

Ku dyondza hi Vumbiwa ra Riphafiliki ra Afrika-Dzonga (1996)

Vumbiwa ra Afrika-Dzonga (1996) ri na milawu ya le henhla ya tiko. Milawu leyi yi le henhla ku tlula na puresidente, yi le henhla ku tlula tihuvo na ku tlula mfumo. Yi hlamusela ndlela leyi vanhu va tiko va faneleke ku khomana hiyona, timfanelo na vutihlamuleri bya vona eka vanhu van'wana. Vumbiwa ra Tiko ri kona leswaku ri kota ku sirhelela hinkwerhu ka hina sweswi na vana va hina eka minkarhi leyi taka.

Lemuka matimu ya hina.

Hi nga vu yeleti swihoxo swa nkarhi lowu nga hundza.

Vumbiwa ra hina ri hi pfuna ku anaka nya no aka vumundzu ku byo antswa bya vanhu hinkwavo.

Hina, vanhu va Afrika-Dzonga,

Hi lemuka ku kala vululami ka nkarhi lowu hundzeke evuton'wini bya hina;

Hi xixima lava va xanisekeke hikwalaho ko hisekela vululami na ntshunxeko etikweni rerhu;

Hi hlonipha lava va tirheke ku aka no hluvukisa tiko ra hina; naswona

Hi tshemba leswaku Afrika-Dzonga i ra hinkwavo lava tshamaka eka rona, hi hlanganile hi ku hambana-hambana ka hina.

Kutani, hi ku tirhisa vayimeri va hina lava hi tihlawuleleke vona hi ntshunxekile, hi amukela Vumbiwa leri tanihi nawu lowu kulukumba wa Riphafiliki ku endlela—

Ku lulamisa ku hambanisiwa ka nkarhi lowu hundzeke no vumba rixaka leri simekiweke ehenhla ka masungulo ya swipimelo swa xidemokhirasi, vululami exikarhi ka vanhu na timfanelo ta ximunhu ta masungulo;

Ku simeka masungulo ya rixaka ra xidemokhirasi leri vekaka swilo erivaleni laha eka rona mfumo wu simekiweke ehenhla ka ku navela ka vanhu naswona vaaka-tiko hinkwavo va sirheleriwile hi ku ringana hi nawu;

Ku antswisa xiyimo xa vutomi bya vaaka-tiko hinkwavo no humesela erivaleni vuswikoti bya munhu un'wana na un'wana na;

Ku aka Afrika-Dzonga leri vumbaneke ra xidemokhirasi leri ri kotaka ku teka vutshamo bya rona lebyi faneleke tanihi tiko leri tiyimeleke endyangwini wa tinxaka.

Lava timfanelo ta wena tanihi Muafrika-Dzonga u tlhela u va na vutihlamule ri byo sirhelela timfanelo ta vanhu van'wana.

Tiva Nawumbisi wa timfanelo ta wena & Nawumbisi wa Vutihlamule ri.

Xikwemba a xi sirhelele vanhu va hina.

Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.

God seën Suid-Afrika. God bless South Africa.

Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.

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

TERMS 3 & 4

ISBN 978-1-4315-0135-9

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15th Edition

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2

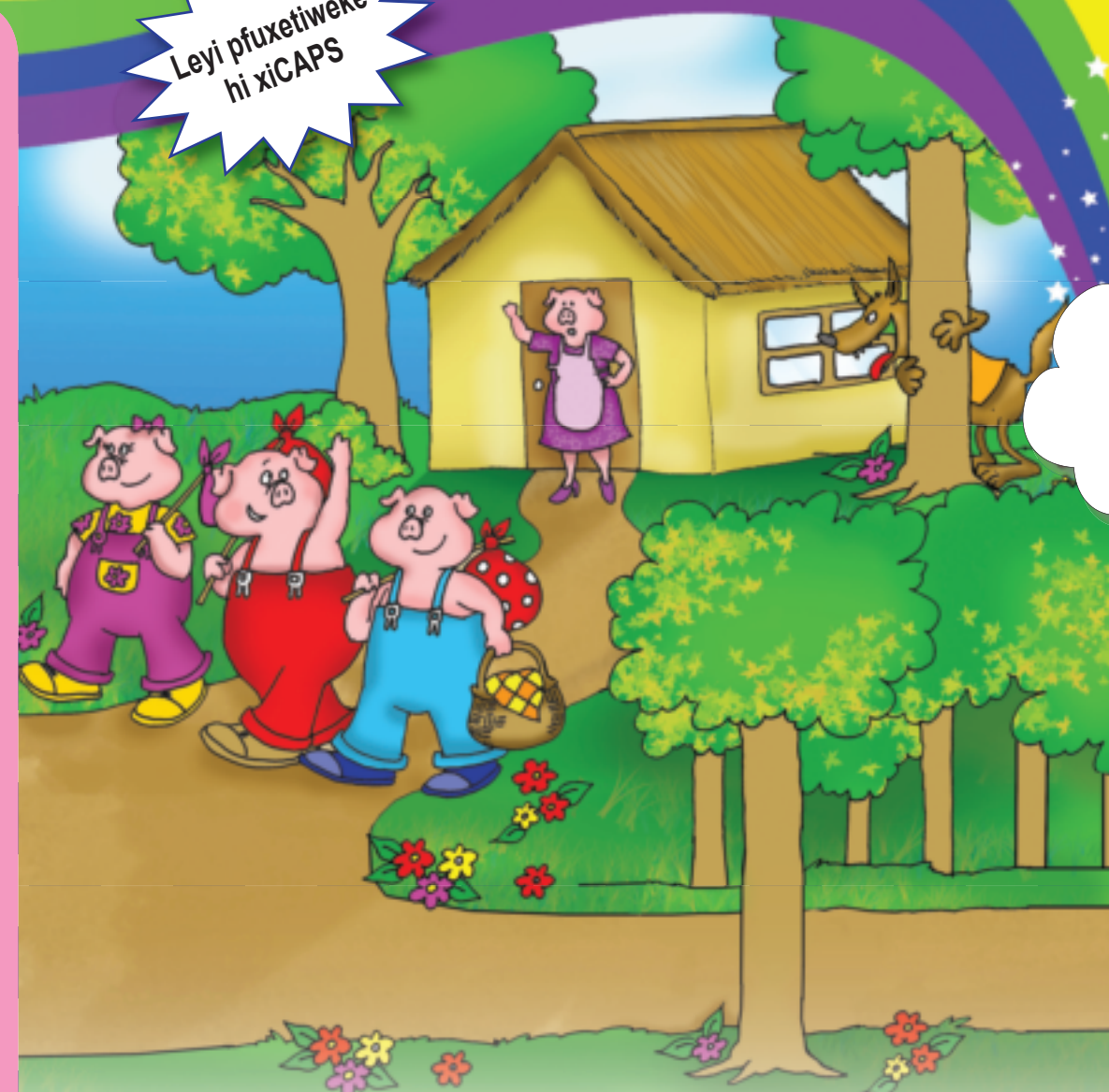
3

4

MATEMATIKI HI XITSONGA – Giredi ya 1 Buku ya 2

ISBN 978-1-4315-0135-9

**Leyi pfuxetiweke
hi xiCAPS**



**Giredi
ya 1**

Vito:

Tlilasi:



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**MATEMATIKI
HI XITSONGA**

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3 na 4

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Nwa Siviwe Gwarube
Holobye wa
Dyondzo ya Masungulo



Dkd. Reginah Mhaule
Xandla xa Holobye wa
Dyondzo ya Masungulo

Tibuku leti to tirhela ti endleriwe vana va Afrika-Dzonga ehansi ka vurhangeri bya Holobye wa Dyondzo ya Masungulo. Nwa Siviwe Gwarube, na Xandla xa Holobye wa Dyondzo ya Masungulo, Dkd. Reginah Mhaule.

Tibuku to tirhela ta Rainbow ti vumba xiyenge xin'wana xa ntlawa wa migingiriko ya Ndzawulo ya Dyondzo ya Masungulo leyi kongomisiweke eka ku antswisa matirhelo ya vadyondzi va Afrika-Dzonga eka tigiredi ta ntsevu to sungula. Tanihi xin'wana xa swilo leswi nga swirhangana eka nkunguhato wa matirhelo ya mfumo, phurojeke leyi yi humelerile hi ku seketeriwa hi timali hi Nkwama wa Timali ta Tiko. Leswi swi endlile leswaku Ndzawulo yi swi kota ku endla leswaku tibuku leti to tirhela, ti kumeka hi tindzimi hinkwato ta ximfumo handle ko hakeleriwa.

Hi tshemba leswaku tibuku leti ti ta pfuna vadyondzisi eka migingiriko ya vona yo dyondzisa ya masiku hinkwawo no tiyisisa leswaku vadyondzi va vona va kota ku heta kharikhulamu. Hi tiyisise leswaku hi letela mudyondzisi eka nghingiriko wun'wana na wun'wana hi ku katsa mifungho leyi kombisaka leswi mudyondzi a faneleke ku endla swona.

Hi ni ntshembo wa leswaku vana va ta tiphina no tsakela ku tirha migingiriko leyi nga ebukwini loko va ri karhi va ya emahlweni no dyondza, na leswaku wena, mudyondzisi, u ta tsaka swin'we na vona. Hi mi navelela ku humelela, wena na vadyondzi va wena eku tirhiseni tibuku leti to tirhela.



Giredi
ya



M a t e m a t i k i

Buku leyi i ya:

XITSONGA

Buku ya

2



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

Twisisa nomboro ya II

Mpfuxeto:

Titolovete ku tsala tinomboro.



n'we

1 1

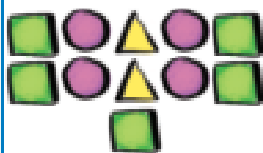
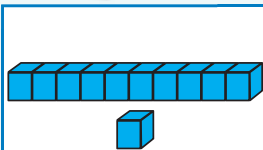


mbirhi

2 2

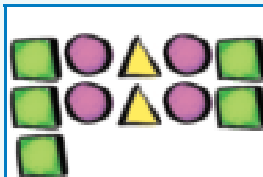


Yelanisa swifaniso.

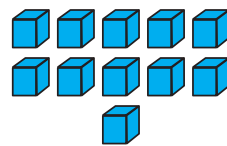


10 1

II



II



10 1



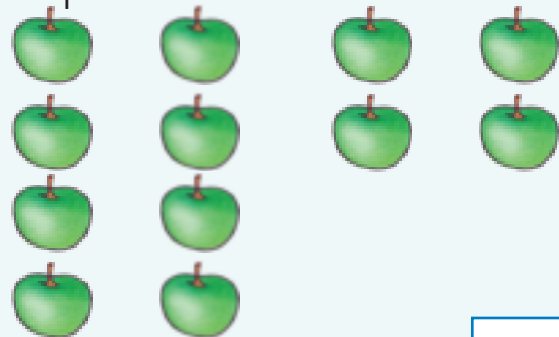
Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka IO wa malekere ntsena.



Xana ku sale malekere mangani?

Bana xirhendzevutana eka IO wa maapula ntsena.



Xana ku sale maapula mangani?





Landzelerisa tinomboro.

khumen'we			



Kholomu yin'wana
na yin'wana yi
fanele ku hlangana
yi endla II.
Tatisa tinomboro
leti siyiweke.

3	5	4
4	5	
4		2
II	II	II



Dirowa II wa minchumu.



Tatisa tinomboro leti siyiweke.

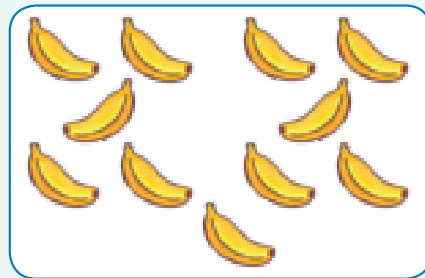
1

2

4



Hlayela minchumu
leji landzelaka.



Hetisa tafula leri landzelaka. Rixaxa rin'wana na rin'wana
ri na xifaniso, nomboro na vito ra nomboro leyo.

		khumen'we
		khumen'we
II		
	khumen'we	



Hi kuma yini loko hi yisa II
ehansi hi n'we? _____

Hi kuma yini loko hi engetela
n'we eka II? _____

Teacher:
Sign:
Date:

II 12 13 14 15 16 17 18 19 20



66

Siku:

Twisisa nomboro ya 12

Mpfuxeto:

Titolovete ku tsala tinomboro.



nharhu

3 3

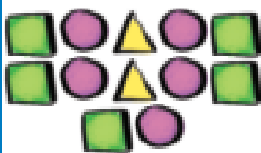
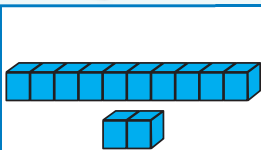


mune

4 4

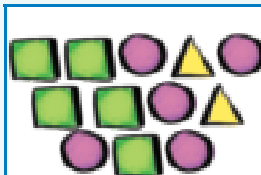


Yelanisa swifaniso.

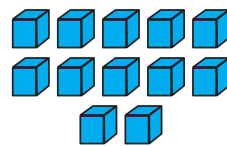


10
2

12



12



10
2



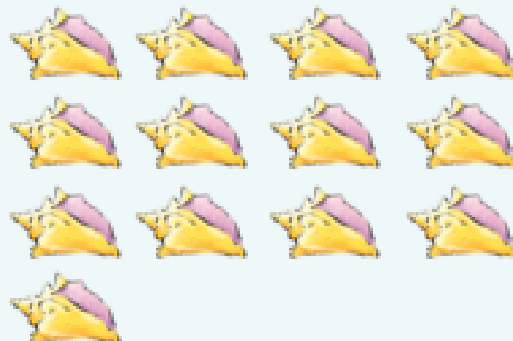
Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa tintanghu ntsena.



Xana ku sale tintanghu tingani?

Bana xirhendzevutana eka 12 wa tinkatla ta lwandle ntsena.



Xana ku sale tinkatla ta lwandle tingani?

Kotara ya 3



0 1 2 3 4 5 6 7 8 9 10



Landzelerisa tinomboro.

12 12 12 12

khumembirhi

12 12 12 12



Kholomu yin'wana na
yin'wana yi fanele ku
hlangana yi endla 12.
Tatisa tinomboro leti
siyiweke.

	7	6
4		4
3	2	
12	12	12



Dirowa 12 wa minchumu.



Tatisa tinomboro leti siyiweke.

3		5			
8			11		



Hlayela
minchumu leyi
landzelaka.



Hetisa tafula leri landzelaka. Rixaxa rin'wana na rin'wana
ri na xifaniso, nomboro na vito ra nomboro leyo.



		khumembirhi
	12	khumembirhi
		12
khumembirhi		

Hi kuma yini loko hi yisa 12
ehansi hi n'we? _____

Hi kuma yini loko hi engetela
n'we eka 12? _____

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20



Twisisa nomboro ya 13

Mpfuxeto:

Titolovete ku tsala tinomboro.



ntlhanu

5 5

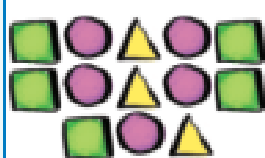
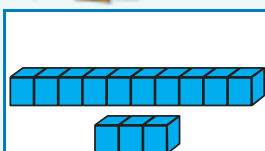


ntsevu

6 6



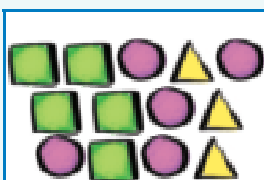
Yelanisa swifaniso.



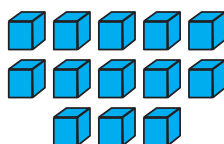
10

3

13



13



10

3



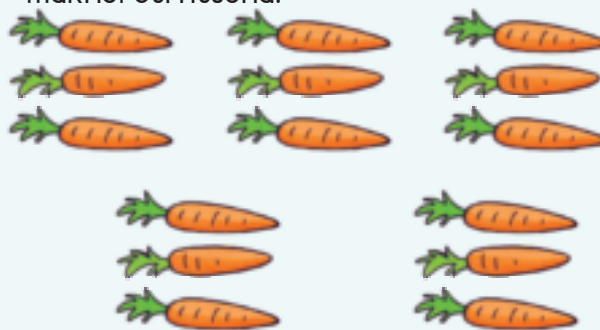
Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa swimanga ntsena.



Xana ku sale swimanga swingani?

Bana xirhendzevutana eka 13 wa makheroti ntsena.



Xana ku sale makheroti mangani?





Landzelerisa tinomboro.

13 13 13 13

khumenharhu

13 13 13 13



Kholomu yin'wana na
yin'wana yi fanele ku
hlangana yi endla 13.
Tatisa tinomboro leti
siyiweke.

1	2	6
1		
	3	2
13	13	13



Dirowa 13 wa minchumu.

Sweswi yi dirowe hi ndlela yo hambana.

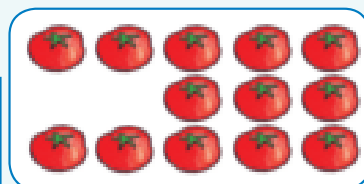
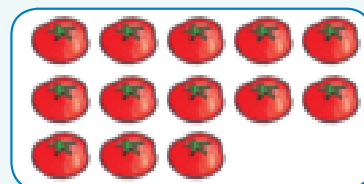


Tatisa tinomboro
leti siyiweke.

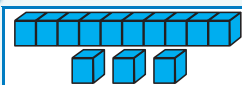
	10		12	
--	----	--	----	--



Hlayela minchumu
leyi landzelaka.



Hetisa tafula leri landzelaka. Rixaxa rin'wana na
rin'wana ri na xifaniso, nomboro na vito ra nomboro leyo.

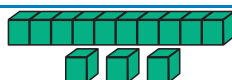


khumenharhu

13

khumenharhu

13



khumenharhu



Hi kuma yini loko hi yisa 13
ehansi hi n'we? _____

Hi kuma yini loko hi engetela
n'we eka 13? _____



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

Twisisa nomboro ya 14

Mpfuxeto:

Titolovete ku tsala tinomboro.



nkombo

7 7

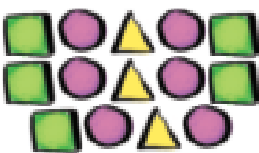
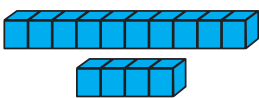


nhungu

8 8



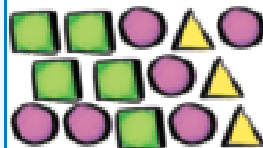
Yelanisa swifaniso.



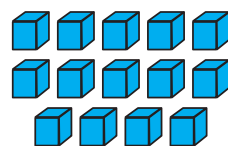
10

4

14



14



10

4



Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa maphaphatani ntsema.



Xana ku sale maphaphatani mangani?

Bana xirhendzevutana eka 14 wa tirhoko ntsema.



Xana ku sale tirhoko tingani?





Landzelerisa tinomboro.

14 14 14 14

khumemune

14 14 14 14



Kholomu yin'wana na
yin'wana yi fanele ku
hlangana yi endla 14.
Tatisa tinomboro leti
siyiweke.

1		2
	5	1
3	2	
14	14	14



Dirowa 14 wa minchumu.

Sweswi yi dirowe hi ndlela yo hambana.



Hlayela minchumu leyi
landzelaka.



Hetisa tafula leri landzelaka. Rixaxa rin'wana na
rin'wana ri na xifaniso, nomboro na vito ra nomboro leyo.

	14	khumemune
14		
	khumemune	



Hi kuma yini loko hi yisa 14
ehansi hi n'we? _____

Hi kuma yini loko hi engetela
n'we eka 14? _____



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



Twisisa nomboro ya 15

Mpfuxeto:

Titolovete ku tsala tinomboro.

 kaye

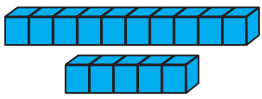
9 9

 khume

10 10



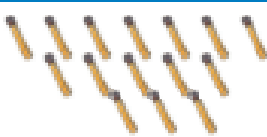
Yelanisa swifaniso.

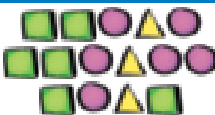




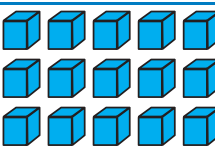
10 5

15





15



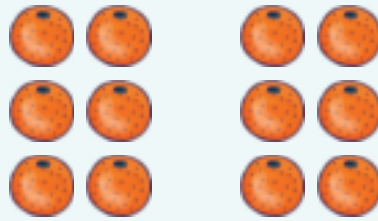


10 5



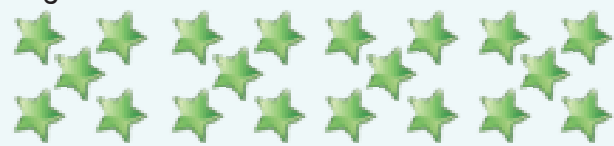
Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa malamula ntsena.



Xana ku sale malamula mangani?

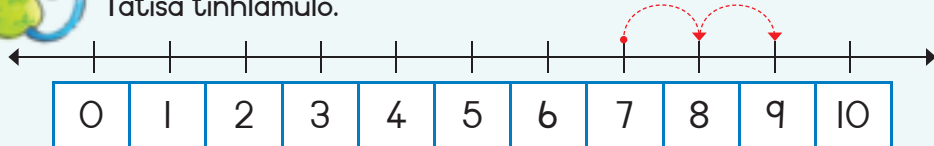
Bana xirhendzevutana eka 15 wa tingeleti ntsena.



Xana ku sale tingeleti tingani?

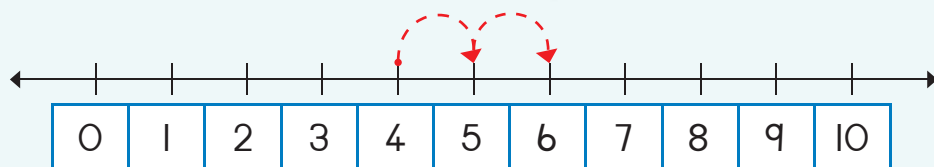


Tatisa tinhlamulo.



$7 + 2 =$





$$4 + 2 =$$



Landzelerisa tinomboro.

15 15 15 15

khumemune

15 15 15 15



Dirowa 15 wa minchumu.

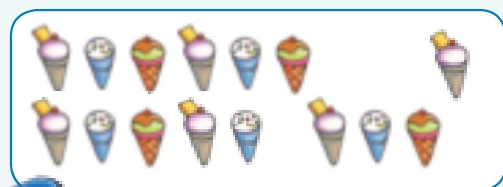
Sweswi yi dirowe hi ndlela yo hambana.

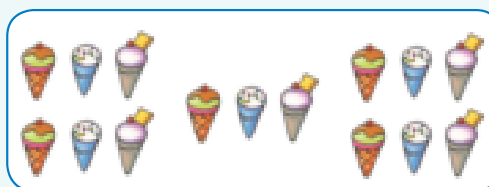


Tatisa tinomboro leti siyiweke.



Hlayela minchumu leji landzelaka.







Hetisa tafula leri landzelaka. Rixaxa rin'wana na rin'wana ri na xifaniso, nomboro na vito ra nomboro leyo.

	15	khumemune
		khumemune
15		



Hi kuma yini loko hi yisa 15 ehansi hi n'we? _____

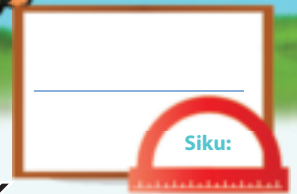
Hi kuma yini loko hi engetela n'we eka 15? _____



Teacher: _____
Sign: _____
Date: _____



11 12 13 14 15 16 17 18 19 20



Ku hlanganisa ku fika eka 20 – Ku ya emahlweni no hlayela

Mpfuxeto:

Titolovete ku tsala vito ra nomboro.

6

ntsevu



Languta xifaniso kutani u tsala xivulwa xa tinomboro xa swin'wana na swin'wana.

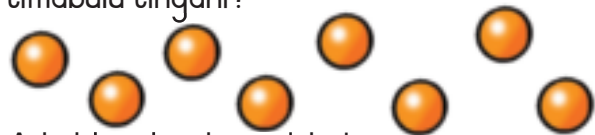
Lisa u na 3 wa malekere. Mandla u na 5 wa malekere. Xana va na malekere mangani loko ya hlanganile hinkwawo?



A hi hlayeleni:

3	...	4	5	6	7	8
	+		=			

A ndzi ri na 8 wa timabulu kutani ndzi lahlekeriwa hi 4 wa tona. Xana ndzi sale na timabulu tingani?

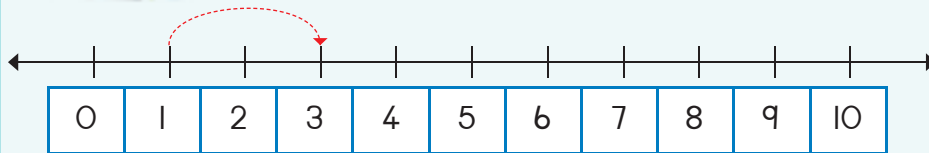


A hi hlayeleni hi xindzhaku:

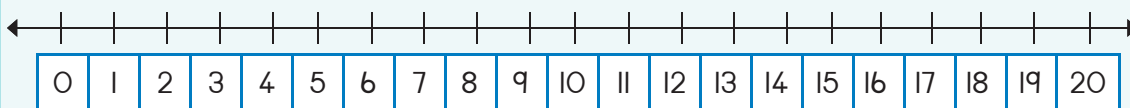
8	...	7	6	5	4
	-		=		



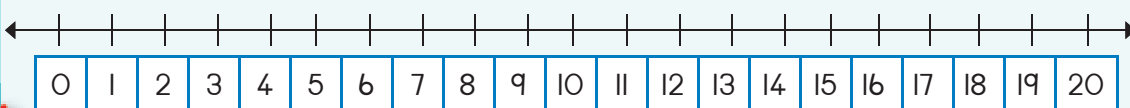
Tatisa tinhlamulo.



$$1 + 2 = \square$$



$$13 + 2 = \square$$

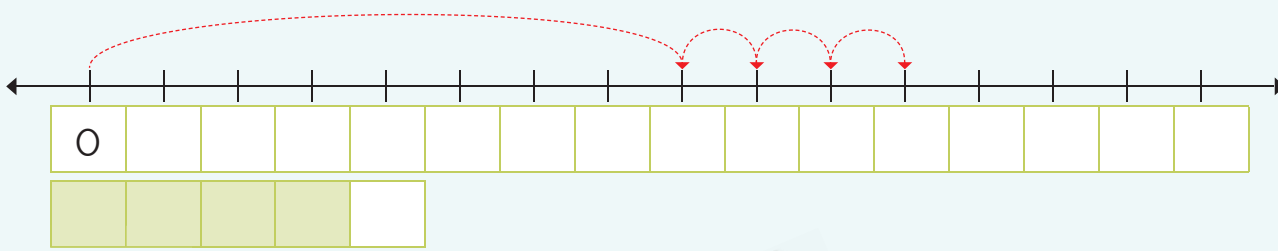
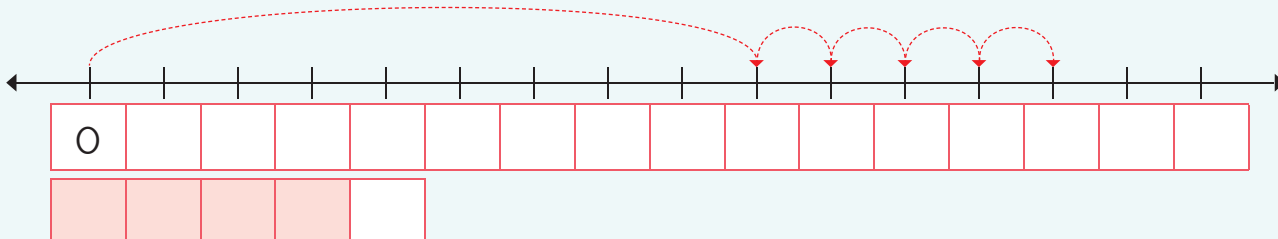
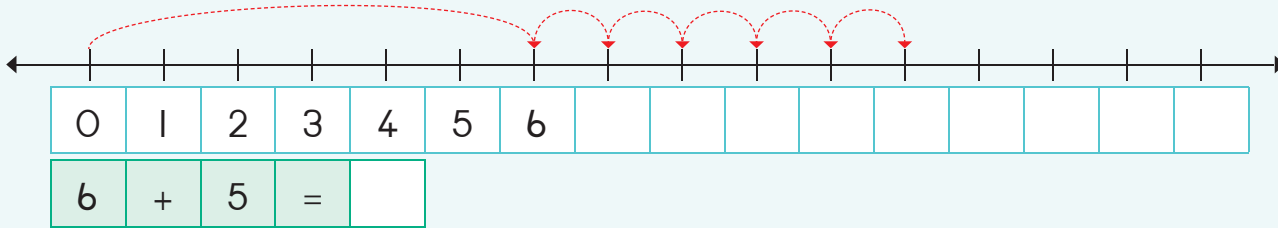


$$15 + 2 = \square$$





Tatisa tinomboro eka ndzhathi wa mintsengo u tlhela u tsala xivulwa xa tinomboro xa ndzhathi wun'wana na wun'wana wa mintsengo.



Engetela 2.

3	5
4	
2	



7	
8	
6	



Tatisa tinomboro.

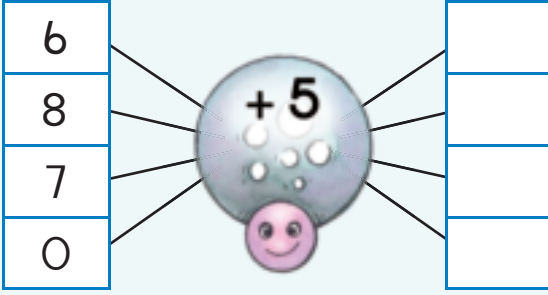
Ndzi na 7 wa malembe. Xana ndzi ta va na malembe mangani eka nkarhi wa 5 wa malembe?

7					
---	--	--	--	--	--

Ndzi ta va na _____ wa malembe.



Pfuna pume ku hetisa nhlayo.



Teacher:
Sign:
Date:



Ku hlanganisa – ku aka no tlhantlha tinomboro ku fika eka 10

Mpfluxeto:

Titolovete ku tsala vito ra nomboro.

7

nkombo



Tatisa nhlamulo.

$3 + 3 = \square$



$0 + 5 = \square$



$3 + 2 + 1 = \square$



Khalara ku kombisa leswi landzelaka.

$3 + 9$



$4 + 8$



$5 + 7$



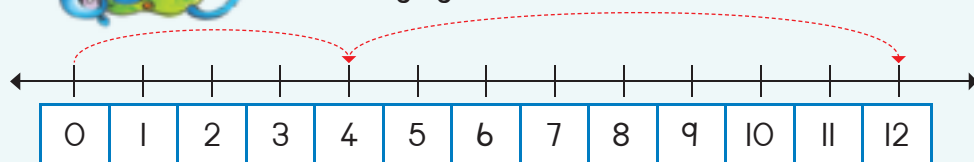
$6 + 6$



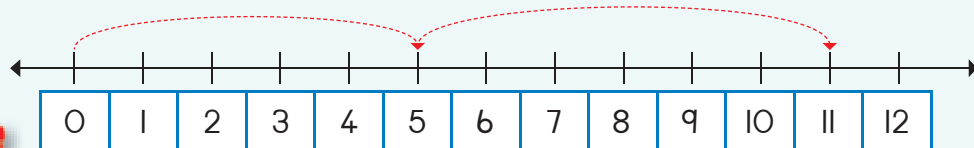
$7 + 5$



Tsala nhlayo ya:



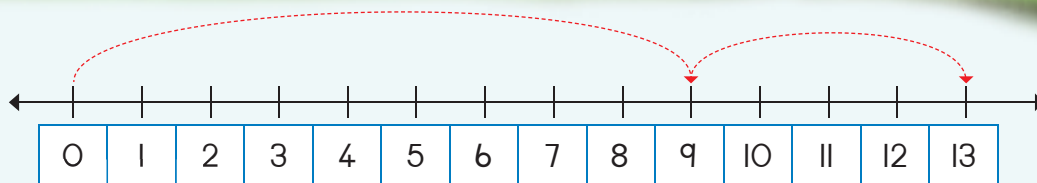
$\square + \square = \square$



$\square + \square = \square$



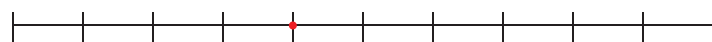
0 1 2 3 4 5 6 7 8 9 10



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



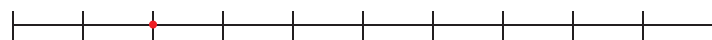
Hetisa ndzhati wa mintsengo u tlhela u tatisa nhlamulo.



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



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



$$2 + 4 + 3 = \square$$



$$4 + 3 + 2 = \square$$



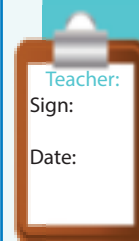
Ololoxa leswi landzelaka hi ku dirowa swifaniso.

Ndzi na 5 wa timabulu kasi munghana wa mina u na 8. Xana hi na timabulu tingani hinkwerhu ka hina?

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

Ndzi na 9 wa swiluva swo nyika mudyondzisi wa hina kasi munghana wa mina u na 6 wa swiluva. Xana hi kumile swiluva swingani hinkwaswo ka swona.

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



11 12 13 14 15 16 17 18 19 20

Ku hlanganisa – ku aka no tlhantlha tinomboro ku fika eka 20

Mpfluxeto:

Titolovete ku tsala vito ra nomboro.

8

nhungu

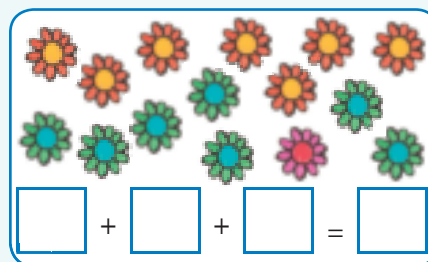
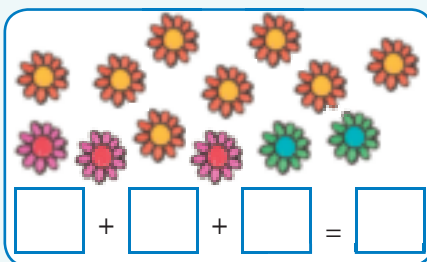
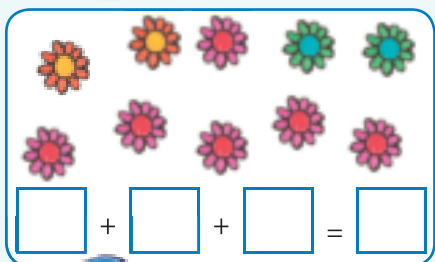


Tatisa nhlamulo.

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



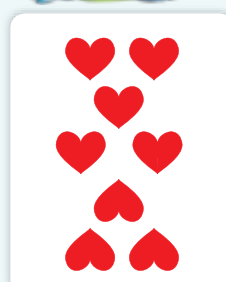
Tirhisa swiluva swa mihlovo yo hambana ku endla swivulwa swa wena swa tinomboro.



Pfuna pume ku hetisa tinhlayo.



Ku na timbilu tingani?



Endla nhlayo ya wena.

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



0 1 2 3 4 5 6 7 8 9 10



Yelanisa tiphere ta tinomboro ku endla tinomboro leti landzelaka.

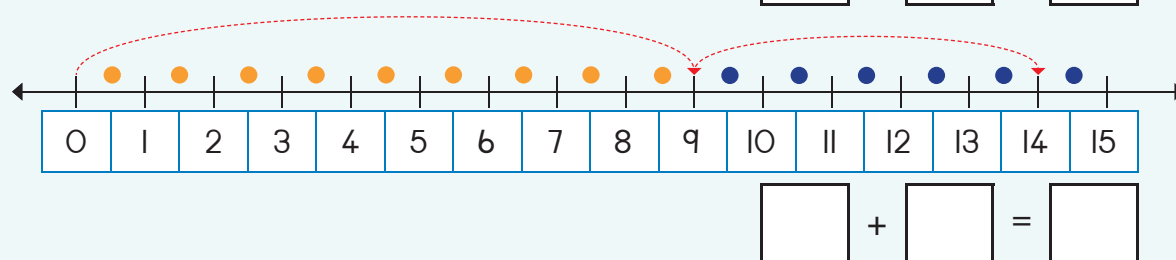
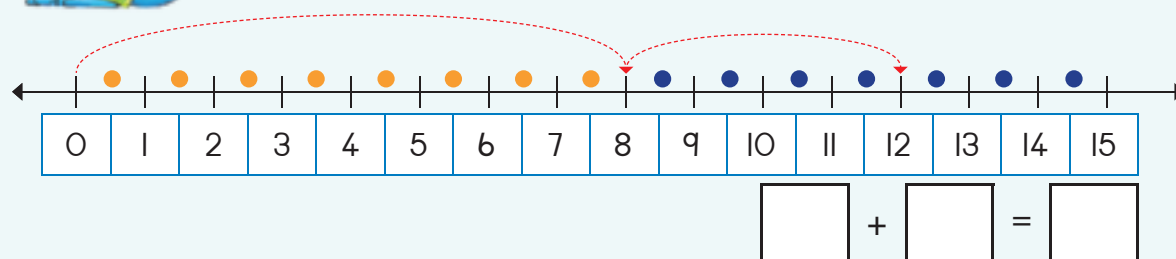
7	13	5
8		4
9		6
10		2
11		3

6	11	7
7		4
3		8
4		5
5		6

8	12	6
10		1
4		8
11		4
6		2



Tsala xivulwa xa tinomboro xa:



Mpfuxeto:

Mpfuxeto: Khalara nhlamulo leyi nga yona.

xifaniso xa le mahlweni

xifaniso xa le ndzhaku

xifaniso xa le tlhelo

xifaniso xa le mahlweni

xifaniso xa le ndzhaku

xifaniso xa le tlhelo

xifaniso xa le mahlweni

xifaniso xa le ndzhaku

xifaniso xa le tlhelo

xifaniso xa le mahlweni

xifaniso xa le ndzhaku

xifaniso xa le tlhelo

Teacher:
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20



Ku hlanganisa – ku aka no tlhantlha
tinomboro ku fika eka 20

Mpfuxeto:

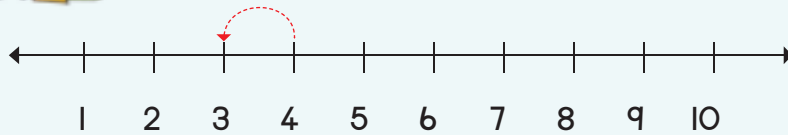
Titolovete ku tsala vito ra nomboro.

9

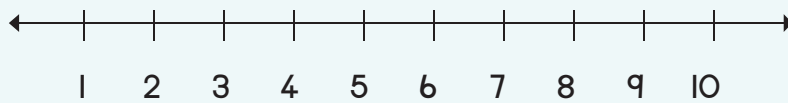
kaye



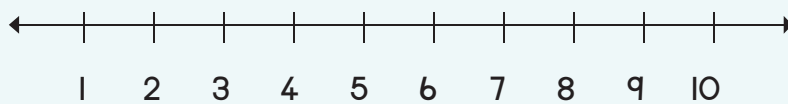
Tatisa nhlamulo.



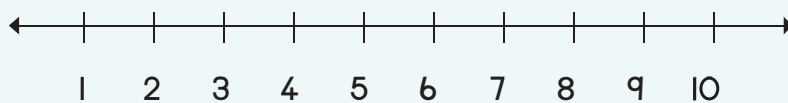
$4 - 1 = \square$



$5 - 3 = \square$



$4 - 2 = \square$



$5 - 2 = \square$



Pfuna pume ku hetisa
tinhlayo.



Ku na timbilu tingani?



Endla nhlayo ya wena.

$\square + \square = \square$



0 1 2 3 4 5 6 7 8 9 10



Khakhuleta leswi landzelaka.

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

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

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

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



Tsala tinhlamulo, u khalara u tlhela u dirowa.

$$8 + 6 = \square$$

Ku na tibolo tingani?

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

$$15 - 7 = \square$$

Ku na tibolo tingani?

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

$$9 + 4 = \square$$

Ku na tibolo tingani?

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

$$14 - 5 = \square$$

Ku na tibolo tingani?

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

Mpfuxeto:

Titolovete ku tsala vito ra nomboro.

10

khume

Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20



Ku leha



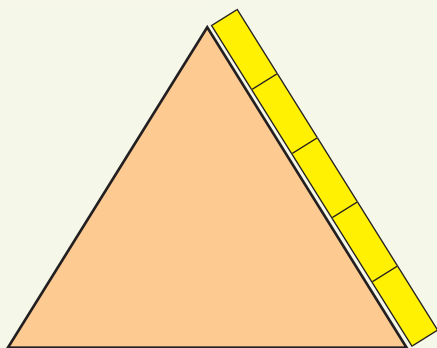
Languta xifaniso kutani u hlamula swivutiso leswi landzelaka.

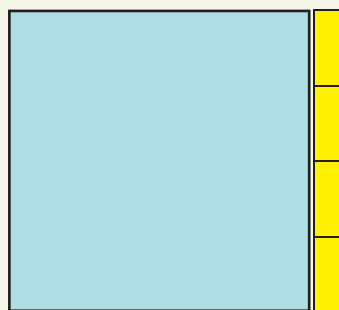
Jabu	Pam	Nomsa	Ken

Xana i mani loyi a nga leha swinene?	Mufana wo koma swinene i mani?
Xana i mani loyi a nga koma swinene?	Nhwanyana wo leha swinene i mani?



Matlhelo ya swivumbeko leswi landzelaka ya lehile ku ringana tibuloko tingani?









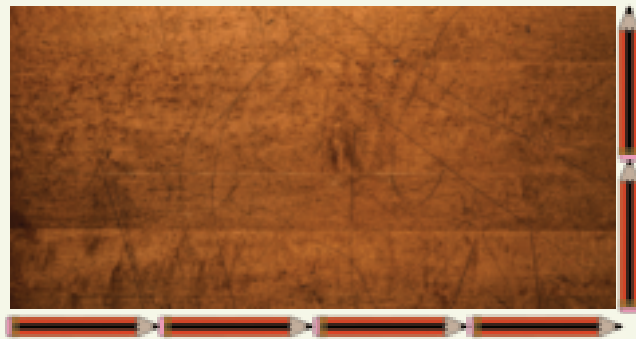


Hi byihi vulehi na vuanami bya tafula hi vulehi bya tibuloko na tipenisele?



Vuanami i ____ wa tibuloko.

Vulehi i ____ wa tibuloko.



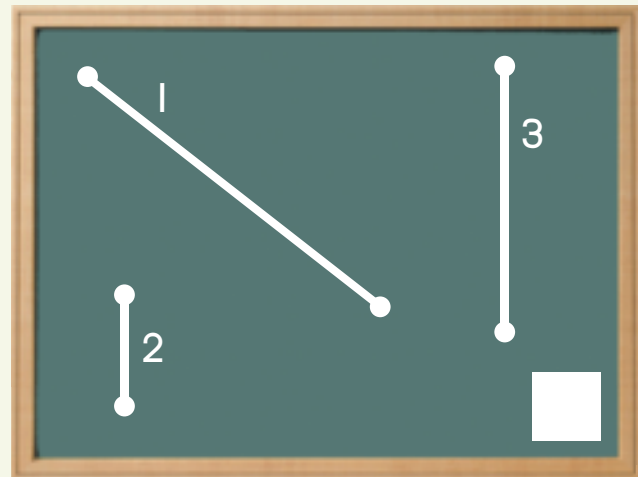
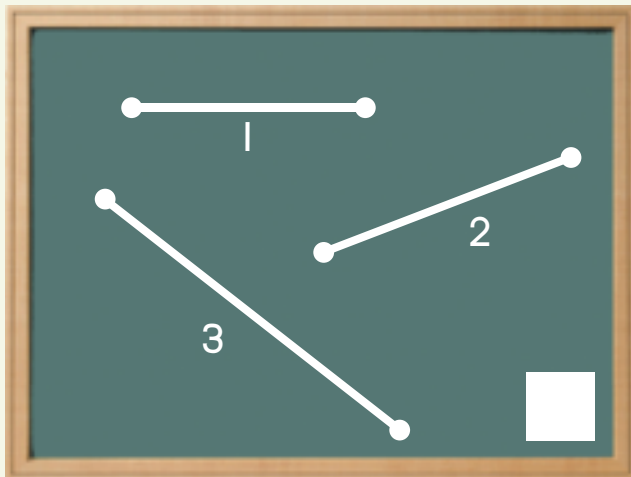
Vuanami i ____ wa tibuloko.

Vulehi i ____ wa tibuloko.



Hi wihi ntila wo koma swinene?
Ntila wa 1, wa 2 kumbe wa 3?

Hi wihi ntila wo leha swinene?
Ntila wa 1, wa 2 kumbe wa 3?



Mali na cinci



Gwajula ntsengo wa le henhla swinene eka rixaxa rin'wana na rin'wana.

 ☐	 ☒	 ☐	 ☐
 ☐	 ☐	 ☐	 ☐



Gwajula swingwece leswi ku nyikaka R10.

			
☐	☐	☐	☐
			
☐	☐	☐	☐



Gwajula swingwece leswi ku nyikaka R20.

					
☐	☐	☐	☐	☐	☐
		☐			☐
☐	☐	☐	☐	☐	☐



Khakhuleta leswi landzelaka:

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



Ololoxa leswi landzelaka:

Ndzi na xingwece xa R2 na xingwece xa R5. Munghana wa mina u na swingwece swinharhu swa R2. I mani loyi a nga na mali yo tala?

Ndzi na R5 na xingwece xa RI. Munghana wa mina u na swingwece swinharhu swa R5. I mani loyi a nga na mali yo tala?



Ndzi na RI5:

Ndzi hakela

Cinci

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



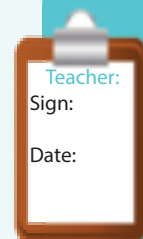
Khakhuleta leswi landzelaka:

Ndzi na RI5. Ndzi xava phakete ra machipisi hi R6. Xana ndzi sale na mali muni?



Yisa ehansi hi R2.

RII		R4	
RI2		R6	
RIO		R8	



11

12

13

14

15

16

17

18

19

20

23

Mali na cinci



Dirowa swingwece swo endla:

RII	
RI2	
RI3	
RI4	



Gwajula u tlhela
u tsala nhlamulo
leyi faneleke.

$$RI8 - R8 = \quad RIO$$



$$RI2 - R2 = \quad$$



$$RI5 - R4 = \quad$$



$$RI4 - R7 = \quad$$



Khakhuleta leswi landzelaka:

$RI5 - RIO =$	
$RI0 - RI - RI - R2 =$	

$R20 - R2 - R8 =$	
$R5 - R4 =$	

$R20 - R5 =$	
$RI0 - RI - R5 - R2 =$	

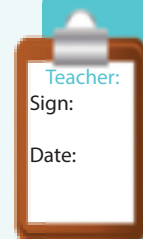
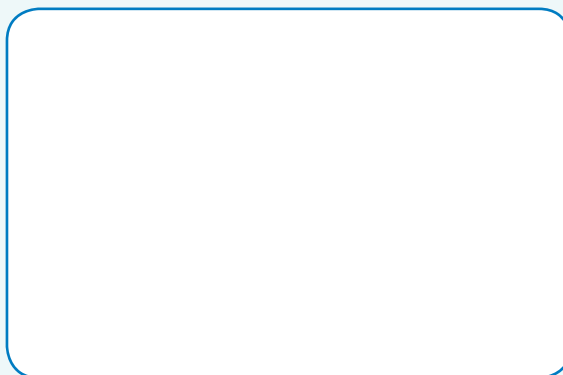


Khakhuleta leswi landzelaka:

Ndzi na R15. Ndzi xava hi:	Xana ndzi sale na mali muni?
R2 na R4 =	R9
R8 na R4 =	
R12 na R2 =	
R5 na R5 =	
R8 na R7 =	
R10 na R2 =	
R8 na R2 =	
R6 na R2 =	
R4 na R2 =	
R2 na R2 =	
R9 na R6 =	
R10 na R2 =	



Ndzi na R15. Ndzi xava xiphaketana xa malekere hi R11.
Dirowa xifaniso ku kombisa mali leyi ndzi saleke na yona.



11

12

13

14

15

16

17

18

19

20



25

Mali: ku hlanganisa na ku susa



Khakhuleta leswi landzelaka:

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

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

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



Khakhuleta leswi landzelaka:

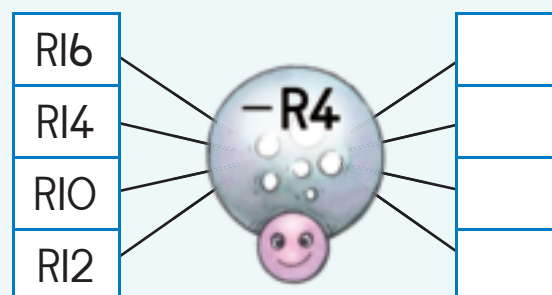
$R10 - R7 =$	
$R15 - R1 =$	
$R12 - R2 =$	
$R15 - R6 =$	

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

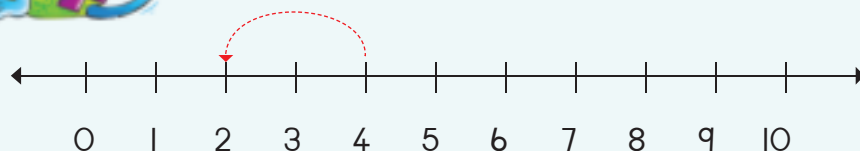
$R10 - R5 =$	
$R15 - R2 =$	
$R16 - R6 =$	
$R14 - R4 =$	



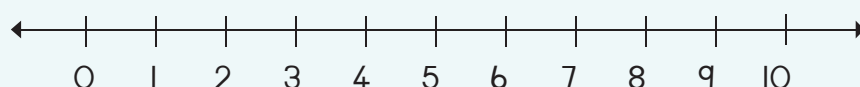
Pfuna pume ku hetisa tinhlayo hinkwato.



Yisa ehansi hi R2.



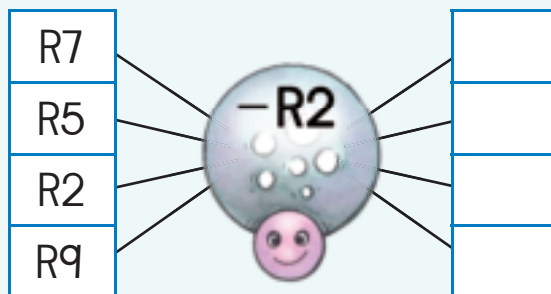
$$R4 - R2 =$$



$$R7 - R2 =$$



Pfuna pume ku endla tinhlayo hinkwato to susa.



Ololoxa leswi landzelaka.

A wu ri na R12. Manana wa wena u ku nyikile R5. Xana u na mali muni sweswi?

U na R19. U xava malekere hi R6. Xana u sale na mali muni?

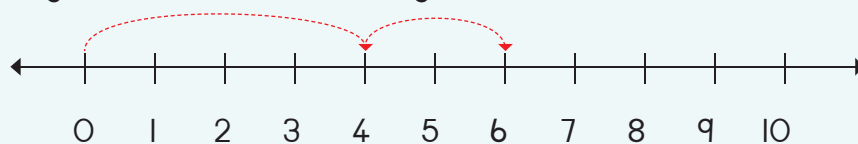


Xana ndzi hlayisile mali muni?

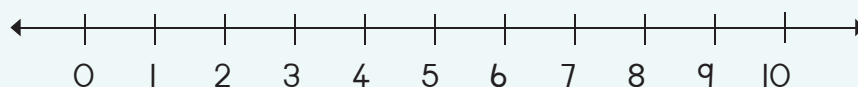


Kombisa ntsengo eka ndzhati wa mintsengo u tlhela u khakhuleta nhlamulo.

$R4 + R2 =$



$R8 + R2 =$



Teacher:

Sign:

Date:

11

12

13

14

15

16

17

18

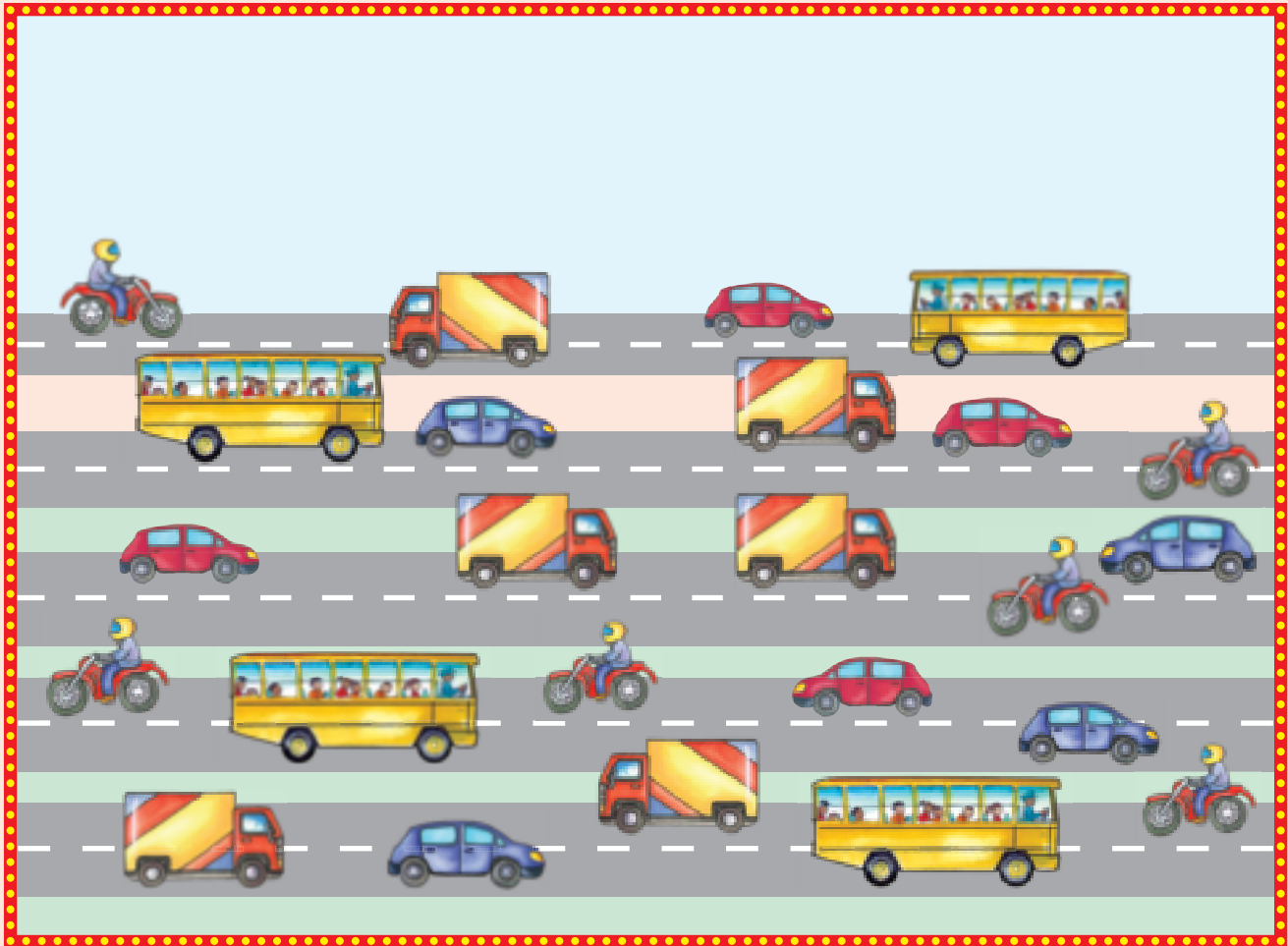
19

20

Switiviwa



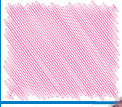
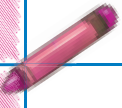
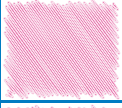
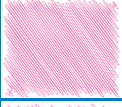
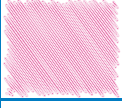
Hlayela leswaku ku na swingani swa rixaka rin'wana na rin'wana ra swifambo.





Hlayela swivumbeko u tlhela u khalara chati laha hansi ku kombisa leswaku ku na swingani swa rixaka rin'wana na rin'wana. Kutani hlamula swivutiso.



5						
4						
3						
2						
1						
						

_____ hi yona yi nga tala ngopfu.

_____ hi byona lebyi nga talangiki.

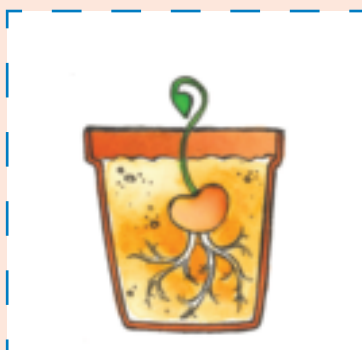
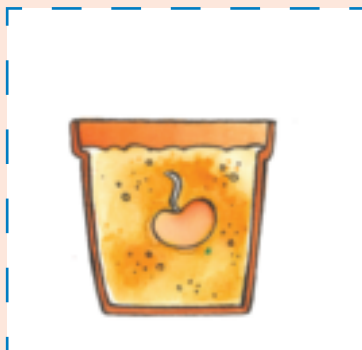
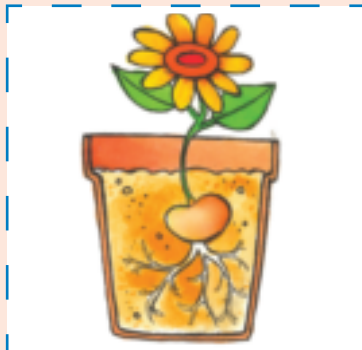
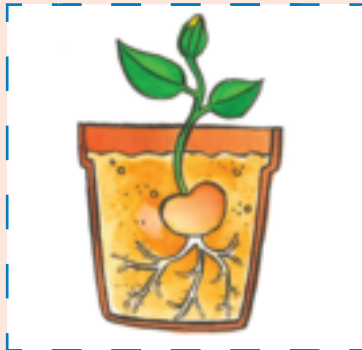


Teacher:
Sign:
Date:





Vulavula hi swifaniso leswi landzelaka kutani u swi veka hi ndzandzelelano lowu faneleke.



1



2



3



4



Tirhisa makhadi yo huma eka Xitsemiwa xa I ku hetisa girafu ya swifaniso.



--	--	--	--



Teacher:
Sign:
Date:



Mintlawa ya vuntlhanu ku fika eka 15

Mpfuxeto:

Titolovete ku tsala vito ra nomboro.

5

ntlhanu



Languta xifaniso lexi landzelaka kutani u hlamula xivutiso.

Languta xifaniso. Leswi hi swona
leswi hi nga tsarisaka xiswona:I mintlawa ya 5 yingani leyi
u nga kotaka ku yi endla?

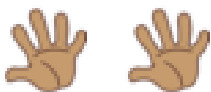
Dirowa xifaniso xa wena laha.



I ntlawa wa 5 i 5



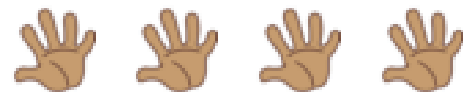
Hlayela tintiho kutani u tsala nhlamulo ya wena.



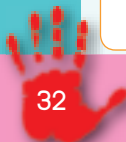
$$5 + 5 =$$



$$5 + 5 + 5 =$$



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

2 wa mintlawa
ya 5 i 10

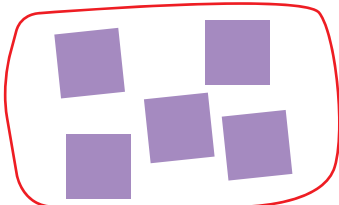


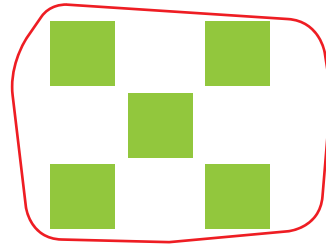
Dirowa swirhendzevutana eka leswi landzelaka ku endla:



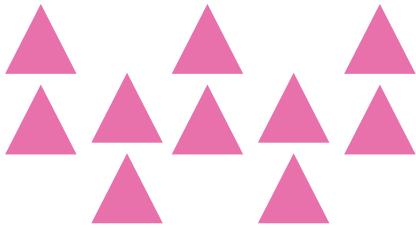
Tsala swivulwa swa tinomboro swa leswi landzelaka.

1 ntlawa wa 5



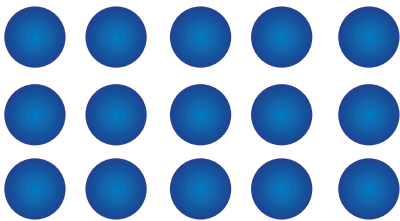


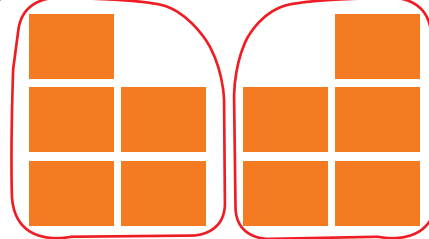
2 wa mintlawwa ya 5





3 wa mintlawwa ya 5







I mintlawwa ya ntlhanu yingani leyi u nga yi endlaka hi?

10	na	0		wa mintlawwa
8	na	2		wa mintlawwa
6	na	4		wa mintlawwa
4	na	1		wa mintlawwa
2	na	3		wa mintlawwa

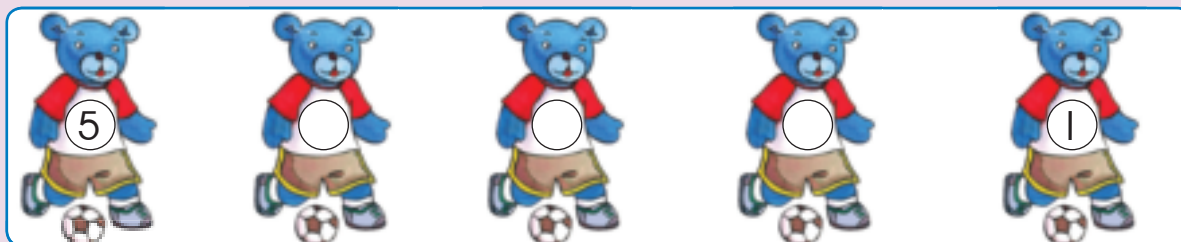




Vuntlhanu: ku hlanganisa ko vuyeleriwa ku fika eka 15

Mpfuxeto:

Mpfuxeto: Tatisa tinomoro leti siyiweke.



Ku na swikunwana swingani na tintiho tingani?
Tsala xivulwa xa tinomoro xa swona.



Dirowa:

Ntlawa wa mabanana ya ntlhanu

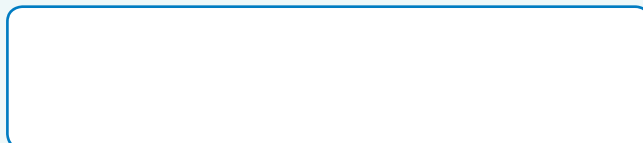
Mintlawa mimbirhi ya swiluva swa
ntlhanu eka ntlawa wun'wana na
wun'wana

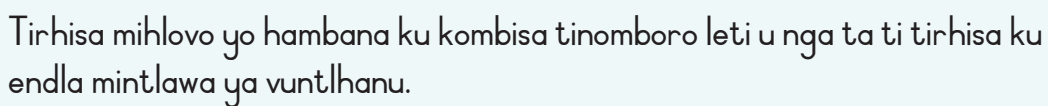
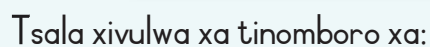
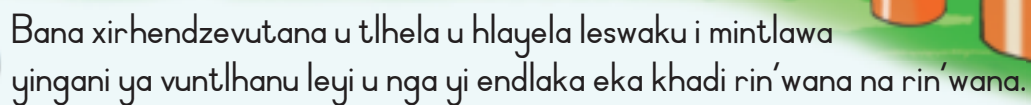


Dirowa swivumbeko swa leswi landzelaka.

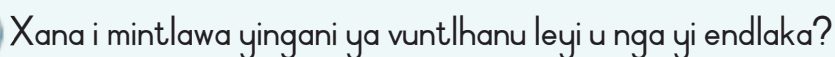
$$5 + 5 = 10$$

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

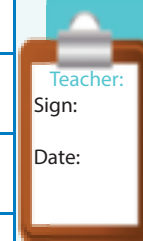




I	2	3	4	5	6	7	8	9	10
11	12	13	14	15					



1	na	14	swi endla		wa mintlaw
13	na	2	swi endla		wa mintlaw
8	na	2	swi endla		wa mintlaw
7	na	8	swi endla		wa mintlaw
9	na	2	swi endla		wa mintlaw





Vuntlhanu ku fika eka 15



Tatisa tinomboro leti siyiweke.

I		3		5		7	8	9	
II	12								

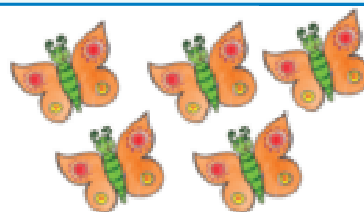
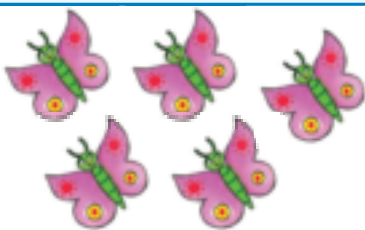
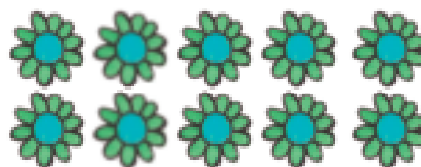


Endla mintlawe ya vuntlhanu. Xifufunhunu xin'wana na xin'wana xi na ntlawa wa mathonsi ya ntlawa ya ntlhanu eka rimpapa rin'wana na rin'wana. Dirowa mathonsi lama siyiweke.





Tsala xivulwa xa tinomboro xa xin'wana na xin'wana.



Khakhuleta leswi landzelaka:

$$0 + 5 = \square$$

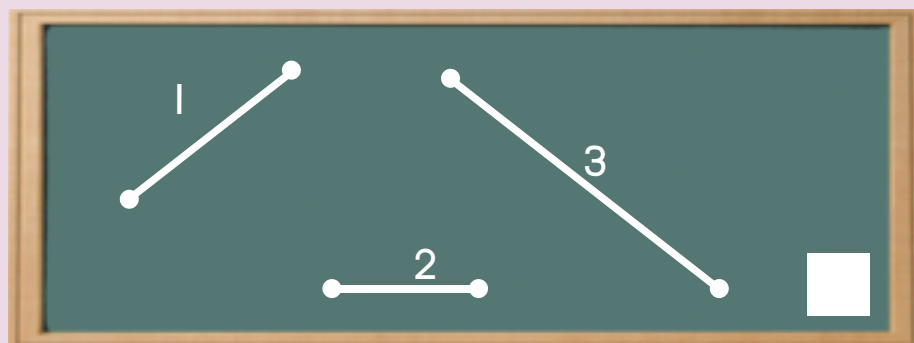
$$5 + 5 + 5 = \square$$

$$5 + 5 = \square$$

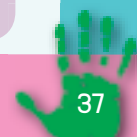
$$5 + 5 + 5 + 5 = \square$$

Mpfuxeto:

Mpfuxeto: Hi wihi ntila wo leha swinene?



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



Tipatironi ta tinomboro ta vuntlhanu ku fika eka 50

Kotara ya 3

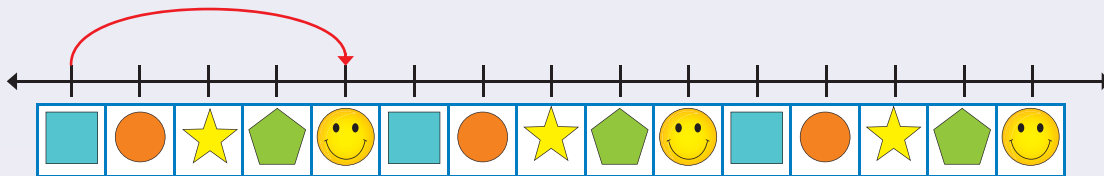


Hetisa patironi ya vuntlhanu hi ku khalara tinomboro.

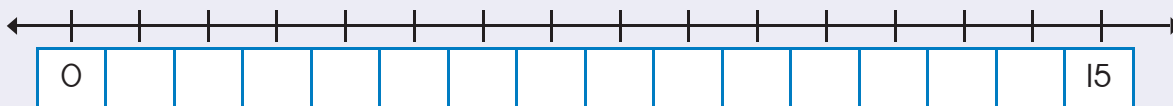
I	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Dirowa tihupu ku kombisa mintlawa ya vuntlhanu.

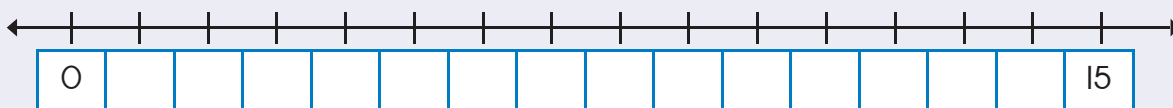


Tata tinomboro leti siyiweke u tlhela u dirowa tihupu ku kombisa mintlawa ya vuntlhanu.



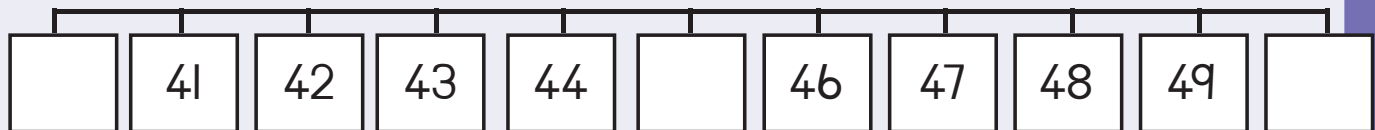
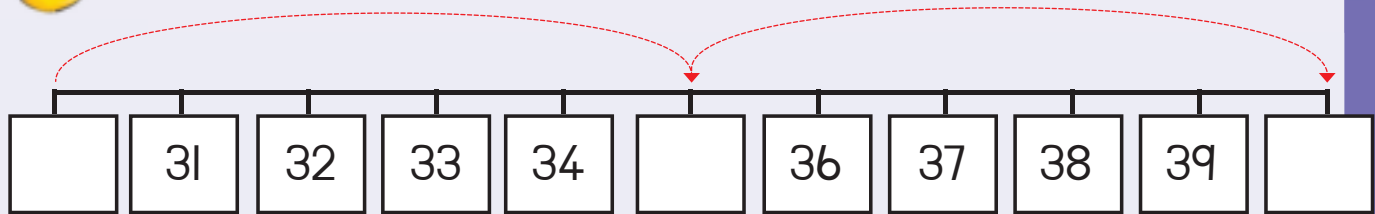
Hetisa ndzhati wa mintsengo. Dirowa tihupu ku kombisa mintlawa ya vuntlhanu.

Ku na wa mintlawa ya vuntlhanu.



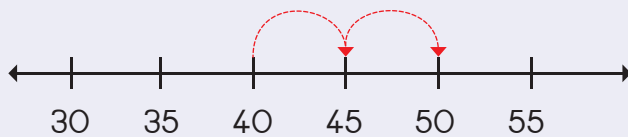


Tsema tinomboro leti siyiweke eka Xitsemiwa xa 2 kutani u ti veka eka mindzhati ya mintsengo.

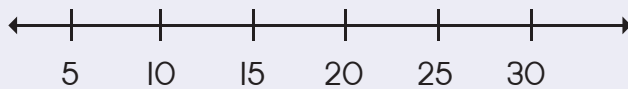


Dirowa tihupu ku kombisa tinomboro leti landzelaka:

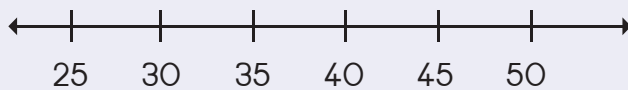
40, 45, 50



10, 15, 20



25, 30, 35



Teacher: _____
Sign: _____
Date: _____



11 12 13 14 15 16 17 18 19 20





Siku:

Tipatironi ta tinomboro ta vuntlhanu ku fika eka 80



Xana i mintlawo yingani ya vuntlhanu leyi u yi vonaka exifanisweni lexi landzelaka?



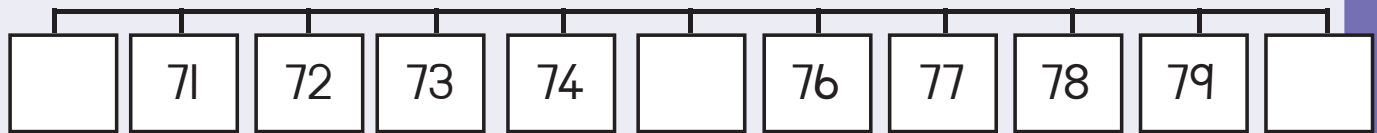
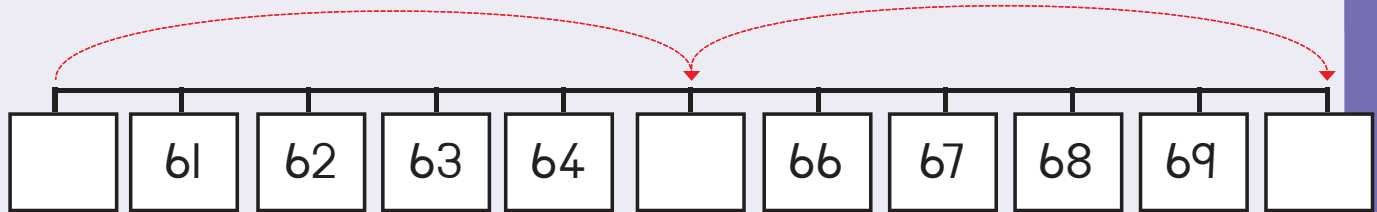
Hetisa swifaniso leswi landzelaka ku kombisa mintlawo mimbirhi ya vuntlhanu eka buloko yin'wana na yin'wana.



0 1 2 3 4 5 6 7 8 9 10

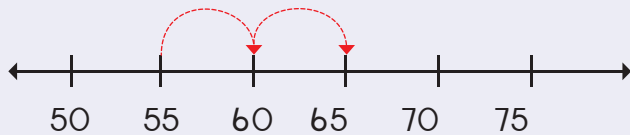


Tsema tinomoro leti siyiweke eka Xitsemiwa xa 2 kutani u ti veka eka mindzhati ya mintsengo.

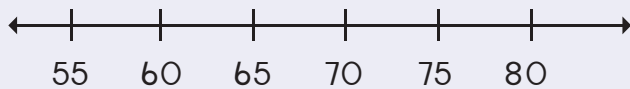


Dirowa tihupu ku kombisa leswi landzelaka:

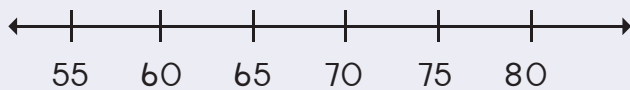
55, 60, 65



65, 70, 75



70, 75, 80



Teacher:
Sign:
Date:



Ku mbirhihata

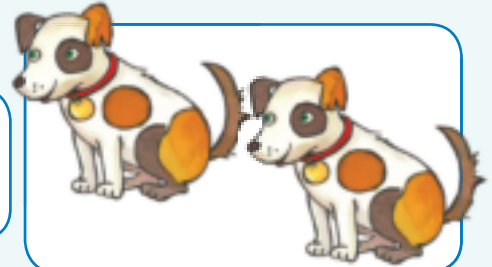
Kotara ya 3



Mbirhihata swilo leswi landzelaka kutani u tatisa nhlamulo.



1 loko yi
mbirhihatiwile i



4 loko yi
mbirhihatiwile i



5 loko yi
mbirhihatiwile i



Hlayela swivumbeko eka rin'wana na rin'wana ra timpapa ta phaphatani.
Hetisa swivulwa swa tinomboro leswi mbirhihatiweke.



$7 + 7 =$
kumbe
7 kambirhi =



$5 + 5 =$
kumbe
5 kambirhi =



$2 + 2 =$
kumbe
2 kambirhi =



Hetisa leswi landzelaka:

Xana u vona mavhilwa mangani?	Xana u vona mavhilwa mangani sweswi?	Xana ku na matandza mangani endzeni ka bokisi?	Xana u vona matandza mangani sweswi?
			



Hlayela mathonsi u tlhela u ya mbirihata.

	1	kambirhi →		2
	2	kambirhi →		
	3	kambirhi →		
	4	kambirhi →		
	5	kambirhi →		



Mbirihata tinomboro.

4	kambirhi →	8
5	kambirhi →	
6	kambirhi →	
3	kambirhi →	
2	kambirhi →	
10	kambirhi →	



Hetisa leswi landzelaka:

Xana ku na masiku mangani evhikini?	Xana ku na masiku mangani eka mavhiki mambirhi?																												
<table><tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	S	M	T	W	T	F	S								<table><tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	S	M	T	W	T	F	S							
S	M	T	W	T	F	S																							
S	M	T	W	T	F	S																							
Xana u vona minkondzo yingani?	Xana u vona minkondzo yingani sweswi?																												
																													



Hetisa leswi landzelaka:

$2 + 2 + 1 =$	5	kumbe	$2 \text{ kambirhi} + 1 = 5$
$4 + 4 + 1 =$		kumbe	
$7 + 7 + 1 =$		kumbe	

Teacher: _____
Sign: _____
Date: _____

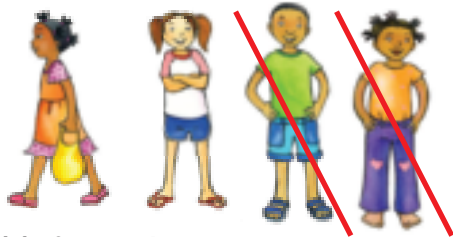


Siku:

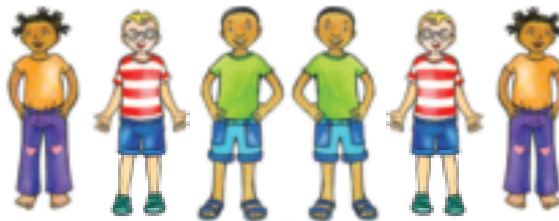
Tihafu



Bana nkhwati eka hafu ya vana kutani u tsala nhlamulo.



Hafu ya 4 i _____



Hafu ya 6 i _____



Hafu ya 2 i _____



Hafu ya 8 i _____



Bana nkhwati eka hafu kutani u tatisa nhlamulo.



Hafu ya 2 =



Hafu ya 4 =



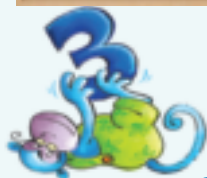
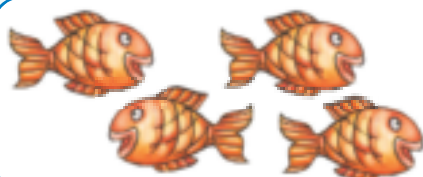
Hafu ya 6 =

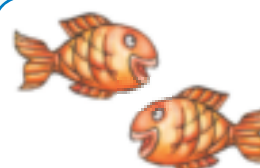


Hafu ya 8 =



Hafu ya 10 =

Ku na
tinhlampfi
tingani?

I yini
hafu ya
tinhlampfi?





Hlayela mathonsi u tlhela u ya hafula.

	2	hafu →		1
	4	hafu →		
	6	hafu →		
	8	hafu →		
	10	hafu →		



Hafula tinomboro.

4	hafu →	2
8	hafu →	
6	hafu →	
10	hafu →	
12	hafu →	
14	hafu →	



Xana ku na swivungu swingani?



Hafu ya swivungu i:





Hlamula leswi landzelaka:

Xana ku na milenge yingani?



Ku na milenge yingani sweswi?



Hi ri hafu ya 8 i



Teacher:

Sign:

Date:



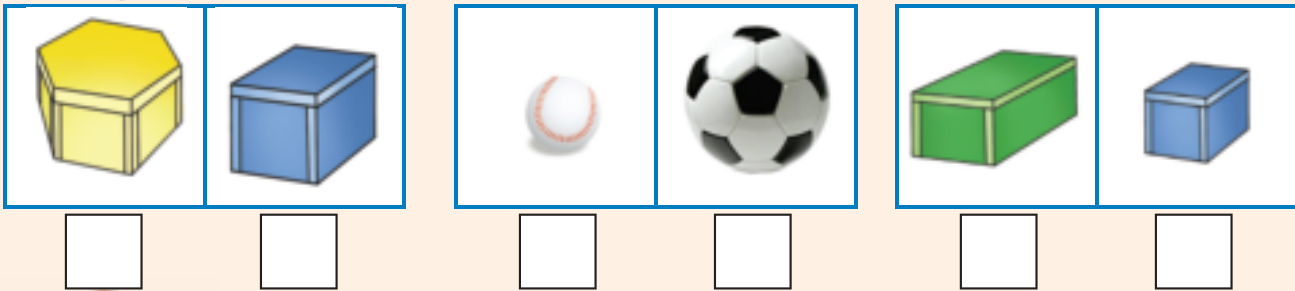


Siku:

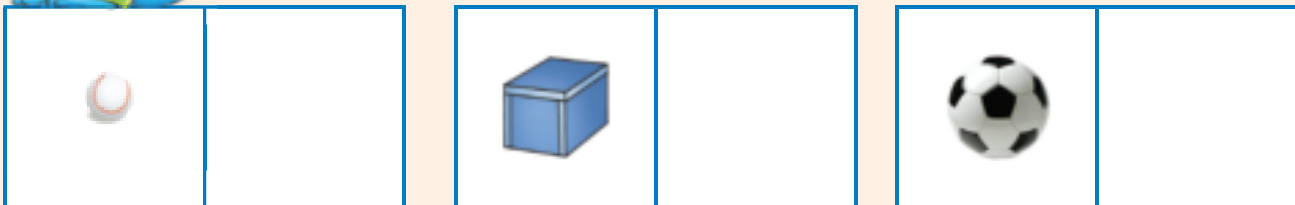
Minchumu ya 3 wa matlhelo



Gwajula nchumu lowutsongo.

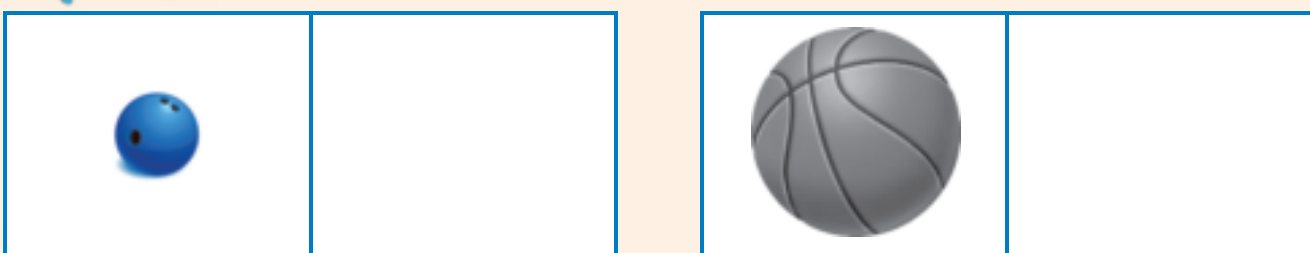


Dirowa nchumu lowukulu eka tlhelo ra xinene ra xifaniso xin'wana na xin'wana.



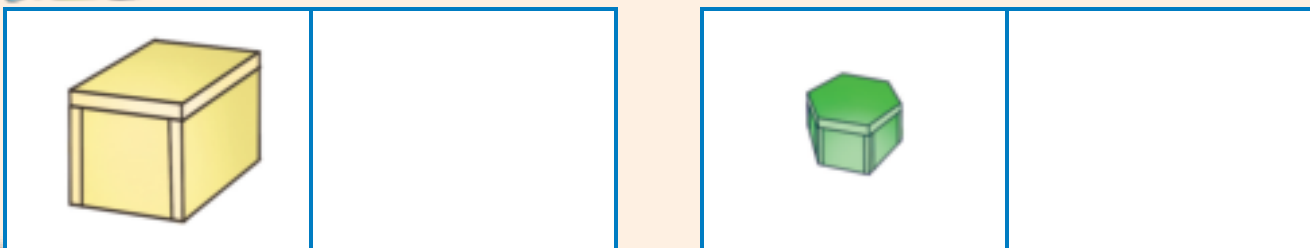
Dirowa bolo leyi nga yikulu ku tlula bolo ya wasi.

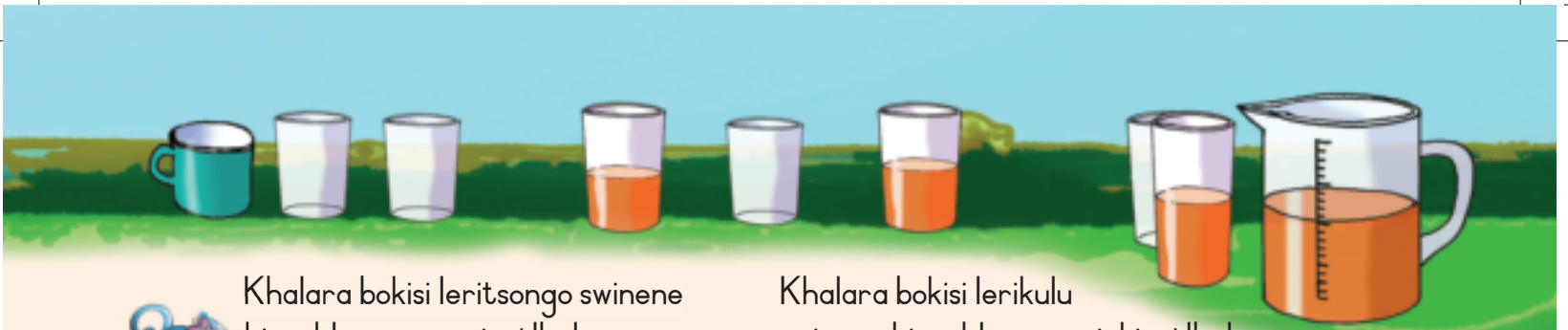
Dirowa bolo leyi nga yitsongo eka bolo ya mpunga.



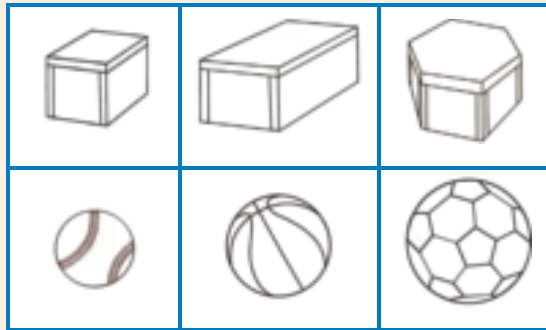
Dirowa bokisi leri nga ritsongo eka bokisi ra xitshopana.

Dirowa bokisi leri nga rikulu eka bokisi ra rihlaza.

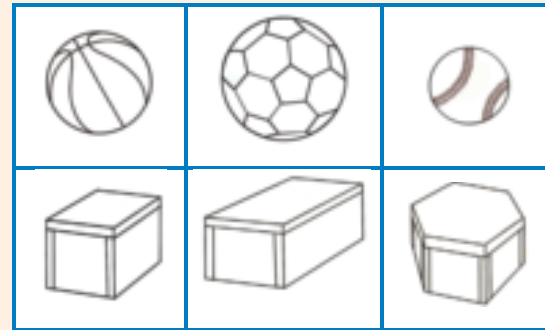




Khalara bokisi leritsongo swinene
hi muhlovo wa wasi u tlhela u
khalara bolo leyitsongo swinene
hi muhlovo wa xitshopana.



Khalara bokisi lerikulu
swinene hi muhlovo wa pinki u tlhela
u khalara bolo leyikulu swinene hi
muhlovo wo tshwuka.



Xana u nga aka
khokholo hi swilo
leswi landzelaka?
Khalara ina kumbe
e-e.



ina

e-e



ina

e-e



ina

e-e



Tsema u tlhela u namarheta swifaniso swo huma eka
magazini kumbe phephahungu ku endla makhokholo
ya wena mambirhi.

Tsundzuka leswaku
makhokholo ya fanele ku
balansa.



Teacher:
Sign:
Date:



Minchumu ya 3 wa matlhelo – Sayizi na ku khunguluka



Xana minchumu leyi yi ta khunguluka kumbe yi ta rheta?
Khalara nhlamulo leyi nga yona.



khunguluka

rheta



khunguluka

rheta



khunguluka

rheta



khunguluka

rheta



Leswi landzelaka swa koteka?
Khalara nhlamulo leyi faneleke.



ina

e-e



ina

e-e



ina

e-e



Hlawula minchumu leyi landzelaka hi ku yi dirowa endzeni ka buloko leyi faneleke.

	Tibolo	Mabokisi
---	--------	----------



Hlawula minchumu ku ya hi tisayizi hi ku yi dirowa.

	Tibolo letitsongo	Mabokisi lamatsongo
	Tibolo letikulu	Mabokisi lamakulu





Teacher:
Sign:
Date:



89



Siku:

Tipatironi ta jometiri

Mpfluxeto:

Dirowa leswi landzelaka:

xirhendzevutana

xikwere

yinhlamune



Hetisa patironi.



Dirowa ku ya emahlweni na patironi.



Dirowa patironi ya wena.

--



Namarheta swifaniso ku endla patironi ya wena.

--



Hetisa patironi.

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

11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



90



Siku:

Mintlawa ya mbirhi ku fika eka 15



Tsala vito ra mfungho lowu wa nomboro.

2

mbirhi



Hlamula swivutiso.



Xana u vona tiphengwini tingani?

Xana u vona tiphere tingani ta milenge?

Ti tsale tanihi xivulwa xa tinomboro:



Hlamula swivutiso.



Xana u vona tibuku tingani?

Xana ndzi nga endla mintlawa ya mbirhi yingani?

Yi tsale tanihi xivulwa xa tinomboro:



Tsala vito ra mfungho lowu wa nomboro.

4



Hlayela timpapa u tlhela u tatisa nhlamulo.



$$2 + 2 =$$



$$2 + 2 + 2 =$$



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

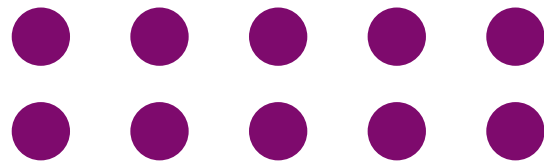


Dirowa swirhendzevutana eka leswi landzelaka ku endla:

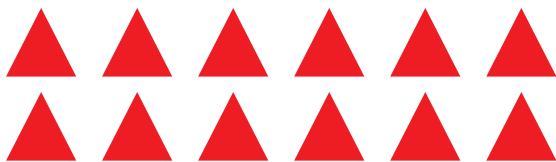
4 wa mintlawwa ya 2



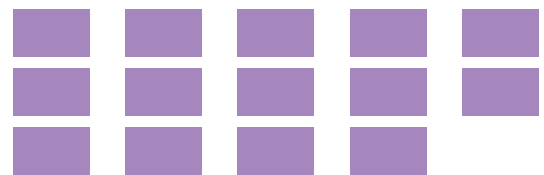
5 wa mintlawwa ya 2



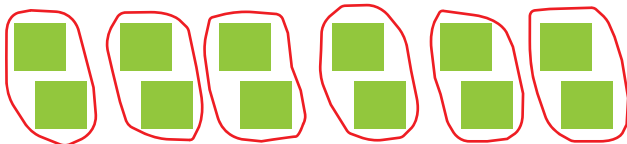
6 wa mintlawwa ya 2



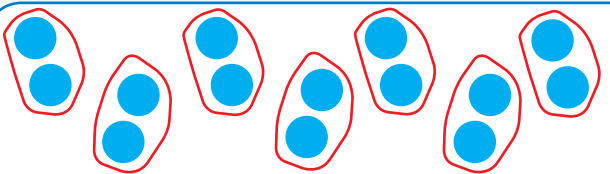
7 wa mintlawwa ya 2

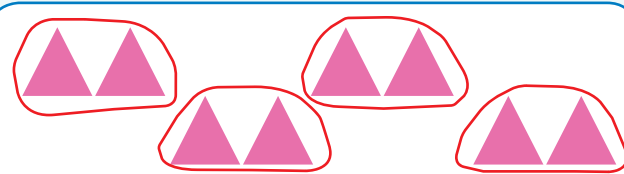


Tsala xivulwa xa tinomboro xa leswi landzelaka.











Xana ku na mintlawwa ya mbirhi yingani leyi u nga kotaka ku yi endla?

13 na 1 swi ta endla	wa mintlawwa
11 na 1 swi ta endla	wa mintlawwa
9 na 1 swi ta endla	wa mintlawwa
7 na 1 swi ta endla	wa mintlawwa

12 na 1 swi ta endla	wa mintlawwa
5 na 1 swi ta endla	wa mintlawwa
1 na 1 swi ta endla	wa mintlawwa
10 na 10 swi ta endla	wa mintlawwa

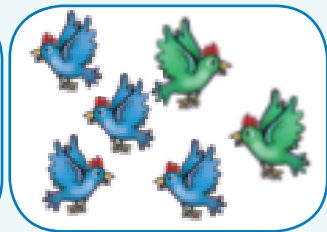
Teacher:
Sign:
Date:



Ku hlanganisa ko vuyelela mbirhi ku
fika eka 15



Xana ku na milenge yingani?



U yi hlayele hi ndlela yihl?



Dirowa swivumbeko ku kombisa leswi landzelaka:

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



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

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

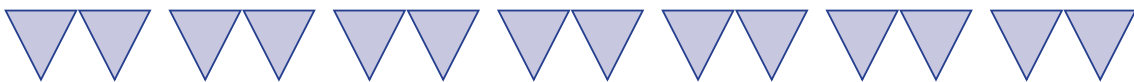
$$2 + 2 + 2 + 2 + 2 + 2 = \square$$



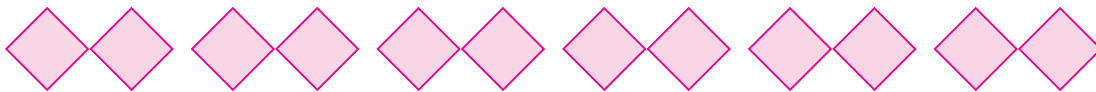
Tsala swivulwa swa tinomboro swa leswi landzelaka.



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









Bana xirhendzevutana u tlhela u hlayela leswaku i mintlawwa ya mbirhi yingani leyi u nga yi endlaka eka khadi rin'wana na rin'wana.









Hetisa patironi ya tinomboro leti u nga ti tirhisaka ku endla mintlawwa ya mbirhi.

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

II 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:

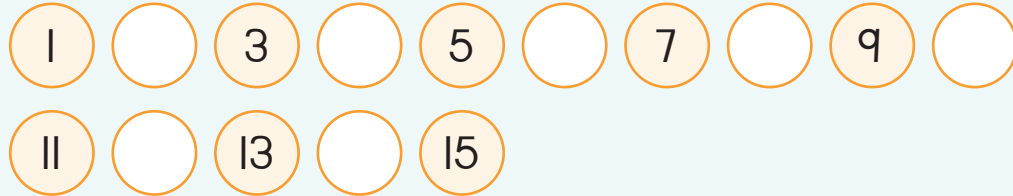




Vumbirhi ku fika eka 15

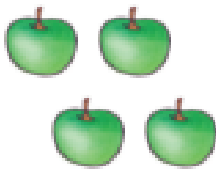


Tatisa tinomboro leti siyiweke.



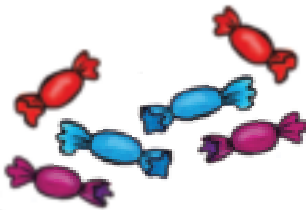
Endla mintlawa ya mbirhi.

Dirowa xirhendzevutana eka ntlawa wun'wana na wun'wana wa mbirhi.



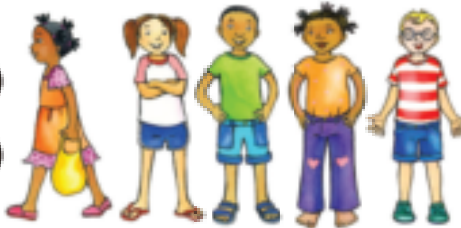
Xana ku na mintlawa yingani ya maapula?

N'wana un'wana na un'wana u ta kuma maapula mangani?



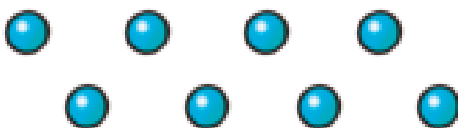
Xana ku na mintlawa yingani ya malekere?

N'wana un'wana na un'wana u ta kuma maapula mangani?



Xana ku na mintlawa mingani ya malamula?

N'wana un'wana na un'wana u ta kuma malamula mangani?



Xana ku na mintlawa yingani ya timabulu?

N'wana un'wana na un'wana u ta kuma timabulu tingani?



Tatisa tinomboro
leti siyiweke.

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



Tsala xivulwa xa tinomboro u tirhisa swimbirhi-mbirhi.

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



Khakhuleta leswi landzelaka:

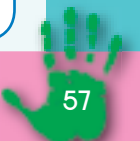
$2 + 2 + 2 =$	
$2 + 2 + 2 + 2 =$	
$2 + 2 + 2 + 2 + 2 =$	
$2 + 2 + 2 + 2 + 2 + 2 =$	
$2 + 2 + 2 + 2 + 2 + 2 + 2 =$	



Bana xirhendzevutana eka
mintlawe ya mbirhi eka ntila
wun'wana na wun'wana.



Teacher:
Sign:
Date:





Tipatironi ta tinomboro ta 2 ku fika eka 50



Tsema tinomboro leti sijiweke eka Xitsemiwa xa 2 kutani u ti namarheta eka ndzhathi wa mintsengo. Tlhela u hetisa na tihupu.

Kotara ya 3

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



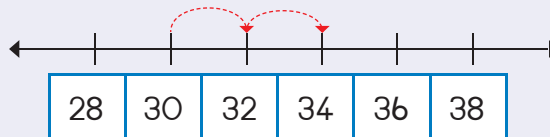
Hetisa patironi hi ku khalara tinomboro leti faneleke.

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

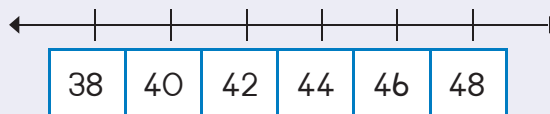


Dirowa tihupu ku kombisa leswi landzelaka:

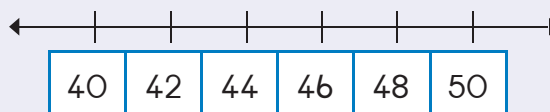
30, 32, 34



40, 42, 44



46, 48, 50





Tsema tinomboro leti siyiweke eka Xitsemiwa xa 2 kutani u ti namarheta eka ndzhati wa mintsengo. Hetisa tihupu.



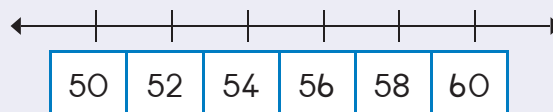
Hetisa patironi hi ku khalara tinomboro leti faneleke.

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

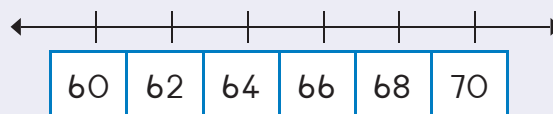


Dirowa tihupu ku kombisa leswi landzelaka:

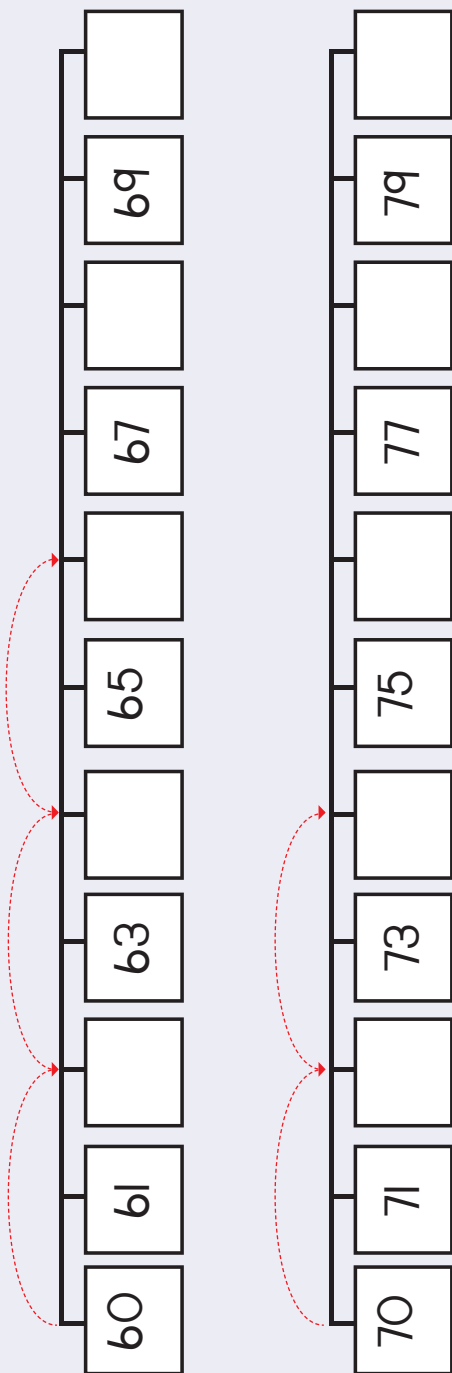
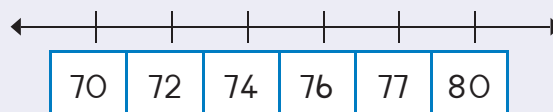
54, 56, 58



64, 66, 68

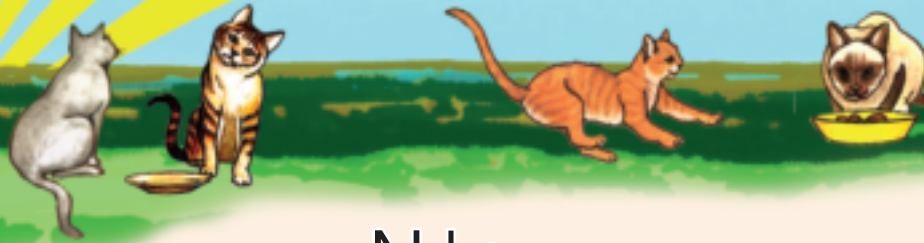


72, 74, 76



Teacher: _____
Sign: _____
Date: _____

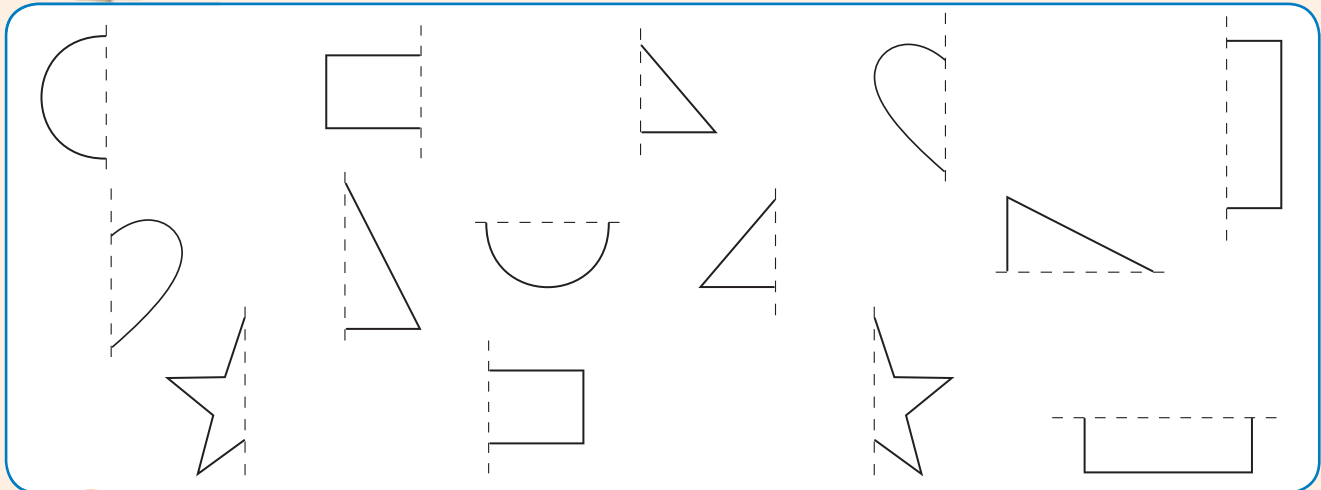




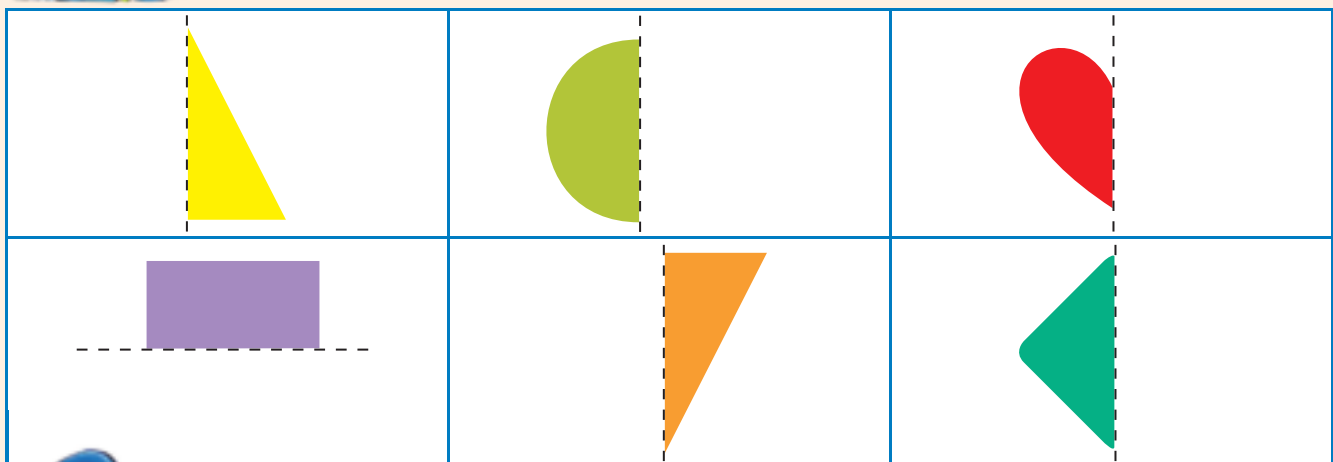
Ndzingano



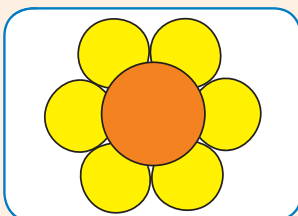
Khalara swiphemu swimbirhi swa swivumbeko leswi vumbaka xivumbeko xin'we.



Dirowa hafu yin'wana u tlhela u yi khalara.

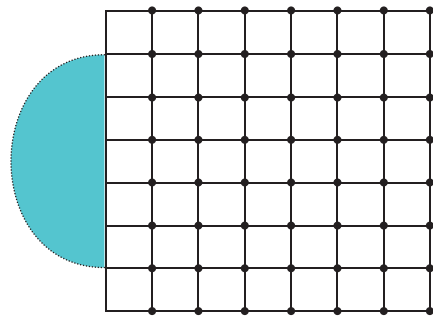
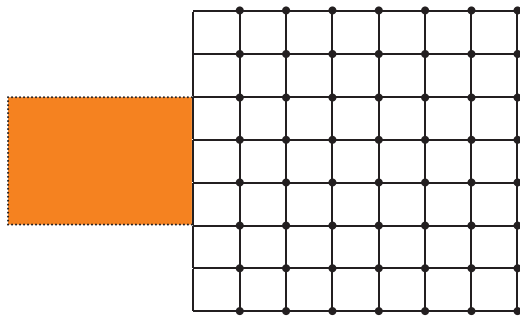
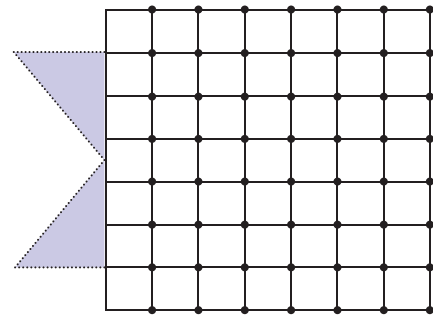
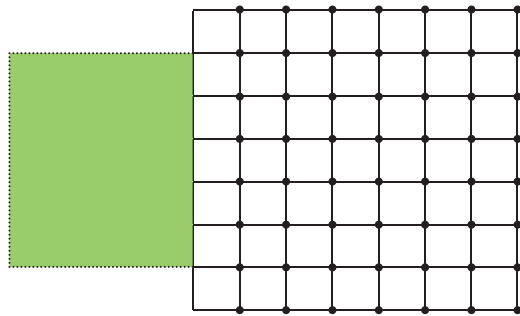
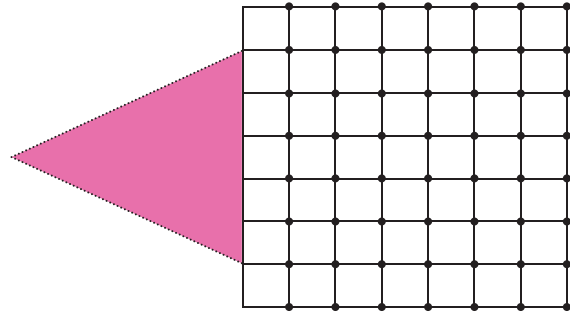
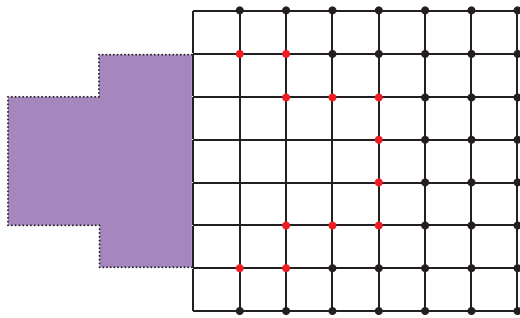


Dirowa ntila wo avanyisa swifaniso leswi landzelaka eka swiphemu swimbirhi leswaku matlhelo hinkwawo ya languteka hi ndlela leyi fanaka.

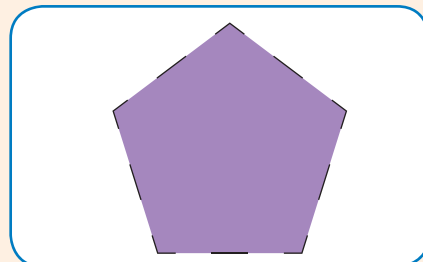
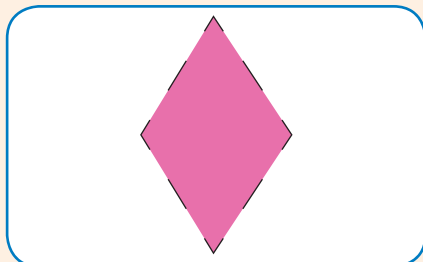
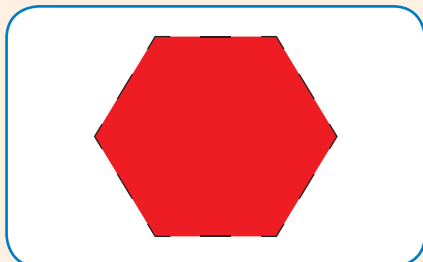




Dirowa hafu yin'wana ya xivumbeko u tirhisa bodo ya giridi ku ku letela.

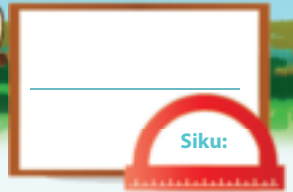


Dirowa ntila wo avanyisa swifaniso leswi landzelaka eka swiphemu swimbirhi leswaku matlhelo hinkwawo ya languteka hi ndlela leyi fanaka.



Teacher:
Sign:
Date:

95



Tinomboro na xiyimela - nkoka

Kotara ya 3



Tatisa tinomboro leti siyiweke.

10	11				15
9	10				



Tatisa tinomboro leti siyiweke.

6	7			10	11				15
15	14				10				6



Tatisa nhlamulo.

$10 + 1 =$	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



Khakhuleta nhlayo yin'wana na yin'wana ya muhlovo wo karhi kutani u khalaria xiphemu xa xiphazamiso lexi nga na nomboro leyi faneleke. Tirhisa muhlovo lowu fanaka. Hi ku endlele nhlayo yo sungula.



10 + 1 hi wo tshwuka



10 + 3 hi wa pinki



10 + 5 hi wa wasi



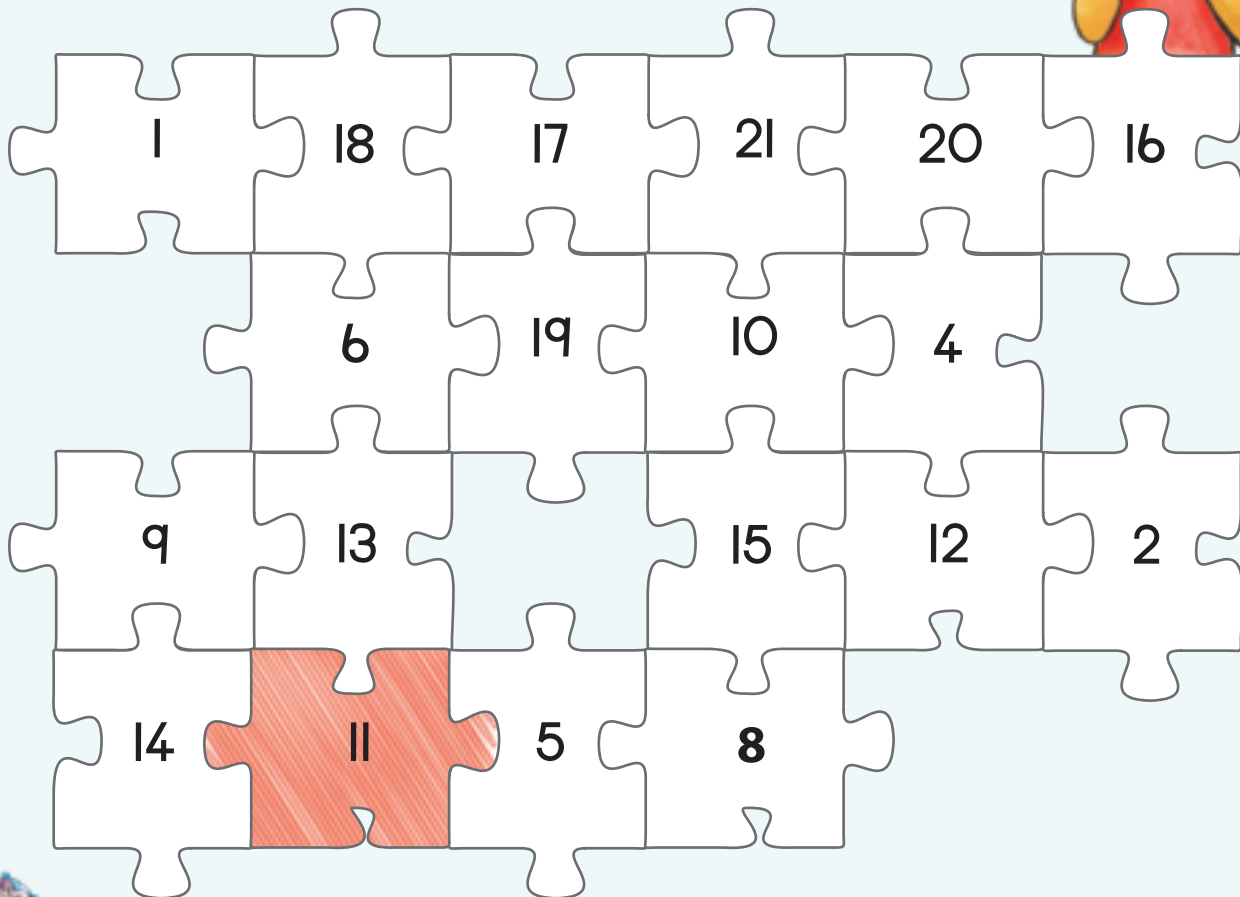
10 + 4 hi wa xitshopana



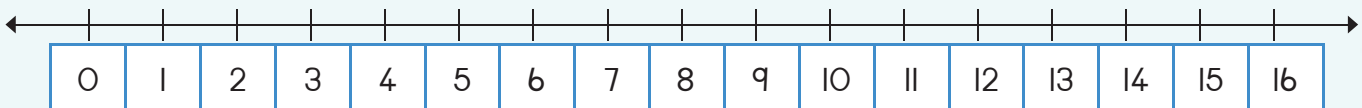
10 + 0 hi wa rihlaza



10 + 2 hi wa xilamula



Kombisa khume na mune eka ndzhati wa mintsengo.



11 12 13 14 15 16 17 18 19 20



96



Vulehi

Kotara ya 3



Pima vulehi na vuanami bya desika kumbe tafula u tirhisa ku leha ka xandla xa wena. I swandla swa wena swingani leswi ringanaka na vulehi bya tafula?

I swandla swingani eka vuanami?

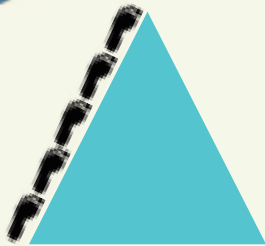


Vulehi byi ringana na _____ wa swandla.

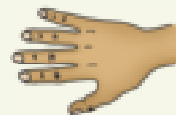
Vuanami byi ringana na _____ wa swandla.



I minkondzo yingani eka tlhelo rin'we?



Tatisa nhlamulo.



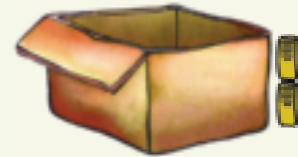
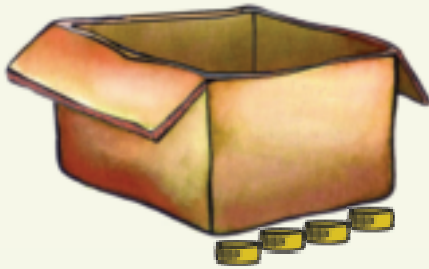
Vulehi i _____ wa swandla.



0 1 2 3 4 5 6 7 8 9 10



Hi byihi vulehi na vuanami bya bokisi leri?

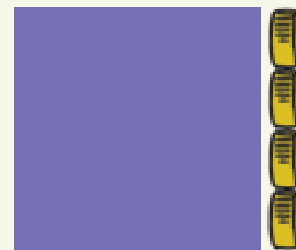
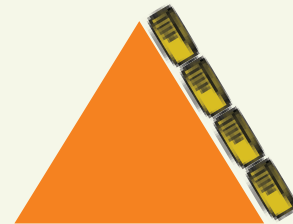


Vulehi i _____ wa swipfalo swa mabodhlela hi ku leha.

Vuanami i _____ wa swipfalo swa mabodhlela hi ku leha.



Xana tlhelo ri lehile ku ringana swipfalo swa mabodhlela swingani?



Teacher:
Sign:
Date:





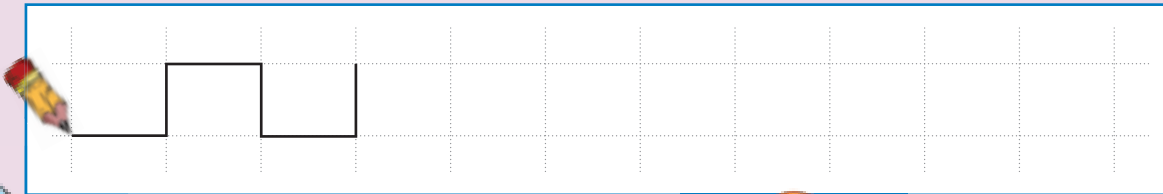
Nomboro ya 16

Mpfuxeto:

Titolovete ku tsala vito ra nomboro u tlhela u hetisa patironi.

7

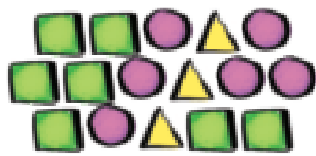
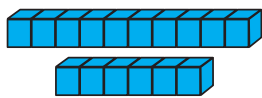
nkombo



Yelanisa swifaniso.



Landzelerisa tinomboro.



16 16 16 16

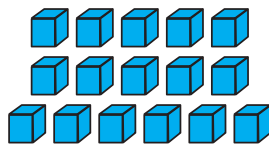
khumentsevu

16 16 16 16

khumentsevu



16

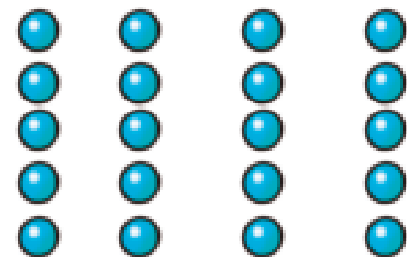


10

6



Bana xirhendzevutana eka 16 wa vuhlalu.



Xana ku sale vuhlalu byingani? ____



10

6





Dirowa 16 wa minchumu.

Sweswi yi dirowe
hi ndlela yo hambana.



Tatisa nomboro leyi siyiweke.

2	3	4
19		21
17		19



Hetisa tafula leri landzelaka. Rixaxa rin'wana na rin'wana
ri na xifaniso, nomboro na mfungho wa nomboro leyo.

	16	
		khumentsevu



Hi kuma yini loko hi yisa 16
ehansi hi n'we? _____

Hi kuma yini loko hi engetela
n'we eka 16? _____



Hi kuma yini loko hi yisa khumentsevu ehansi hi n'we?

Hi kuma yini loko hi yisa khumentsevu ehansi hi mbirhi?

Hi kuma yini loko hi engetela n'we eka khumentsevu?

Hi kuma yini loko hi engetela mbirhi eka khumentsevu?



Tatisa tinomboro leti siyiweke.

10	9		7	6		4	3		1

11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



98



Siku:

Nomboro ya 17

Mpfuxeto:

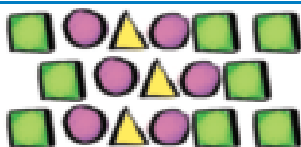
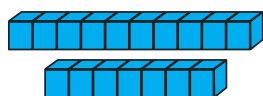
Titolovete ku tsala vito ra nomboro u tlhela u hetisa patironi.

8

nhungu



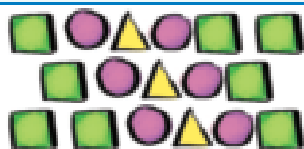
Yelanisa swifaniso.



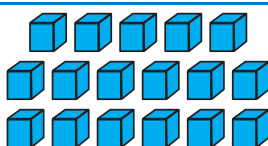
10

7

17



17



10

7



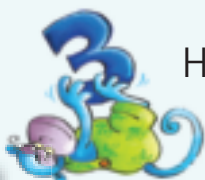
Landzelerisa tinomboro.

17 17 17 17

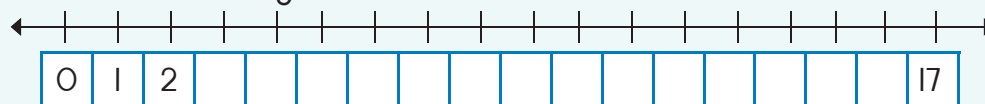
khumenkombo

17 17 17 17

khumenkombo



Hetisa ndzhati wa mintsengo.



68

0

1

2

3

4

5

6

7

8

9

10



Dirowa 17 wa minchumu.

Sweswi yi dirowe
hi ndlela yo hambana.



Hi yihi nomboro leyi
landzelaka?

16	17	
24	25	
17	18	



Hetisa tafula
leri landzelaka.
Rixaxa rin'wana
na rin'wana ri na
xifaniso, nomboro
na mfungho wa
nomboro leyo.

	17	
		khumenkombo



Hi kuma yini loko hi yisa khumenkombo ehansi hi n'we?	
Hi kuma yini loko hi yisa khumenkombo ehansi hi mbirhi?	
Hi kuma yini loko hi engetela n'we eka khumenkombo?	
Hi kuma yini loko hi engetela khumenkombo hi mbirhi?	



Tatisa tinomboro leti siyiweke.

Tinomboro leti ti vitaniwa
tinhlayo-fadzenga.

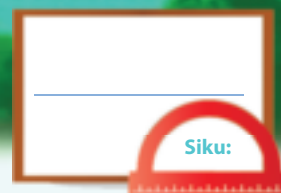
	2		4		6		8		10
	12		14		16		18		20



Teacher:
Sign: _____
Date: _____



11 12 13 14 15 16 17 18 19 20



Nomboro ya 18

Mpfuxeto:

Titolovete ku tsala vito ra nomboro u tlhela u hetisa patironi.

9	nhungu
---	--------



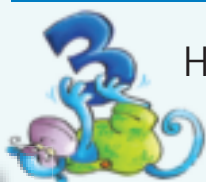
Yelanisa swifaniso.

10
8
18



Landzelerisa tinomboro.

18	18	18	18
khumenhungu			
18	18	18	18
khumenhungu			



Hetisa ndzhati wa mintsengo.



0 1 2 3 4 5 6 7 8 9 10



Dirowa 18 wa minchumu.

Sweswi yi dirowe
hi ndlela yo hambana.





Hi yihi nomboro leyi
taka endzhaku?

8	9	
33	34	
0	1	



Hetisa tafula
leri landzelaka.
Rixaxa rin'wana
na rin'wana ri na
xifaniso, nomboro
na mfungho wa
nomboro leyo.

	18	
		khumenhungu



Hi kuma yini loko hi yisa 18 ehansi hi n'we?

Hi kuma yini loko hi yisa 18 ehansi hi mbirhi?

Hi kuma yini loko hi engetela n'we eka 18?

Hi kuma yini loko hi engetela 18 hi mbirhi?



Tatisa tinomboro leti sijiweke.

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



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

100



Siku:

Nomboro ya 19

Mpfuxeto:

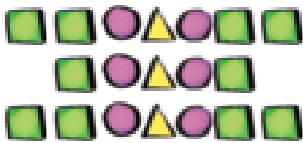
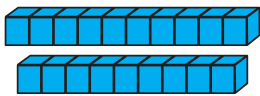
Titolovete ku tsala vito ra nomboro u tlhela u hetisa patironi.

10

khume



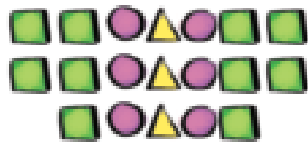
Yelanisa swifaniso.



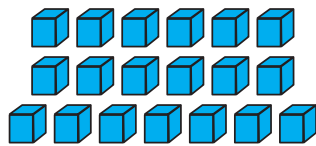
10

9

19



19



10

9



Landzelerisa tinomboro.

19 19 19 19

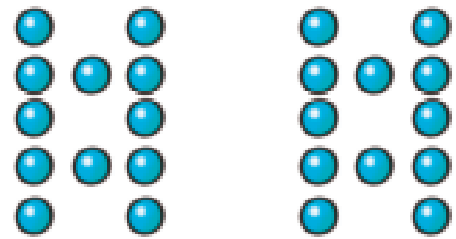
khumekaye

19 19 19 19

khumekaye



Bana xirhendzevutana eka 19 wa vuhlalu ntsena.



Xana ku sale vuhlalu byingani? ____



Sweswi yi dirowe hi ndlela yo hambana.

Sweswi yi dirowe hi ndlela yo hambana.



Hi yihi nomboro leyi taka exikarhi?

14		16
35		37
8		10



Hetisa tafula leri landzelaka. Rixaxa rin'wana na rin'wana ri na xifaniso, nomboro na mfungho wa nomboro leyo.

 	19	
 		
	 	khumekaye
		 



Hi kuma yini loko 19 yi va ehansi hi n'we?

Hi kuma yini loko 19 yi va ehansi hi mbirhi?

Hi kuma yini loko hi engetela 19 hi n'we?

Hi kuma yini loko hi engetela 19 hi mbirhi?



Tatisa tinomboro leti siyiweke.

I		3		5		7		9	
II		13		15		17		19	

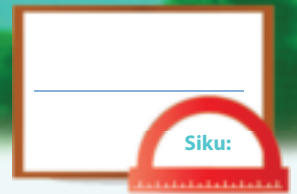
Tinomboro leti ti vitaniwa tinhlayo-ndzingano.

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



IOI



Nomboro ya 20

Kotara ya 4



Yelanisa swifaniso.

20

20



Landzelerisa tinomboro.

20 20 20 20

makumembirhi

20 20 20 20

makumembirhi



Bana
xirhendzevutana
eka 20 wa
vuhlalu ntsena.

Xana ku sale vuhlalu byingani? _____

Xana ku sale vuhlalu byingani? _____



Hetisa tafula leri landzelaka. Rixaxa rin'wana na rin'wana
ri na xifaniso, nomboro na mfungho wa nomboro leyo.

	20	makumembirhi
		makumembirhi
20		



Hi kuma yini loko hi yisa 20
ehansi hi n'we? _____

Hi kuma yini loko hi engetela
n'we eka 20? _____



0 1 2 3 4 5 6 7 8 9 10



Hlanganisa
nomboro na
vito ra yona.

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

- mune
- nkombo
- kaye
- nharhu
- khumen'we
- khumembirhi
- n'we
- mbirhi
- nhungu
- ziro
- ntlhanu
- ntsevu
- khumenharhu
- khume
- khumemune



Tatisa tinomboro leti siyiweke.

Emahlweni		Endzhaku
16	17	
	12	
	14	
	9	10
	6	



Tirhisa rito ra yitsongo na yikulu
ku hetisa leswi landzelaka.

35 i _____ eka 38
79 i _____ eka 65



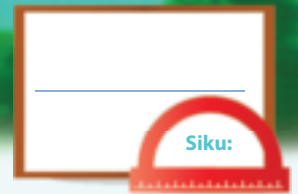
Teacher:

Sign:

Date:



11 12 13 14 15 16 17 18 19 20



Ku hlanganisa



Bana xirhendzevutana eka nomboro leyikulu eka buloko yin'wana na yin'wana.

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



Hlanganisa leswi landzelaka. Rhanga hi ku tsala nomboro leyikulu.

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



Hlanganisa tibuloko leti landzelaka.

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



Tsala xivulwa xa tinomboro xa leswi landzelaka:

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





Tsala xivulwa xa tinomboro xa xin'wana na xin'wana xa leswi landzelaka:



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

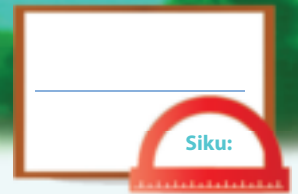


Tatisa tinomboro leti siyiweke.

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



Teacher: _____
Sign: _____
Date: _____

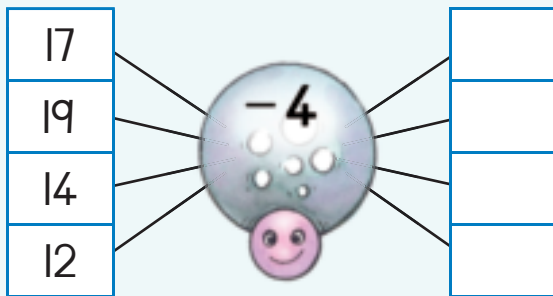


Ku susa

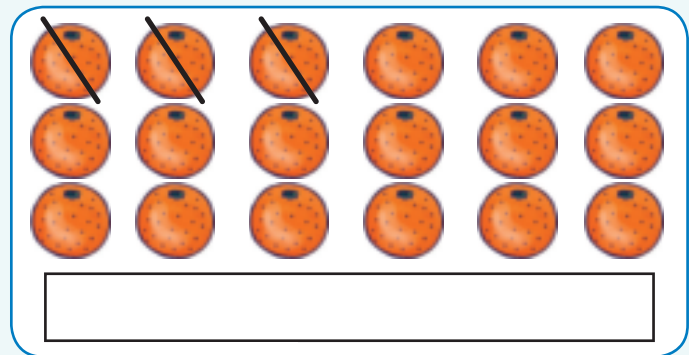
Kotara ya 4



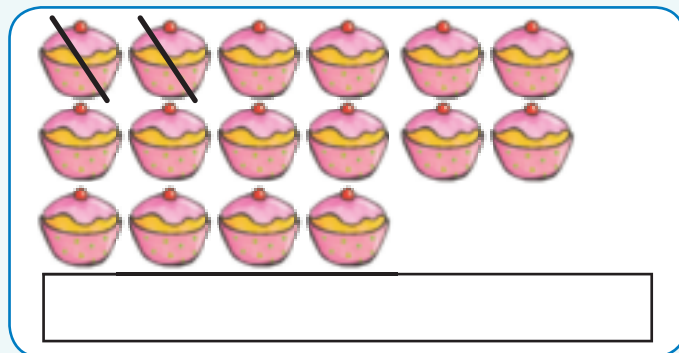
Khakhuleta.



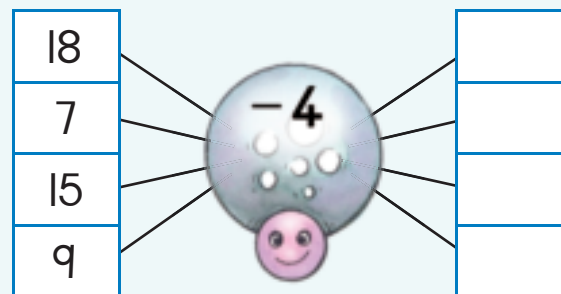
Tsala xivulwa xa tinomboro.



Tsala xivulwa xa tinomboro.



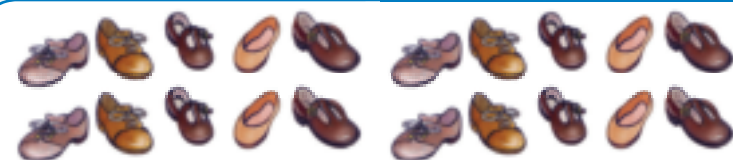
Khakhuleta.



Hetisa tinhlayo hi ku tirhisa swifaniso.



$$16 - \square = 11$$

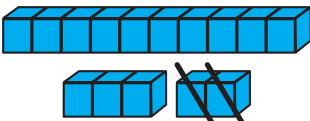
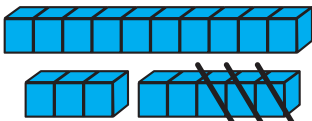
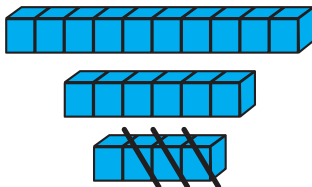


$$10 + \square = \square$$





Susa tibuloko.

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



Khakhuleta
leswi landzelaka:

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



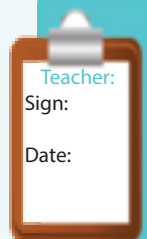
Hetisa leswi landzelaka:

5 kambirhi i		3 kambirhi i		4 kambirhi i	
7 kambirhi i		2 kambirhi i		8 kambirhi i	
10 kambirhi i		9 kambirhi i		1 kambirhi i	

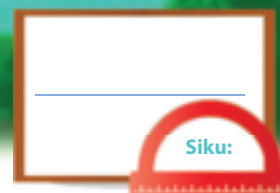


Hlamula leswi
landzelaka:

$9 + 9 - 1 =$		kumbe	Mbirhihata $9 - 1 =$	
		kumbe	Mbirhihata $5 - 1 =$	
$4 + 4 - 1 =$		kumbe		



11 12 13 14 15 16 17 18 19 20



Ku hlanganisa no susa



Hlayela leswaku i swimanga swingani leswi orheleke masana.

Nivusiku, swin'wana swi etlela endzhaku ka khumbi. Kuma leswaku i swingani leswi etlelaka endzhaku ka khumbi kutani u tsala nhlayo ya swona.

$$3 + \square = 8$$

$$4 + \square = \square$$


Ololoxa leswi landzelaka.

U nga dirowa xifaniso xo kota ku ku pfuna.



Lerato u na 4 wa malamula. Peter u n'wi nyikile 13 wa malamula.

Xana u na malamula mangani sweswi?

Mandla u na 5 wa tikhirayoni. Anne u na 8 wa tikhirayoni.

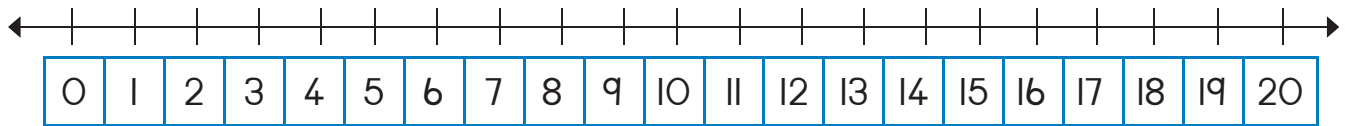
Xana i mani loyi a nga na tikhirayoni letitsongo?



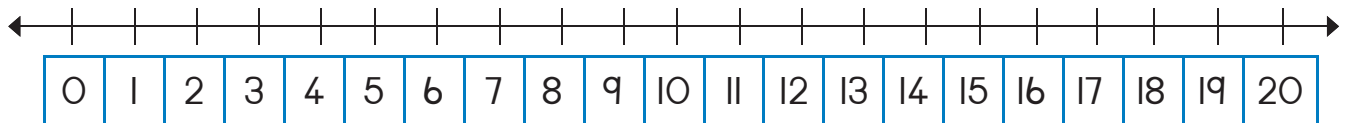


Tirhisa ndzhati wa mintsengo ku ololoxa leswi landzelaka:

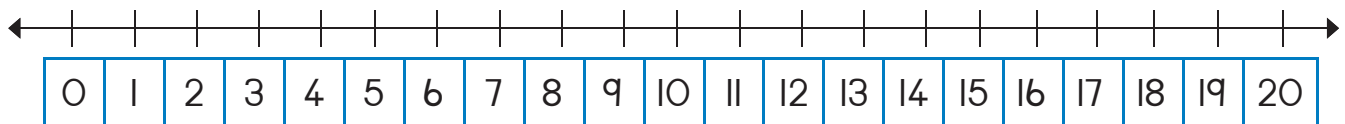
Thandi u na 6 wa timabulu ta rihlaza na 9 wa timabulu ta wasi.
Xana u na timabulu tingani?



Lerato u na 16 wa timabulu. Nhungu wa tona i ta rihlaza kasi hinkwato leti saleke i ta wasi. Xana Lerato u na timabulu tingani ta wasi?



Thandi u na 19 wa mabanana. Themba u na 10 wa mabanana.
Xana mabanana ya Thandi ya tlula ya Themba hi mangani?



Hi tihi tinomboro leti nga exikarhi ka 25 na 30?

Bana xirhendzevutana eka nomboro leyikulu eka 76 hi 1.

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

Bana xirhendzevutana eka nomboro leyikulu eka 76 hi 2.

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



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



Tinomboro to landzelelana

Kotara ya 4



I mani loyi a nga kuma xiyimo xo sungula eka mphikizano?
Tsala xiyimo ehansi ka vona.

Sipho



Lerato



2

John



3

Peter



Ann





Va dirowe va ri
exitejini.



I mani loyi a kumeke nsuku? _____

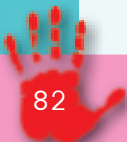
I mani loyi a kumeke silivhere? _____



Dirowa vuhlalu hi
ndlela leyi:

Vuhlalu byo sungula i bya wasi.
Vuhlalu bya vumbirhi i byo tshwuka.
Vuhlalu bya vunharhu i bya rihlaza.
Vuhlalu bya vumune i bya xitshopana.
Vuhlalu bya vuntlhanu i bya wasi.
Vuhlalu bya vuntsevu i byo tshwuka.
Vuhlalu bya vunkombo i bya rihlaza.
Vuhlalu bya vunhungu i bya xitshopana.
Vuhlalu bya vukaye i bya wasi.
Vuhlalu bya vukhume i byo tshwuka.

Vuhlalu bya mina.





Languta ndzandzelelano wa swivumbeko.
Kopunula swivumbeko eka tindhawu leti faneleke etafuleni.
Hi ku endlele xo sungula.



I xivumbeko xihlelexi nga:

Xa vumune		Xa vunkombo	
Xa vuntlhanu		Xa vukaye	
Xa vumbirhi		Xo hetelela	
Xa vunharhu		Xa vuntsevu	



Endla leswi landzelaka:



Khalara xirhendzevutana xo sungula hi muhlovo wo tshwuka.



Khalara xirhendzevutana xa vuntlhanu hi muhlovo wa xitshopana.



Khalara xirhendzevutana xa vunhungu hi muhlovo wa wasi.



Dirowa ndzhati wa mintsengo ya 10 ku fika eka 20.
Bana swirhendzevutana eka nomboro ya vunharhu na nomboro ya vunhungu.



Teacher:
Sign:
Date:



11

12

13

14

15

16

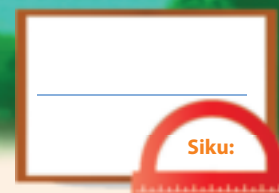
17

18

19

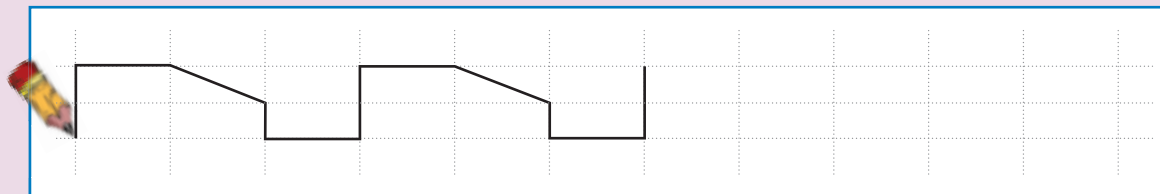
20

83



Mpfuxeto:

Mpfuxeto: Hetisa patironi.



Lava swifaniso swimbirhi swa bolo na swifaniso swimbirhi swa bokisi eka phephahungu kumbe magazini kutani u swi namarheta laha hansi.



Dirowa xirhendzevutana xa wasi eka minchumu leyi rhetaka.
Dirowa xikwere xo tshwuka eka minchumu leyi khungulukaka.





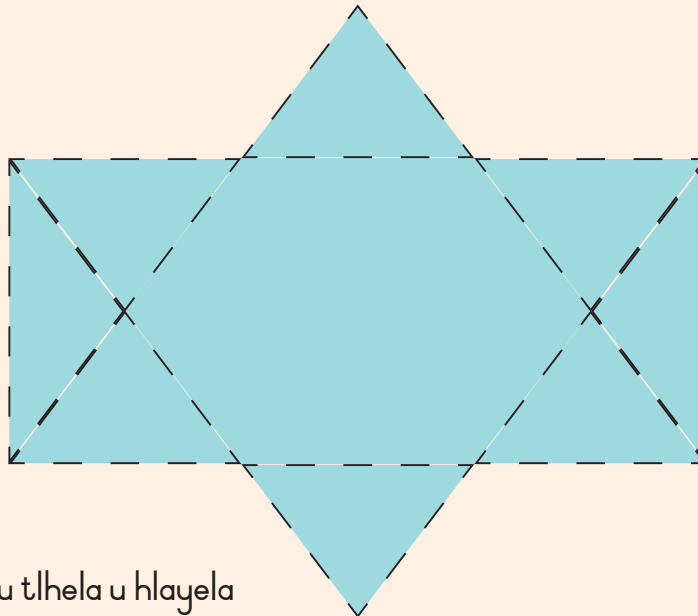
Landzelerisa rito kutani u dirowa nchumu wa kona.

bokisi

bolo



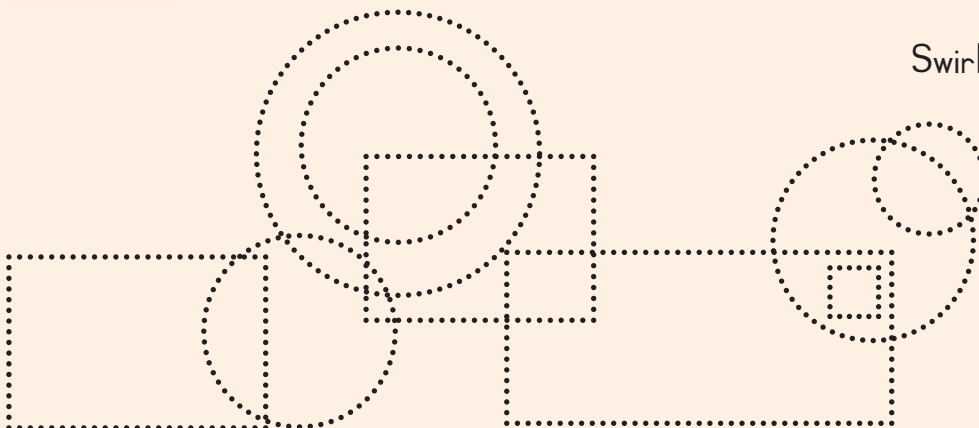
Hlayela tiyinhlanharhu hinkwato kutani u tsala nhlayo ya tona.



Nhlamulo:



Landzelerisa u tlhela u hlayela swivumbeko.



Swirhendzevutana



Swikwere



11 12 13 14 15 16 17 18 19 20

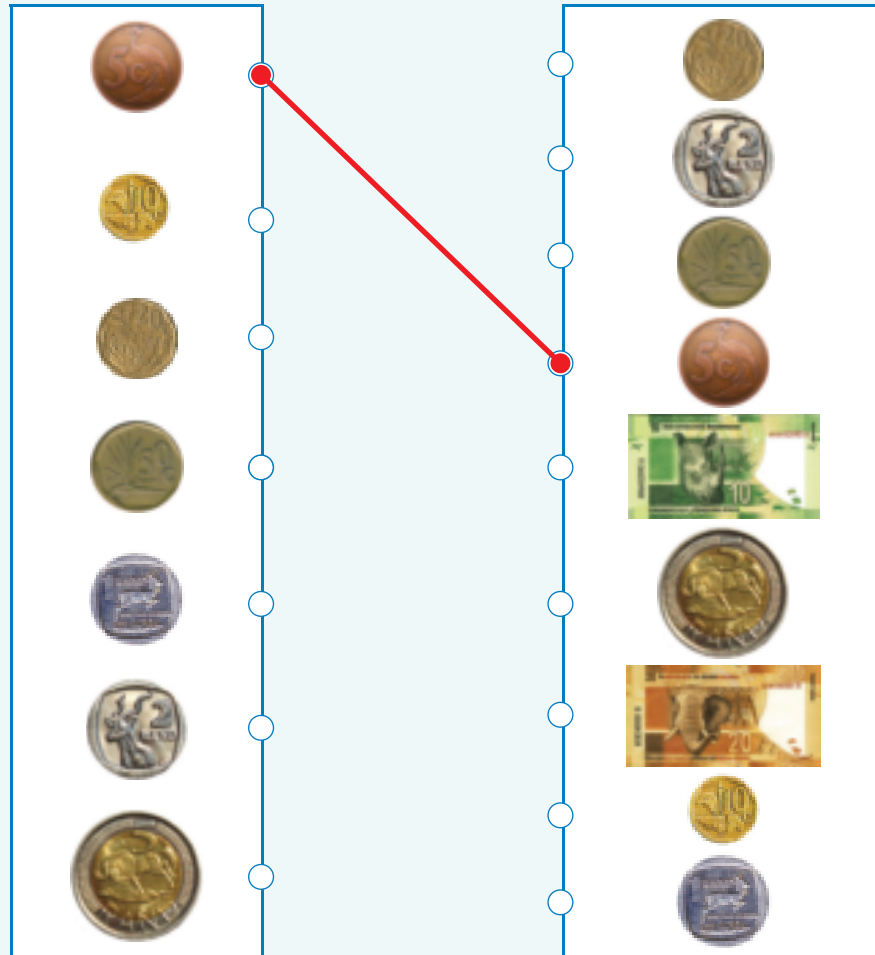


Mali

Kotara ya 4



Hi swihi
swingwece
leswi u nga swi
pananisaka?



Gwajula swingwece na mali ya maphepha eka buloko yin'wana na yin'wana
leyi nga ta ku nyika mintsengo leyi landzelaka.

R10		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
R20		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
R15		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐



Susa R2.



$$R12 - R2 = R10$$



Susa R5.



$$R15 - R5 = R10$$



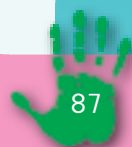
I mihlangano yingani yo hambana leyi u nga yi dirowaka ya R20?
Hi ku endlele wo sungula.



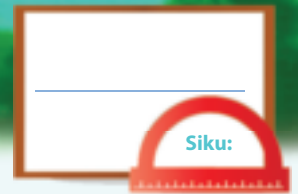
Bana xirhendzevutana eka
xingwece lexi u nga xavaka
swo tala hi xona eka ntila
wun'wana na wun'wana



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

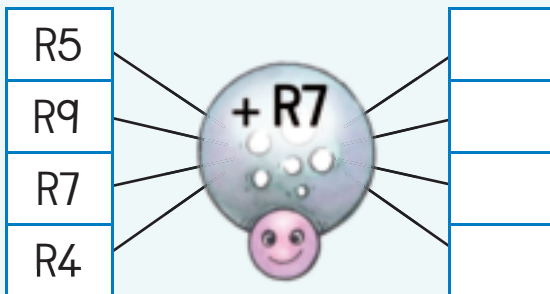


Mali yin'wana

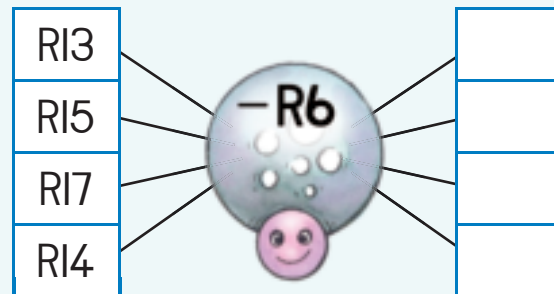
Kotara ya 4



Khakhuleta.



Khakhuleta.



Tatisa nhlamulo.

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



Hi yihi leyi nga tala?
Bana xirhendzevutana
eka nhlamulo ya wena.

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



Hlanganisa tinomboro leti hingakanyaka na tinomboro leti landzelelanaka ku ya ehansi kutani u tatisa tinhlamulo.

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





Languta xikombiso
endzhaku u hetisa
leswi saleke.

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



Jimisi u xavile xinkwa hi R8.
U xi hakelerile hi mali ya phepha ya RIO.
Xana u kumile cinci ya mali muni?

Hi xihi xivutiso?

Tsala tinomboro.

Tsala nhlayo u tlhela u yi khakhuleta.



Manana wa Busi u xavile
xigqhoko hi RI7. U hakerile
hi mali ya phepha ya tiRIO
timbirhi. Xana u kumile cinci ya
mali muni?

Hi xihi xivutiso?

Tsala tinomboro.

Tsala nhlayo u tlhela u yi khakhuleta.



Siku ra Judy ra ku velekiwa a ri ri hi
Sonto. U amukerile R5 yo huma eka
sesi wa yena, R2 yo huma eka buti
wa yena na RIO yo huma eka khazi
wa yena. Xana u kumile mali muni
loko yi hlanganile hinkwayo?

Hi xihi xivutiso?

Tsala tinomboro.

Tsala nhlayo u tlhela u yi khakhuleta.

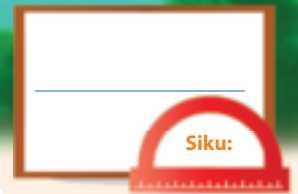


Teacher:

Sign:

Date:

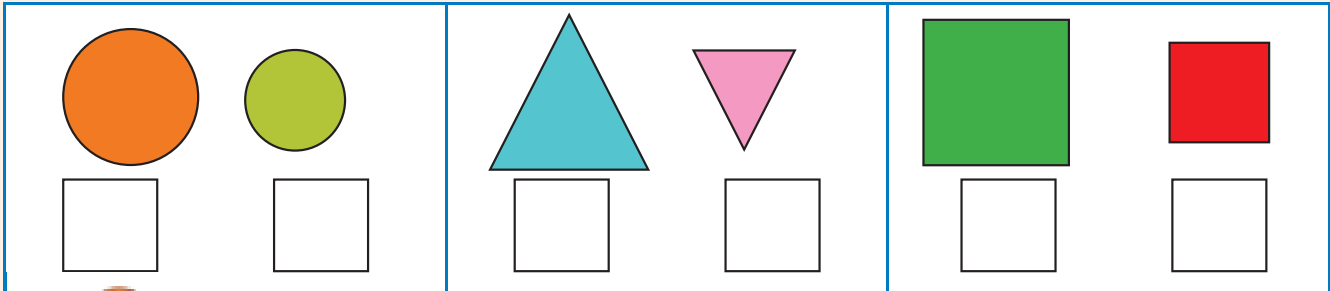




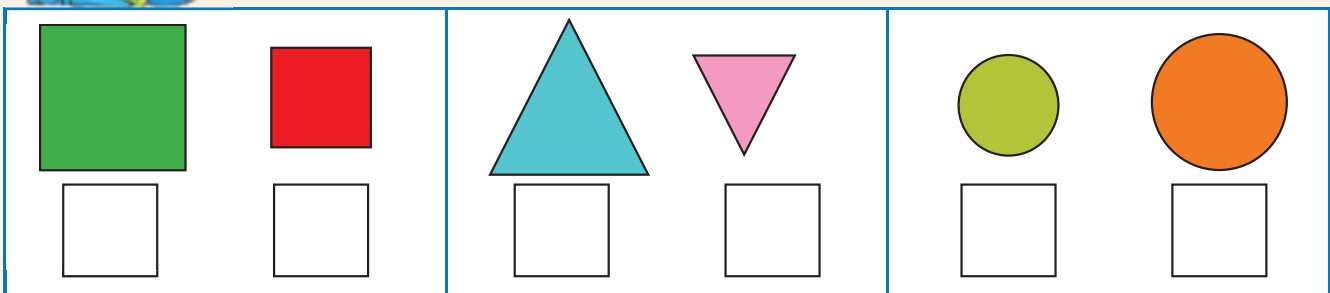
Swivumbeko swa 2 wa matlhelo



Gwajula xivumbeko lexisongo eka buloko yin'wana a yin'wana.

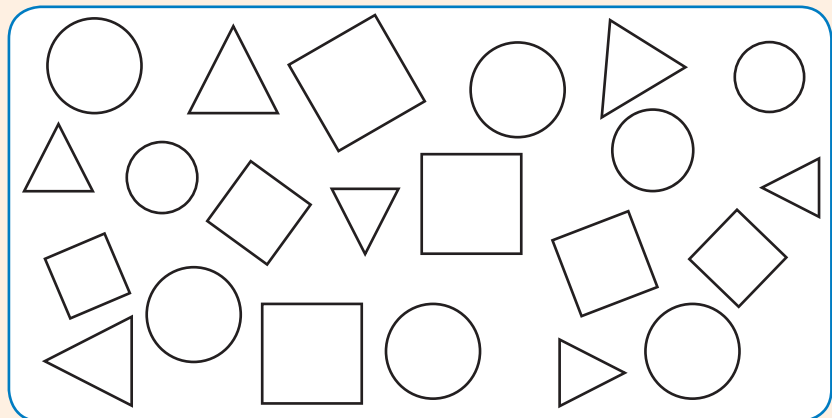


Gwajula xivumbeko lexikulu eka buloko yin'wana a yin'wana.

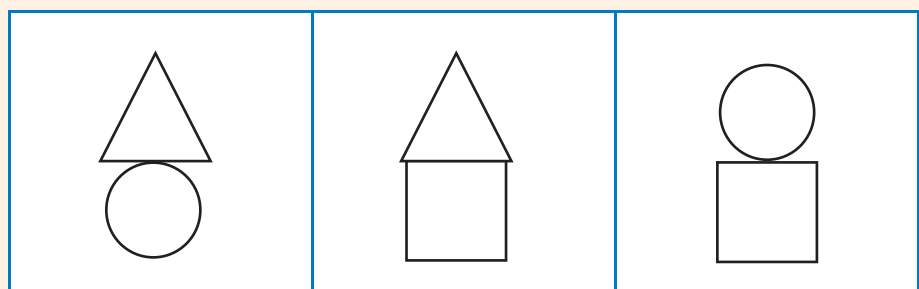


Khalara hinkwaswo:

- swikwere hi muhlovo wa wasi
- tiyinhlanharhu hi muhlovo wo tshwuka
- swirhendzevutana hi muhlovo wa rihlaza

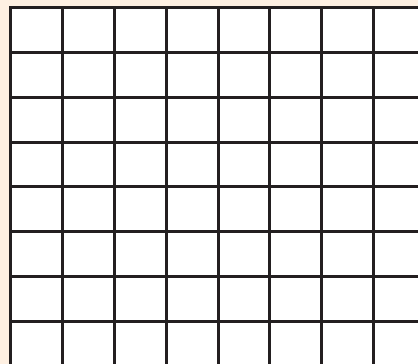
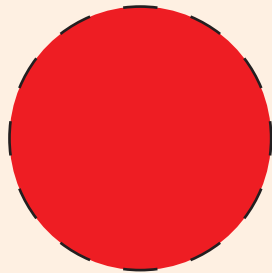
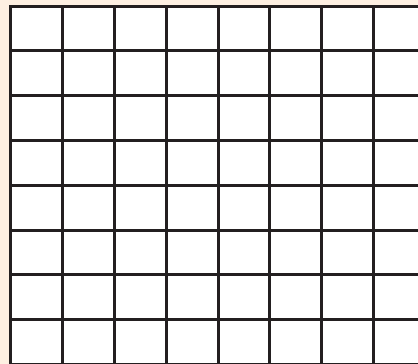
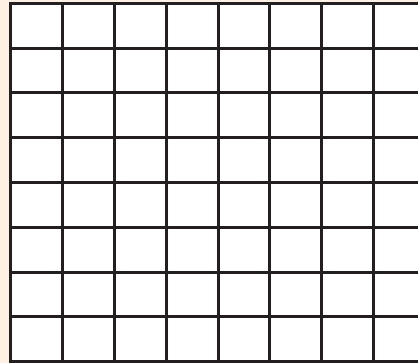
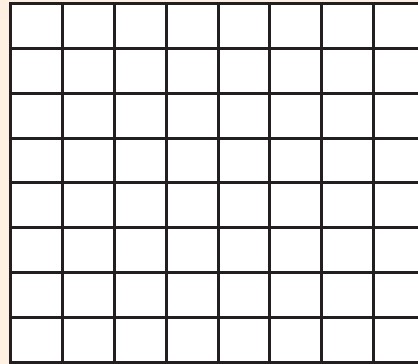
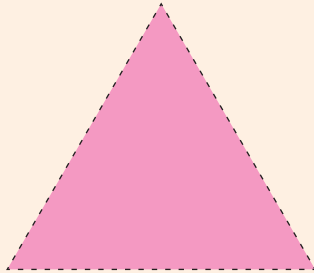


Endla xifaniso hi ku tirhisa swivumbeko. Hi sungule xifaniso hi 2 wa swivumbeko.



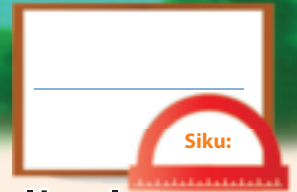


Dirowa swivumbeko endzeni ka giridi.
Tirhisa swikwere leswitsongo ku ku pfuna.



Teacher: _____
Sign: _____
Date: _____





Swivumbeko swa 2 wa matlhelo – matlhelo yo kongoma thwixi na matlhelo ya xirhendzevutana

Kotara ya 4



Landzelerisa swivumbeko leswi landzelaka.

 yinhlanharhu	 xirhendzevutana	 xikwere
 xirhendzevutana	 yinhlanharhu	 xikwere



Gwajula ku hlamusela loko xivumbeko xi ri na matlhelo yo kongoma thwixi kumbe matlhelo ya xirhendzevutana.

 matlhelo ya xirhendzevutana ☐ matlhelo yo kongoma thwixi ☐	 matlhelo ya xirhendzevutana ☐ matlhelo yo kongoma thwixi ☐	 matlhelo ya xirhendzevutana ☐ matlhelo yo kongoma thwixi ☐
---	---	---



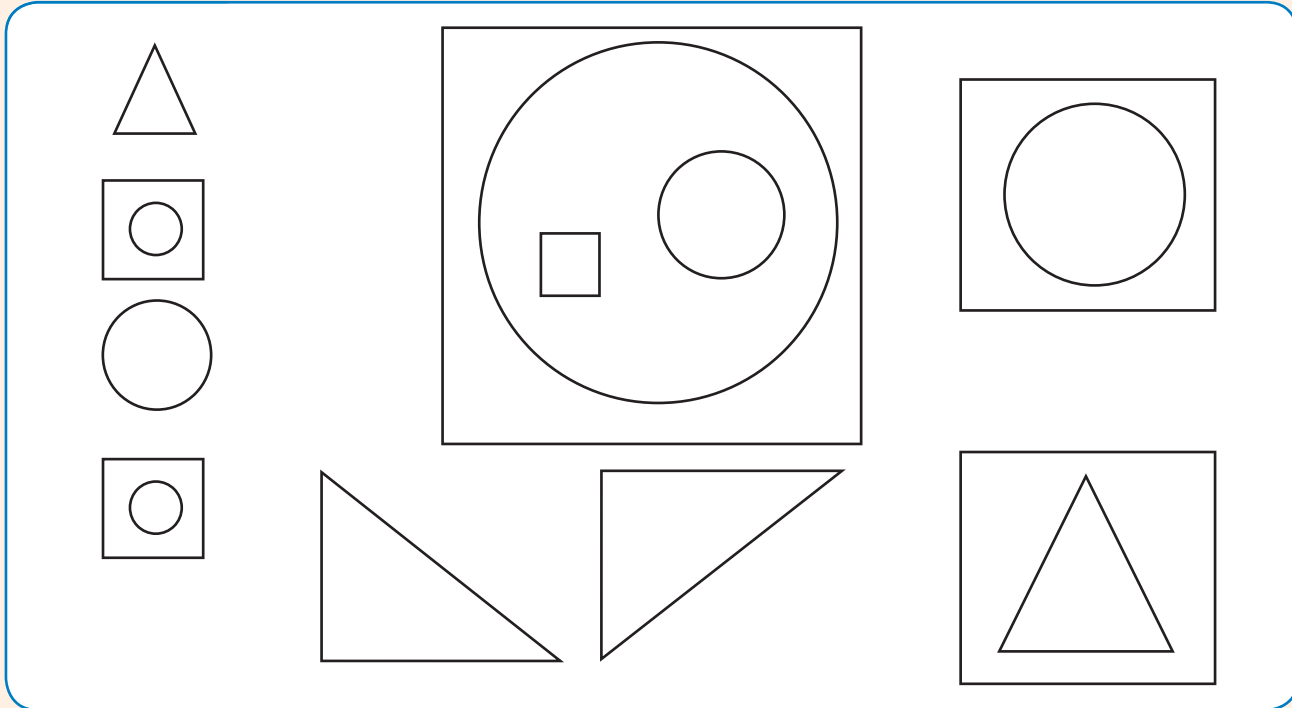
Dirowa xivumbeko lexi nga na:

matlhelo yo kongoma thwixi	matlhelo ya xirhendzevutana
----------------------------	-----------------------------





Hlayela nhlayo ya swirhendzevutana, swikwere na tiyinhlanharhu.



Xirhendzevutana



Xikwere



Yinhlanharhu



Lava xifaniso eka magazini kumbe phephahungu lexi nga na:

matlhelo ya xirhendzevutana

matlhelo yo kongoma thwixi

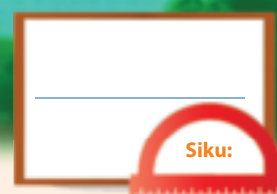


Teacher:

Sign:

Date:

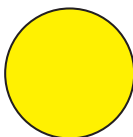
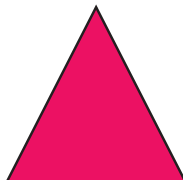
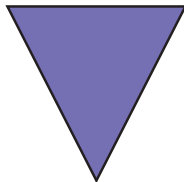
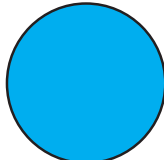




Swivumbeko swin'wana swa 2 wa matlhelo



Nyika mavito ya swivumbeko leswi landzelaka:

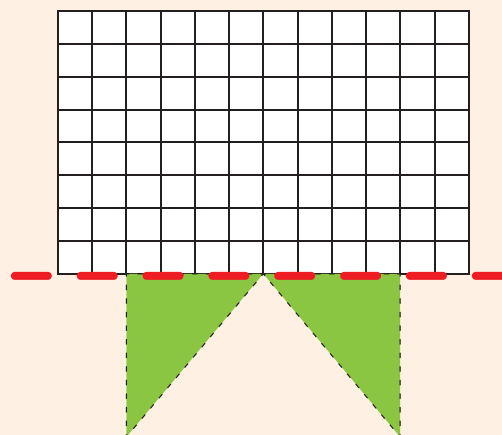
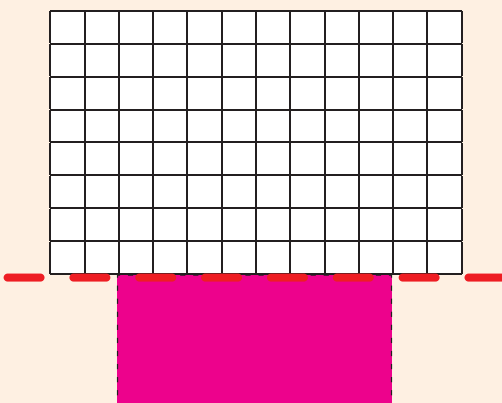
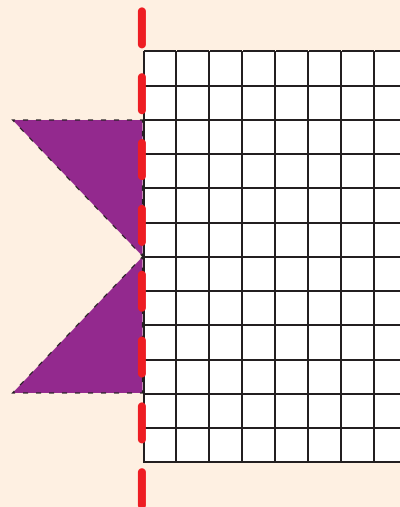
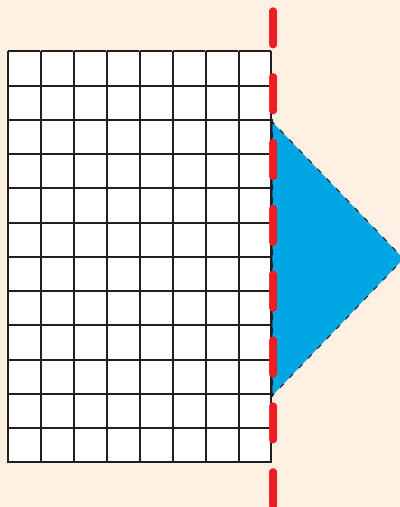
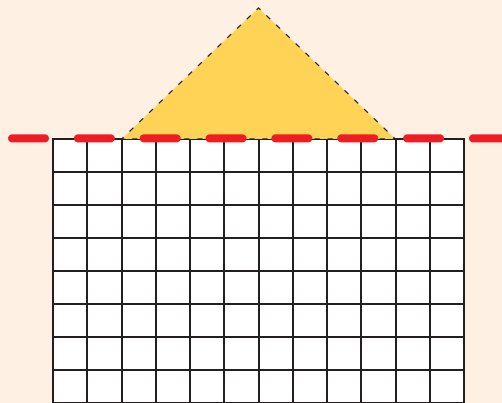
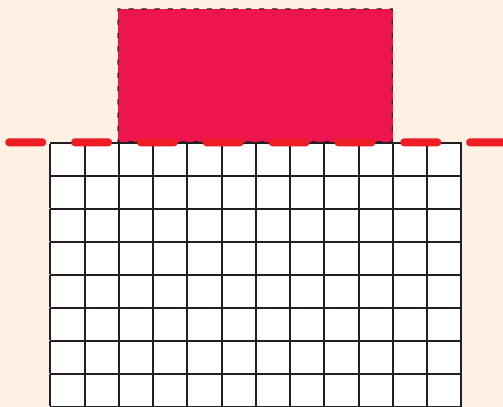


Dirowa xifaniso u tirhisa swirhendzevutana, tiyinhlanharhu na swikwere ntsena.





Dirowa hafu yin'wana ya xivumbeko xin'wana na xin'wana.
Tirhisa swikwere leswitsongo ku ku pfuna.



Hinkwaswo swi na matlhelo yo kongoma thwixi ya xirhendzevutana .



Teacher:
Sign:
Date:





Mintlawa ya vuntlhanu ku fika eka 20



Dirowa swirhendzevutana ku endla mintlawa ya vuntlhanu.
Xana u na mintlawa yingani ya vuntlhanu?

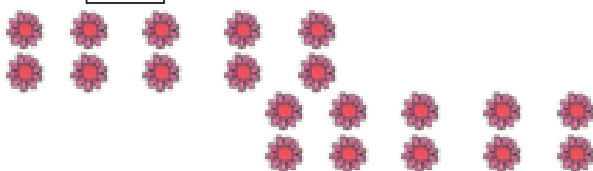
1 ntlawa wa 5



wa mintlawa ya 5



wa mintlawa ya 5



wa mintlawa ya 5



Hlayela nhlayo ya tintiho. Tsala nhlamulo ya wena.



$$5 + 5 + 5 =$$



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



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

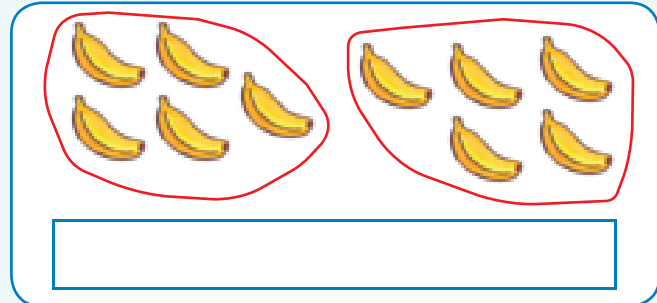
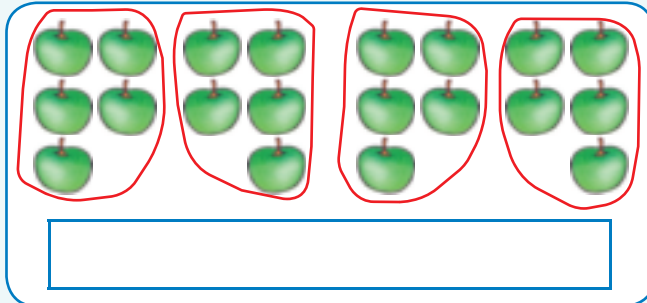
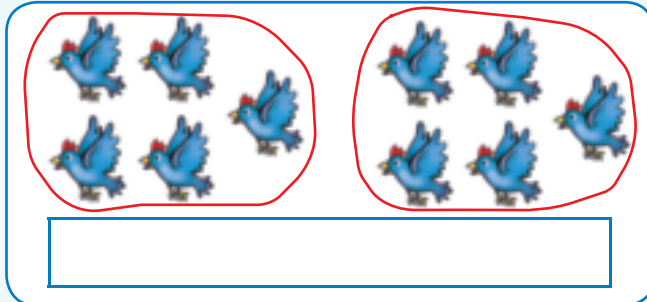


$$5 + 5 + 5 + 5 + 5 + 5 =$$





Tsala xivulwa xa tinomboro xa xin'wana na xin'wana xa leswi landzelaka:



Hlamula swivutiso leswi landzelaka.



Xana u vona swingwece swa 5c swingani?

Swi tsale tanihi xivulwa xa tinomboro.



Tatisa tinomboro leti siyiweke.

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



Teacher:
Sign:
Date:



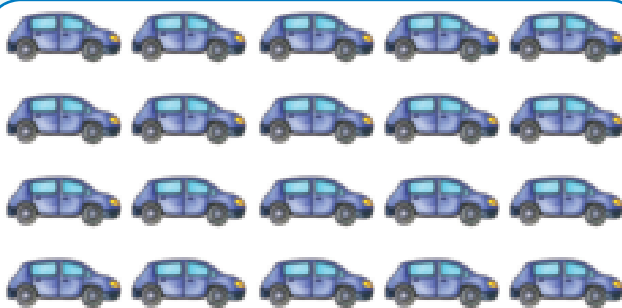


Vuntlhanu – ku hlanganisa ko vuyelela ku fika eka 20

Endla mintlawo ya vuntlhanu u tlhela u tsala xivulwa xa tinomboro.







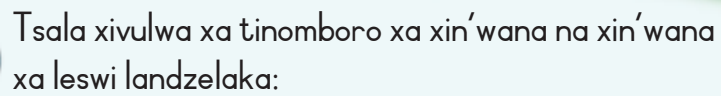




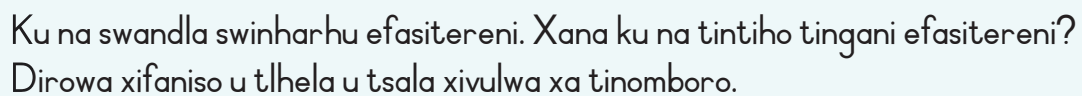
Dirowa mintlawo ya swivumbeko ku kombisa swivulwa swa tinomboro.

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

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



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



Teacher: _____

Sign: _____

Date: _____



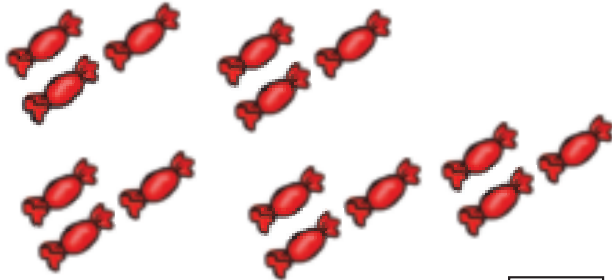
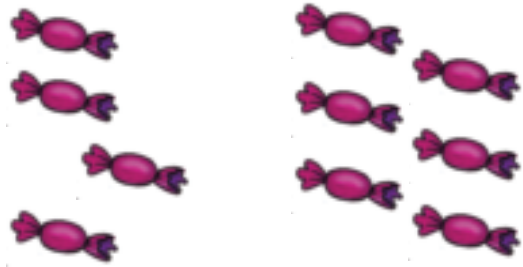
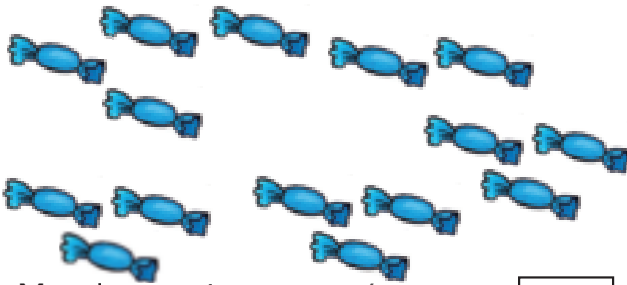
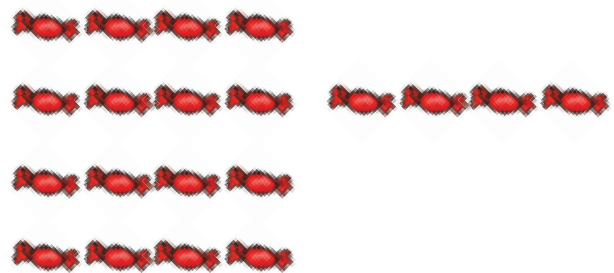
Ku ava ku fika eka 20

Kotara ya 4



Ava malekere exikarhi ka vanghana va ntlhanu.

Xana un'wana na un'wana u ta kuma malekere mangani?

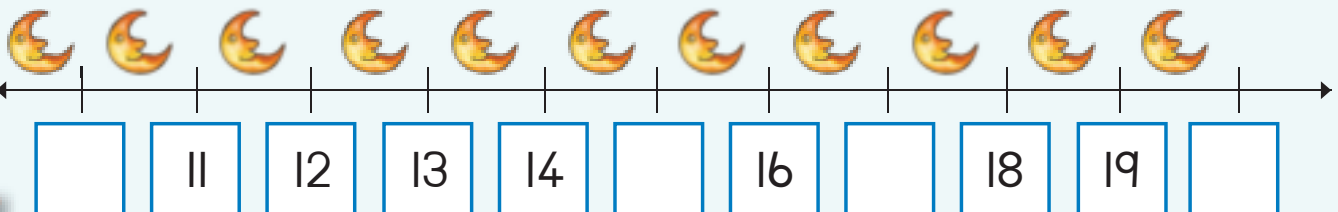
Munghana un'wana na un'wana
u ta kuma malekere ya
Munghana un'wana na un'wana
u ta kuma malekere ya
Munghana un'wana na un'wana
u ta kuma malekere ya
Munghana un'wana na un'wana
u ta kuma malekere ya


Khalara miandziso ya ntlhanu.

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



Tatisa tinomboro leti siyiweke.



100 0 1 2 3 4 5 6 7 8 9 10



Dirowa xifaniso ku kombisa leswi landzelaka.
Xana ku na swihlayelo leswi saleke?

Ava 10 wa swihlayelo exikarhi ka vana va ntlhanu.

Ku na wa swihlayelo leswi saleke.

Ava 6 wa swihlayelo exikarhi ka vana va ntlhanu.

Ku na wa swihlayelo leswi saleke.

Ava 11 wa swihlayelo exikarhi ka vana va ntlhanu.

Ku na wa swihlayelo leswi saleke.

Ava 16 wa swihlayelo exikarhi ka vana va ntlhanu.

Ku na wa swihlayelo leswi saleke.



Tsala xivulwa xa tinomboro xa xin'wana na xin'wana xa leswi landzelaka:



$$5 + 5 =$$







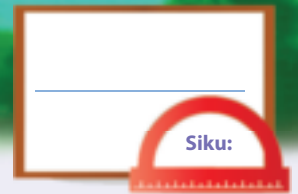


Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20





Tipatironi ta tinomboro – vuntlhanu ku fika eka 100



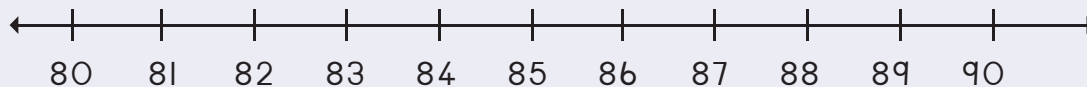
Hetisa patironi hi ku khalara minyandzisiwa ya ntlhanu.

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

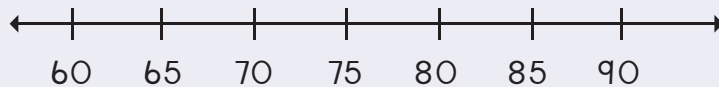


Dirowa tihupu ku kombisa leswi landzelaka:

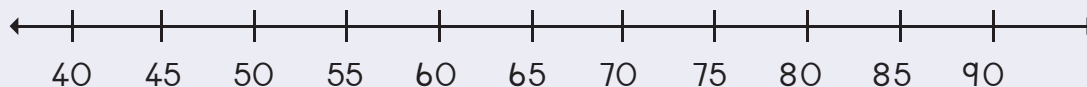
86, 88, 90



70, 75, 80



55, 60, 65, 70



Tirhisa wachi ku kombisa ku hlayela
timinete hi vuntlhanu.





Veka tinomoro to huma eka Xitsemiwa xa 2 eka tindhawu leti ku siyiweke tinomoro eka mindzhati ya mintsengo. Tihela u hetisa na tihupu.

69
68
67
66
65
64
63
62
61
60

75
70

85
80

11 12 13 14 15 16 17 18 19 20



Teacher: _____
Sign: _____
Date: _____



Xiyimo na tlhelo

Kotara ya 4



Yelanisa emahlweni na
le ndzhaku ka xiharhi
xin'wana na xin'wana.

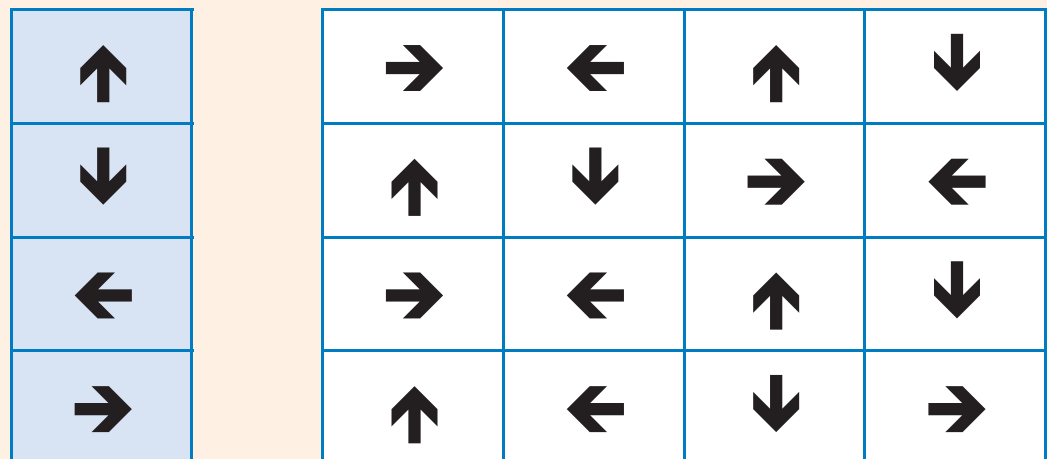
Emahlweni



Endzhaku



Bana
xirhendzevutana
eka nseve lowu
yelanaka na
nseve lowu nga
dzwihatiwa.





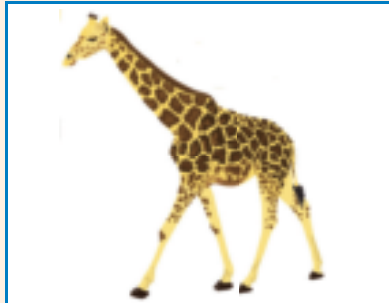
Khalara tlhelo leri faneleke.



Tlhelo ra le henhla

Tlhelo ra le matlhelo

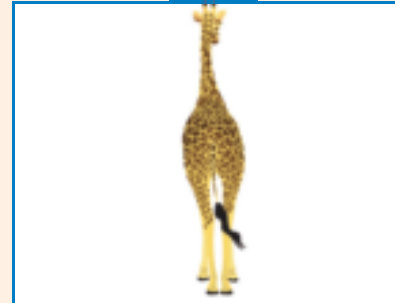
Tlhelo ra le mahlweni



Tlhelo ra le henhla

Tlhelo ra le matlhelo

Tlhelo ra le mahlweni



Tlhelo ra le ndzhaku

Tlhelo ra le matlhelo

Tlhelo ra le mahlweni



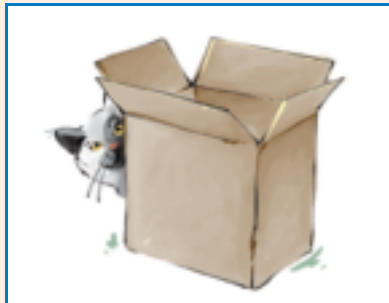
Xana ximanga xi le kwihi?
Khalara nhlamulo leyi faneleke.



Endzhaku

Emahlweni

Ekusuhi na



Endzhaku

Emahlweni

Ekusuhi na



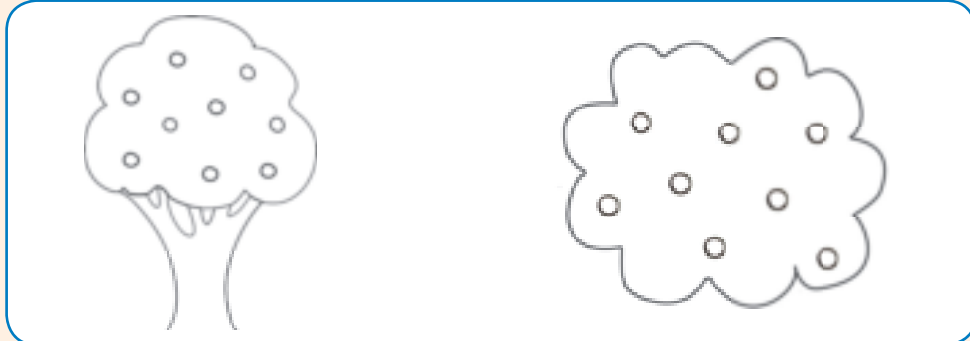
Endzhaku

Emahlweni

Ekusuhi na

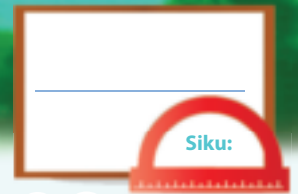


Languta swifaniso
swa mirhi.
Khalara tlhelo ra le
henhla.



Teacher:
Sign:
Date:

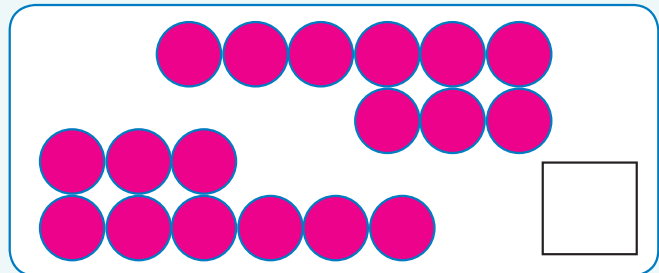
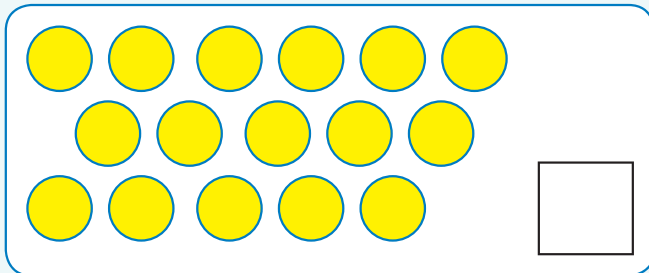
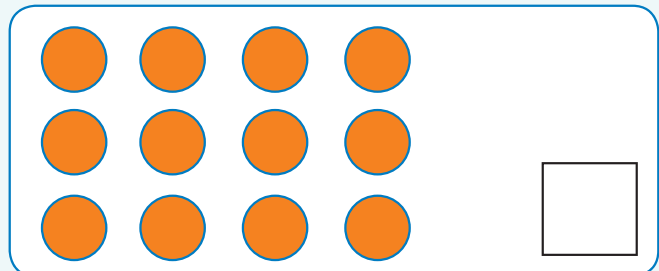
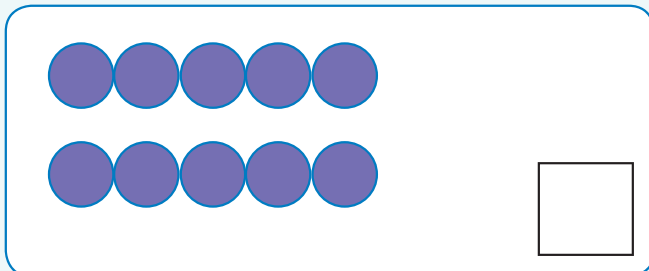
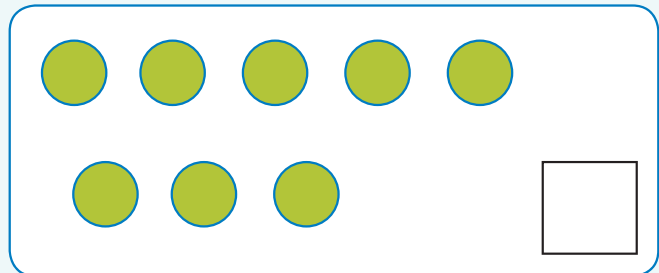
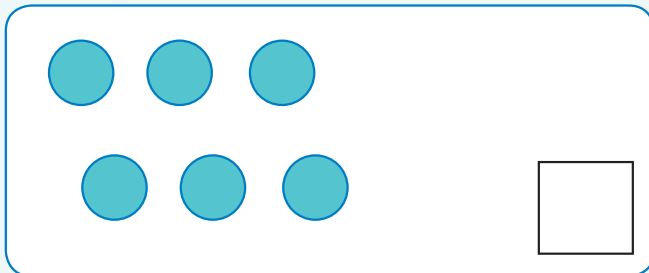




Mintlawa ya vumbirhi ku fika eka 20



Endla mintlawa ya vumbirhi. Tsala leswaku i mintlawa yingani leji nga kona.



Endla mintlawa ya vumbirhi. Dirowa mintlawa.





Hlamula swivutiso leswi landzelaka.



Ku na swinyenyana swingani?

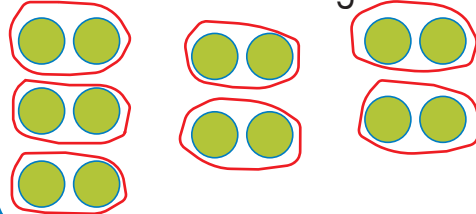
I mintlawwa yingani ya swimbirhi leyi u nga kotaka ku yi endla?

Tsala xivulwa xa tinomboro.



Dirowa swirhendzevutana ku endla leswi landzelaka.

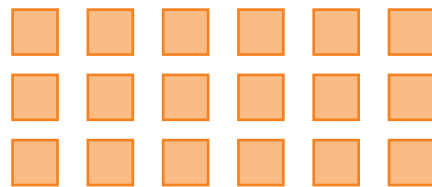
7 wa mintlawwa ya 2



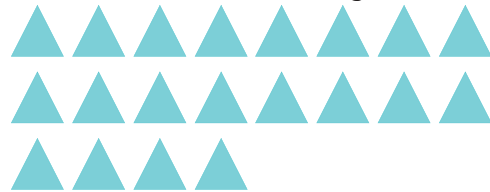
8 wa mintlawwa ya 2



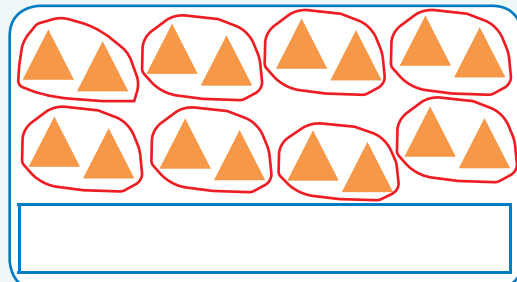
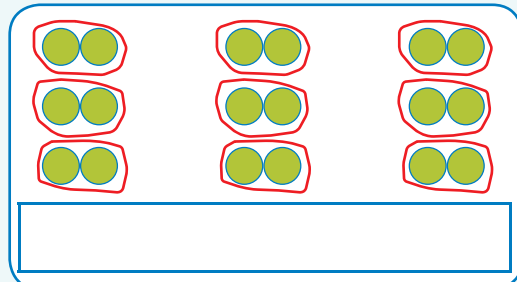
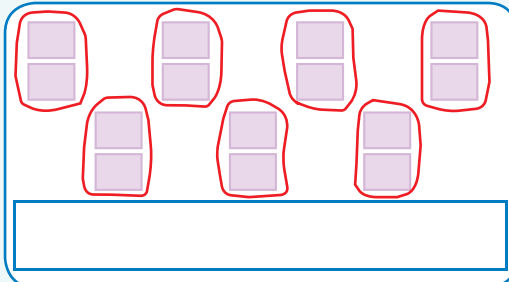
9 wa mintlawwa ya 2



10 wa mintlawwa ya 2

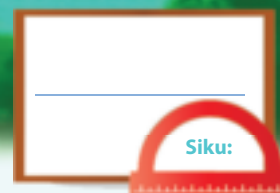


Tsala xivulwa xa tinomboro xa leswi landzelaka.



Teacher: _____
Sign: _____
Date: _____





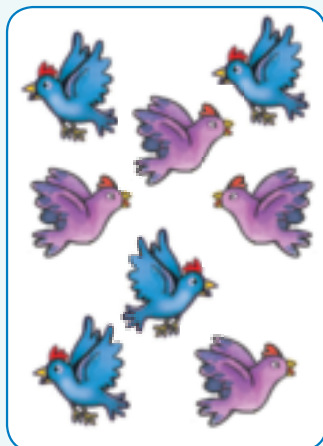
Vumbirhi – ku hlanganisa ko vuyelela ku fika eka 20



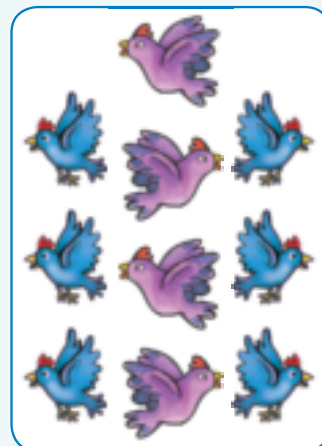
Xana ku na milenge yingani?

Tsala xivulwa xa tinomboro xa milenge yin'wana na yin'wana.











Dirowa swivumbeko swa leswi landzelaka:

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



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

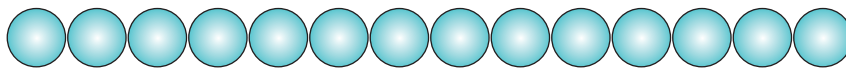
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

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

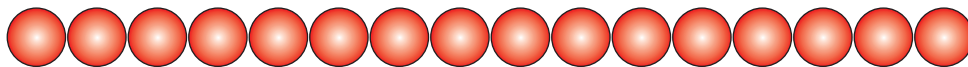


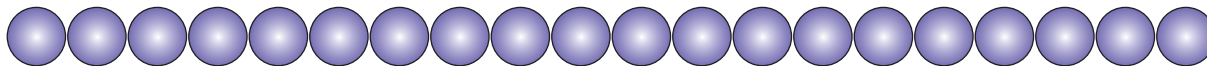


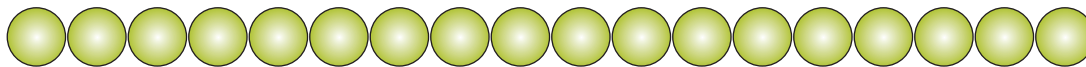
Tsala xivulwa xa tinomboro xa leswi landzelaka:



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









Khalara minyandzisiwa ya mbirhi.

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



Ndzi na 6 wa maphakete lama nga na 2 wa malekere eka rin'wana na rin'wana. Xana ndzi na malekere mangani? Dirowa xifaniso u tlhela u tsala xivulwa xa tinomboro.

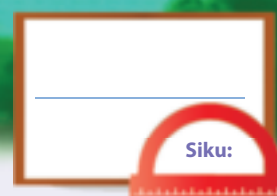
Ndzi na wa malekere.



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



Patironi ya tinomboro – vumbirhi ku fika eka 100



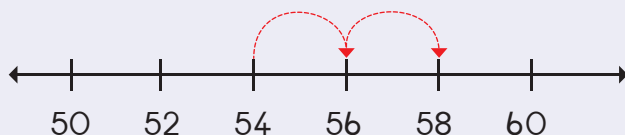
Hetisa patironi
hi ku khalara
tinomboro.

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

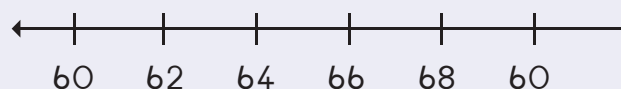


Dirowa tihupu ku kombisa leswi landzelaka:

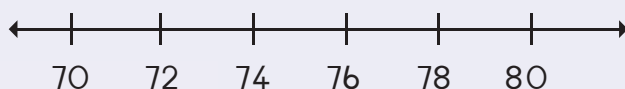
54, 56, 58



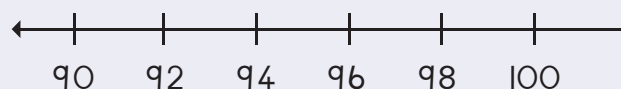
64, 66, 68



74, 76, 78



94, 96, 98

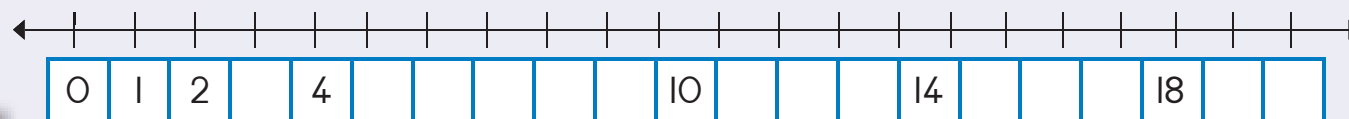


Tatisa tinomboro leti siyiweke. Khalara patironi: 2, 4...

I		3				7			10
II						17			20



Hetisa ndzhati wa mintsengo.



0 1 2 3 4 5 6 7 8 9 10



Tsema tinomboro eka Xitsemiwa xa 2 kutani u ti veka eka ndzhati wa mintsengo laha ku sijiweke tinomboro. Tlhela u hetisa na tihupu.

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

Teacher: _____
Sign: _____
Date: _____



120



Siku:

Tipatironi ta tinomboro – vumbirhi ku fika eka 100

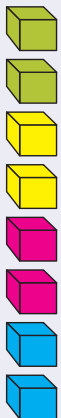
Kotara ya 4



Xana u kota ku vona patironi ya swimbirhi?



Khalara tibuloko ku kombisa mintlawwa ya vumbirhi.
Hlayela leswaku i mintlawwa yingani leyi nga kona.

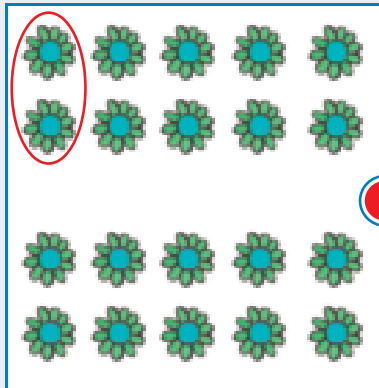


4

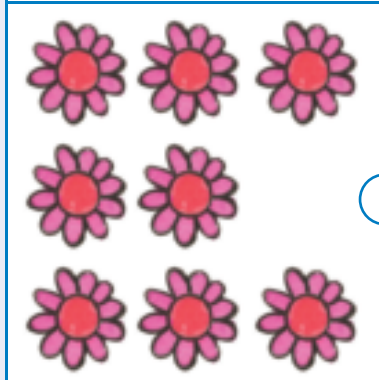




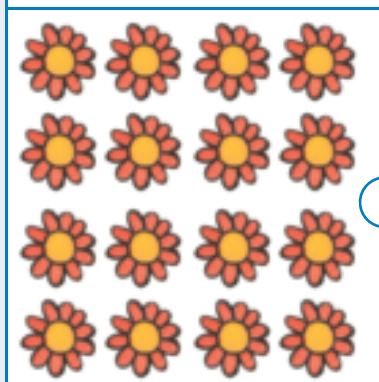
Yelanisa mintlawwa ya swimbirhi na xivulwa xa tinomboro hi ku dirowa ntila.



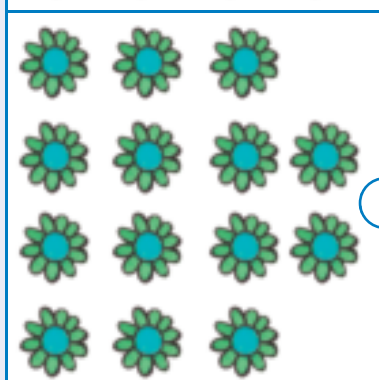
$$2 + 2 + 2 + 2 = 8$$



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



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



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



Teacher:
Sign:
Date:



11

12

13

14

15

16

17

18

19

20

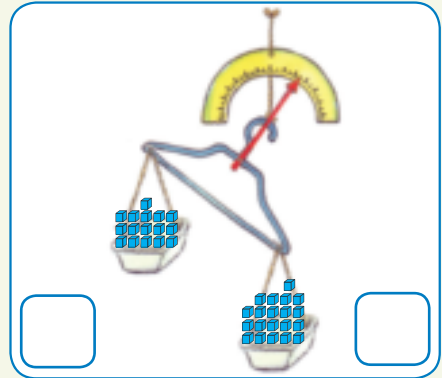
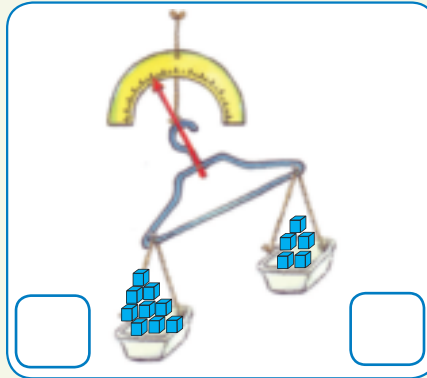
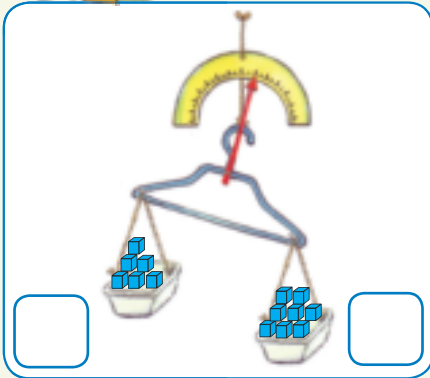


Masa (ntiko)

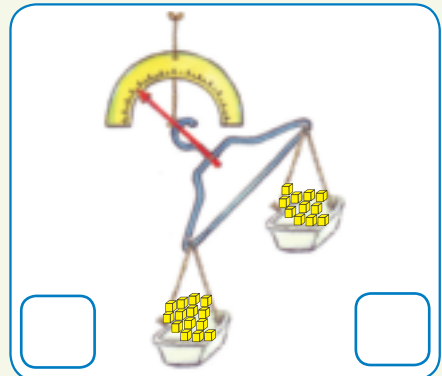
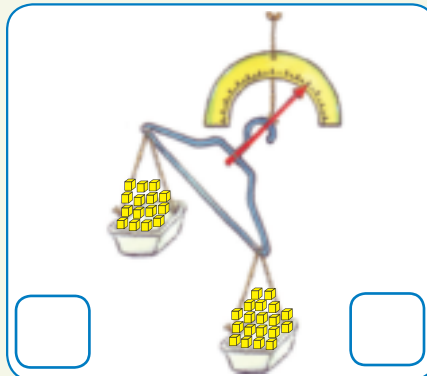
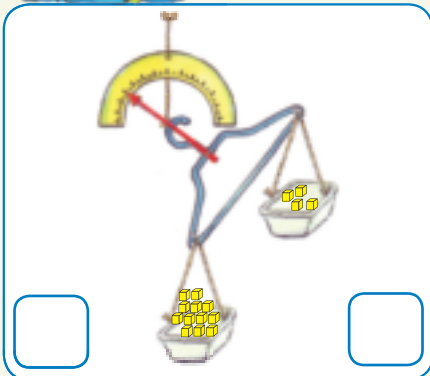
Kotara ya 4



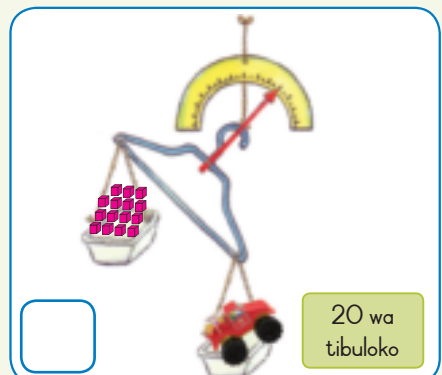
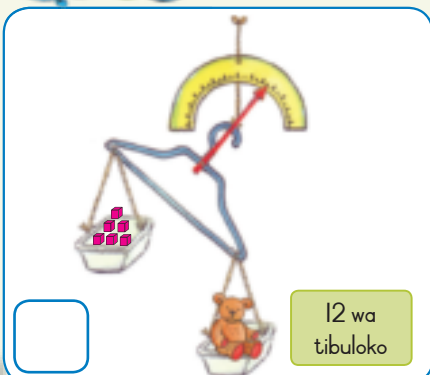
Tsala leswaku ku na tibuloko tingani eka xibye xin'wana na xin'wana.
Bana xirhendzevutana eka xibye lexi tikaka.



Tsala leswaku ku na tibuloko tingani eka xibye xin'wana na xin'wana.
Bana xirhendzevutana eka xibye lexi vevukaka.

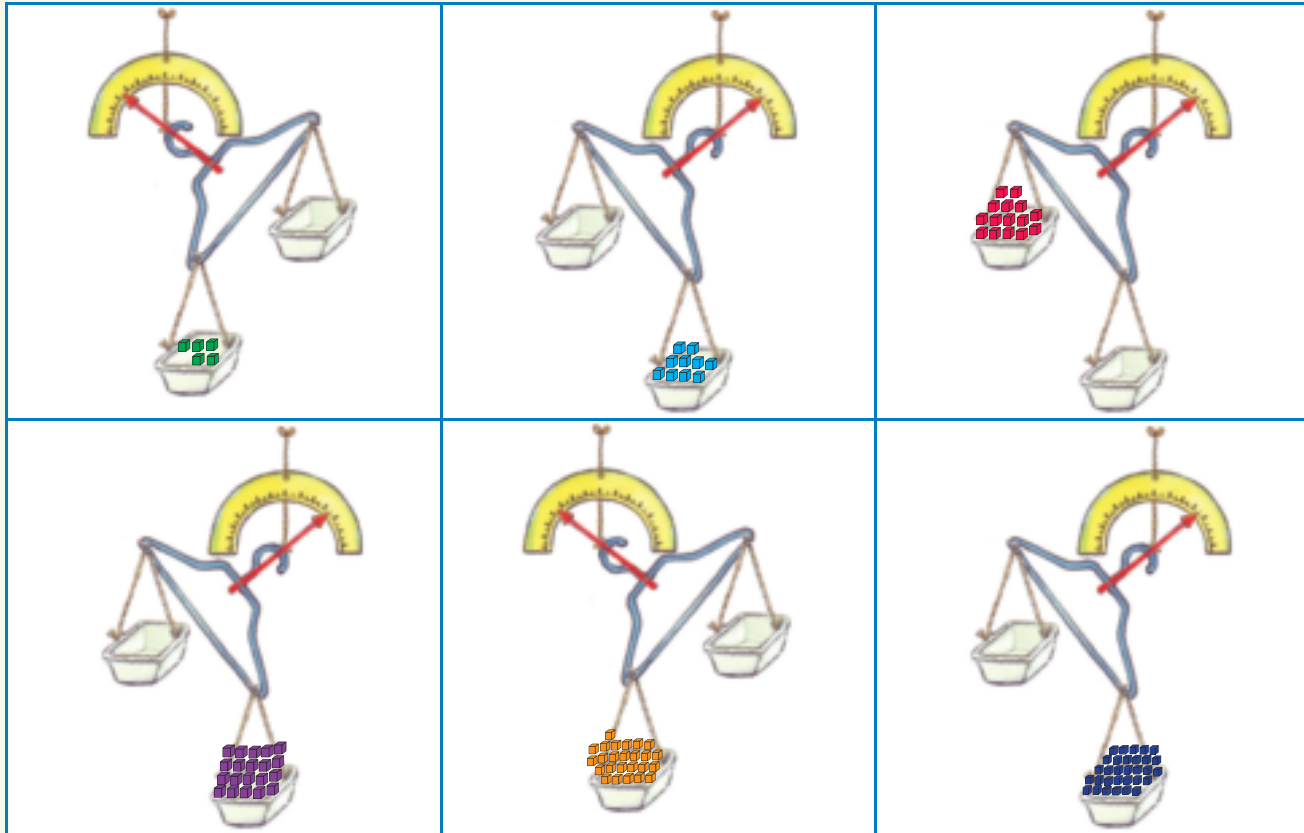


Hlayela leswaku i tibuloko tingani leti nga kona. Kuma leswaku ku laveka tibuloko tin'wana tingani leswaku ti kota ku balansisa xitlangiso. Hi ku byela leswaku xitlangiso xi na ntiko wa tibuloko tingani.





Dirowa nchumu wo tika kumbe wo vevuka ku tlula tibuloko.



Tirhisa 5 wa minchumu eka desika ra wena. Rhanga u pimanyeta ntiko kutani endzhaku u pima eka xikalu kumbe u yi balansa ku kambisisa loko mpimanyeto wa wena wu lulamile.

Dirowa xanchumu	Bvumba	Masa	Ku hambana
	___ wa tibuloko	___ wa tibuloko	___ - ___ = ___

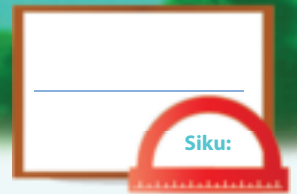


Teacher:

Sign:

Date:



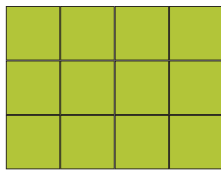


Ku mbirihata

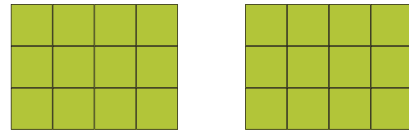


Hlamula swivutiso leswi landzelaka:

Ku na swikwere swingani?



Ku na swikwere swingani sweswi?



Hi vula leswaku 12 kambirhi i 24.

Ku na milenge yingani?

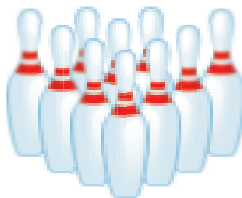


Ku na milenge yingani sweswi?



Hi vula leswaku 6 kambirhi i

Ku na swikitele swingani?



Ku na swikitele swingani sweswi?



Hi vula leswaku 10 kambirhi i

Ku na masiku mangani evhikini?

S	M	T	W	T	F	S

Ku na masiku mangani eka mavhiki mambirhi?

S	M	T	W	T	F	S

Hi vula leswaku 7 kambirhi i

Ku na tikhirayoni tingani?



Ku na tikhirayoni tingani sweswi?



Hi vula leswaku 8 kambirhi i





Tatisa
nhlamulo.

4 kambirhi	=	8
10 kambirhi	=	
11 kambirhi	=	
2 kambirhi	=	
6 kambirhi	=	



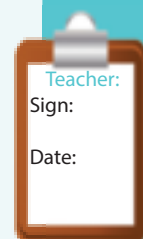
Tatisa nhlamulo.

Mbirhi kambirhi i	mune
Nharhu kambirhi i	
Mune kambirhi i	
Ntlhanu kambirhi i	
Ntsevu kambirhi i	
Nkombo kambirhi i	

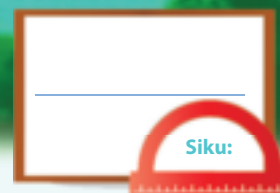


Hetisa tafula leri landzelaka.

$9 + 9 + 1 =$		kumbe	Mbirhihata $9 + 1 =$	
		kumbe	Mbirhihata $8 + 1 =$	
$10 + 10 + 1 =$		kumbe		
$7 + 7 + 1 =$		kumbe	Mbirhihata $7 + 1 =$	



123



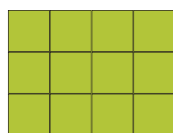
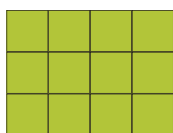
Ku hafula

Kotara ya 4

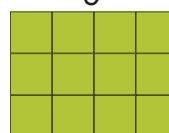


Hlamula swivutiso leswi landzelaka:

Ku na swikwere swingani?



Ku na swikere swingani sweswi?



Hi vula leswaku hafu ya 24 i 12.

Ku na milenge yingani?



Ku na milenge yingani sweswi?



Hi vula leswaku hafu ya 12

Ku na swikitele swingani?



Ku na swikitele swingani sweswi?



Hi vula leswaku hafu ya 20 i

Ku na masiku mangani eka 2
wa mavhiki?

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

Ku na masiku mangani eka vhiki rin'we?

S	M	T	W	T	F	S

Hi vula leswaku hafu ya 14 i

Ku na tikhirayoni tingani?



Ku na tikhirayoni tingani sweswi?



Hi vula leswaku hafu ya 16 i





Tatisa nhlamulo
leyi faneleke.

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



Tatisa nhlamulo leyi faneleke.

Hafu ya mune i	mbirhi
Hafu ya ntsevu i	
Hafu ya mbirhi i	
Hafu ya nhungu i	
Hafu ya khume i	



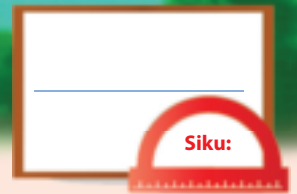
Tatisa nhlamulo leyi faneleke.

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



Teacher:
Sign:
Date:

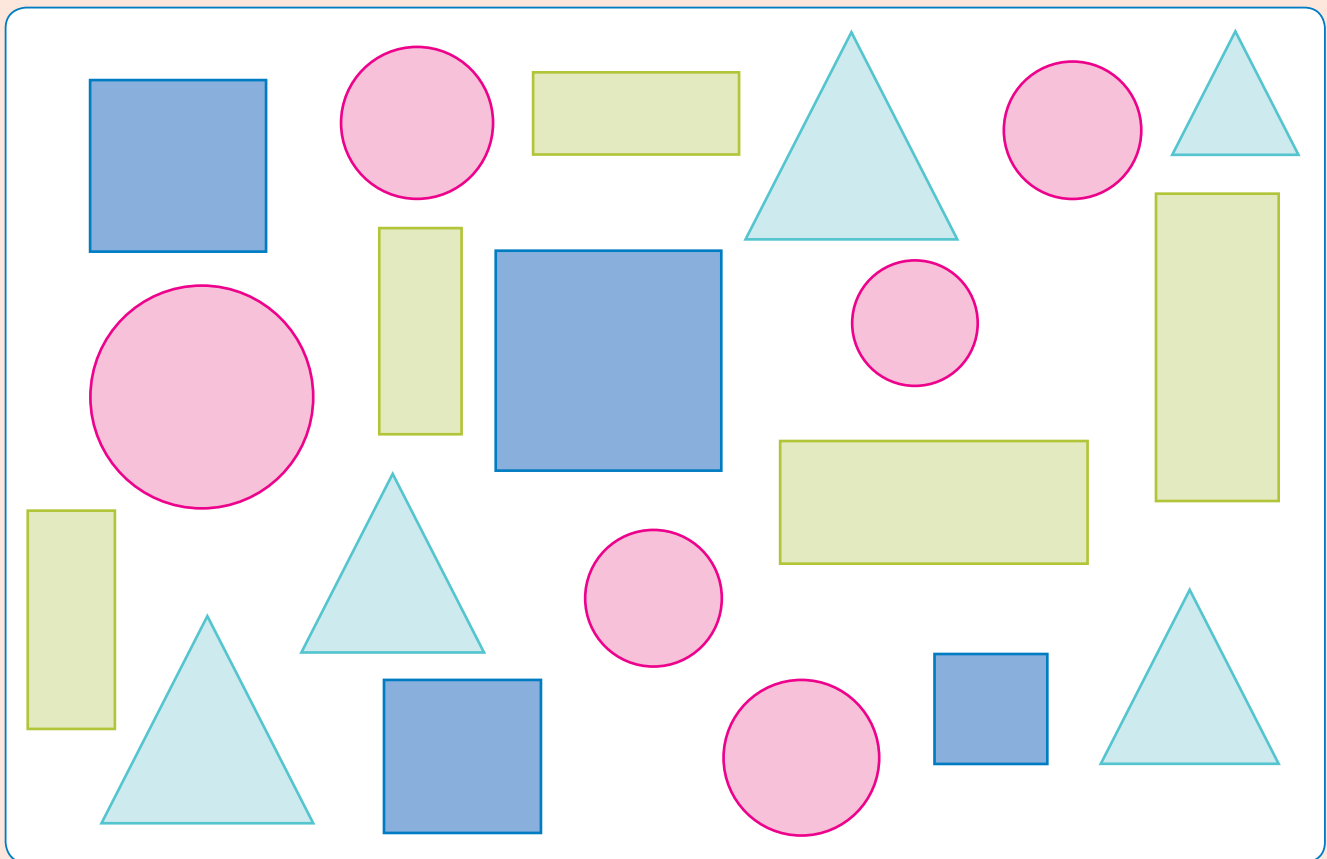




Switiviwa

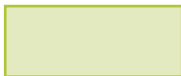


Hlayela leswaku ku na swivumbeko swo hambana swingani kutani u hlamula swivutiso leswi landzelaka.



1. Ku na swikwere  swingani?

2. Ku na tiyinhlanharhu  tingani?

3. Ku na tiyinhlamune  tingani?

4. Ku na swirhendzevutana  swingani?



Mihandzu leyi yi hlawuriwile hi 20 wa vanghana va wena.
Hlawula mihandzu u tlhela u dirowa xifaniso xa mihandzu leyi u yi
hlawuleke eka girafu ya swifaniso endzhaku u hlamula swivutiso
leswi nga laha hansi.

Mihandzu leyi hi yi rhandzaka swinene

Xiletelo =



Xitiroberi	Apula	Pyere	Banana	Lamula

I vana vangani lava rhandzaka switiroberi?	
I vana vangani lava rhandzaka maapula?	
I vana vangani lava rhandzaka mapyere?	
I vana vangani lava rhandzaka mabanana?	
I vana vangani lava rhandzaka malamula?	
Hi wihi muhandzu lowu vana va wu rhandzaka swinene?	
Hi wihi muhandzu lowu vana va nga wu rhandziki?	



Teacher:

Sign:

Date:



11 12 13 14 15 16 17 18 19 20





Switiviwa swin'wana



Vana etlilasini va na switlangiso leswi landzelaka.

Va na switlangiso swingani swa rixaka rin'wana na rin'wana?



Hetisa tafula leri landzelaka.

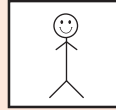
Xitlangiso	Nhlayo
Swipopana	
Swilorana	
Tithedi	
Tirhoboto	



Hetisa girafu ya swifaniso hi ku dirowa nhlayo leyi faneleke ya swifaniso swa vanhu va tinhonga eka rixaka rin'wana na rin'wana ra xitlangiso.

Switlangiso leswi hi nga na swona

Xiletelo =



Swipopana	Swilorana	Tithedi bere	Tirhoboto



Hlamula swivutiso leswi landzelaka.
Languta girafu ya swifaniso leswaku u kota ku pfuneka.

I vana vangani lava nga na xipopana?	
I vana vangani lava nga na xilorana?	
I vana vangani lava nga na thedi bere?	
I vana vangani lava nga na rhoboto?	
Hi xihhi xitlangiso lexi rhandziwaka swinene?	
Hi xihhi xitlangiso lexi nga rhandziwiki?	



Teacher:
Sign:
Date:



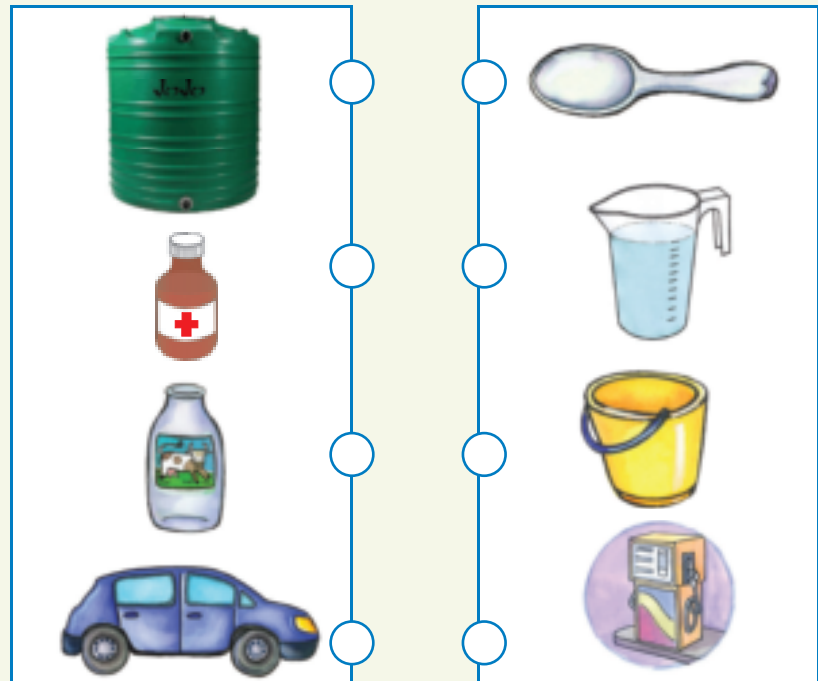


Vundzeni

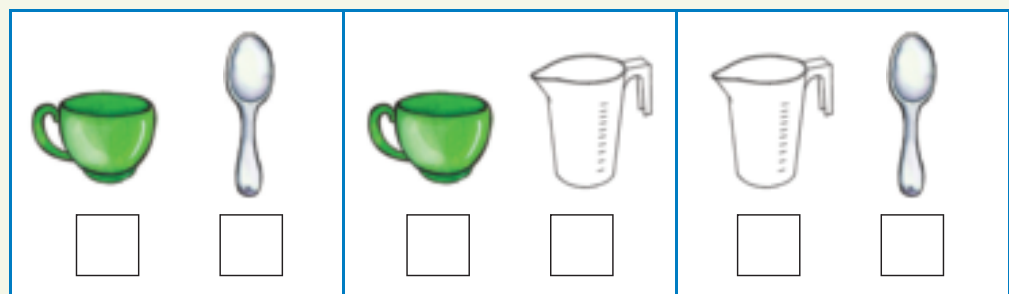
Kotara ya 4



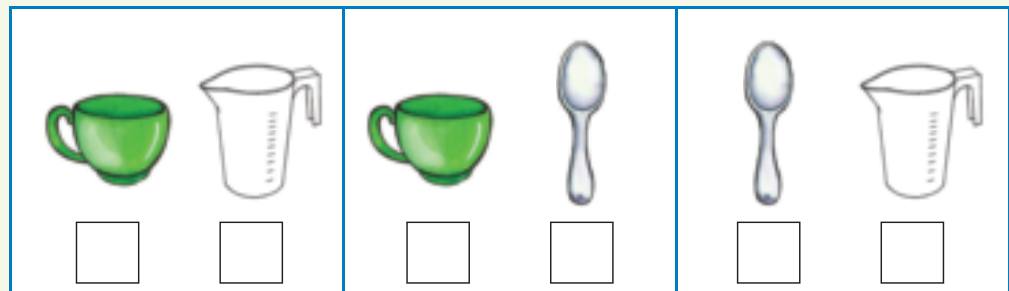
Swihalaki hi swi pimisa ku yini?
Dirowa ntila u yelanisa xanchumu
na xipimo lexi faneleke.



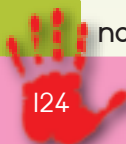
Gwajula xibye lexi
khomaka switsongo.



Gwajula xibye lexi
khomaka swo tala.

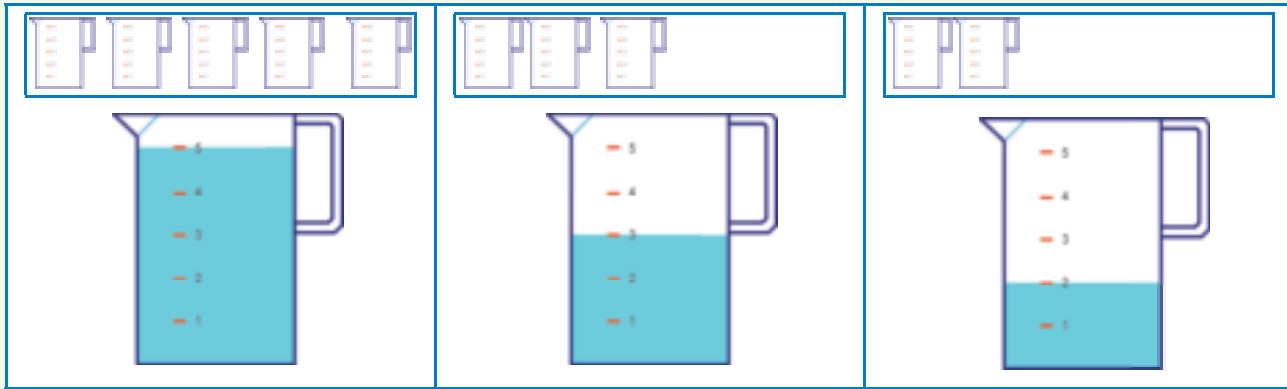


Xana swibye swi
tele kumbe swi hava
nchumu?

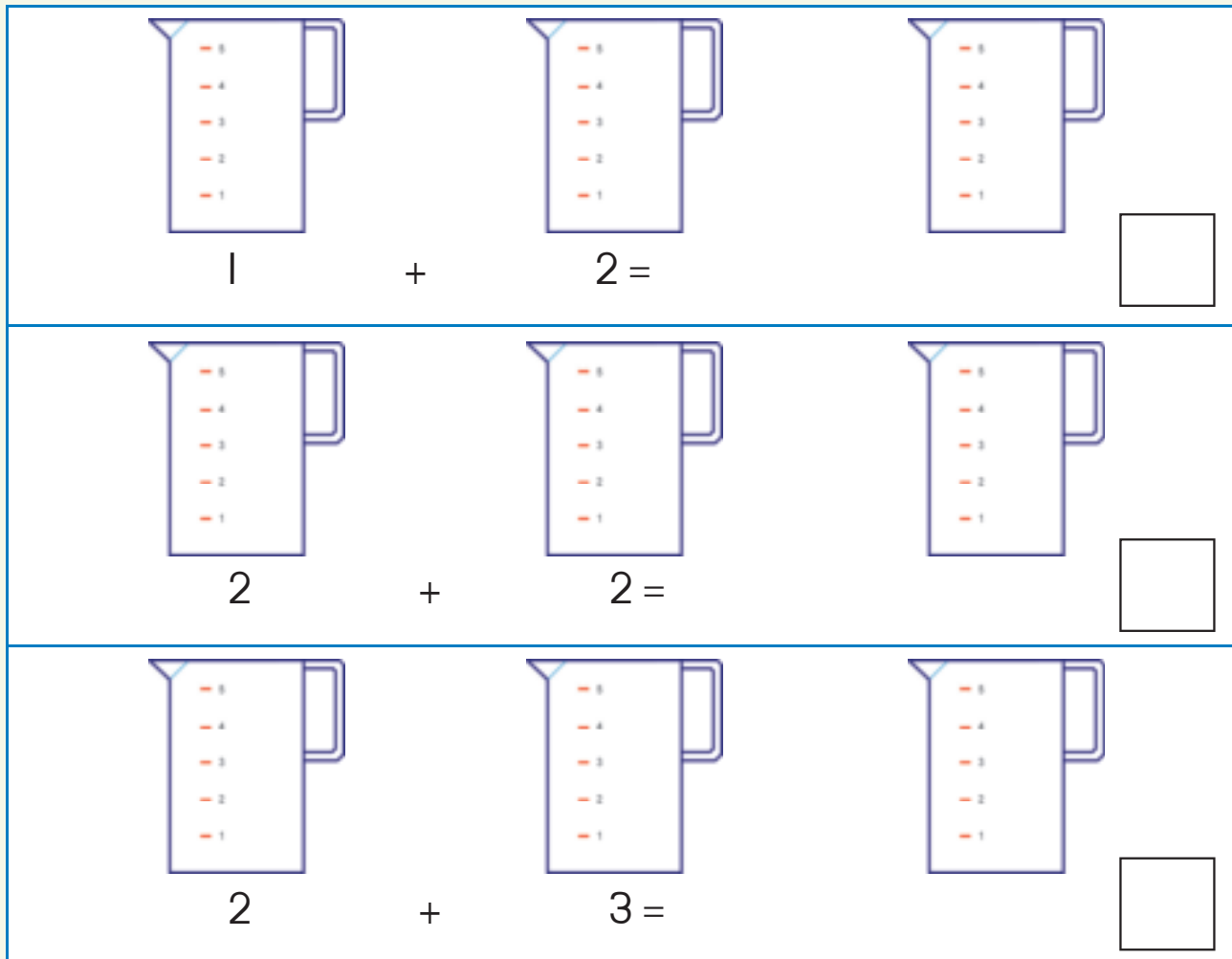




U fanele ku va na tikhapu ta ntlhanu ku kota ku tata jeke yin'we.
U fanele ku kuma tikhapu tin'wana tingani leswaku u kota ku
tata tijeke tin'wana timbirhi? Ti dirowe.



Khalara ntalo wa swihalaki lowu faneleke.



Teacher:

Sign:

Date:



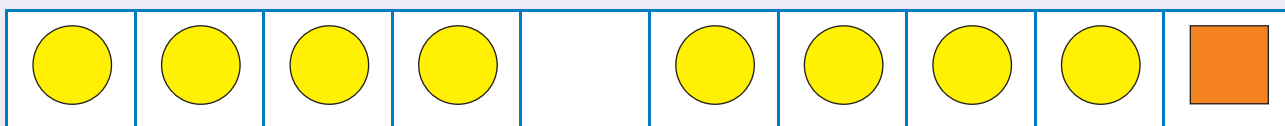
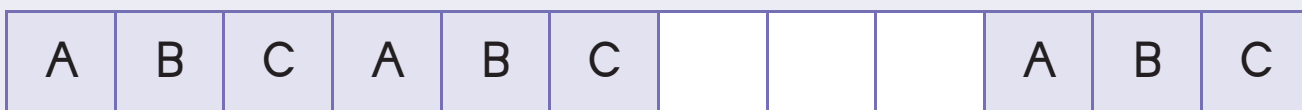
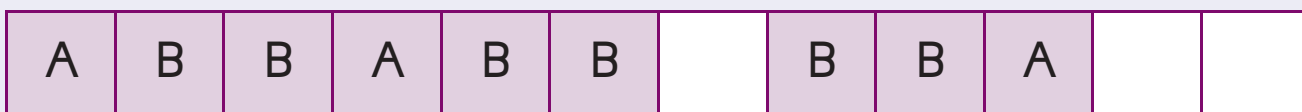
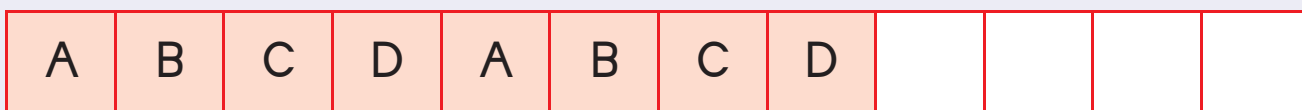
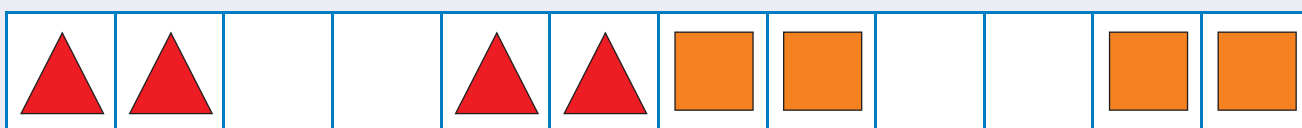
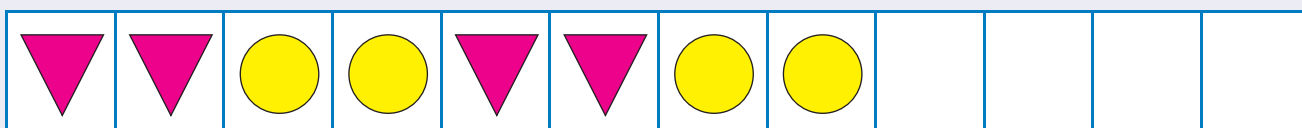
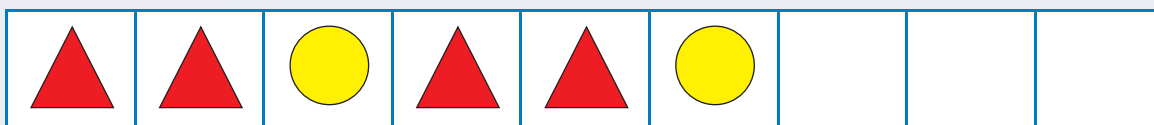


Tipatironi ta jometiri



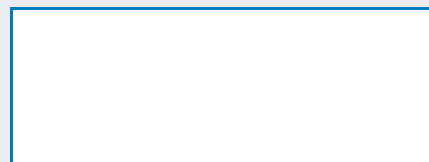
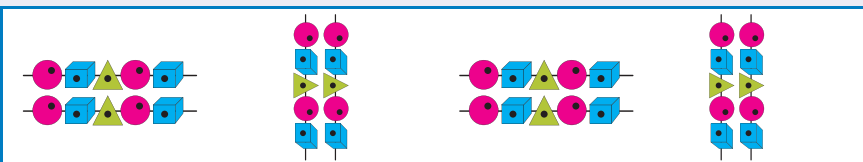
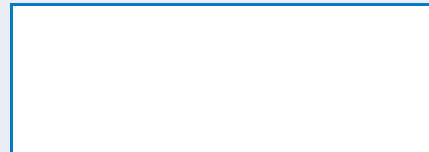
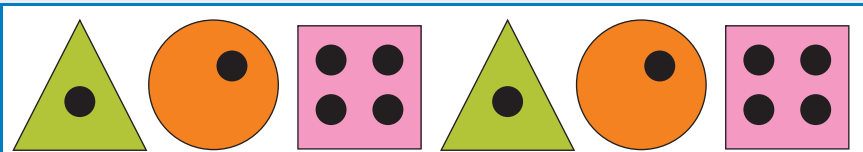
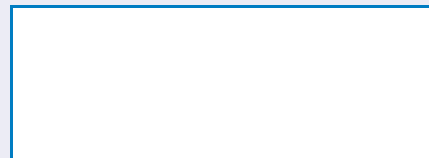
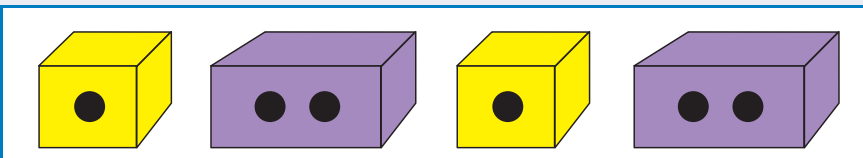
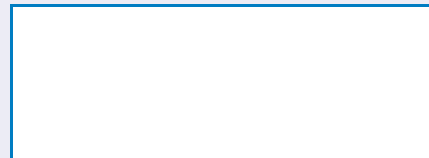
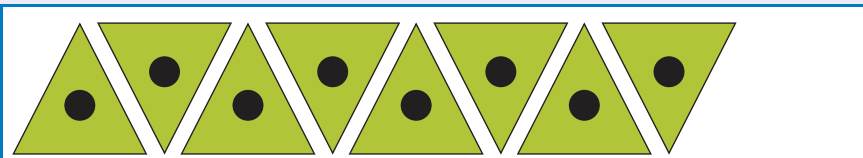
Hetisa tipatironi leti landzelaka.

Kotara ya 4

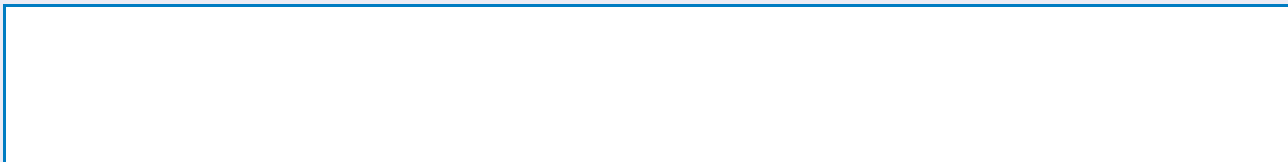
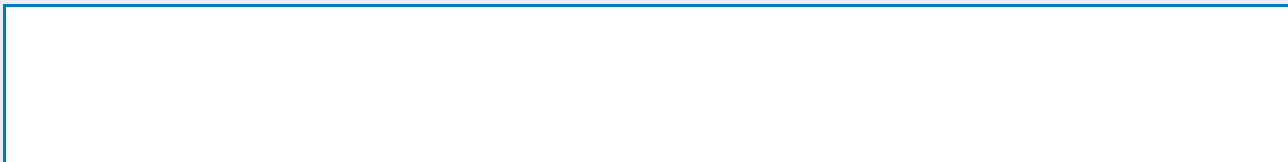
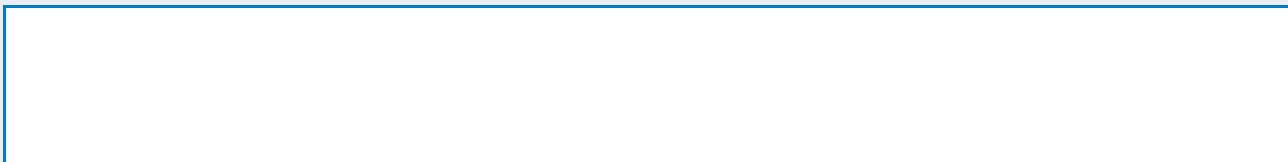
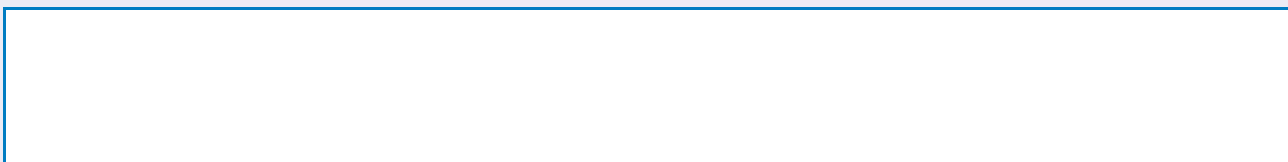




Engetela patironi.

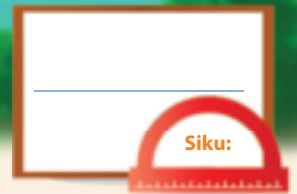


Tumbuluxa tipatironi ta wena u tirhisa swirhendzevutana, swikwere na tiyinhlanharhu.



Teacher:
Sign:
Date:

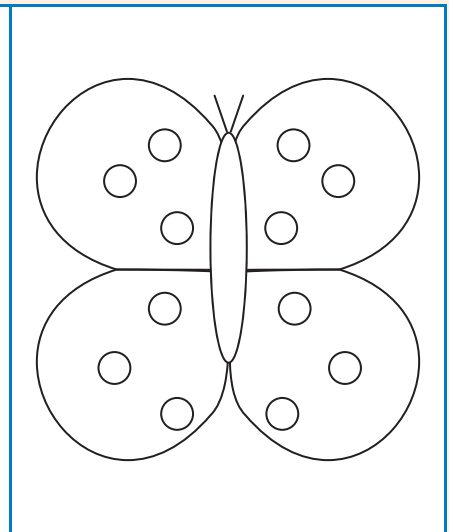
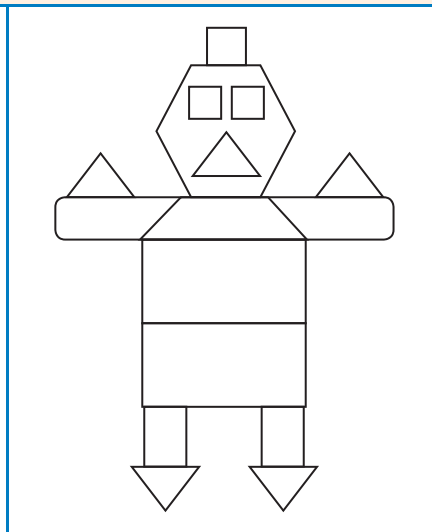
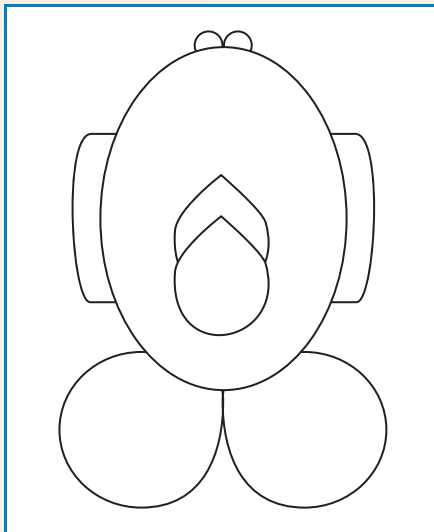




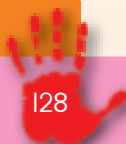
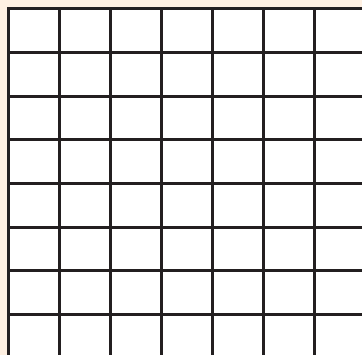
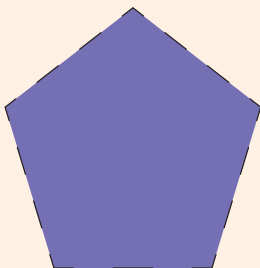
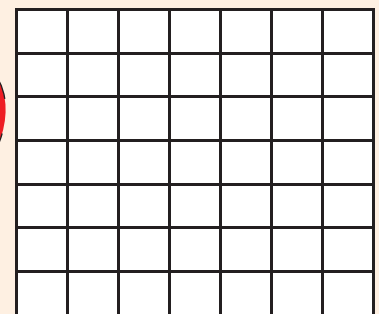
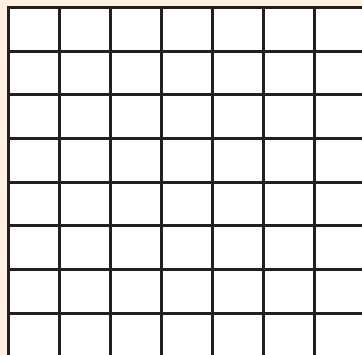
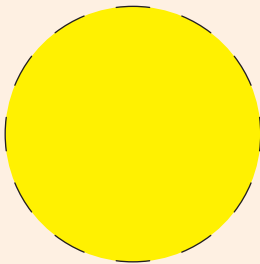
Ndzingano



Dirowa ntila wa ndzinganiso lowu avanyisaka xifaniso eka tihafu timbirhi leti ringanaka. Khalara hafu yin'we ya xifaniso xin'wana na xin'wana.

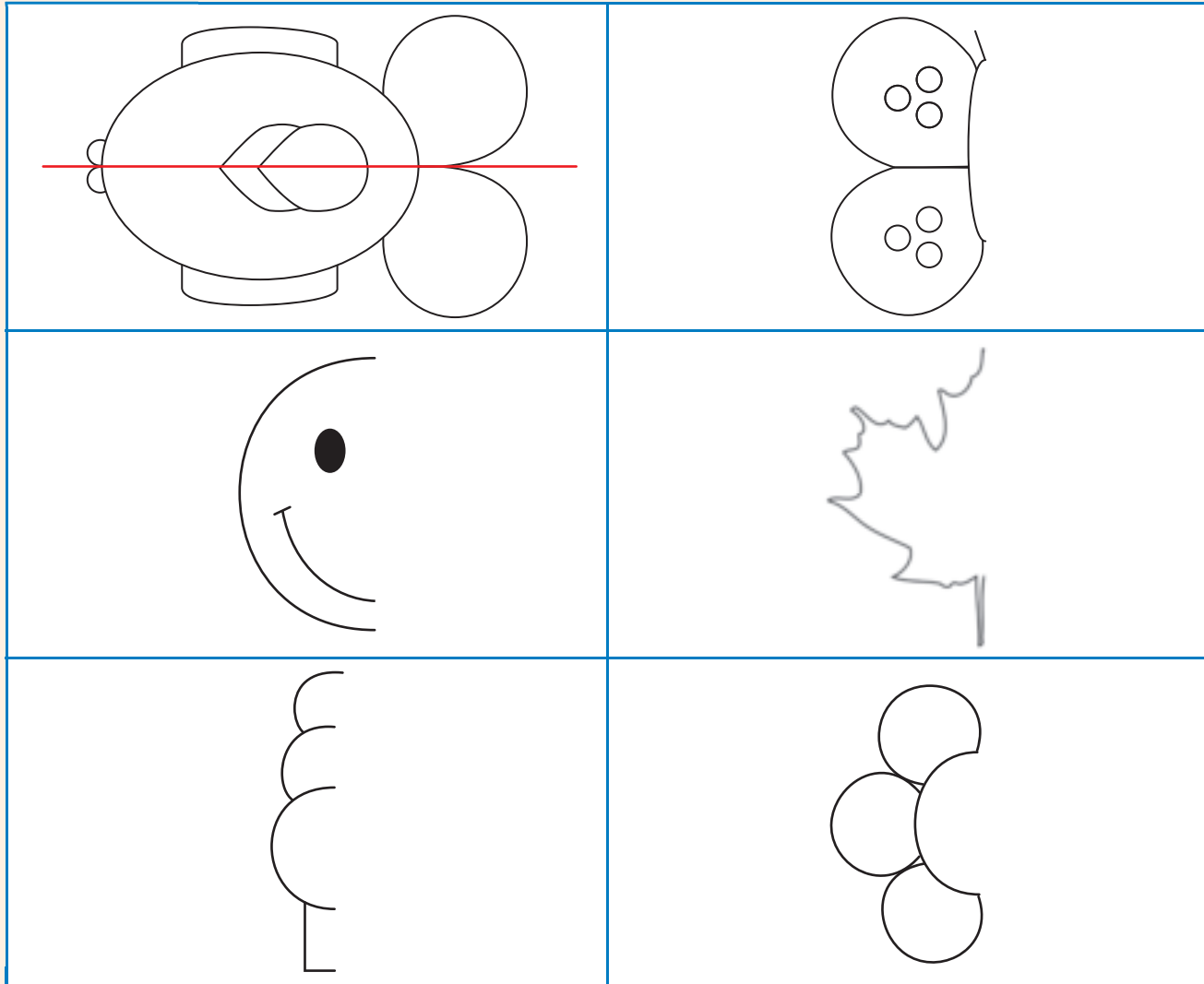


Kopunula swivumbeko u tlhela u dirowa ntila wa ndzinganiso.

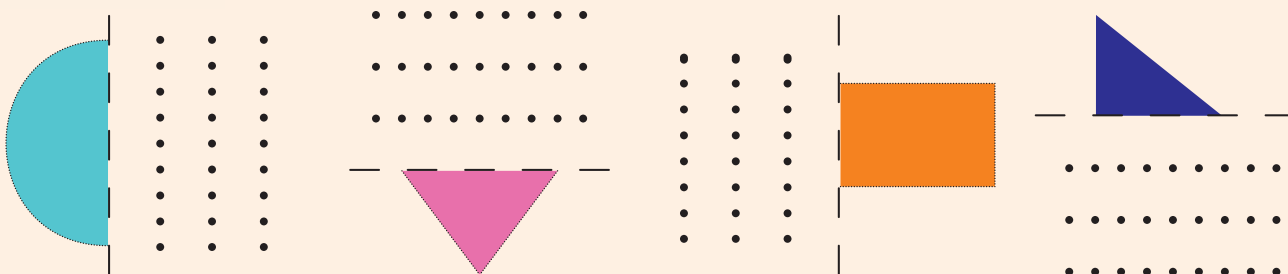




Hetisa xifaniso hi ku dirowa hafu yin'wana.



Dirowa hafu yin'wana ya xivumbeko.



11 12 13 14 15 16 17 18 19 20



Tinotsi



A large rectangular area for writing, featuring horizontal blue lines and a vertical red margin line on the left side.

Tinotsi



Tinotsi



A large rectangular area for writing, featuring horizontal blue lines and a vertical red margin line on the left side.

Cut-out 1

Worksheet 79



Cut out cards 2

Worksheet 83

45	50	40	40	30	35
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Worksheet 84

70	65	75	80	70	60
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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						

