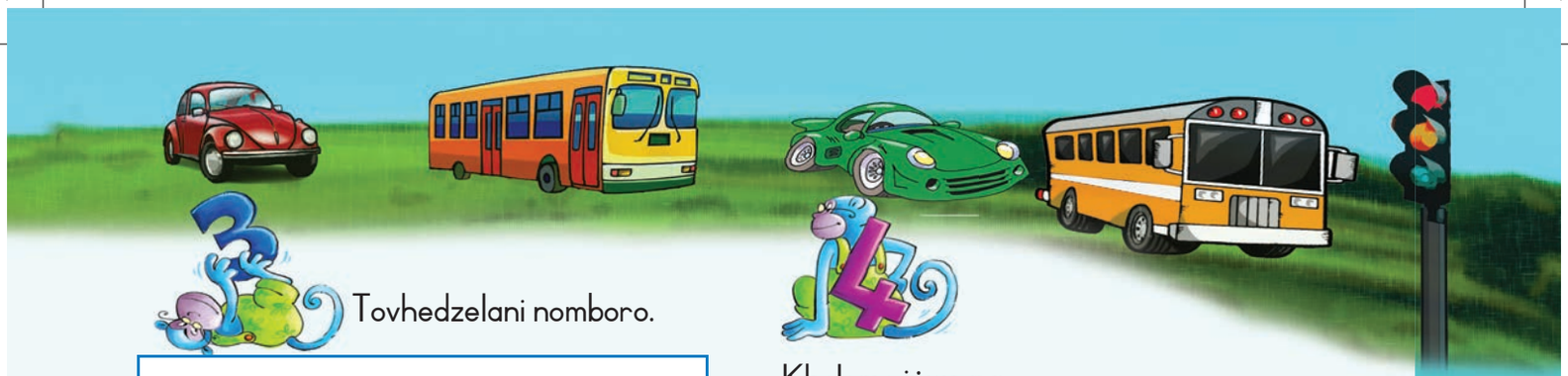
Ho sala malegere mangana?

Tangedzelani maapula a 10 fhedzi.



Ho sala maapula mangana?





Tovhedzelani nomboro.

||	||	||	||
fumithihi			
||	||	||	||

Kholomo iṅwe na iṅwe i tea u vha na ṱhanganyelo ya II. Ṅwalani nomboro dzi no khou ṱahela.

3	5	4
4	5	
4		2
II	II	II

Olani zwithu zwa II.

Ṅwalani nomboro dzi no khou ṱahela.

1	2		4	

Vhalani zwithu.

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

		fumithihi
	||	fumithihi
II		
	fumithihi	

Ndi nomboro ifhio i re ṱhukhu kha II nga thihi?

_____

Ndi nomboro ifhio i re khulwane kha II nga thihi?

_____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Deithi:

Pfesesani nomboro 12

Mvusuludzo:

Itani ndowendowe ya u ṅwala nomboro.

raru	3 3
iṋa	4 4



Livhanyani zwifanyiso.

	12
10 2	
12	
	10 2



Tangedzelani zwithu.

Tangedzelani zwienda zwa 10 fhedzi.



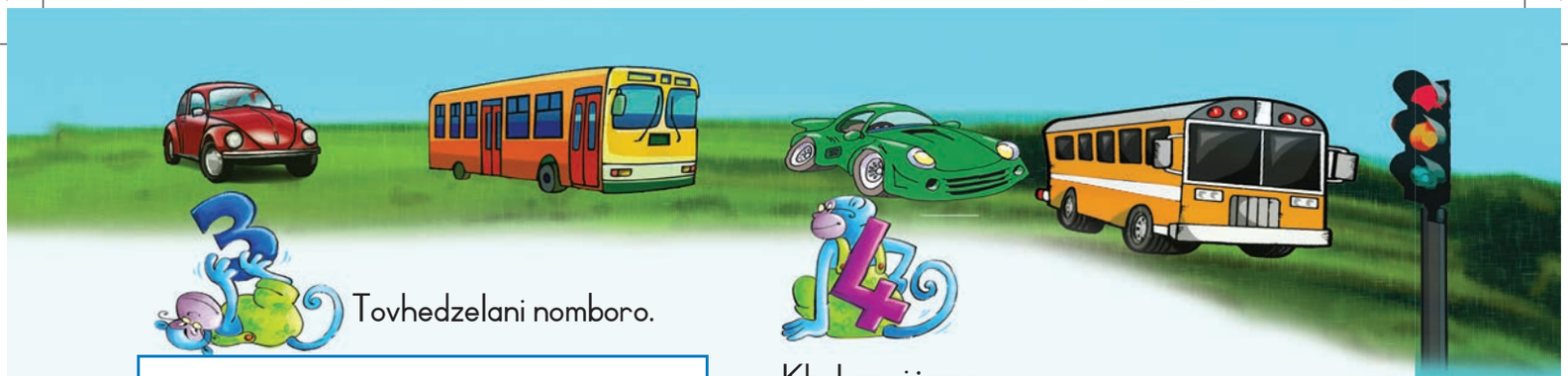
Ho sala zwienda zwingana?

Tangedzelani khambalwanzhe dza 12 fhedzi.



Ho sala khambalwanzhe nngana?

0 1 2 3 4 5 6 7 8 9 10



Tovhedzelani nomboro.

12	12	12	12
fumimbili			
12	12	12	12

Kholomo iṅwe na iṅwe i tea u vha na ṱhanganyelo ya 12. Ṅwalani nomboro dzi no khou ṱahela.

	7	6
4		4
3	2	
12	12	12

Olani zwithu zwa 12.

Ṅwalani nomboro dzi no khou ṱahela.

3		5			
8			11		

Vhalani zwithu.

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

		fumimbili
	12	fumimbili
		12
	fumimbili	

Ndi nomboro ifhio i re ṱhukhu kha 12 nga thihi?

_____

Ndi nomboro ifhio i re khulwane kha 12 nga thihi?

_____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Deithi:

Pfesesani nomboro 13

Mvusuludzo:

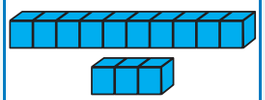
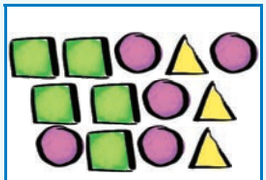
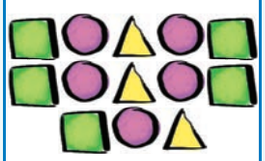
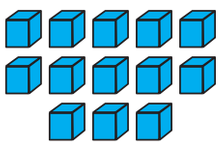
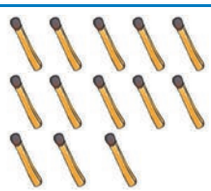
Itani ndowendowe ya u ṅwala nomboro.

 ṱhanu — 5 5

 rathi — 6 6



Livhanyani zwifanyiso.

	
	13
10 3	
13	
	10 3



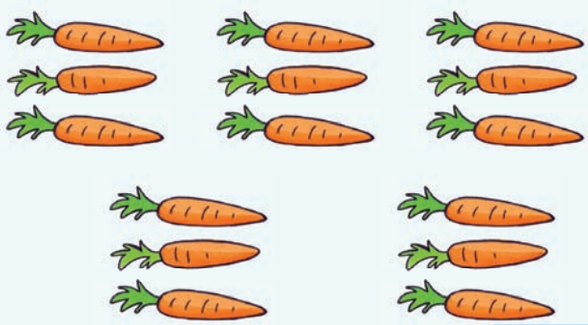
Tangedzelani zwithu.

Tangedzelani zwimange zwa 10 fhedzi.

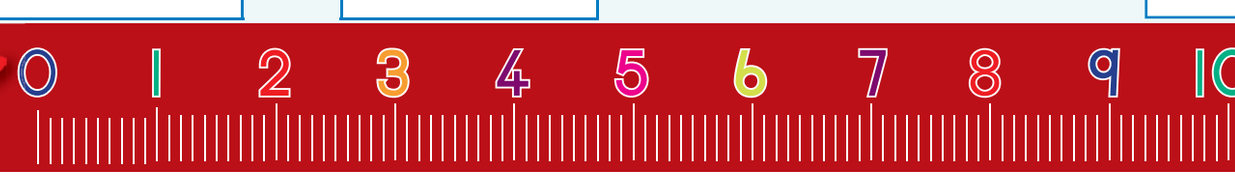


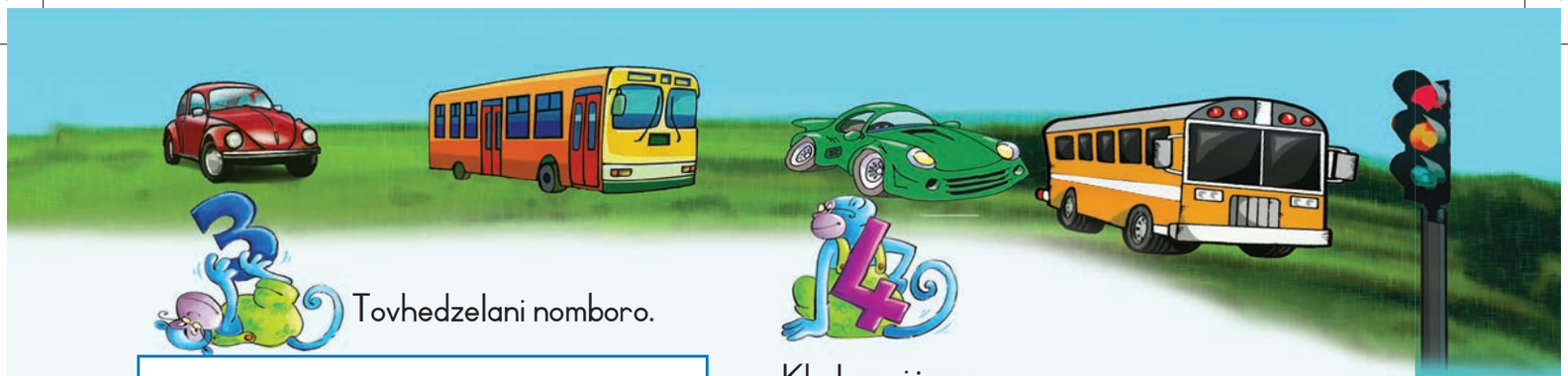
Ho sala zwimange zwingana? ☐

Tangedzelani kherotsi dza 13 fhedzi.



Ho sala kherotsi nngana? ☐





Tovhedzelani nomboro.

13	13	13	13
fumiraru			
13	13	13	13

Kholomo iṅwe na iṅwe i tea u vha na ṱhanganyelo ya 13. Ṅwalani nomboro dzi no khou ṱahela.

1	2	6
1		
	3	2
13	13	13

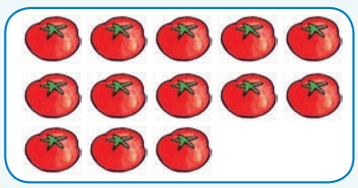
Olani zwithu zwa 13.

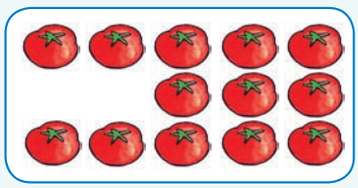
Zwino zwi oleni nga ndila iṅwevho.

Ṅwalani nomboro dzi no khou ṱahela.

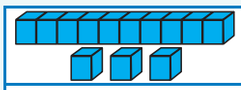
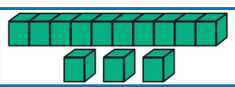
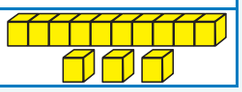
	10		12	

Vhalani zwithu.





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

		fumiraru
	13	fumiraru
13		
	fumiraru	

Ndi nomboro ifhio i re ṱhukhu kha 13 nga thihi?

_____

Ndi nomboro ifhio i re khulwane kha 13 nga thihi?

_____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

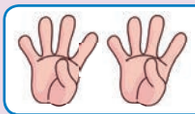
Deithi:

Pfesesani nomboro 14

Mvusuludzo:

Itani nḓowenḓowe ya u ṅwala nomboro.


sumbe 7 7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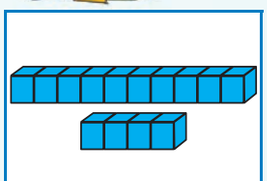
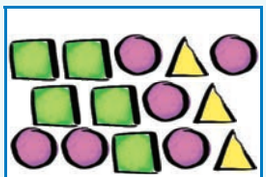
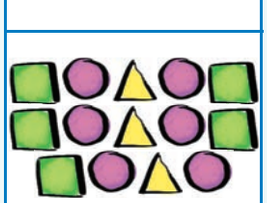
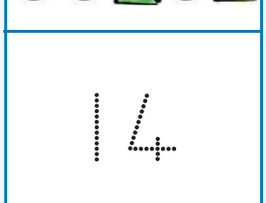
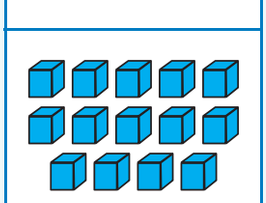
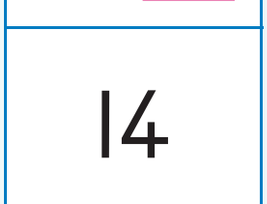
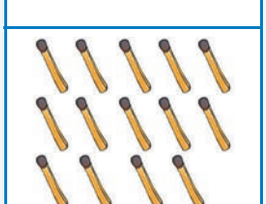
Livhanyani zwifanyiso.




14
10 4




10 4



Tangedzelani zwithu.

Tangedzelani zwisusu zwa 10 fhedzi.



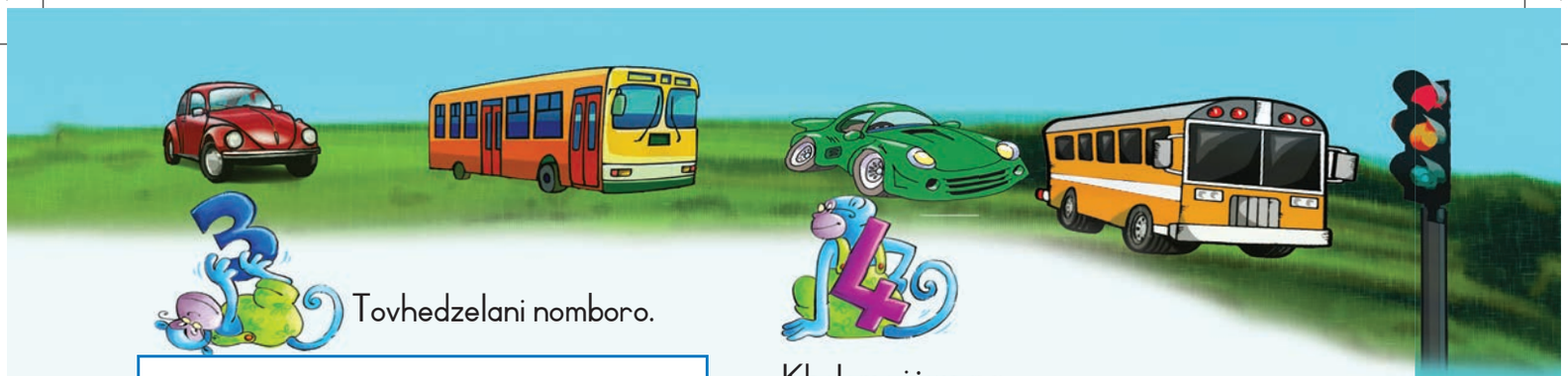
Ho sala zwisusu zwingana?

Tangedzelani rokho dza 14 fhedzi.



Ho sala rokho nngana?

0 1 2 3 4 5 6 7 8 9 10



Tovhedzelani nomboro.

14	14	14	14
fumiiṋa			
14	14	14	14

Kholomo iṅwe na iṅwe i tea u vha na ṱhanganyelo ya 14. Ṅwalani nomboro dzi no khou ṱahela.

1		2
	5	1
3	2	
14	14	14

Olani zwithu zwa 14.

Zwino zwi oleni nga ndila iṅwevho.

Ṅwalani nomboro dzi no khou ṱahela.

3 5 7

Vhalani zwithu.

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

	14	fumiiṋa
14		
	fumiiṋa	

Ndi nomboro ifhio i re ṱhukhu kha 14 nga thihi?

_____

Ndi nomboro ifhio i re khulwane kha 14 nga thihi?

_____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

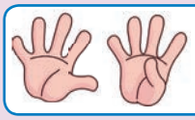
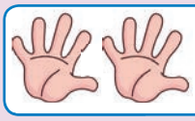
69

Deithi:

Pfesesani nomboro 15

Mvusuludzo:

Itani ndowendowe ya u ṅwala nomboro.

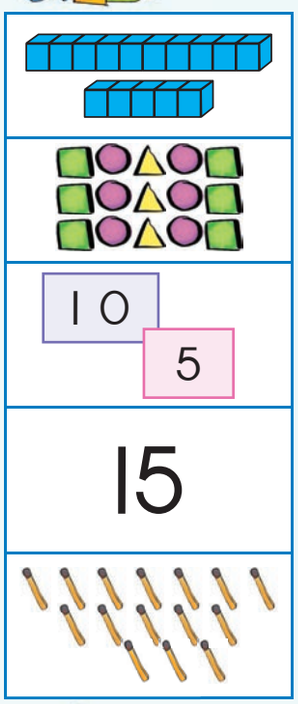
 ṱahe	9 9
 fumi	10 10

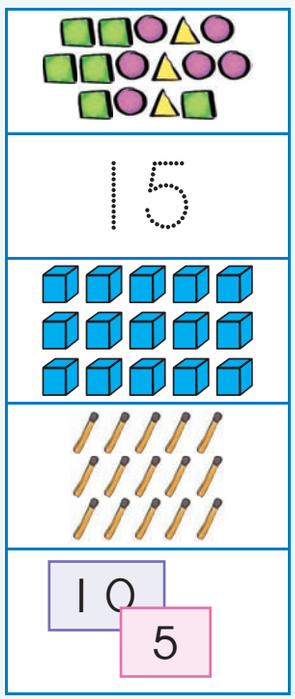


Livhanyani zwifanyiso.

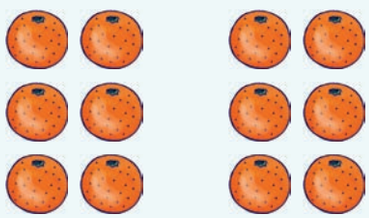


Tangedzelani zwithu.





Tangedzelani maswiri a 10 fhedzi.



Ho sala maswiri mangana?

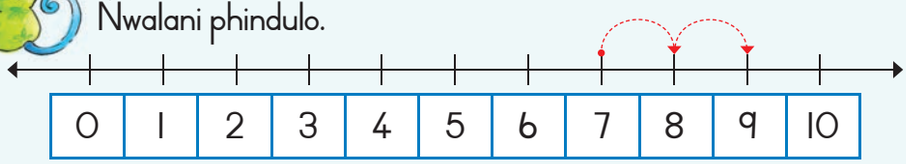
Tangedzelani ṋaledzi dza 15 fhedzi.



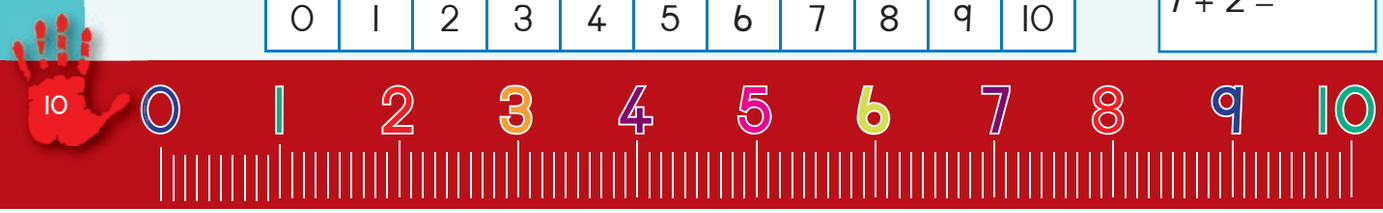
Ho sala ṋaledzi nngana?

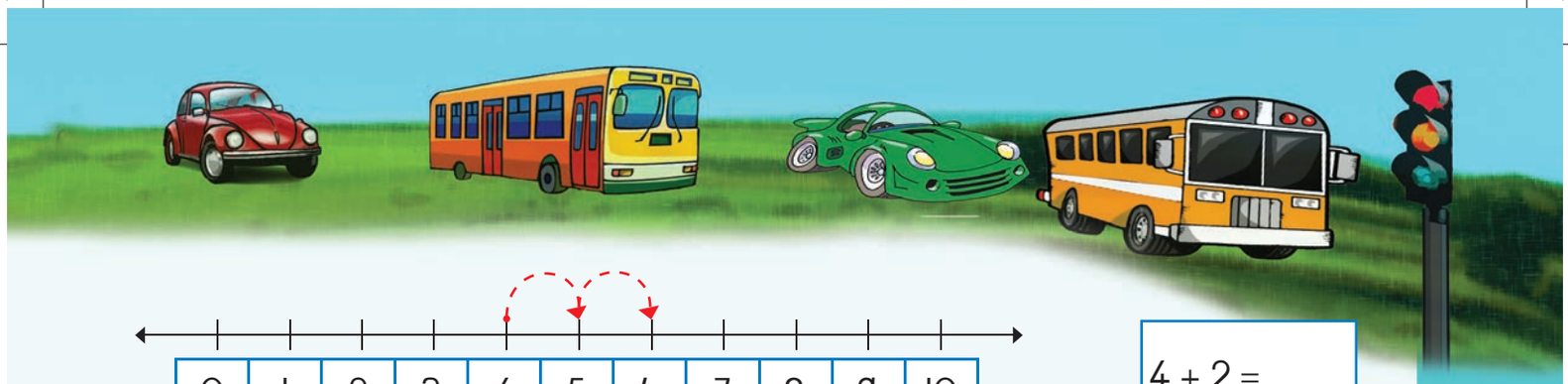


Ṅwalani phindulo.



7 + 2 =





0	1	2	3	4	5	6	7	8	9	10

4 + 2 =



Tovhedzelani nomboro.

15	15	15	15
fumiṱanu			
15	15	15	15



Olani zwithu zwa 15.

Zwino i oleni nga ndila iṅwevho.



Ṅwalani nomboro dzi no khou ṱahela.



11	12	13		15

15		13	12	

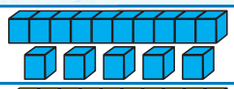
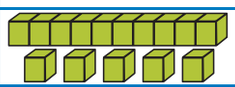
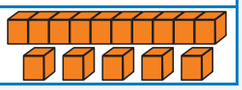
Vhalani zwithu.







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

	15	fumiṱanu
		
		fumiṱanu
15		



Ndi nomboro ifhio i re ṱhukhu kha 15 nga thihi?

_____

Ndi nomboro ifhio i re khulwane kha 15 nga thihi?

_____



11 12 13 14 15 16 17 18 19 20

70

Deithi:

Muṭanganyo u swika kha 20 – U isa phanḓa

Themo ya 3

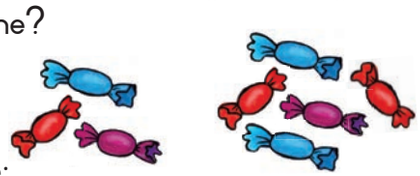
Mvusuludzo:

Itani nḓowenḓowe ya u ṅwala dzinambalo.

6	rathi

1 Lavhelesani zwifanyiso ni ṅwale fhungombalo ḷa tshifanyiso tshiṅwe na tshiṅwe.

Lisa u na maḷegere a 3. Mandla u na maḷegere a 5. Vha na maḷegere mangana o ṭangana oṭhe?

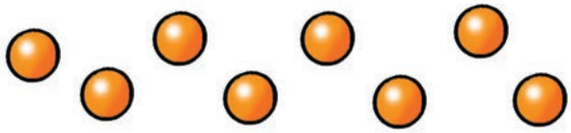


Kha ri vhale:

3 ... 4 5 6 7 8

☐ + ☐ = ☐

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

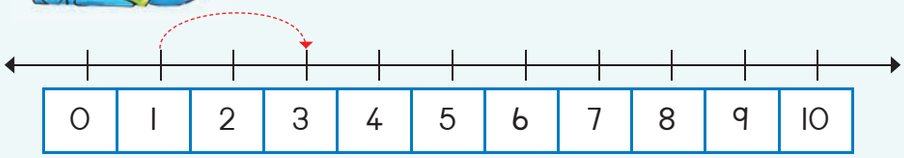


Kha ri vhale ri tshi ya murahu:

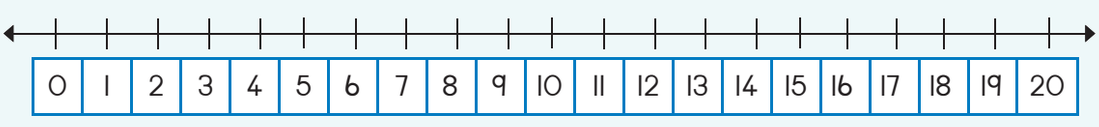
8 ... 7 6 5 4

☐ – ☐ = ☐

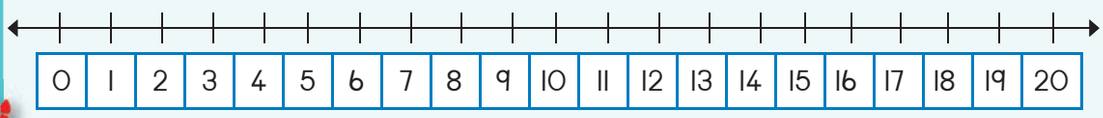
2 Ṅwalani phindulo.



1 + 2 = ☐



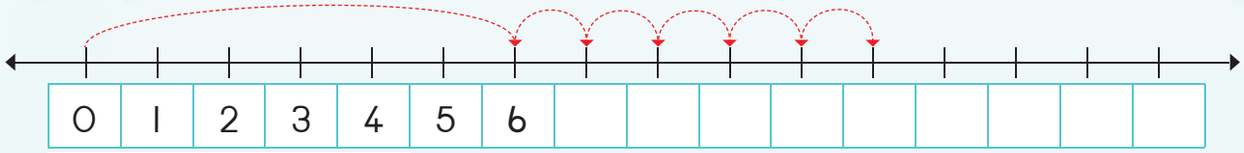
13 + 2 = ☐

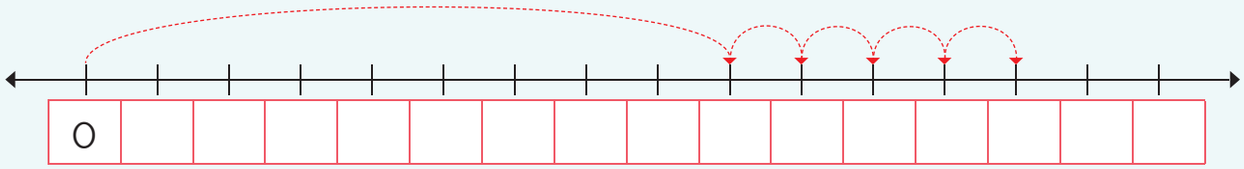


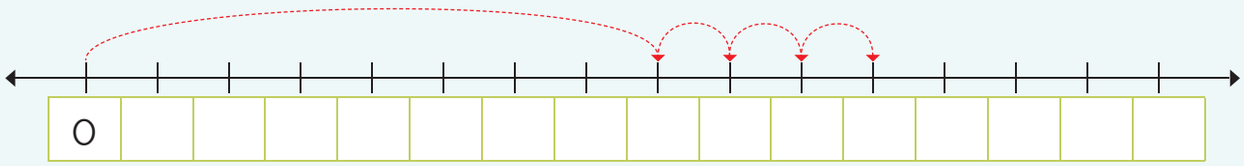
15 + 2 = ☐



Ṅwalani nomboro kha mutalombalo ni kone u ṅwala fhungombalo ḽa nomboro iṅwe na iṅwe.









Vhalelani nga 2.

3	5
4	
2	



7	
8	
6	



Ṅwalani nomboro.

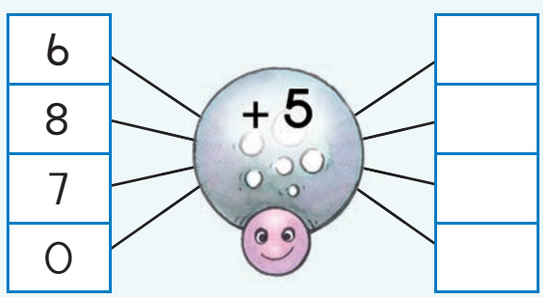


Thusani buvhi u fhedzisa mbalo.

Ndi na miṅwaha ya 7. Ndi ḓo vha ndi na miṅwaha mingana nga murahu ha miṅwaha ya 5?

7					

Ndi ḓo vha ndi miṅwaha ya _____.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

71

Deithi:

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

Mvusuludzo:

Itani ndowendowe ya u ṅwala dzinambalo.

7 sumbe

Ṅwalani phindulo.

3 + 3 = □



0 + 5 = □



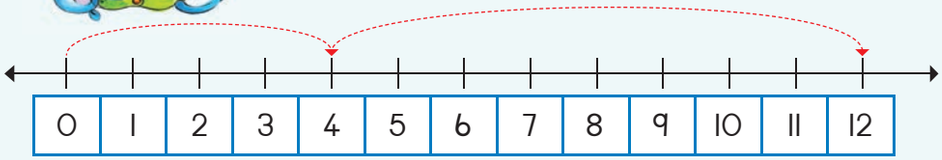
3 + 2 + 1 = □



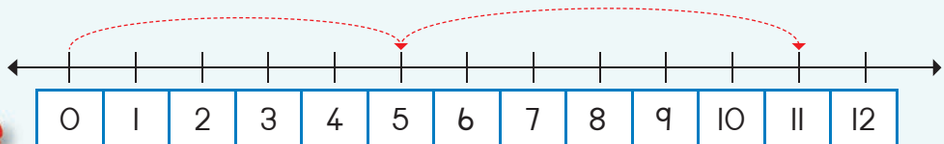
Khalarani ni tshi sumbedza zwi tevhelaho.

3 + 9	●●●●●●●●●●●●
4 + 8	○○○○○○○○○○○○
5 + 7	○○○○○○○○○○○○
6 + 6	○○○○○○○○○○○○
7 + 5	○○○○○○○○○○○○

Ṅwalani mbalo ya:

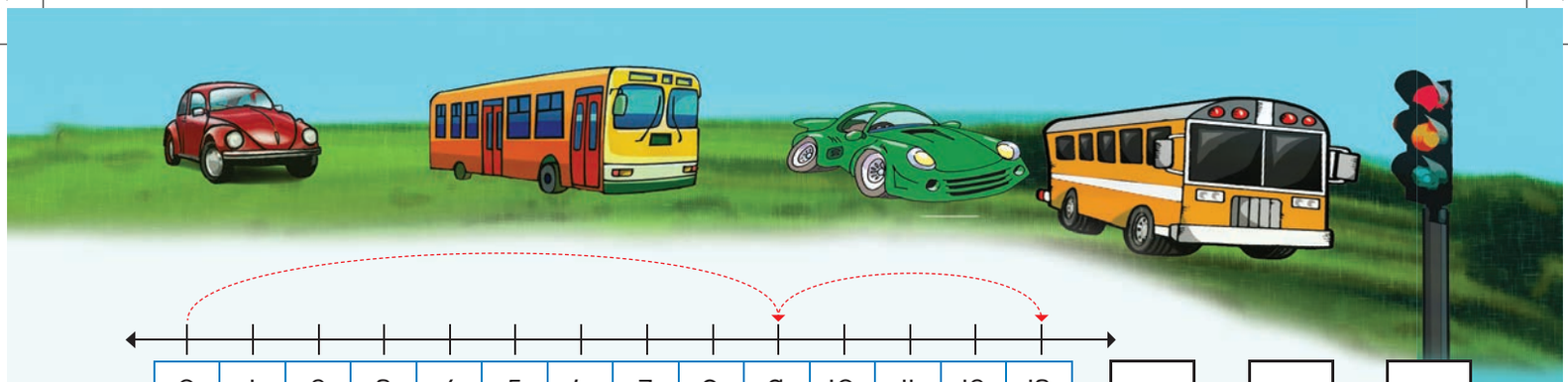


□ + □ = □



□ + □ = □

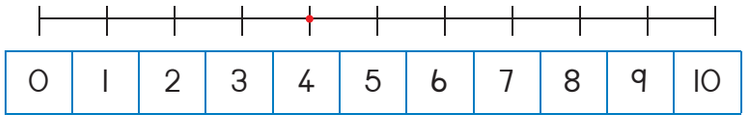
0 1 2 3 4 5 6 7 8 9 10



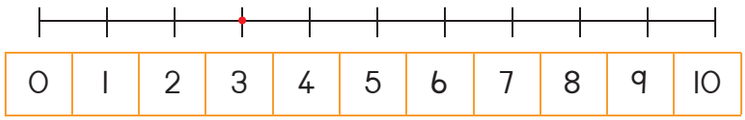
☐ + ☐ = ☐



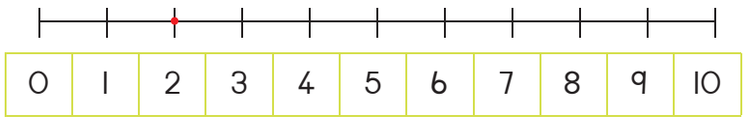
Fhedzisani mutalombalo ni ṅwale phindulo.



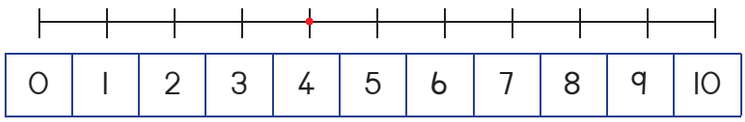
4 + 5 + 1 = ☐



3 + 3 + 2 = ☐



2 + 4 + 3 = ☐



4 + 3 + 2 = ☐



Tandululani zwi tevhelaho nga u ola zwifanyiso.

Ndi na mimavhuḽu ya 5 ngeno khonani yanga e na ya 8. Ri na mimavhuḽu mingana yo ṱangana yoṱhe?

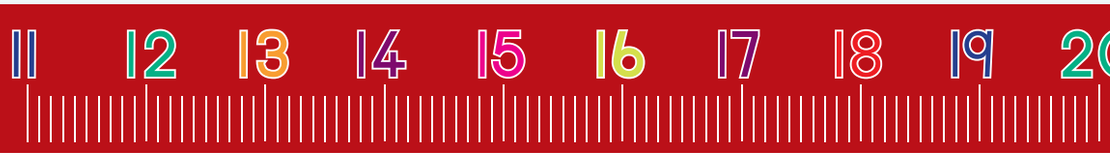
☐ + ☐ = ☐

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

☐ + ☐ = ☐







Deithi:

Muṱanganyo – u fhaṱa na u paḓukanya nomboro u swika kha 20

Mvusuludzo:

Itani nḓowenḓowe ya u ṅwala dzinambalo.

8 malo

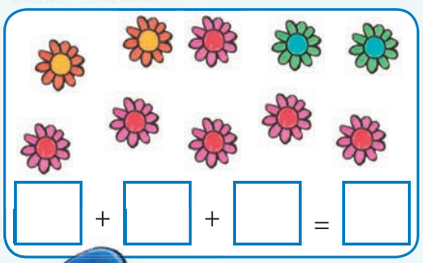


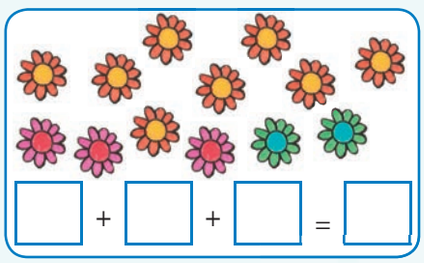
Ṅwalani phindulo.

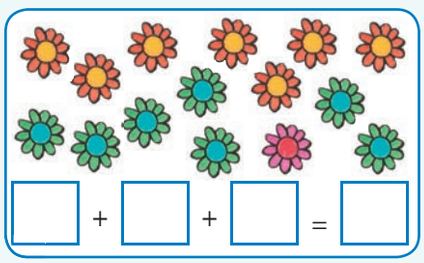
0 + 2 =		2 + 2 =		4 + 2 =		6 + 2 =		8 + 2 =	
10 + 2 =		12 + 2 =		14 + 2 =		16 + 2 =		18 + 2 =	



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







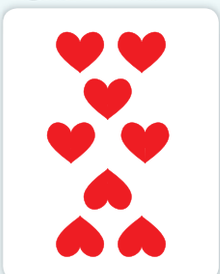


Thusani buvhi u fhedzisa mbalo.



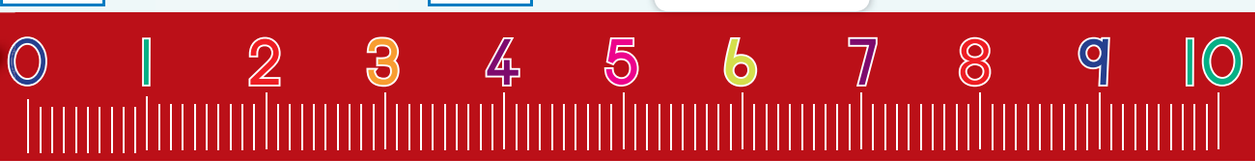


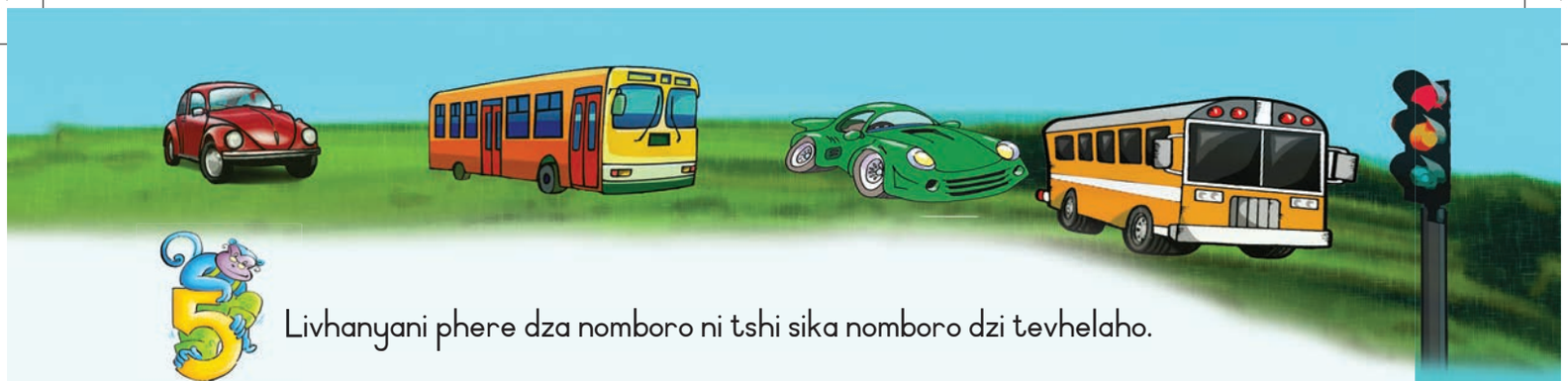
Hu na mbilu nngana?



Ṅwalani mbalo yaṋu.

+ =





Livhanyani phere dza nomboro ni tshi sika nomboro dzi tevhelaho.

13

7	5
8	4
9	6
10	2
11	3

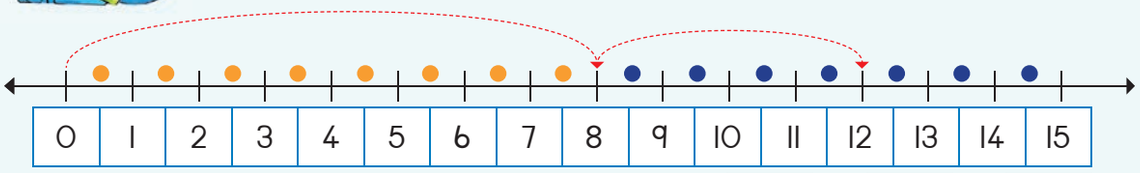
11

6	7
7	4
3	8
4	5
5	6

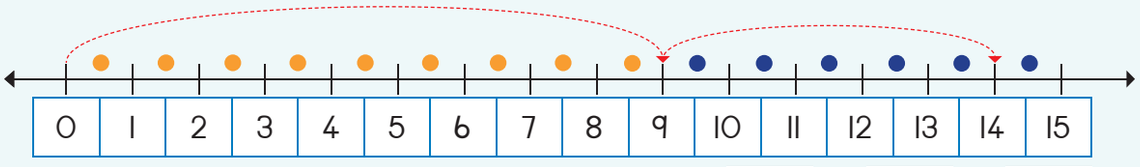
12

8	6
10	1
4	8
11	4
6	2

Ṅwalani fhungombalo ḽa:



☐ + ☐ = ☐



☐ + ☐ = ☐

Mvusuludzo:

Mvusuludzo: Khaḽarani phindulo yone.

			
mbonalo ya nga phanḓa	mbonalo ya nga phanḓa	mbonalo ya nga phanḓa	mbonalo ya nga phanḓa
mbonalo ya nga murahu	mbonalo ya nga murahu	mbonalo ya nga murahu	mbonalo ya nga murahu
mbonalo ya nga matungo	mbonalo ya nga matungo	mbonalo ya nga matungo	mbonalo ya nga matungo

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

73

Deithi:

Mutanganyo na mutuso – u fhata na u padukanya

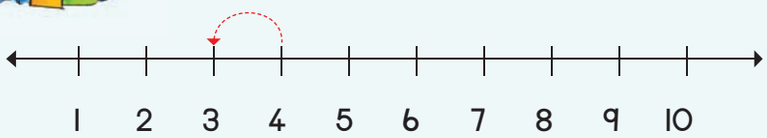
Mvusuludzo:

Itani ndowendowe ya u ṅwala dzinambalo.

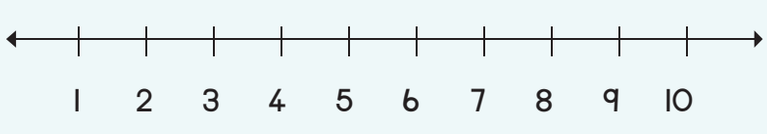
9	tahe



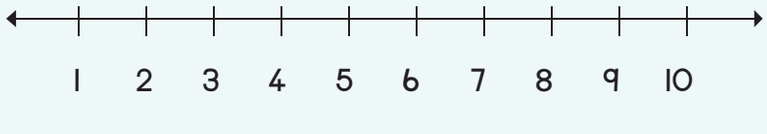
Ṅwalani phindulo.



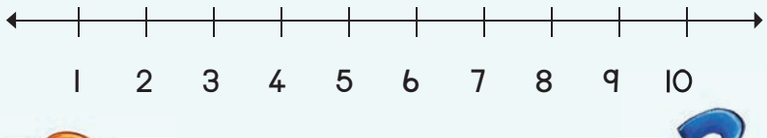
4 – 1 = ☐



5 – 3 = ☐



4 – 2 = ☐



5 – 2 = ☐

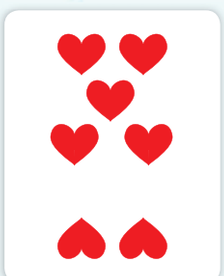


Thusani buvhi u fhedzisa mbalo.

7	–5	☐
8		☐
10		☐
5		☐



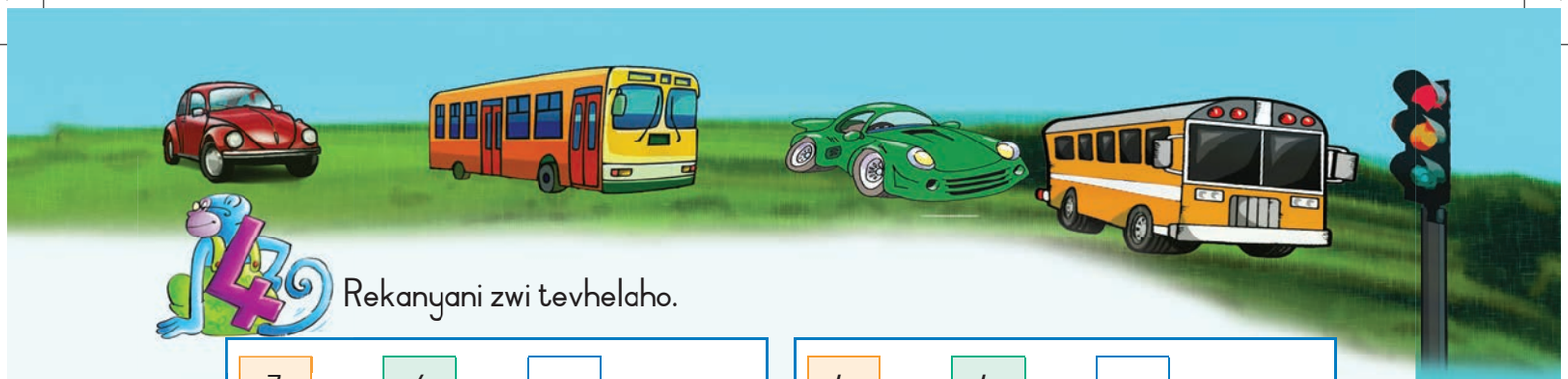
Hu na mbilu nngana?



Ṅwalani mbalo yaṋu.

☐ + ☐ = ☐





4 Rekanyani zwi tevhelaho.

7	+	4	=		6	+	6	=	
7	+	4	+	1	=		6	+		+		=	
10	+	1	=		10	+		=	
13	–	6	=		12	–	8	=	
13	–	3	+	3	=			–		+		=	
10	–	3	=		10	–	3	=	

5 Ṅwalani phindulo ni khaḽare na u ola.

8 + 6 = ☐

Ri nga kha ḓi i sumbedza sa:

(8 + 2) + 4 = ☐ → 10 + 4 = ☐

15 – 7 = ☐

Ri nga kha ḓi i sumbedza sa:

(15 – 5) – 2 = ☐ → 10 – 2 = ☐

9 + 4 = ☐

Ri nga kha ḓi i sumbedza sa:

(9 + 1) + 3 = ☐ → ☐

14 – 5 = ☐

Ri nga kha ḓi i sumbedza sa:

(–) – 1 = ☐ → 10 – 1 = ☐

Mvusuludzo:

Itani ndowendowe ya u ṅwala dzinambalo.

10 fumi

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Deithi:

Vhulapfu (vhuntha)



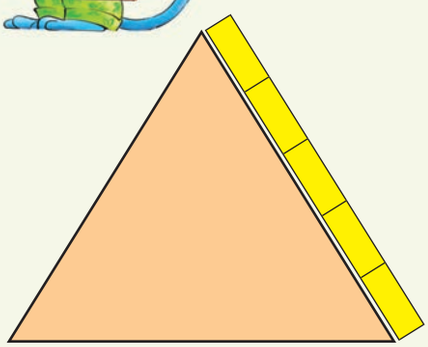
Lavhelesani tshifanyiso ni fhindule mbudziso.

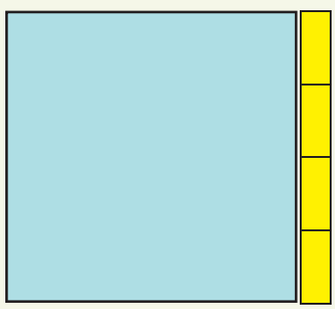
Jabu	Pam	Nomsa	Ken
			

Ndi nnyi mulapfusa?	Ndi nnyi a re mutukana mupfufhisa?
Ndi nnyi mupfufhisa?	**Ndi nnyi a re musidzana mulapfusa?**

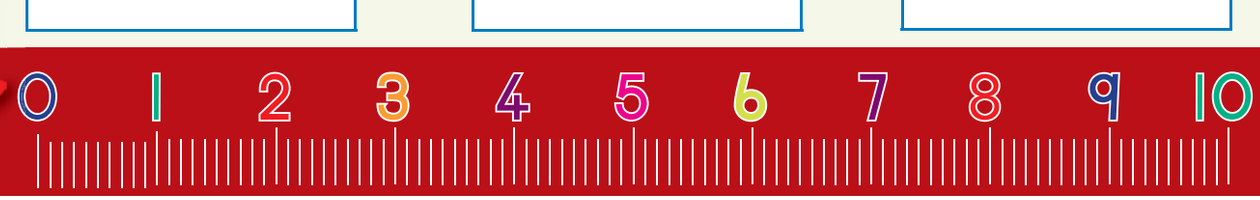


Vhurumbu ha zwivhumbeo izwi ndi vhulapfu ha zwibogisi zwingana.











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



Vhuphara ndi zwibuḽoko zwa _____.



Vhulapfu ndi zwibuḽoko zwa _____.

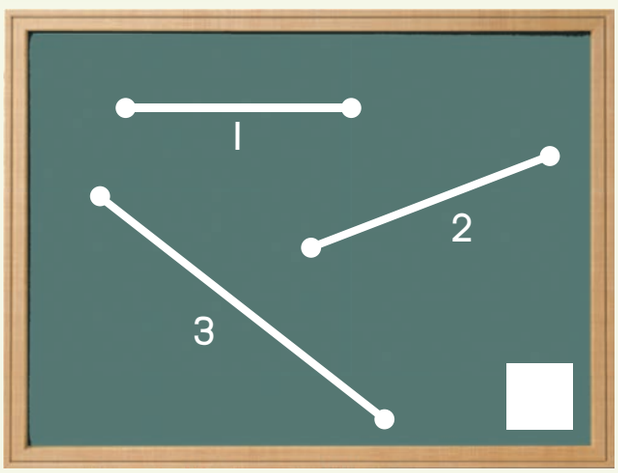


Vhuphara ndi zwibuḽoko zwa _____.

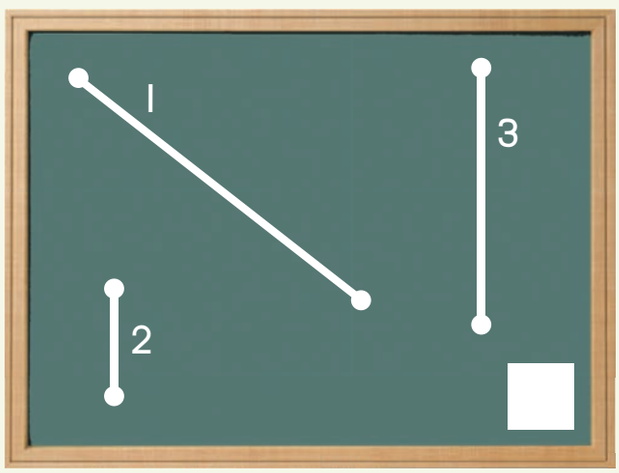
Vhulapfu ndi zwibuḽoko zwa _____.



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



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



Teacher:
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Date:

11 12 13 14 15 16 17 18 19 20

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Deithi:

Tshelede na tshintshi

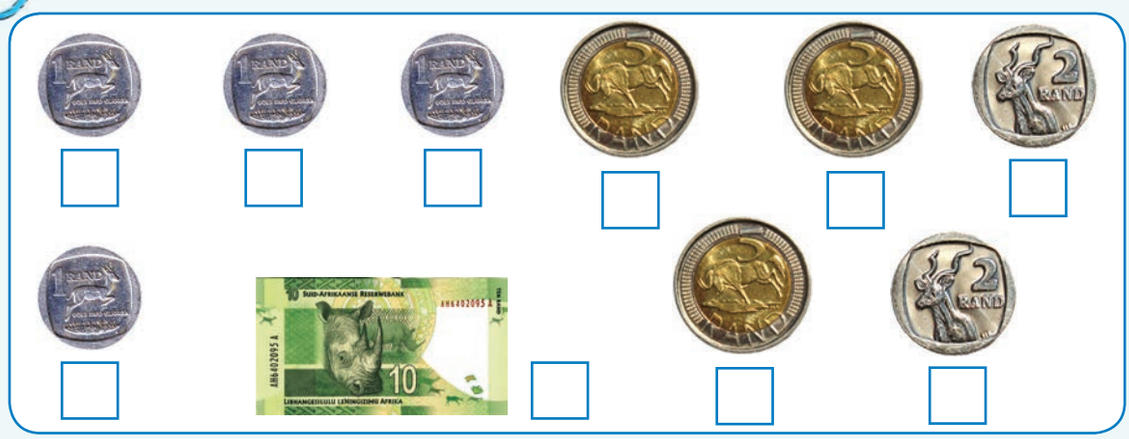
Itani thiki kha tshelede i re khulwanesa kha rou iṅwe na iṅwe.



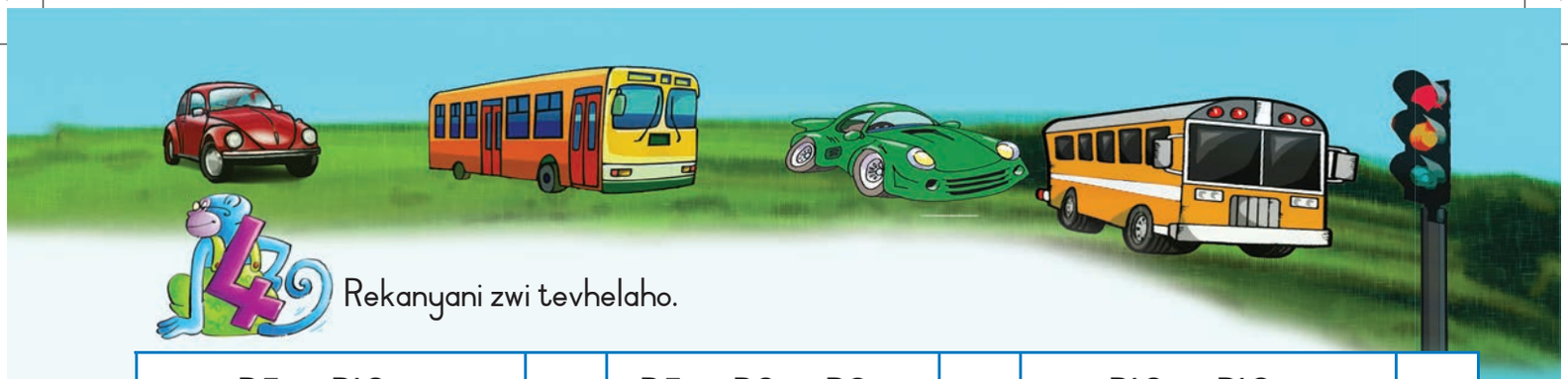
Itani thiki kha khoini dzine dza ita RIO.



Itani thiki kha khoini dzine dza ita R20.



0 1 2 3 4 5 6 7 8 9 10



Rekanyani zwi tevhelaho.

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

Tandululani zwi tevhelaho:

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

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

Ndi na RI5:

Ndi badela nga Tshintshi

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

Rekanyani zwi tevhelaho.

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

Fhungudzani nga R2.

RII		R4	
RI2		R6	
RIO		R8	

Teacher:
Sign:
Date:

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Deithi:

Tshelede na tshintshi

1 Olani dzikhoini ni ite:

RII	
RI2	
RI3	
RI4	

2 Itani thiki kha phindulo yone.

RI8 – R8 =	RIO





RI2 – R2 =	





RI5 – R4 =	





RI4 – R7 =	





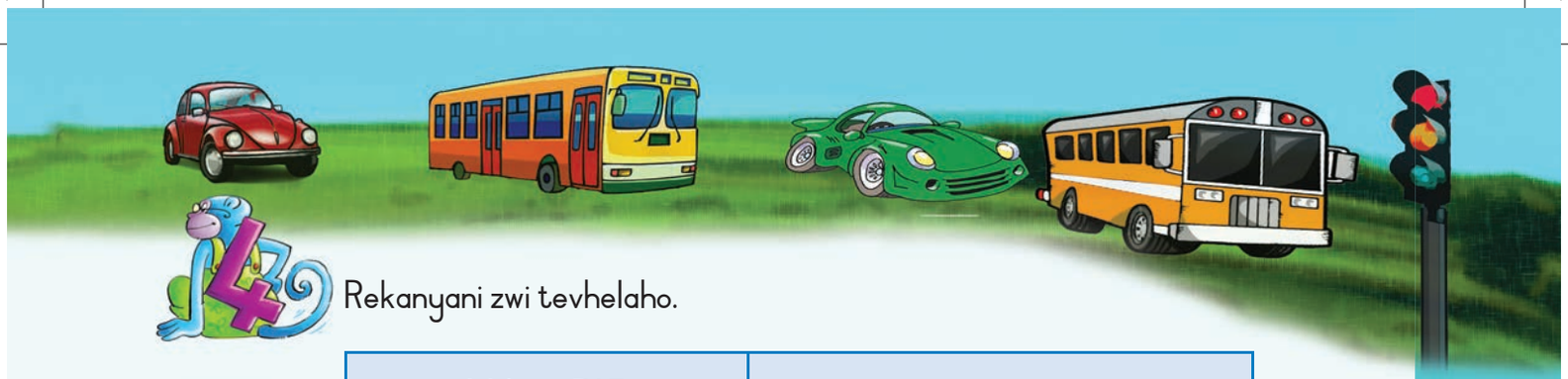
3 Rekanyani zwi tevhelaho.

RI5 – RIO =	
RIO – RI – RI – R2 =	

R20 – R2 – R8 =	
R5 – R4 =	

R20 – R5 =	
RIO – RI – R5 – R2 =	





4 Rekanyani zwi tevhelaho.

Ndi na RI5 Nda renga nga:	Ndo salelwa nga vhugai?
R2 na R4 =	R9
R8 na R4 =	
RI2 na R2 =	
R5 na R5 =	
R8 na R7 =	
RIO na R2 =	
R8 na R2 =	
R6 na R2 =	
R4 na R2 =	
R2 na R2 =	
R9 na R6 =	
RIO na R2 =	

5 Ndi na RI5. Ndi renga phakhethe ya malegere nga RII.
Ndo salelwa nga vhugai?



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Date:

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Deithi:

Tshelede: Muṱanganyo na muṱuso



Rekanyani zwi tevhelaho.

RIO + R2 =		RIO + R5 =		RIO + RI =	
RIO + R4 =		RIO + R7 =		RIO + R6 =	
R9 + R5 =		R8 + R4 =		R7 + R6 =	
RI2 + R5 =		RI4 + R2 =		RII + R6 =	



Rekanyani zwi tevhelaho.

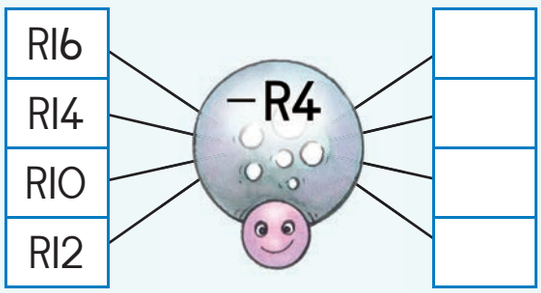
RIO − R7 =		RIO − R2 =		RIO − R5 =	
RI5 − RI =		RI5 − RI5 =		RI5 − R2 =	
RI2 − R2 =		RI4 − R7 =		RI6 − R6 =	
RI5 − R6 =		RI2 − R9 =		RI4 − R4 =	

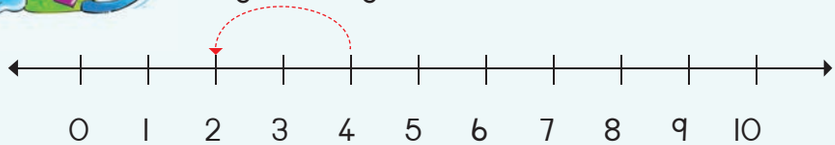


Thusani buvhi u fhedzisa mbalo dzoṱhe.

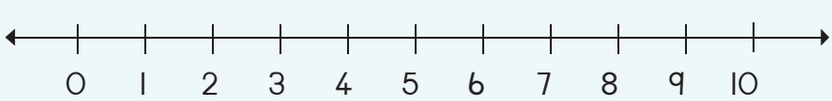


Fhungudzani nga R2.





R4 − R2 =

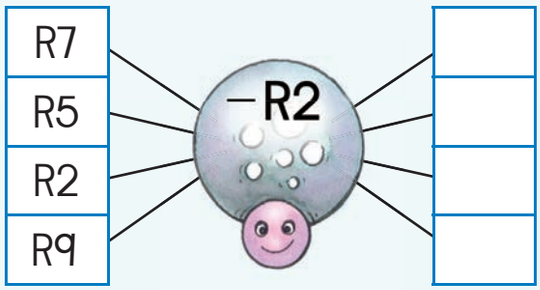


R7 − R2 =

0 1 2 3 4 5 6 7 8 9 10



Thusani buvhi u shuma mbalo dzo̱the dza mu̱tuso.





Tandululani zwi tevhelaho.

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

Ni na R19. Na renga ḽegere ḽa R8. No salelwa nga vhugai?



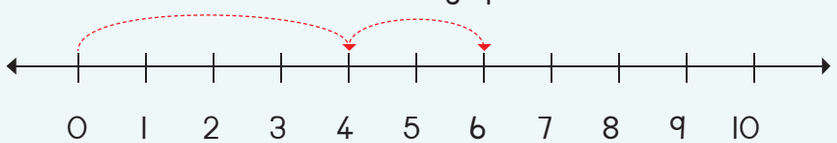
Ndo vhulunga vhugai?





Sumbedzani mbalo kha mutalombalo ni rekanye phindulo.

R4 + R2 =



R8 + R2 =



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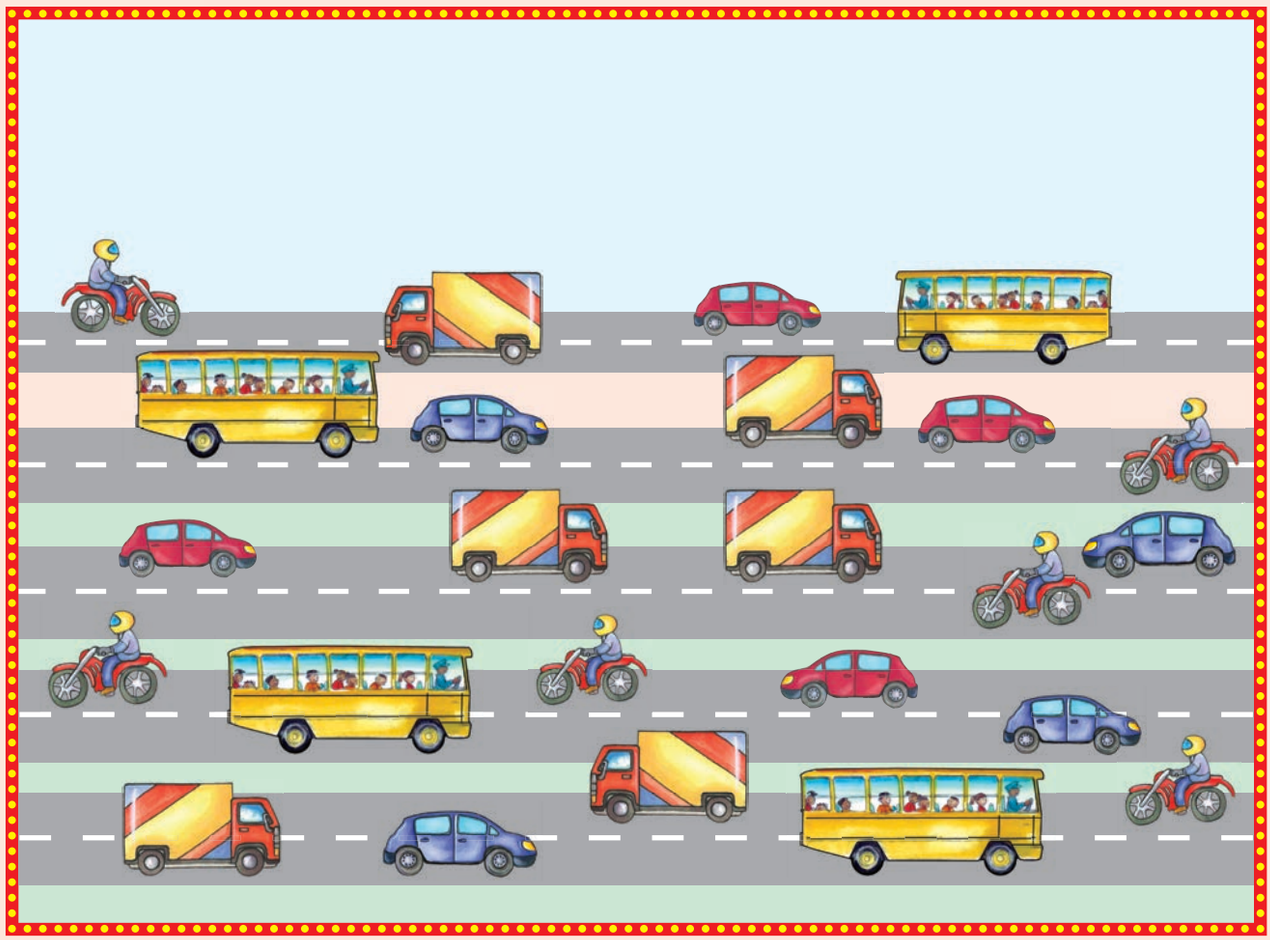
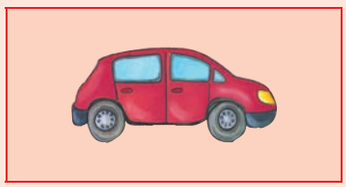
11 12 13 14 15 16 17 18 19 20

Deithi:

Data

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











0 1 2 3 4 5 6 7 8 9 10



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



5						
4						
3						
2						
1						
	▲	●	■	♥	★	⬮

Zwivhumbeo zwa _____ ndi zwone zwinzhi.

Zwivhumbeo zwa _____ ndi zwone zwiṱuku.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Deithi:

Data na tshifhinga

Themo ya 3

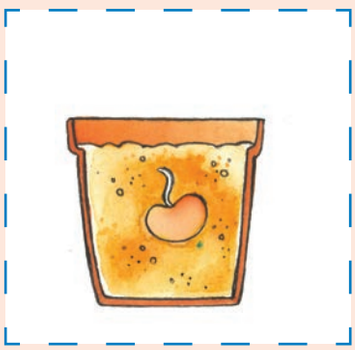
Ambani nga zwifanyiso izwi ni kone u zwi vhekanya nga thevhekano yone.



1 ↓



2 ↓



3 ↓

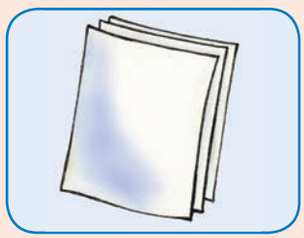


4

0 1 2 3 4 5 6 7 8 9 10



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



Teacher:
Sign:
Date:

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Deithi:

Zwigwada zwa zwiṱanuzwiṱanu u swika kha 15

Mvusuludzo:

Itani nḓowenḓowe ya u ṅwala dzinambalo.

5 ṱhanu

Lavhelesani tshifanyiso ni kone u fhindula mbudziso.



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

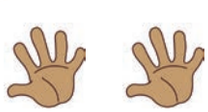
Lavhelesani tshifanyiso.
Ri nga i ṅwala nga hei nḓila.

Olani zwaṋu hafha.



Tshigwada tshithihi tsha dza 5 ndi 5

Vhalani minwe yaṋu ni ṅwale phindulo.



5 + 5 =



5 + 5 + 5 =



5 + 5 + 5 + 5 =

zwigwada zwa 2 zwa ṱhanu ndi 10

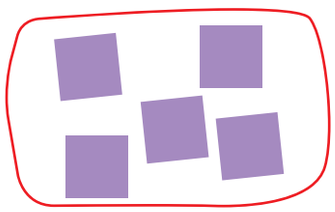
0 1 2 3 4 5 6 7 8 9 10

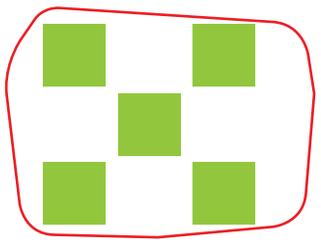


Olani zwitendeledzi u mona na zwi tevhelaho ni vhumbe:

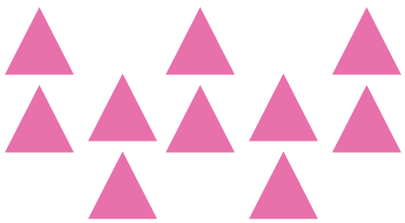
Nwalani mafhungombalo a zwi tevhelaho:

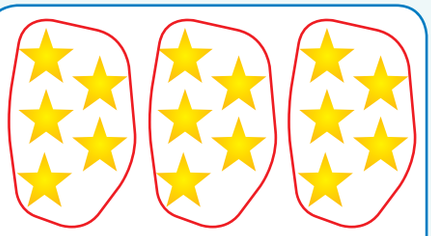
tshigwada tsha I tsha zwa 5



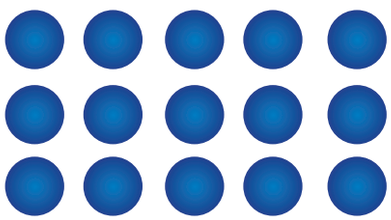


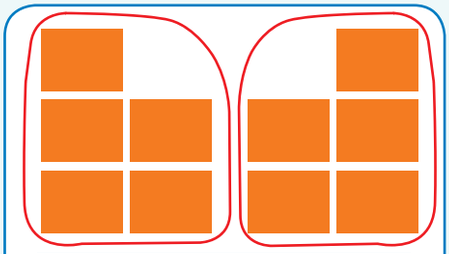
zwigwada zwa 2 zwa dza 5





zwigwada zwa 3 zwa zwa 5





Ni nga ita zwigwada zwingana zwa zwiṱanuzwiṱanu nga?

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

Teacher:
Sign:
Date:

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Deithi:

Ṱhanu: ndovhololo ya muṱanganyo u swika kha 15

Mvusuludzo:

Mvusuludzo: Ṅwalani nomboro dzi no khou ṱahela.





Hu na zwikunwe kana minwe mingana? Ṅwalani fhungombalo ḽa hone.







Olani:

Tshigwada tsha miomva miṱanu	Zwigwada zwivhili zwa maluvha maṱanu kha tshithihi



Olani zwivhumbeo zwa zwi tevhelaho.

5 + 5 = 10

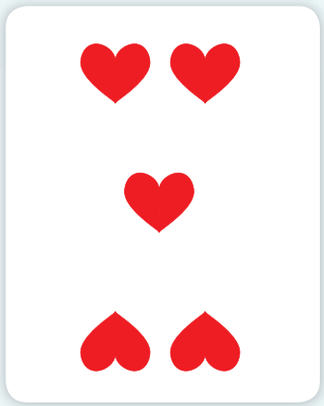
5 + 5 + 5 =

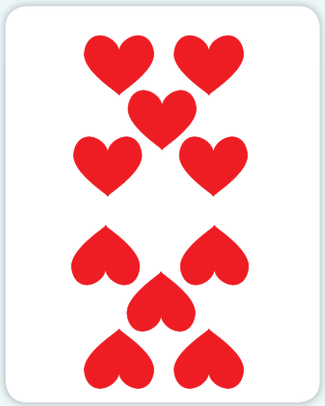


0 1 2 3 4 5 6 7 8 9 10

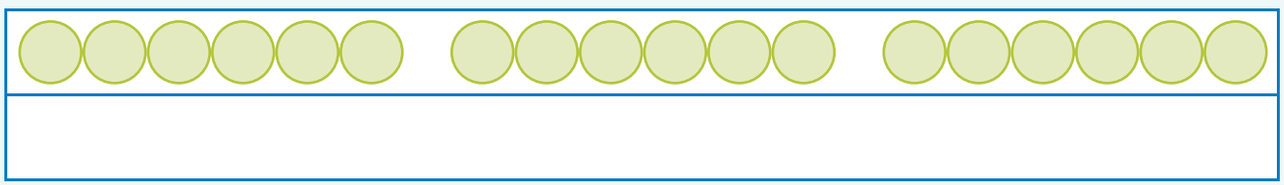


Tangedzelani ni vhale uri hu na zwigwada zwingana zwa mbilu ṱhanu zwine na nga ita kha garaṱa ḽiṅwe na ḽiṅwe.





Ṅwalani fhungo mbalo ḽa:



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

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

Ni nga kona u ita zwigwada zwingana zwa zwiṱanuzwiṱanu?

1	na	14	dzi ḓo ita	zwigwada zwa	
13	na	2	dzi ḓo ita	zwigwada zwa	
8	na	2	dzi ḓo ita	zwigwada zwa	
7	na	8	dzi ḓo ita	zwigwada zwa	
9	na	2	dzi ḓo ita	zwigwada zwa	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



Deithi:

Zwiṱanuzwiṱanu u swika kha 15

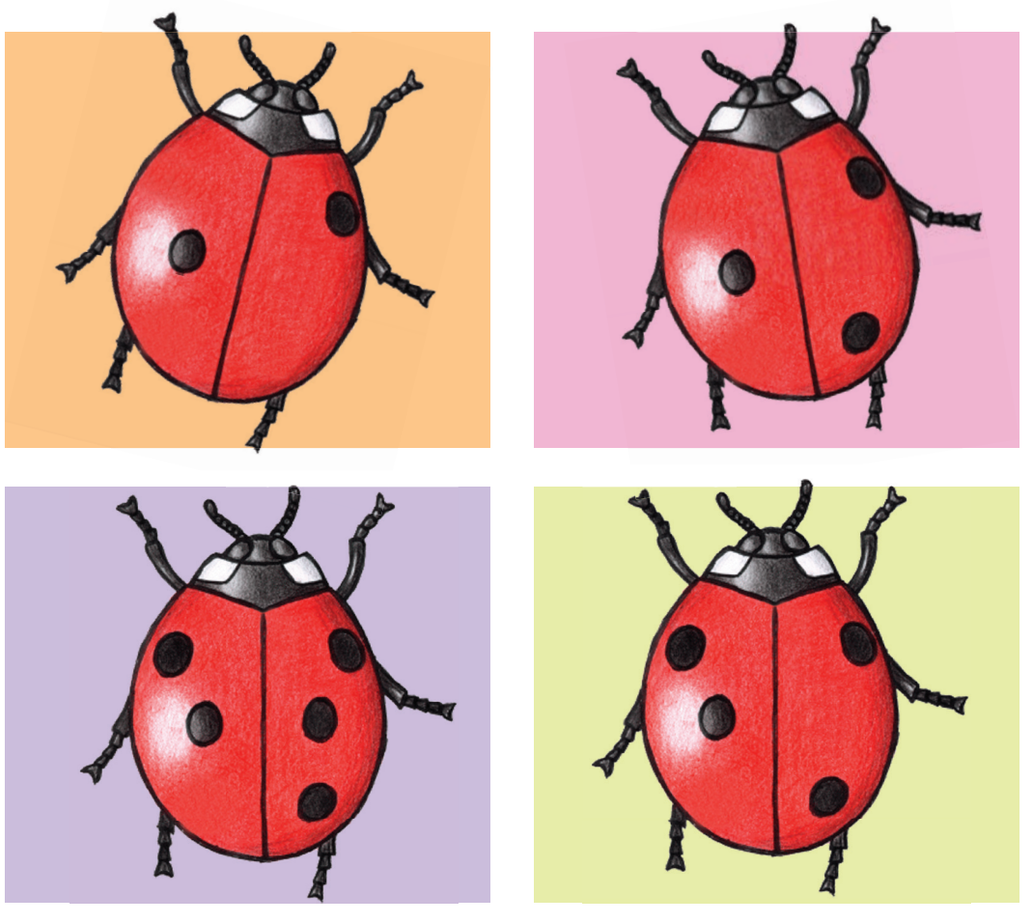


Ṅwalani nomboro dzi no khou ṱahela.

1		3		5		7	8	9	
11	12								



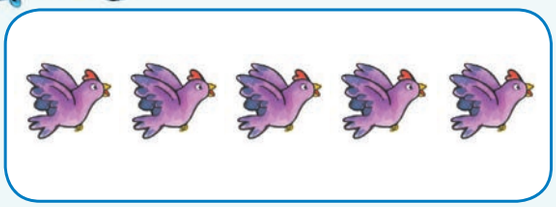
Itani zwigwada zwa zwiṱanuzwiṱanu.
Kugoṅoṅozwithoma ku tea u vha na tshigwada tsha zwithoma zwiṱanu.
Olani zwithoma zwi no khou ṱahela.

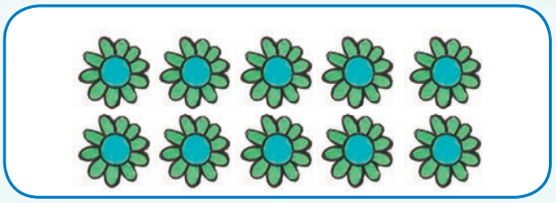


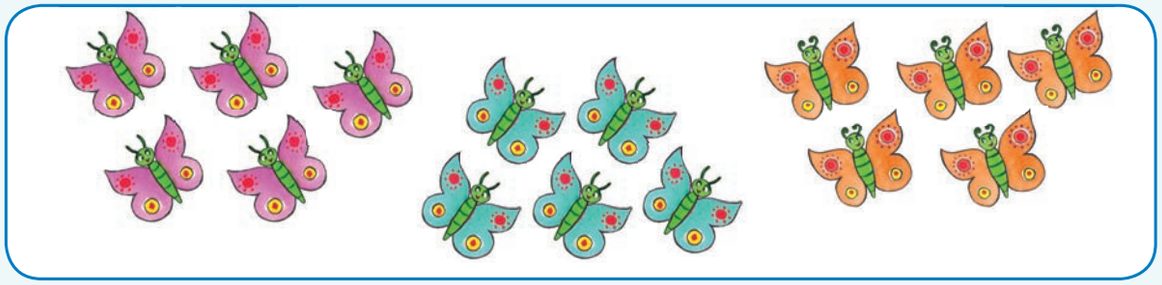
0 1 2 3 4 5 6 7 8 9 10



3 Nwalani mafhungombalo a izwi.







4 Rekanyani zwi tevhelaho.

0 + 5 = ☐

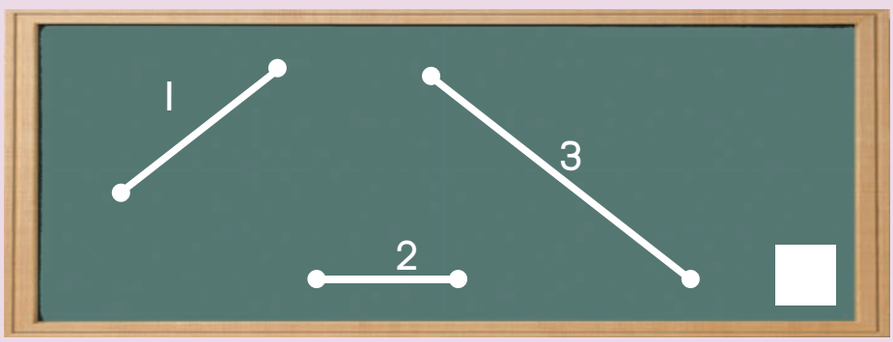
5 + 5 = ☐

5 + 5 + 5 = ☐

5 + 5 + 5 + 5 = ☐

Mvusuludzo:

Mvusuludzo: Ndi mutaladzi ufhio u re mulapfusa?



Teacher:
Sign:
Date:



83

Deithi:

Phetheni dza nomboro ṱhanuṱhanu u swika kha 50

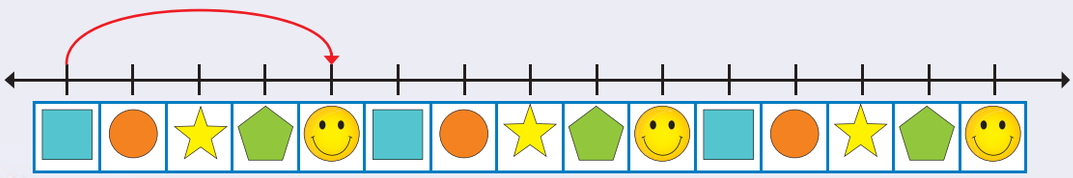


Fhedzisani phetheni ya ṱhanu nga u khaḽara nomboro.

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

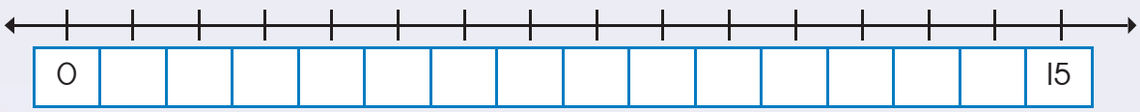


Olani dzihupu ni tshi sumbedza zwigwada zwa zwiṱanu.





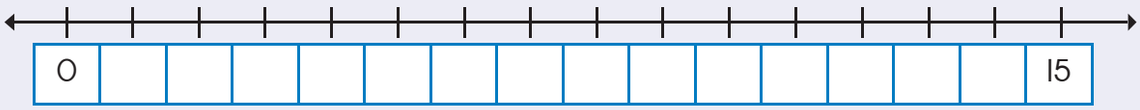
Dzhenisani nomboro dzi no khou ṱahela ni ole dzihupu ni tshi sumbedza zwigwada zwa ṱhanu.

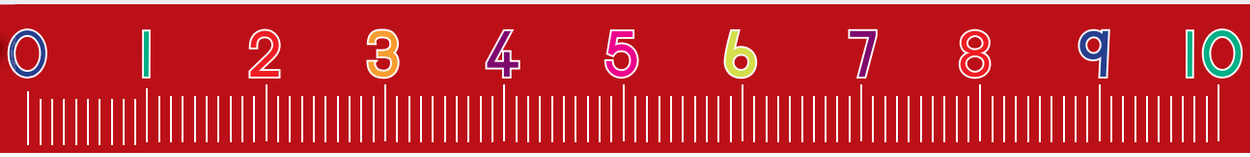




Fhedzisani mutalombalo.
Olani dzihupu ni tshi sumbedza zwigwada zwa ṱhanu.

Hu na zwigwada zwa ____ zwa ṱhanu.







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

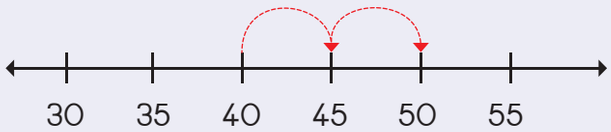
	31	32	33	34		36	37	38	39	

	41	42	43	44		46	47	48	49	

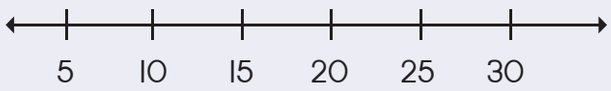


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

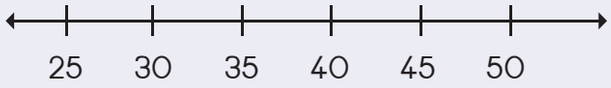
40, 45, 50



10, 15, 20



25, 30, 35



Teacher:
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Date:



Deithi:

Phetheni dza nomboro dza ṱhanu u swika kha 80



Ndi zwigwada zwingana zwa zwiṱanuzwiṱanu zwine na kona u zwi vhona tshifanyisoni itshi?





Fhedzisani zwifanyiso izwi ni tshi sumbedza zwigwada zwivhili zwa zwiṱanu tshibuḽokoni tshiṅwe na tshiṅwe.







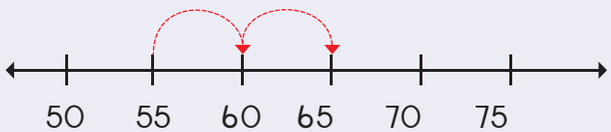
Gerani nomboro dzi no khou ṱahela kha Tshigeriwa 2 ni dzi vhee kha mitalombalo.

	61	62	63	64		66	67	68	69	

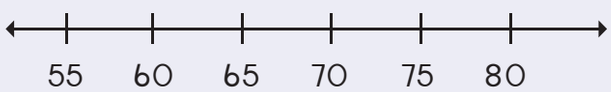
	71	72	73	74		76	77	78	79	

Olani dzihupu ni tshi sumbedza zwi tevhelaho:

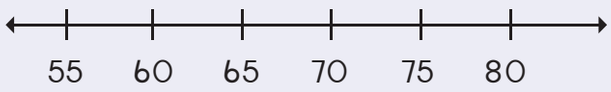
55, 60, 65



65, 70, 75



70, 75, 80



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Date:



Deithi:

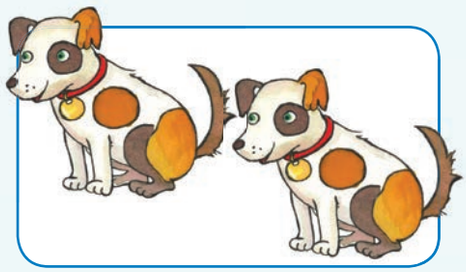
Nyingakavhili



Ingani kavhili zwithu ni ṅwale phindulo.

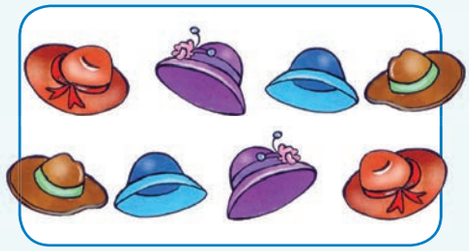


I yo ingwa kavhili ndi ☐





4 yo ingwa kavhili ndi ☐





5 yo ingwa kavhili ndi ☐





Vhalani zwivhumbeo zwi re kha besu ḽiṅwe na ḽiṅwe ḽa tshisusu.
Fhedzisani mafhungombalo a nyingakavhili.



7 + 7 =
kana
7 yo ingwa kavhili =

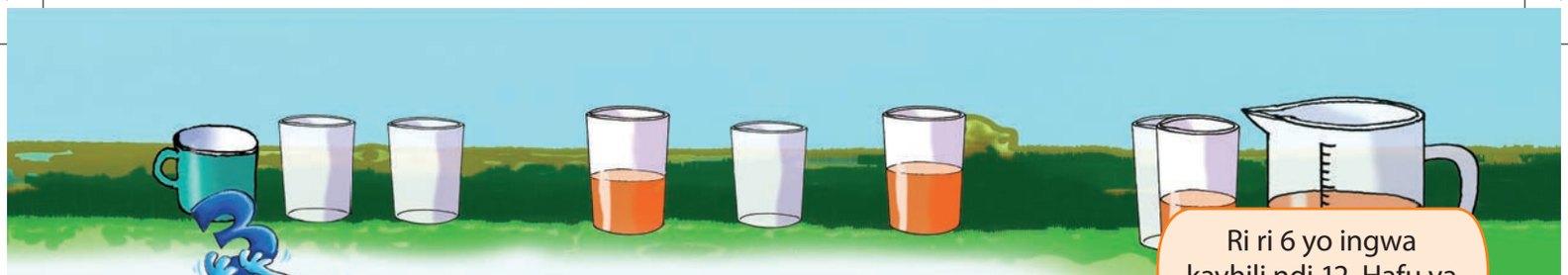


5 + 5 =
kana
5 yo ingwa kavhili =

2 + 2 =
kana
2 yo ingwa kavhili =

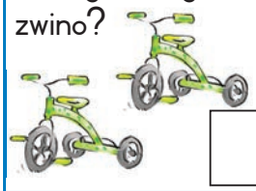
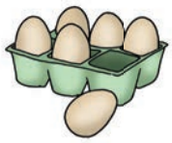
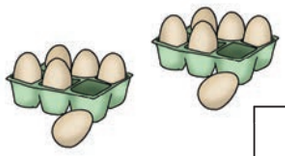






Ri ri 6 yo ingwa kavhili ndi 12. Hafu ya 12 ndi mini? _____

Fhedzisani zwi tevhelaho:

Ni kona u vhona malinga mangana?	Ni kona u vhona malinga mangana zwino?	Hu na makumba mangana kha khathuni?	Hu na makumba mangana zwino?
			

Vhalani zwithoma ni zwi inge kavhili.

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

Ingani kavhili nomboro.

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

Fhedzisani zwi tevhelaho:

Hu na maḓuvha mangana kha vhege?

S	M	T	W	T	F	S

Hu na maḓuvha mangana kha vhege mbili?

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

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

Ni kona u vhona milenzhe mingana?



Ni kona u vhona milenzhe mingana zwino?



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

Fhedzisani zwi tevhelaho:

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

Teacher:
Sign:
Date:

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Deithi: _____

Hafu

Hwayani hafu ya vhana ni ṅwale phindulo.



Hafu ya 4 ndi _____



Hafu ya 6 ndi _____



Hafu ya 2 ndi _____



Hafu ya 8 ndi _____

Hwayani hafu ni ṅwale phindulo.



Hafu ya 2 ndi = ☐



Hafu ya 4 ndi = ☐



Hafu ya 6 ndi = ☐

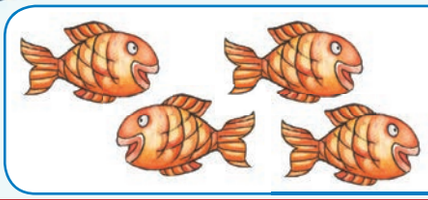


Hafu ya 2 ndi = ☐



Hafu ya 10 ndi = ☐

Hu na khovhe nngana?



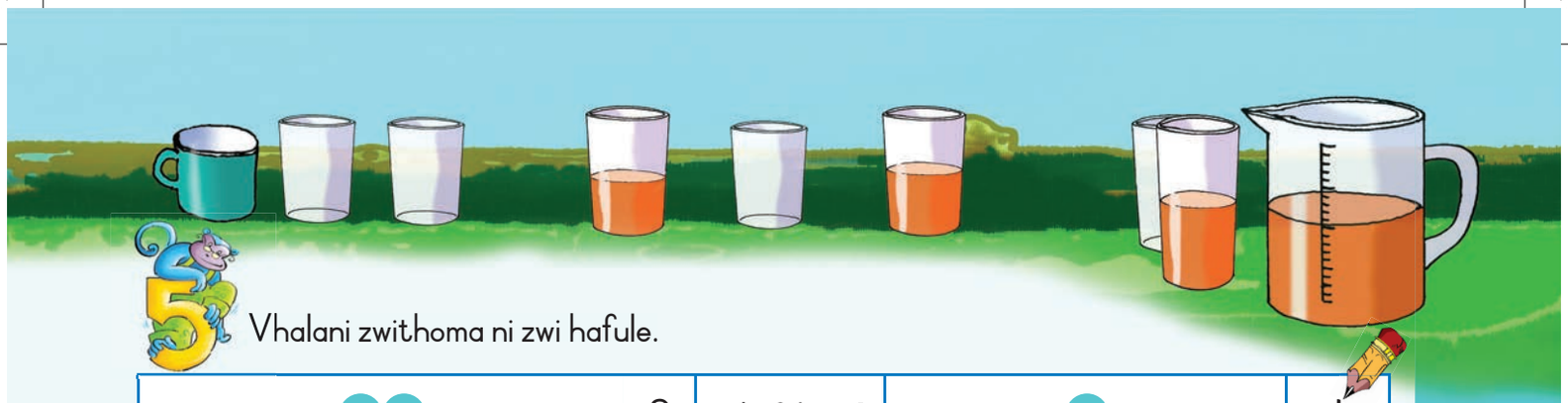
☐

Hafu ya khovhe dzo̱the ndi?



☐

0 1 2 3 4 5 6 7 8 9 10



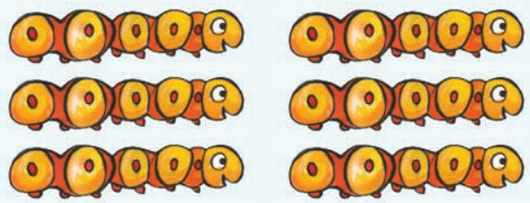
Vhalani zwithoma ni zwi hafule.

●●	2	yo hafulwa →	●	1
●●●●	4	yo hafulwa →	●●	
●●●●●●	6	yo hafulwa →	●●●	
●●●●●●●●	8	yo hafulwa →	●●●●	
●●●●●●●●●●	10	yo hafulwa →	●●●●●	

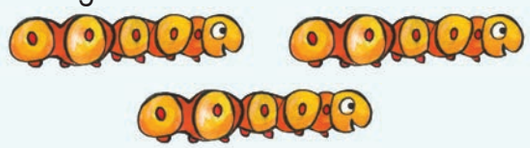
Hafulani nomboro.

4	yo hafulwa →	2
8	yo hafulwa →	
6	yo hafulwa →	
10	yo hafulwa →	
12	yo hafulwa →	
14	yo hafulwa →	

Hu na mashonzha mangana?

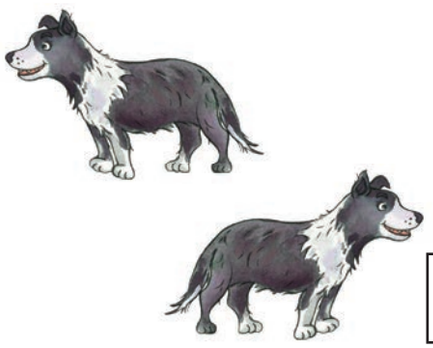


Hafu ya mashonzha ndi:



Fhindulani zwi tevhelaho:

Hu na milenzhe mingana?



Hu na milenzhe mingana zwino?



Ri ri hafu ya 8 ndi

Teacher:
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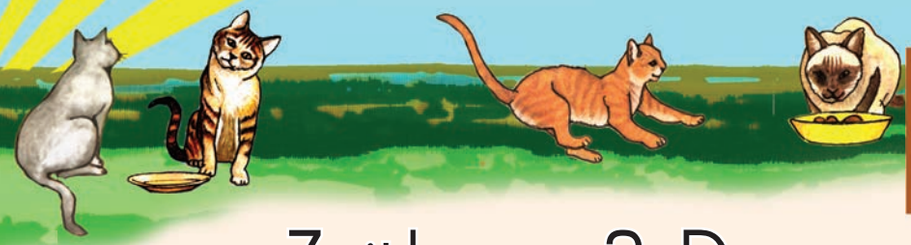
Date:

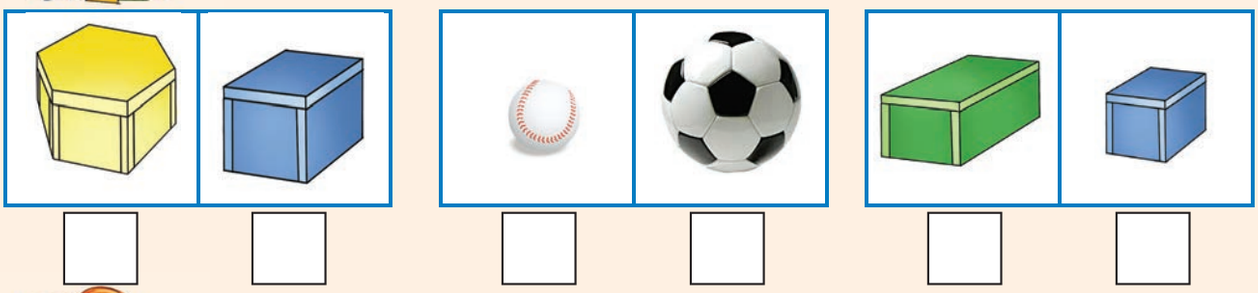


Deithi:

Zwithu zwa 3-D

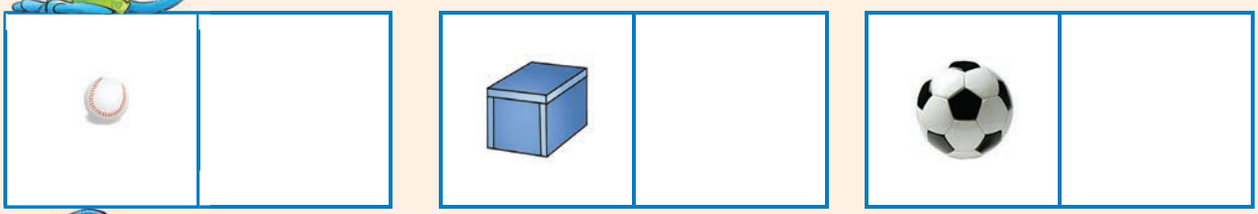


Itani thiki kha tshithu tshiṱukusa.



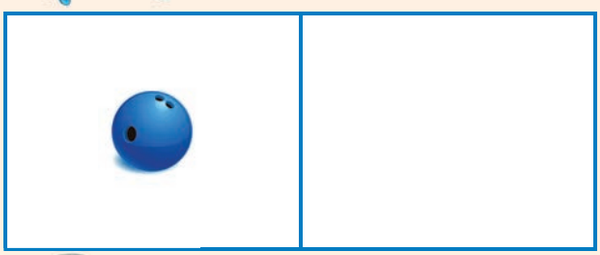


Olani tshithu tshihulwane kha tshanḓa tsha u ḽa tsha tshifanyiso tshiṅwe na tshiṅwe.

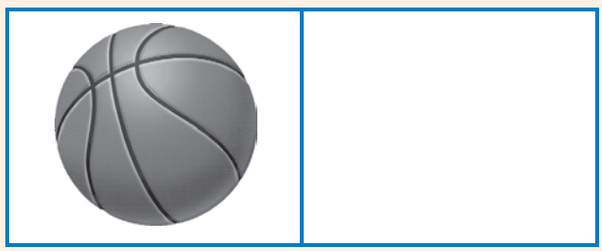




Olani bola i re khulwane kha bola ya lutombo.

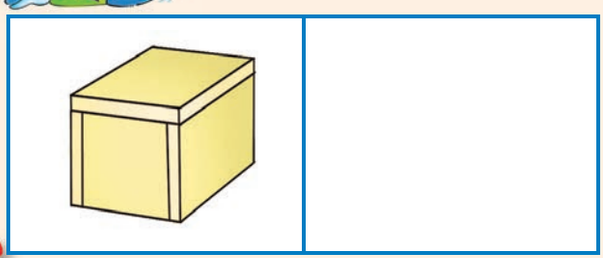


Olani bola i re ṱhukhu kha bola ya gireyi.

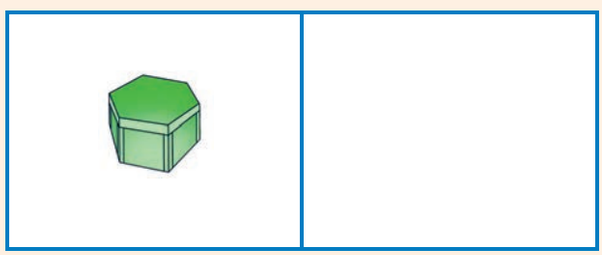


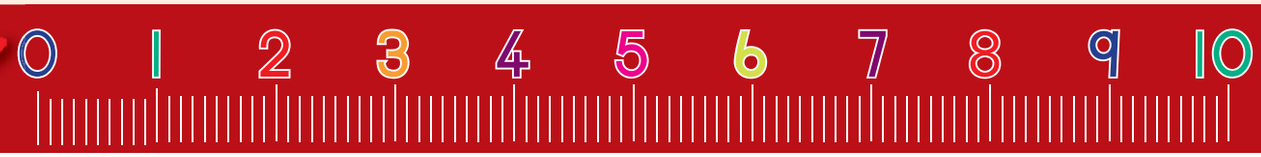


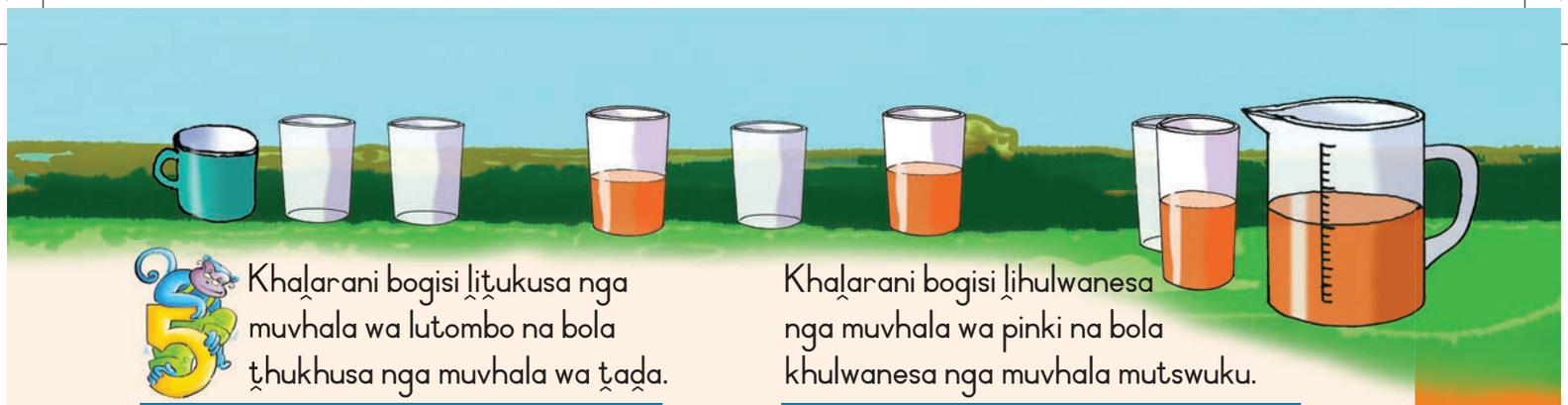
Olani bogisi ḽi re ḽihulwane kha bogisi ḽa ṱaḓa.



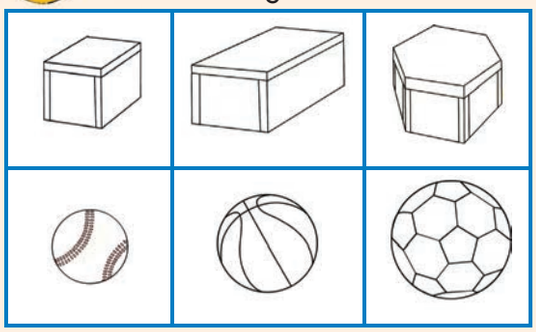
Olani bogisi ḽi re ḽihulwane kha bogisi ḽidala.



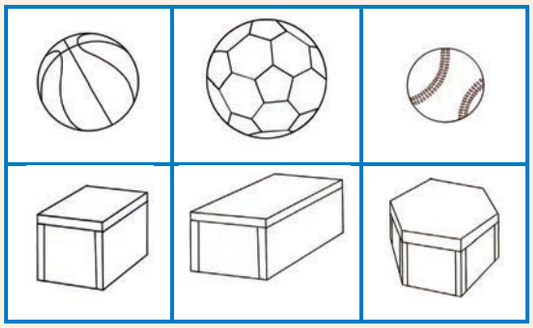




5 Khaḽarani bogisi ḽiṱukusa nga muvhala wa lutombo na bola ṱhukhusa nga muvhala wa ṱaḓa.



Khaḽarani bogisi ḽihulwanesa nga muvhala wa pinki na bola khulwanesa nga muvhala mutswuku.





Ni nga kona u fhaṱa thawara nga zwithu zwi tevhelaho?



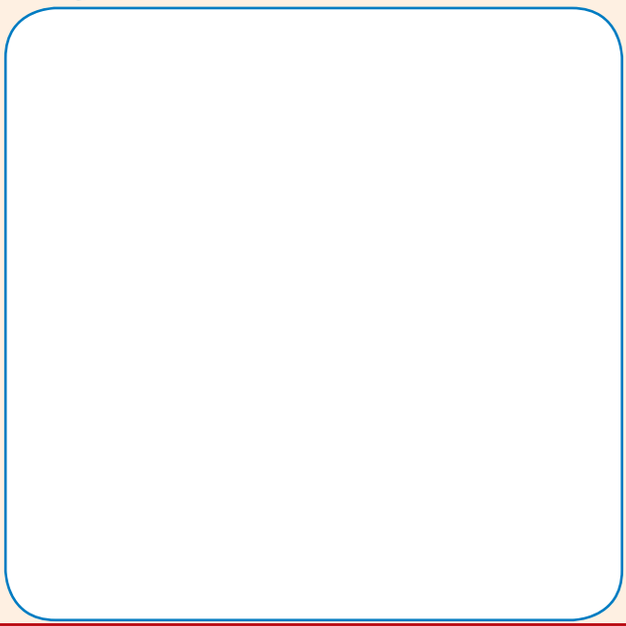
Khaḽarani ee kana hai.

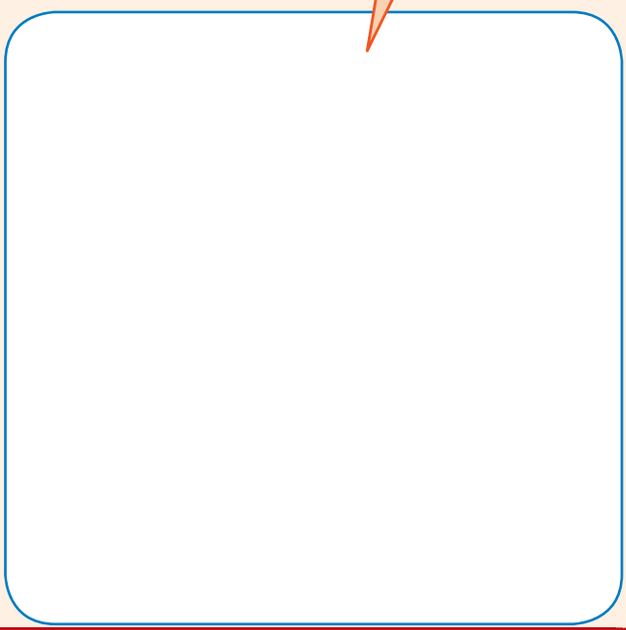
ee	hai	ee	hai	ee	hai



7 Gerani ni nambatedze zwifanyiso zwi no bva kha magazini kana guranṋḓa ni tshi ita thawara mbili dza inwi muṇe.

Ni elelwe uri thawara idzi dzi tea u ima nga dzoṱhe (u baḽantsa).







11 12 13 14 15 16 17 18 19 20



Deithi:

Zwithu zwa 3-D – U swenda na u kunguluwa

Themo ya 3



Izwi zwithu zwi ḓo kunguluwa kana zwi ḓo swenda?
Khaḽarani phindulo i re yone.



u kunguluwa	u swenda



u kunguluwa	u swenda



u kunguluwa	u swenda



u kunguluwa	u swenda



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



ee	hai



ee	hai



ee	hai

0 1 2 3 4 5 6 7 8 9 10



Vhekanyani zwithu zwi tevhelaho nga u zwi ola tshibuḽokoni tshone.

	Bola	Mabogisi

Vhekanyani zwithu nga saizi yazwo ni tshi tou zwi ola.

	Bola ṱhukhu	Mabogisi maṱuku
	Bola khulwane	Mabogisi mahulwane

Teacher:
Sign:
Date:

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Deithi:

Phetheni dza dzhometiri

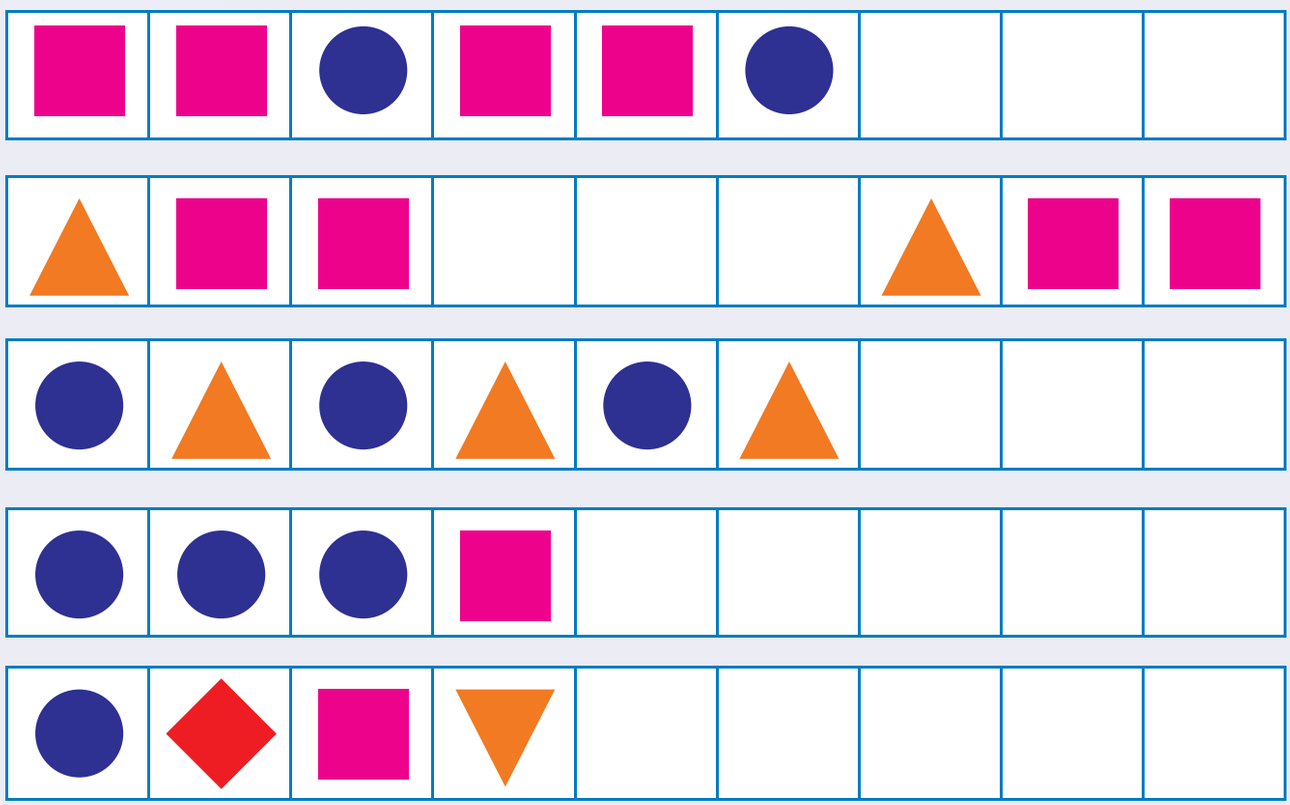
Mvusuludzo:

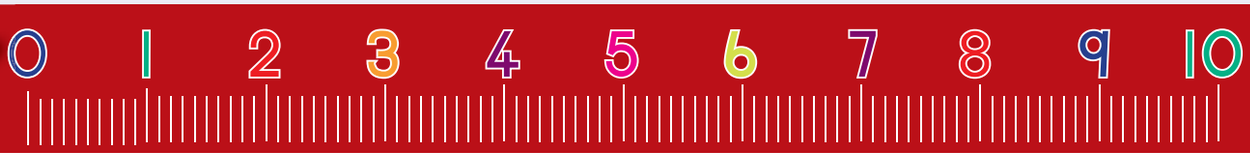
Olani zwi tevhelaho:

tshitendeledzi	tshikwea	rekithiengele



Fhedzisani phetheni.







Olani zwifanyiso ni tshi isa phanḓa na phetheni.



Olani phetheni yaṋu inwi muṋe.



Nambatedzani zwifanyiso ni tshi ita phetheni yaṋu inwi muṋe.

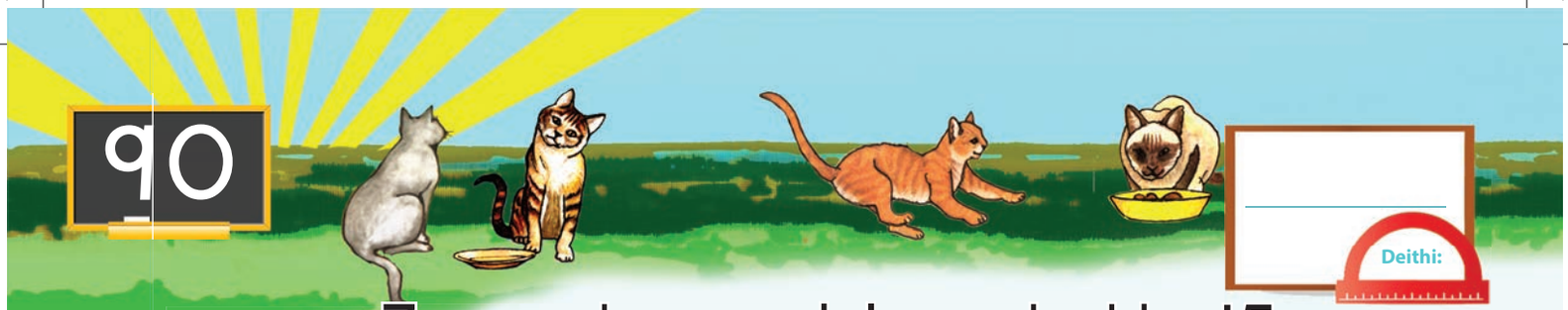


Fhedzisani phetheni iyi.

A	B	C	A	B	C				A	B	C

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



90

Deithi:

Zwigwada zwa mbili u swika kha 15



Ṅwalani dzinambalo ḽa tshiga itshi.

2	mbili



Fhindulani mbudziso.



Ni kona u vhona phingwini nngana?

Ni kona u vhona phere nngana dza milenzhe?

I ṅwaleni sa fhungombalo:



Fhindulani mbudziso.



Hu na bugu nngana?

Ndi nga kona u ita zwigada zwingana zwa mbili?

I ṅwaleni sa fhungombalo.



Ṅwalani dzinambalo ḽa tshiga itshi.

4	



Vhalani mabesu, ni ṅwale phindulo yaṋu.



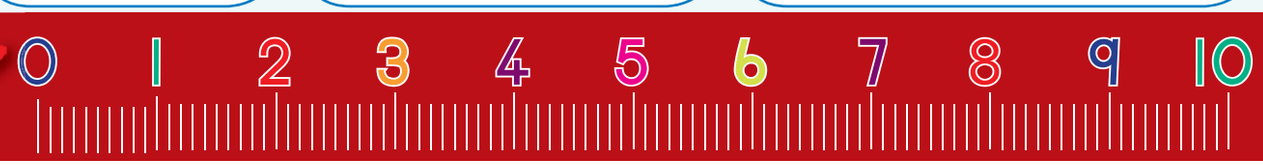
2 + 2 =



2 + 2 + 2 =



2 + 2 + 2 + 2 =



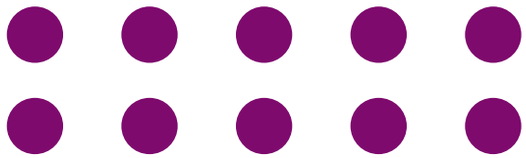


Itani zwitendeledzi u mona na zwi tevhelaho uri ni ite:

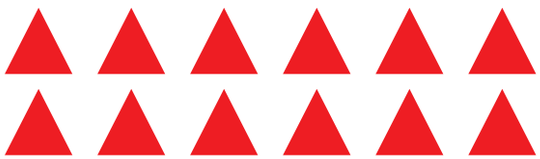
zwigwada zwa 4 zwa dza 2



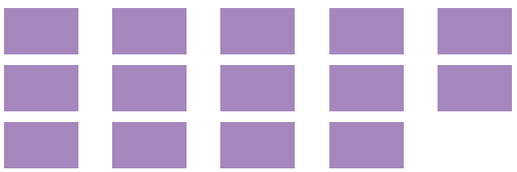
zwigwada zwa 5 zwa zwa 2



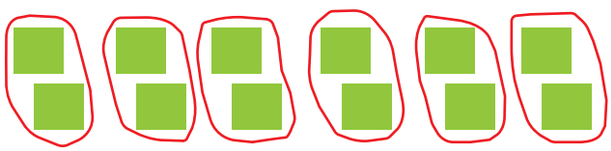
zwigwada zwa 6 zwa dza 2

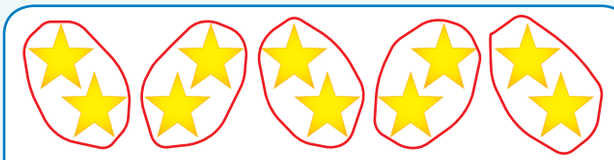


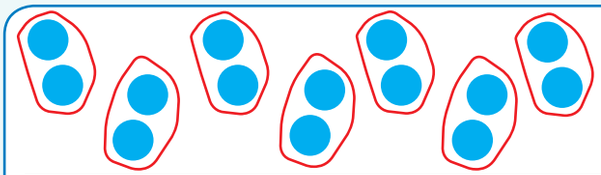
zwigwada zwa 7 zwa dza 2

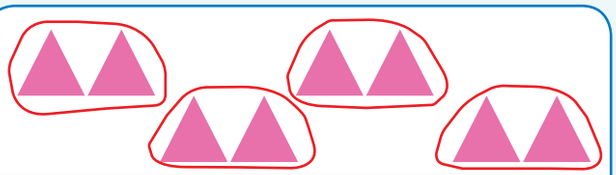


Ṅwalani fhungombalo ḽa zwi tevhelaho.









Ni nga ita zwigwada zwingana zwa zwivhili?

13 na 1 dzi ita	zwigwada zwa
11 na 1 dzi ita	zwigwada zwa
9 na 1 dzi ita	zwigwada zwa
7 na 1 dzi ita	zwigwada zwa

12 na i dzi ita	zwigwada zwa
5 na 1 dzi ita	zwigwada zwa
1 na 1 dzi ita	zwigwada zwa
10 na 0 dzi ita	zwigwada zwa

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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Deithi:

Ndovhololo ya muṱanganyo wa mbili u swika kha 15



Hu na milenzhe mingana?



No i vhalisa hani?



Olani zwivhumbeo ni tshi sumbedza zwi tevhelaho:

2 + 2 + 2 + 2 + 2 = ☐



2 + 2 + 2 + 2 + 2 + 2 + 2 = ☐

2 + 2 + 2 + 2 = ☐

2 + 2 + 2 + 2 + 2 + 2 = ☐





Ṅwalani mafhungombalo a zwi tevhelaho:

2 + 2 + 2 + 2 + 2 = ☐

☐

☐

☐

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

☐ ☐ ☐

Fhedzisani phetheni iyi ya nomboro dzine na ḓo dzi shumisa kha u vhumba zwigwada zwa zwivhilizwivhili.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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Deithi:

Zwivhilizwivhili u swika kha 15

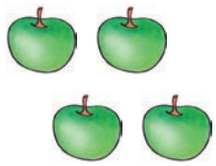


Ṅwalani nomboro dzi no khou ṱahela.

1		3		5		7		9	
11		13		15					

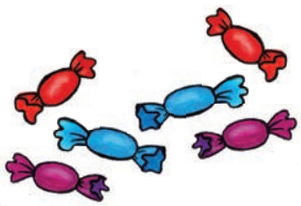


Itani zwigwada zwa mbili.
Itani tshitendeledzi u mona na tshigwada tshiṅwe na tshiṅwe tsha mbili.



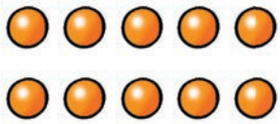


Hu na zwigwada zwingana zwa maapula? ☐
Ṅwana muṅwe na muṅwe u ḓo wana maapula mangana? ☐



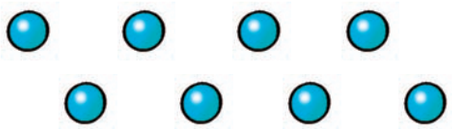


Hu na zwigwada zwingana zwa maḽegere? ☐
Ṅwana muṅwe na muṅwe u ḓo wana maḽegere mangana? ☐





Hu na zwigwada zwingana zwa mimavhuḽu? ☐
Ṅwana muṅwe na muṅwe u ḓo wana mimavhuḽu mingana? ☐





Hu na zwigwada zwingana zwa mimavhuḽu? ☐
Ṅwana muṅwe na muṅwe u ḓo wana mimavhuḽu mingana? ☐

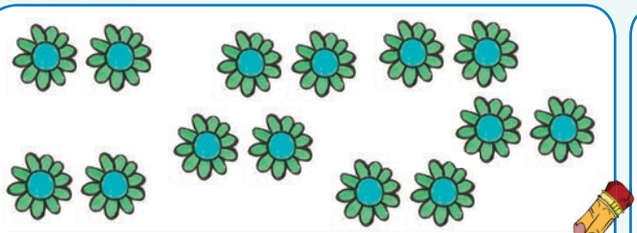
0 1 2 3 4 5 6 7 8 9 10



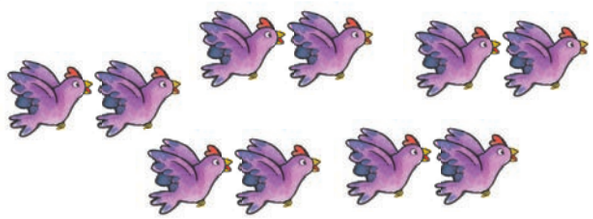
Ṅwalani nomboro dzi no khou ṱahela.

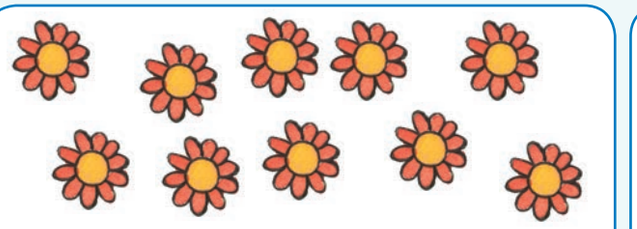
1	2	3	4		6	7	
2	4		8	10		14	16
0	3	6		12		18	21

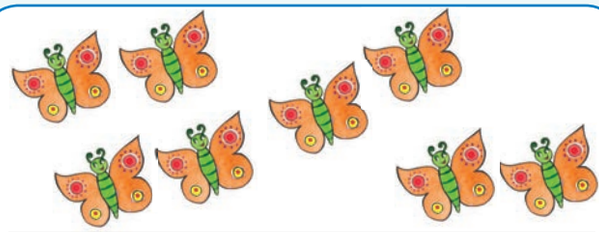
Ṅwalani fhungombalo ni tshi shumisa mbili.



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







Rekanyani zwi tevhelaho.

2 + 2 + 2 =	
2 + 2 + 2 + 2 =	
2 + 2 + 2 + 2 + 2 =	
2 + 2 + 2 + 2 + 2 + 2 =	
2 + 2 + 2 + 2 + 2 + 2 + 2 =	

Tangedzelani zwigwada zwa zwivhilizwivhili kha mutaladzi muṅwe na muṅwe.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



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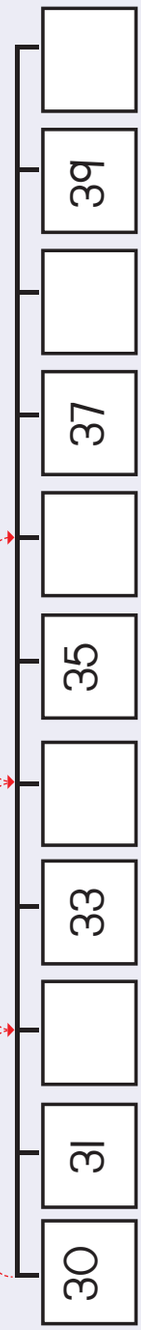
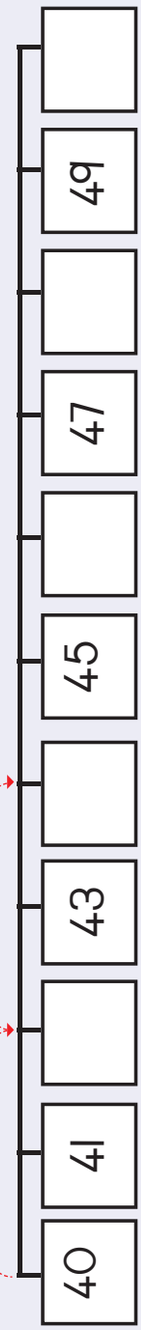
Deithi:

Phetheni dza nomboro 2 u swika kha 50



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







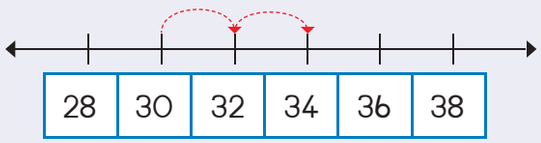
Fhedzisani phetheni nga u khaḽara nomboro dzone.

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

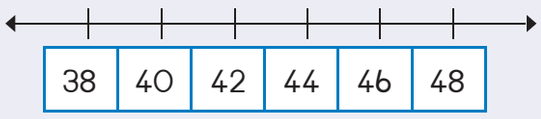


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

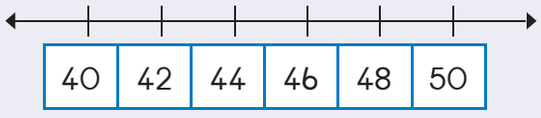
30, 32, 34

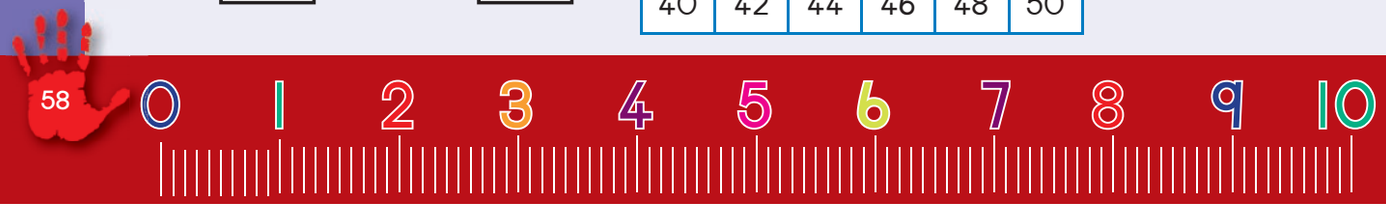


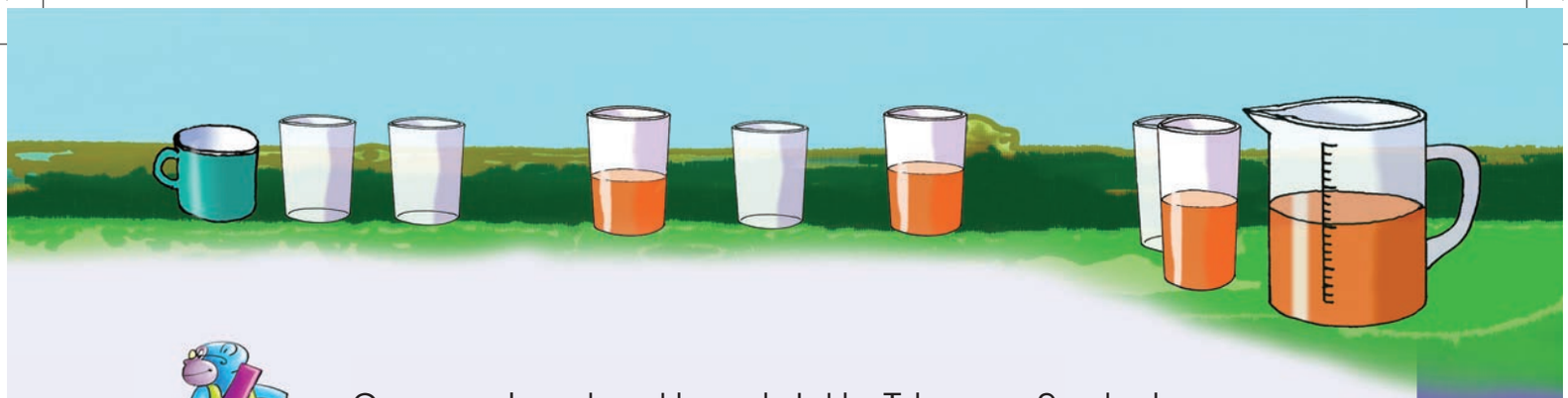
40, 42, 44



46, 48, 50

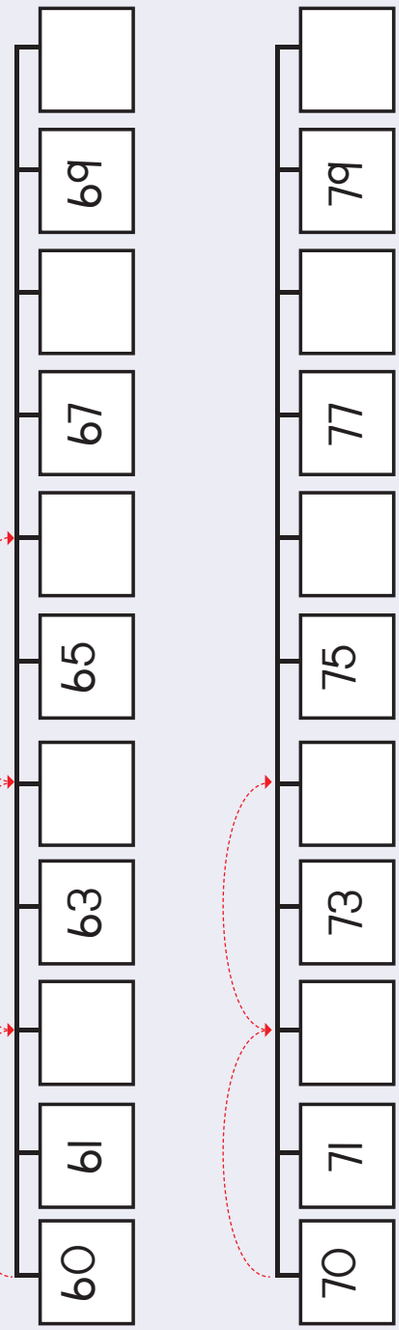








Gerani nomboro dzi no khou ṱahela kha Tshigeriwa 2 ni dzi vhee kha mutalombalo. Ni ite na u fhedzisa dzihupu.





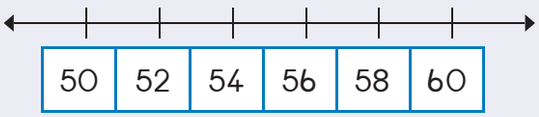
Fhedzisani phetheni nga u khaḽara nomboro dzone.

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

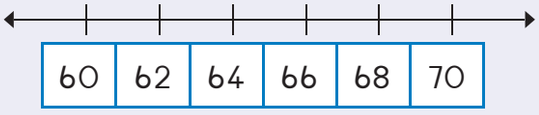


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

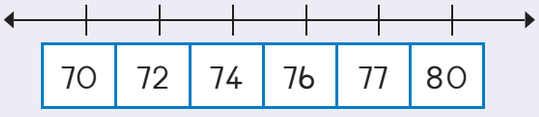
54, 56, 58



64, 66, 68



72, 74, 76





Teacher:
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Date:

11 12 13 14 15 16 17 18 19 20

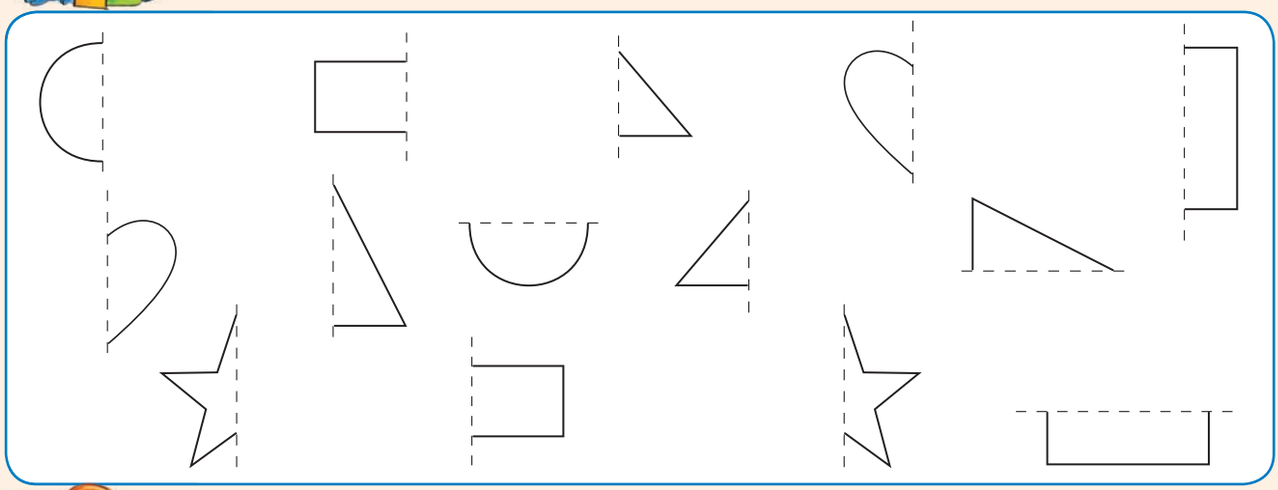


Deithi:

Ndinganahuvhili

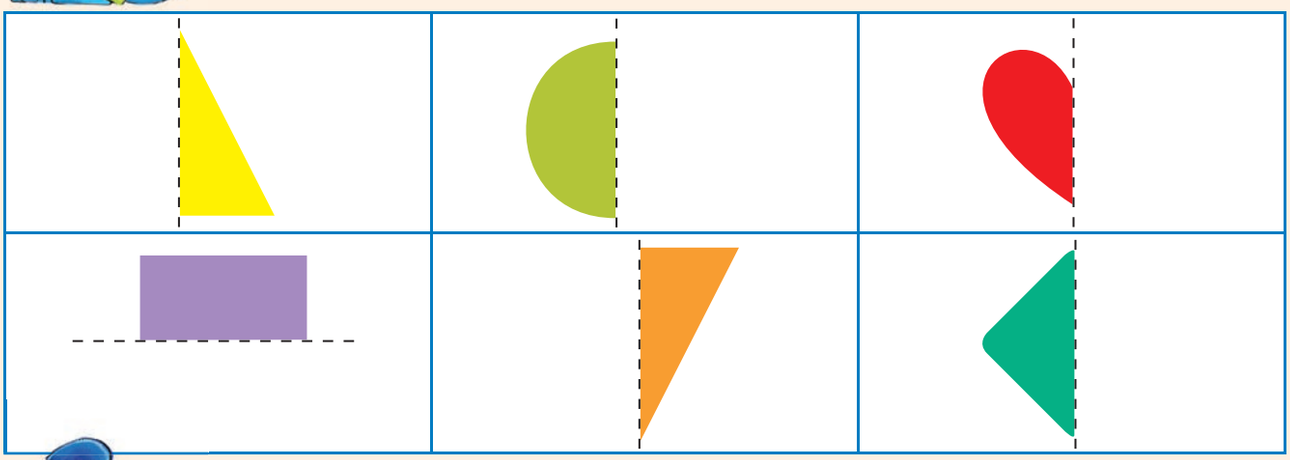


Khaḽarani zwipiḓa zwivhili zwa zwivhumbeo zwine zwa ḓo vhumba tshivhumbeo tshithihi.



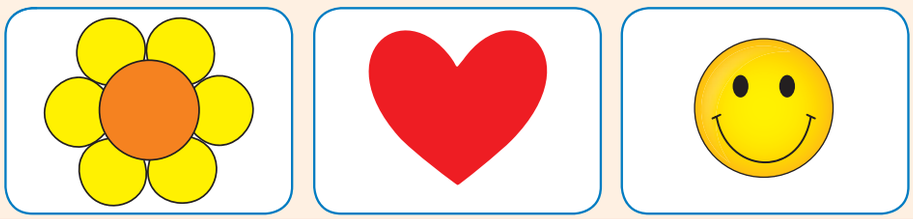


Olani iḽa iṅwe hafu ni i khaḽare.



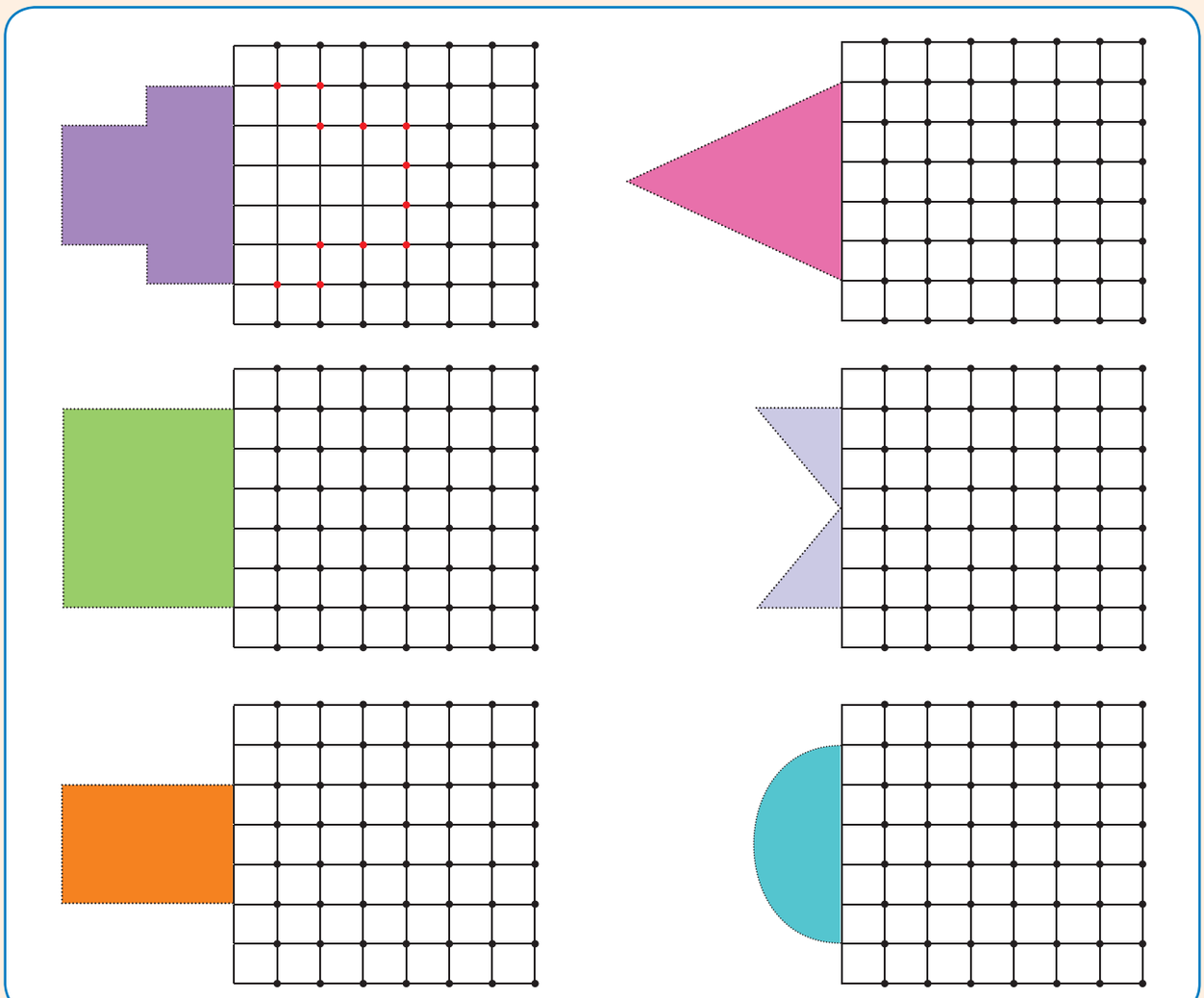


Talani mutalo u no fhandula zwifanyiso izwi zwa bva hafu mbili dzi no lingana kwakwakwa.

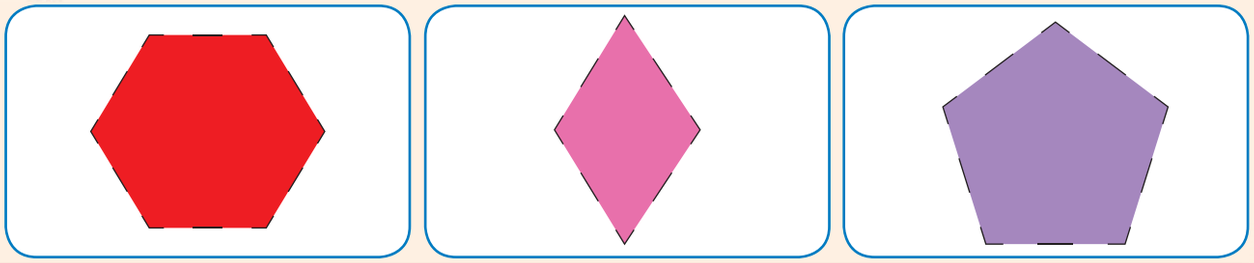




Olani iḽa iṅwe hafu ya tshivhumbeo ni tshi shumisa bodo ya giridi uri i ni dededze.



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



Teacher:
Sign:
Date:

95

Deithi:

Momboro na vhuimo ha nomboro

Ṅwalani nomboro dzi no khou ṱahela.

10	11				15
9	10				

Ṅwalani nomboro dzi no khou ṱahela.

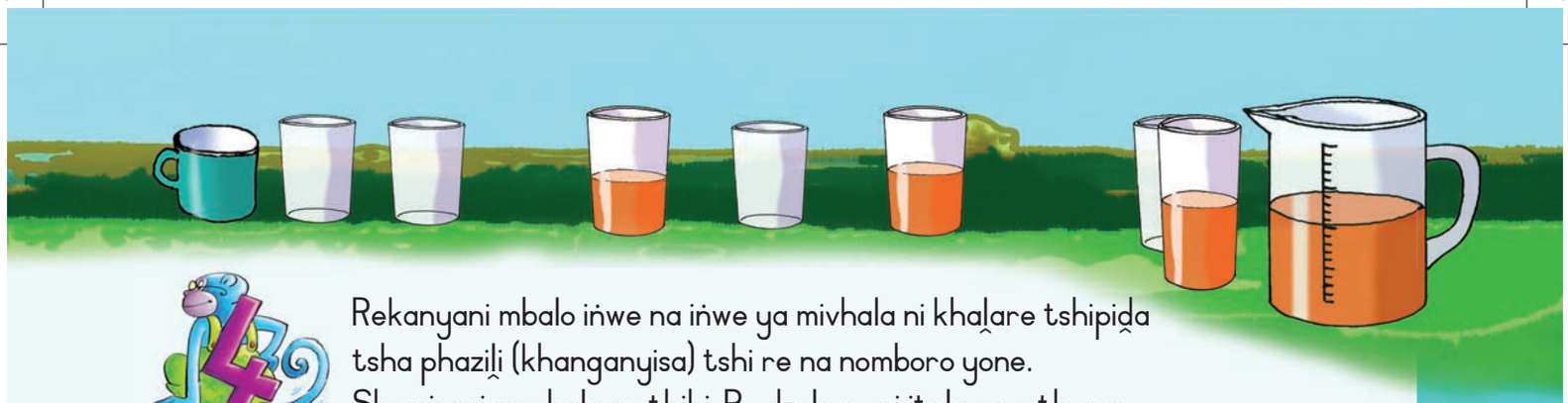
6	7			10	11				15
15	14				10				6

Ṅwalani phindulo.

10 + 1 =	11
10 + 2 =	
10 + 5 =	
10 + 3 =	

15 − 10 =	
14 − 10 =	
12 − 10 =	
11 − 10 =	

0 1 2 3 4 5 6 7 8 9 10



Rekanyani mbalo iṅwe na iṅwe ya mivhala ni khaḽare tshipiḓa tsha phaziḽi (khanganyisa) tshi re na nomboro yone.
Shumisani muvhala muthihi. Ro dzula ro ni itela ya u thoma.

10 + 1 nga mutswuku

10 + 3 nga pinki

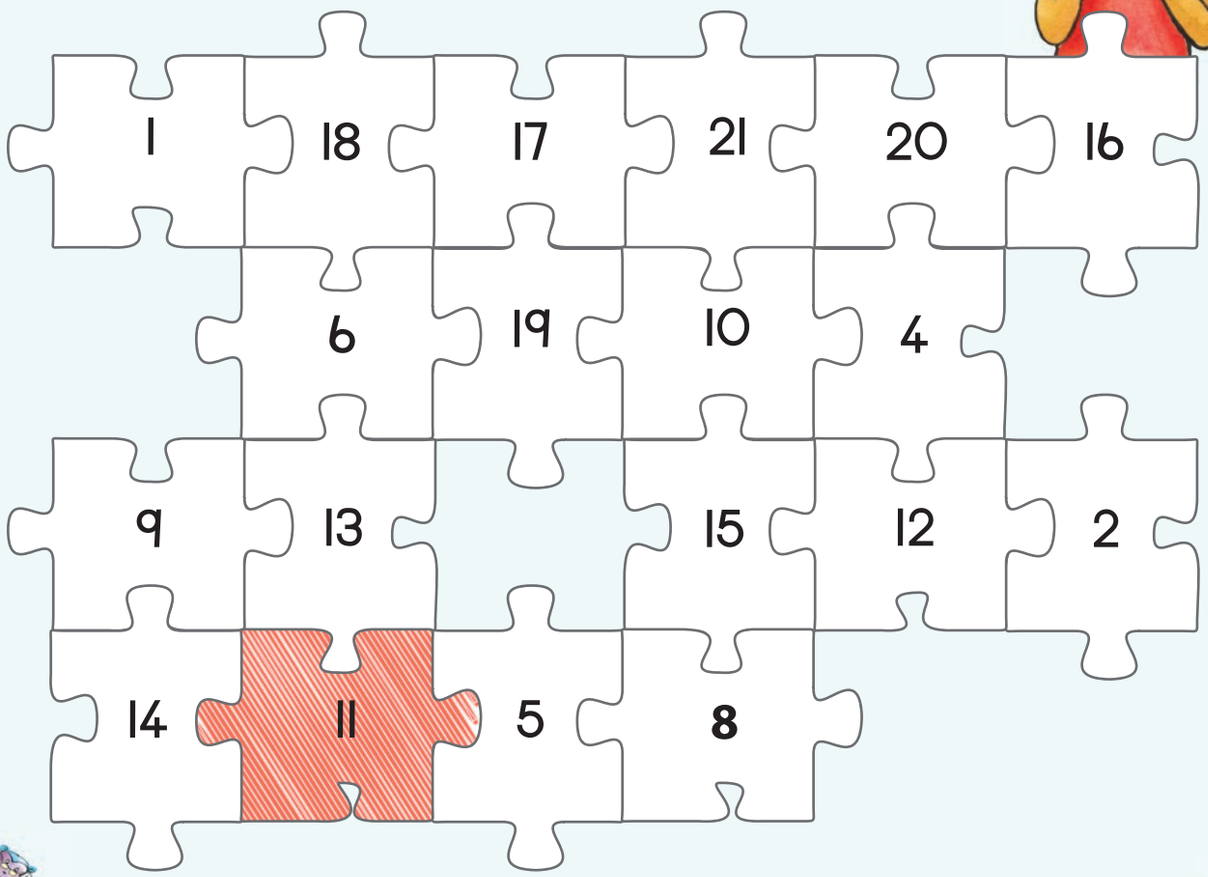
10 + 5 nga wa lutombo

10 + 4 nga muṱaḓa

10 + 0 nga mudala

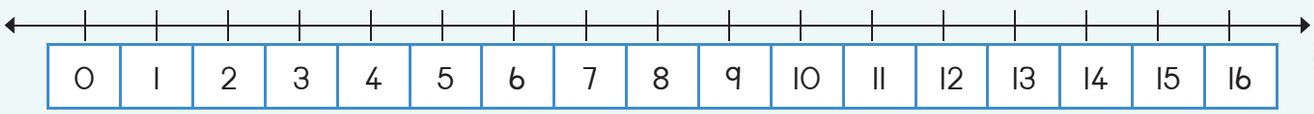
10 + 2 nga wa tshitopana







Sumbedzani fumi na iṋa kha mutalombalo:



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

96

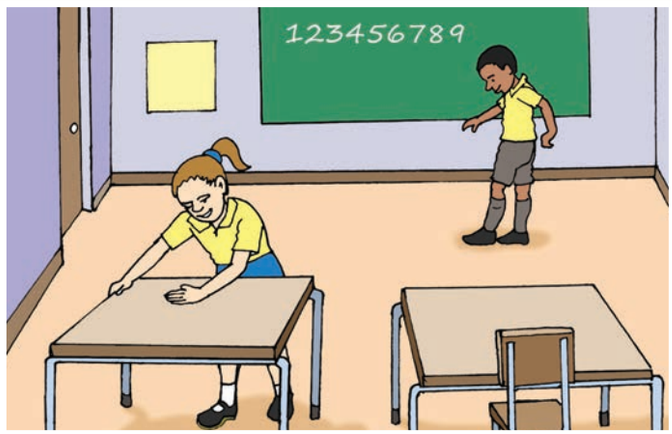


Deithi:

Vhulapfu (Vhunavha)



Elani vhulapfu (vhunavha) na vhuphara ha desike kana ṱafula ni tshi shumisa vhulapfu ha tshanḓa tshaṋu. Ndi vhulapfu ha zwanḓa vhungana hu no linga vhulapfu ha ṱafula?
Ndi vhulapfu ha zwanḓa vhungana hu no linga vhuphara?

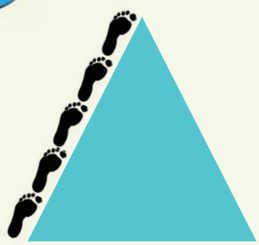


Vhulapfu vhu lingana vhulapfu ha tshanḓa ha _____.

Vhuphara vhu lingana vhulapfu ha tshanḓa ha _____.



Ndi maga mangana a no ela vhulapfu ha matungo?



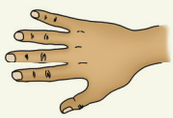






Ṅwalani phindulo.



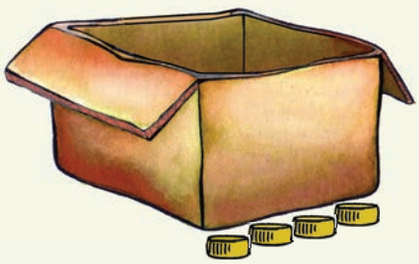


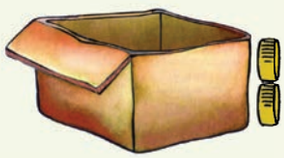
Vhulapfu vhu lingana vhulapfu ha tshanḓa ha _____.

0 1 2 3 4 5 6 7 8 9 10



Vhulapfu na vhuphara ha bogisi ili ndi vhufhio?



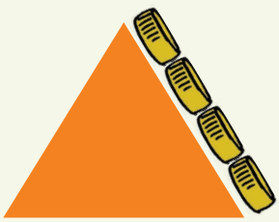


Vhulapfu ha hone vhu lingana vhulapfu ha zwithivho zwa baboḓelo zwa _____.

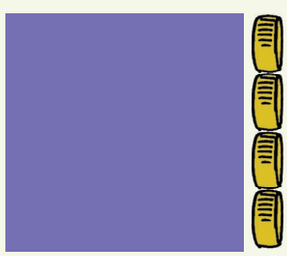
Vhuphara ha hone vhu lingana vhulapfu ha zwithivho zwa baboḓelo zwa _____.

Ndi zwithivho zwingana zwi no ela vhulapfu ha matungo.









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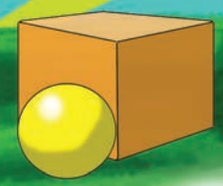
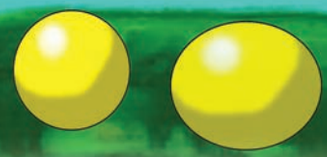
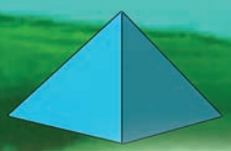
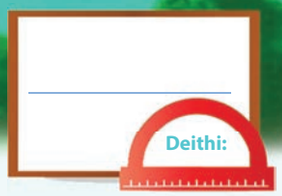
Date:

11 12 13 14 15 16 17 18 19 20









Nomboro 16

Mvusuludzo:

Itani nḓowenḓowe ya u ṅwala dzinambalo ni fhedzise phetheni.

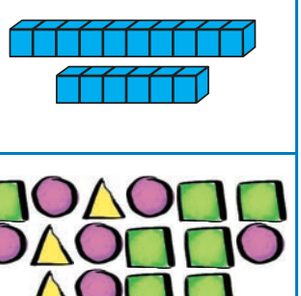
7 sumbe

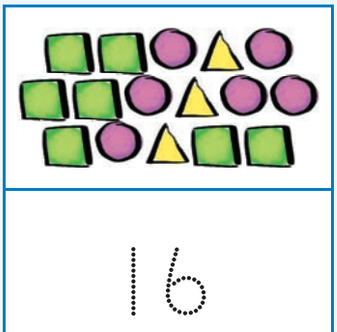


Livhanyani zwifanyiso.



Tovhedzelani nomboro.





16 16 16 16

fumirathi

16 16 16 16

fumirathi

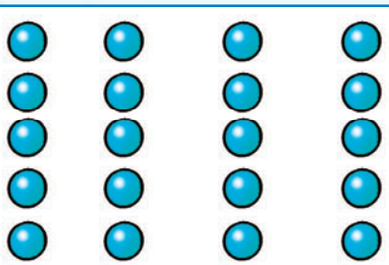
10 6

16

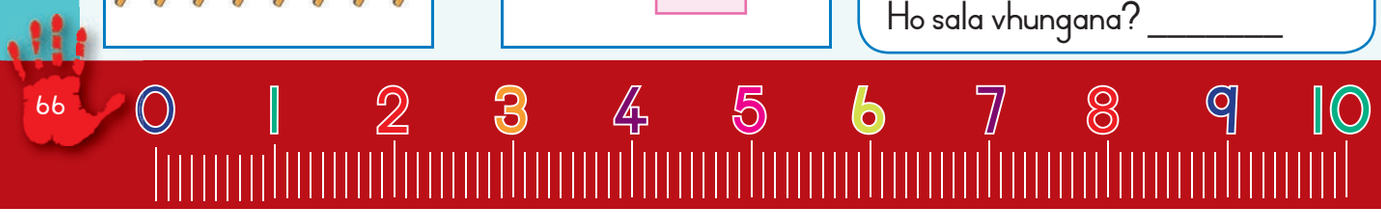
10 6



Tangedzelani mimbete ya 16 fhedzi.



Ho sala vhungana? _____





Olani zwithu zwa 16.

Zwino zwi oleni nga nḓila iṅwevho.

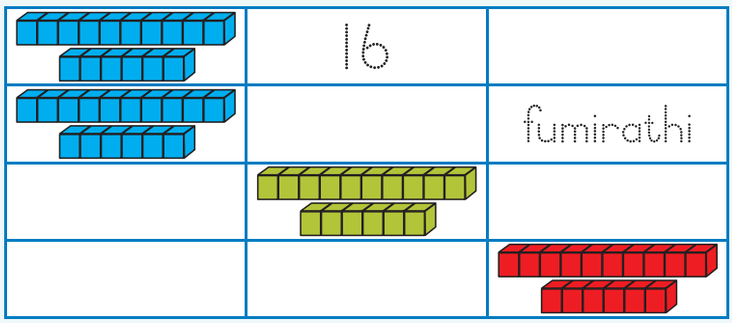


Ṅwalani nomboro i no khou ṱahela.

2	3	4
19		21
17		19



Fhedzisani thebulu. Rou iṅwe na iṅwe i na tshifanyiso, nomboro na ipfi ḽo imelaho nomboro iyo.





Ndi nomboro ifhio i re ṱhukhu kha 16 nga thihi? _____

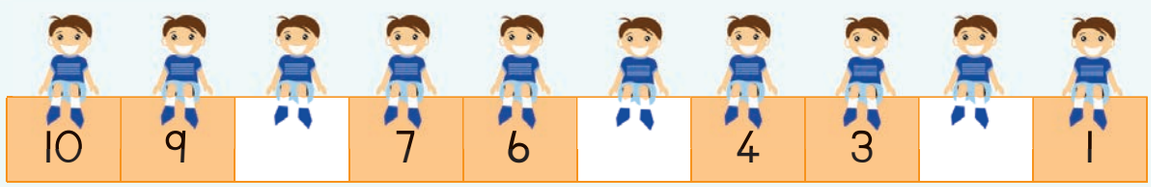
Ndi nomboro ifhio i re khulwane kha 16 nga thihi? _____



Ndi nomboro ifhio i re ṱhukhu kha fumirathi nga thihi?	
Ndi nomboro ifhio i re ṱhukhu kha fumirathi nga mbili?	
Ndi nomboro ifhio i re khulwane kha fumirathi nga thihi?	
Ndi nomboro ifhio i re khulwane kha fumirathi nga mbili?	



Ṅwalani nomboro dzi no khou ṱahela.



Teacher:
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Date:

11 12 13 14 15 16 17 18 19 20

Deithi:

Nomboro 17

Mvusuludzo:

Itani ndowendowe ya u ṅwala dzinambalo ni fhedzise phetheni.

8 | malo

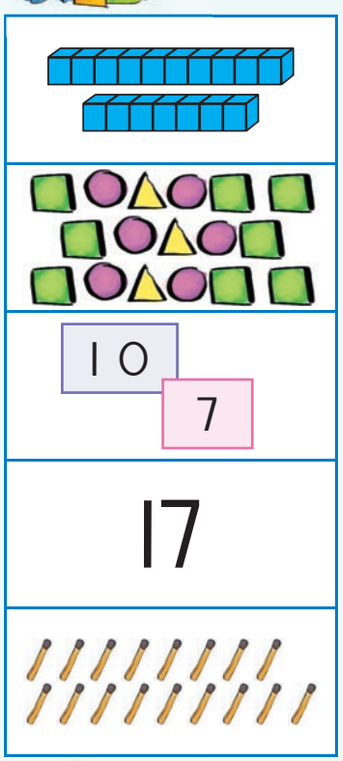


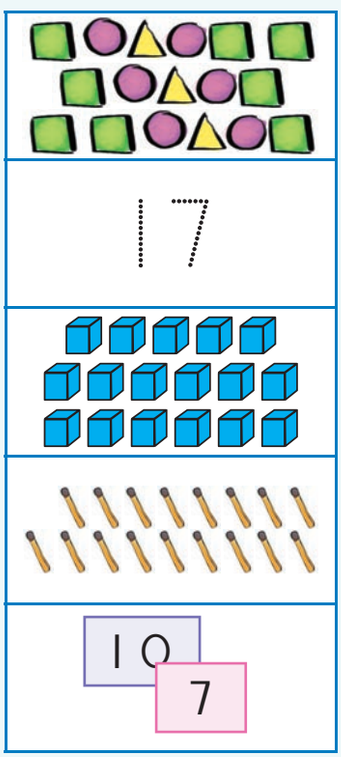


Livhanyani zwifanyiso.



Tovhedzelani nomboro.

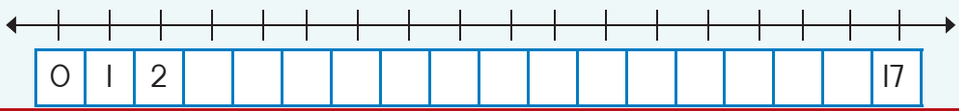




17	17	17	17
fumisumbe			
17	17	17	17
fumisumbe			



Fhedzisani mutalombalo.





Olani zwithu zwa 17.

Zwino zwi oleni nga nḓila iṅwevho.

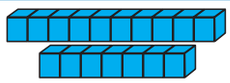
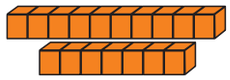
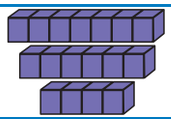
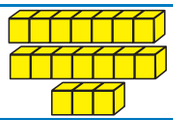


Ndi nomboro ifhio i no tevhela?

16	17	
24	25	
17	18	



Fhedzisani thebuḽu. Rou iṅwe na iṅwe i na tshifanyiso, nomboro na ipfi ḽo imelaho nomboro iyo.

	17	
		
		fumisumbe
		



Ndi nomboro ifhio i re ṱhukhu kha fumisumbe nga thihi?	
Ndi nomboro ifhio i re ṱhukhu kha fumisumbe nga mbili?	
Ndi nomboro ifhio i re khulwane kha fumisumbe nga thihi?	
Ndi nomboro ifhio i re khulwane kha fumisumbe nga mbili?	



Ṅwalani nomboro i no khou ṱahela.

Ṅwalani nomboro dzi no khou ṱahela.

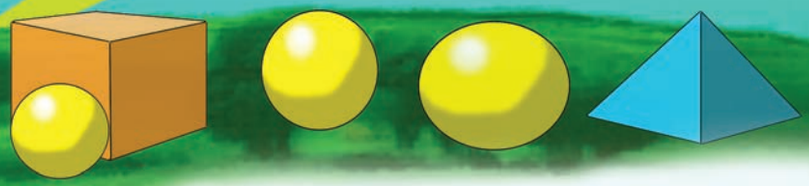
	2		4		6		8		10
	12		14		16		18		20

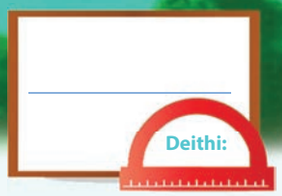


Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20





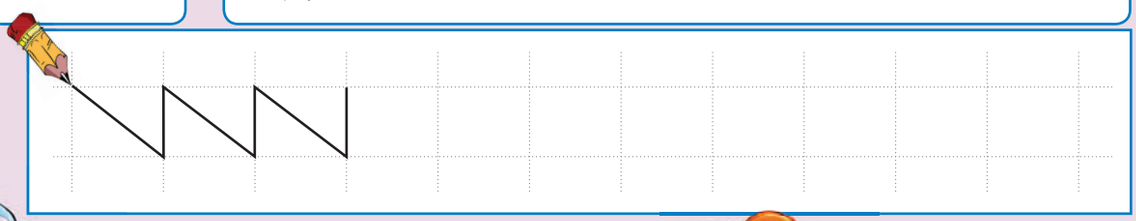


Nomboro 18

Mvusuludzo:

Itani ndowendowe ya u ṅwala dzinambalo ni fhedzise phetheni.

q | ṱahe

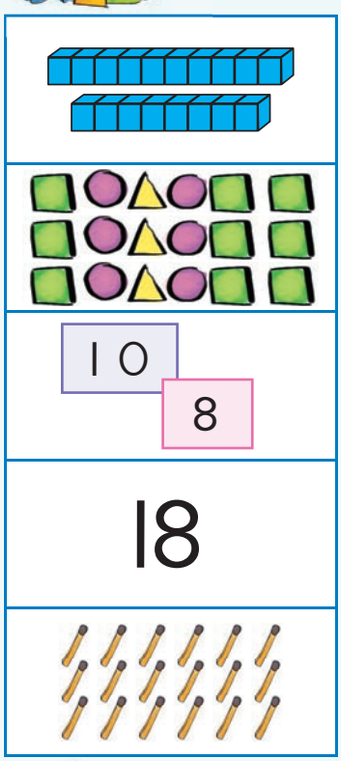


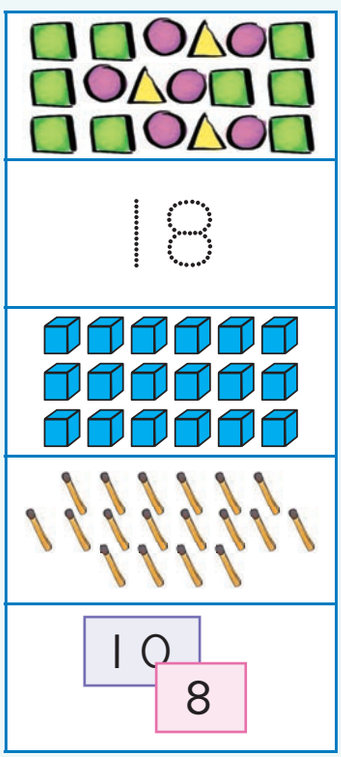


Livhanyani zwifanyiso.

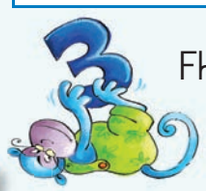


Tovhedzelani nomboro.

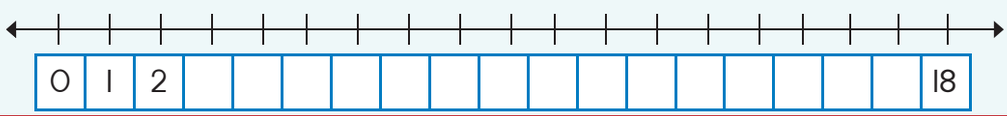


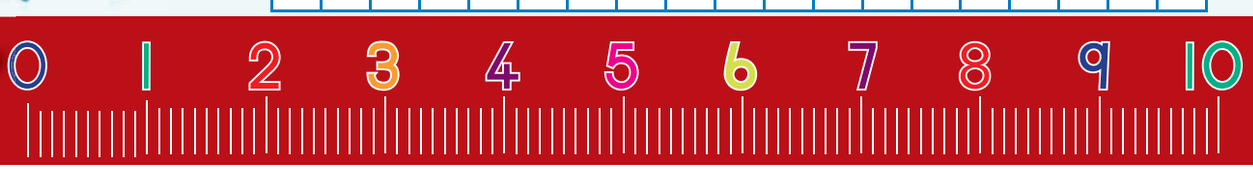


18	18	18	18
fumimalo			
18	18	18	18
fumimalo			



Fhedzisani mutalombalo.







Olani zwithu zwa 18.

Zwino zwi oleni nga nḓila iṅwevho.

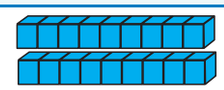
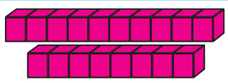
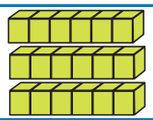
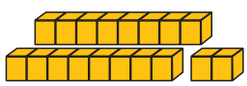


Ndi nomboro ifhio i no tevhela?

8	9	
33	34	
0	1	



Fhedzisani thebuḽu. Rou iṅwe na iṅwe i na tshifanyiso, nomboro na ipfi ḽo imelaho nomboro iyo.

	18	
		
		fumimalo
		



Ndi nomboro ifhio i re ṱhukhu kha 18 nga thihi?	
Ndi nomboro ifhio i re ṱhukhu kha 18 nga mbili?	
Ndi nomboro ifhio i re khulwane kha 18 nga thihi?	
Ndi nomboro ifhio i re khulwane kha 18 nga mbili?	



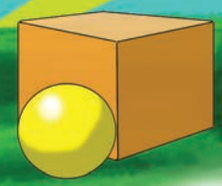
Ṅwalani nomboro i no khou ṱahela.

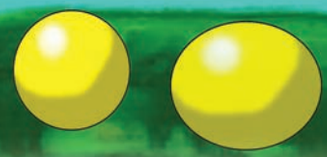
1	2		4	5	6	7		9	10
11		13	14	15		17	18		20



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20





Deithi:

Nomboro 19

Mvusuludzo:

Itani ndowendowe ya u ṅwala dzinambalo ni fhedzise phetheni.

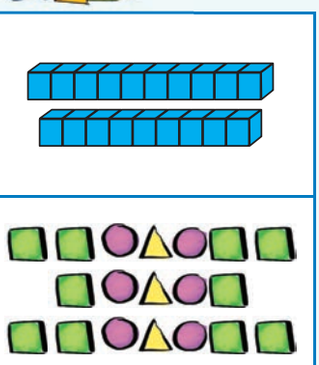
10 fumi

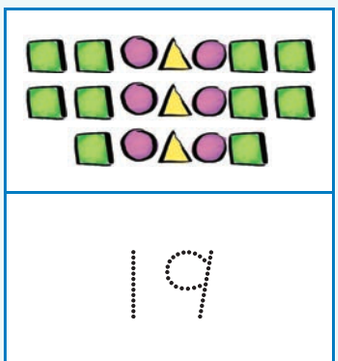


Livhanyani zwifanyiso.



Tovhedzelani nomboro.

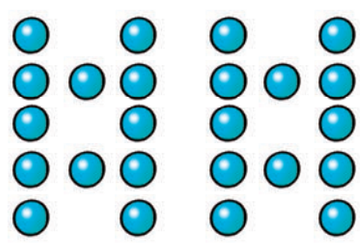




	19 19 19 19
	fumiṱahe
10 9	19 19 19 19
19	fumiṱahe
	10 9



Tangedzelani vhulungu ha 19 fhedzi.



Ho sala vhungana? _____

0 1 2 3 4 5 6 7 8 9 10



4 Olani zwithu zwa 19.

Zwino zwi oleni nga ndila inwevho.

5 Ndi nomboro ifhio i no da vhukati?

14		16
35		37
8		10

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

	19	
		fumitahe

7

Ndi nomboro ifhio i re thukhu kha 19 nga thihi?	
Ndi nomboro ifhio i re thukhu kha 19 nga mbili?	
Ndi nomboro ifhio i re khulwane kha 19 nga thihi?	
Ndi nomboro ifhio i re khulwane kha 19 nga mbili?	

8 Nwalani nomboro i no khou tahela.

Linwe dzina ladzo ndi nomboro dza ivini.

1		3		5		7		9	
11		13		15		17		19	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

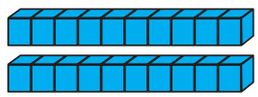
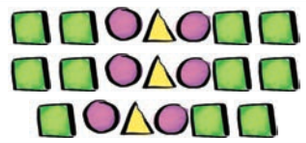
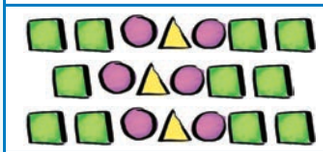
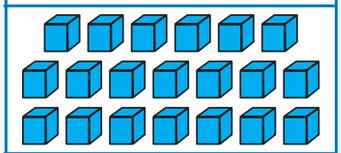
101

Deithi:

Nomboro 20



Livhanyani zwifanyiso.

	
	20
10 10	
20	
	10 10



Tovhedzelani nomboro.

20 20 20 20

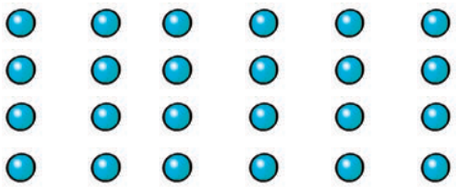
fumbili

20 20 20 20

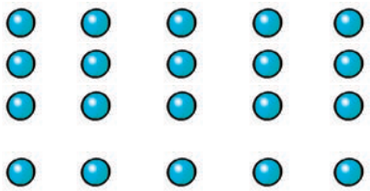
fumbili



Tangedzelani vhulungu ha 20 fhedzi.



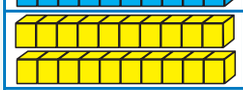
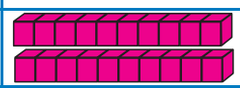
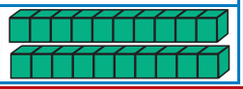
Ho sala vhungana? _____



Ho sala vhungana? _____



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

	20	fumbili
		fumbili
20		
		



Ndi nomboro ifhio i re thukhu kha 20 nga thihi? _____

Ndi nomboro ifhio i re khulwane kha 20 nga thihi? _____

0 1 2 3 4 5 6 7 8 9 10



Ṱumani nomboro na ipfi.

0	ina
1	sumbe
2	ṱahe
3	raru
4	fumithihi
5	fumimbili
6	thihi
7	mbili
8	malo
9	zero
10	ṱhanu
11	rathi
12	fumiraru
13	fumi
14	fumiina



Ṅwalani nomboro i no khou ṱahela.

Rangela		Tevhela
16	17	
	12	
	14	
	9	10
	6	



Shumisani maipfi a **ṱhukhu** na khulwane ni **tshi fhedzisa** hezwi:

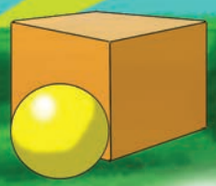
35 ndi _____ kha 38

79 ndi _____ kha 65

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

102



Deithi:

Mutanganyo



Tangedzelani nomboro i re khulwane tshibuḽokoni tshiṅwe na tshiṅwe.

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

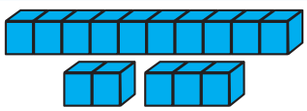


Ṱanganyani zwi tevhelaho. Thomani nga u dzhenisa nomboro khulwane u thoma.

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



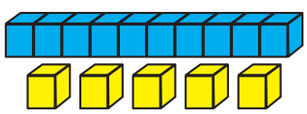
Ṱanganyani zwibuḽoko.

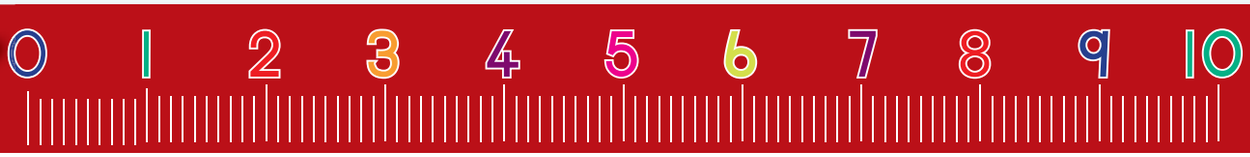


10 + 2 + 3 = 15		
10 + 5 = 15		



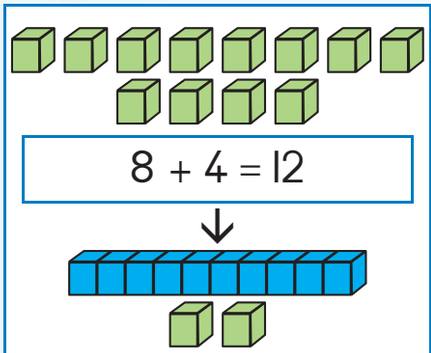
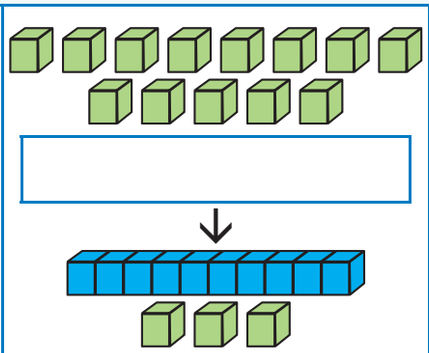
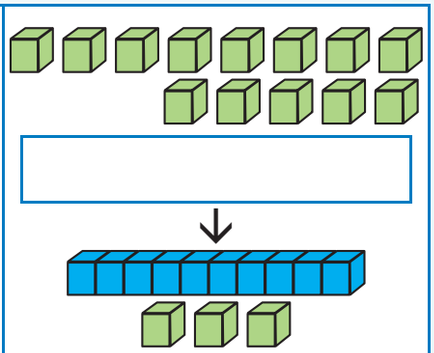
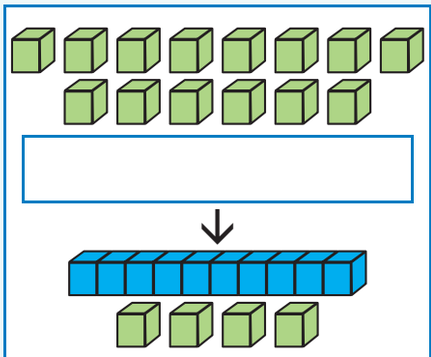
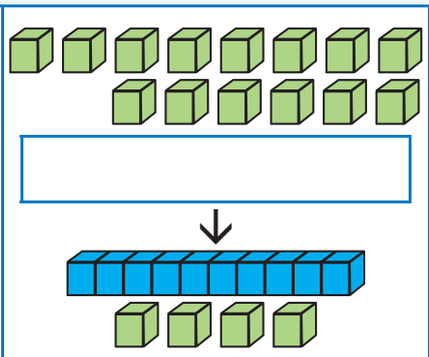
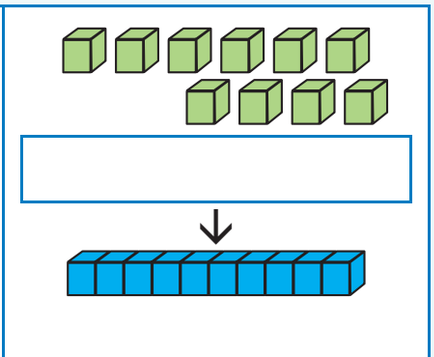
Ṅwalani fhungombalo ḽa zwi tevhelaho.







5 Ṅwalani fhungombalo ḽa zwi tevhelaho:

 8 + 4 = 12 10 + 2 = 12		
		



Ṅwalani nomboro dzi no khou ṱahela.

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



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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Deithi:

Mutuso

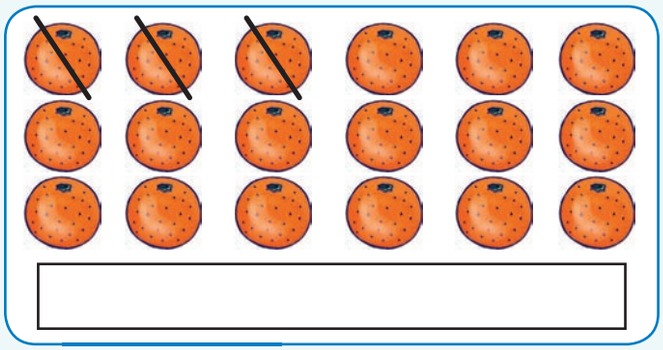


Rekanyani.

17	−4	
19		
14		
12		

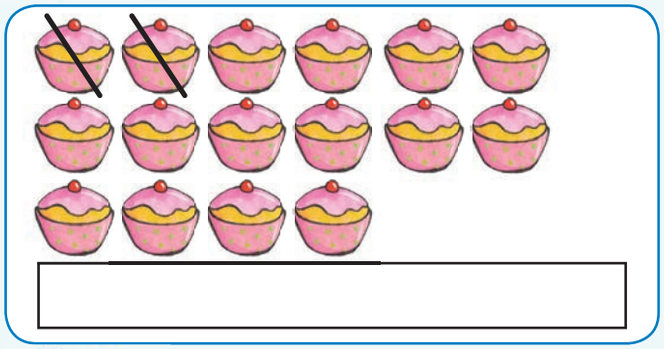


Ṅwalani fhungombalo.





Ṅwalani fhungombalo.



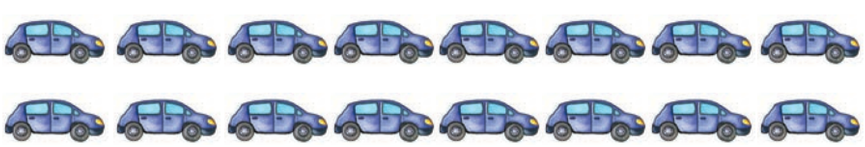


Rekanyani.

18	−4	
7		
15		
9		



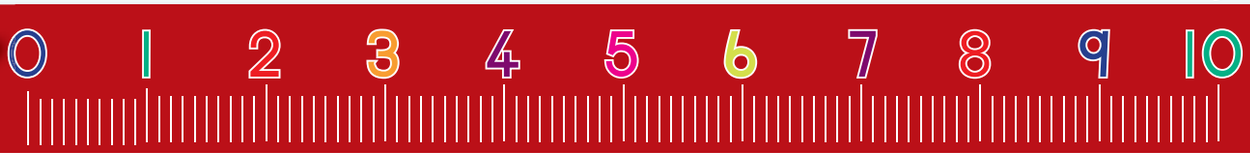
Fhedzisani mbalo ni tshi shumisa nyolo (zwifanyiso).

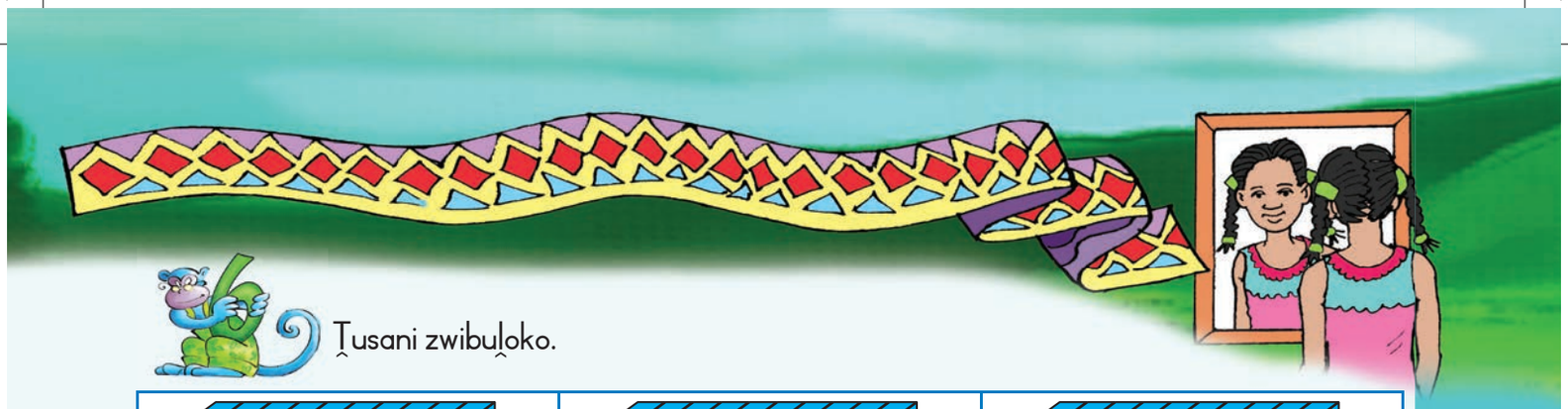


16 − ☐ = 11

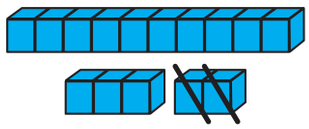
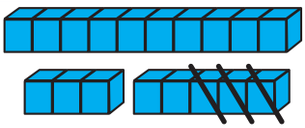
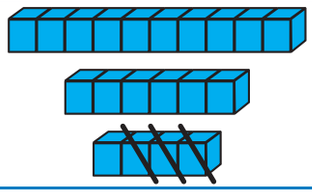


10 + ☐ = ☐





Ṭusani zwibuḽoko.

		
(10 + 3) − 2 =		
13 − 2 =		



Rekanyani zwi tevhelaho.

11 + 7 = ☐ 11 + 4 + ☐ = ☐	11 + 7 = ☐ 11 + 5 + ☐ = ☐
19 − 7 = ☐ 19 − (5 + ☐) = ☐	17 − 9 = ☐ 17 − (7 + ☐) = ☐



Rekanyani zwi tevhelaho.

Nyingakavhili ya 5 ndi ☐	Nyingakavhili ya 3 ndi ☐	Nyingakavhili ya 4 ndi ☐
Nyingakavhili ya 7 ndi ☐	Nyingakavhili ya 2 ndi ☐	Nyingakavhili ya 8 ndi ☐
Nyingakavhili ya 10 ndi ☐	Nyingakavhili ya 9 ndi ☐	Nyingakavhili ya 1 ndi ☐



Findulani zwi tevhelaho:

9 + 9 − 1 =		kana	Ho ingwa kavhili 9 − 1 =	
		kana	Ho ingwa kavhili 5 − 1 =	
4 + 4 − 1 =		kana		

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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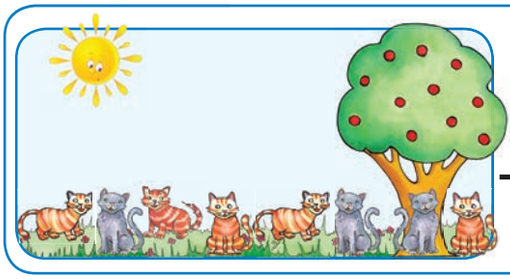
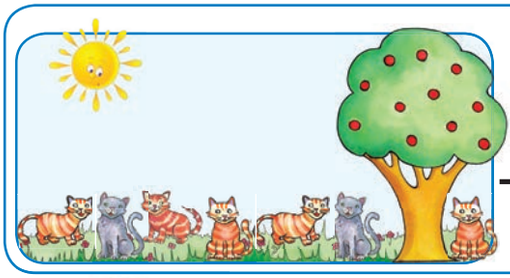
Deithi:

Muṱanganyo na muṱuso

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



3 + ☐ = 8



4 + ☐ = ☐

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

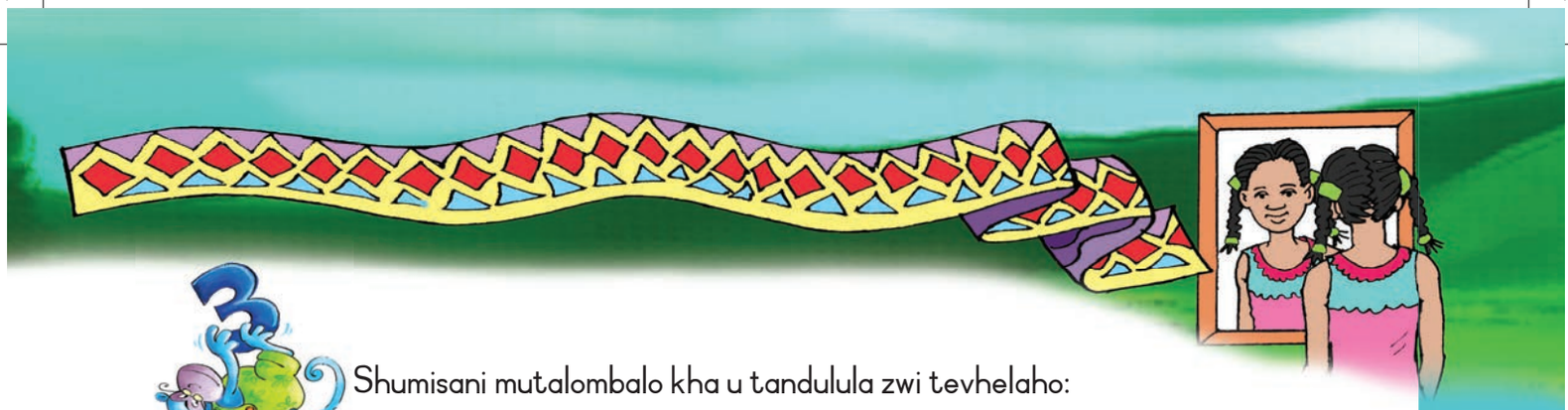


Lerato o vha e na maswiri a 4. Peter a mu fha maswiri a 13.
U na maswiri mangana zwino?

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

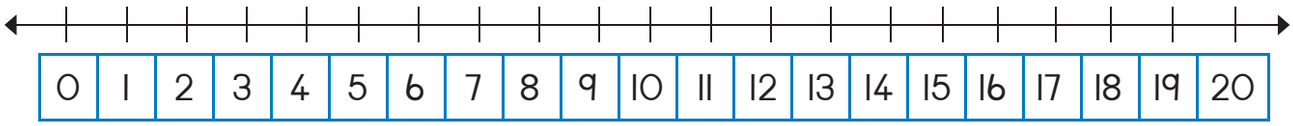


0 1 2 3 4 5 6 7 8 9 10

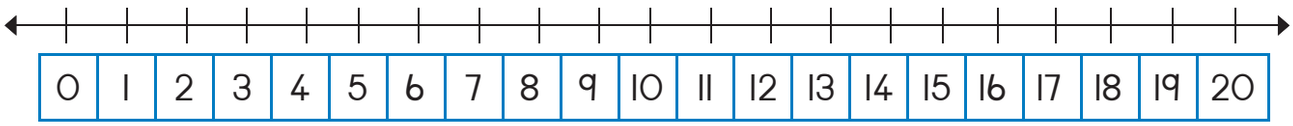


Shumisani mutalombalo kha u tandululula zwi tevhelaho:

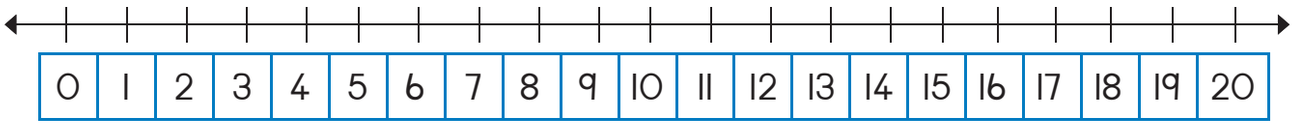
Thandi u na mimavhuḽu midala ya 6 na ya lutombo 9.
U na mimavhuḽu mingana?



Lerato u na mimavhuḽu ya 16. Ya malo ndi midala ngeno miṅwe yoṱhe i ya lutombo. Lerato u na mimavhuḽu mingana ya lutombo?



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



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

Tangedzelani nomboro i re khulwane kha 76 nga 1.

74	75	76	77	78

Tangedzelani nomboro i re khulwane kha 76 nga 2.

74	75	76	77	78

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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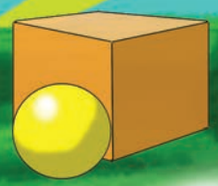
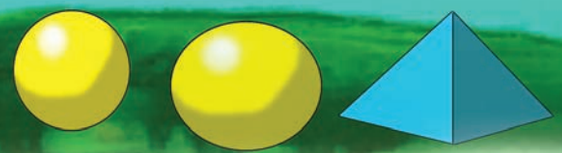




Deithi:

Nomboro zwadzo



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

Sipho	Lerato	John	Peter	Ann
				
	2	3		



Vha oleni vho ima nṱha ha phodiamu.



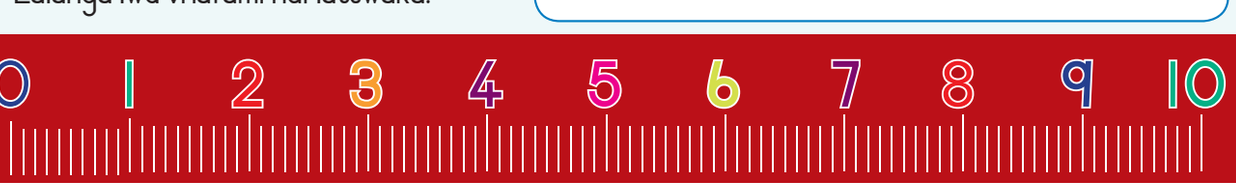
Ndi nnyi we a wana musuku? _____ | Ndi nnyi we a wana tseṱha? _____



Olani ndunzhedzo ya vhulungu nga heyi ndila:

Lulungu lwa u thoma ndi lwa lutombo.
Lulungu lwa vhuvhili ndi lutswuku.
Lulungu lwa vhuraru ndi ludala.
Lulungu lwa vhuṋa ndi lwa ṱaḓa.
Lulungu lwa vhuṱanu ndi lwa lutombo.
Lulungu lwa vhurathi ndi lutswuku.
Lulungu lwa vhusumbe ndi ludala.
Lulungu lwa vhumalo ndi lwa ṱaḓa.
Lulungu lwa vhuṱahe ndi lwa lutombo.
Lulungu lwa vhufumi ndi lutswuku.

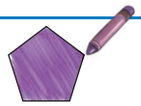
Ndunzhedzo ya vhulungu hanga.



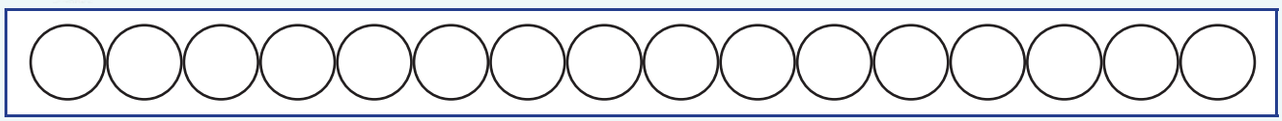


Lavhelesani thevhekano ya zwivhumbeo.
Kopololelani zwivhumbeo zwikhalani zwone kha thebulu.
Ro dzula ro ni itela ya u thoma.



Ndi tshivhumbeo tshifhio tshi re tsha:			
Vhuna		Vhusumbe	
Vhutanu		Vhutahe	
Vhuvhili		U fhedza	
Vhuraru		Vhurathi	

Itani zwi tevhelaho:



Khalarani tshitendeledzi tsha u thoma nga muvhala mutswuku.

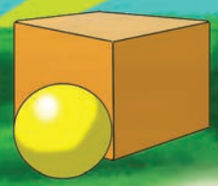
Khalarani tshitendeledzi tsha vhutanu nga muvhala wa tada.

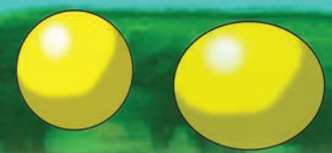
Khalarani tshitendeledzi tsha vhumalo nga muvhala wa lutombo.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



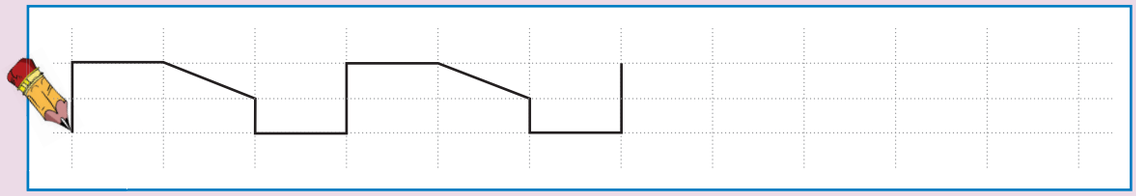


Deithi:

Zwithu na zwivhumbeo

Mvusuludzo:

Mvusuludzo: Fhedzisani phetheni.





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





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



0 1 2 3 4 5 6 7 8 9 10

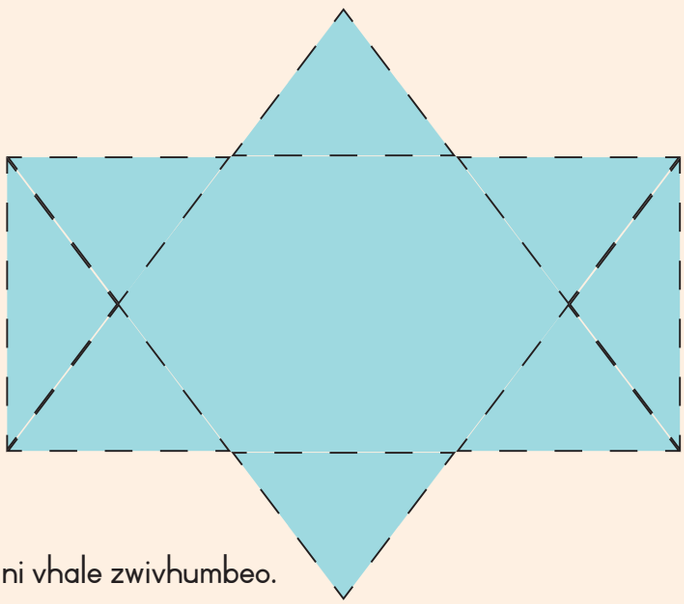


Tevhedzelani ipfi ni ole tshithu.

bogisi

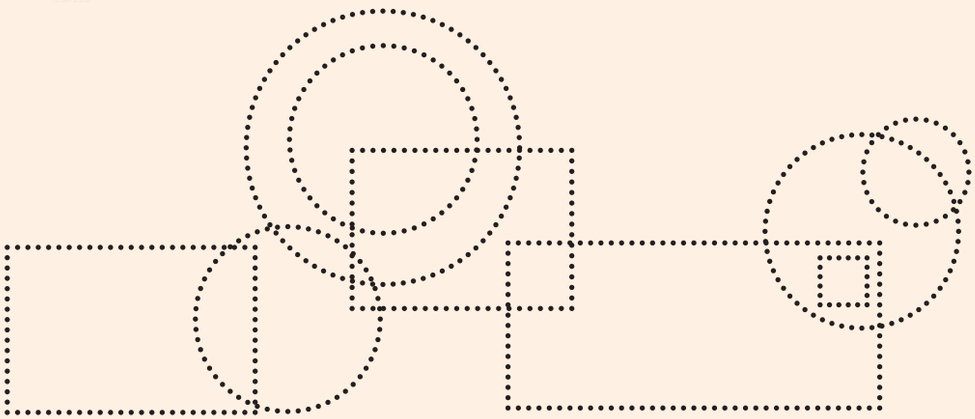
bola

Vhalani thiraiengele dzo̱the ni ṅwale nomboro.



Phindulo:

Tevhedzelani ni vhale zwivhumbeo.



Zwitendeledzi

Zwikwea

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11 12 13 14 15 16 17 18 19 20

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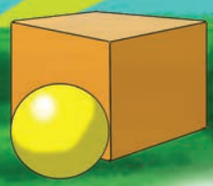
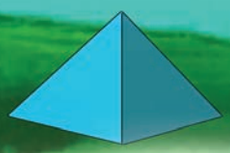




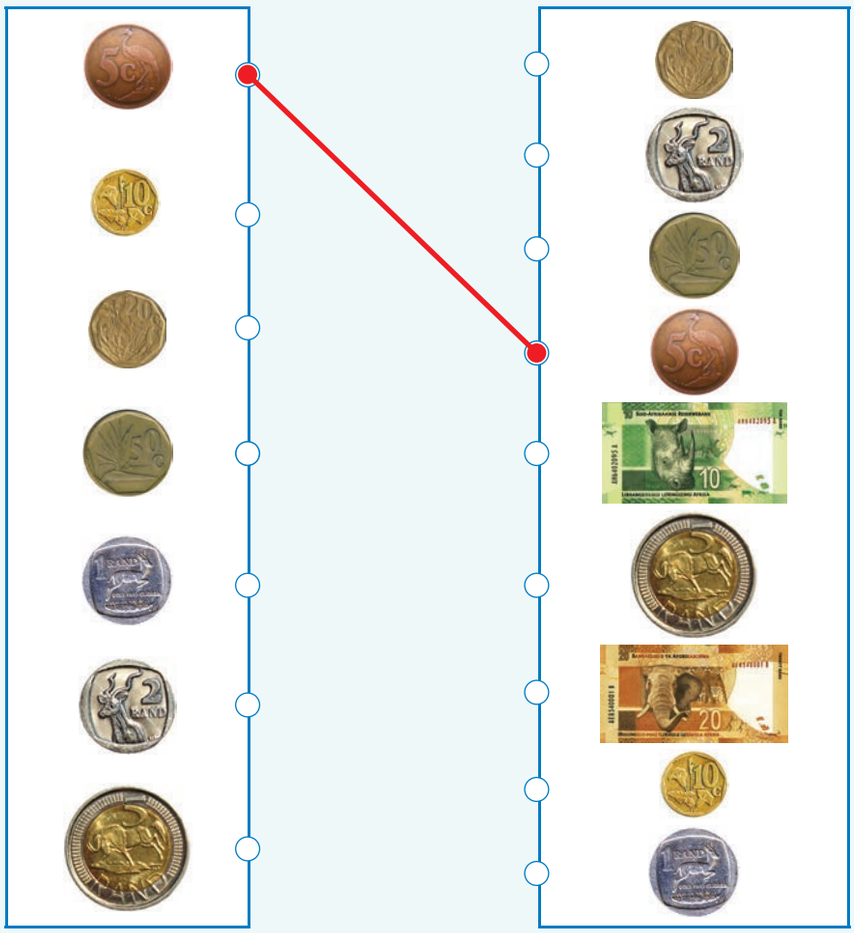


Deithi:

Tshelede



Ni nga livhanya khoini dzifhio?

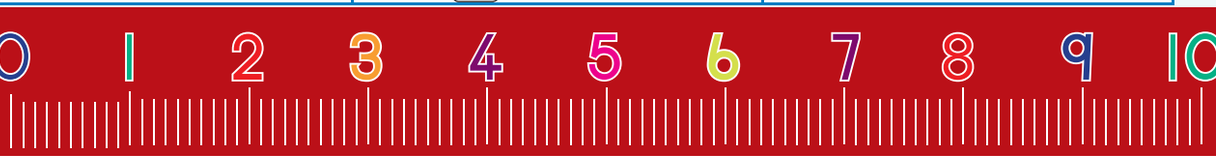




Itani thiki tshibogisini tshiṅwe na tshiṅwe tsini na khoini na noutu (ya mabammbiri) dzine dza nga ni fha zwi tevhelaho:

R10			
R20			
R15			







Ṱusani R2.




RI2 – R2 = RIO







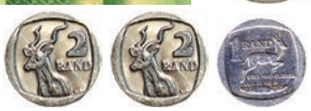


Ṱusani R5.




RI5 – R5 = RIO









Ni nga ola ṱhangano nngana dzo fhambananaho dza u ita R20?
Ro dzula ro ni itela ya u thoma.





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



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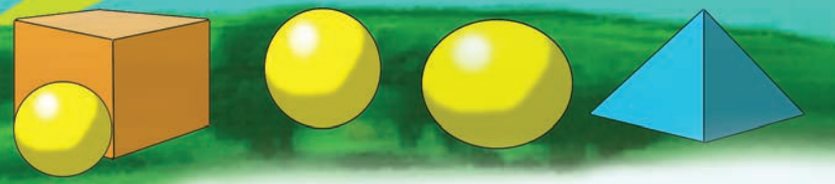


Deithi:

Tshelede inwe hafhu



Rekanyani.

R5	+ R7	
R9		
R7		
R4		



Rekanyani.

RI3	− R6	
RI5		
RI7		
RI4		



Ṅwalani phindulo.

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



Ndi ifhio khulwane (nnzhi)?
Tangedzelani phindulo yaṋu.

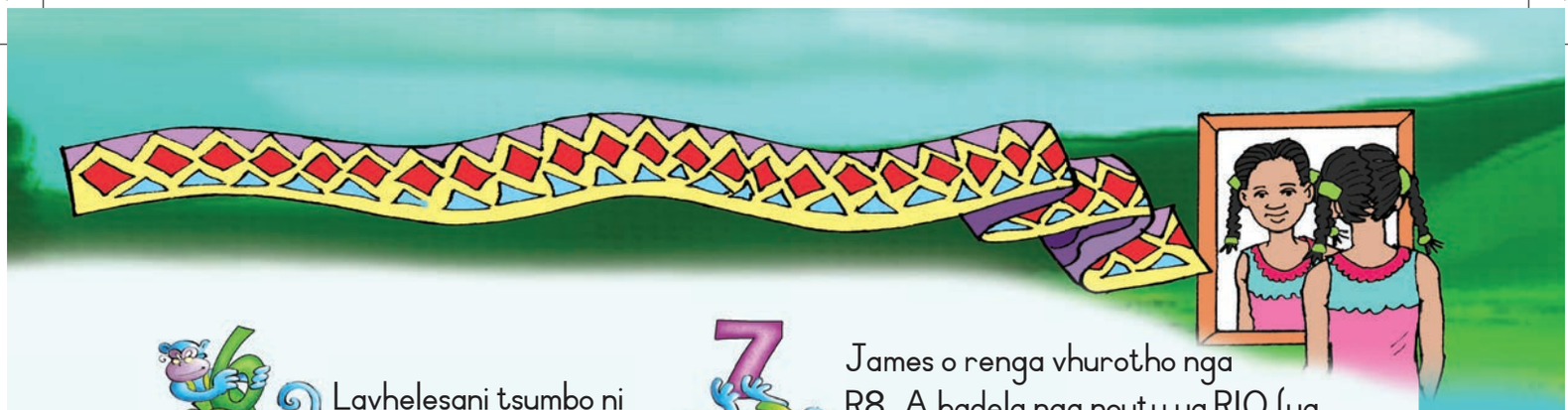
5c kana R5	
20c kana R20	
RI kana 50c	
R2 kana RI	
20c kana 50c	



Ṱanganyani nomboro dzi tshi buḓa kana dzi tshi tsitsa ni ṅwale phindulo.

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

0 1 2 3 4 5 6 7 8 9 10



Lavhelesani tsumbo ni fhedzise dzo salaho.

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

James o renga vhurotho nga R8. A badela nga noutu ya R10 (ya bammbiri). O wana tshintshi ya vhugai?

Mbudziso i ri mini?

_____

_____

Ṅwalani nomboro.

_____

Ṅwalani mbalo ni i shume.

_____

Mme a Busi vho renga muṅadzi wa R17. Vha badela nga no noutu mbili utu dza R10. Vho wana tshintshi ya vhugai?

Mbudziso i ri mini?

_____

_____

Ṅwalani nomboro.

_____

Ṅwalani mbalo ni i shume.

_____

Ḓuvha ḽa mabebo ḽa Judy ḽo vha nga Swondaha. O fhiwa R5 nga mukomama wawe, a fhiwa R2 nga khaladzi awe na R10 nga muzwala wawe. Vha na maḽegere mangana o ṱangana oṱhe?

Mbudziso i ri mini?

_____

_____

Ṅwalani nomboro.

_____

Ṅwalani mbalo ni i shume.

_____

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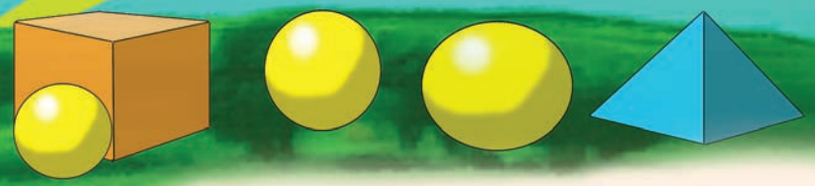
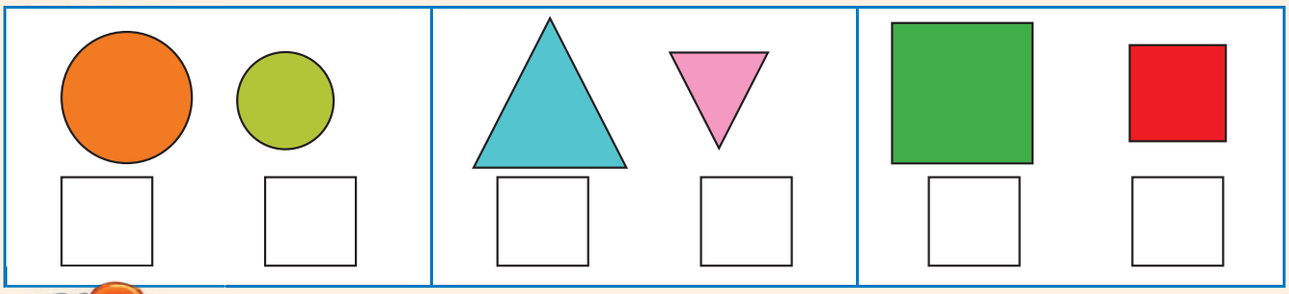


Deithi:

Zwivhumbeo zwa 2-D

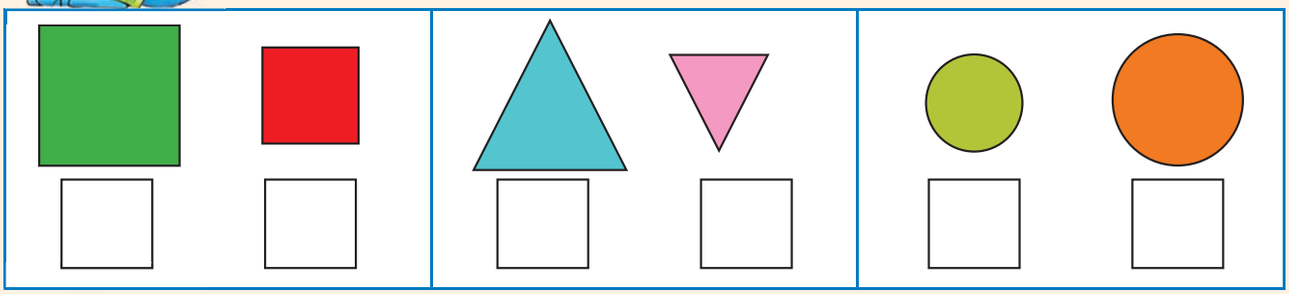


Itani thiki kha tshivhumbeo tshiṱukusa tshibuḽokoni tshiṅwe na tshiṅwe.





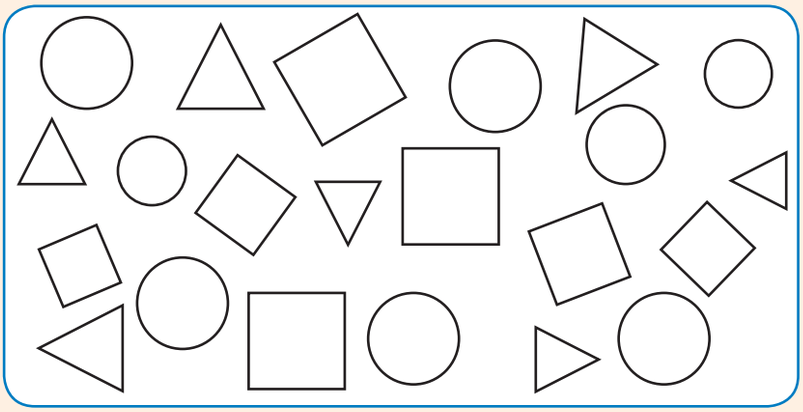
Itani thiki kha tshivhumbeo tshihulwanesa tshibuḽokoni tshiṅwe na tshiṅwe.





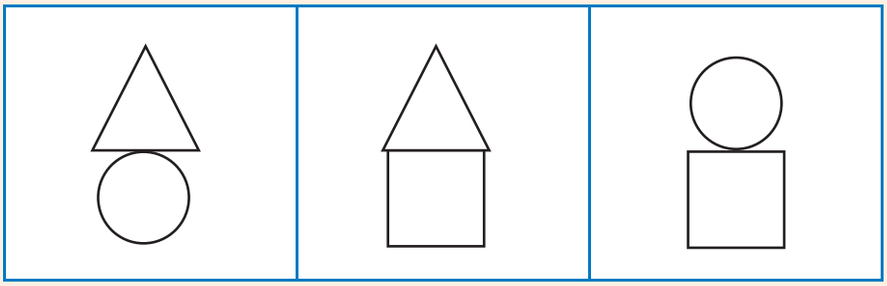
Khaḽarani:

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

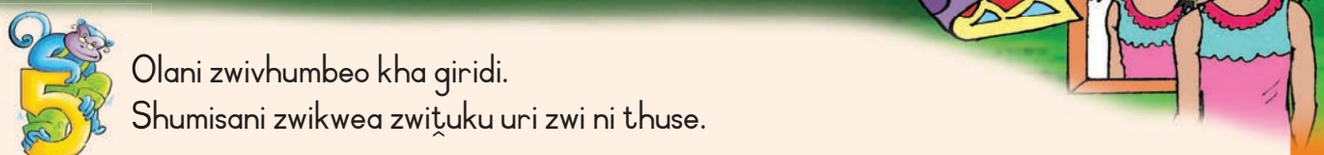




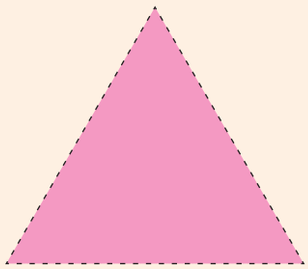
Itani tshifanyiso ni tshi shumisa zwivhumbeo. Ro thoma tshifanyiso tshiṅwe na tshiṅwe nga zwivhumbeo zwivhili.



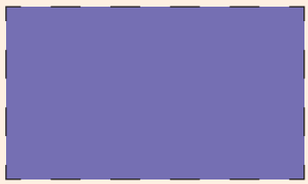


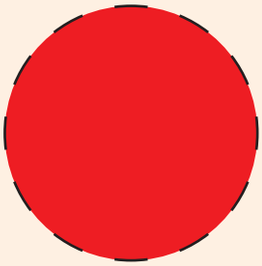


Olani zwivhumbeo kha giridi.
Shumisani zwikwea zwiṱuku uri zwi ni thuse.









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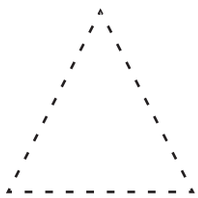
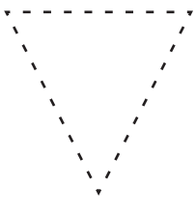
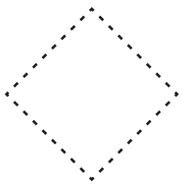
Zwivhumbeo zwa 2-D – vhurumbutswititi na vhurumbu ha zwipulumbu

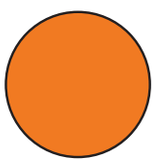
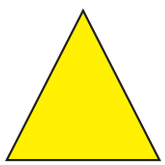


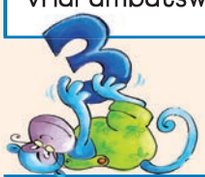
Tevhedzelani zwivhumbeo zwi tevhelaho.

 thiraiengele	 zwitendeledzi	 zwikwea
 zwitendeledzi	 thiraiengele	 zwikwea



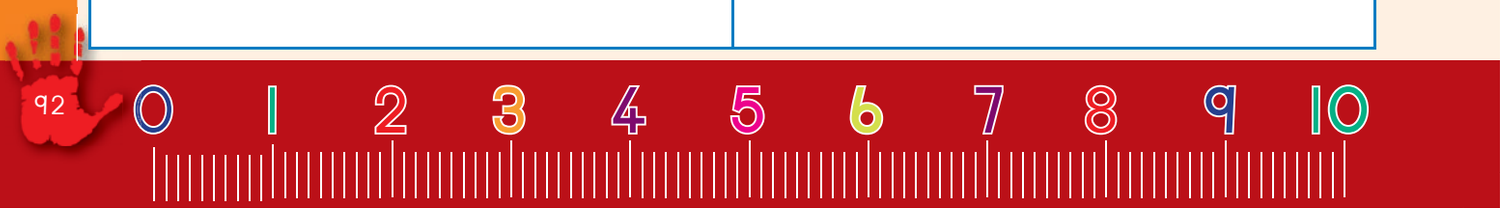
Itani thiki ni tshi sumbedza uri tshivhumbeo tshi na vhurumbutswititi kana vhurumbu ha zwipulumbu.

 vhurumbu ha zwipulumbu ☐ vhurumbutswititi ☐	 vhurumbu ha zwipulumbu ☐ vhurumbutswititi ☐	 vhurumbu ha zwipulumbu ☐ vhurumbutswititi ☐



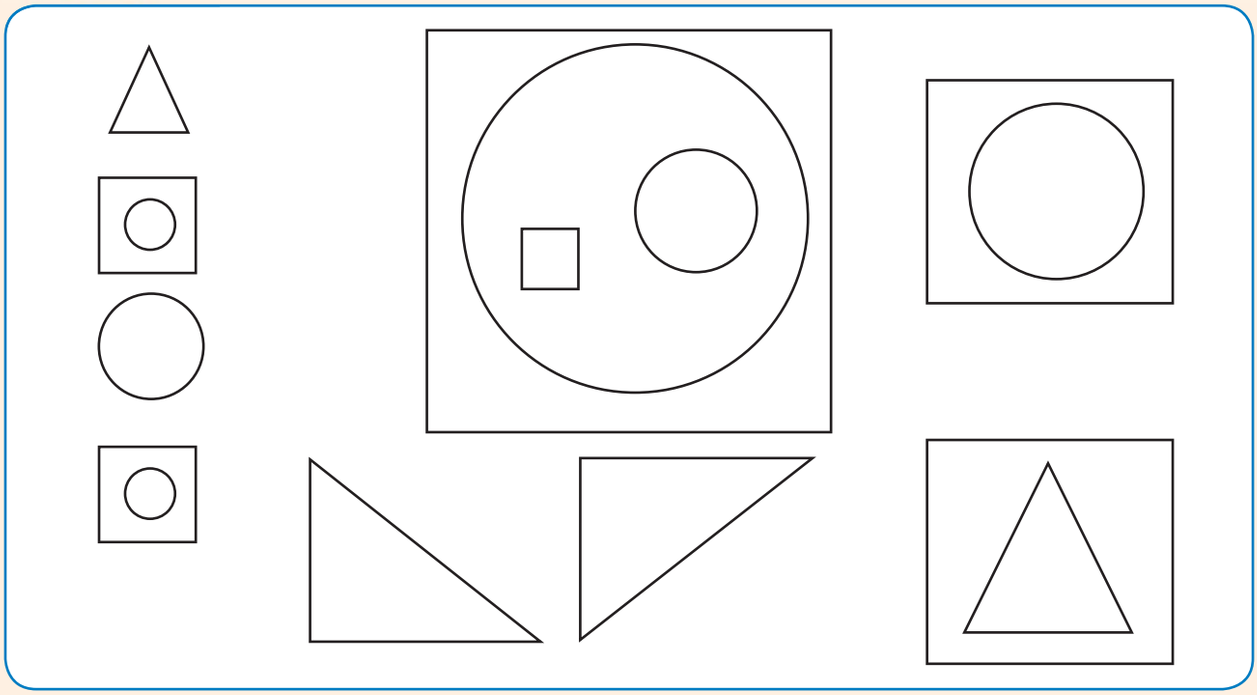
Olani tshivhumbeo nga:

vhurumbutswititi	vhurumbu ha zwipulumbu





Vhalani tshivhalo tsha zwitendeledzi, zwikwea na thiraiengele.



Zwitendeledzi ☐ Zwikwea ☐ Thiraiengele ☐



Wanani tshifanyiso kha magazini tsha tshithu tshi re na:

vhurumbu ha zwipulumbu	vhurumbutswititi



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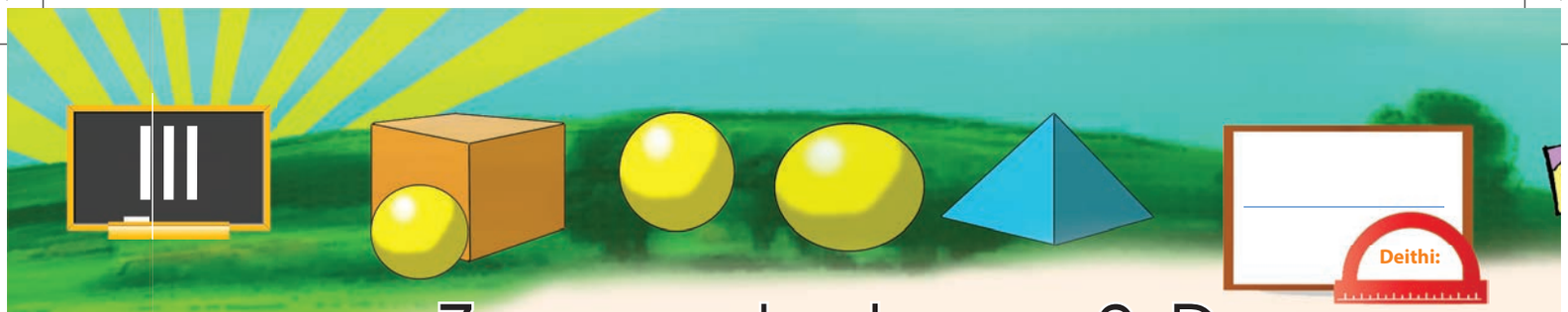
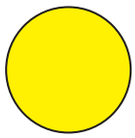
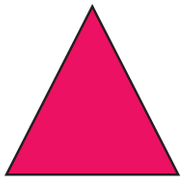
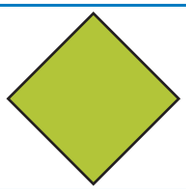
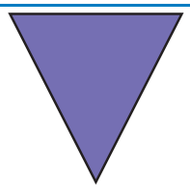
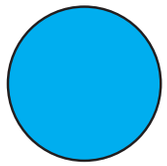
Date:



Zwiṅwe zwivhumbeo zwa 2-D

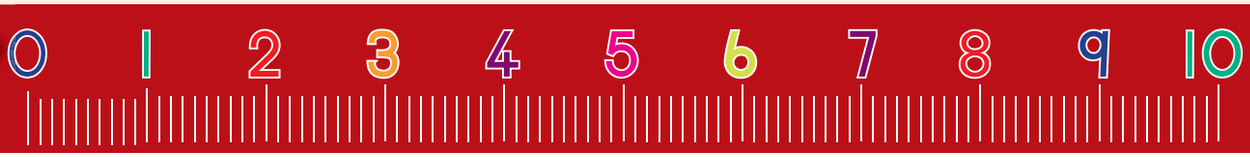


Bulani madzina a zwivhumbeo zwi tevhelaho:

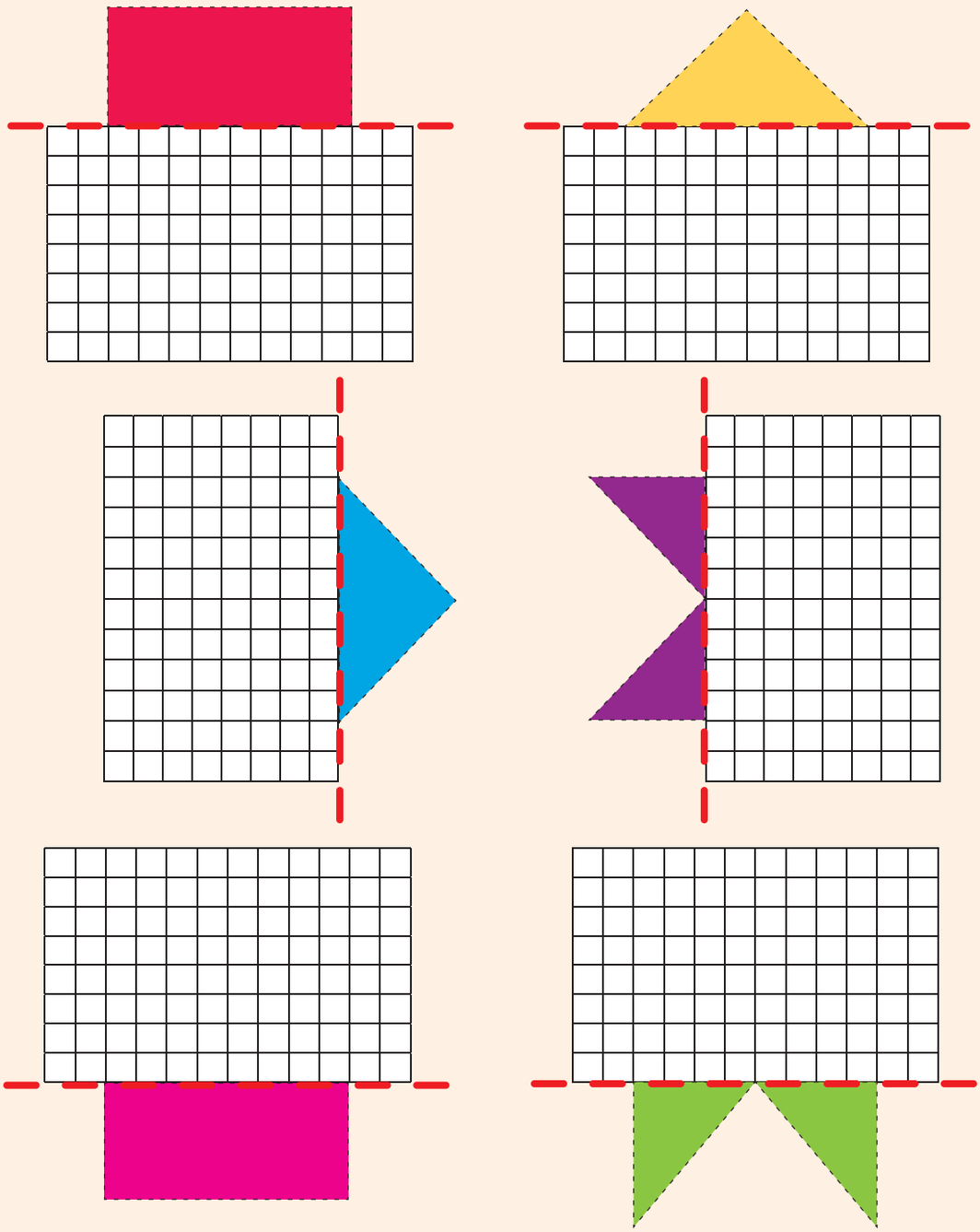


Olani tshifanyiso tshaṉu inwi muṉe ni tshi shumisa zwitendeledzi, thiraiengele na zwikwea fhedzi.





Olani iḽa iṅwe hafu ya tshivhumbeo tshiṅwe na tshiṅwe.
Shumisani tshikwea tshiṱuku uri tshi ni thuse.



Zwoṱhe zwi na vhurumbutswititi na vhurumbu ha tshipulumbu .

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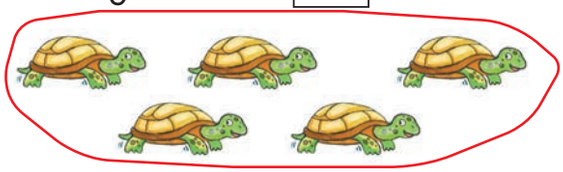
Deithi:

Zwigwada zwa ṱhanu u swika kha 20



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

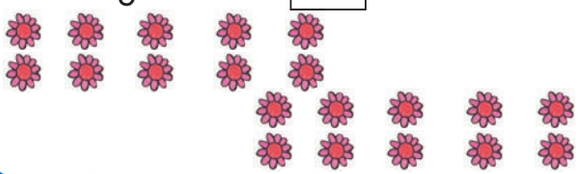
tshigwada tsha [1] tsha zwa 5



zwigwada zwa [ ] zwa zwa 5



zwigwada zwa [ ] zwa zwa 5



zwigwada zwa [ ] zwa zwa 5





Vhalani tshivhalo tsha minwe. Ṅwalani phindulo yaṋu.



5 + 5 + 5 = [ ]



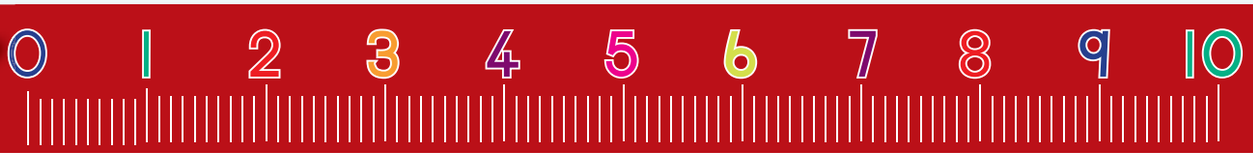
5 + 5 + 5 + 5 = [ ]



5 + 5 + 5 + 5 + 5 = [ ]

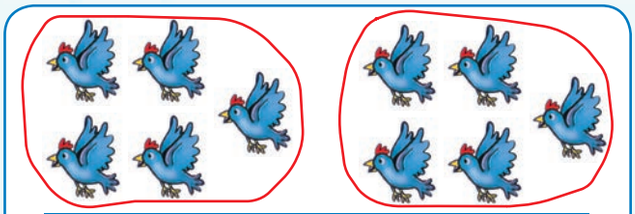


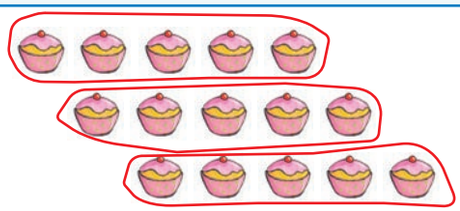
5 + 5 + 5 + 5 + 5 + 5 = [ ]

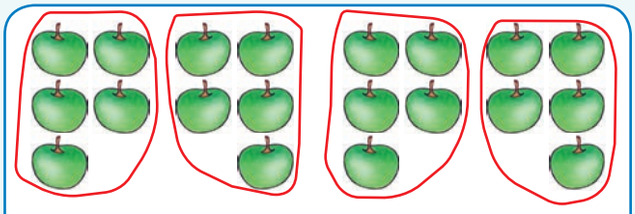


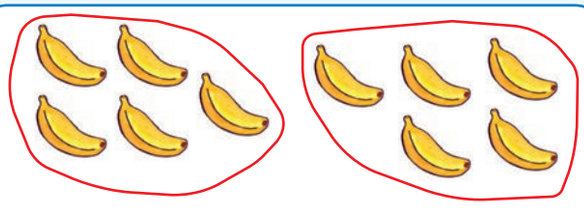


Ṅwalani fhungombalo ḽa zwi tevhelaho:









Fhindulani mbudziso.



Ni kona u vhona khoini nngana?

I ṅwaleni sa fhungombalo:

Ṅwalani nomboro dzi no khou ṱahela.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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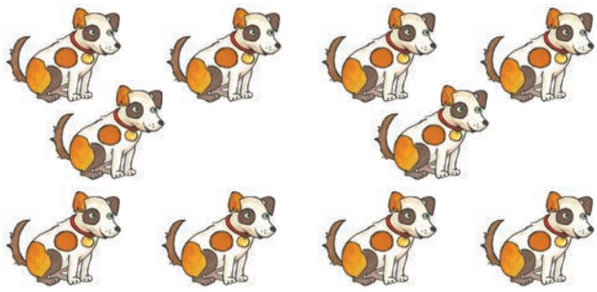
Deithi:

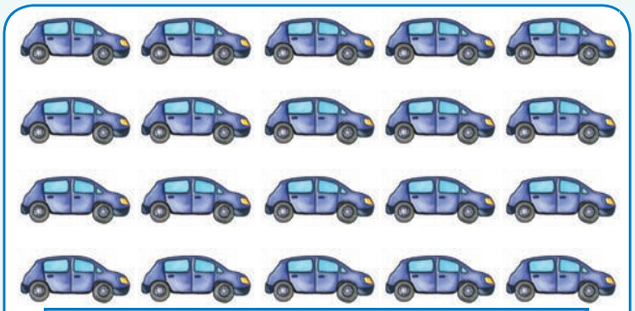
Ṱhanu – ndovhololo ya muṱanganyo wa u swika kha 20

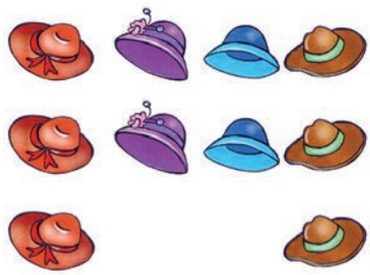


Itani zwigwada zwa zwiṱanuzwiṱanu ni ṅwale fhungombalo.











Olani zwigwada zwa zwivhumbeo ni tshi sumbedza mafhungombalo.

5 + 5 + 5 = ☐

5 + 5 + 5 + 5 = ☐

0 1 2 3 4 5 6 7 8 9 10



Ṅwalani fhungombalo ḽa zwi tevhelaho.

5 + 5 = ☐

☐

☐

☐

Ndi lungana hune na vhala nomboro ṱhanu? _____

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

Hu na zwanḓa zwa 3 kha fasiṱere. Hu na minwe mingana kha fasiṱere?
Olani tshifanyiso ni ṅwale fhungombalo.

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Date:

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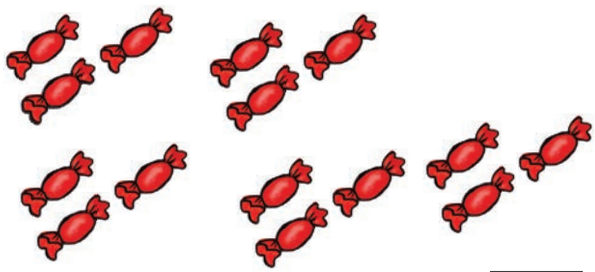
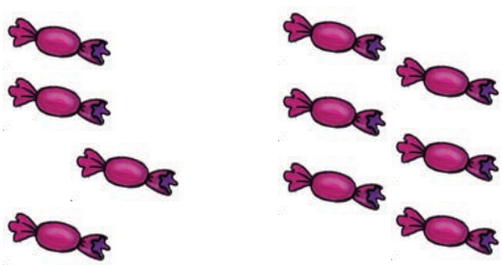
Deithi:

U kovhekana u swika kha 20

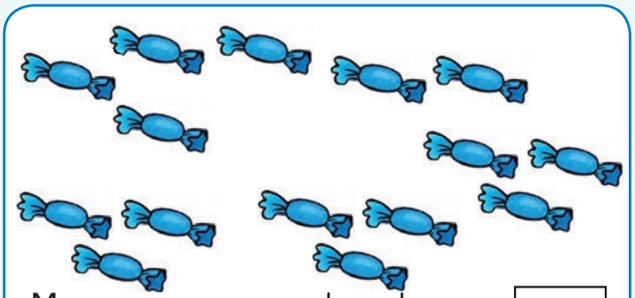
Kovhelani khonani ṱhanu maḽegere.
Muṅwe na muṅwe wavho u ḓo wana maḽegere mangana?



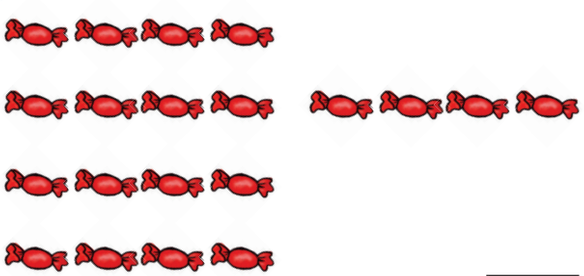
Muṅwe na muṅwe wavho u ḓo wana maḽegere a ☐



Muṅwe na muṅwe wavho u ḓo wana maḽegere a ☐



Muṅwe na muṅwe wavho u ḓo wana maḽegere a ☐

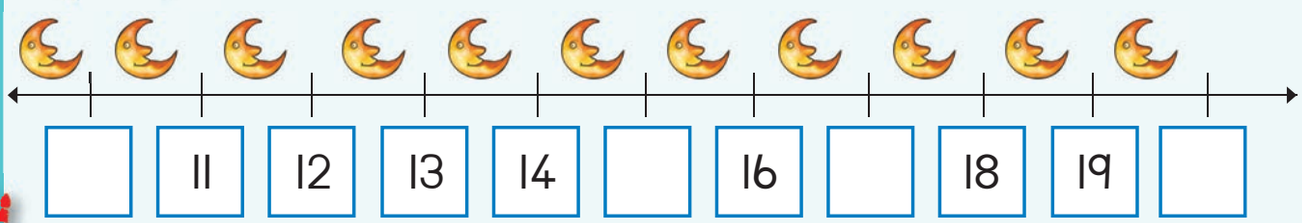


Muṅwe na muṅwe wavho u ḓo wana maḽegere a ☐

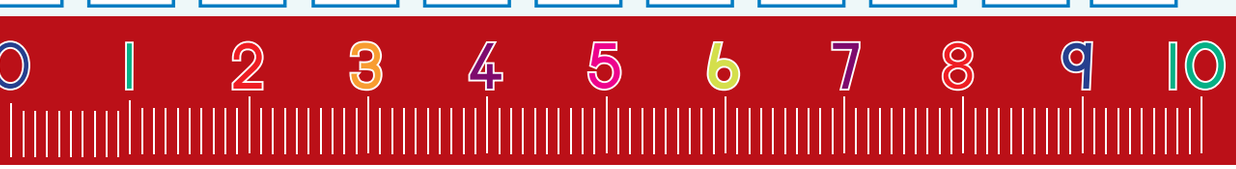
Khaḽarani nyandiso dza ṱhanu.

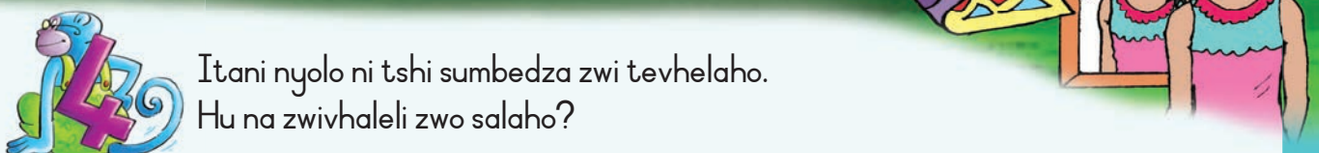
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Ṅwalani nomboro dzi no khou ṱahela.



☐	11	12	13	14	☐	16	☐	18	19	☐





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

Kovhelani vhana vhaṱanu zwivhaleli zwa 10. Ho sala zwivhaleli zwa ☐.	Kovhelani vhana vhaṱanu zwivhaleli zwa 6. Ho sala zwivhaleli zwa ☐.
Kovhelani vhana vhaṱanu zwivhaleli zwa 11. Ho sala zwivhaleli zwa ☐.	Kovhelani vhana vhaṱanu zwivhaleli zwa 16. Ho sala zwivhaleli zwa ☐.



Ṅwalani fhungombalo ḽa zwi tevhelaho:



5 + 5 = ☐



☐



☐



☐



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

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Deithi:

Phetheni dza nomboro – ṱhanu u swika kha 100



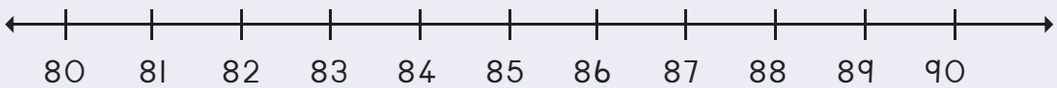
Fhedzisani phetheni nga u khaḽara nyandiso dza ṱhanu.

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

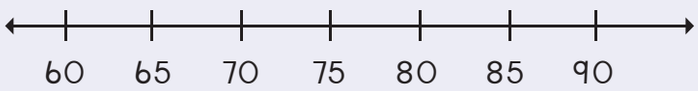


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

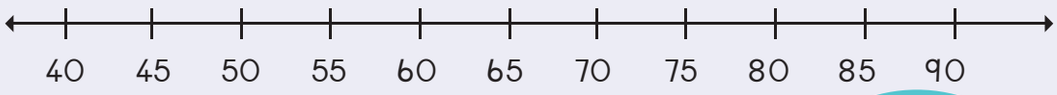
86, 88, 90



70, 75, 80



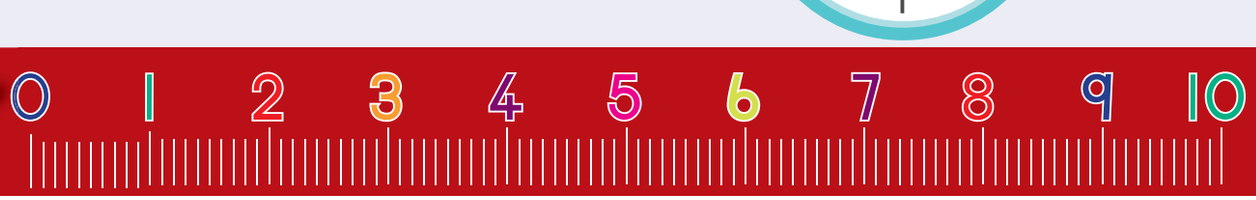
55, 60, 65, 70

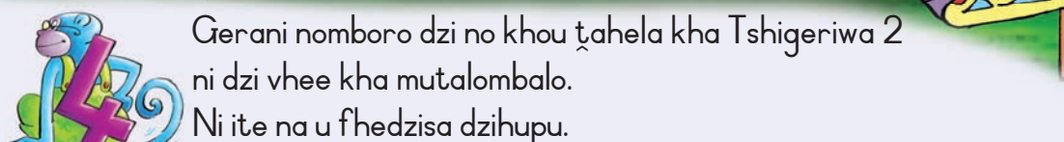




Shumisani watshi kha u sumbedza u vhala miminete nga miṱanumiṱanu.

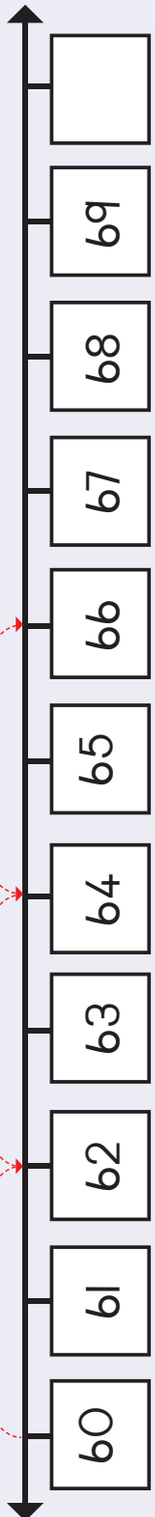


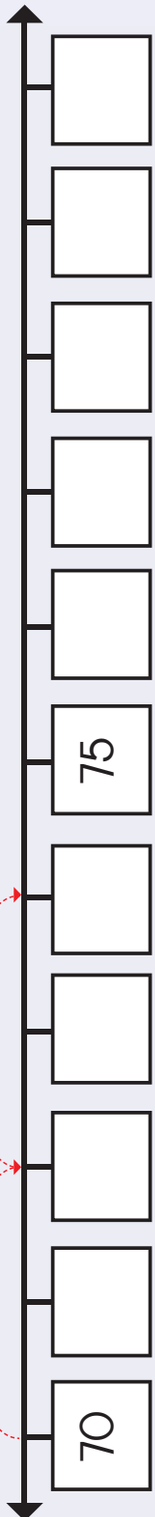


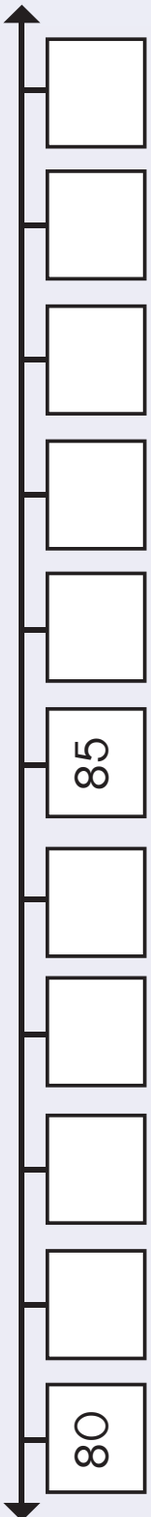




Gerani nomboro dzi no khou ṱahela kha Tshigeriwa 2 ni dzi vhee kha mutalombalo.
Ni ite na u fhedzisa dzihupu.









Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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Deithi:

Vhuimo na mbonalo



Livhanyani phanḓa na murahu ha tshipuka tshiṅwe na tshiṅwe.

Phanḓa	Murahu
	
	
	
	



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

↑
↓
←
→

→	←	↑	↓
↑	↓	→	←
→	←	↑	↓
↑	←	↓	→

0 1 2 3 4 5 6 7 8 9 10



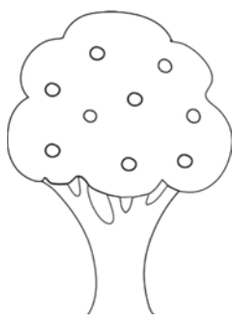
Khaḽarani mbonalo yone.

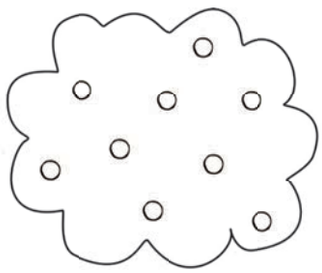
		
Mbonalo ya nga nṱha	Mbonalo ya nga nṱha	Mbonalo ya nga murahu
Mbonalo ya nga matungo	Mbonalo ya nga matungo	Mbonalo ya nga matungo
Mbonalo ya nga phanḓa	Mbonalo ya nga phanḓa	Mbonalo ya nga phanḓa

Tshimange tshi ngafhi?
Khaḽarani phindulo i re yone.

		
Nga murahu	Nga murahu	Nga murahu
Nga phanḓa	Nga phanḓa	Nga phanḓa
Tsini na	Tsini na	Tsini na

Lavhelesani zwifanyiso zwa muri.
Khaḽarani mbonalo ya nga nṱha.





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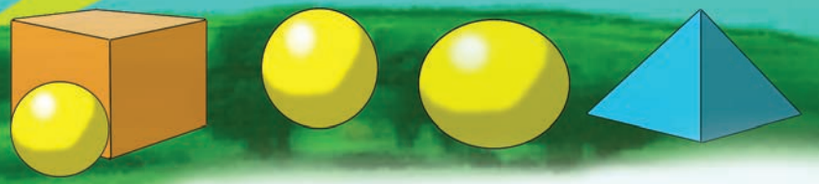
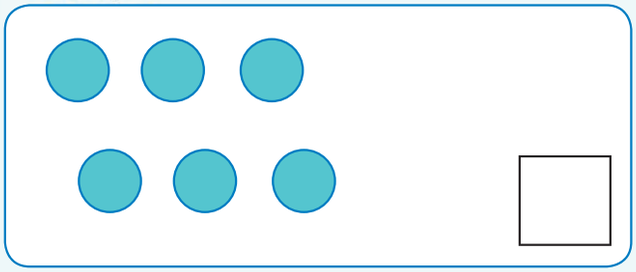


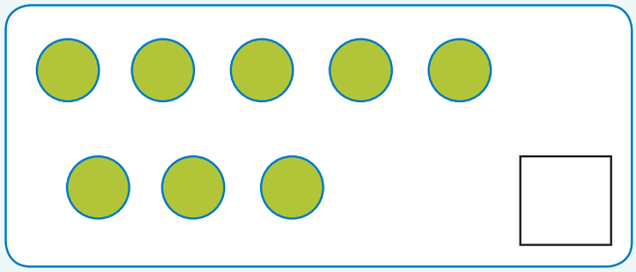
Deithi:

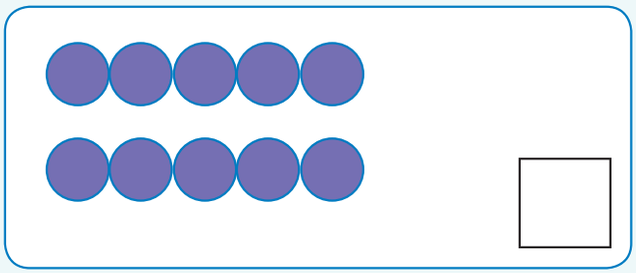
Zwigwada zwa mbili u swika kha 20

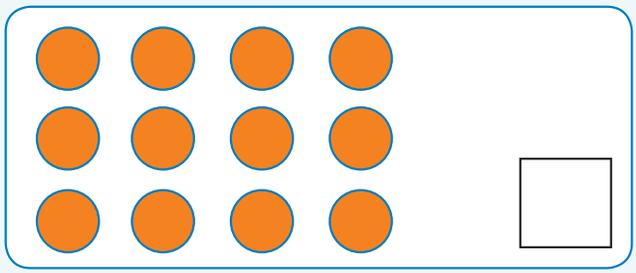


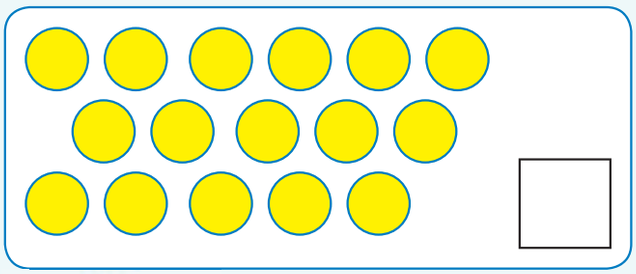
Itani zwigwada zwa zwivhilizwivhili. Ṅwalani uri hu na zwigwada zwingana.

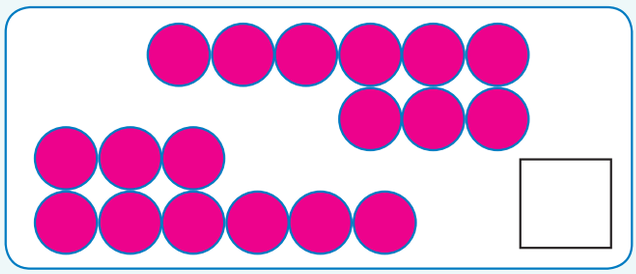






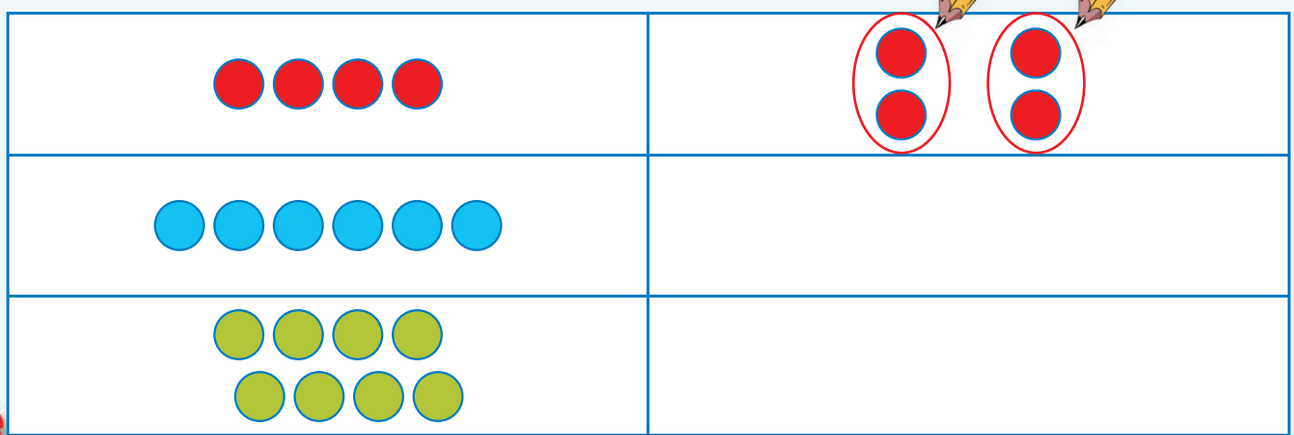


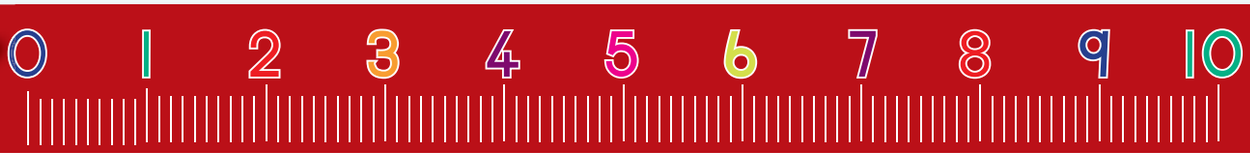


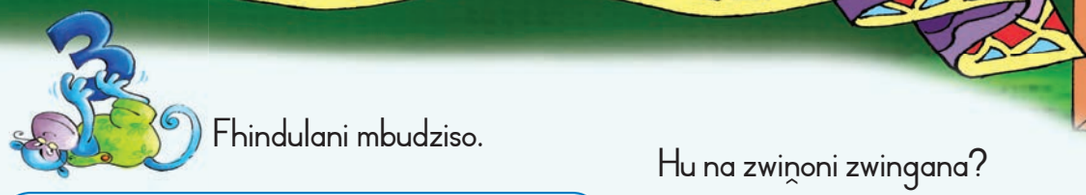




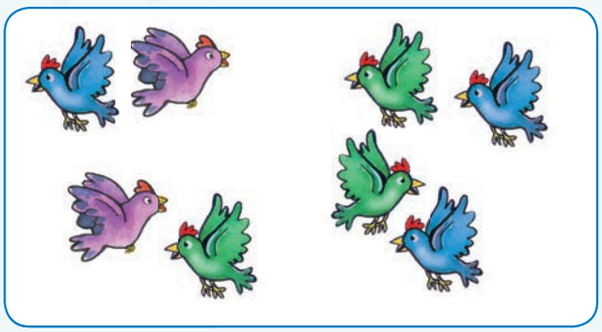
Itani zwigwada zwa zwivhili. Olani zwigwada.







Fhindulani mbudziso.



Hu na zwiṋoni zwingana?

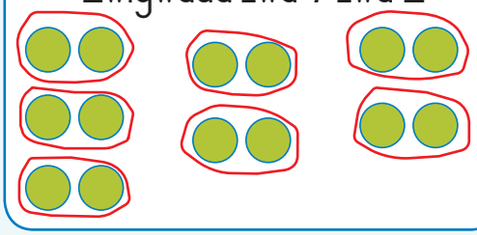
Ni nga ita zwigwada zwingana zwa zwivhili?

Ṅwalani fhungombalo.



Itani zwitendeledzi ni tshi vhumba zwi tevhelaho.

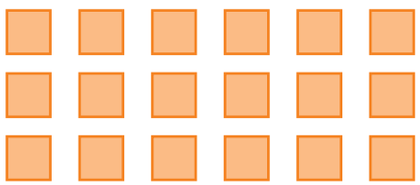
Zwigwada zwa 7 zwa 2



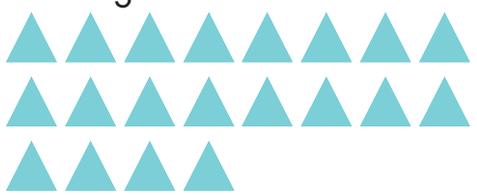
Zwigwada zwa 8 zwa 2



Zwigwada zwa 9 zwa 2

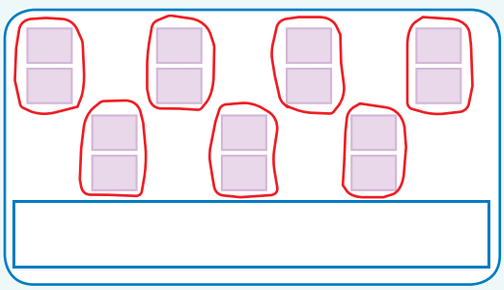


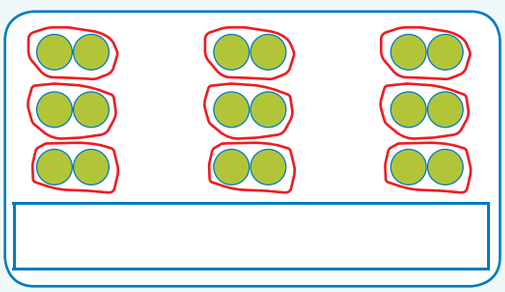
Zwigwada zwa 10 zwa 2

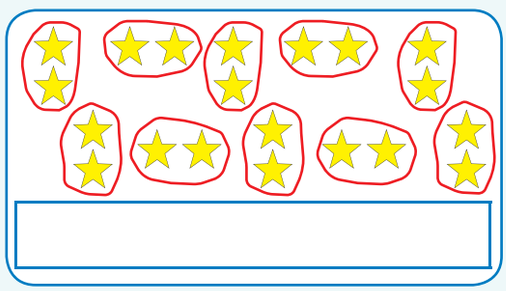


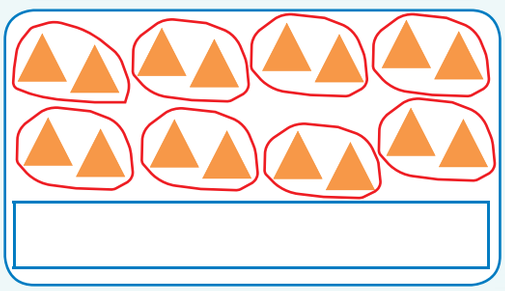


Ṅwalani fhungombalo ḽa zwi tevhelaho.











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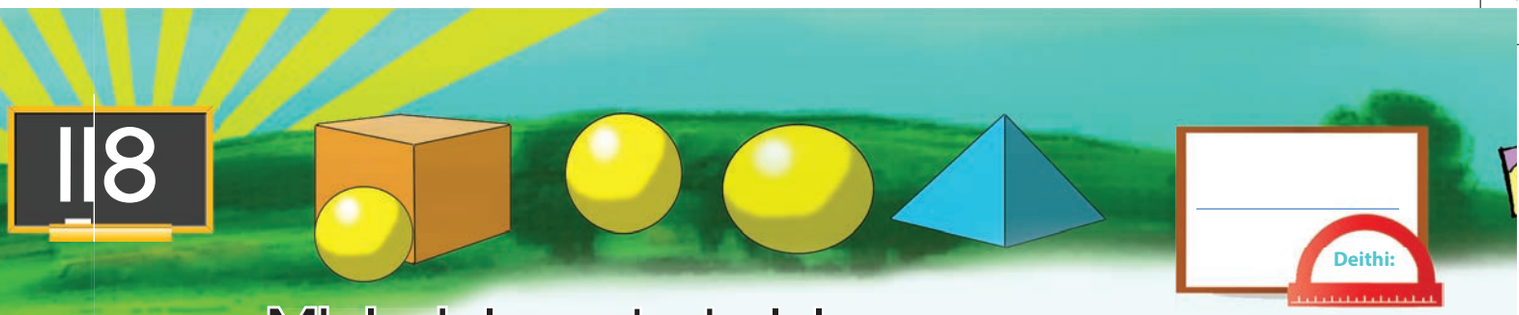
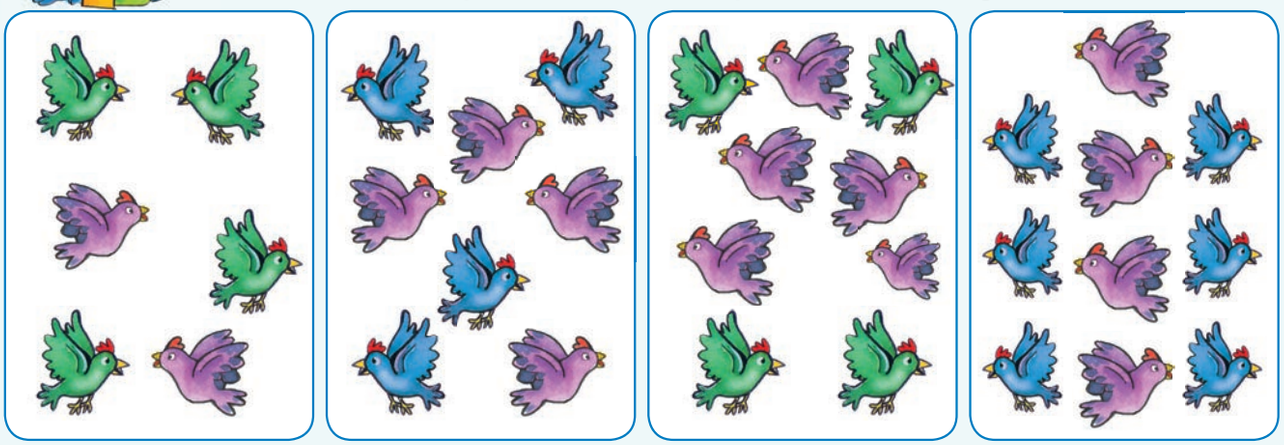


Mbilimbili – ndovhololo ya muṱanganyo u swika kha 20



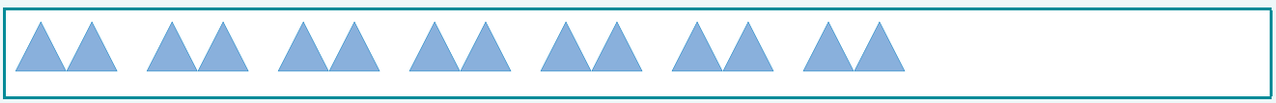
Hu na milenzhe mingana? Ṅwalani fhungombalo ḽa tshifanyiso tshiṅwe na tshiṅwe.





Olani zwivhumbeo zwa zwi tevhelaho:

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

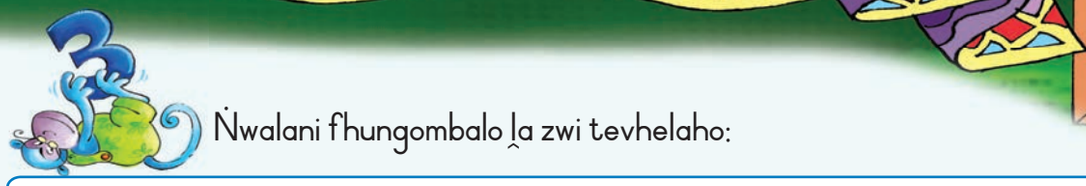


2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 =

2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 =

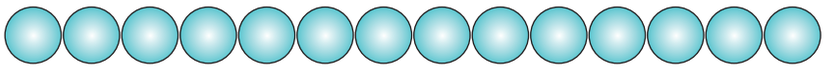
2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 =



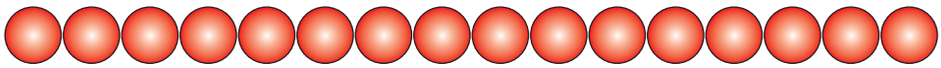




Ṅwalani fhungombalo ḽa zwi tevhelaho:



2 + 2 + 2 + 2 + 2 + 2 + 2 = ☐



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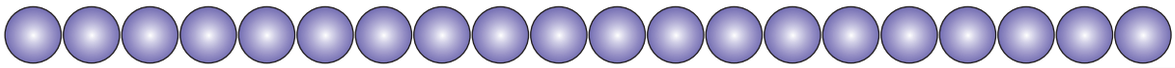

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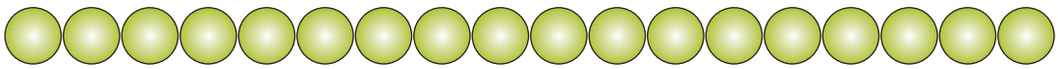


☐



Khaḽarani nyandiso dza mbili.

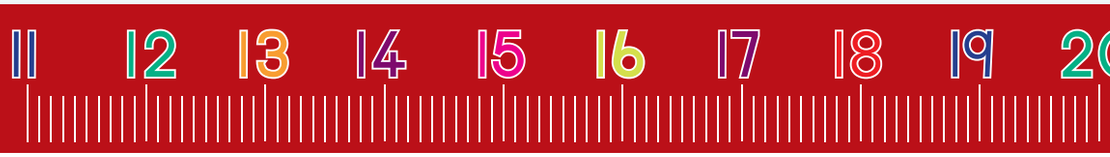
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20



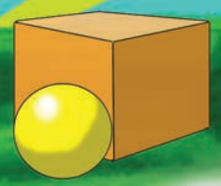
Ndi na phakethe dza 6 dzi re na maḽegere a 2 kha iṅwe na iṅwe.
Ndi na maḽegere mangana? Olani tshifanyiso ni ṅwale fhungombalo.

Ndi na maḽegere a ☐.





119



Deithi:

Phetheni dza nomboro – mbili u swika kha 100



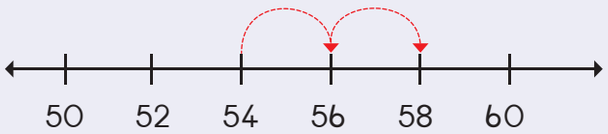
Fhedzisani phetheni nga u khaḽara nomboro dzone.

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

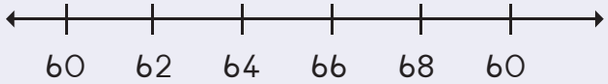


Olani dzihupu ni tshi sumbedza zwi tevhelaho:

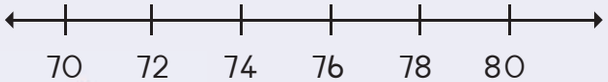
54, 56, 58



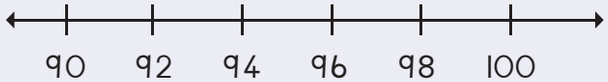
64, 66, 68



74, 76, 78



94, 96, 98



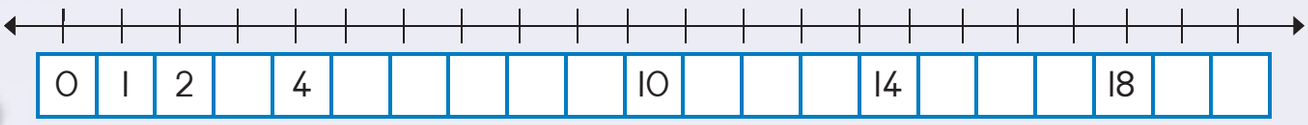


Ṅwalani nomboro dzi no khou ṱahela. Khaḽarani phetheni: 2, 4...

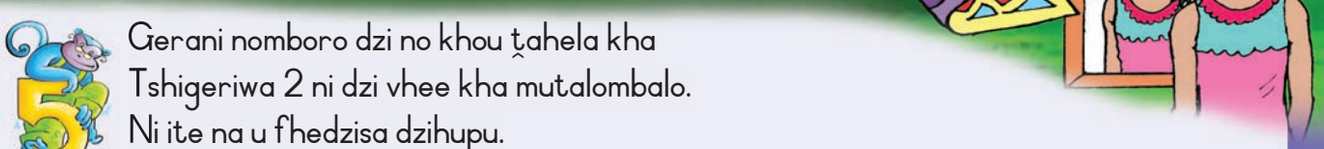
1		3				7			10
11						17			20



Fhedzisani mutalombalo.





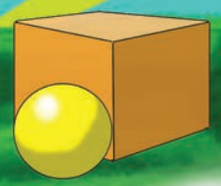


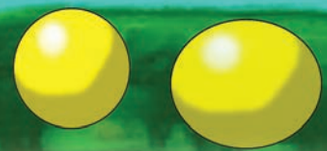
Gerani nomboro dzi no khou ṱahela kha Tshigeriwa 2 ni dzi vhee kha mutalombalo. Ni ite na u fhedzisa dzihupu.

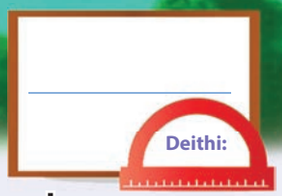
	69		67		65		63		61	60
	79		77		75		73		71	70
	89		87		85		83		81	80
	99		97		95		93		91	90

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



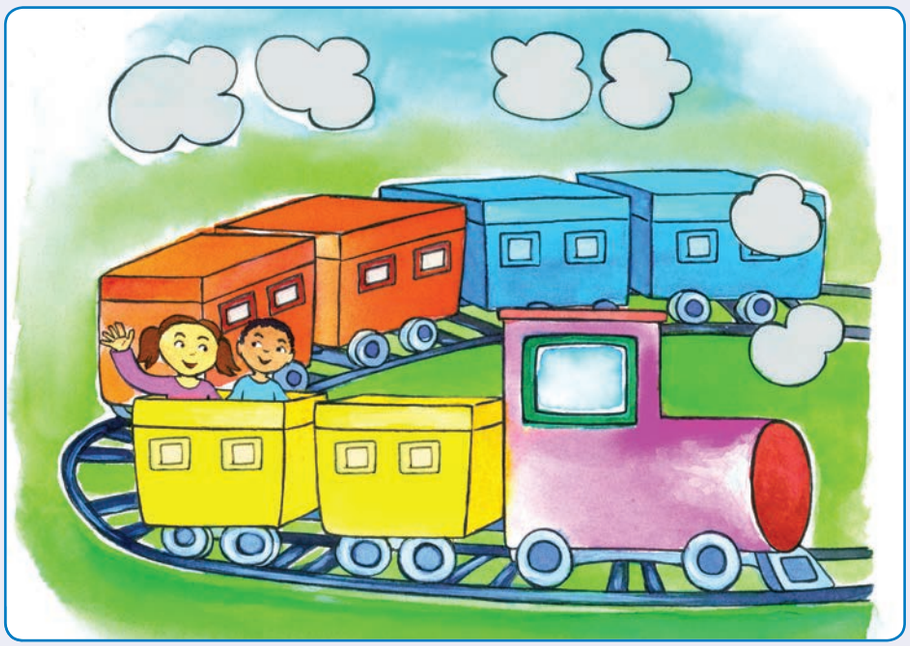




Phetheni dza nomboro – mbili u swika kha 100



Ni a kona u vhana phetheni ya zwivhilizwivhili?

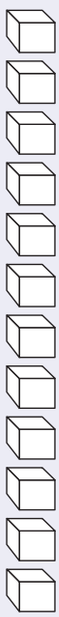


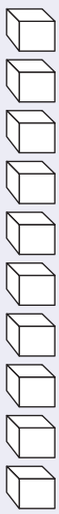


Khaḽarani zwibuḽoko ni tshi sumbedza zwigwada zwa zwivhilizwivhili.
Vhalani uri hu na zwigwada zwingana.

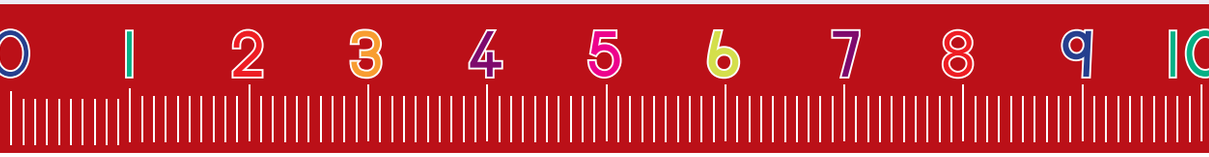


4



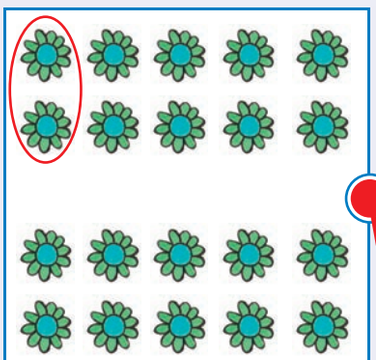


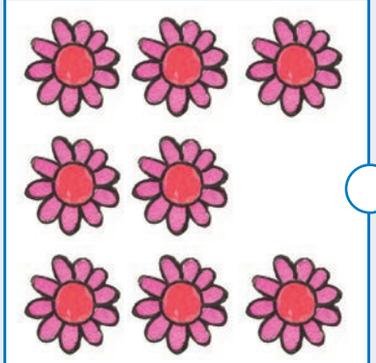


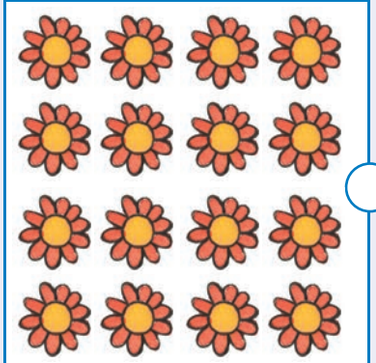


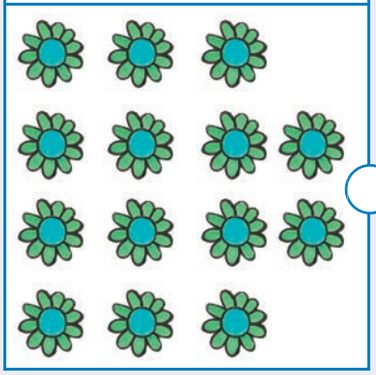


Livhanyani zwigwada zwa zwivhilizwivhili na fhungombalo nge na tala mutalo.









$2 + 2 + 2 + 2 = 8$

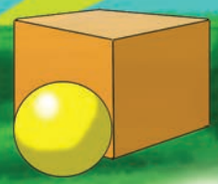
$2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$

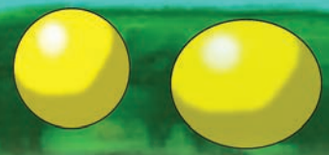
$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20$

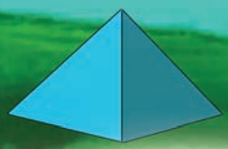
$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20





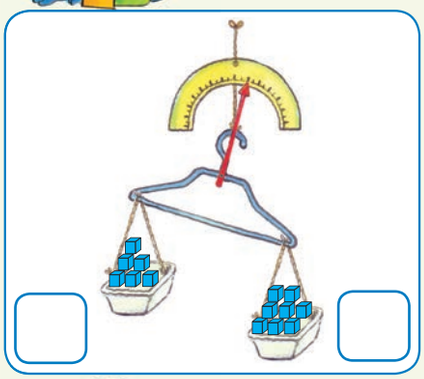


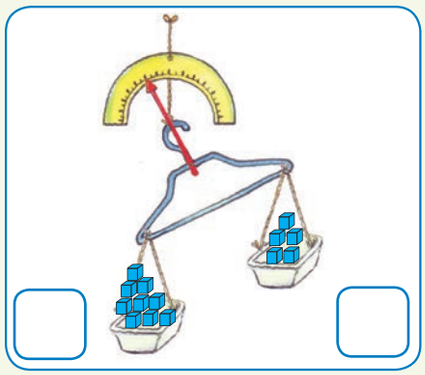
Deithi:

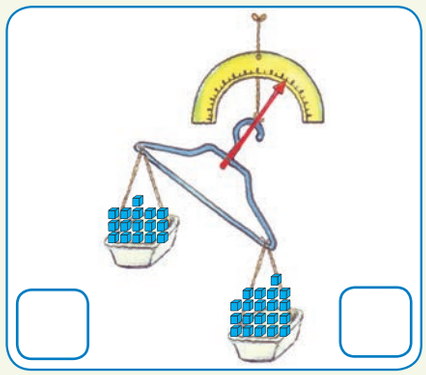
Tshileme



Ṅwalani uri hu na zwibuḽoko zwingana kha tshifaredzi tshiṅwe na tshiṅwe.
Tangedzelani tshifaredzi tshi no lemelesa.

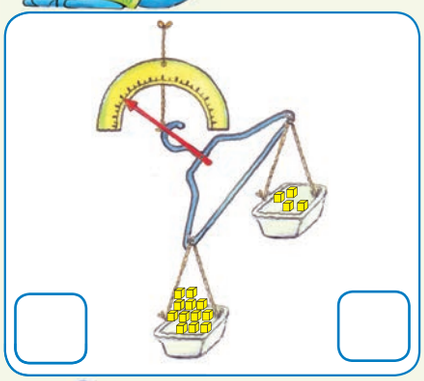


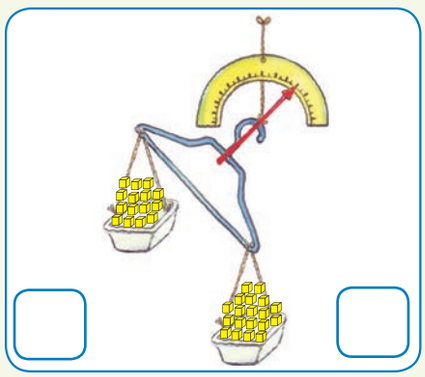


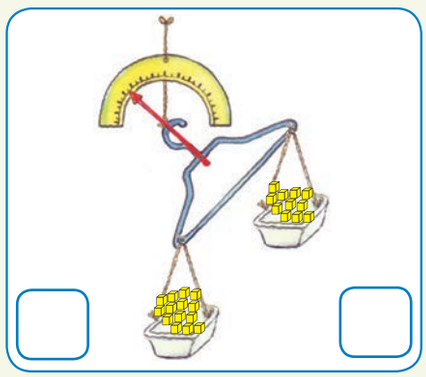




Ṅwalani uri hu na zwibuḽoko zwingana kha tshifaredzi tshiṅwe na tshiṅwe.
Tangedzelani tshifaredzi tshi no leluwesa.





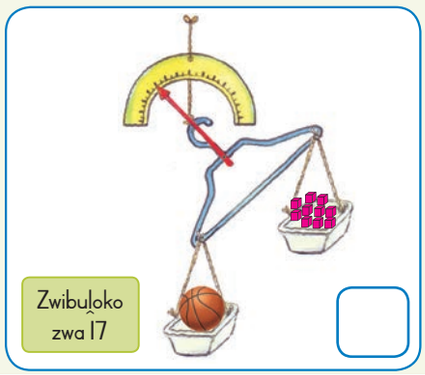




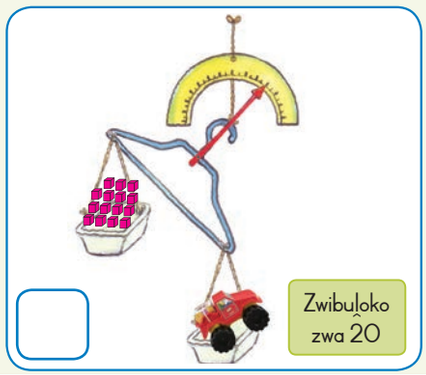
Vhalani uri hu na zwibuḽoko zwingana. Ni wane uri hu ṱoḓea zwiṅwe zwibuḽoko zwingana zwa u engedza nga nṱha u itela u baḽantsa thoyi. Ro ni vhudza uri thoyi i lemela zwibuḽoko zwingana.



Zwibuḽoko zwa 12



Zwibuḽoko zwa 17

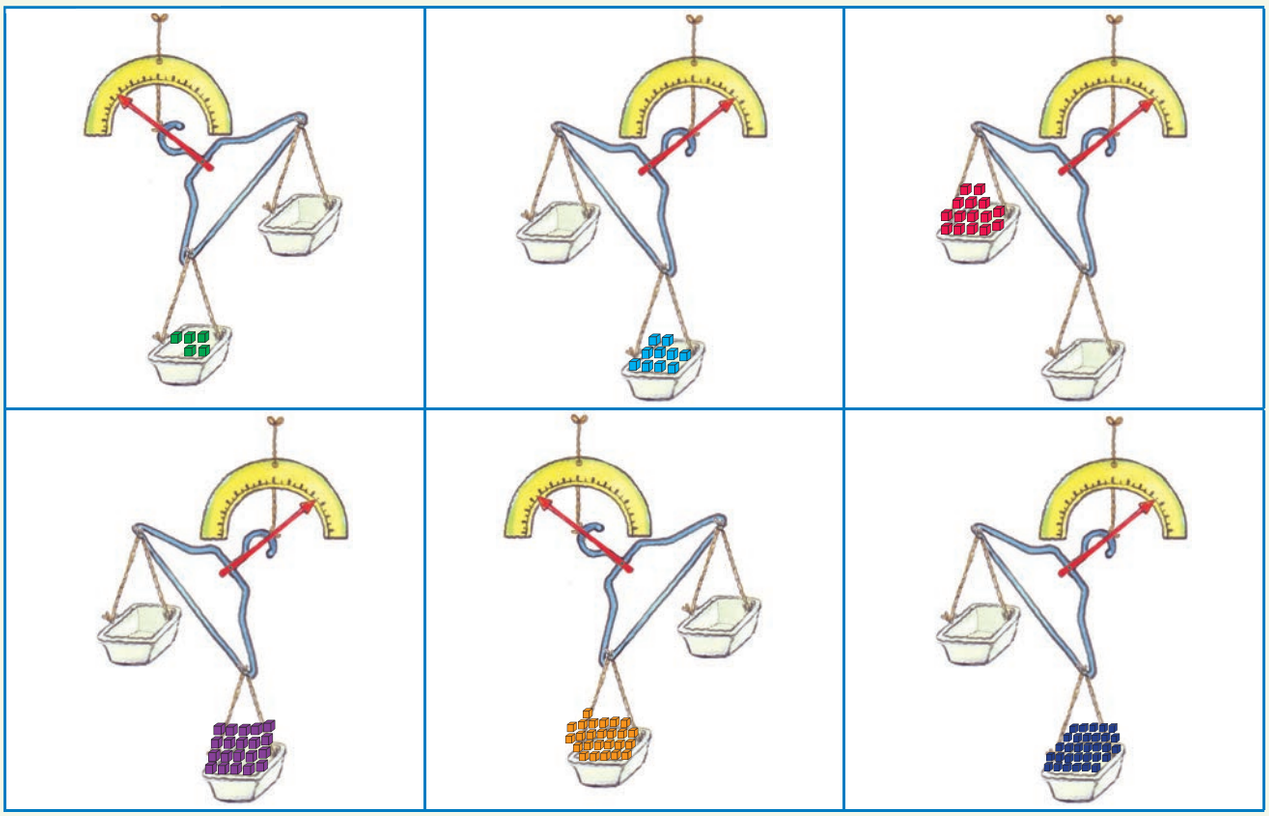


Zwibuḽoko zwa 20

0 1 2 3 4 5 6 7 8 9 10



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

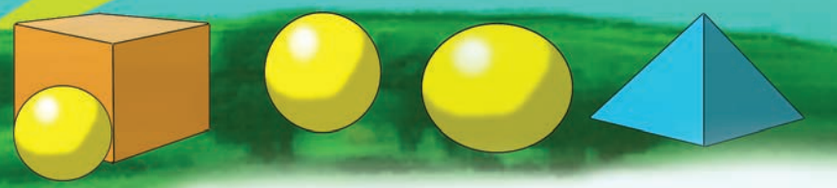


Shumisani zwithu zwa 5 zwi re disikeni yaṋu. Thomani nga u anganyela uri zwi lemela vhugai ni kole u zwi kala kha tshikalo kana tshikalotshilinganyisi u itela u vhona arali nyanganyelo yaṋu i yone.

Olani tshithu	Humbulelani	Tshileme	Phambano
	zwibuḽoko zwa___	zwibuḽoko zwa ___	___ − ___ = ____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



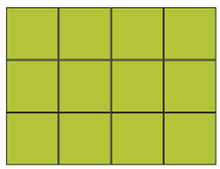
Deithi:

U inga kavhili

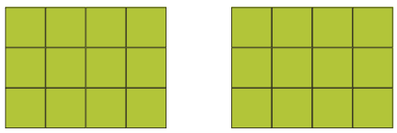


Fhindulani zwi tevhelaho:

Hu na zwikwea zwingana?

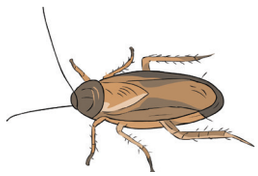


Hu na zwingana zwino?

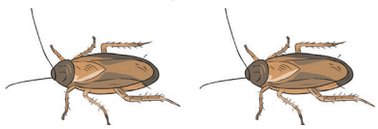


Ri ri 12 yo ingwa kavhili ndi 24.

Hu na milenzhe mingana?



Hu na milenzhe mingana zwino?



Ri ri 6 yo ingwa kavhili ndi

Hu na zwikitili zwingana?



Hu na zwikitili zwingana zwino?



Ri ri 10 yo ingwa kavhili ndi

Hu na maḓuvha mangana kha vhege?

S	M	T	W	T	F	S

Hu na maḓuvha mangana kha vhege mbili?

S	M	T	W	T	F	S

Ri ri 7 yo ingwa kavhili ndi

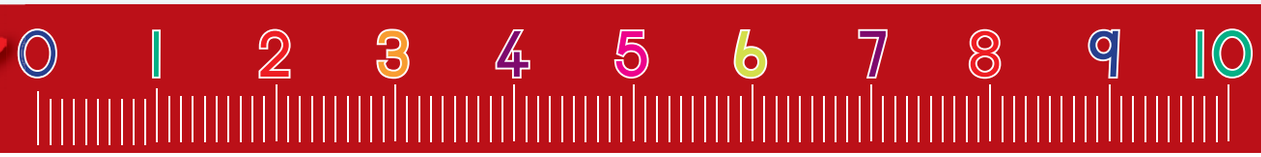
Hu na khirayoni nngana?



Hu na khirayoni nngana zwino?



Ri ri 8 yo ingwa kavhili ndi





Ṅwalani phindulo.

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



Ṅwalani phindulo.

Nyingakavhili ya mbili ndi	iṇa
Nyingakavhili ya raru ndi	
Nyingakavhili ya iṇa ndi	
Nyingakavhili ya ṱhanu ndi	
Nyingakavhili ya rathi ndi	
Nyingakavhili ya sumbe ndi	

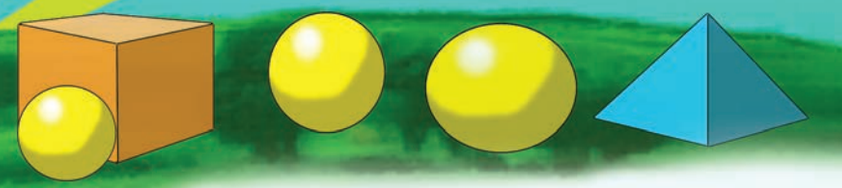


Fhedzisani thebulu.

9 + 9 + 1 =		kana	Ho ingwa kavhili 9 + 1 =		
		kana	Ho ingwa kavhili 8 + 1 =		
10 + 10 + 1 =		kana			
7 + 7 + 1 =		kana	Ho ingwa kavhili 7 + 1 =		

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



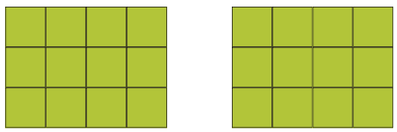
Deithi:

U hafula

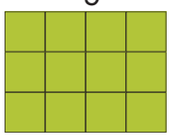


Findulani zwi tevhelaho:

Hu na zwikwea zwingana?

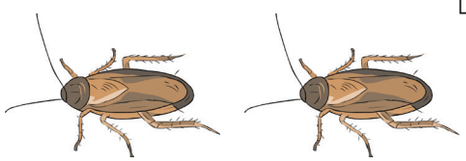


Hu na zwikwea zwingana zwino?

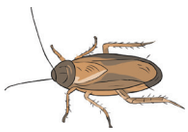


Ri ri hafu ya 24 ndi 12.

Hu na milenzhe mingana?



Hu na milenzhe mingana zwino?



Ri hafu ya 12 ndi

Hu na zwikitili zwingana?



Hu na zwikitili zwingana zwino?



Ri hafu ya 20 ndi

Hu na maḓuvha mangana kha vhege mbili?

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

Hu na maḓuvha mangana kha vhege nthihi?

S	M	T	W	T	F	S

Ri hafu ya 14 ndi

Hu na khirayoni nngana?



Hu na khirayoni nngana zwino?



Ri hafu ya 16 ndi

0 1 2 3 4 5 6 7 8 9 10



Ṅwalani phindulo.

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



Ṅwalani phindulo.

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



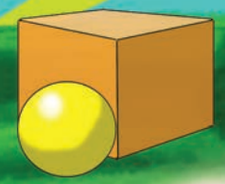
Ṅwalani phindulo.

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



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

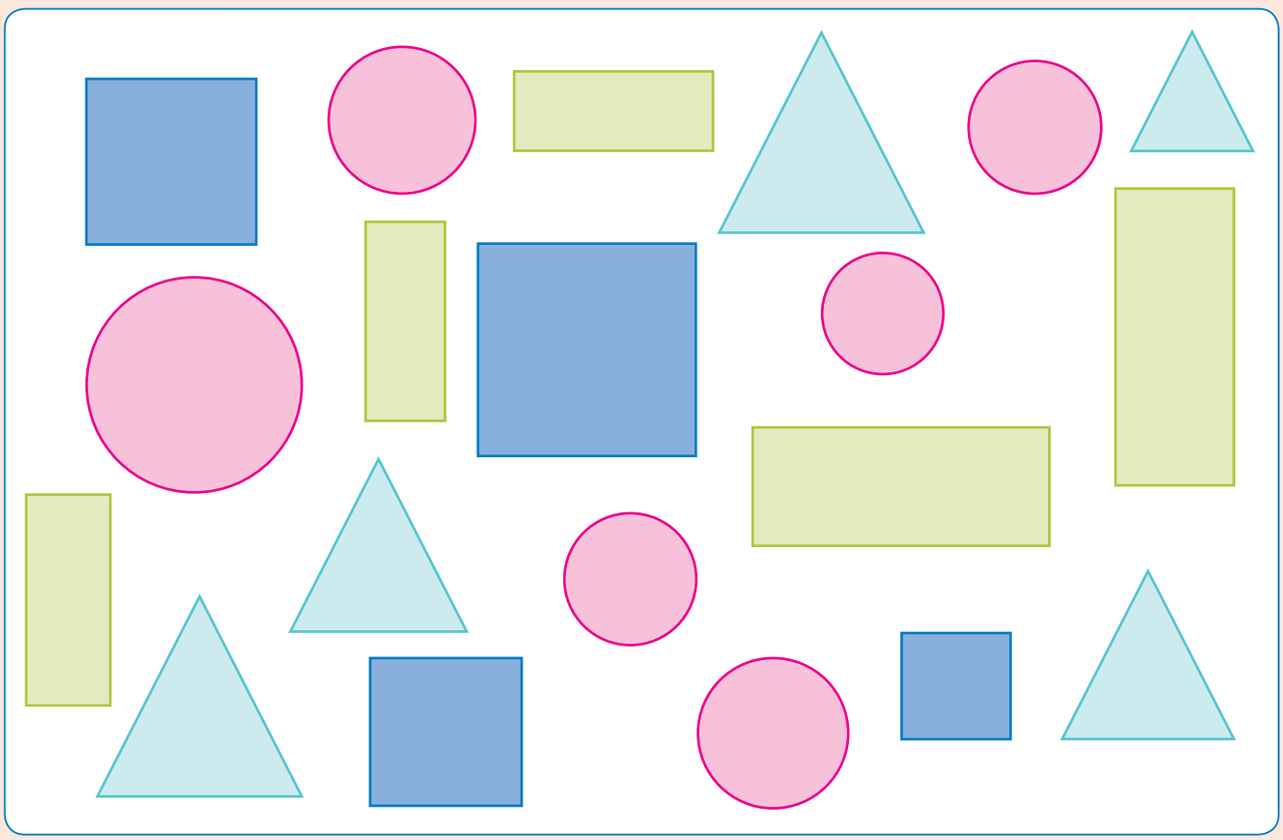


Deithi:

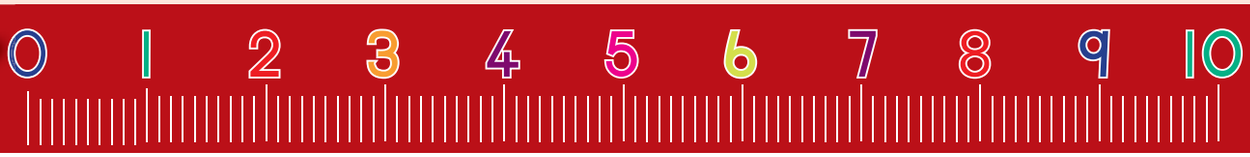
Data



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



1. Hu na zwikwea zwingana? 
2. Hu na thiraiengele nngana? 
3. Hu na rekithiengele nngana? 
4. Hu na zwiendeledzi zwingana? 





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



Mutshelo une ra u funesa?

Khii = ◯

Zwiṱiroberi	Maapula	Mapiere	Miomva	Maswiri

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

Teacher:
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Date:

11 12 13 14 15 16 17 18 19 20

125

Deithi:

Data iṅwe hafhu

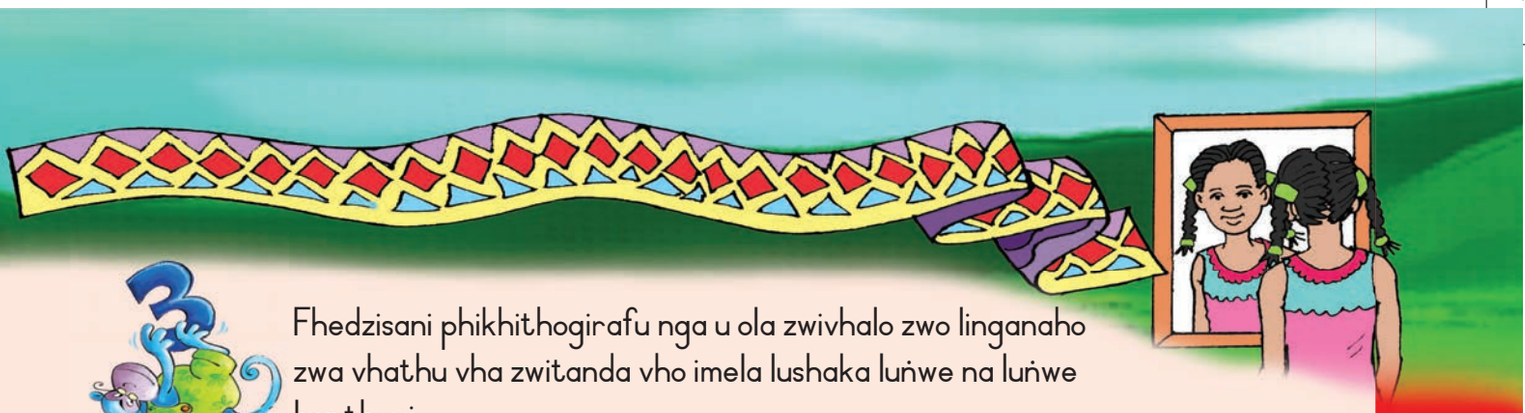
1 Vhana vha re kiḽasini vha na thoyi (zwitambiswa) dzi tevhelaho.
Vha na nngana dza lushaka luṅwe na luṅwe?



2 Fhedzisani thebuḽu.

Thoyi	Nomboro (Tshivhalo)
Mipopi	
Maṱiraka	
Thedibee	
Roboto	

0 1 2 3 4 5 6 7 8 9 10



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

Khii = 

Thoyi dzi re hone

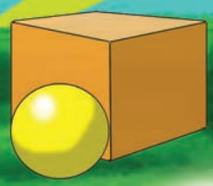
Mipopi	Maṱiraka	Thedibee	Roboto

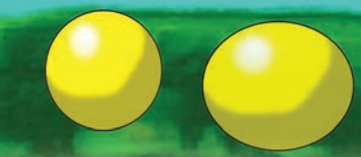
Fhindulani mbudziso. Lavhelesani phikhitogirafu uri i ni thuse.

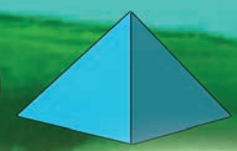
Ndi vhana vhangana vha re na mpopi?	
Ndi vhana vhangana vha re na ṱiraka?	
Ndi vhana vhangana vha re na thedibee?	
Ndi vhana vhangana vha re na roboto?	
Ndi thoyi ifhio i no takaleleswa?	
Ndi thoyi ifhio i sa takaleleswi?	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20







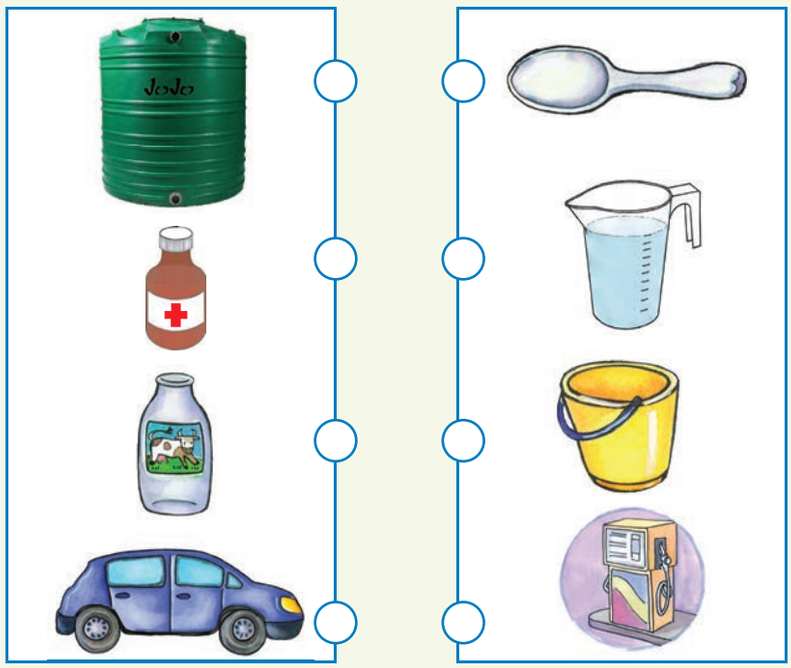
Deithi:

Khaphasithi (Nḓadzo)

Themo ya 4

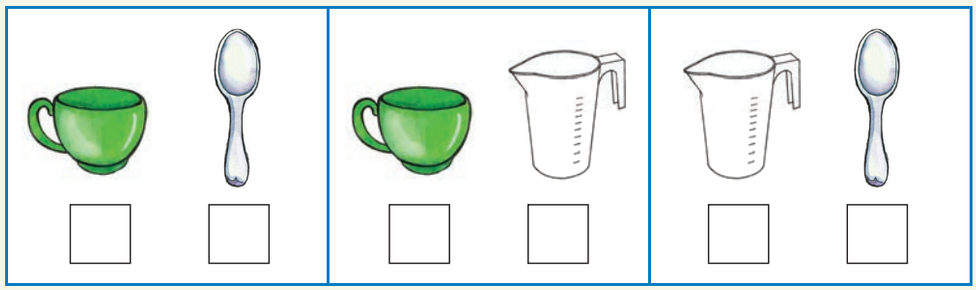


Ri ela zwiluḓi nga nḓilaḓe? Talani mutalo ni tshi livhanya tshithu na tshishumiswa tshone tsha u kala.



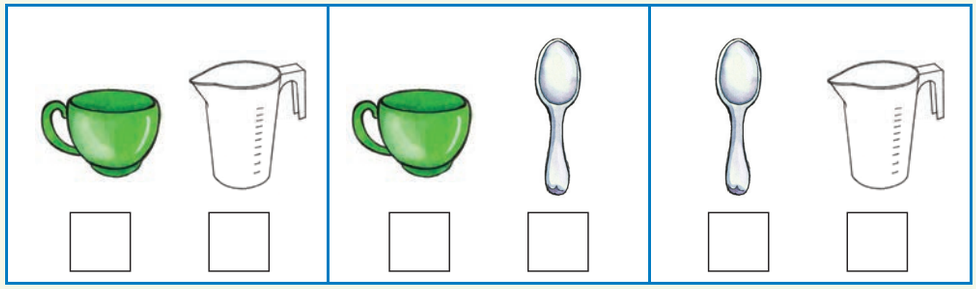


Itani thiki kha tshifaredzi (mudzio) tshi no fara zwiṱukuṱuku.



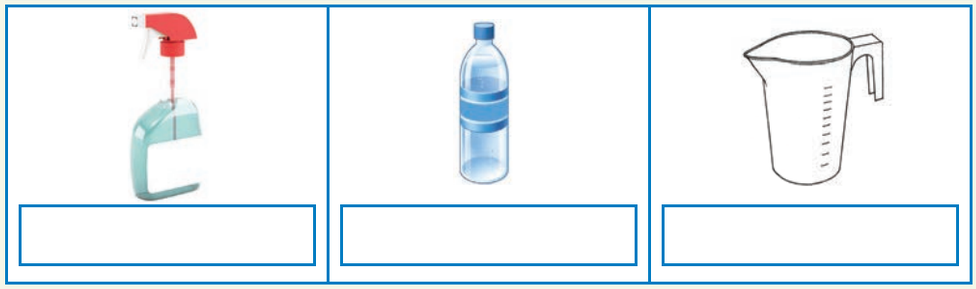


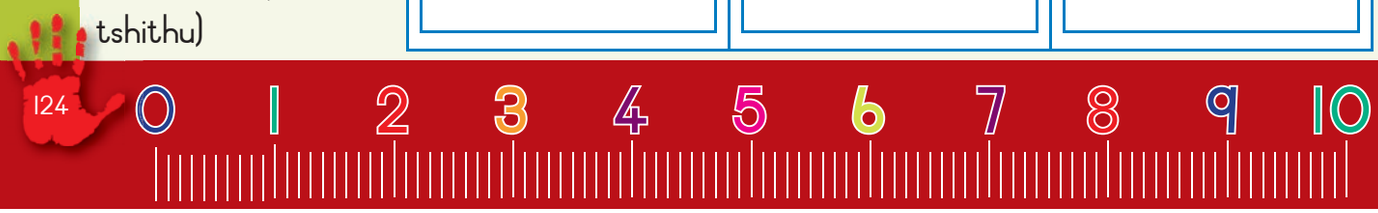
Itani thiki kha tshifaredzi (mudzio) tshi no fara zwinzhizwinzhi.





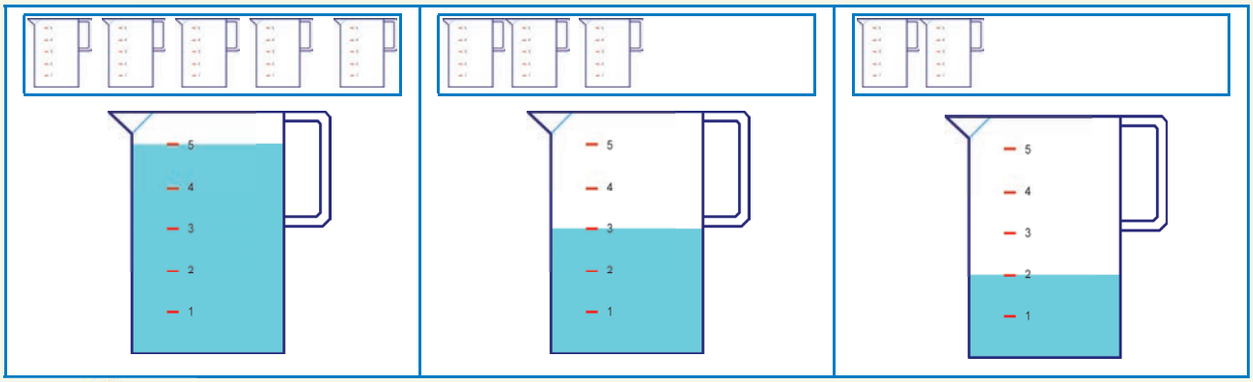
Zwifaredzi zwo ḓala kana ndi xoxoyo a zwi na tshithu? (a zwi na tshithu)





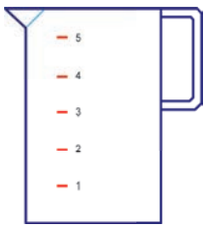


Ni tea u shumisa khaphu ṱhanu kha u ḓadza dzhege. Ndi khaphu nngana nga nṱha dzine na tea u shumisa kha u ḓadza idzo dziṅwe dzhege mbili? Zwi oleni.

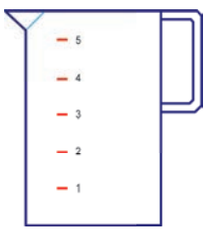




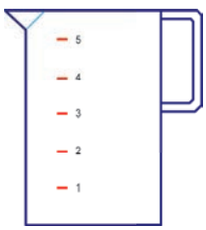
Khaḽarani tshivhalo tsho tsha zwiluḓi.



1 + 2 =

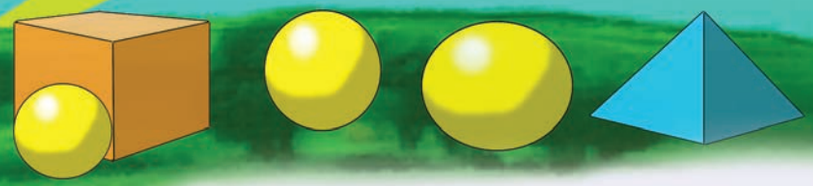


2 + 2 =



2 + 3 =

Teacher:
Sign:
Date:

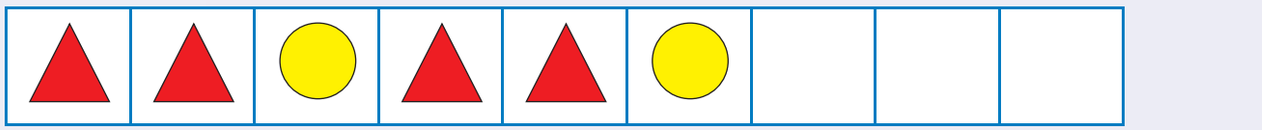


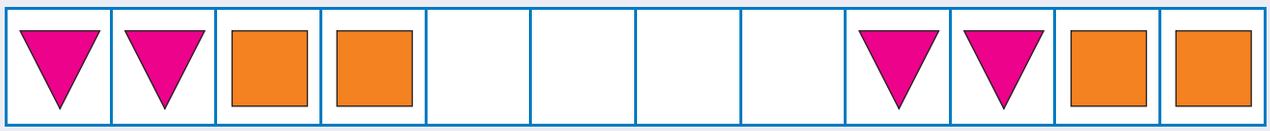
Deithi:

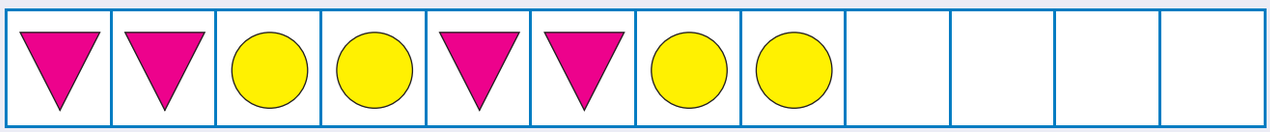
Phetheni dza dzhometiri

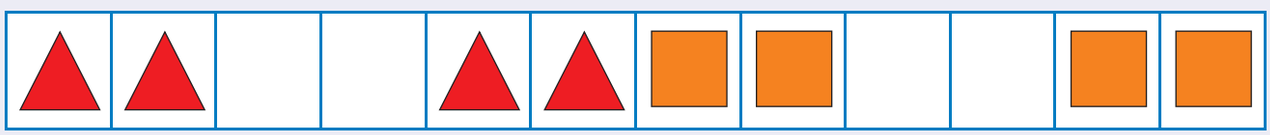


Fhedzisani phetheni.







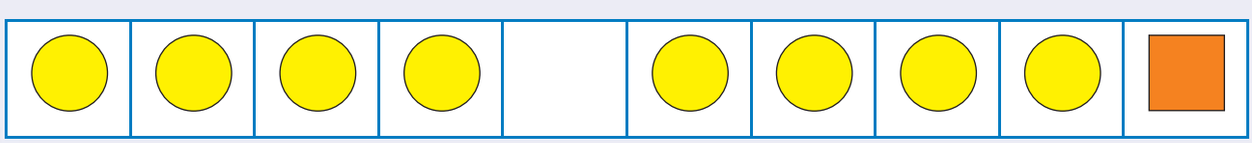


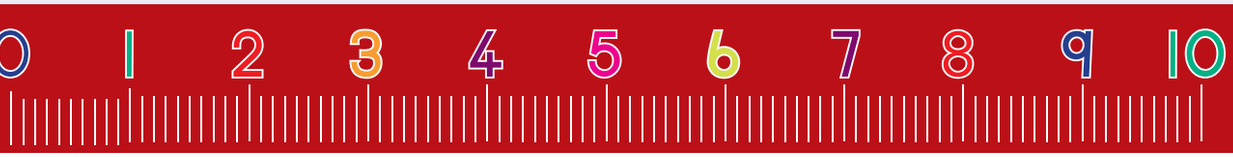
A	B	C	D	A	B	C	D				

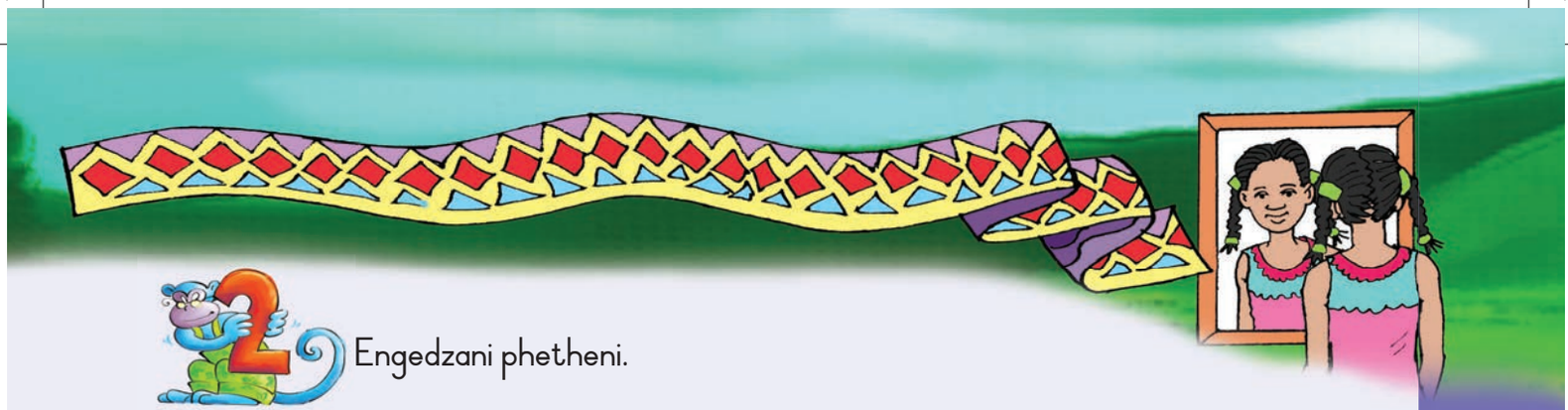
A	B	B	A	B	B		B	B	A		

A	B	C	A	B	C				A	B	C

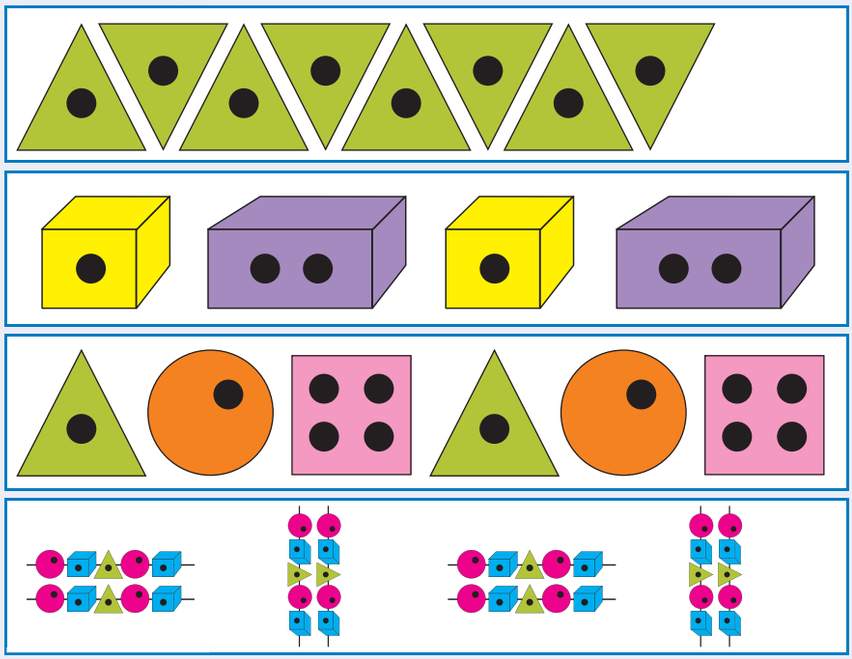
A	D	A	D	A	D			A	D		







2 Engedzani phetheni.



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

Teacher:
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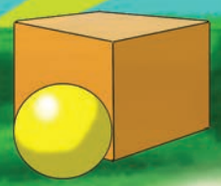
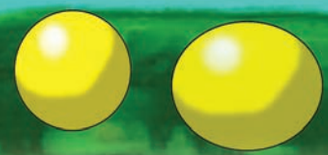
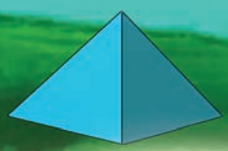
Date:





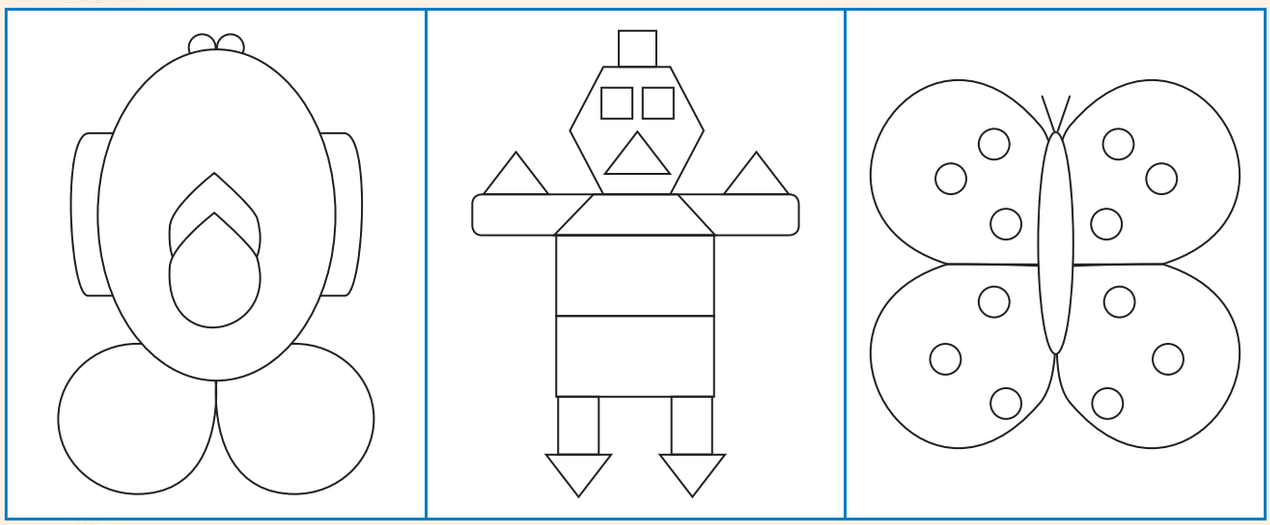


Deithi:

Ndinganahuvhili

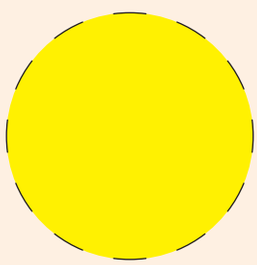


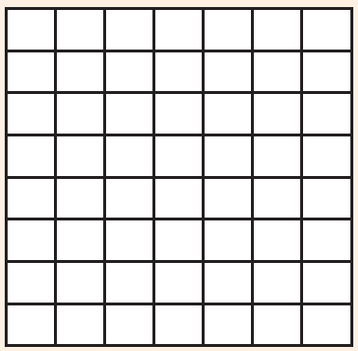
Talani mutalo wa ndinganahuvhili u no fhandula tshifanyiso tsha bva hafu mbili dzi no lingana. Khaḽarani hafu nthihi ya tshifanyiso tshiṅwe na tshiṅwe.



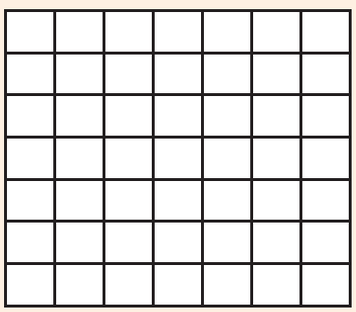


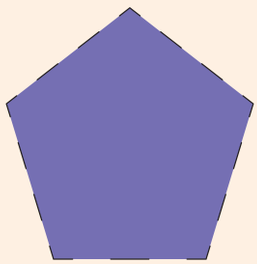
Kopololani zwivhumbeo, ni kone u tala mutalo wa ndinganahuvhili.

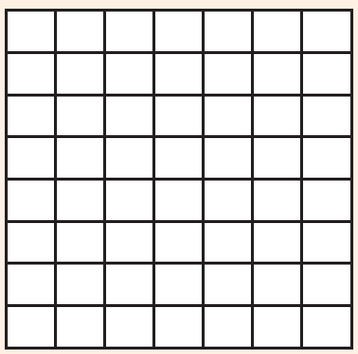








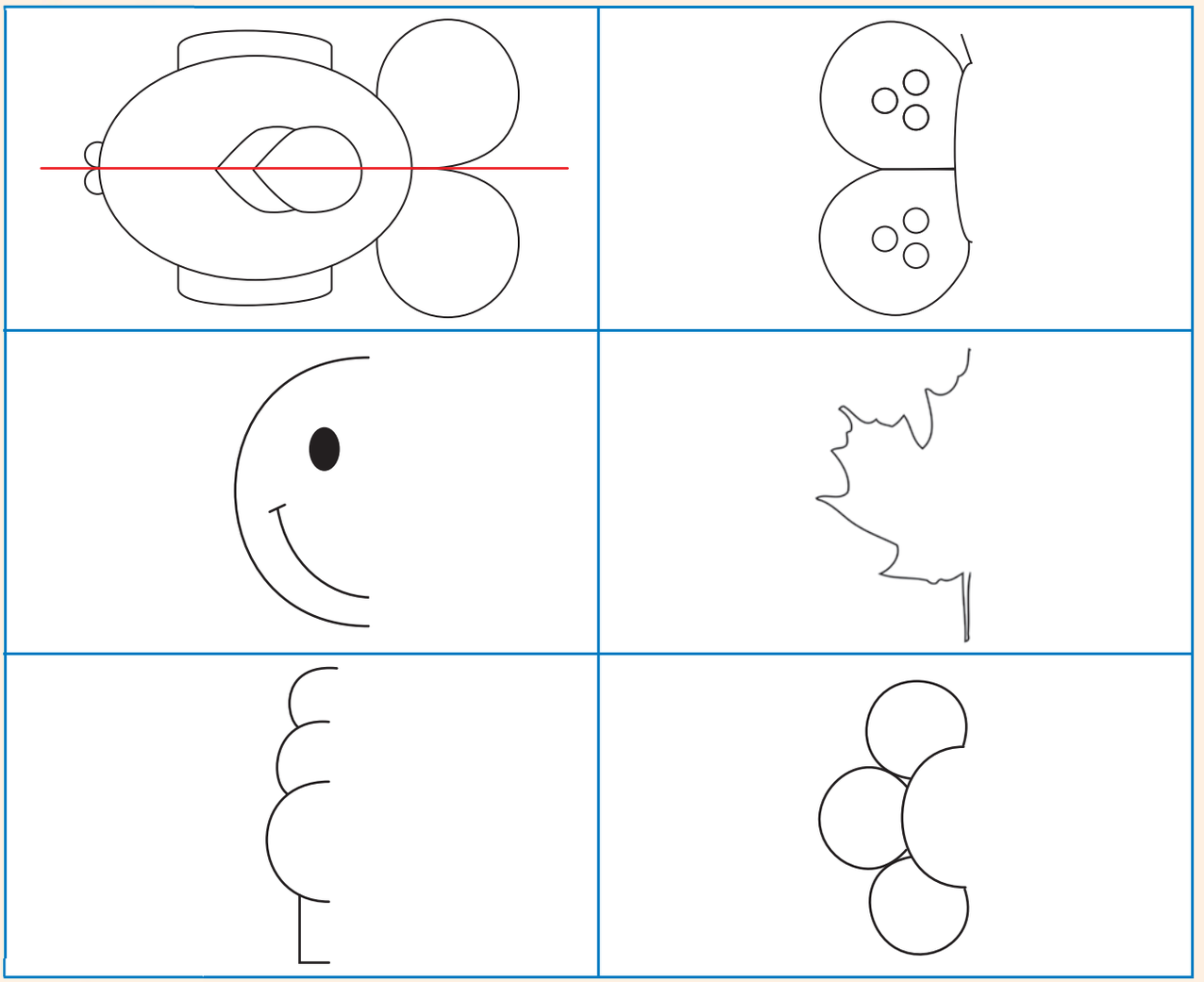






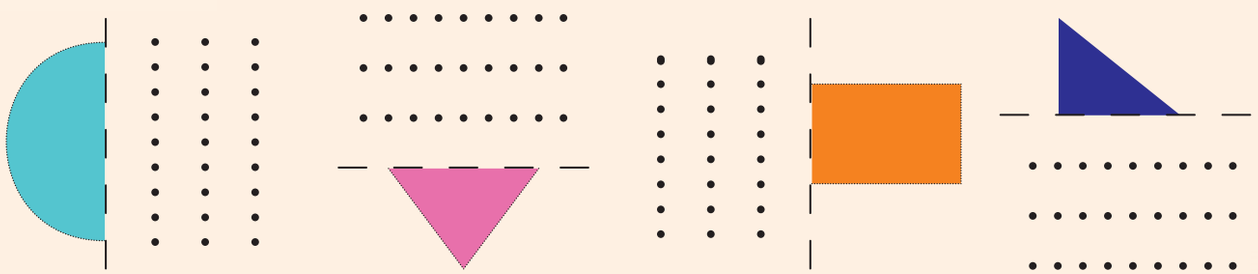


Fhedzisani tshifanyiso nga u ola iḽa iṅwe hafu kokotolo.





Olani iḽa iṅwe hafu ya tshivhumbeo.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Notsi



Notsi

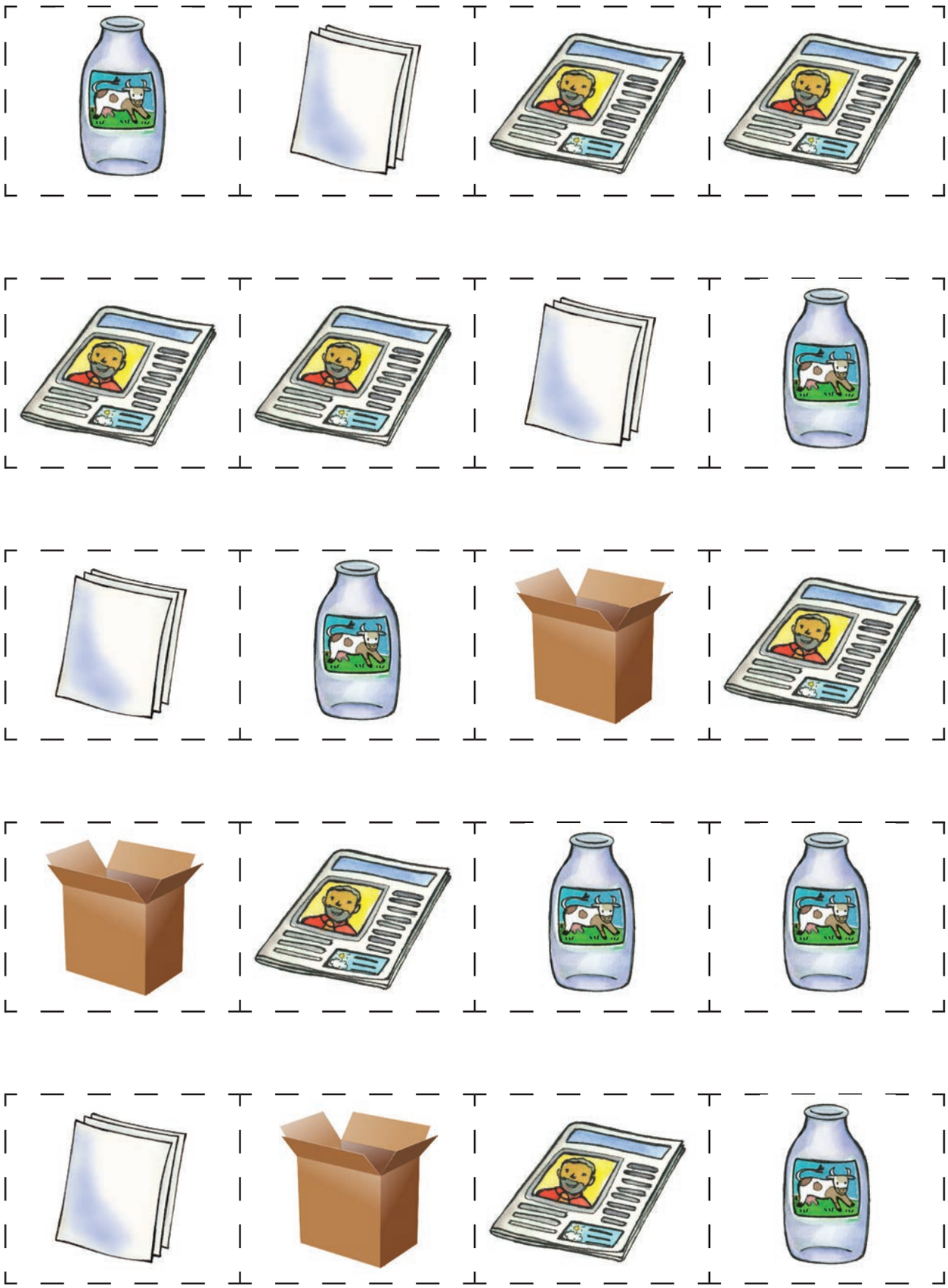


Notsi



Cut-out 1

Worksheet 79



Cut out cards 2

Worksheet 83

45		50		40		40		30		35

Worksheet 84

70		65		75		80		70		60

Worksheet 93

34		46		40		44		36		50		32

42		48		38

62		74		66		68		64		76		80		72		78

Worksheet 115

72		78		82		84		86		74		80

76		88		90

Worksheet 119

62		72		64		74		86		66		78		80		68

82		94		86		90		84		96		100

92		98		88