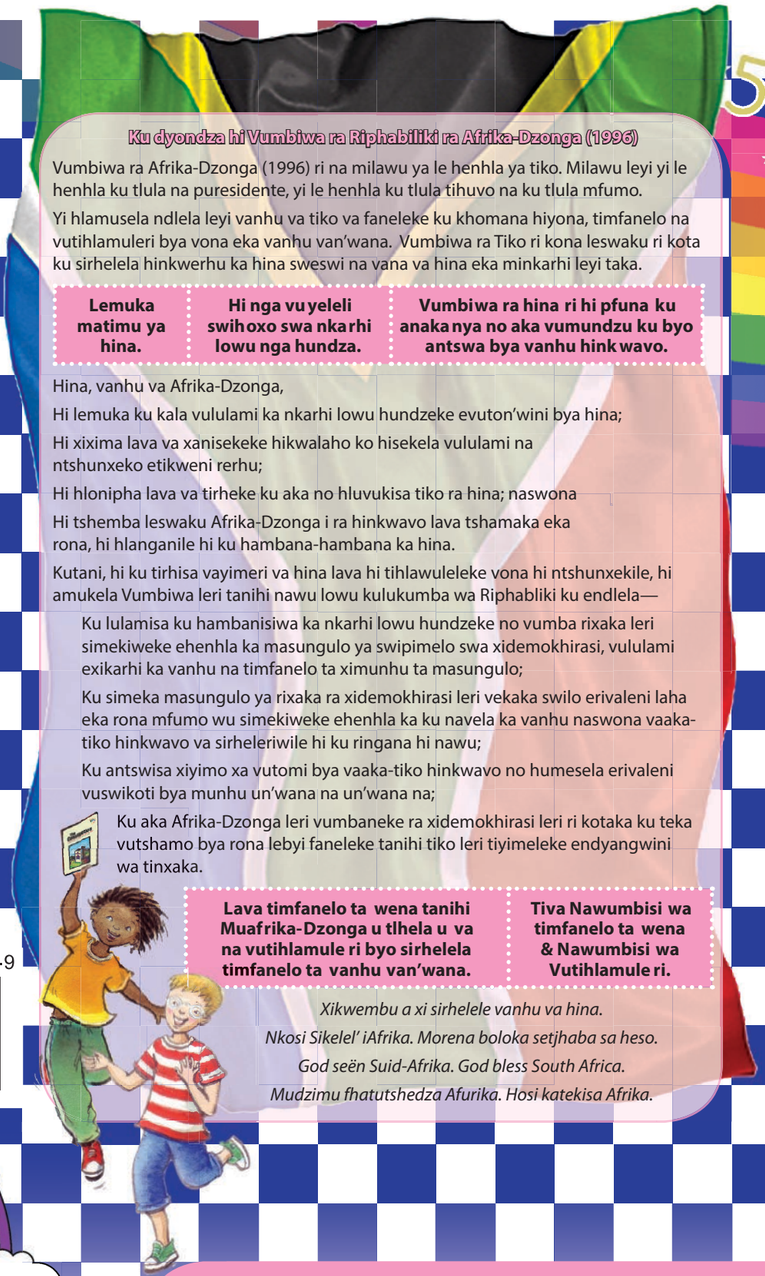


Ku dyondza hi Vumbiwa ra Riphabiliki ra Afrika-Dzonga (1996)

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 yeleli swihoxo swa nkarhi lowu nga hundza.**	**Vumbiwa ra hina ri hi pfuna ku anakanya 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 Riphabliki 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.**

Xikwembu 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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GRADE 1 – BOOK 2
TERMS 3 & 4
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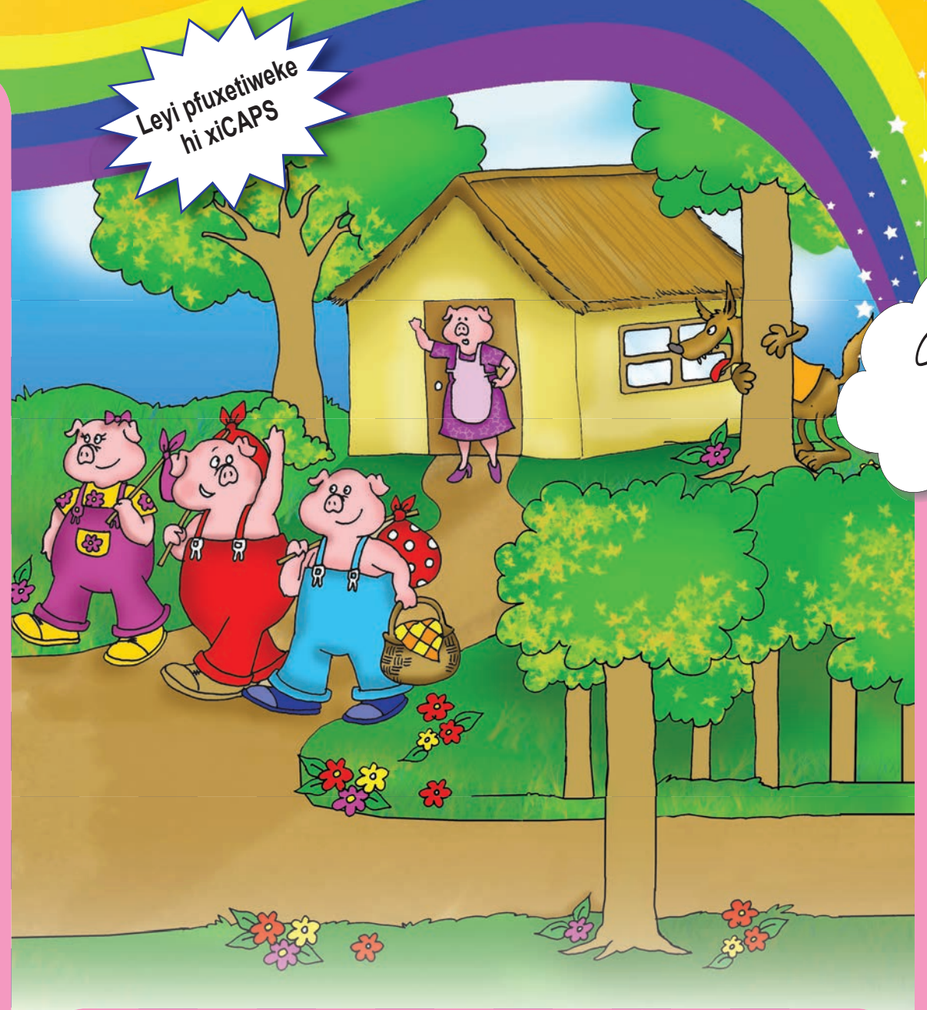
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1 2 3 4

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Giredi ya I

MATEMATIKI HI XITSONGA

Buku ya 2
Tikotara ta 3 na 4

Vito:

Tlilasi:

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Manana Angie Motshekga, Holobye wa Dyondzo ya Masungulo



Nkulukumba Enver Surty, 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, Manana Angie Motshega na Xandla xa Holobye wa Dyondzo ya Masungulo, Nkulukumba Enver Surty.

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 Vaafrika-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.



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Buku leyi i ya:



XITSONGA

Buku ya 2







Siku:

Twisisa nomboro ya 11

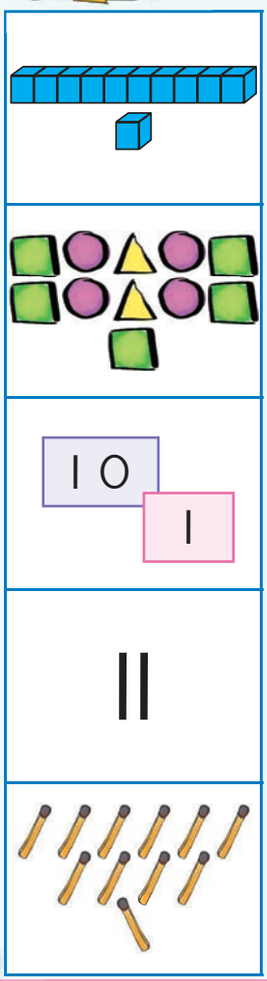
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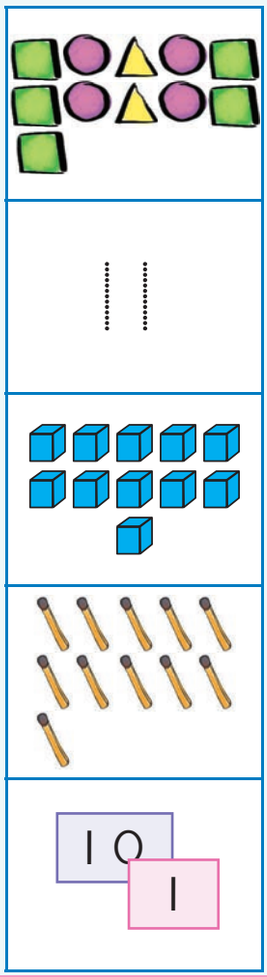
Titolovete ku tsala tinomboro.

n'we	1 1
mbirhi	2 2



Yelanisa swifaniso.

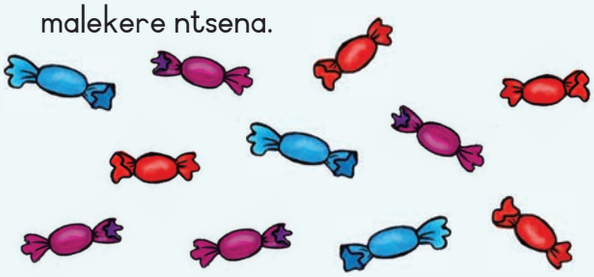






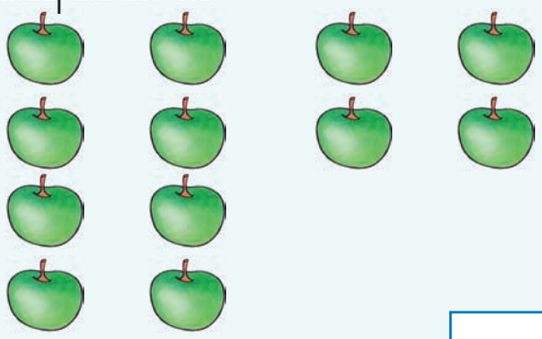
Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa malekere ntsena.

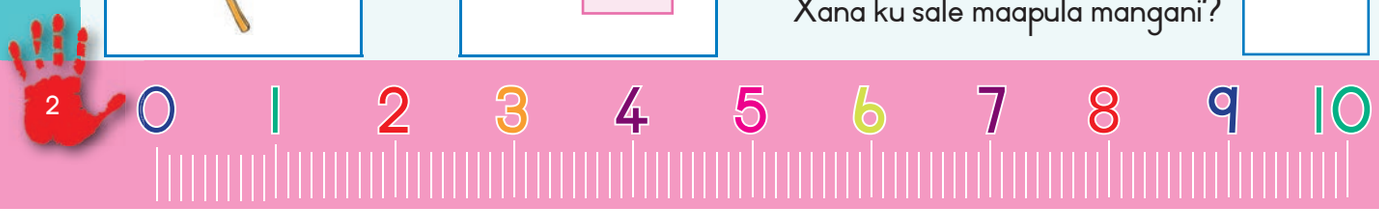


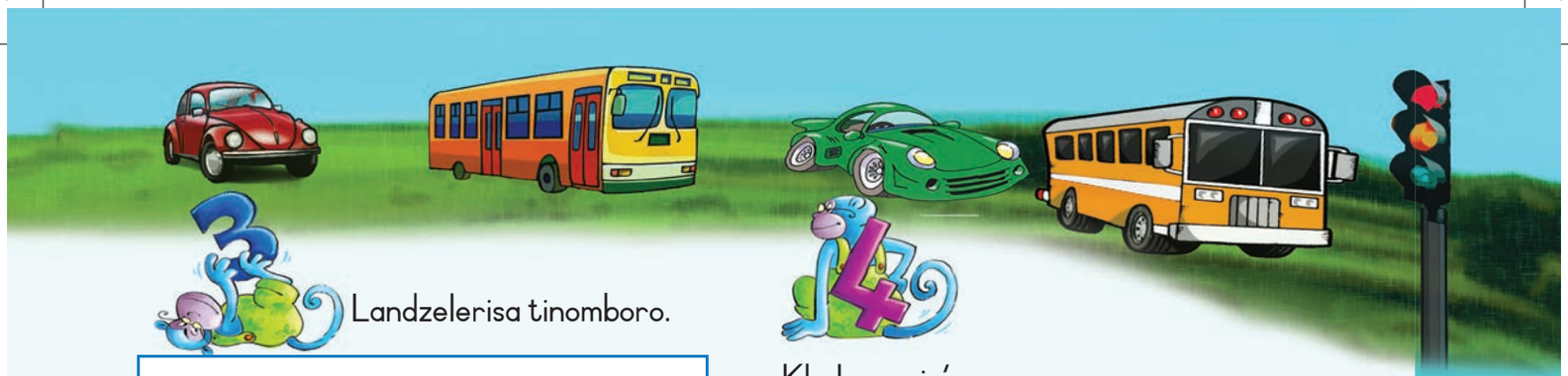
Xana ku sale malekere mangani?

Bana xirhendzevutana eka 10 wa maapula ntsena.



Xana ku sale maapula mangani?





Landzelerisa tinomboro.

II	II	II	II
khumen'we			
II	II	II	II

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

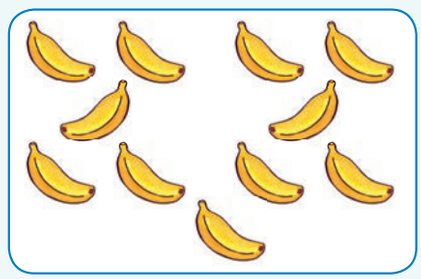
Dirowa II wa minchumu.

Tatisa tinomboro leti siyiweke.

1	2		4	

Hlayela minchumu leyi landzelaka.





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

		khumen'we
	II	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:

11 12 13 14 15 16 17 18 19 20

Siku:

Twisisa nomboro ya 12

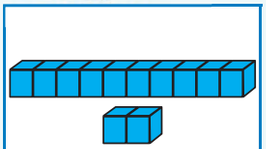
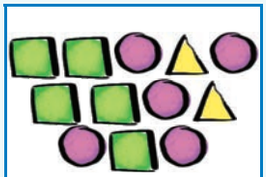
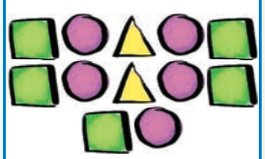
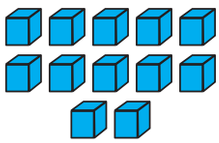
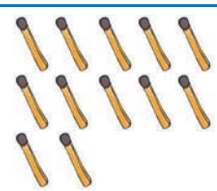
Mpfuxeto:

Titolovete ku tsala tinomboro.

 nharhu	3 3
 mune	4 4



Yelanisa swifaniso.

	
	12
10 2	
12	
	10 2



Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa tintanghu ntsena.



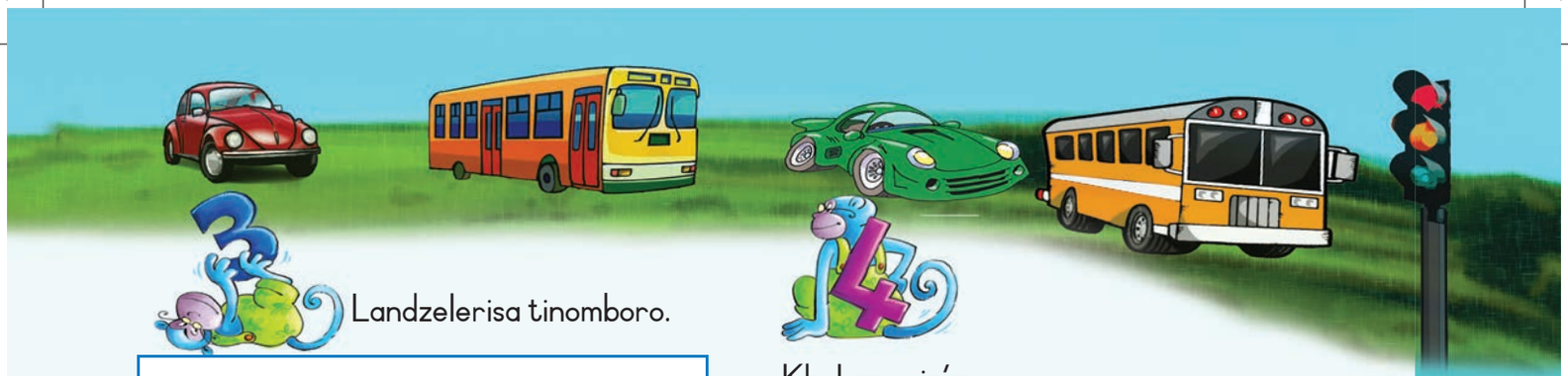
Xana ku sale tintanghu tingani?

Bana xirhendzevutana eka 12 wa tinkatla ta lwandle ntsena.



Xana ku sale tinkatla ta lwandle tingani?

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

67

Siku:

Twisisa nomboro ya 13

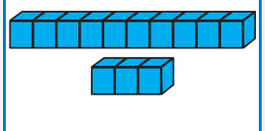
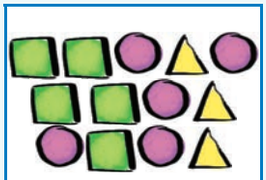
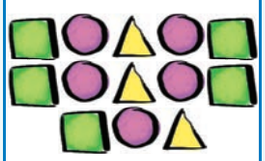
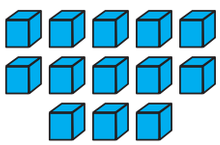
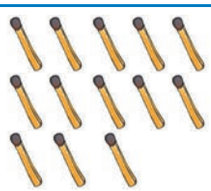
Mpfuxeto:

Titolovete ku tsala tinomboro.

 ntlhanu	5 5
 ntsevu	6 6



Yelanisa swifaniso.

	
	13
10 3	
13	
	10 3



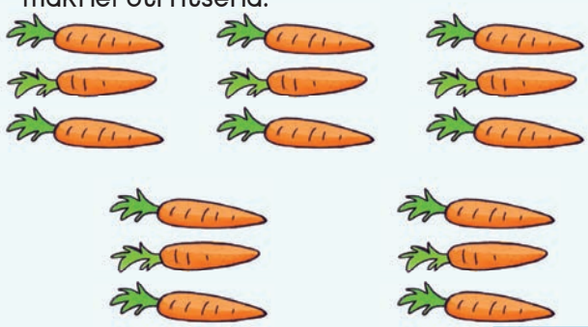
Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa swimanga ntsena.



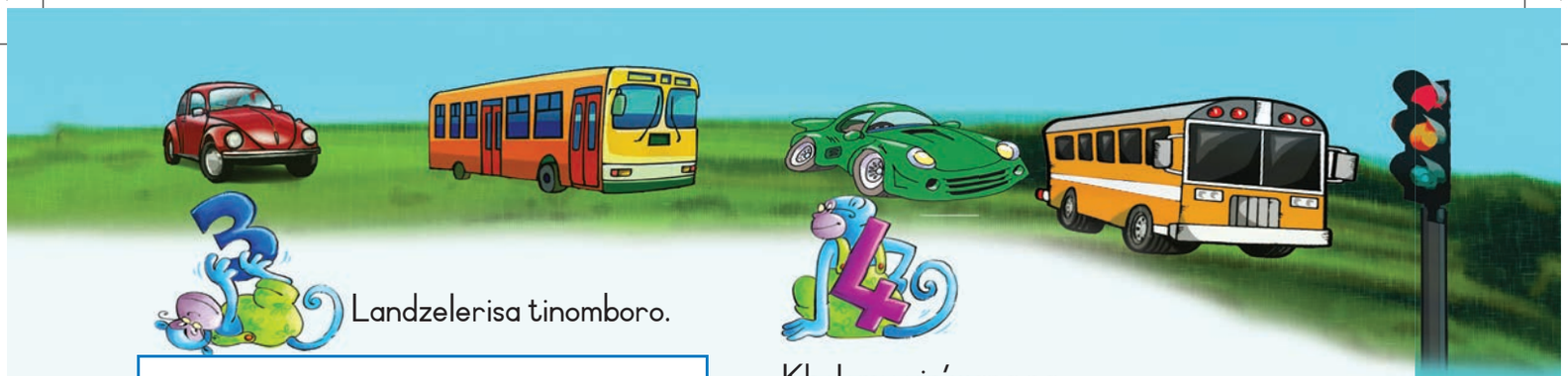
Xana ku sale swimanga swingani?

Bana xirhendzevutana eka 13 wa makheroti ntsena.



Xana ku sale makheroti mangani?

0 1 2 3 4 5 6 7 8 9 10



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

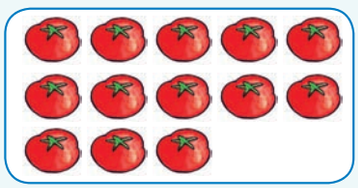
Dirowa 13 wa minchumu.

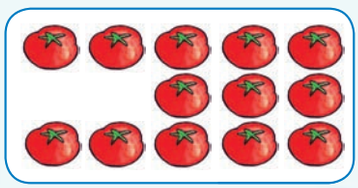
Sweswi yi dirowe hi ndlela yo hambana.

Tatisa tinomboro leti siyiweke.

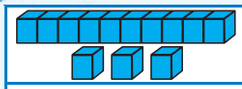
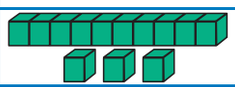
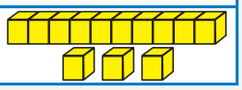
	10		12	

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

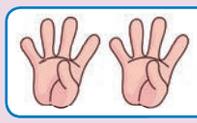
Siku:

Twisisa nomboro ya 14

Mpfuxeto:

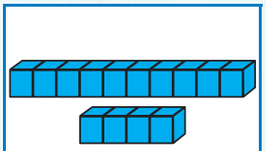
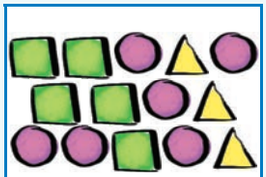
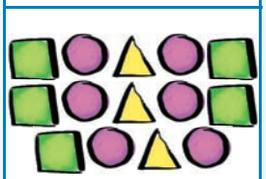
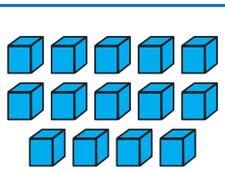
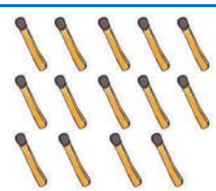
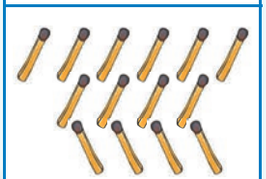
Titolovete ku tsala tinomboro.

 nkombo — 7 7

 nhungu — 8 8



Yelanisa swifaniso.

	
	14
10 4	
14	
	10 4



Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa maphaphatani ntsena.



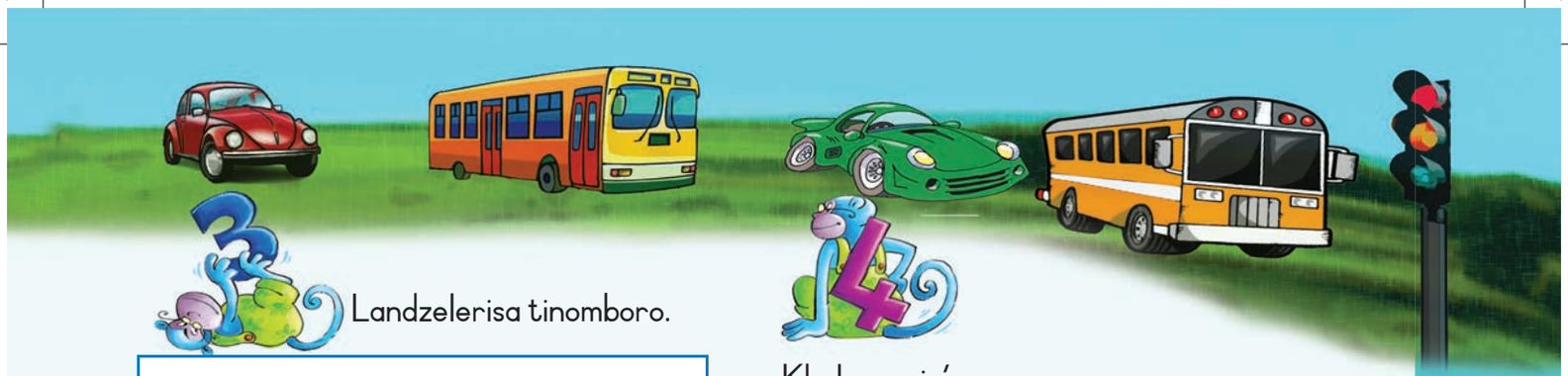
Xana ku sale maphaphatani mangani?

Bana xirhendzevutana eka 14 wa tirhoko ntsena.



Xana ku sale tirhoko tingani?

0 1 2 3 4 5 6 7 8 9 10



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

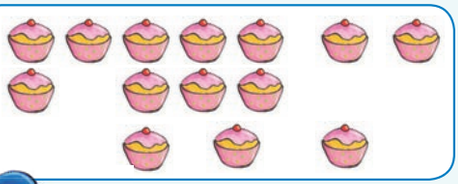
Dirowa 14 wa minchumu.

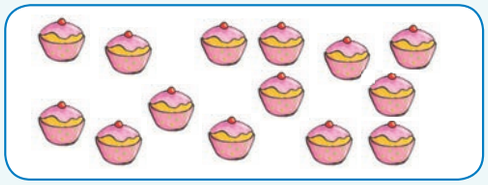
Sweswi yi dirowe hi ndlela yo hambana.

Tatisa tinomboro leti siyiweke.



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:

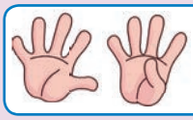
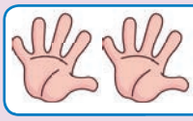
11 12 13 14 15 16 17 18 19 20

Siku:

Twisisa nomboro ya 15

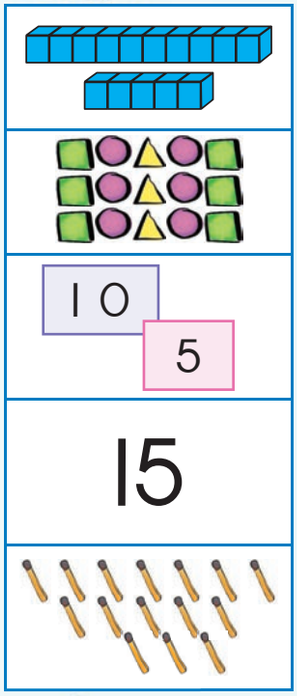
Mpfuxeto:

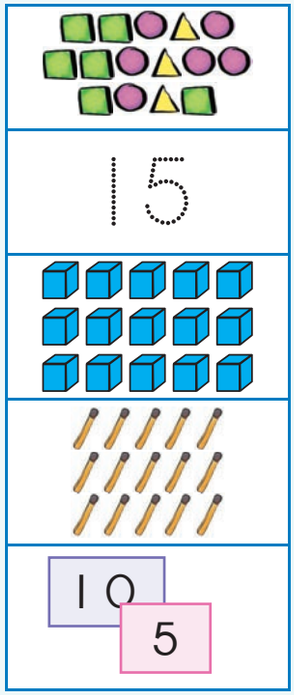
Titolovete ku tsala tinomboro.

 kaye	9 9
 khume	10 10



Yelanisa swifaniso.

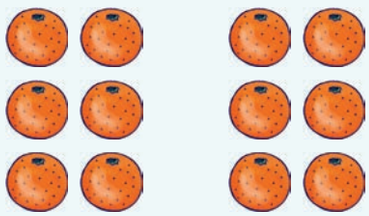






Bana swirhendzevutana eka minchumu.

Bana xirhendzevutana eka 10 wa malamula ntsena.



Xana ku sale malamula mangani?

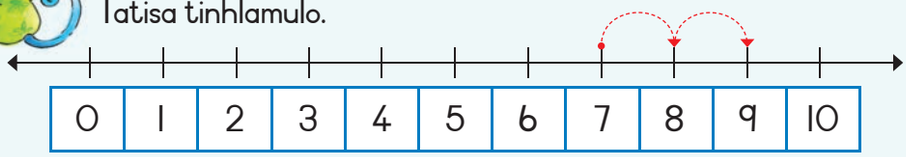
Bana xirhendzevutana eka 15 wa tinyeleti ntsena.



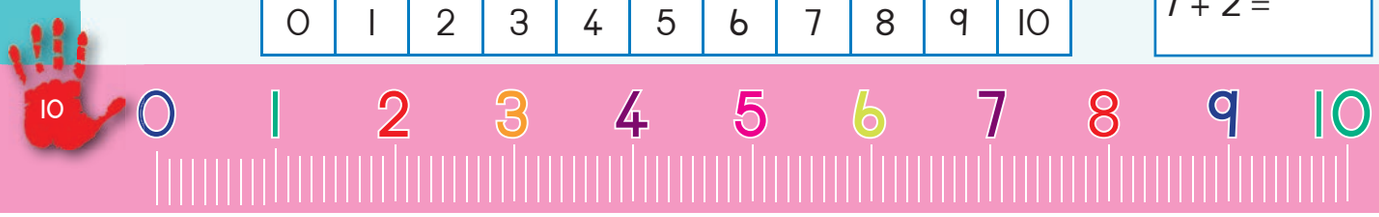
Xana ku sale tinyeleti tingani?

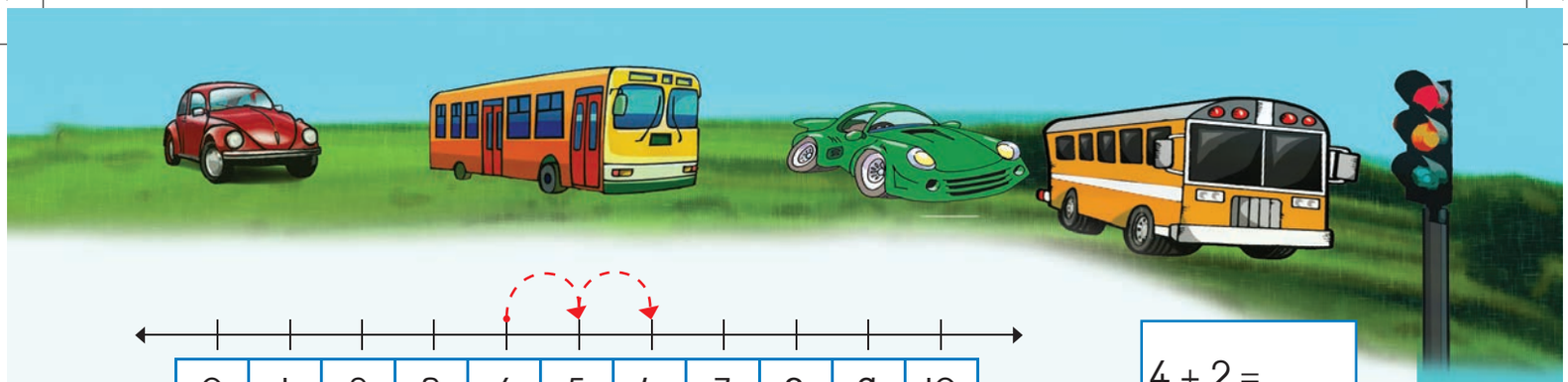


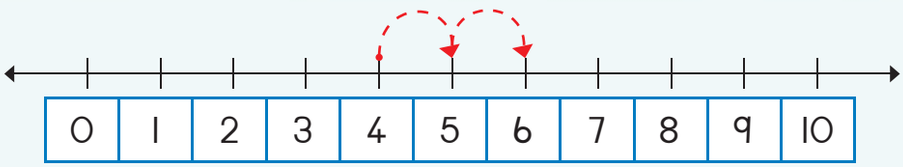
Tatisa tinhlamulo.



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.

11 12 13 ____ 15

15 ____ 13 12 ____



Hlayela minchumu leyi landzelaka.

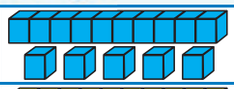
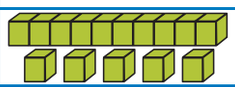
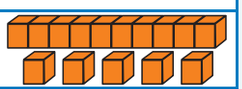






Hetisa tafula leri landzelaka. Rixaxa rin'wana na rin'wana ri na xifaniso, nomboro na vito ra nomboro leyo.



	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

70

Siku:

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

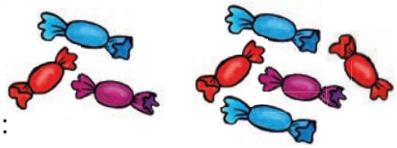
Mpfuxeto:

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?

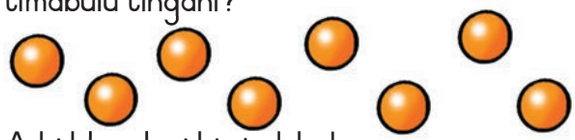


A hi hlayeleni:

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?

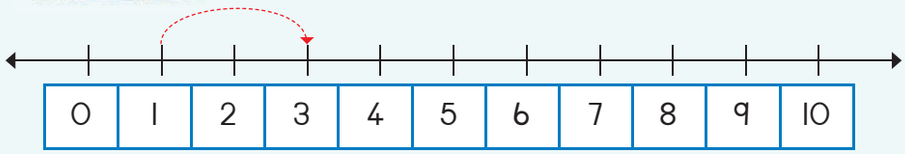


A hi hlayeleni hi xindzhaku:

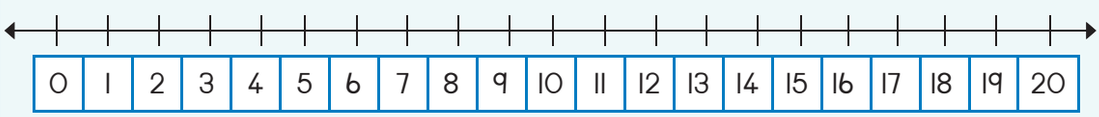
8	...	7	6	5	4

☐ – ☐ = ☐

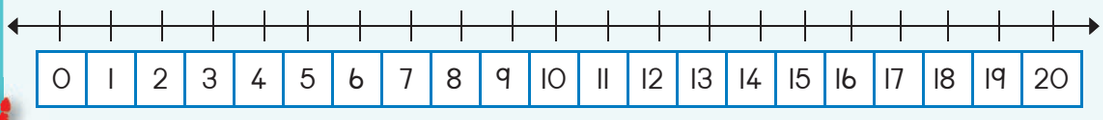
Tatisa tinhlamulo.



1 + 2 = ☐



13 + 2 = ☐

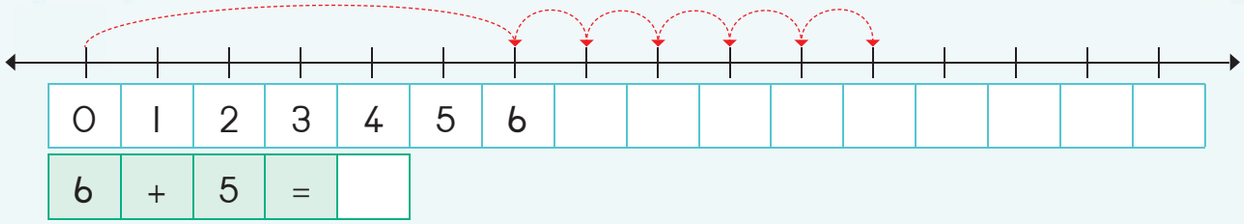


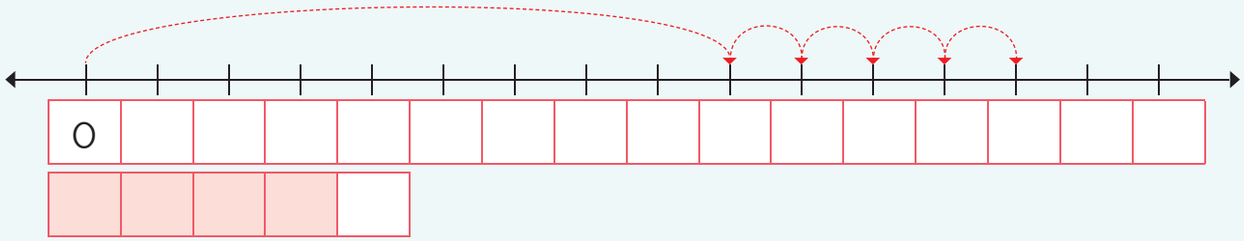
15 + 2 = ☐

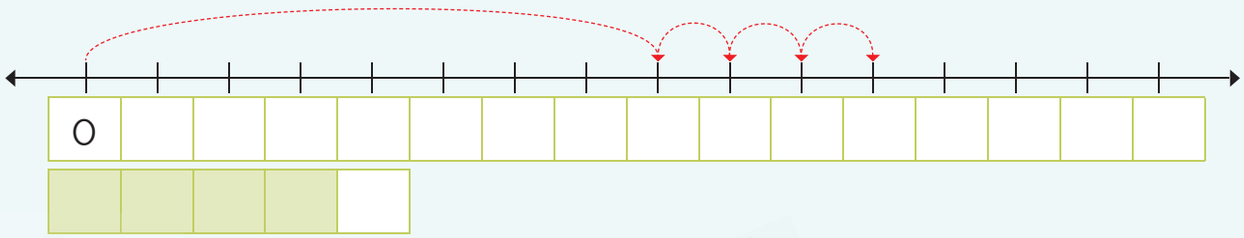




Tatisa tinomboro eka ndzhati wa mintsengo u tlhela u tsala xivulwa xa tinomboro xa ndzhati wun'wana na wun'wana wa mintsengo.









Engetela 2.

3	5
4	
2	



7	
8	
6	



Tatisa tinomboro.

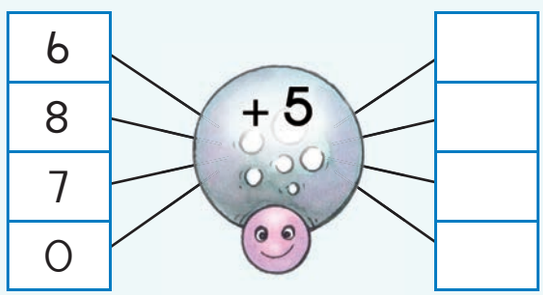


Pfuna pume ku hetisa nhlayo.

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.





Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

71

Siku:

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

Mpfuxeto:

Titolovete ku tsala vito ra nomboro.

7 nkombo



Tatisa nhlamulo.

3 + 3 = ☐



0 + 5 = ☐



3 + 2 + 1 = ☐



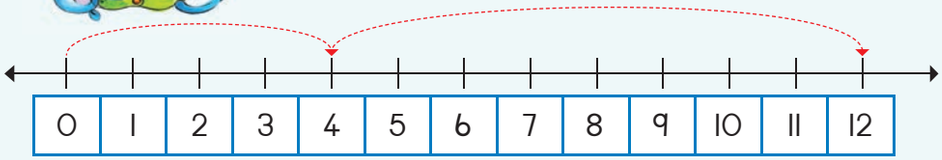


Khalara ku kombisa leswi landzelaka.

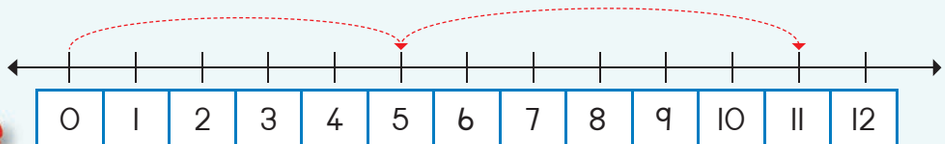
3 + 9	●●●●●●●●●●●●
4 + 8	○○○○○○○○○○○○
5 + 7	○○○○○○○○○○○○
6 + 6	○○○○○○○○○○○○
7 + 5	○○○○○○○○○○○○



Tsala nhlayo ya:

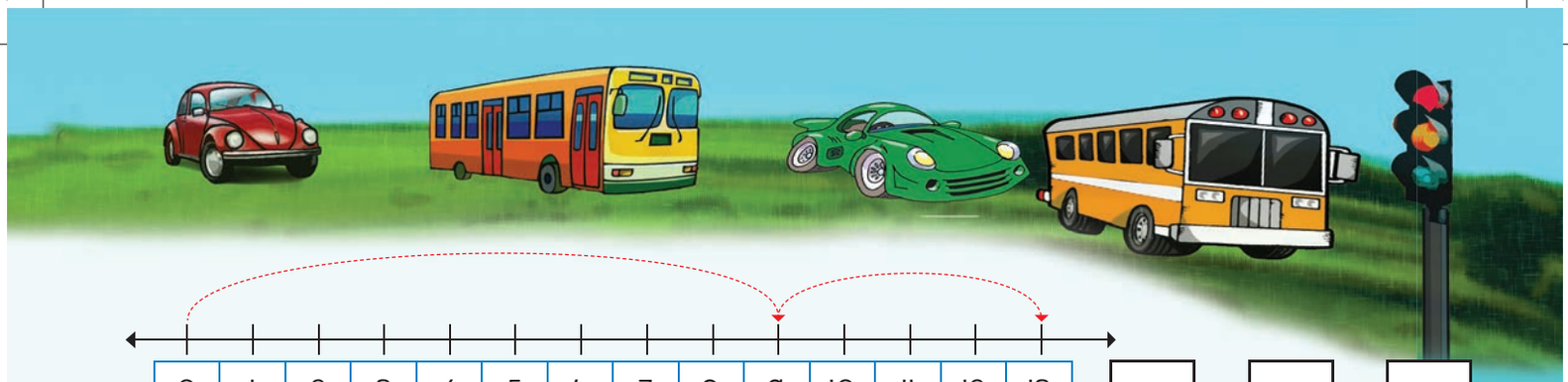


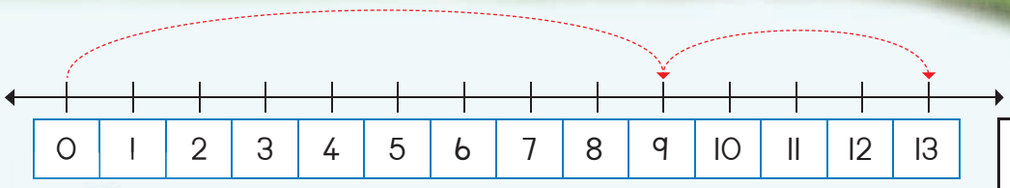
☐ + ☐ = ☐



☐ + ☐ = ☐

0 1 2 3 4 5 6 7 8 9 10

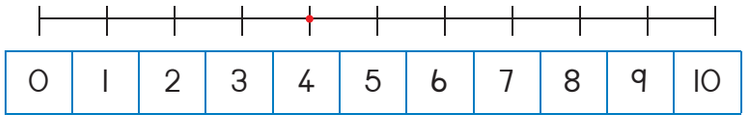




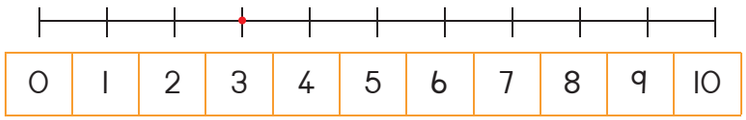
☐ + ☐ = ☐



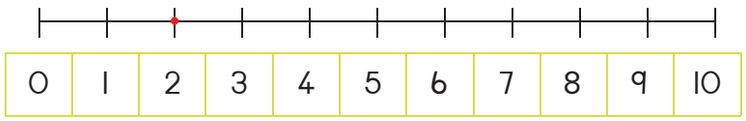
Hetisa ndzhati wa mintsengo u tlhela u tatisa nhlamulo.



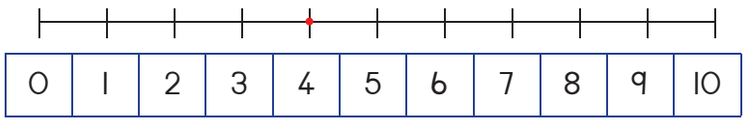
4 + 5 + 1 = ☐



3 + 3 + 2 = ☐



2 + 4 + 3 = ☐



4 + 3 + 2 = ☐



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?

☐ + ☐ = ☐

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.

☐ + ☐ = ☐



Teacher:
Sign:
Date:



72

Siku:

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

Mpfuxeto:

Titolovete ku tsala vito ra nomboro.

8 nhungu

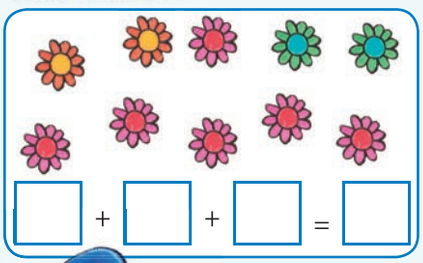


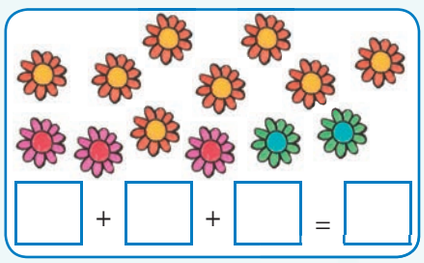
Tatisa nhlamulo.

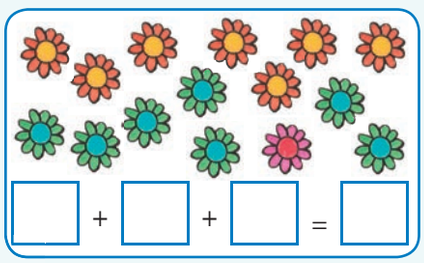
0 + 2 =		2 + 2 =		4 + 2 =		6 + 2 =		8 + 2 =	
10 + 2 =		12 + 2 =		14 + 2 =		16 + 2 =		18 + 2 =	



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







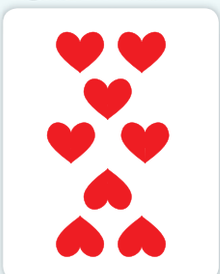


Pfuna pume ku hetisa tinhlayo.

12	+5	
14		
11		
9		



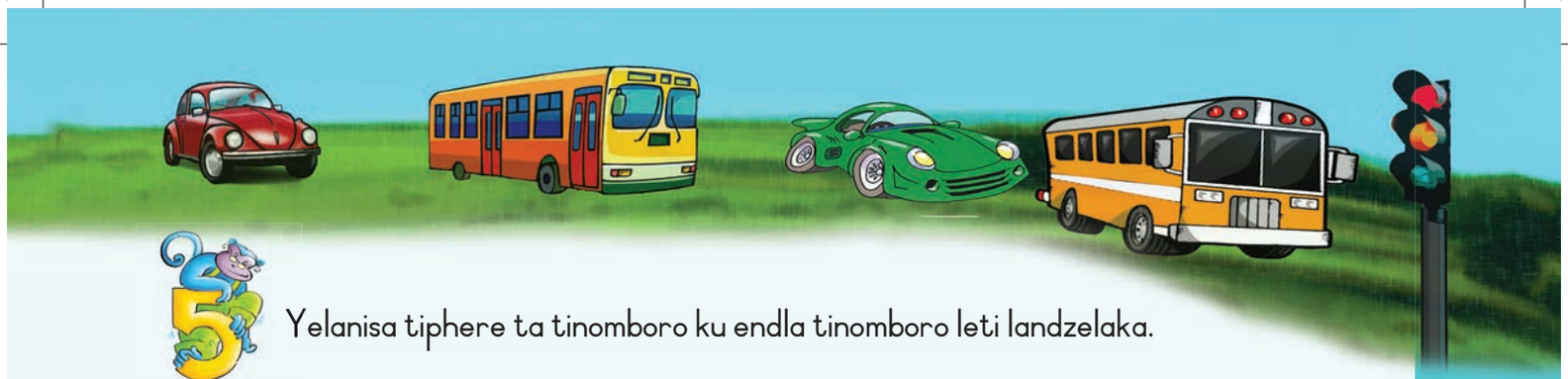
Ku na timbilu tingani?



Endla nhlayo ya wena.

+ =

0 1 2 3 4 5 6 7 8 9 10



Yelanisa tiphere ta tinomboro ku endla tinomboro leti landzelaka.

13

7	5
8	4
9	6
10	2
11	3

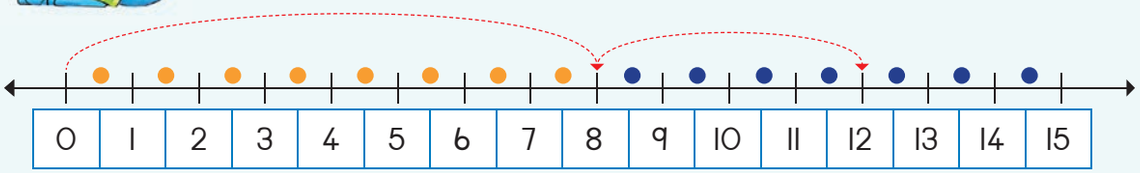
11

6	7
7	4
3	8
4	5
5	6

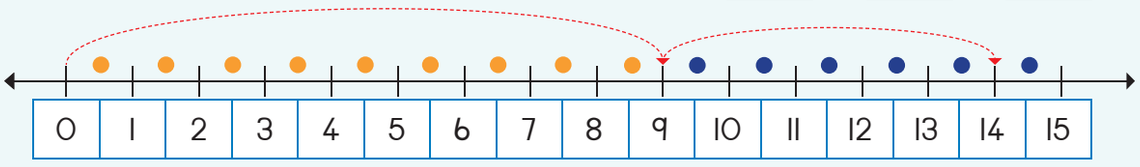
12

8	6
10	1
4	8
11	4
6	2

Tsala xivulwa xa tinomboro xa:



□ + □ = □



□ + □ = □

Mpfuxeto:

Mpfuxeto: Khalara nhlamulo leyi nga yona.

			
xifaniso xa le mahlweni	xifaniso xa le mahlweni	xifaniso xa le mahlweni	xifaniso xa le mahlweni
xifaniso xa le ndzhaku	xifaniso xa le ndzhaku	xifaniso xa le ndzhaku	xifaniso xa le ndzhaku
xifaniso xa le tlhelo	xifaniso xa le tlhelo	xifaniso xa le tlhelo	xifaniso xa le tlhelo

Teacher:
Sign:
Date:

73

Siku:

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

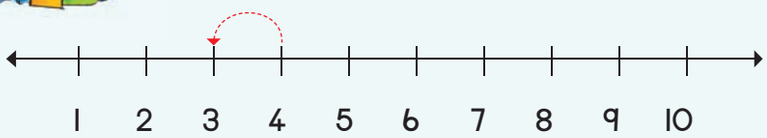
Mpfuxeto:

Titolovete ku tsala vito ra nomboro.

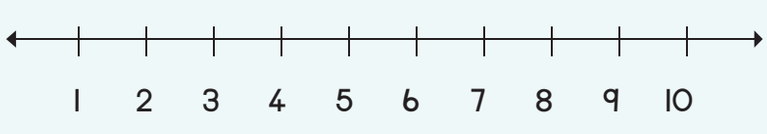
9 kaye



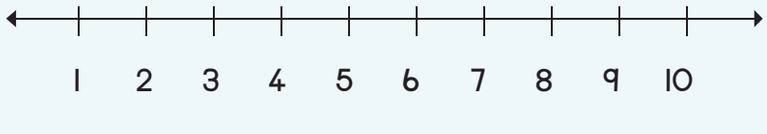
Tatisa nhlamulo.



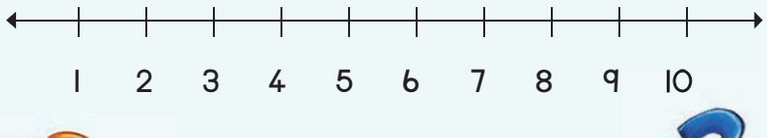
4 – 1 = ☐



5 – 3 = ☐



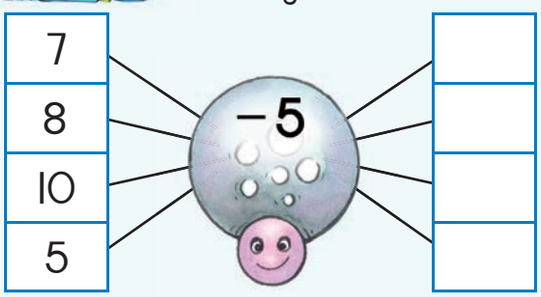
4 – 2 = ☐



5 – 2 = ☐

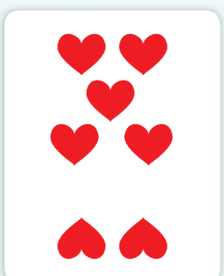


Pfuna pume ku hetisa tinhlayo.





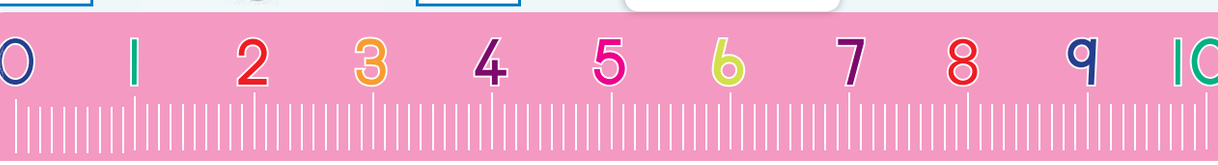
Ku na timbilu tingani?

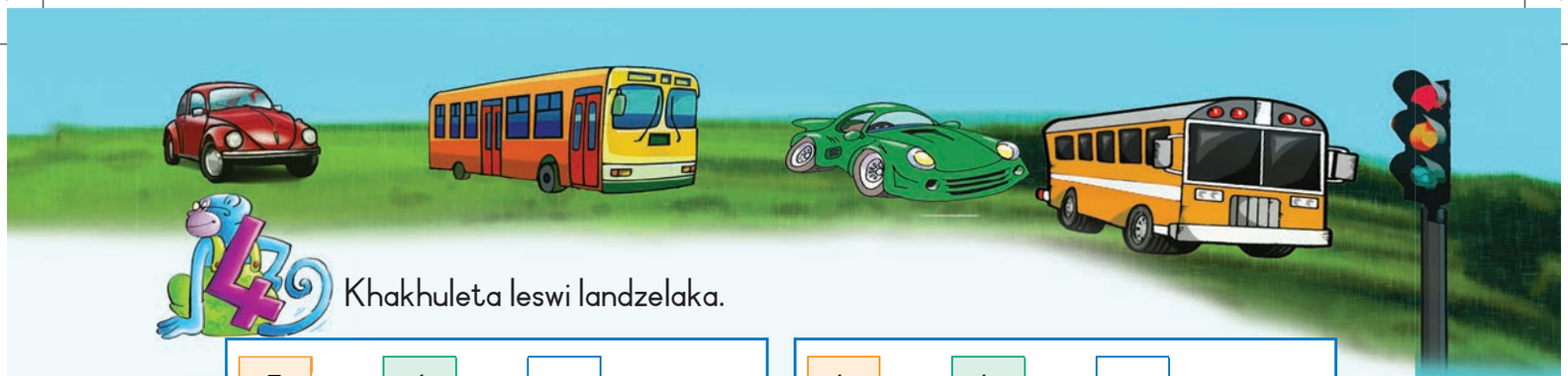


Endla nhlayo ya wena.

☐ + ☐ = ☐







4 Khakhuleta leswi landzelaka.

7	+	4	=		6	+	6	=	
7	+	4	+	1	=		6	+		+		=	
10	+	1	=		10	+		=	

13	–	6	=		12	–	8	=	
13	–	3	+	3	=		–		+		=	
10	–	3	=		10	–	3	=	

5 Tsala tinhlamulo, u khalara u tlhela u dirowa.

8 + 6 = ____

Ku na tibolo tingani?

(8 + 2) + 4 = ____ → 10 + 4 = ____

15 – 7 = ____

Ku na tibolo tingani?

(15 – 5) – 2 = ____ → 10 – 2 = ____

9 + 4 = ____

Ku na tibolo tingani?

(9 + 1) + 3 = ____ → ____

14 – 5 = ____

Ku na tibolo tingani?

(–) – 1 = ____ → 10 – 1 = ____

Mpfuxeto:

Titolovete ku tsala vito ra nomboro.

10 khume

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Siku:

Ku leha

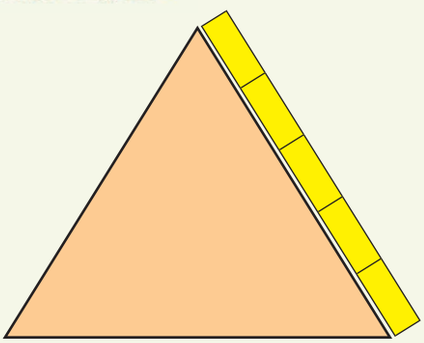
Kotara ya 3

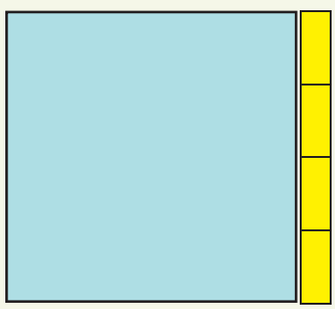
1 Languta xifaniso kutani u hlamula swivutiso leswi landzelaka.

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?

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







0 1 2 3 4 5 6 7 8 9 10



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



Vuanami i _____ wa tibuloko.

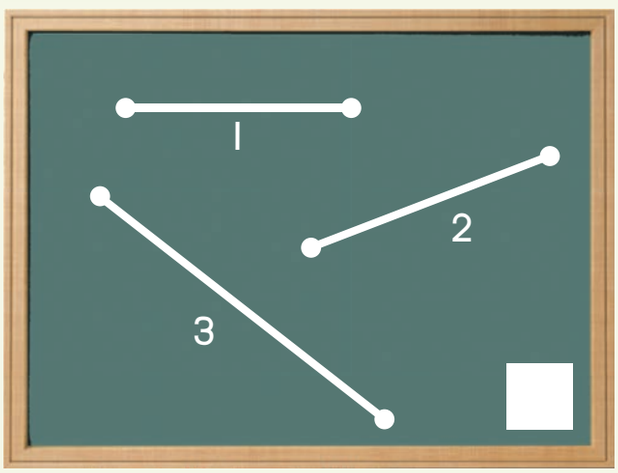
Vulehi i _____ wa tibuloko.



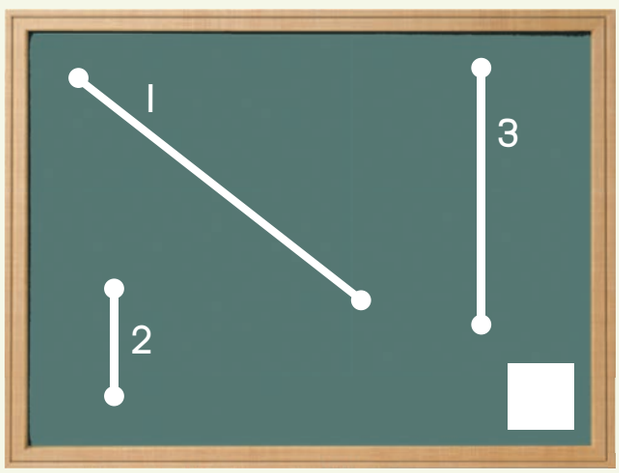
Vuanami i _____ wa tibuloko.

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?



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Siku:

Mali na cinci

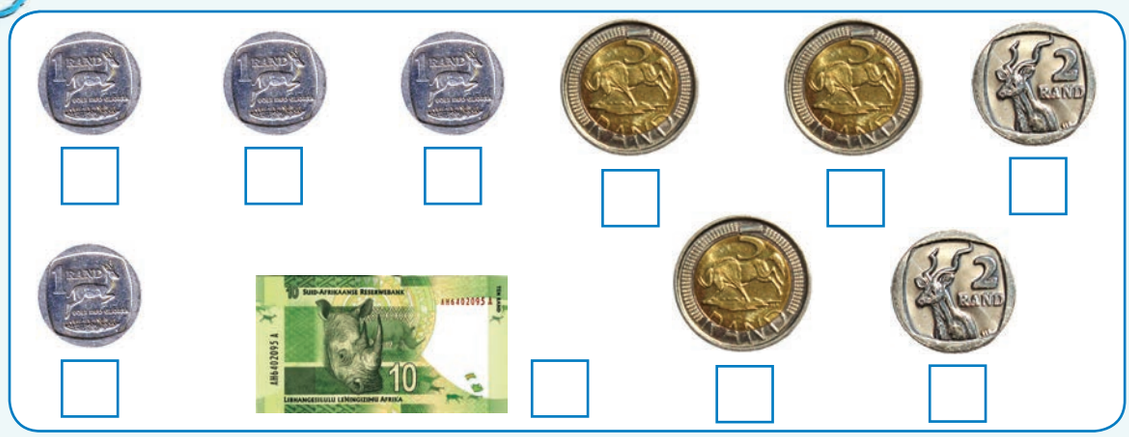
Gwajula ntsengo wa le henhla swinene eka rixaxa rin'wana na rin'wana.



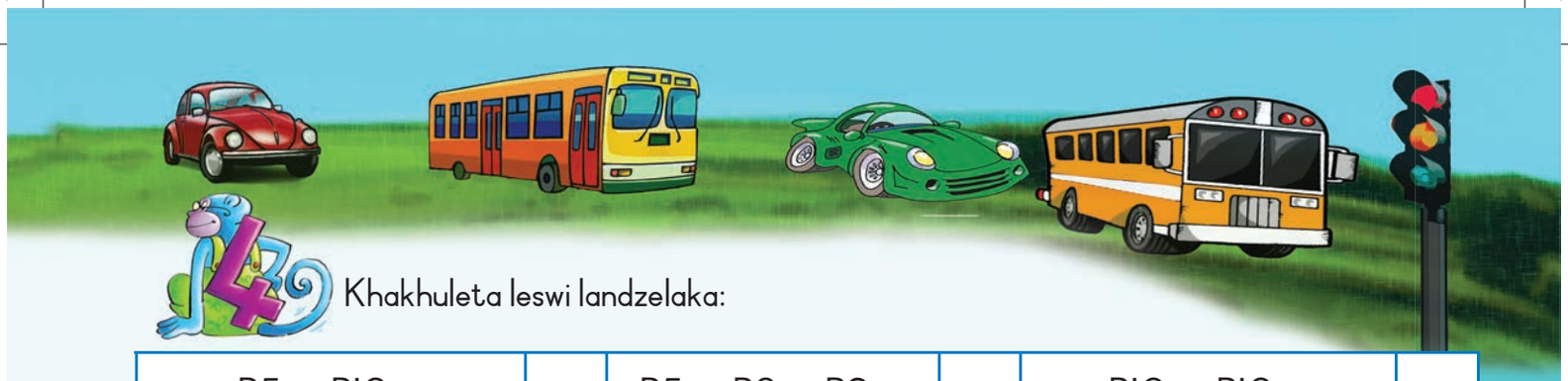
Gwajula swingwece leswi ku nyikaka R10.



Gwajula swingwece leswi ku nyikaka R20.



0 1 2 3 4 5 6 7 8 9 10



4 Khakhuleta leswi landzelaka:

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

5 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?

6 Ndzi na RI5:

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

7 Khakhuleta leswi landzelaka:

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

8 Yisa ehansi hi R2.

RII		R4	
RI2		R6	
RIO		R8	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Siku:

Mali na cinci

1 Dirowa swingwece swo endla:

RII	
RI2	
RI3	
RI4	

2 Gwajula u tlhela u tsala nhlamulo leyi faneleke.

RI8 – R8 = RIO



RI2 – R2 =

RI5 – R4 =



RI4 – R7 =

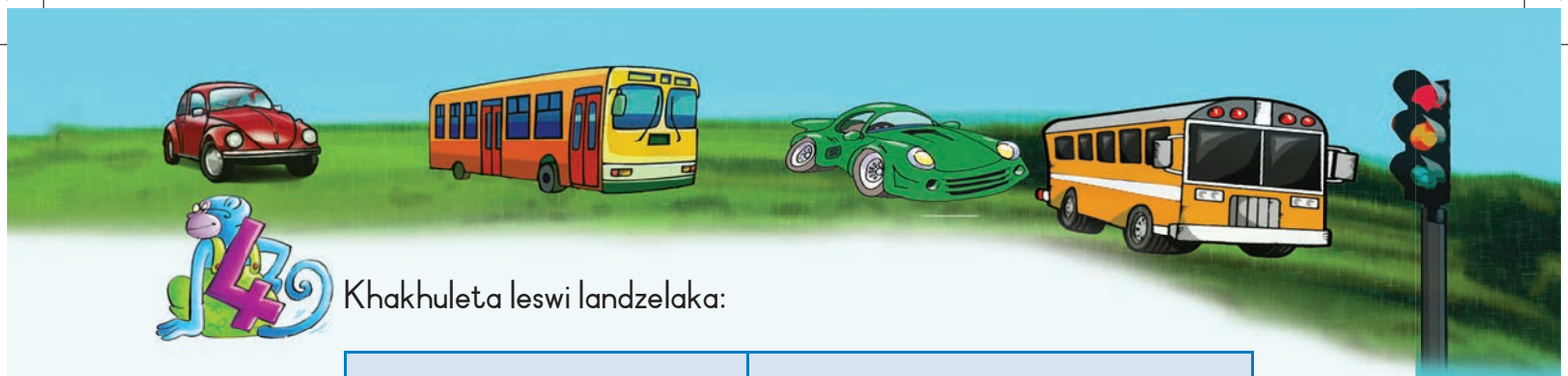
3 Khakhuleta leswi landzelaka:

RI5 – RIO =	
RIO – RI – RI – R2 =	

R20 – R2 – R8 =	
R5 – R4 =	

R20 – R5 =	
RIO – RI – R5 – R2 =	

0 1 2 3 4 5 6 7 8 9 10



4 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 =	

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





Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Siku:

Mali: ku hlanganisa na ku susa



Khakhuleta leswi landzelaka:

R10 + R2 =		R10 + R5 =		R10 + R1 =	
R10 + R4 =		R10 + R7 =		R10 + R6 =	
R9 + R5 =		R8 + R4 =		R7 + R6 =	
R12 + R5 =		R14 + R2 =		R11 + R6 =	



Khakhuleta leswi landzelaka:

R10 − R7 =		R10 − R2 =		R10 − R5 =	
R15 − R1 =		R15 − R15 =		R15 − R2 =	
R12 − R2 =		R14 − R7 =		R16 − R6 =	
R15 − R6 =		R12 − R9 =		R14 − R4 =	

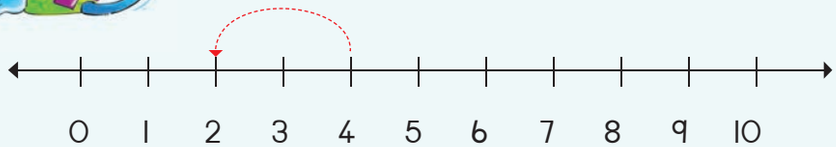


Pfuna pume ku hetisa tinhlayo hinkwato.

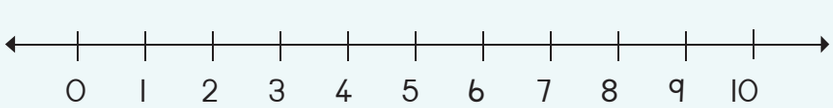
R16		
R14	− R4	
R10		
R12		



Yisa ehansi hi R2.

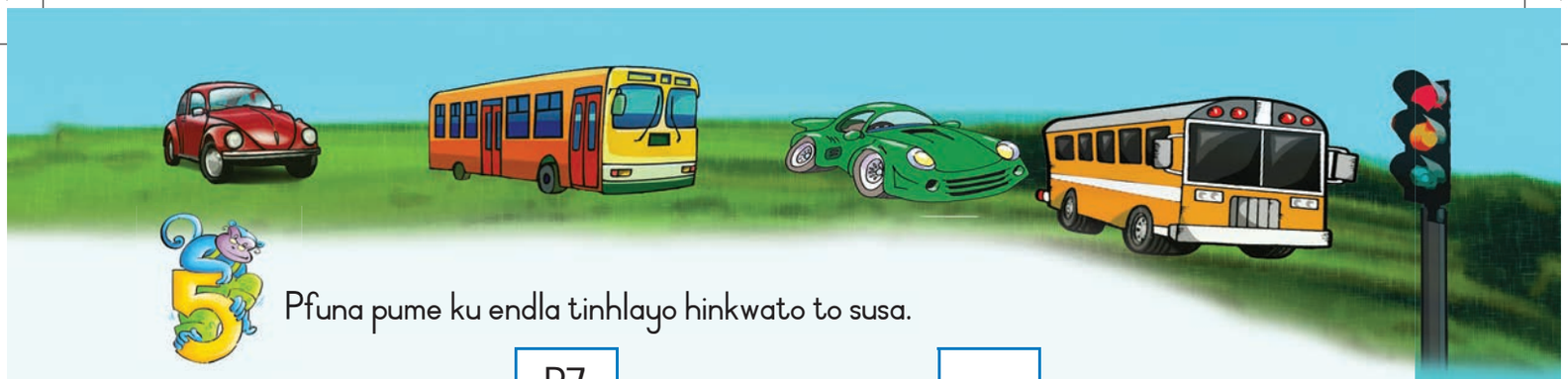


R4 − R2 =

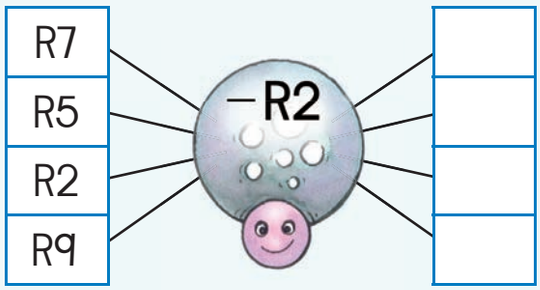


R7 − R2 =

0 1 2 3 4 5 6 7 8 9 10



5 Pfuna pume ku endla tinhlayo hinkwato to susa.



6 Ololoxa leswi landzelaka.

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

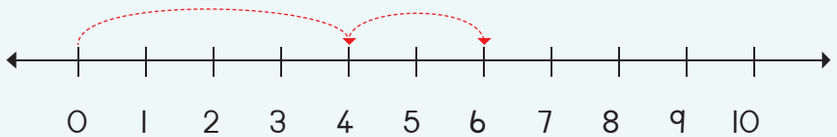
U na R19. U xava malekere hi R6. Xana u sale na mali muni?

7 Xana ndzi hlayisile mali muni?



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

R4 + R2 =



R8 + R2 =



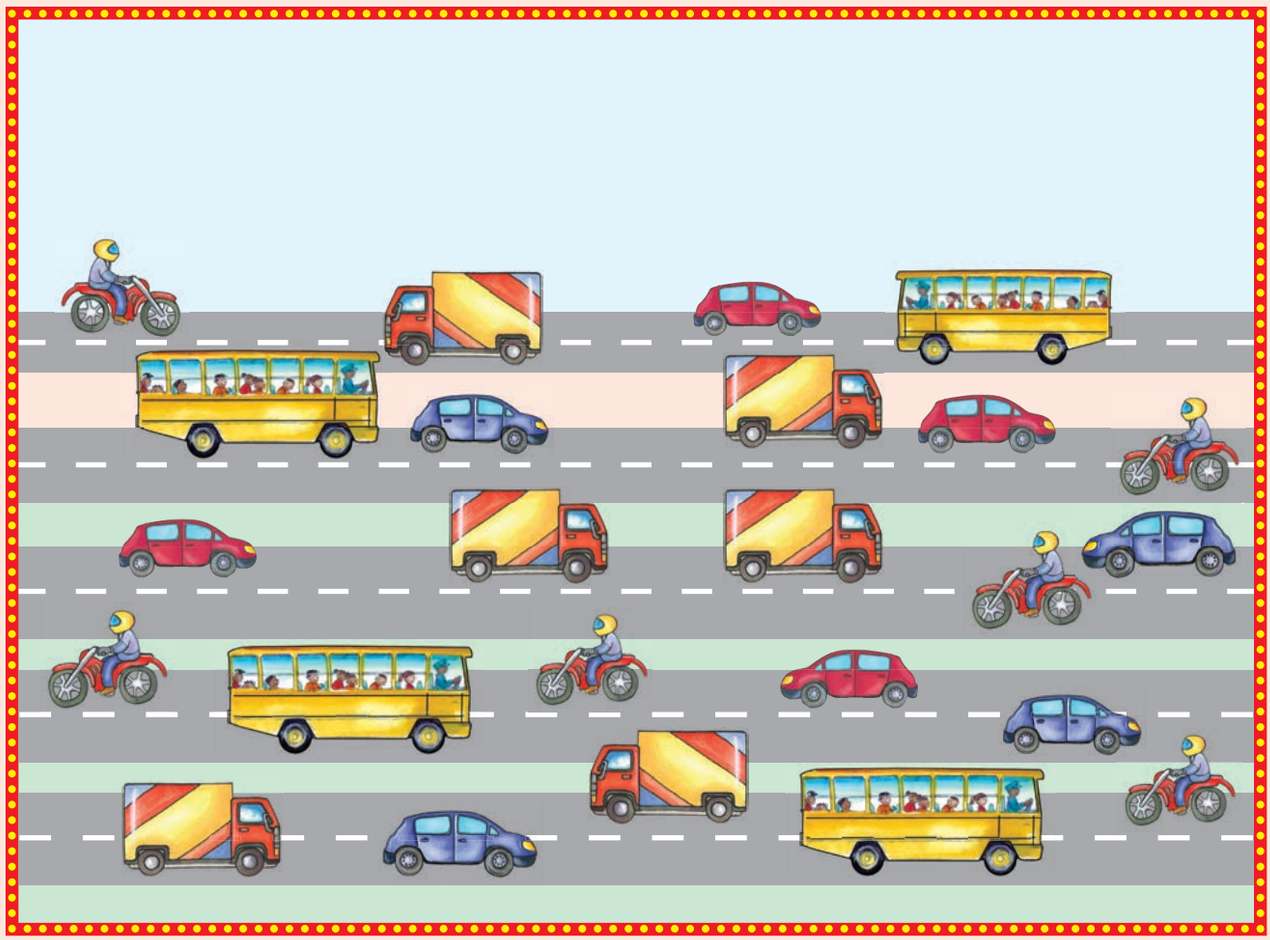
Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Siku:

Switiviwa

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











0 1 2 3 4 5 6 7 8 9 10



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:

11 12 13 14 15 16 17 18 19 20

Siku:

Switiviwa na nkarhi

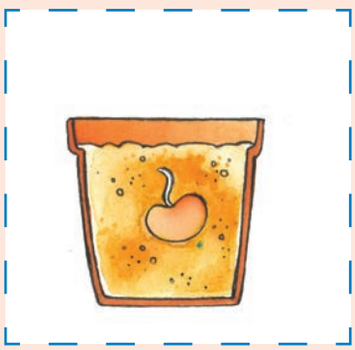
Vulavula hi swifaniso leswi landzelaka kutani u swi veka hi ndzandzelelano lowu faneleke.



1



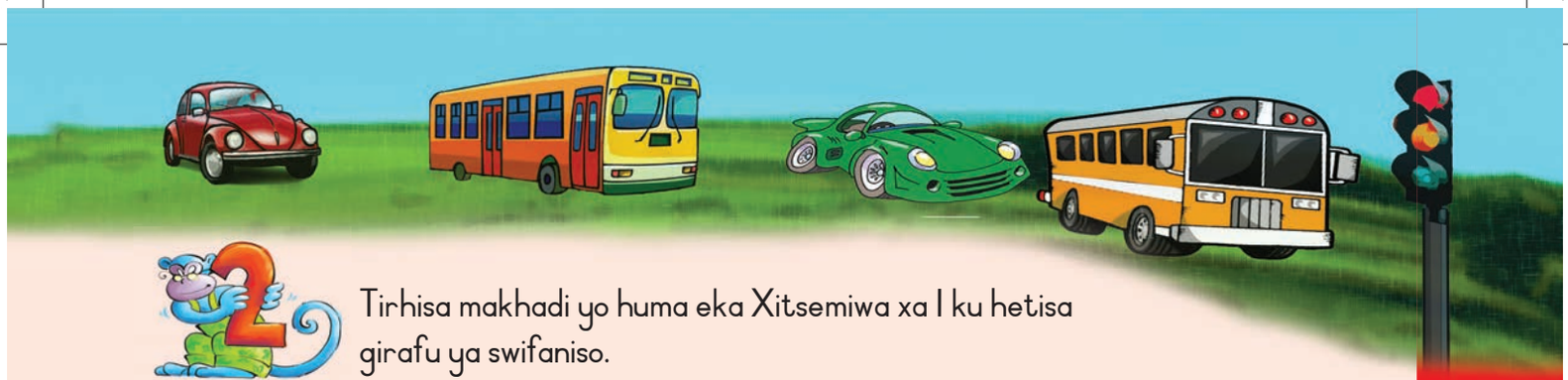
2



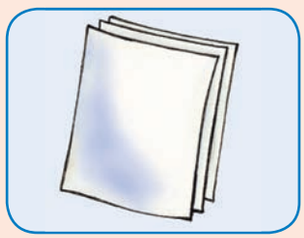
3



4



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



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Siku:

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?

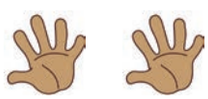
Dirowa xifaniso xa wena laha.



I ntlawa wa 5 i 5



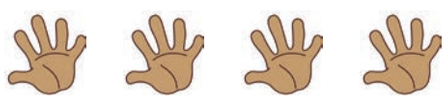
Hlayela tintiho kutani u tsala nhlamulo ya wena.



5 + 5 =



5 + 5 + 5 =



5 + 5 + 5 + 5 =

2 wa mintlawa ya 5 i 10

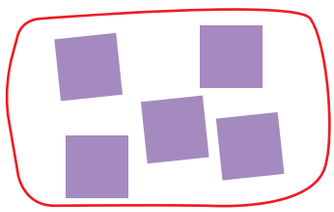
0 1 2 3 4 5 6 7 8 9 10

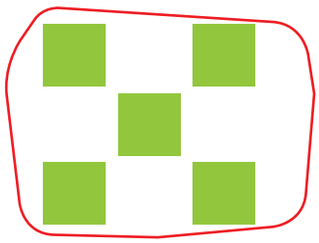


Dirowa swirhendzevutana eka leswi landzelaka ku endla:

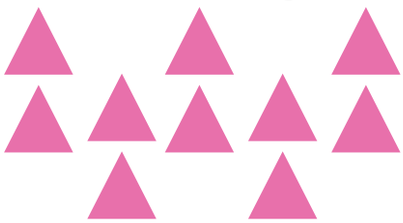
Tsala swivulwa swa tinomboro swa leswi landzelaka.

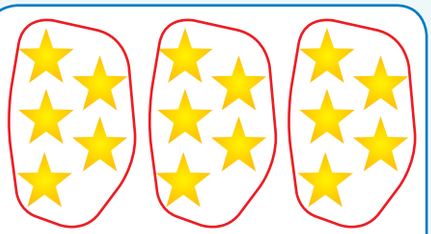
I ntlawa wa 5



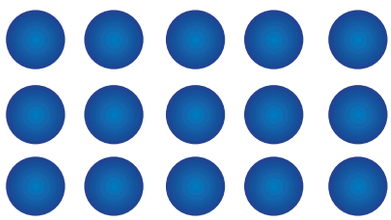


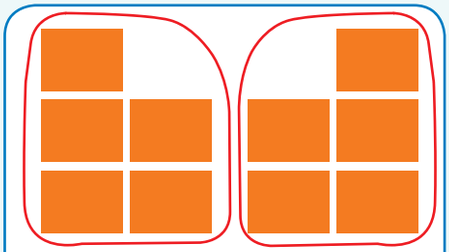
2 wa mintlawa ya 5





3 wa mintlawa ya 5





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

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

81

Siku:

Vuntlhanu: ku hlanganisa ko vuyeleriwa ku fika eka 15

Mpfuxeto:

Mpfuxeto: Tatisa tinomboro leti siyiweke.





Ku na swikunwana swingani na tintiho tingani?
Tsala xivulwa xa tinomboro 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

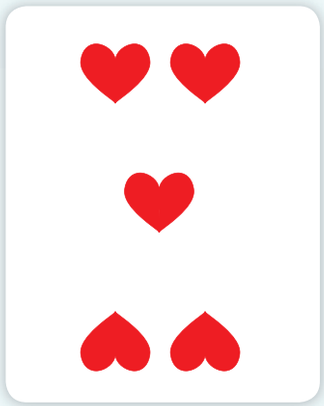
5 + 5 + 5 =

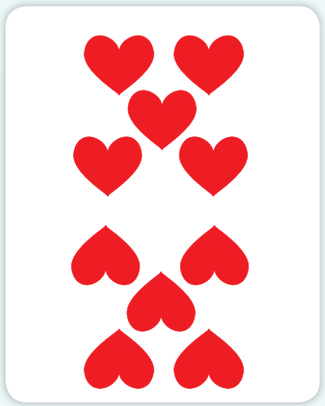


0 1 2 3 4 5 6 7 8 9 10

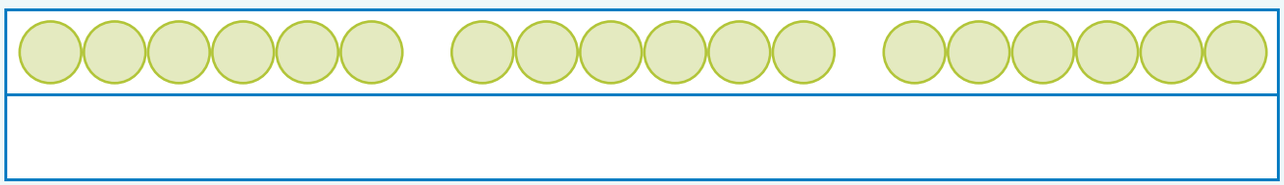


Bana xirhendzevutana u tlhela u hlayela leswaku i mintlawa yingani ya vuntlhanu leyi u nga yi endlaka eka khadi rin'wana na rin'wana.





Tsala xivulwa xa tinomboro xa:



Tirhisa mihlovo yo hambana ku kombisa tinomboro leti u nga ta ti tirhisa ku endla mintlawa ya vuntlhanu.

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

Xana i mintlawa yingani ya vuntlhanu leyi u nga yi endlaka?

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



82

Siku:

Vuntlhanu ku fika eka 15

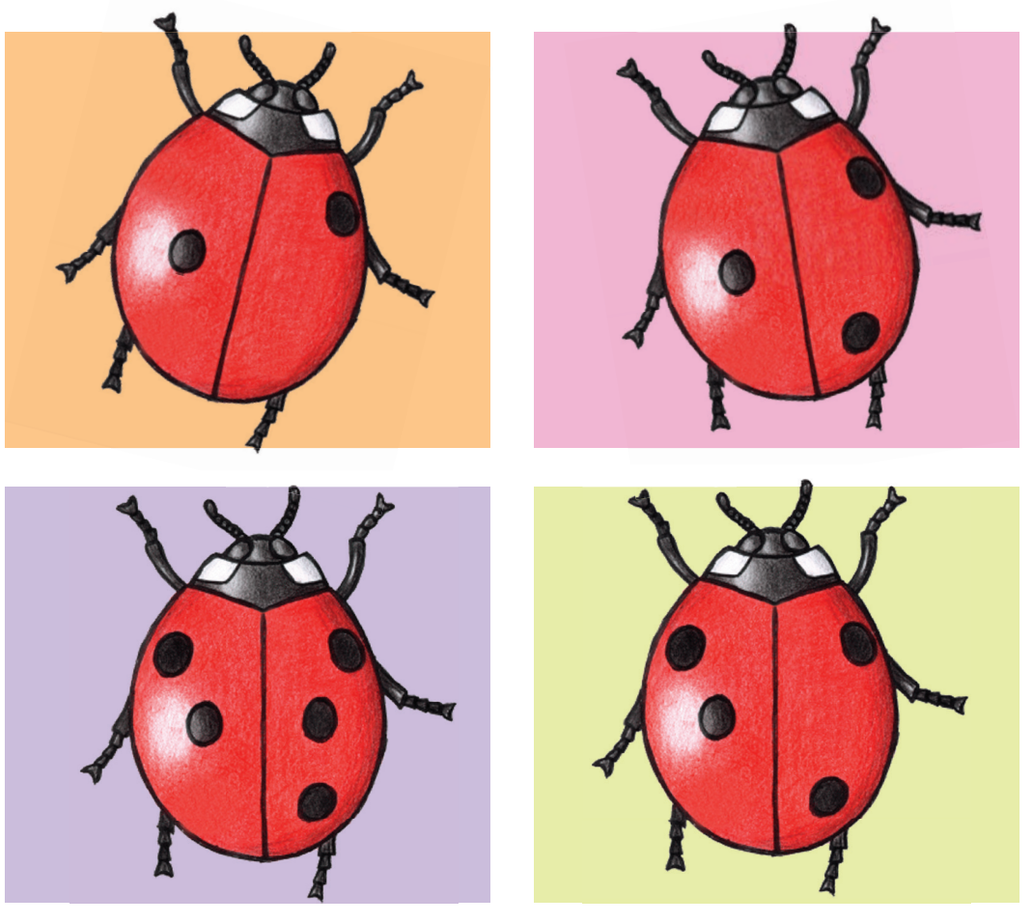


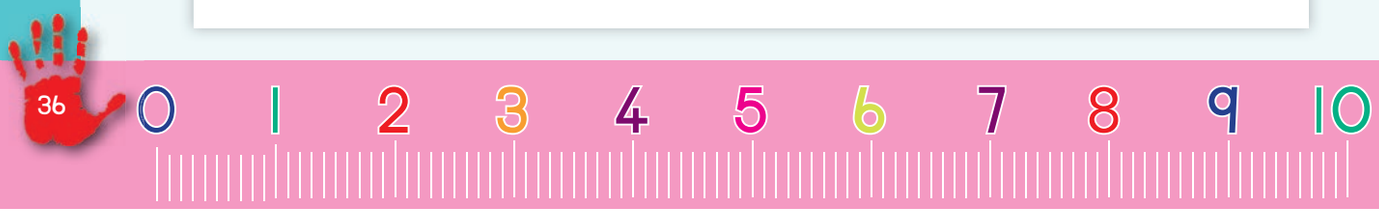
Tatisa tinomboro leti siyiweke.

1		3		5		7	8	9	
11	12								



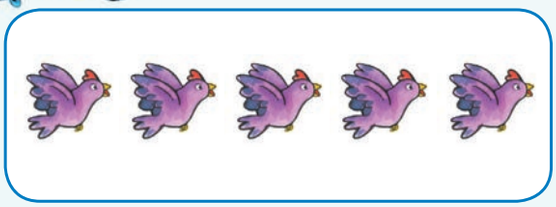
Endla mintlawa ya vuntlhanu. Xifufunhunu xin'wana na xin'wana xi na ntlawa wa mathonsi ya ntima ya ntlhanu eka rimpapa rin'wana na rin'wana. Dirowa mathonsi lama siyiweke.

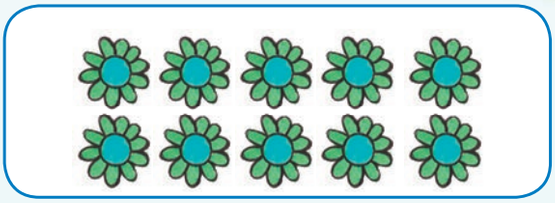


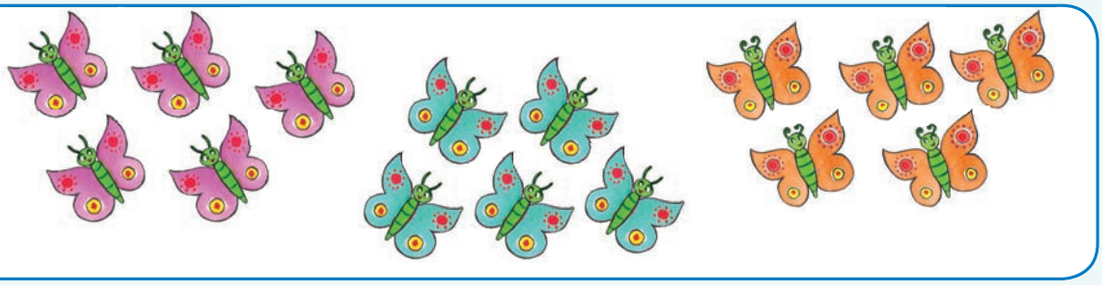




3 Tsala xivulwa xa tinomboro xa xin'wana na xin'wana.







4 Khakhuleta leswi landzelaka:

0 + 5 = ☐

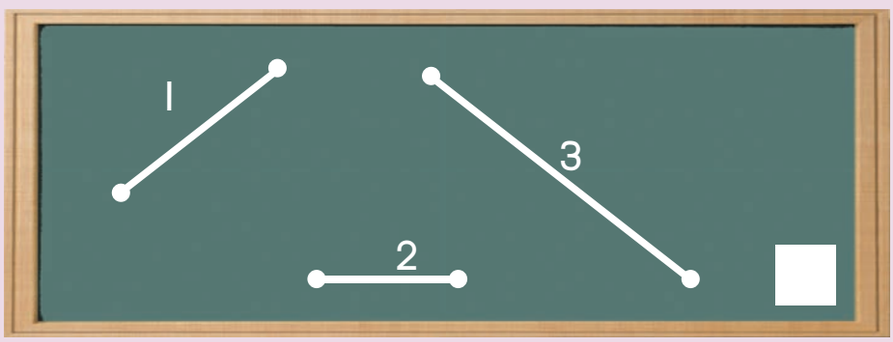
5 + 5 = ☐

5 + 5 + 5 = ☐

5 + 5 + 5 + 5 = ☐

Mpfuxeto:

Mpfuxeto: Hi wihi ntila wo leha swinene?



Teacher:
Sign:
Date:



Tipatironi ta tinomboro ta vuntlhanu ku fika eka 50

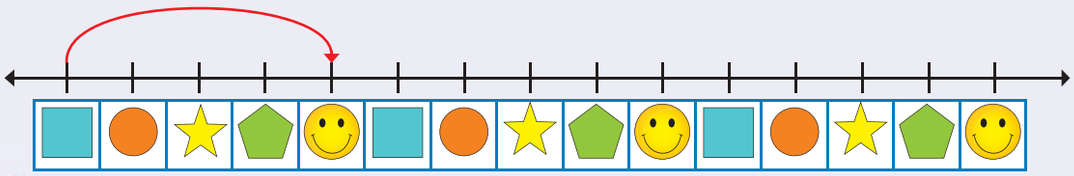


Hetisa patironi ya vuntlhanu hi ku khalara tinomboro.

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

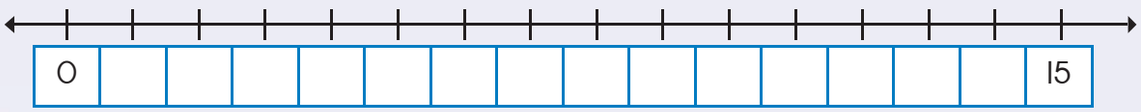


Dirowa tihupu ku kombisa mintlawa ya vuntlhanu.





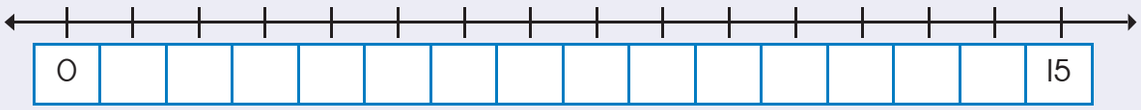
Tata tinomboro leti siyiweke u tlhela u dirowa tihupu ku kombisa mintlawa ya vuntlhanu.





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

Ku na ____ wa mintlawa ya vuntlhanu.



0 1 2 3 4 5 6 7 8 9 10



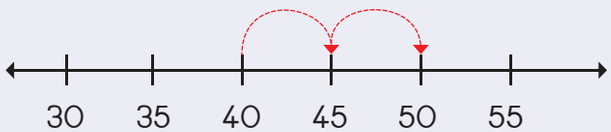
Tsema tinomboro leti siyiweke eka Xitsemiwa xa 2 kutani u ti veka eka mindzhati ya mintsengo.

	31	32	33	34		36	37	38	39	

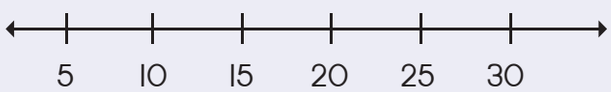
	41	42	43	44		46	47	48	49	

Dirowa tihupu ku kombisa tinomboro leti landzelaka:

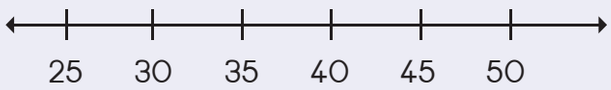
40, 45, 50



10, 15, 20



25, 30, 35



Teacher:
Sign:
Date:



Siku:

Tipatironi ta tinomboro ta vuntlhanu ku fika eka 80

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



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





0 1 2 3 4 5 6 7 8 9 10



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

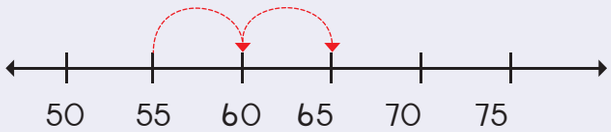
	61	62	63	64		66	67	68	69	

	71	72	73	74		76	77	78	79	

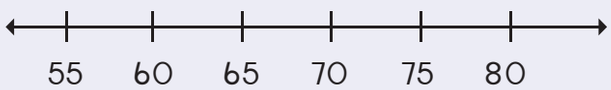


Dirowa tihupu ku kombisa leswi landzelaka:

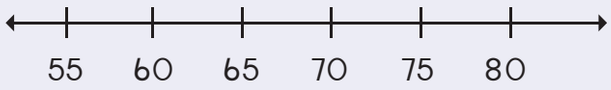
55, 60, 65



65, 70, 75



70, 75, 80





Teacher:
Sign:
Date:





Siku:

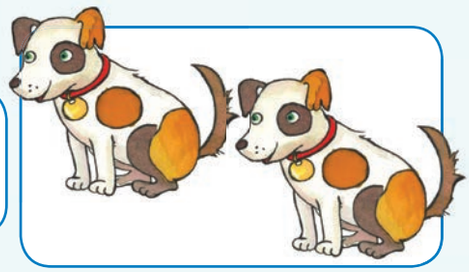
Ku mbirhihata



Mbirhihata swilo leswi landzelaka kutani u tatisa nhlamulo.

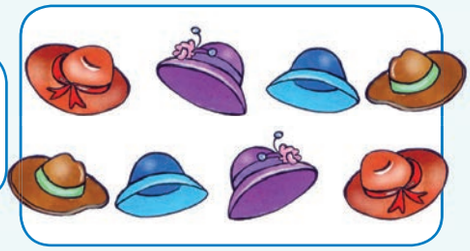


I loko yi mbirhihatiwile i ☐





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 =

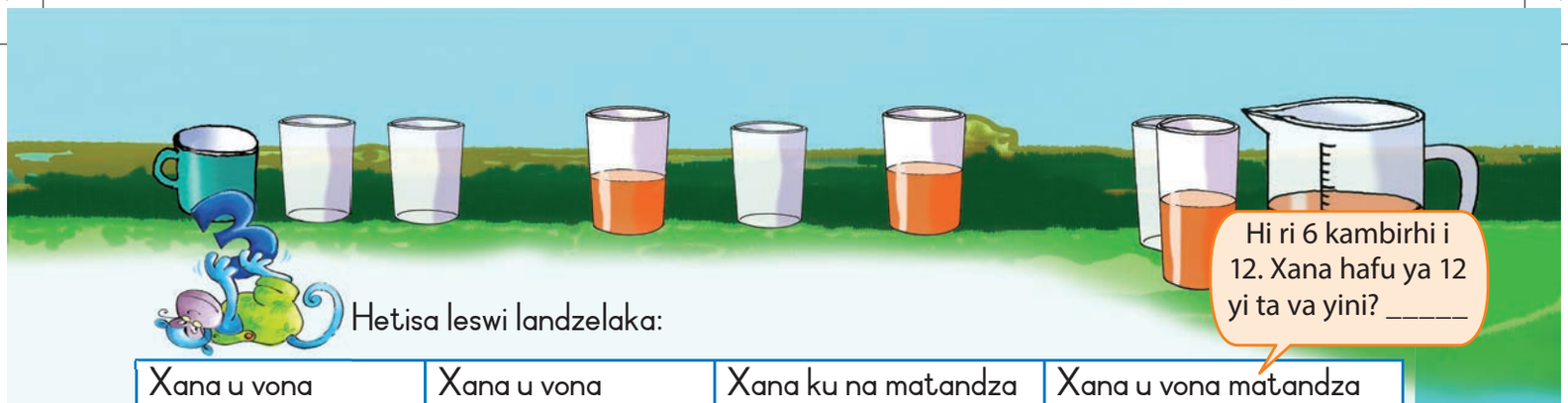


5 + 5 =
kumbe
5 kambirhi =

2 + 2 =
kumbe
2 kambirhi =

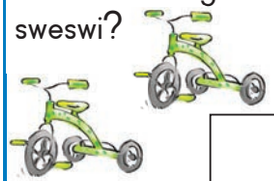
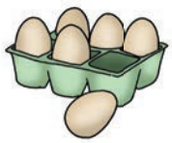
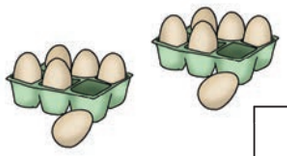


0 1 2 3 4 5 6 7 8 9 10



Hi ri 6 kambirhi i 12. Xana hafu ya 12 yi ta va yini? _____

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 mbirhihata.

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

Mbirhihata tinomboro.

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

Hetisa leswi landzelaka:

Xana ku na masiku mangani evhikini?

S	M	T	W	T	F	S

Xana ku na masiku mangani eka mavhiki mambirhi?

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

Hi ri 7 kambirhi i 14.
Xana hafu ya 14 yi ta va yini?

Xana u vona minkondzo yingani?



Xana u vona minkondzo yingani sweswi?



Hi ri 2 kambirhi i 4.
Xana hafu ya 4 yi ta va yini?

Hetisa leswi landzelaka:

2 + 2 + 1 =	5	kumbe	2 kambirhi + 1 = 5
4 + 4 + 1 =		kumbe	
7 + 7 + 1 =		kumbe	

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



Siku: _____

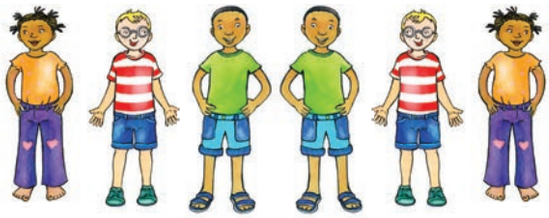
Tihafu



Bana nkhwati eka hafu ya vana kutani u tsala nhlamulo.



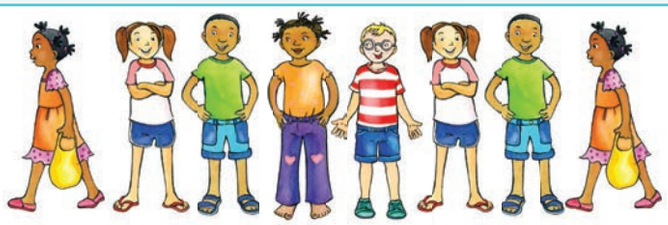
Hafu ya 4 i _____



Hafu ya 6 i _____



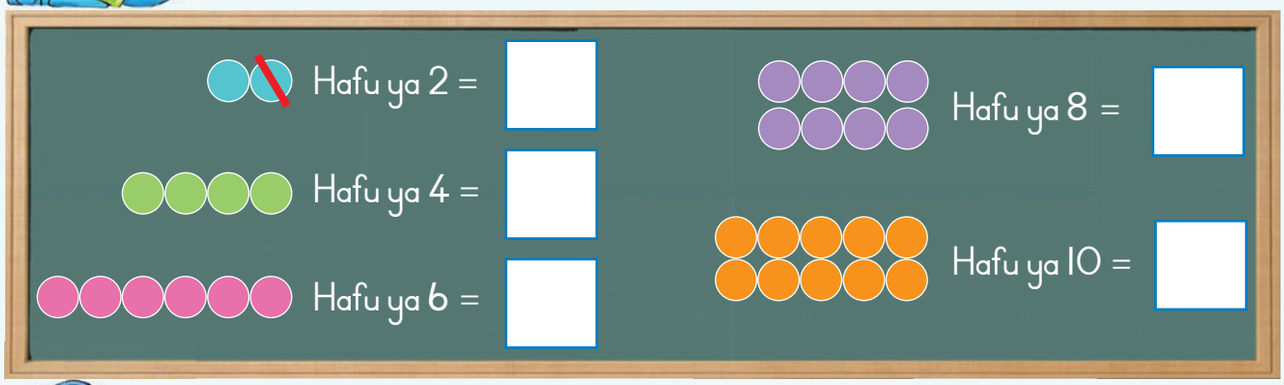
Hafu ya 2 i _____



Hafu ya 8 i _____

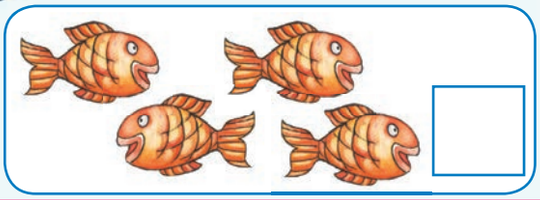


Bana nkhwati eka hafu kutani u tatisa nhlamulo.



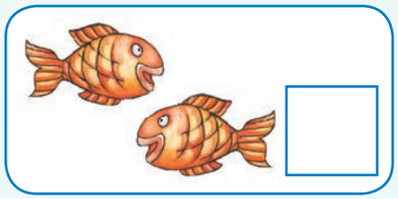


Ku na tinhlampfi tingani?

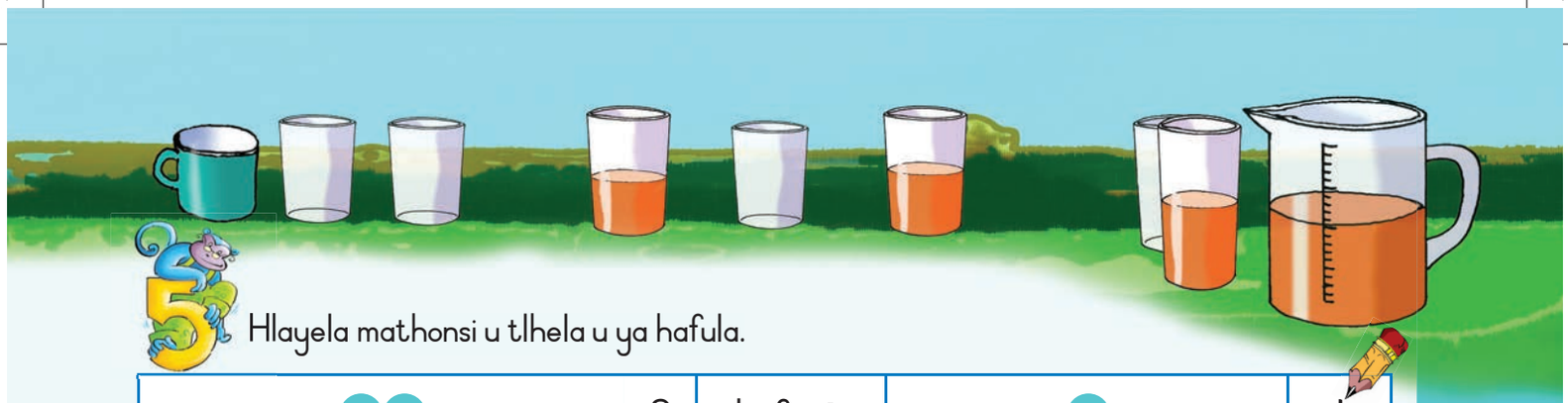




I yini hafu ya tinhlampfi?



0 1 2 3 4 5 6 7 8 9 10



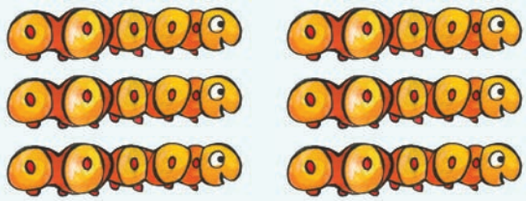
5 Hlayela mathonsi u tlhela u ya hafula.

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

6 Hafula tinomboro.

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

7 Xana ku na swivungu swingani?



☐

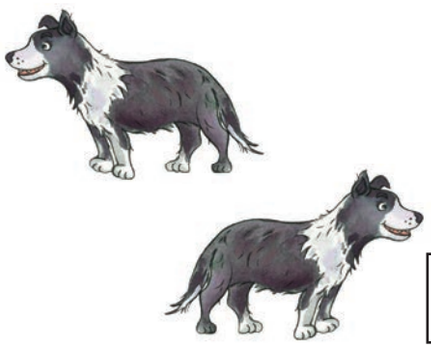
Hafu ya swivungu i:



☐

8 Hlamula leswi landzelaka:

Xana ku na milenge yingani?



☐

Ku na milenge yingani sweswi?



Hi ri hafu ya 8 i ☐

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

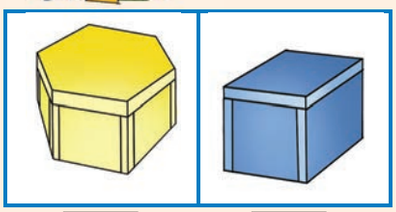


Siku:

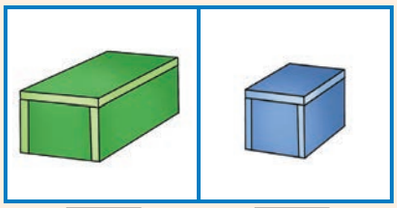
Minchumu ya 3 wa matlhelo



Gwajula nchumu lowutsongo.

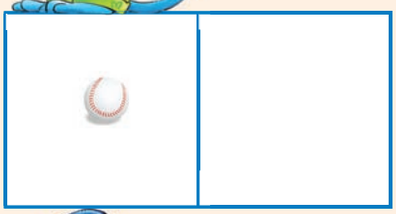


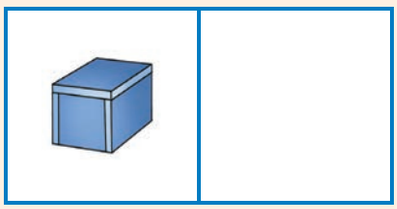






Dirowa nchumu lowukulu eka tlhelo ra xinene ra xifaniso xin'wana na xin'wana.

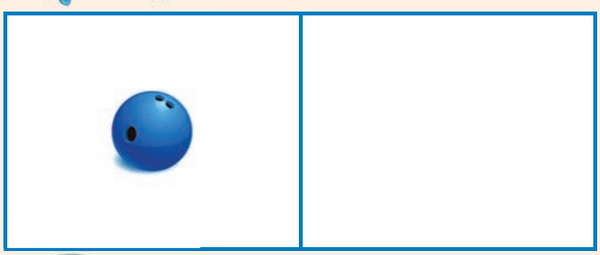




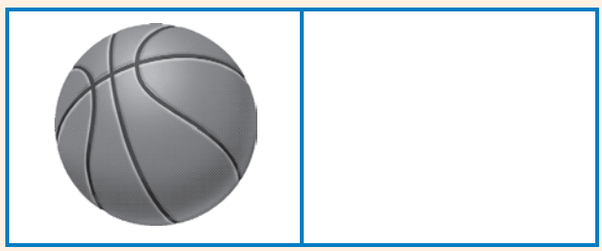




Dirowa bolo leyi nga yikulu ku tlula bolo ya wasi.

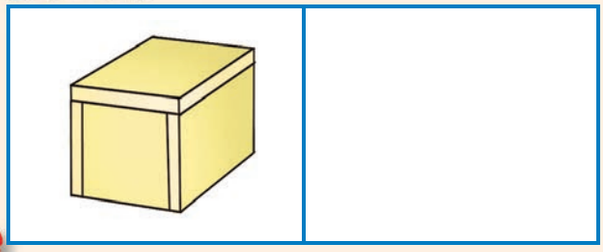


Dirowa bolo leyi nga yitsongo eka bolo ya mpunga.

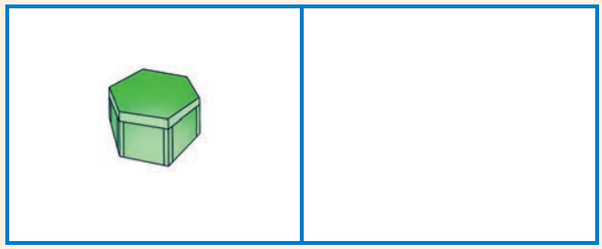


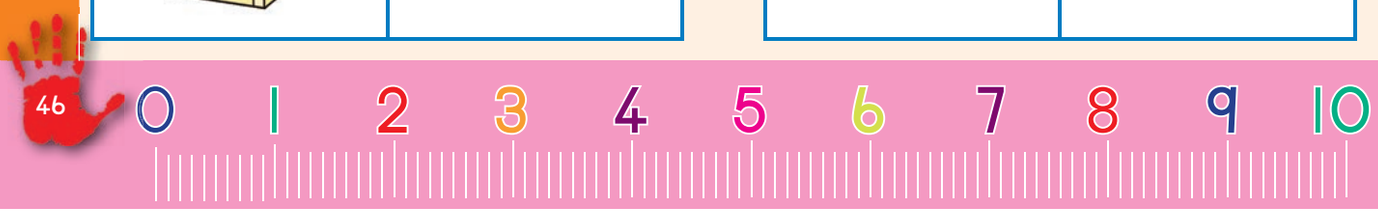


Dirowa bokisi leri nga ritsongo eka bokisi ra xitshopana.



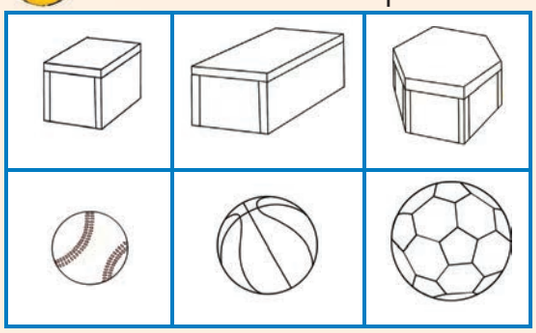
Dirowa bokisi leri nga rikulu eka bokisi ra rihlaza.



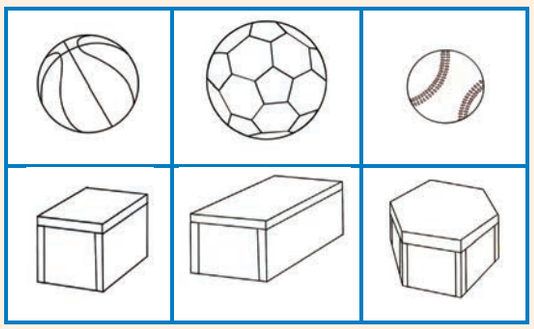




Khalara bokisi leritsongo swinene hi muhlovo wa wasi u tlhela u khalara bolo leyitsongo swinene hi muhlovo wa xitshopana.



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:



Siku:

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

0 1 2 3 4 5 6 7 8 9 10



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:

11 12 13 14 15 16 17 18 19 20



Siku:

Tipatironi ta jometiri

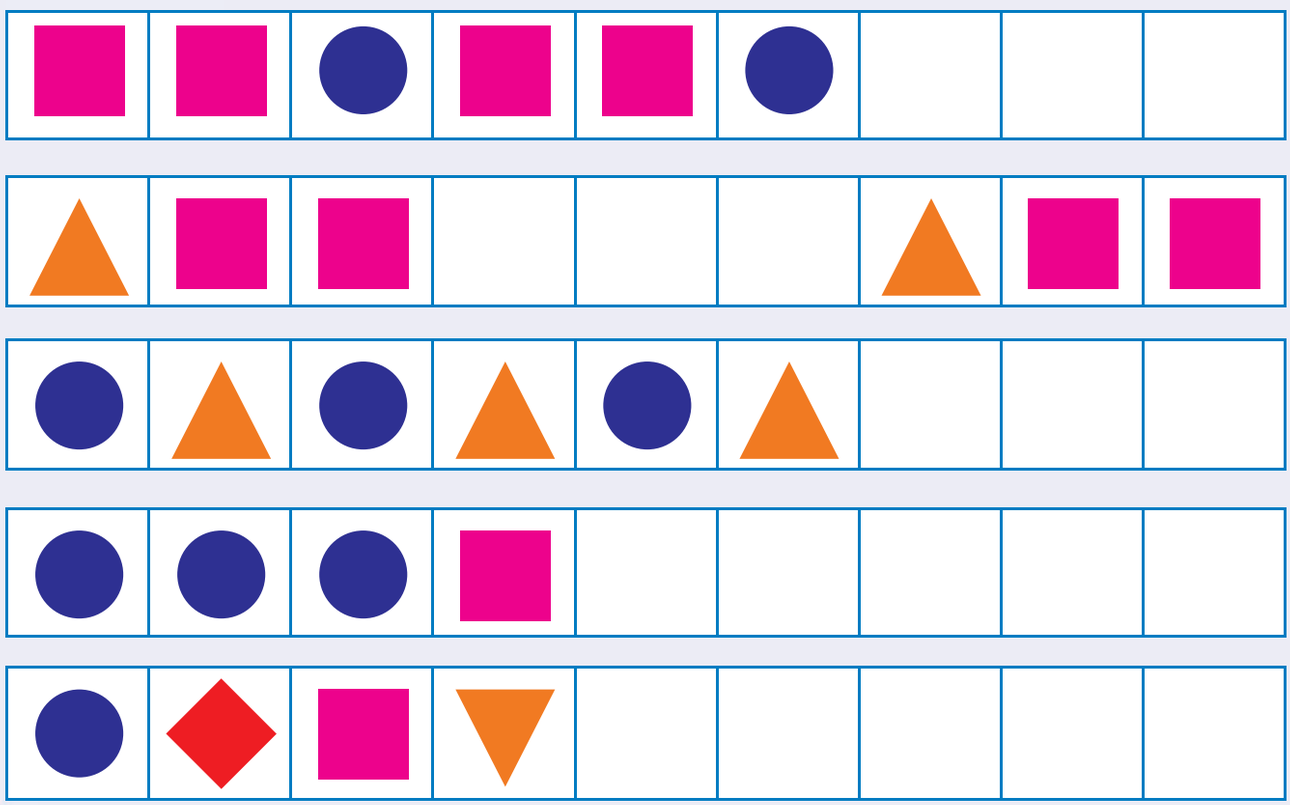
Mpfuxeto:

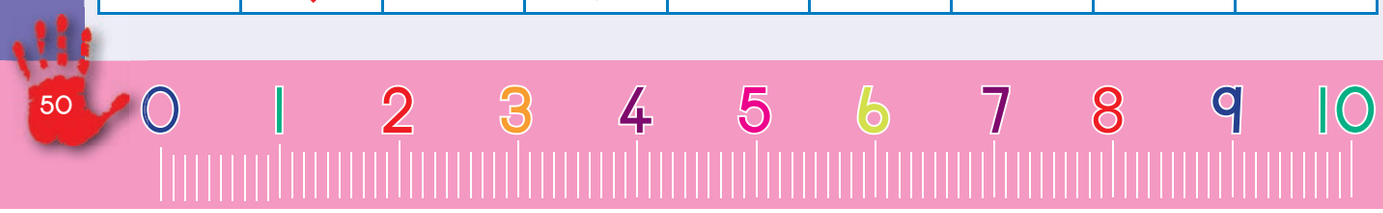
Dirowa leswi landzelaka:

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



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 =

0 1 2 3 4 5 6 7 8 9 10



Dirowa swirhendzevutana eka leswi landzelaka ku endla:

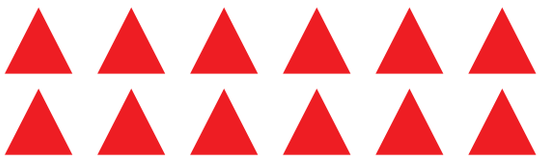
4 wa mintlawa ya 2



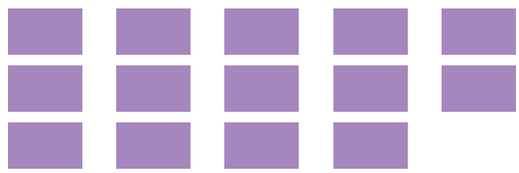
5 wa mintlawa ya 2



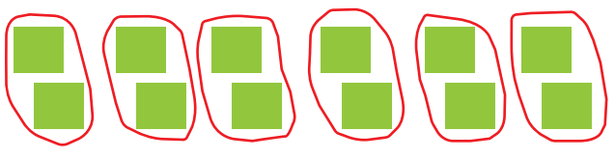
6 wa mintlawa ya 2

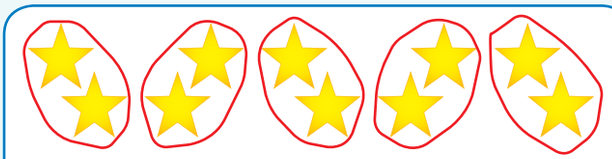


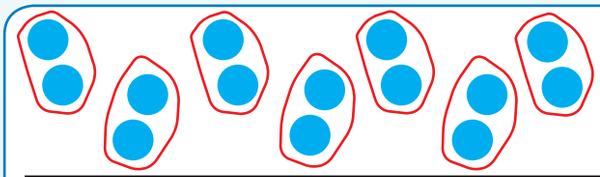
7 wa mintlawa ya 2

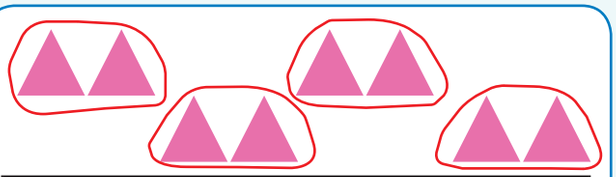


Tsala xivulwa xa tinomboro xa leswi landzelaka.









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

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

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



91

Siku:

Ku hlanganisa ko vuyelela mbirhi ku fika eka 15



Xana ku na milenge yingani?



U yi hlayele hi ndlela yihi?



Dirowa swivumbeko ku kombisa leswi landzelaka:

2 + 2 + 2 + 2 + 2 = ☐



2 + 2 + 2 + 2 + 2 + 2 + 2 = ☐

2 + 2 + 2 + 2 = ☐

2 + 2 + 2 + 2 + 2 + 2 = ☐

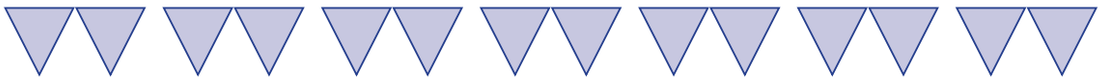




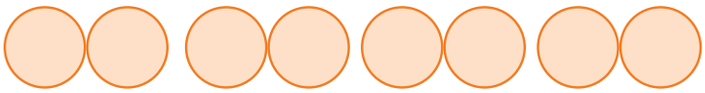
Tsala swivulwa swa tinomboro swa leswi landzelaka.



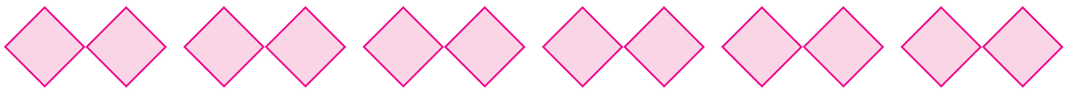
2 + 2 + 2 + 2 + 2 = ☐



☐

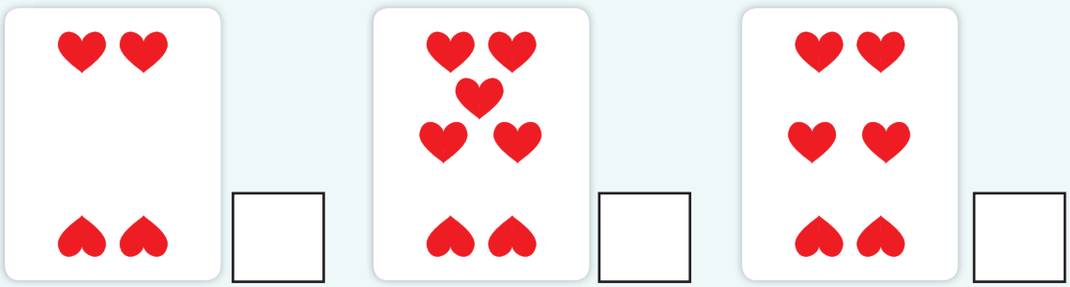


☐



☐

Bana xirhendzevutana u tlhela u hlayela leswaku i mintlawa 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 mintlawa ya mbirhi.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

92

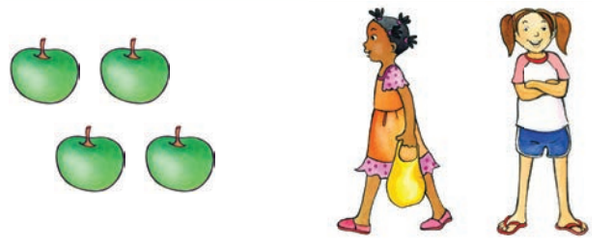
Siku:

Vumbirhi ku fika eka 15

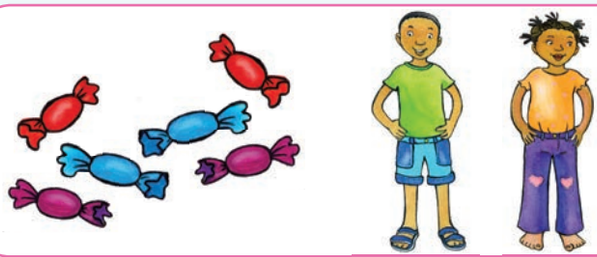
Tatisa tinomboro leti siyiweke.

1		3		5		7		9	
11		13		15					

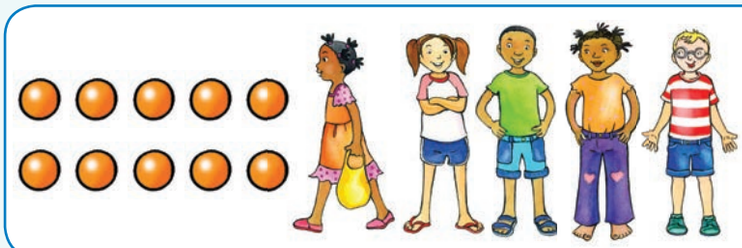
Endla mintlawa ya mbirhi.
Dirowa xirhendzevutana eka ntlawa wun'wana na wun'wana wa mbirhi.



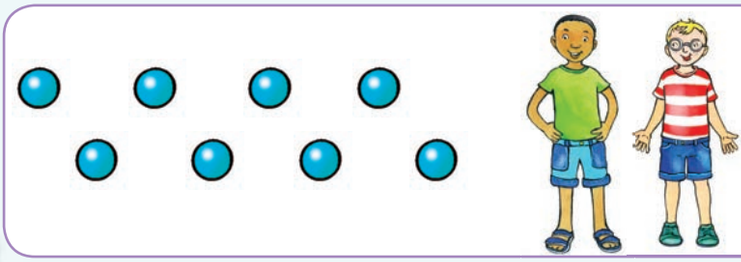
Xana ku na mintlawa yingani ya maapula? ☐
N'wana un'wana na un'wana u ta kuma maapula mangani? ☐



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? ☐

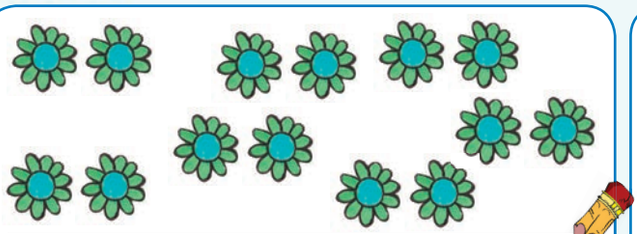
0 1 2 3 4 5 6 7 8 9 10



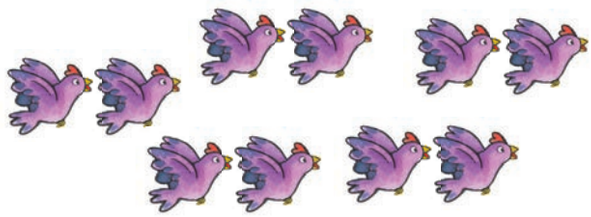
Tatisa tinomboro leti siyiweke.

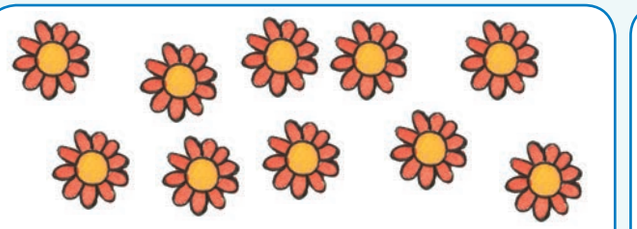
1	2	3	4		6	7	
2	4		8	10		14	16
0	3	6		12		18	21

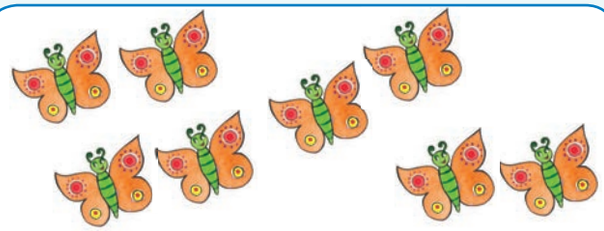
Tsala xivulwa xa tinomboro u tirhisa swimbirhi-mbirhi.



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







Khakhuleta leswi landzelaka:

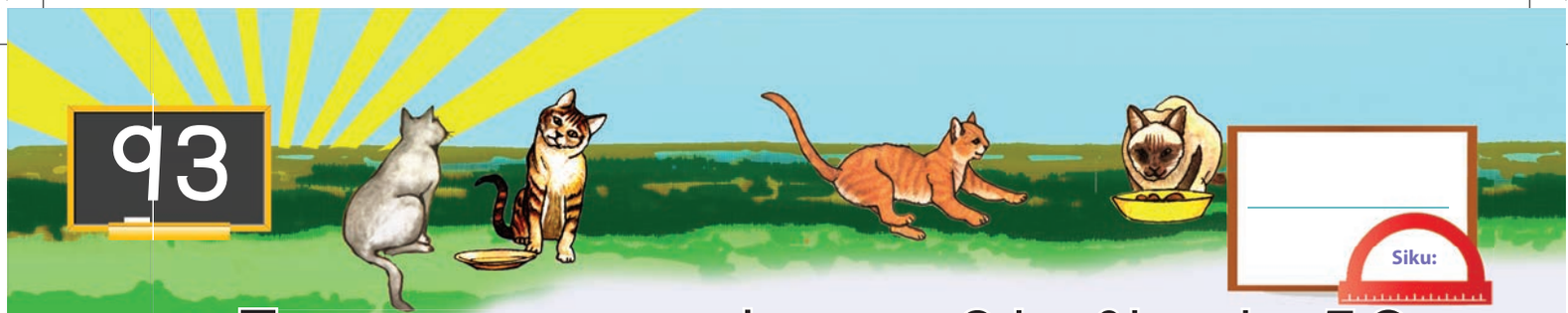
2 + 2 + 2 =	
2 + 2 + 2 + 2 =	
2 + 2 + 2 + 2 + 2 =	
2 + 2 + 2 + 2 + 2 + 2 =	
2 + 2 + 2 + 2 + 2 + 2 + 2 =	

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



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



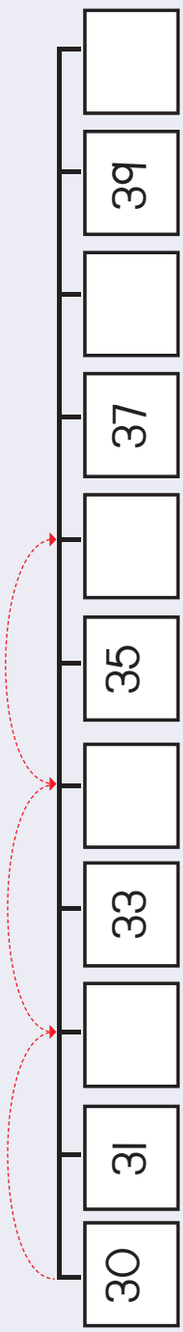
93

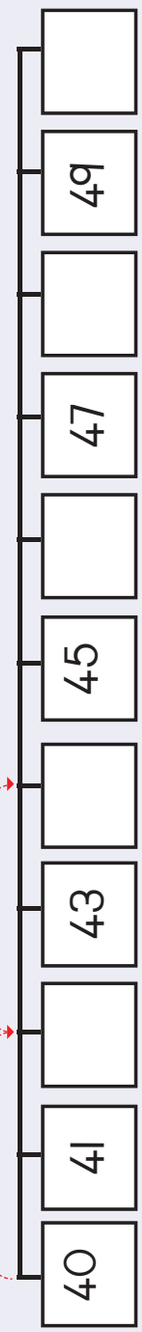
Siku:

Tipatironi ta tinomboro ta 2 ku fika eka 50



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







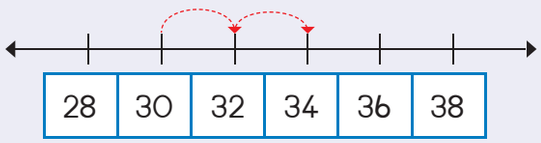
Hetisa patironi hi ku khalara tinomboro leti faneleke.

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

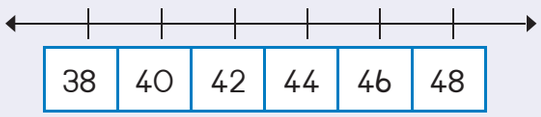


Dirowa tihupu ku kombisa leswi landzelaka:

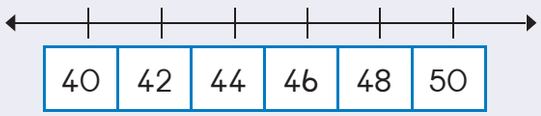
30, 32, 34

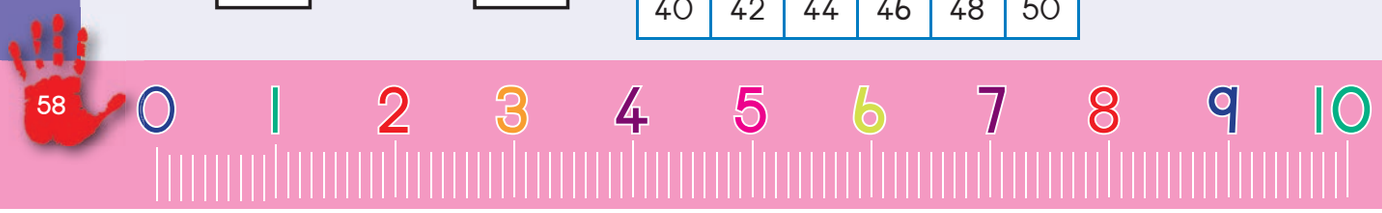


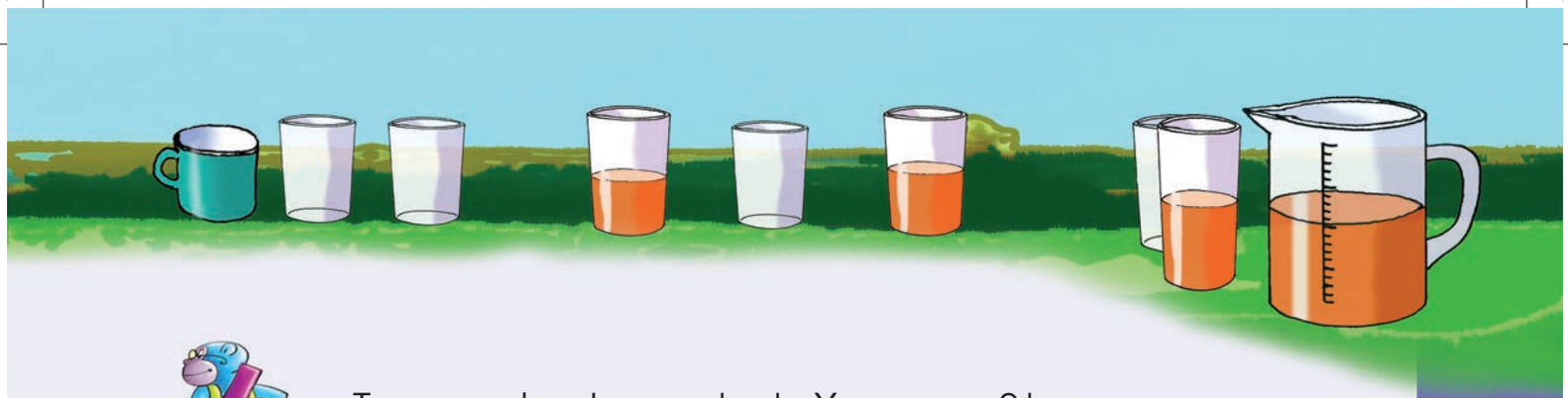
40, 42, 44



46, 48, 50

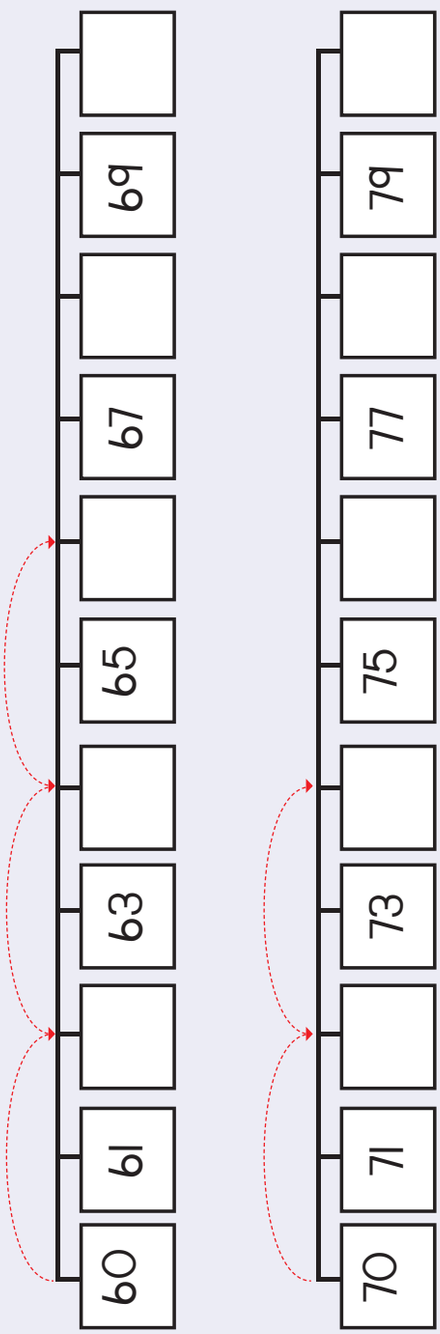








Tsema tinomboro leti siyiweke eka Xitsemiwa xa 2 kutani u ti namarheta eka ndzhati wa mintsengo. Hetisa tihupu.





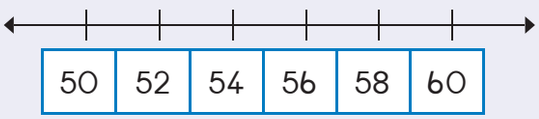
Hetisa patironi hi ku khalara tinomboro leti faneleke.

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

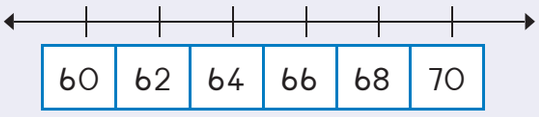


Dirowa tihupu ku kombisa leswi landzelaka:

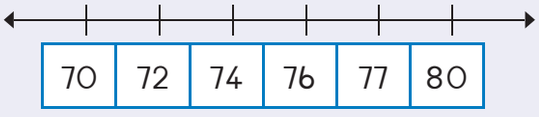
54, 56, 58



64, 66, 68



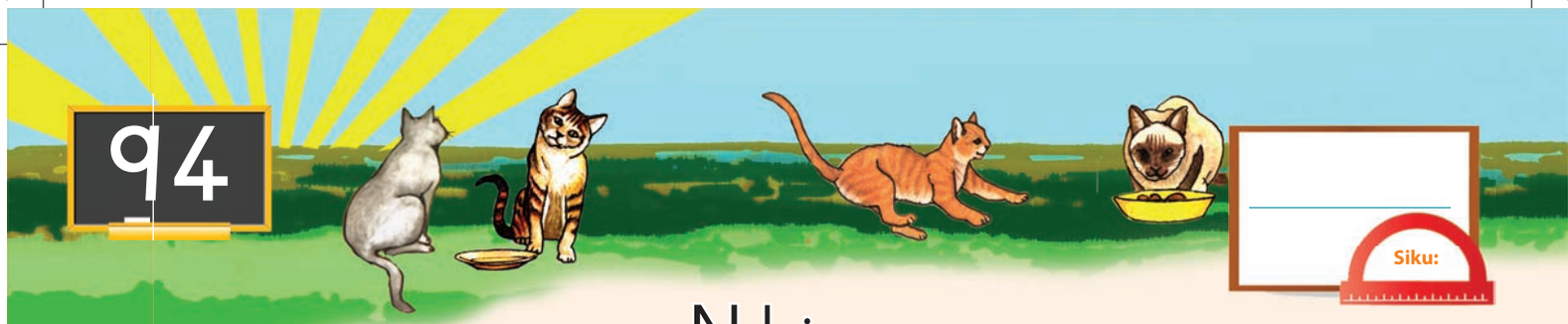
72, 74, 76





Teacher:
Sign:
Date:

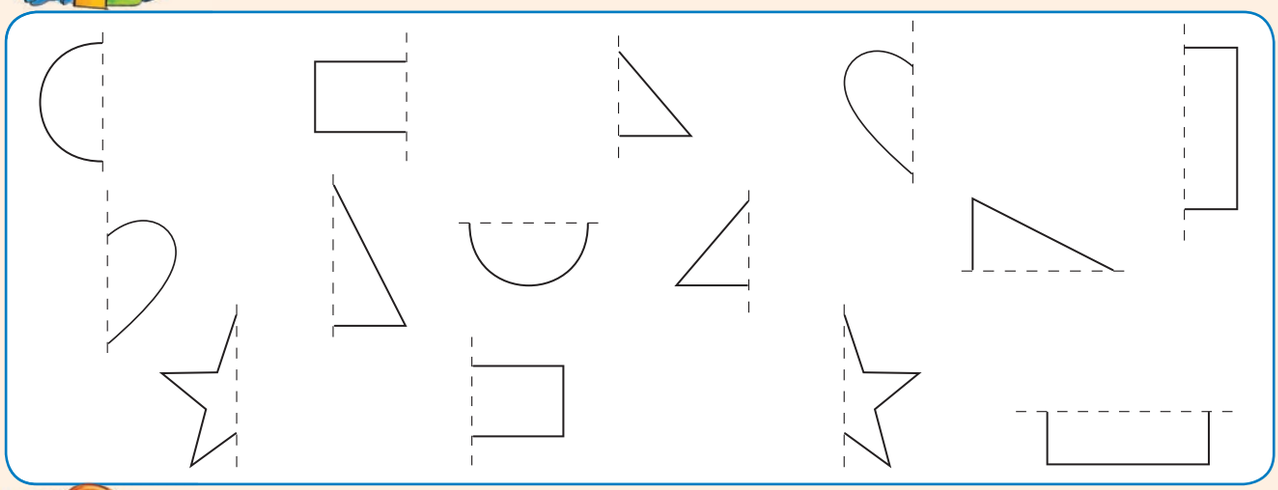
11 12 13 14 15 16 17 18 19 20



Ndzingano

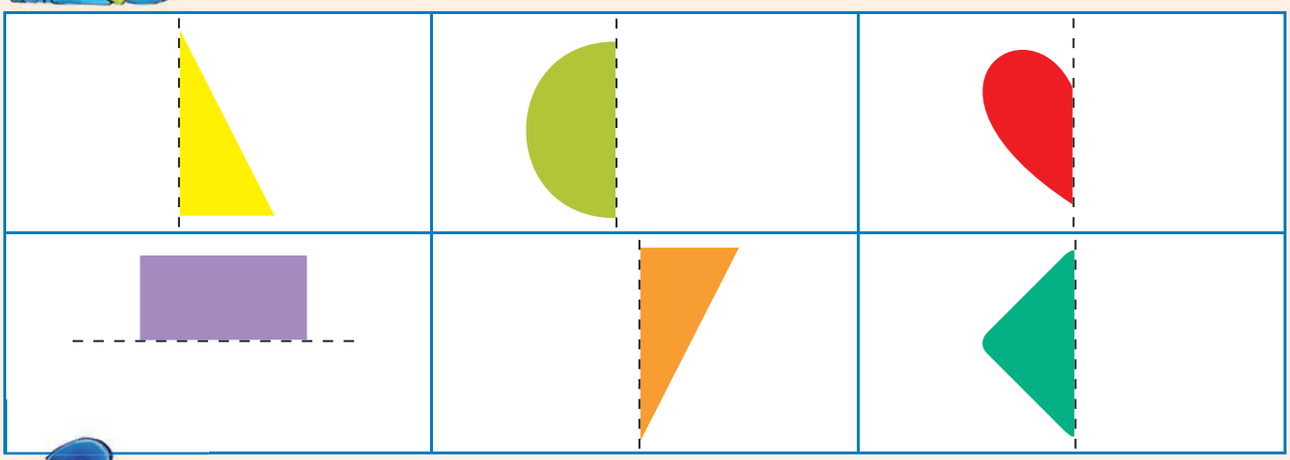


Khalara swiphemu swimbirhi swa swivumbeko leswi vumbaka xivumbeko xin'we.



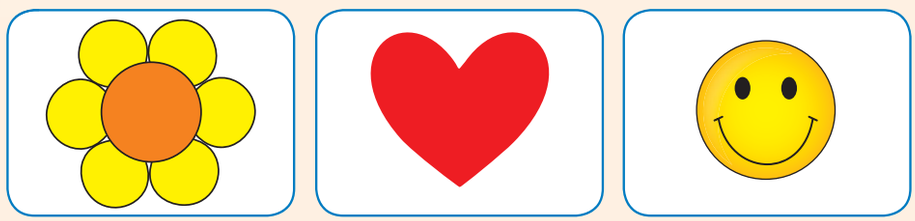


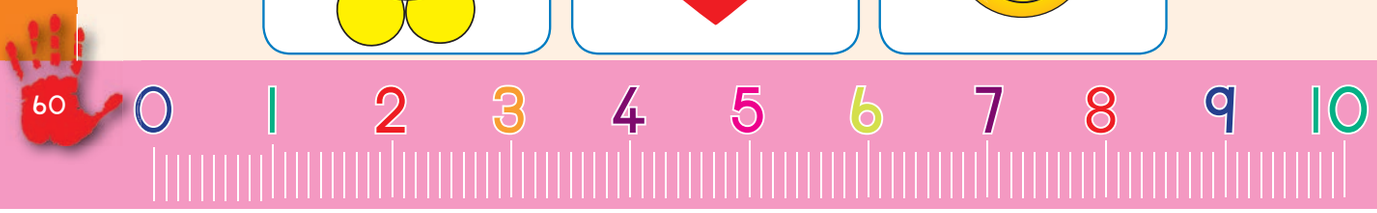
Dirowa hafu yin'wana u tlhela u yi khalara.

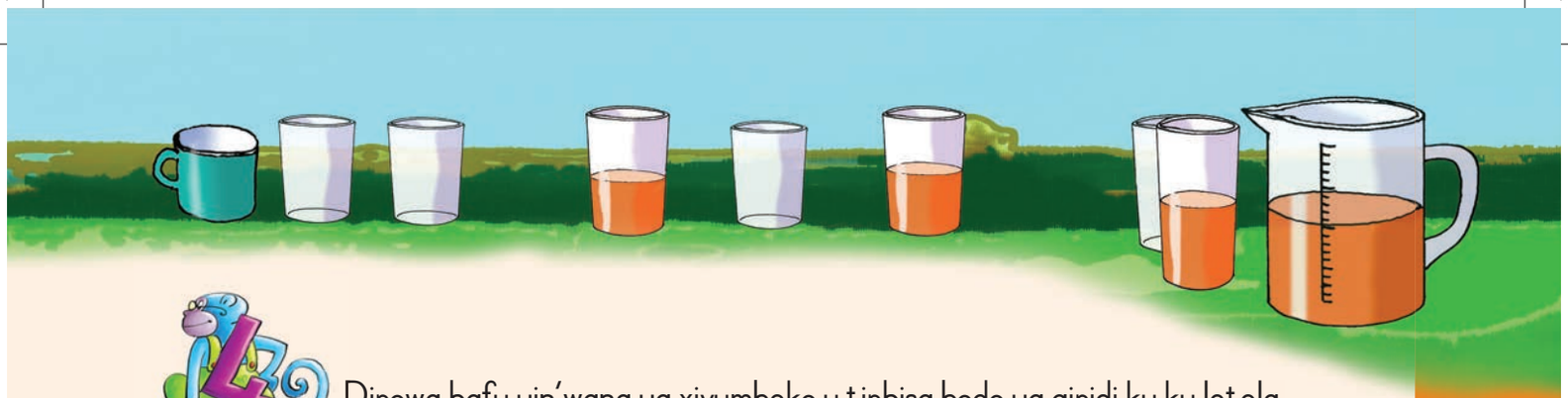




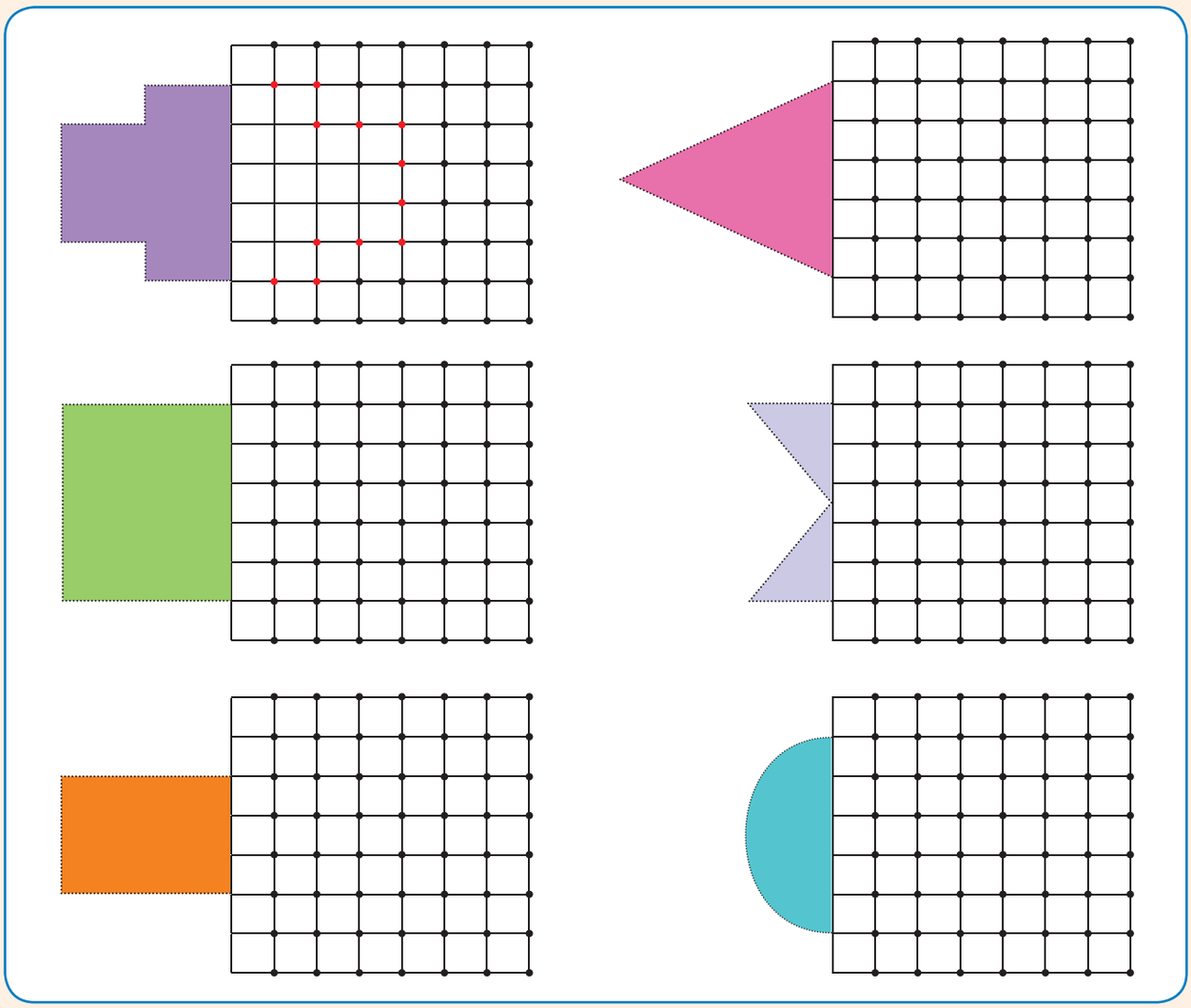
Dirowa ntila wo avanyisa swifaniso leswi landzelaka eka swiphemu swimbirhi leswaku matlhelo hinkwawo ya languteka hi ndlela leyi fanaka.



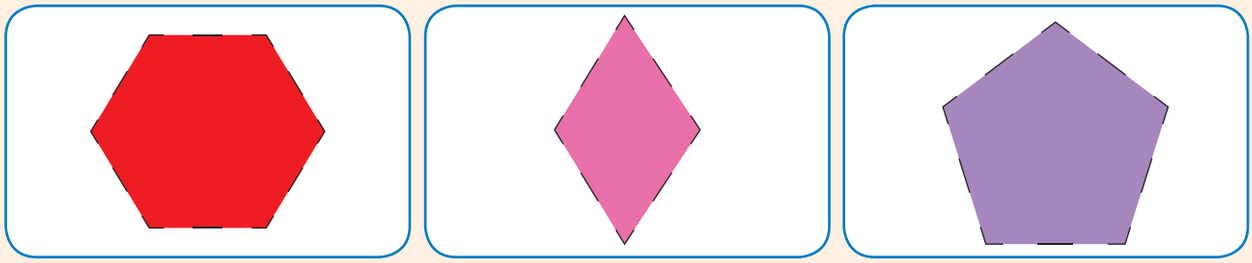




Dirowa hafu yin'wana ya xivumbeko u tirhisa bodo ya giridi ku ku letela.



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



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

95



Siku:

Tinomboro na xiyimela-nkoka

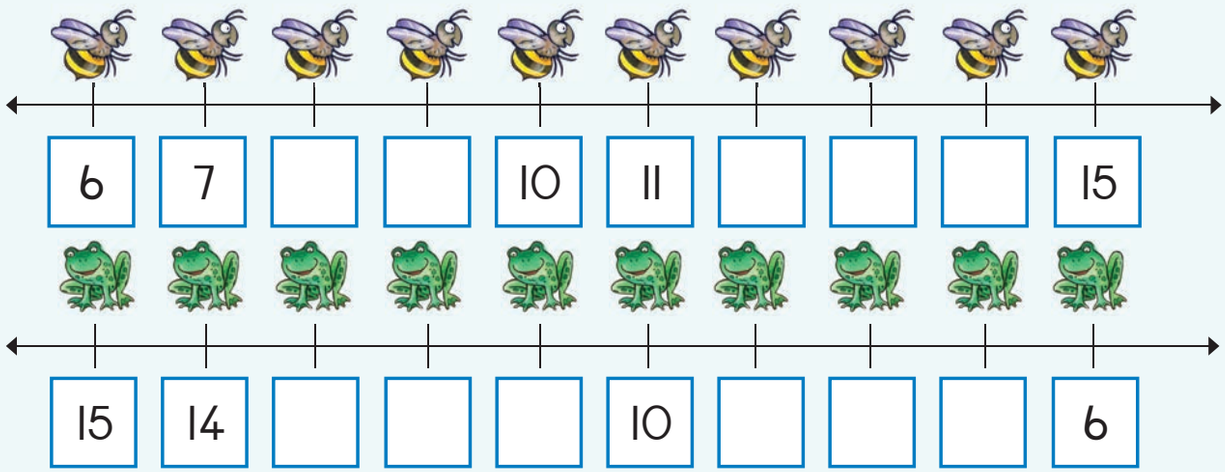


Tatisa tinomboro leti siyiweke.

10	11				15
9	10				



Tatisa tinomboro leti siyiweke.



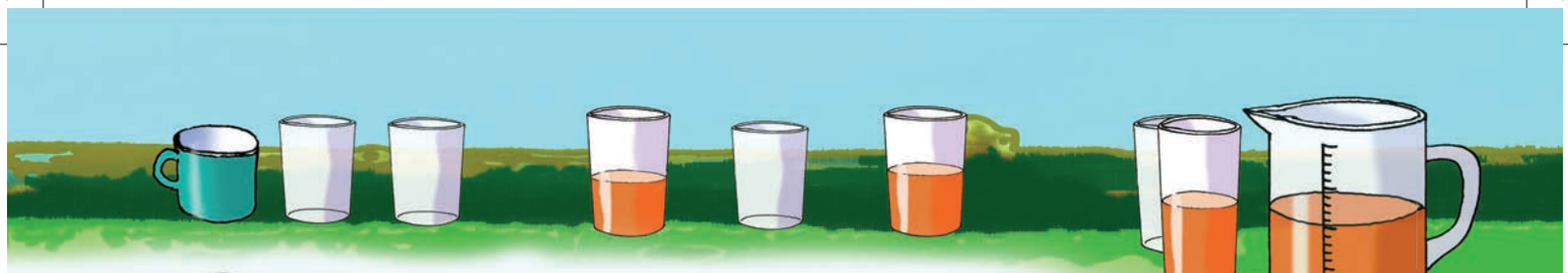


Tatisa nhlamulo.

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 khalara 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



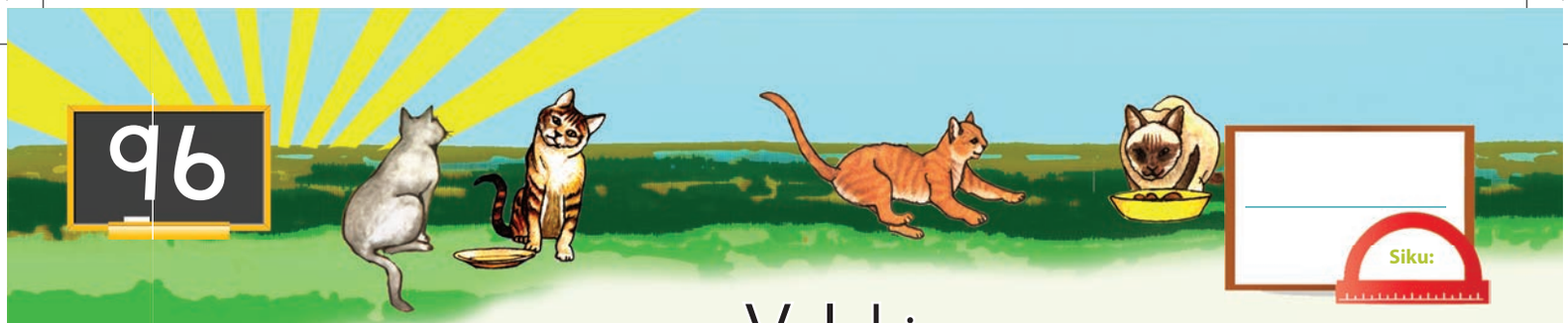
1	18	17	21	20	16
	6	19	10	4	
	9	13		15	12	2
	14	11	5	8		

Kombisa khume na mune eka ndzhati wa mintsengo.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

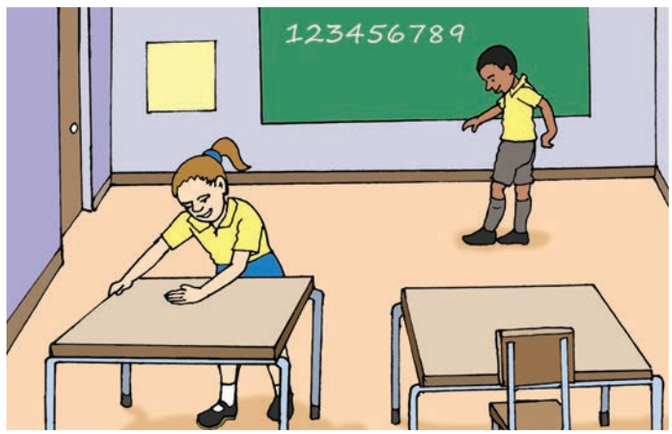


Vulehi



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?

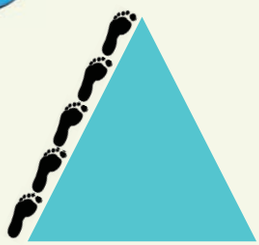


Vulehi byi ringana na _____ wa swandla.

Vuanami byi ringana na _____ wa swandla.



I minkondzo yingani eka tlhelo rin'we?









Tatisa nhlamulo.



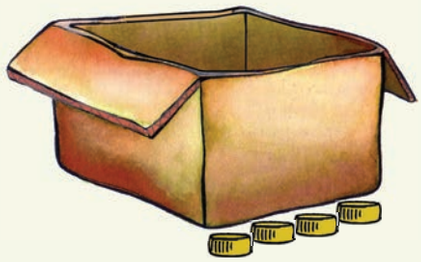


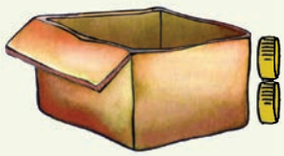
Vulehi i _____ wa swandla.





Hi byihi vulehi na vuanami bya bokisi leri?



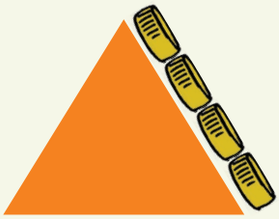


Vulehi i _____ wa swipfalo swa mabodhlela hi ku leha.

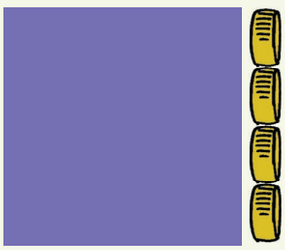
Vuanami i _____ wa swipfalo swa mabodhlela hi ku leha.

Xana tlhelo ri lehile ku ringana swipfalo swa mabodhlela swingani?









Teacher:
Sign:
Date:

97

Siku:

Nomboro ya 16

Mpfuxeto:

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

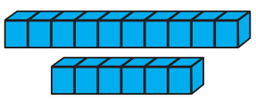
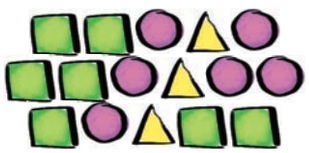
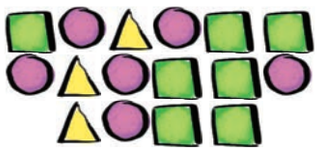
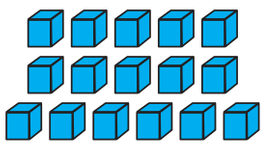
7 nkombo



Yelanisa swifaniso.



Landzelerisa tinomboro.

	
	16
10 6	
16	
	10 6

16 16 16 16

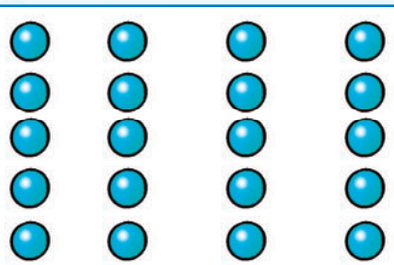
khumentsevu

16 16 16 16

khumentsevu



Bana xirhendzevutana eka 16 wa vuhlalu.



Xana ku sale vuhlalu byingani? ___

0 1 2 3 4 5 6 7 8 9 10



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.





Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Siku:

Nomboro ya 17

Mpfuxeto:

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

8 nhungu





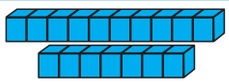
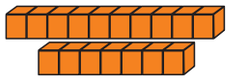
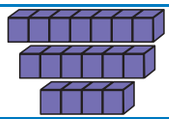
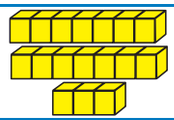
4 Dirowa 17 wa minchumu.

Sweswi yi dirowe hi ndlela yo hambana.

5 Hi yihi nomboro leyi landzelaka?

16	17	
24	25	
17	18	

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

	17	
		
		khumenkombo
		

7

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?	

8 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

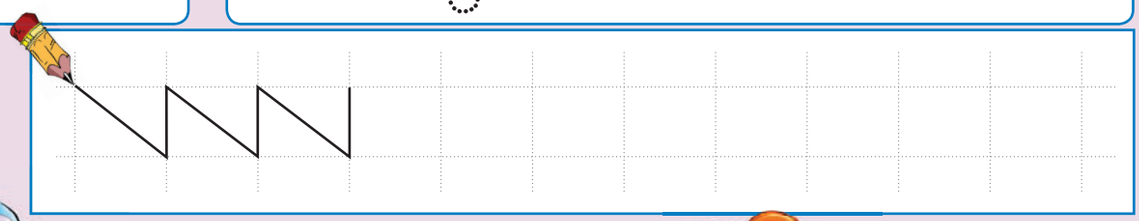


Nomboro ya 18

Mpfuxeto:

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

q | nhungu

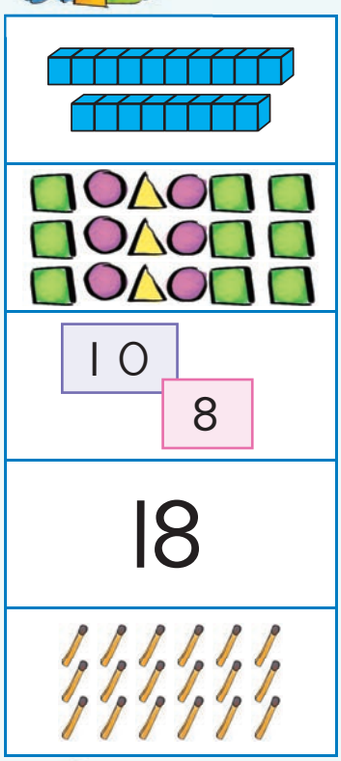


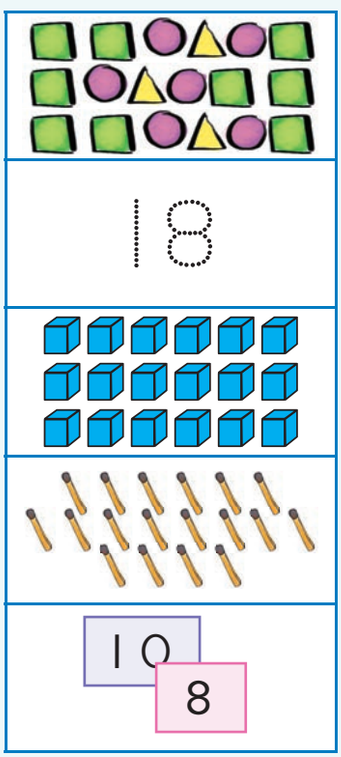


Yelanisa swifaniso.



Landzelerisa tinomboro.



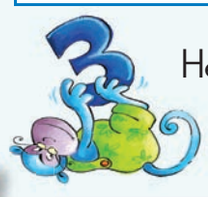


18 18 18 18

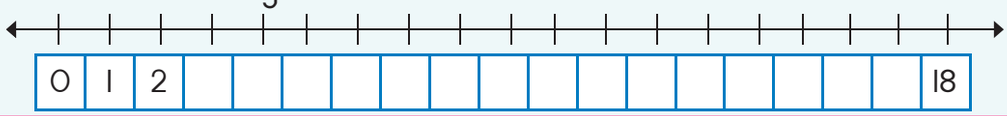
khumenhungu

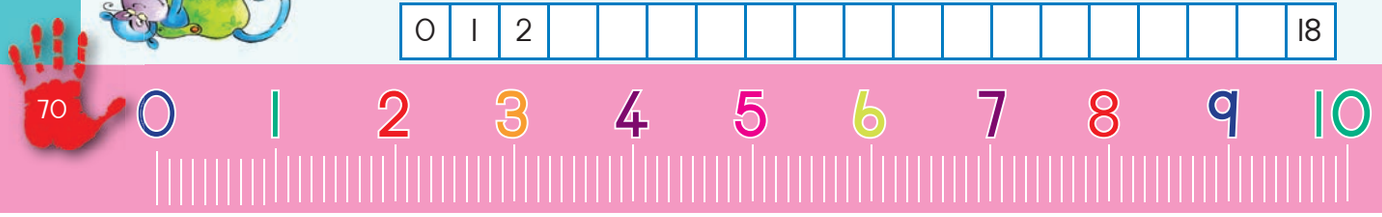
18 18 18 18

khumenhungu



Hetisa ndzhati wa mintsengo.







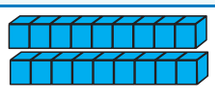
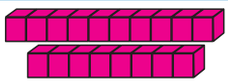
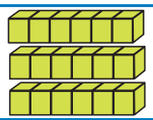
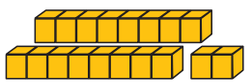
4 Dirowa 18 wa minchumu.

Sweswi yi dirowe hi ndlela yo hambana.

5 Hi yihi nomboro leyi taka endzhaku?

8	9	
33	34	
0	1	

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

	18	
		
		khumenhungu
		

7

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?	

8 Tatisa tinomboro leti siyiweke.

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



Nomboro ya 19

Mpfuxeto:

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

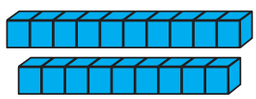
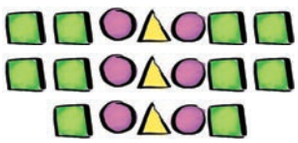
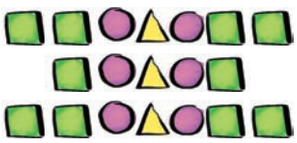
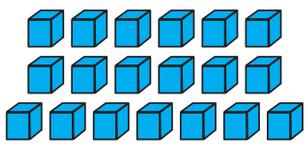
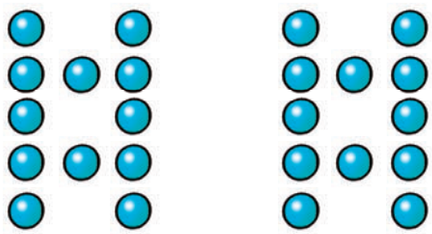
10 khume



Yelanisa swifaniso.



Landzelerisa tinomboro.

		19 19 19 19 khumekaye
	19	19 19 19 19 khumekaye
10 9		
19		Bana xirhendzevutana eka 19 wa vuhlalu ntsena.
	10 9	 Xana ku sale vuhlalu byingani? ___

0 1 2 3 4 5 6 7 8 9 10



4 Sweswi yi dirowe hi ndlela yo hambana.

Sweswi yi dirowe hi ndlela yo hambana.

5 Hi yihi nomboro leyi taka exikarhi?

14		16
35		37
8		10

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

	19	
		khumekaye

7

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?	

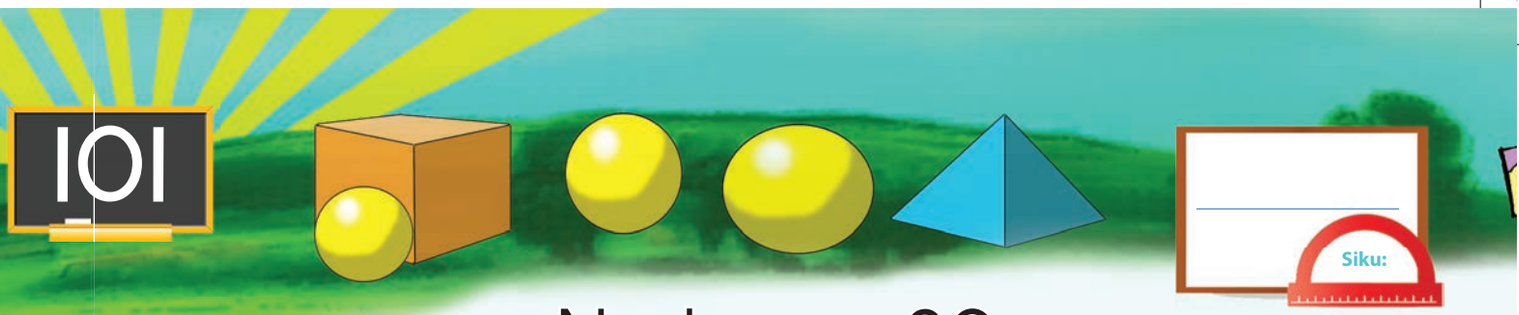
8 Tatisa tinomboro leti siyiweke.

Tinomboro leti ti vitaniwa tinhlayo-ndzingano.

1		3		5		7		9	
11		13		15		17		19	

Teacher:
Sign:
Date:

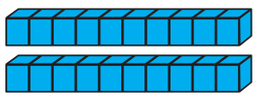
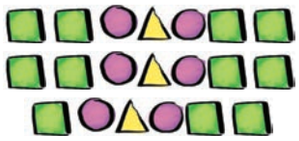
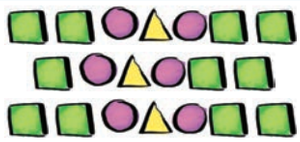
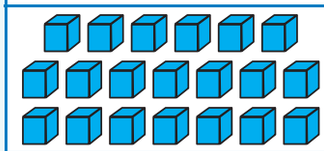
11 12 13 14 15 16 17 18 19 20



Nomboro ya 20



Yelanisa swifaniso.

	
	20
10 10	
20	
	10 10



Landzelerisa tinomboro.

20 20 20 20

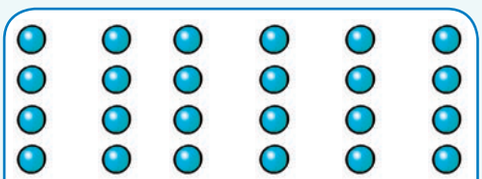
makumembirhi

20 20 20 20

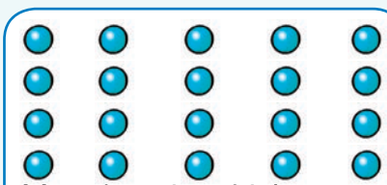
makumembirhi



Bana xirhendzevutana eka 20 wa vuhlalu ntsena.



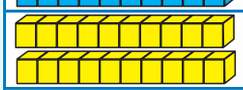
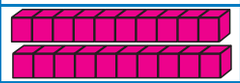
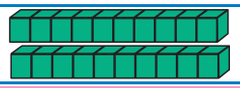
Xana ku sale vuhlalu byingani? _____



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	mune
1	nkombo
2	kaye
3	nharhu
4	khumen'we
5	khumembirhi
6	n'we
7	mbirhi
8	nhungu
9	ziro
10	ntlhanu
11	ntsevu
12	khumenharhu
13	khume
14	khumemune



Tatisa tinomboro leti siyiweke.

Emahlweni		Endzhaku
16	17	
	12	
	14	
	9	10
	6	



Tirhisa rito ra yitsongo na yikulu ku hetisa leswi landzelaka.

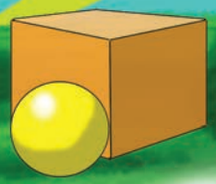
35 i _____ eka 38

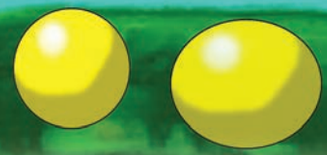
79 i _____ eka 65

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

102





Siku:

Ku hlanganisa



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

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

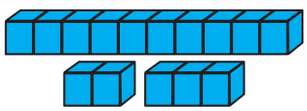


Hlanganisa leswi landzelaka. Rhanga hi ku tsala nomboro leyikulu.

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



Hlanganisa tibuloko leti landzelaka.

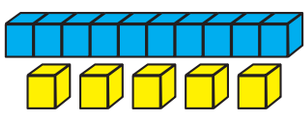


10 + 2 + 3 = 15

10 + 5 = 15



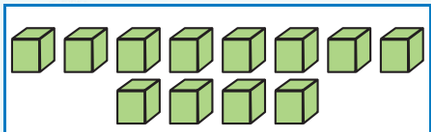
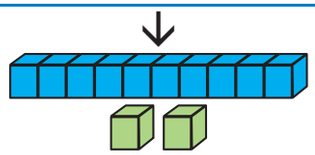
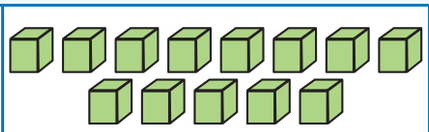
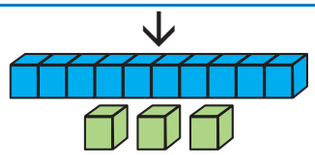
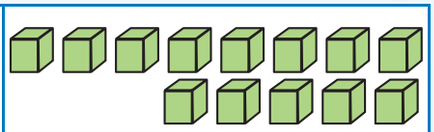
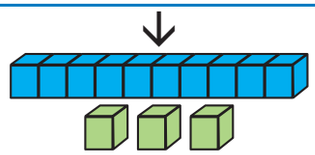
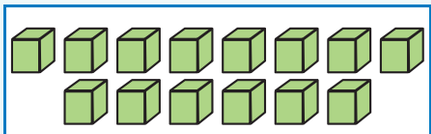
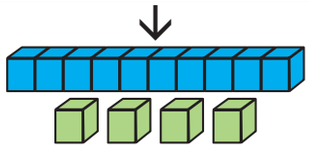
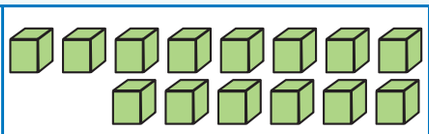
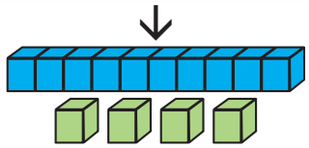
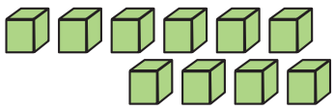
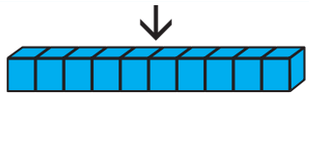
Tsala xivulwa xa tinomboro xa leswi landzelaka:



0 1 2 3 4 5 6 7 8 9 10



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:

11 12 13 14 15 16 17 18 19 20

103

Siku:

Ku susa

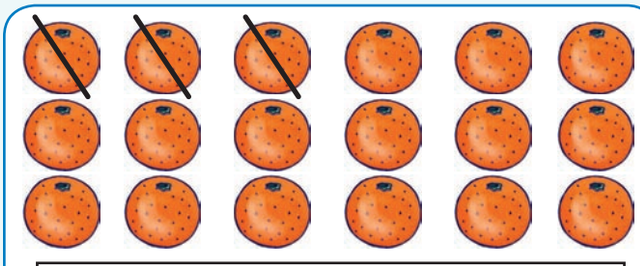


Khakhuleta.

17	− 4	
19		
14		
12		

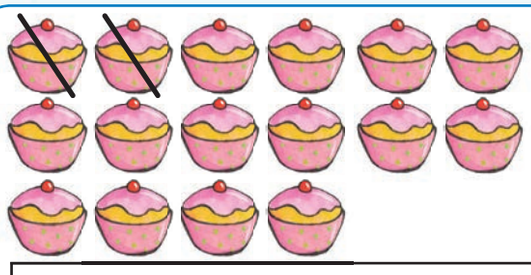


Tsala xivulwa xa tinomboro.





Tsala xivulwa xa tinomboro.



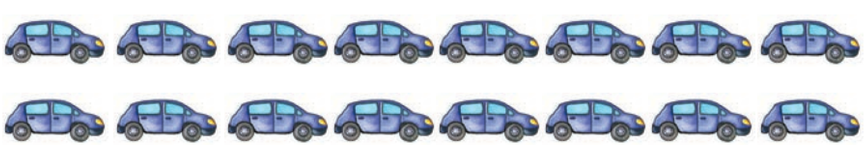


Khakhuleta.

18	− 4	
7		
15		
9		



Hetisa tinhlayo hi ku tirhisa swifaniso.



16 − ☐ = 11

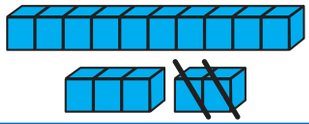
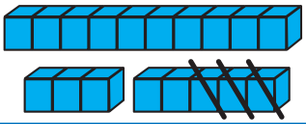
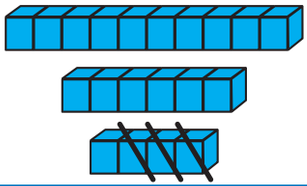


10 + ☐ = ☐





Susa tibuloko.

		
(10 + 3) − 2 =		
13 − 2 =		



Khakhuleta leswi landzelaka:

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



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 ☐



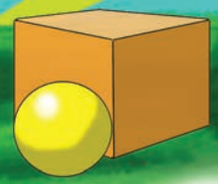
Hlamula leswi landzelaka:

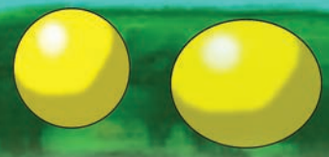
9 + 9 − 1 =		kumbe	Mbirhihata 9 − 1 =	
		kumbe	Mbirhihata 5 − 1 =	
4 + 4 − 1 =		kumbe		

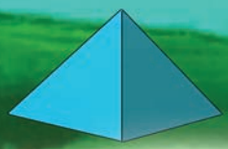


Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20





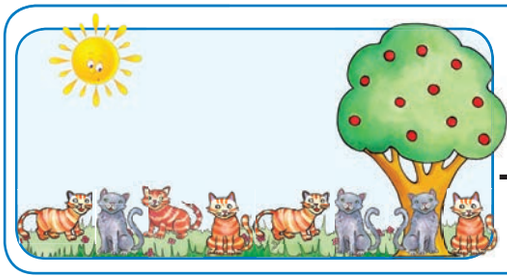


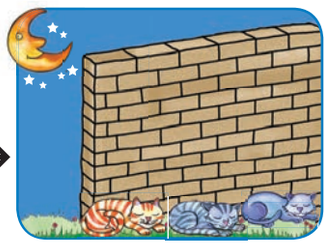
Siku:

Ku hlanganisa no susa

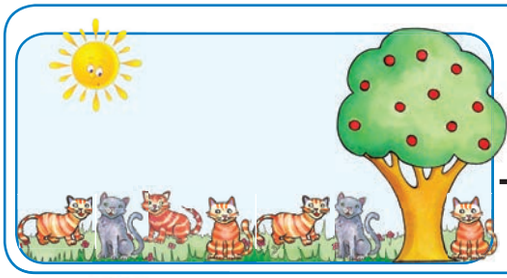


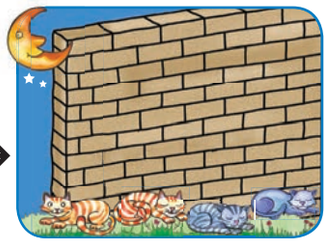
Hlayela leswaku i swimanga swingani leswi orheleke masana.
Nivusiku, swin'wana swi etlela endzhaku ka khumbi. Kuma leswaku i swingani leswi etlelaka endzhaku ka khumbi kutani u tsala nhlayo ya swona.





3 + ☐ = 8





4 + ☐ = ☐



Ololoxa leswi landzelaka.
U nga dirowa xifaniso xo kota ku ku pfuna.

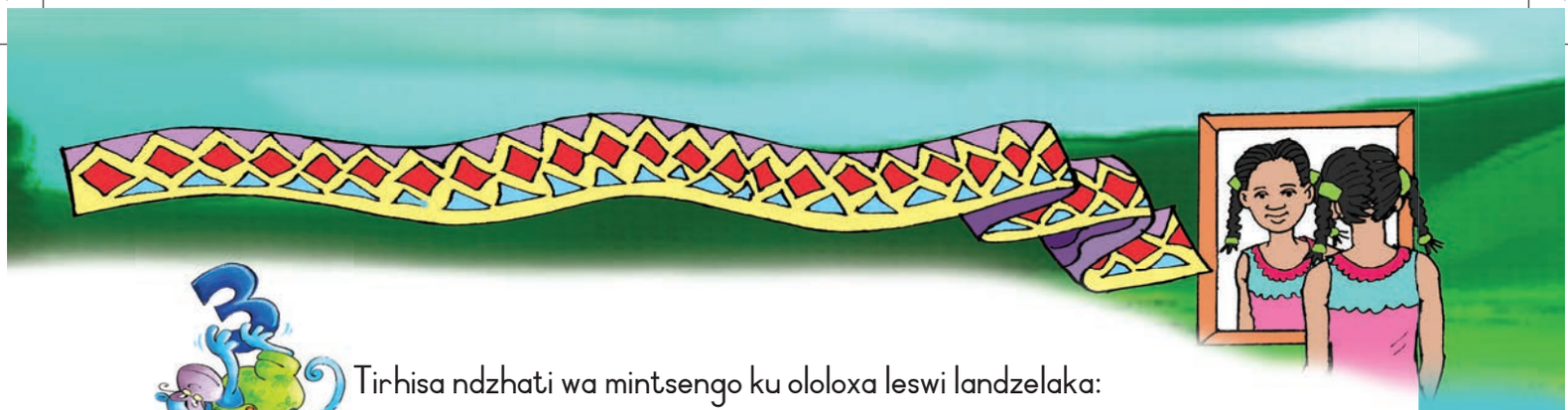


Lerato u na 4 wa malamula. Peter u n'wi nyikile 13 wa malamula.
Xana u na malamula mangani sweswi?

Mandla u na 5 wa tikhirayoni. Anne u na 8 wa tikhirayoni.
Xana i mani loyi a nga na tikhirayoni letitsongo?

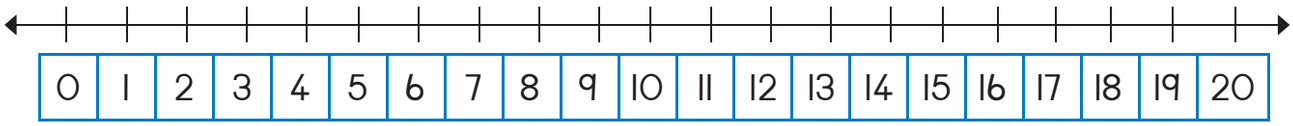


0 1 2 3 4 5 6 7 8 9 10

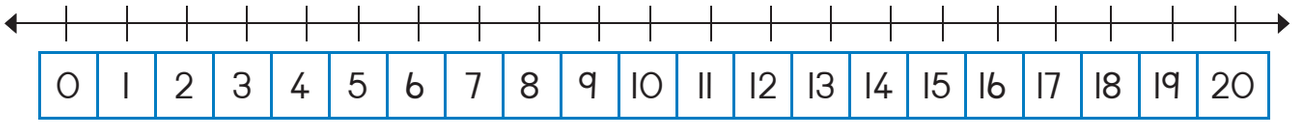


Tirhisa ndzhati wa mintsengo ku ololoxa leswi landzelaka:

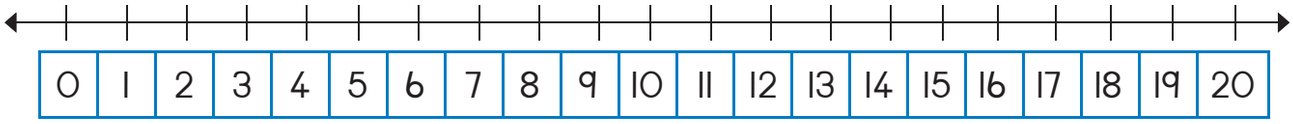
Thandi u na 6 wa timabulu ta rihlaza na 9 wa timabulu ta wasi.
Xana u na timabulu tingani?



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

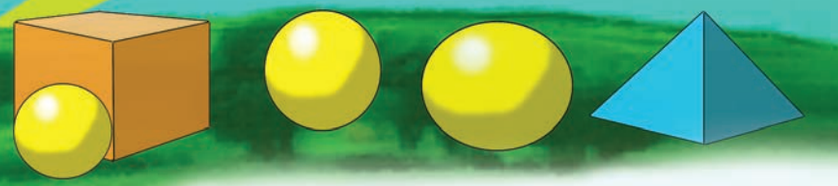
Bana xirhendzevutana eka nomboro leyikulu eka 76 hi 2.

74	75	76	77	78

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

105



Siku:

Tinomboro to landzelelana



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

Sipho	Lerato	John	Peter	Ann
				
	2	3		



Va dirowe va ri exitejini.



I mani loyi a kumeke nsuku? _____

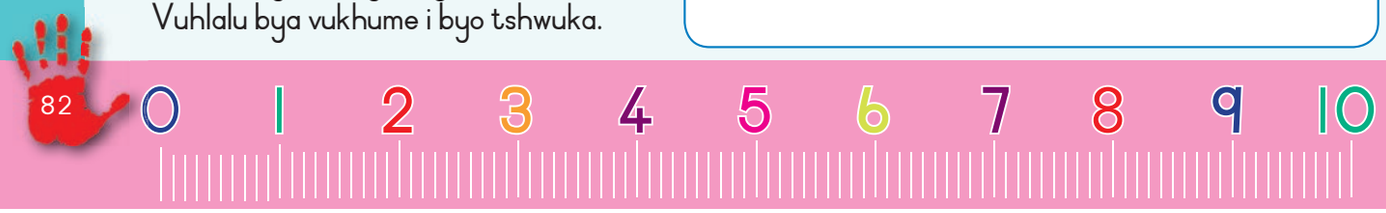
I mani loyi a kumeke silivhere? _____



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.

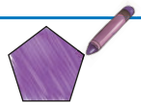
Vuhlalu bya mina.





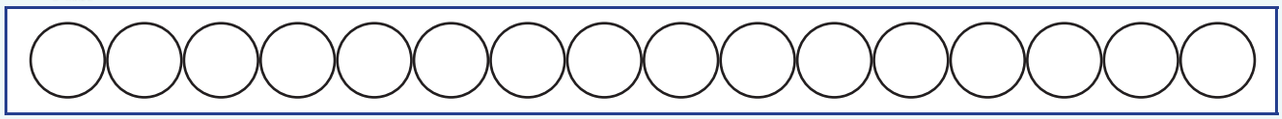
Languta ndzandzelelano wa swivumbeko.
Kopunula swivumbeko eka tindhawu leti faneleke etafuleni.
Hi ku endlele xo sungula.



I xivumbeko xihi lexi 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.



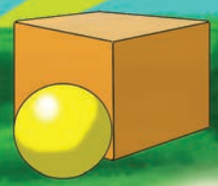
Dirowa ndzhati wa mintsengo ya 10 ku fika eka 20.
Bana swirhendzevutana eka nomboro ya vunharhu na nomboro ya vunhungu.

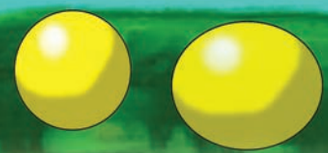




Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



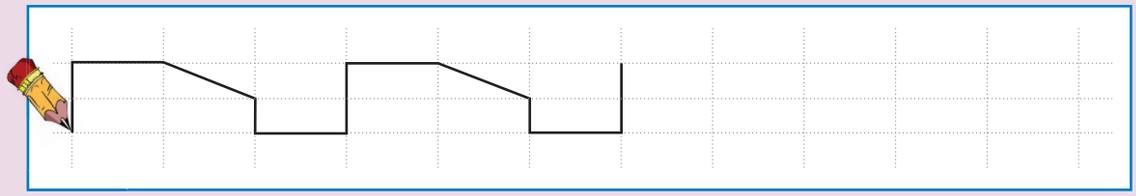


Siku:

Minchumu na swivumbeko

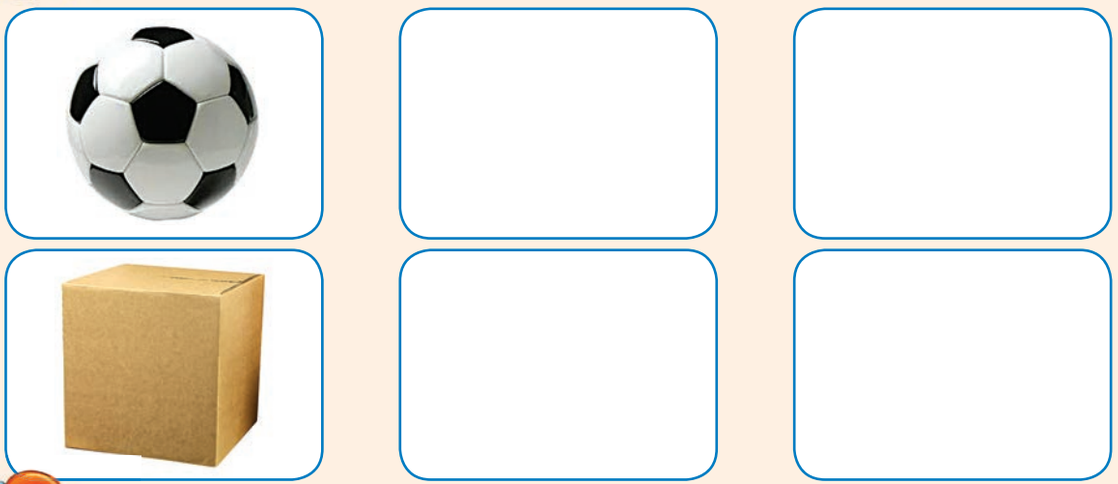
Mpfuxeto:

Mpfuxeto: Hetisa patironi.





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

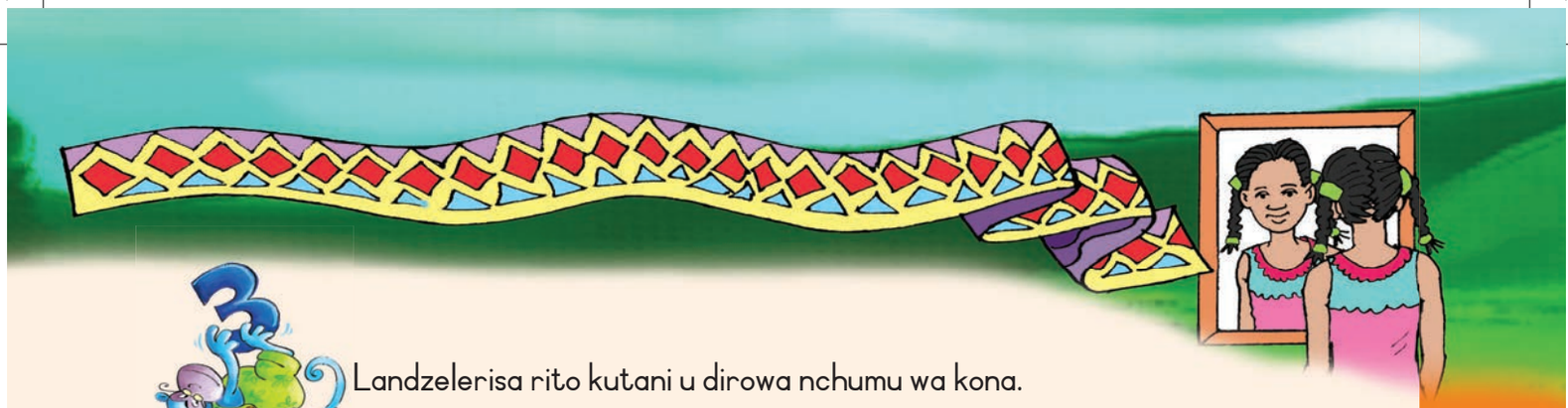




Dirowa xirhendzevutana xa wasi eka minchumu leyi rhetaka.
Dirowa xikwere xo tshwuka eka minchumu leyi khungulukaka.



0 1 2 3 4 5 6 7 8 9 10

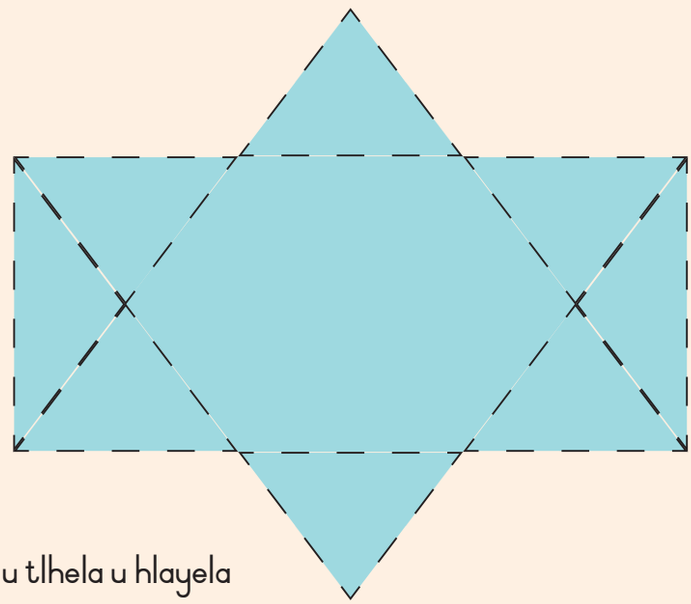


Landzelerisa rito kutani u dirowa nchumu wa kona.

bokisi

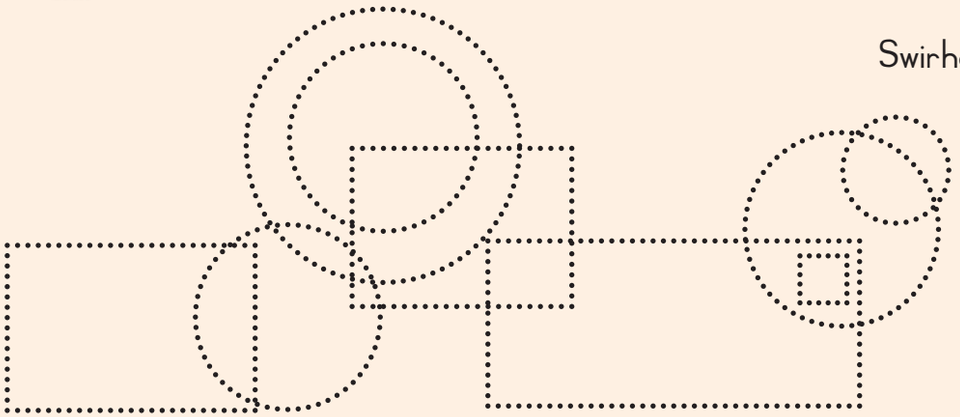
bala

Hlayela tiyinhlanharhu hinkwato kutani u tsala nhlayo ya tona.



Nhlamulo:

Landzelerisa u tlhela u hlayela swivumbeko.



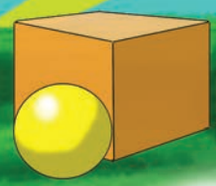
Swirhendzevutana

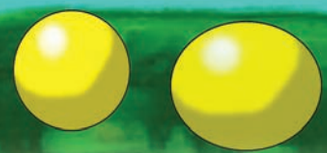
Swikwere

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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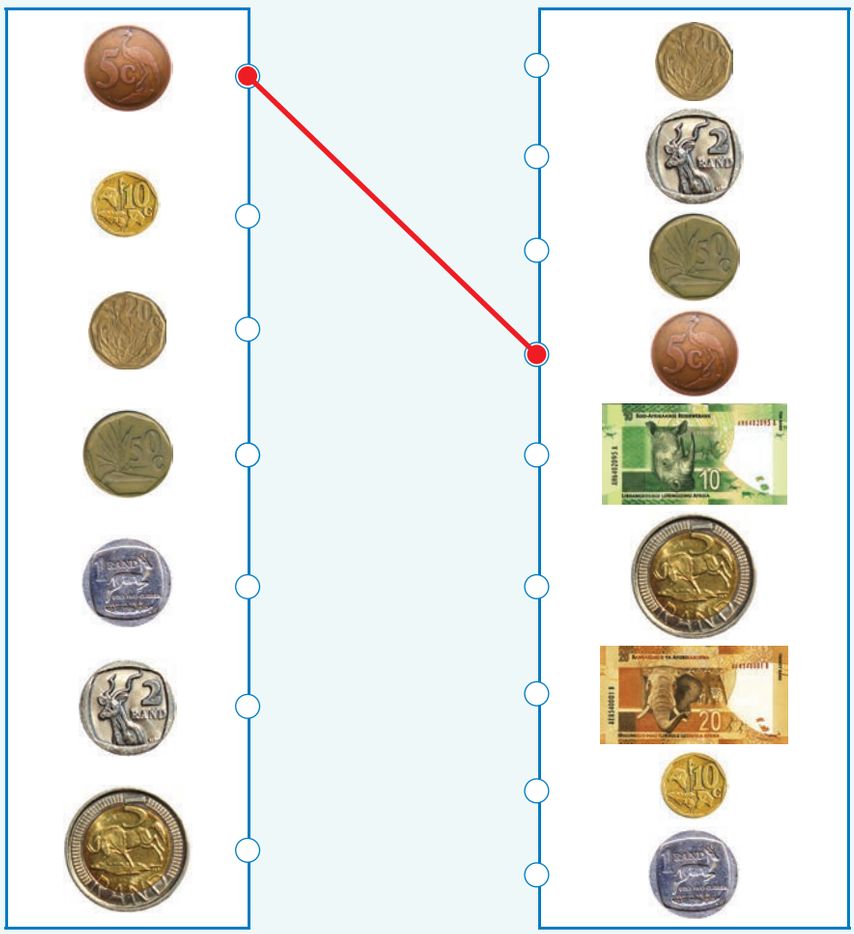


Siku:

Mali



Hi swihi swingwece leswi u nga swi pananisaka?

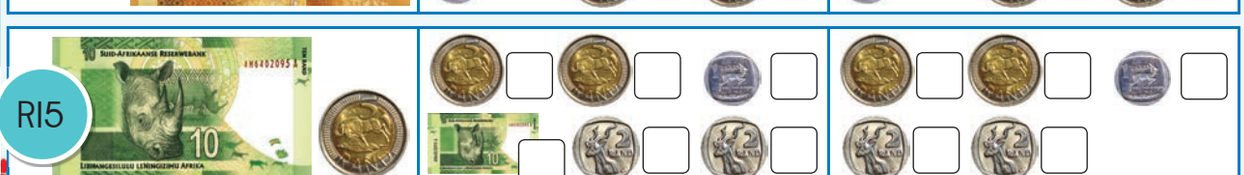




Gwajula swingwece na mali ya maphepha eka buloko yin'wana na yin'wana leyi nga ta ku nyika mintsengo leyi landzelaka.







0 1 2 3 4 5 6 7 8 9 10



3 Susa R2.

		
R12 – R2 = R10		

4 Susa R5.

		
R15 – R5 = R10		

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

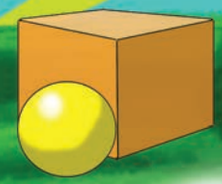


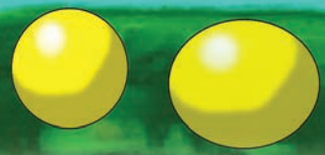
6 Bana xirhendzevutana eka xingwece lexi u nga xavaka swo tala hi xona eka ntila wun'wana na wun'wana

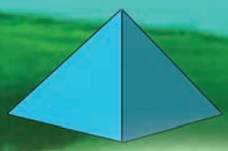


Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20







Siku:

Mali yin'wana



Khakhuleta.

R5	+ R7	
R9		
R7		
R4		



Khakhuleta.

RI3	− R6	
RI5		
RI7		
RI4		



Tatisa nhlamulo.

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



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

5c kumbe R5
20c kumbe R20
RI kumbe 50c
R2 kumbe RI
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	RI	=
=	=	=	=

0 1 2 3 4 5 6 7 8 9 10





Languta xikombiso endzhaku u hetisa leswi saleke.

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



Jimisi u xavile xinkwa hi R8. U xi hakelerile hi mali ya phepha ya R10. 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 R17. U hakerile hi mali ya phepha ya tiR10 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 R10 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.

_____



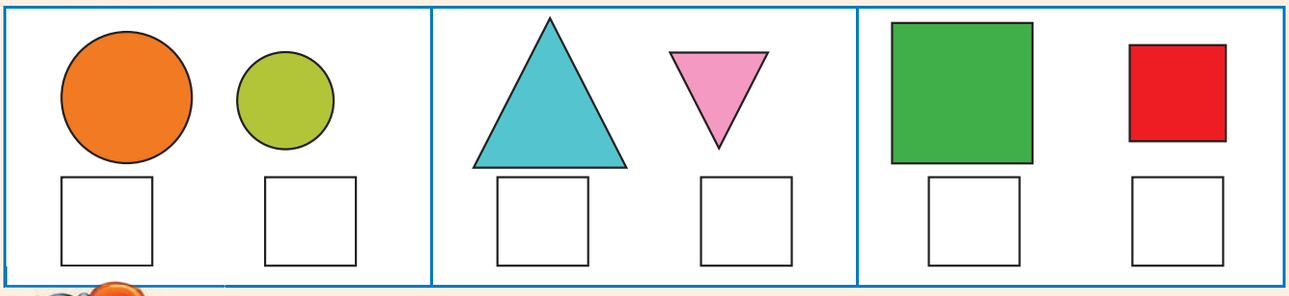
11 12 13 14 15 16 17 18 19 20

Siku:

Swivumbeko swa 2 wa matlhelo

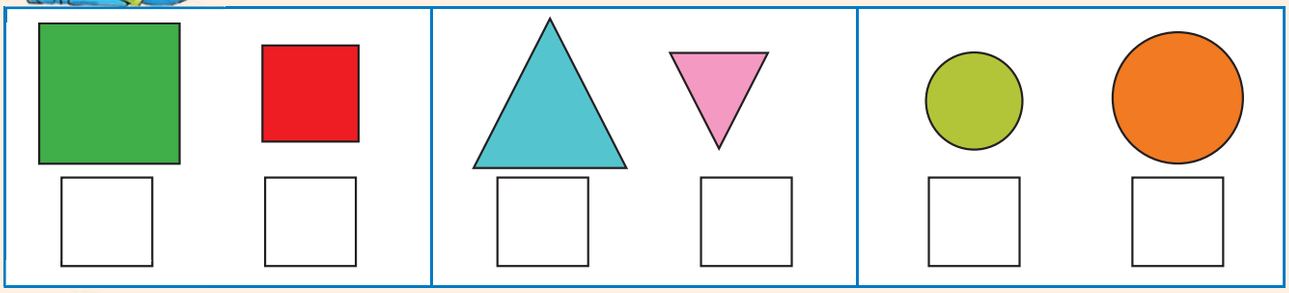


Gwajula xivumbeko lexitsongo eka buloko yin'wana a yin'wana.





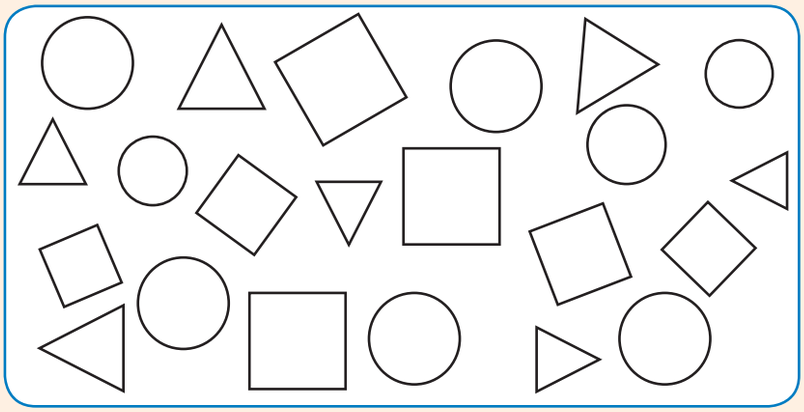
Gwajula xivumbeko lexikulu eka buloko yin'wana a yin'wana.





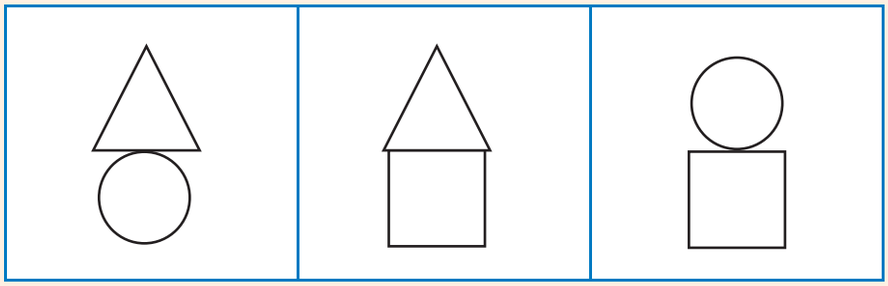
Khalara hinkwaswo:

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

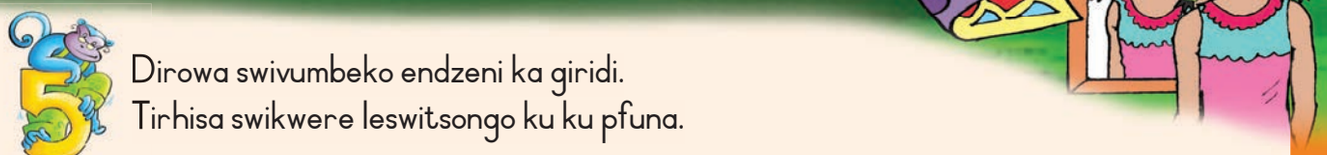




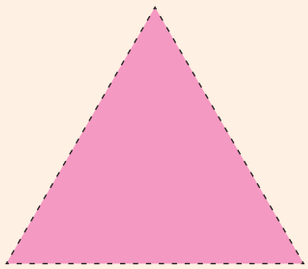
Endla xifaniso hi ku tirhisa swivumbeko. Hi sungule xifaniso hi 2 wa swivumbeko.



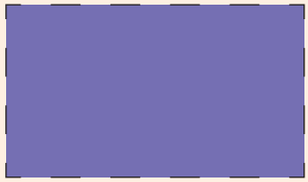
0 1 2 3 4 5 6 7 8 9 10

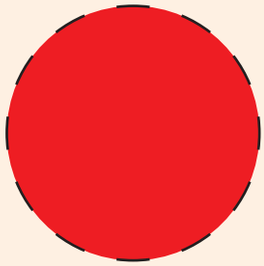


Dirowa swivumbeko endzeni ka giridi.
Tirhisa swikwere leswitsongo ku ku pfuna.









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11 12 13 14 15 16 17 18 19 20

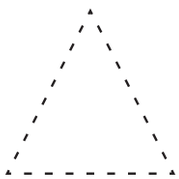
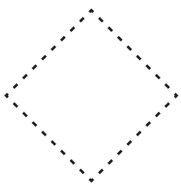
110

Siku:

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

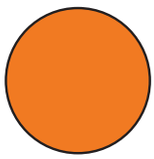
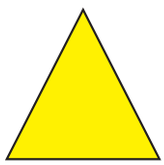


Landzelerisa swivumbeko leswi landzelaka.

 yinhlanharhu	 xirhendzevutana	 xikwere
 xirhendzevutana	 yinhlanharhu	 xikwere



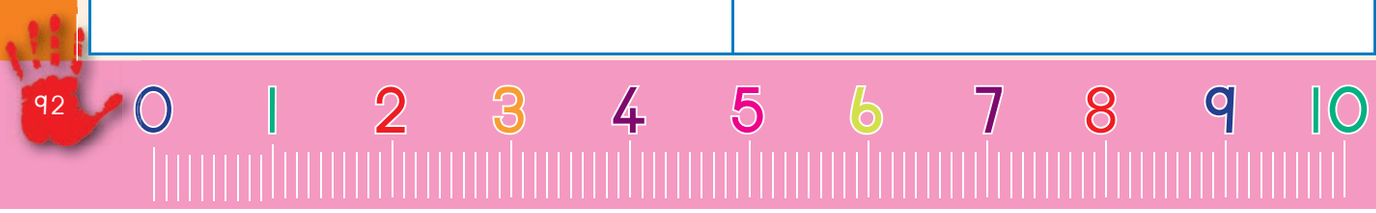
Gwajula ku hlamusela loko xivumbeko xi ri na matlhelo yo kongoma thwixi kumbe matlhelo ya xirhendzevutana.

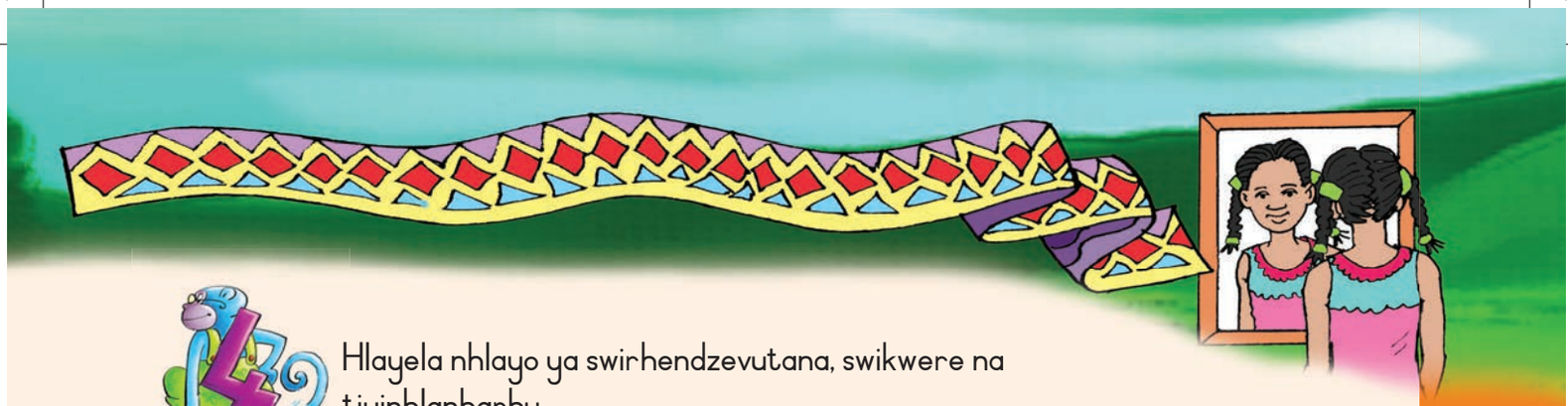
 matlhelo ya xirhendzevutana ☐ matlhelo yo kongoma thwixi ☐	 matlhelo ya xirhendzevutana ☐ matlhelo yo kongoma thwixi ☐	 matlhelo ya xirhendzevutana ☐ matlhelo yo kongoma thwixi ☐



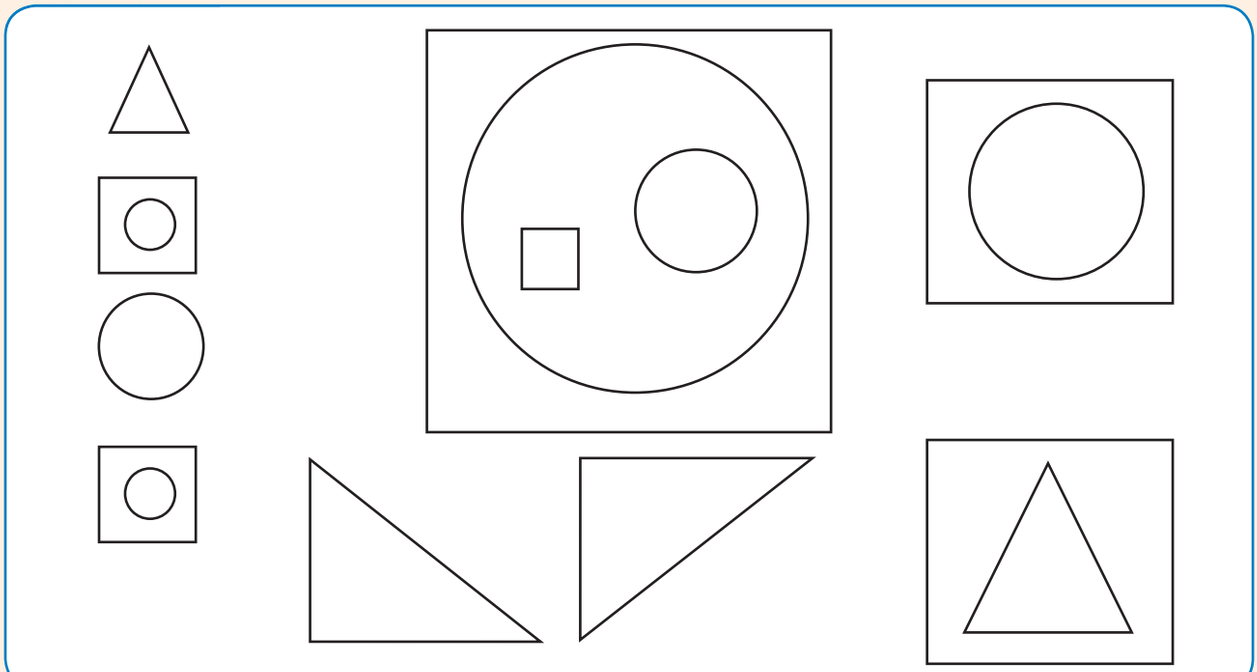
Dirowa xivumbeko lexi nga na:

matlhelo yo kongoma thwixi	matlhelo ya xirhendzevutana





4 Hlayela nhlayo ya swirhendzevutana, swikwere na tiyinhlanharhu.



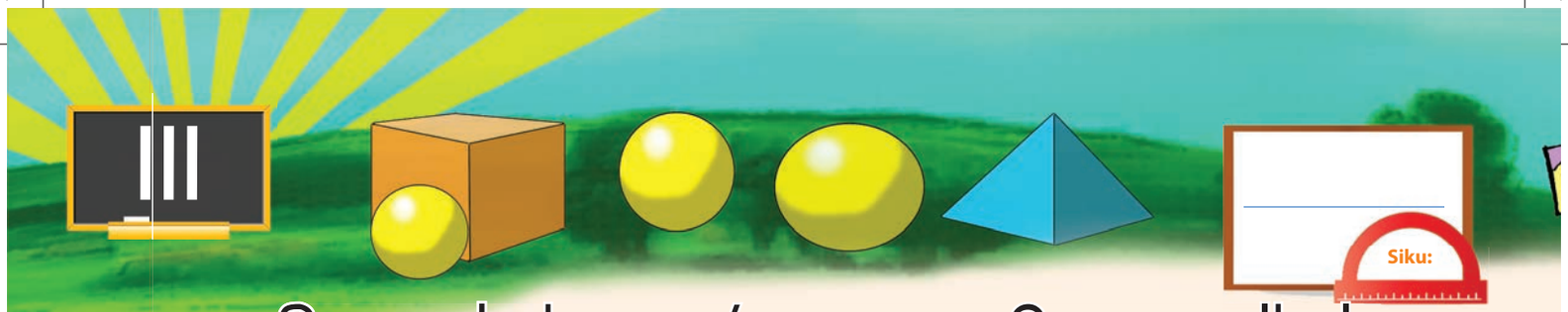
Xirhendzevutana ☐ Xikwere ☐ Yinhlanharhu ☐

5 Lava xifaniso eka magazini kumbe phephahungu lexi nga na:

matlhelo ya xirhendzevutana	matlhelo yo kongoma thwixi

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Date:

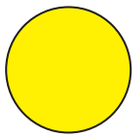
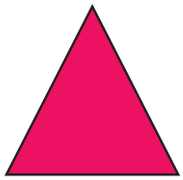
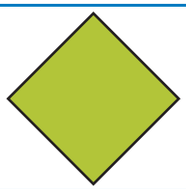
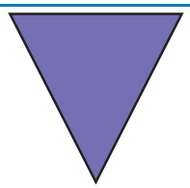
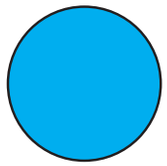
11 12 13 14 15 16 17 18 19 20



Swivumbeko swin'wana swa 2 wa matlhelo



Nyika mavito ya swivumbeko leswi landzelaka:

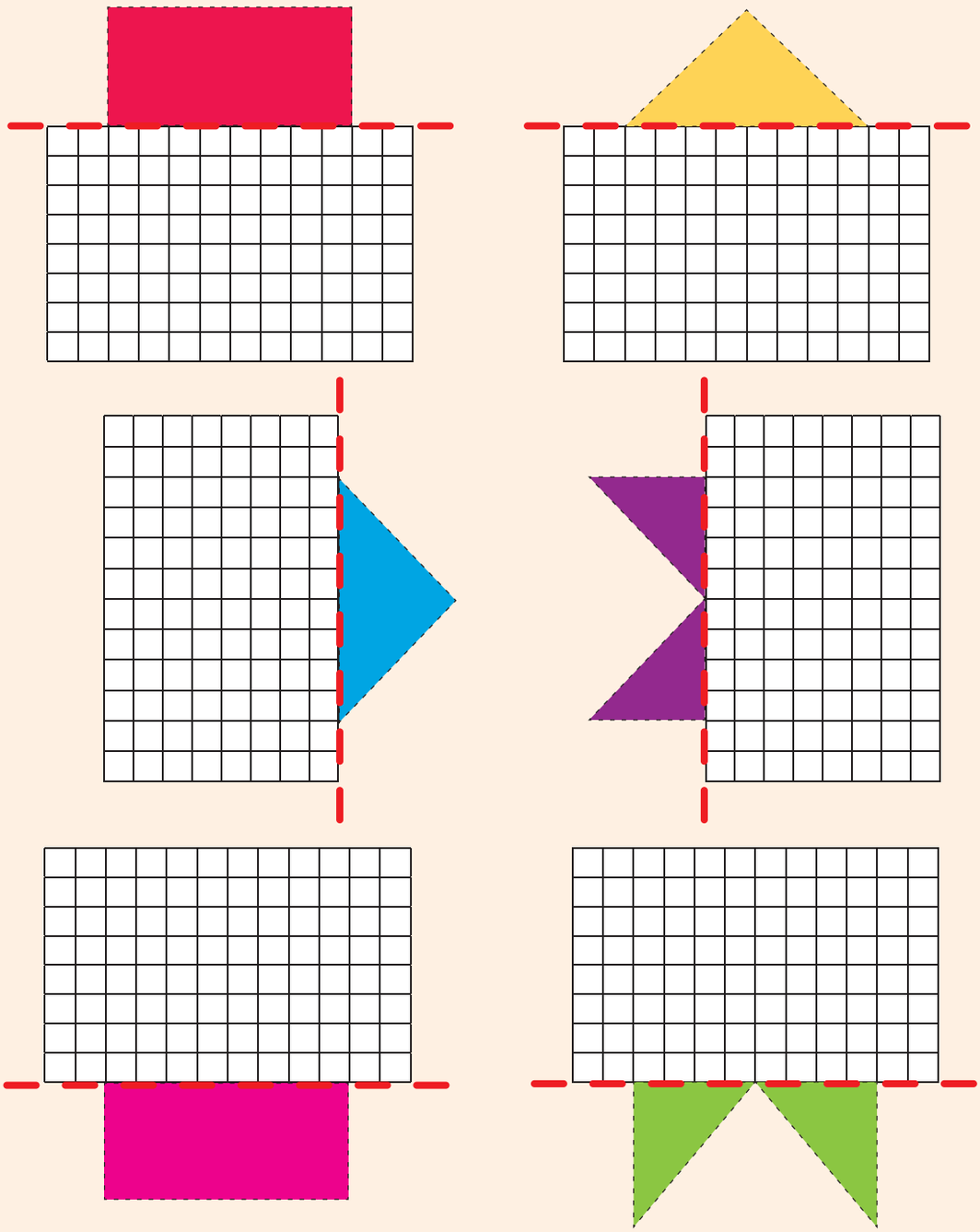


Dirowa xifaniso u tirhisa swirhendzevutana, tiyinhlanharhu na swikwere ntsena.





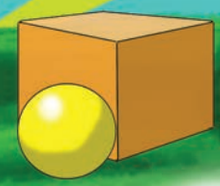
Dirowa hafu yin'wana ya xivumbeko xin'wana na xin'wana.
Tirhisa swikwere leswitsongo ku ku pfuna.

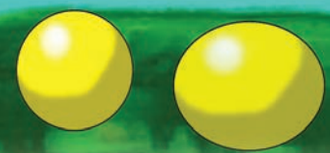


Hinkwaswo swi na matlhelo | yo kongoma thwixi | ya xirhendzevutana |.

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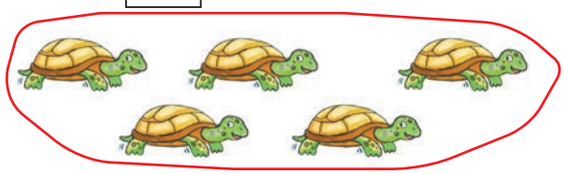


Siku:

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 = [ ]

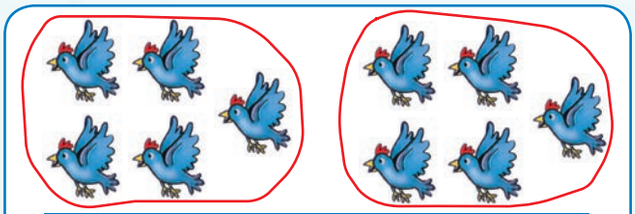


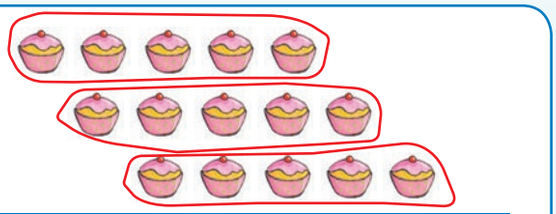
5 + 5 + 5 + 5 + 5 + 5 = [ ]

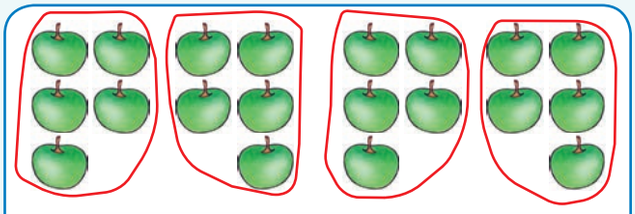
0 1 2 3 4 5 6 7 8 9 10



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	

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11 12 13 14 15 16 17 18 19 20

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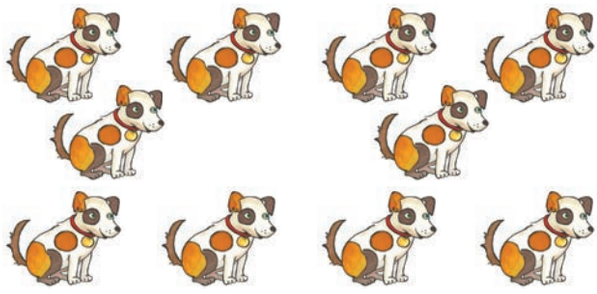
Siku:

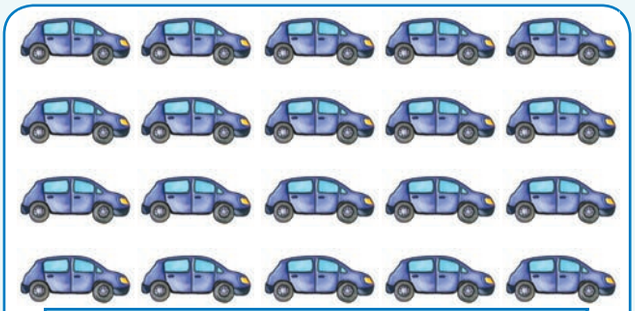
Vuntlhanu – ku hlanganisa ko vuyelela ku fika eka 20

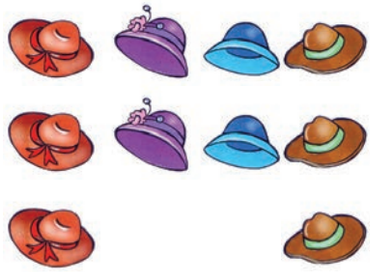


Endla mintlawa ya vuntlhanu u tlhela u tsala xivulwa xa tinomboro.











Dirowa mintlawa ya swivumbeko ku kombisa swivulwa swa tinomboro.

5 + 5 + 5 = ☐

5 + 5 + 5 + 5 = ☐

0 1 2 3 4 5 6 7 8 9 10



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

5 + 5 = ☐

☐

☐

☐

U hlayele tinomboro ta vuntlhanu kangani? _____

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

Ku na swandla swinharhu efasitereni. Xana ku na tintiho tingani efasitereni? Dirowa xifaniso u tlhela u tsala xivulwa xa tinomboro.

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11 12 13 14 15 16 17 18 19 20

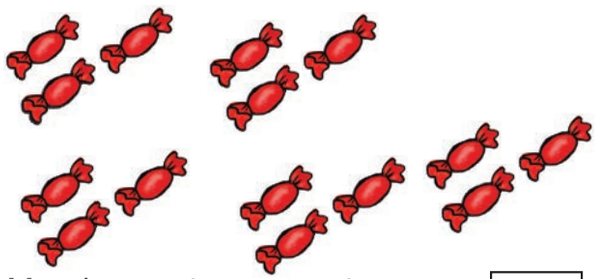
114

Siku:

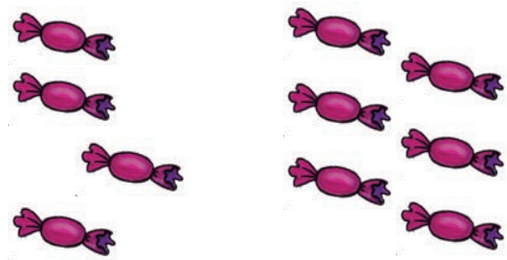
Ku ava ku fika eka 20



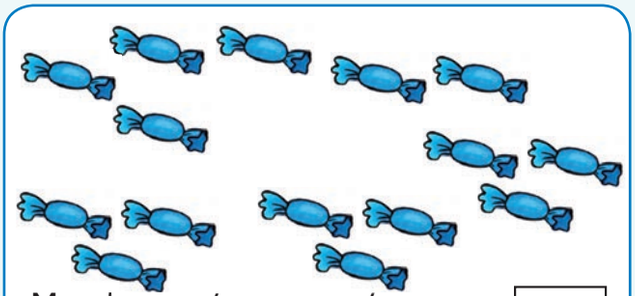
Ava malekere exikarhi ka vanghana va ntlhanu.
Xana un'wana na un'wana u ta kuma malekere mangani?



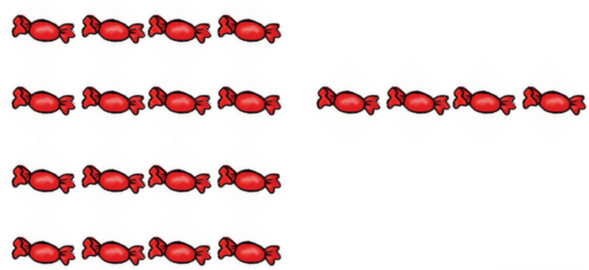
Munghana un'wana na un'wana u ta kuma malekere ya ☐



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 ☐

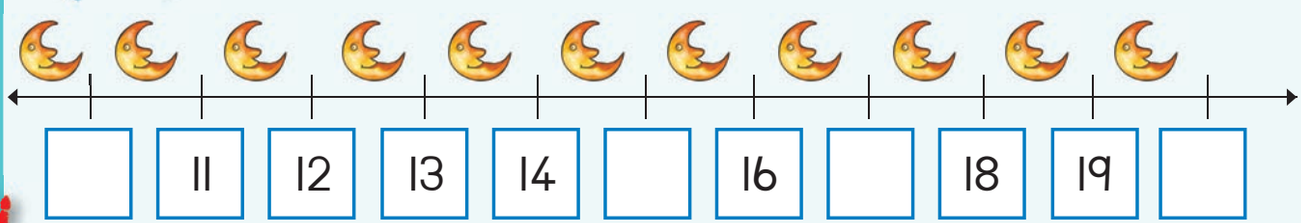


Khalara miandziso ya ntlhanu.

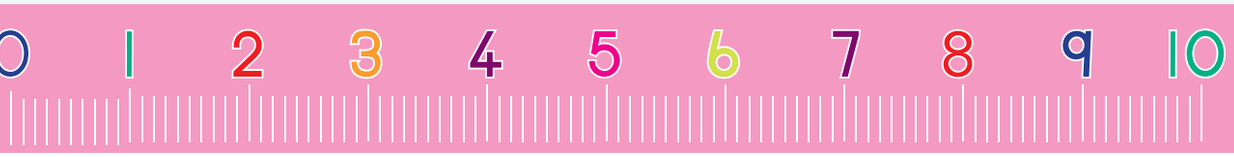
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

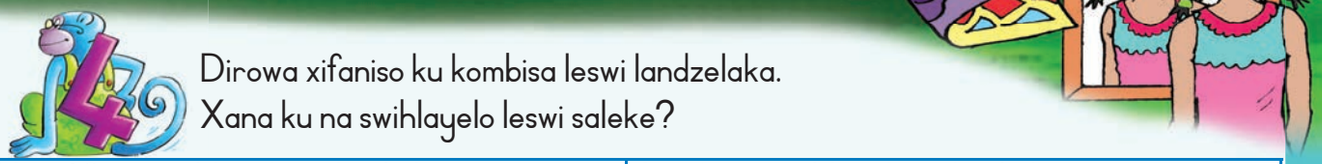


Tatisa tinomboro leti siyiweke.



☐	11	12	13	14	☐	16	☐	18	19	☐





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

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Siku:

Tipatironi ta tinomboro – vuntlhanu ku fika eka 100



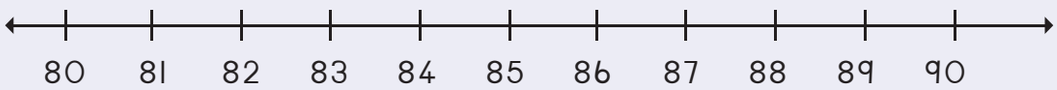
Hetisa patironi hi ku khalara minyandzisiwa ya ntlhanu.

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

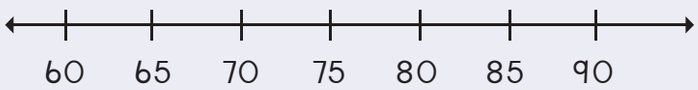


Dirowa tihupu ku kombisa leswi landzelaka:

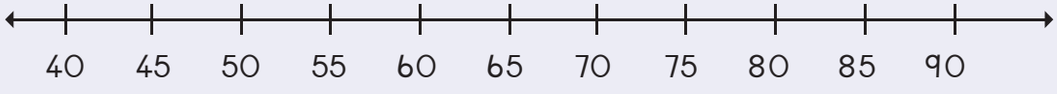
86, 88, 90



70, 75, 80



55, 60, 65, 70





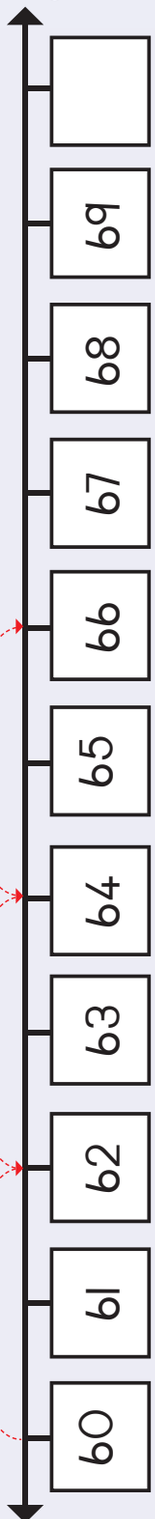
Tirhisa wachi ku kombisa ku hlayela timinete hi vuntlhanu.

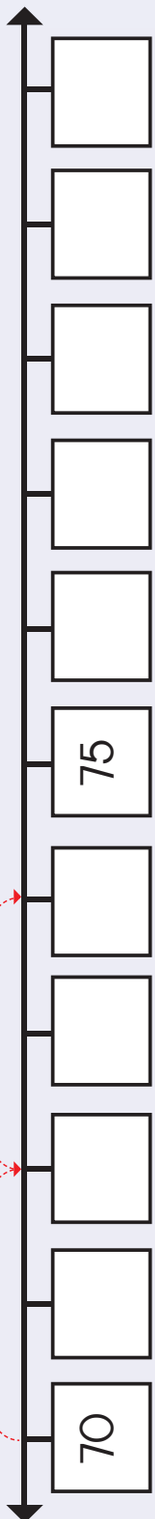


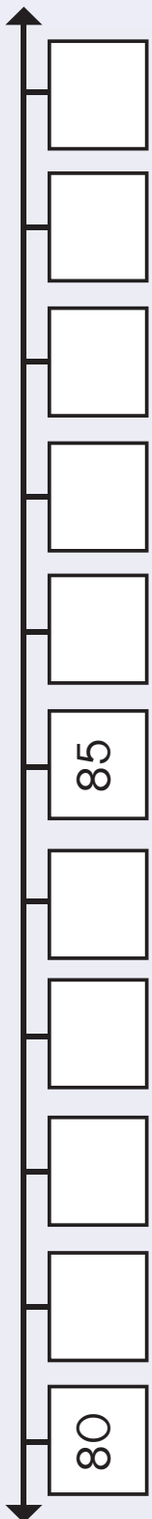




Veka tinomboro to huma eka Xitsemiwa xa 2 eka tindhawu leti ku siyiweke tinomboro eka mindzhati ya mintsengo. Tlhela u hetisa na tihupu.



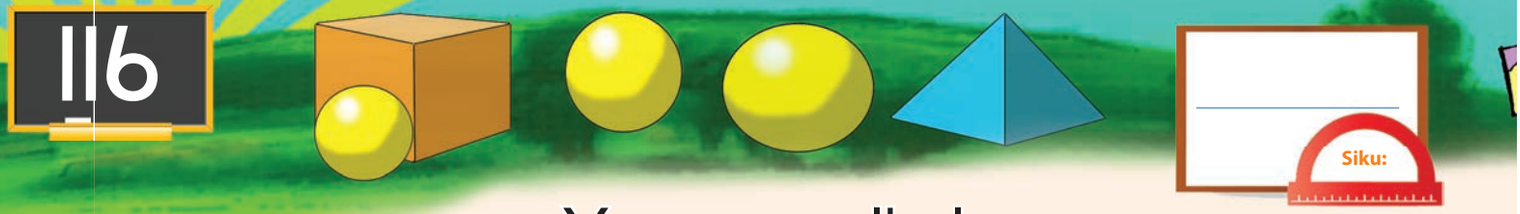




Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

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Siku:

Xiyimo na tlhelo



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

Emahlweni









Endzhaku







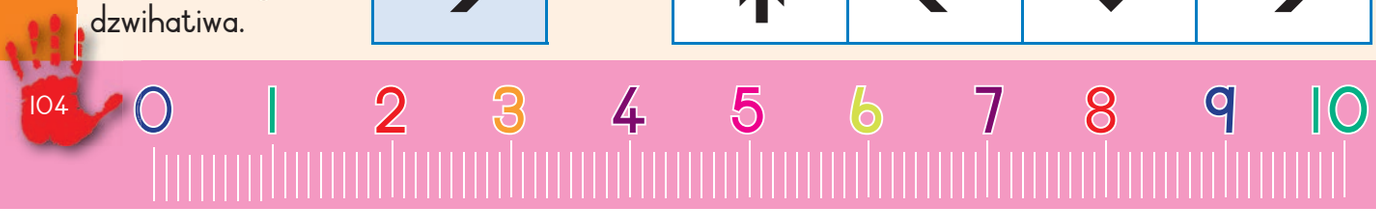




Bana xirhendzevutana eka nseve lowu yelanaka na nseve lowu nga dzwihatiwa.

↑	
↓	
←	
→	

→	←	↑	↓
↑	↓	→	←
→	←	↑	↓
↑	←	↓	→





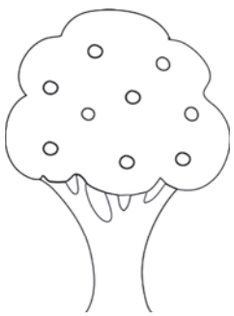
Khalara tlhelo leri faneleke.

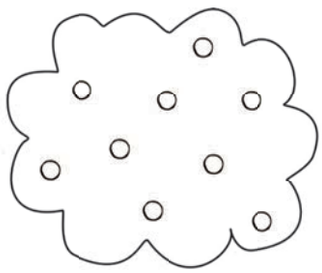
		
Tlhelo ra le henhla	Tlhelo ra le henhla	Tlhelo ra le ndzhaku
Tlhelo ra le matlhelo	Tlhelo ra le matlhelo	Tlhelo ra le matlhelo
Tlhelo ra le mahlweni	Tlhelo ra le mahlweni	Tlhelo ra le mahlweni

Xana ximanga xi le kwihi?
Khalara nhlamulo leyi faneleke.

		
Endzhaku	Endzhaku	Endzhaku
Emahlweni	Emahlweni	Emahlweni
Ekusuhi na	Ekusuhi na	Ekusuhi na

Languta swifaniso swa mirhi.
Khalara tlhelo ra le henhla.





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Sign:
Date:

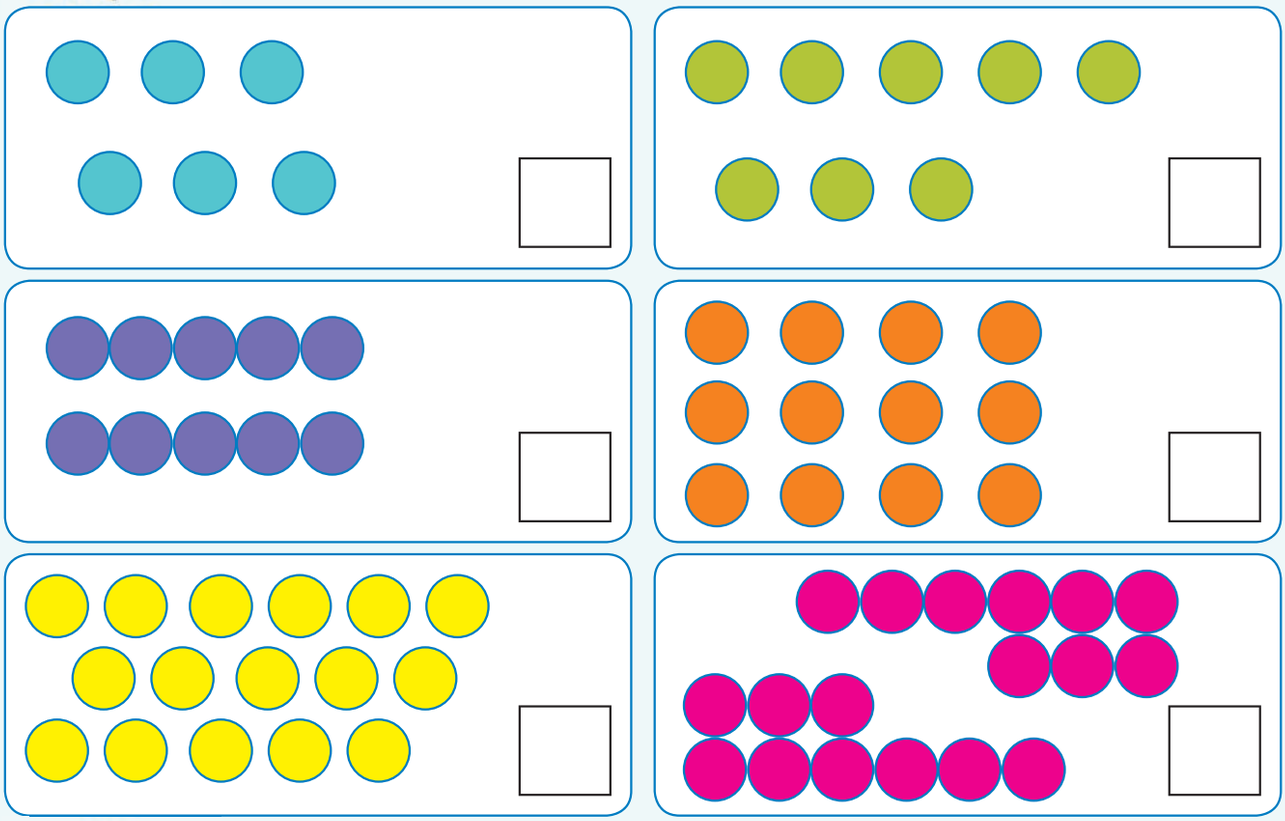
11 12 13 14 15 16 17 18 19 20

Siku:

Mintlawa ya vumbirhi ku fika eka 20

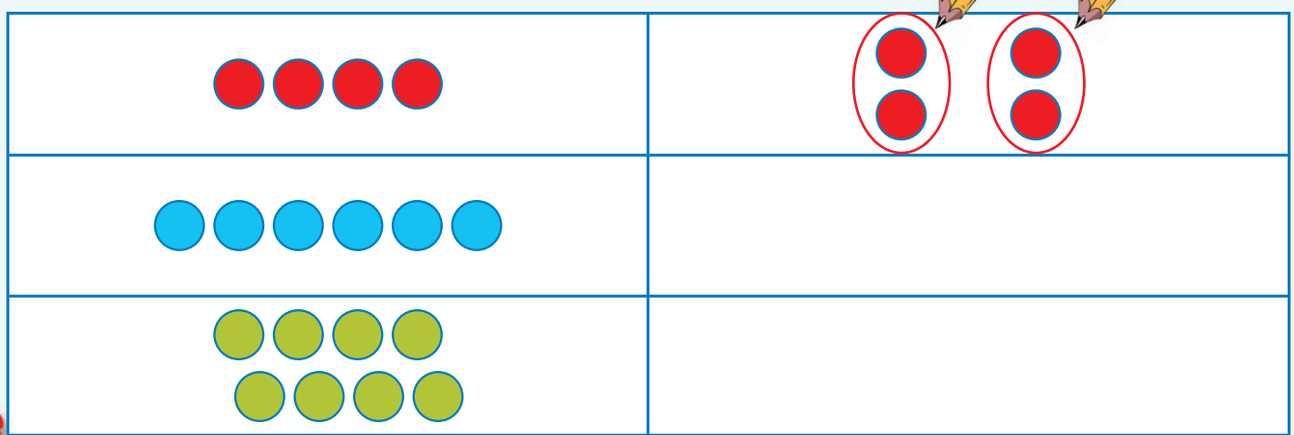


Endla mintlawa ya vumbirhi. Tsala leswaku i mintlawa yingani leyi nga kona.



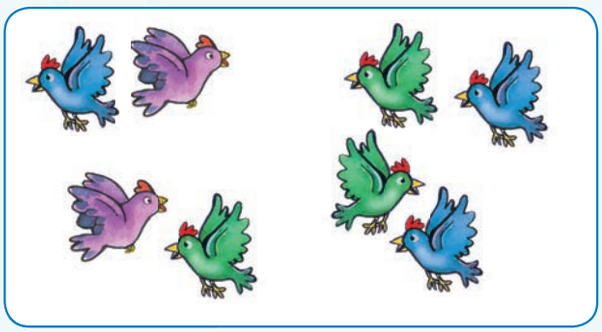


Endla mintlawa ya vumbirhi. Dirowa mintlawa.





Hlamula swivutiso leswi landzelaka.



Ku na swinyenyana swingani?

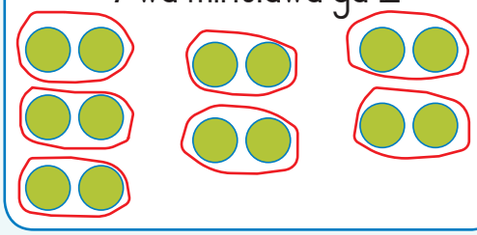
I mintlawa yingani ya swimbirhi leyi u nga kotaka ku yi endla?

Tsala xivulwa xa tinomboro.



Dirowa swirhendzevutana ku endla leswi landzelaka.

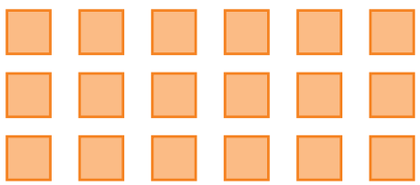
7 wa mintlawa ya 2



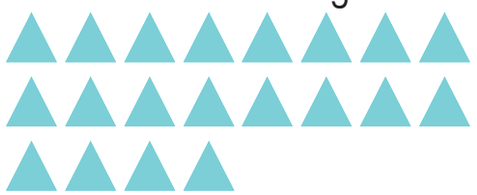
8 wa mintlawa ya 2



9 wa mintlawa ya 2

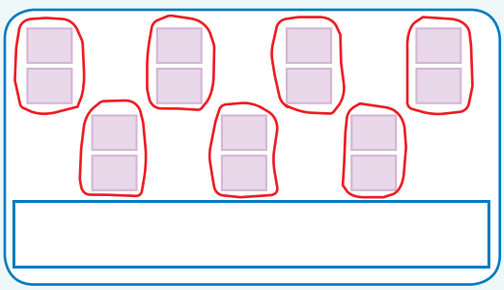


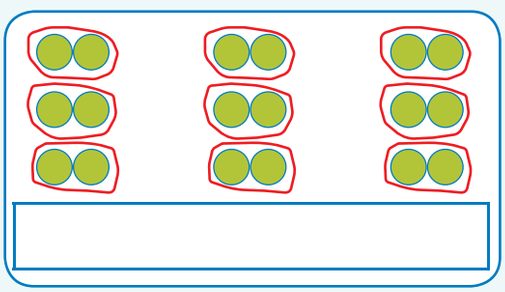
10 wa mintlawa ya 2

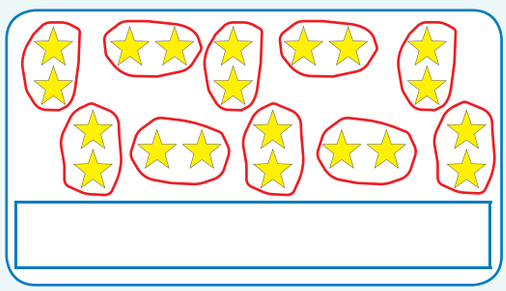


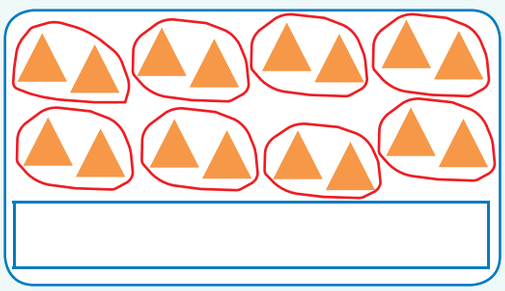


Tsala xivulwa xa tinomboro xa leswi landzelaka.











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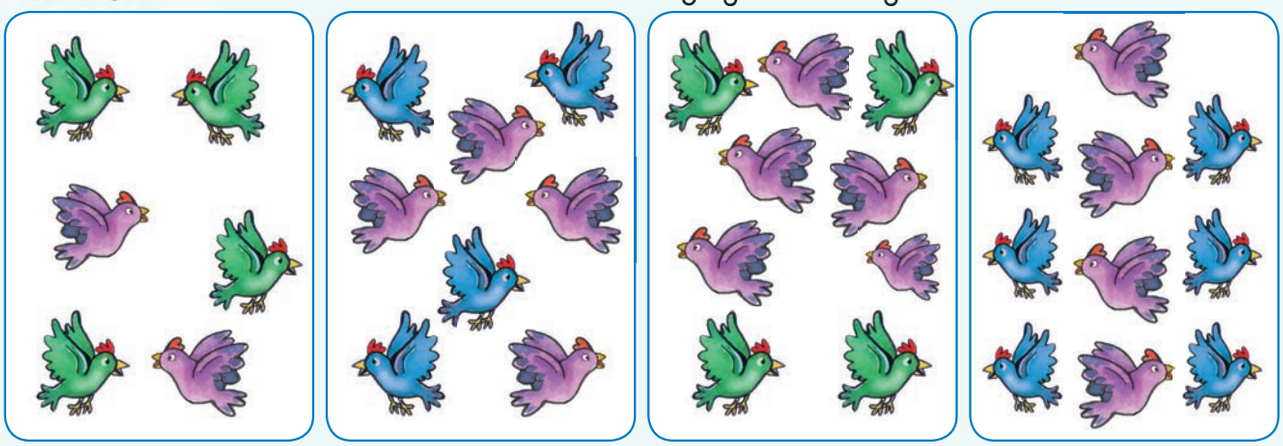
11 12 13 14 15 16 17 18 19 20



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 =

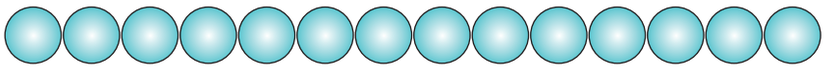
2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 =

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

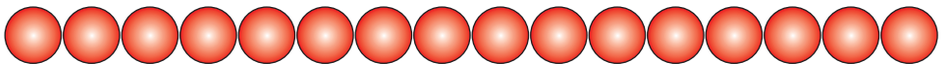




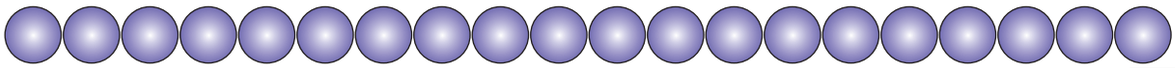
Tsala xivulwa xa tinomboro xa leswi landzelaka:



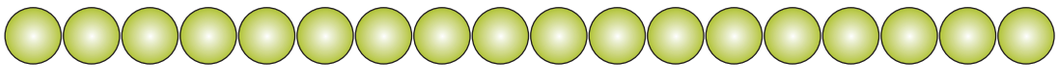
2 + 2 + 2 + 2 + 2 + 2 + 2 = ☐



☐



☐



☐

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

119

Siku:

Patironi ya tinomboro – vumbirhi ku fika eka 100



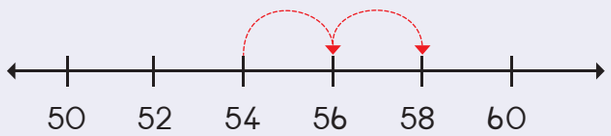
Hetisa patironi hi ku khalara tinomboro.

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

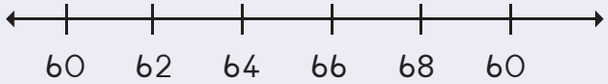


Dirowa tihupu ku kombisa leswi landzelaka:

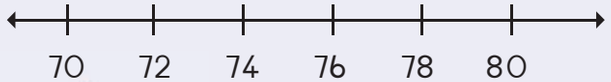
54, 56, 58



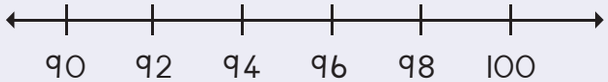
64, 66, 68



74, 76, 78



94, 96, 98



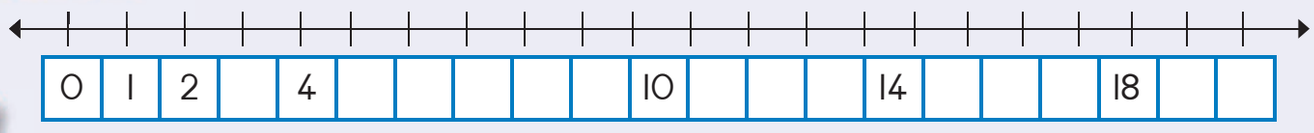


Tatisa tinomboro leti siyiweke. Khalara patironi: 2, 4…

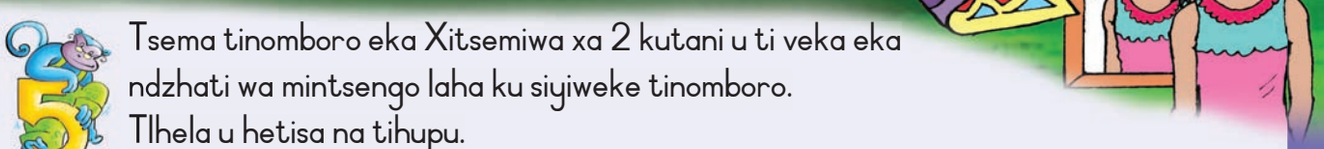
1		3				7			10
11						17			20



Hetisa ndzhati wa mintsengo.







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

69		67		65		63		61	60

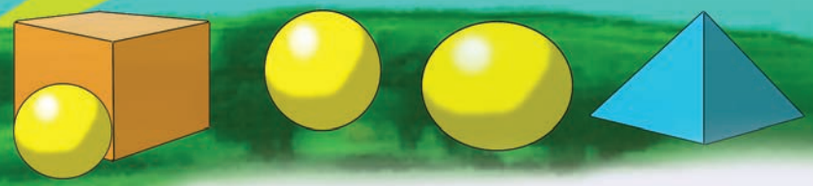
79		77		75		73		71	70

89		87		85		83		81	80

99		97		95		93		91	90

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

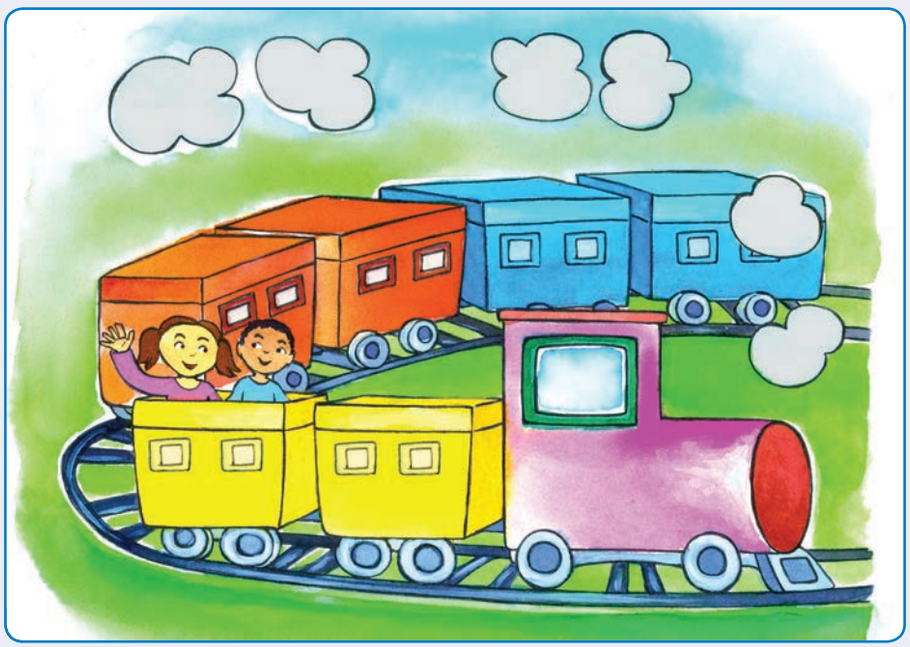


Siku:

Tipatironi ta tinomboro – vumbirhi ku fika eka 100

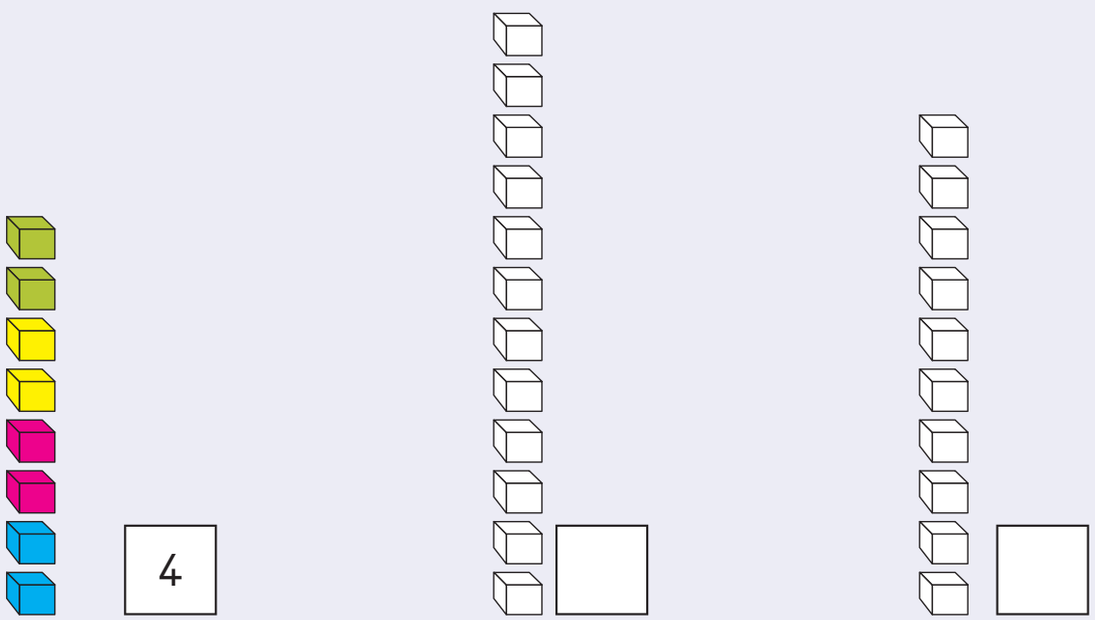


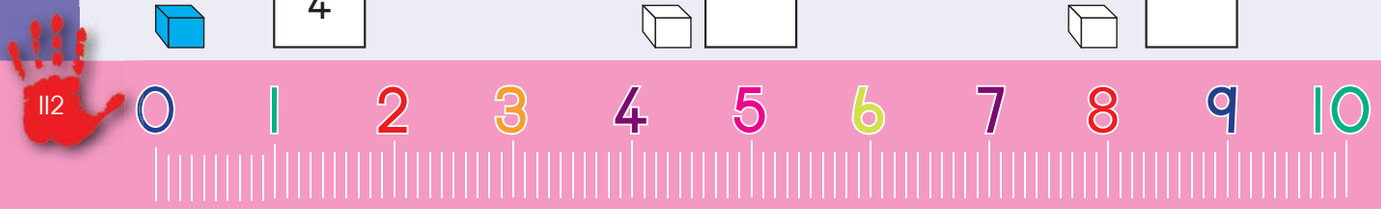
Xana u kota ku vona patironi ya swimbirhi?





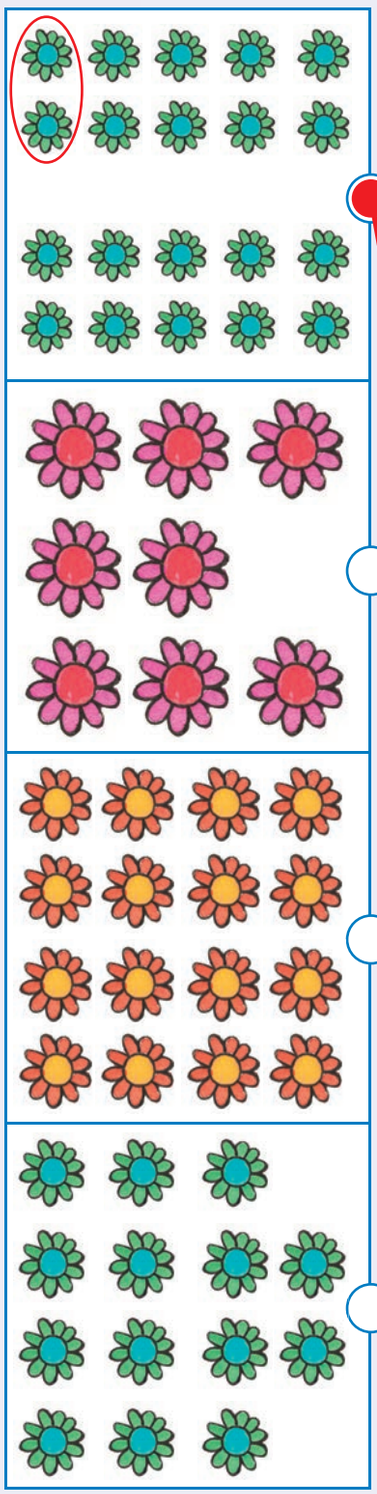
Khalara tibuloko ku kombisa mintlawa ya vumbirhi.
Hlayela leswaku i mintlawa yingani leyi nga kona.







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



$2 + 2 + 2 + 2 = 8$

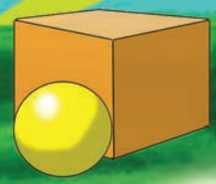
$2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$

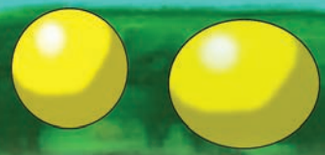
$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20$

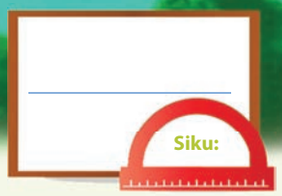
$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



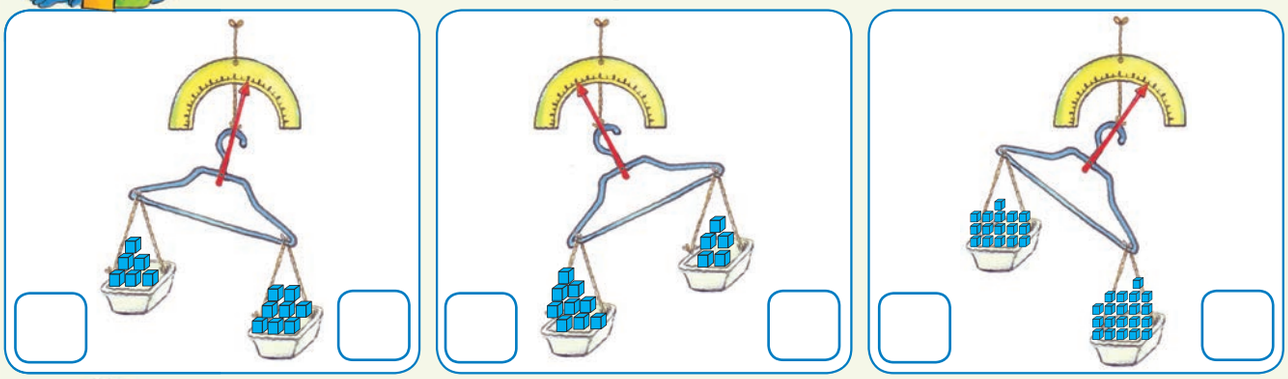




Masa (ntiko)

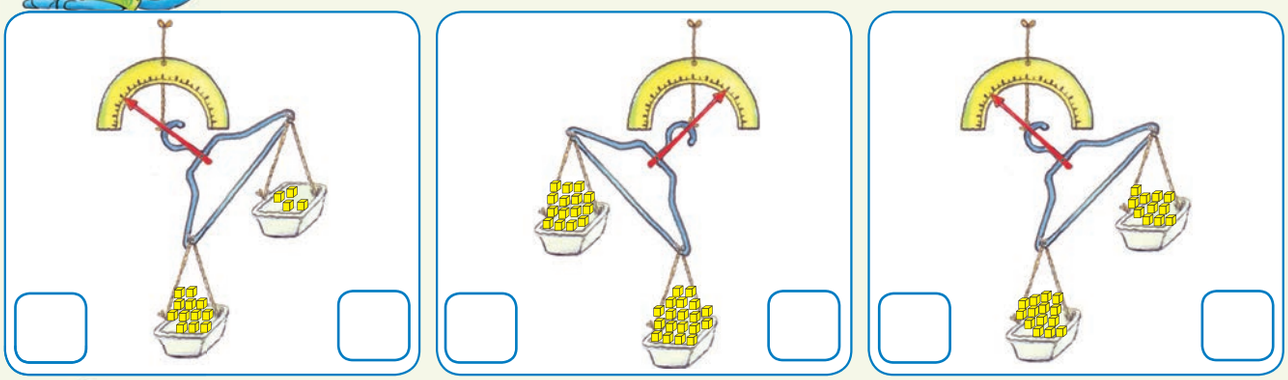


Tsala leswaku ku na tibuloko tingani eka xibye xin'wana na xin'wana.
Bana xirhendzevutana eka xibye lexi tikaka.



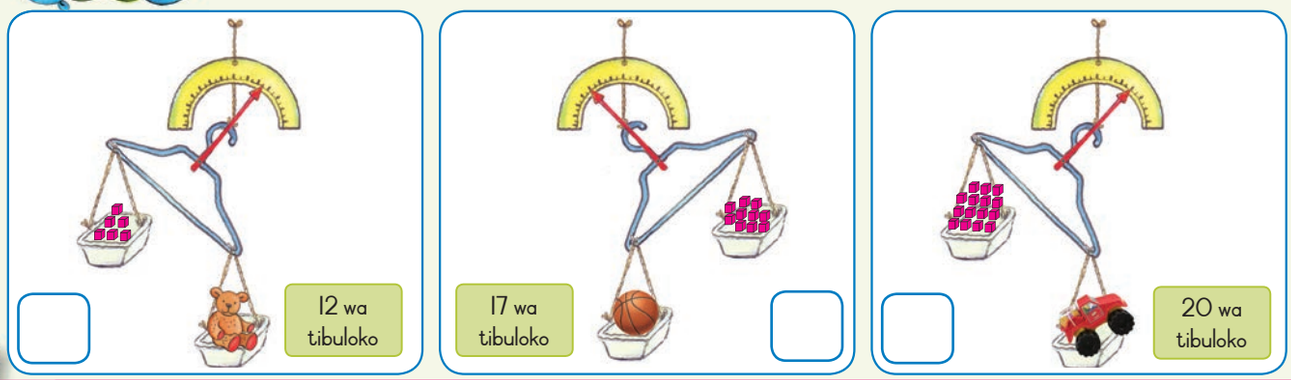


Tsala leswaku ku na tibuloko tingani eka xibye xin'wana na xin'wana.
Bana xirhendzevutana eka xibye lexi vevukaka.





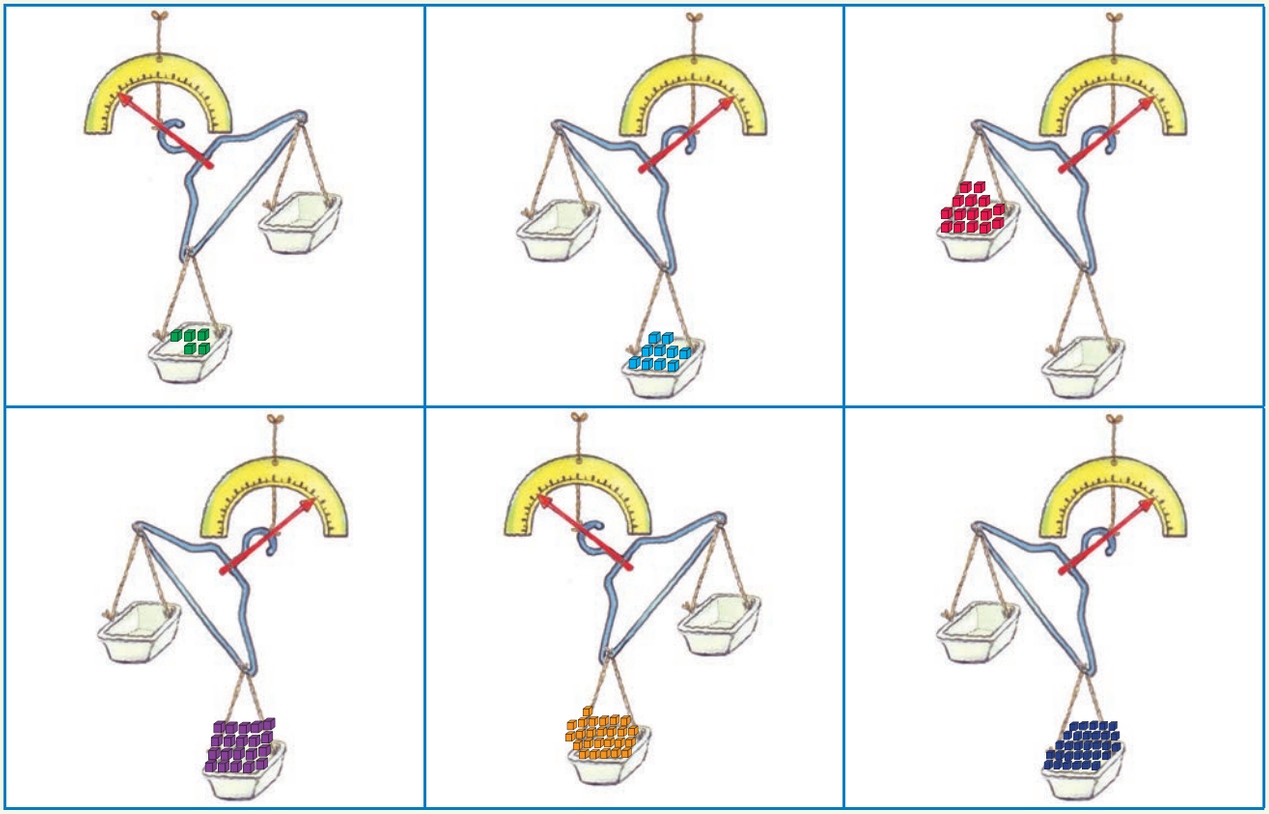
Hlayela leswaku i tibuloko tingani leti nga kona. Kuma leswaku ku laveka tibuloko tin'wana tingani leswaku ti kota ku balansisa xitlangiso. Hi ku byela leswaku xitlangiso xi na ntiko wa tibuloko tingani.







Dirowa nchumu wo tika kumbe wo vevuka ku tlula tibuloko.

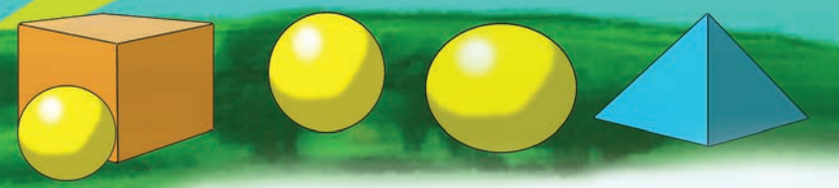


Tirhisa 5 wa minchumu eka desika ra wena. Rhanga u pimanyeta ntiko kutani endzhaku u pima eka xikalu kumbe u yi balansa ku kambisisa loko mpimanyeto wa wena wu lulamile.

Dirowa xanchumu	Bvumba	Masa	Ku hambana
	___ wa tibuloko	___ wa tibuloko	___ − ___ = ____

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



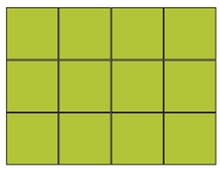
Siku:

Ku mbirhihata

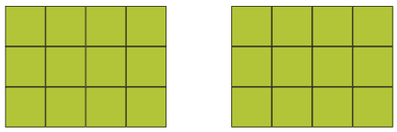


Hlamula swivutiso leswi landzelaka:

Ku na swikwere swingani?

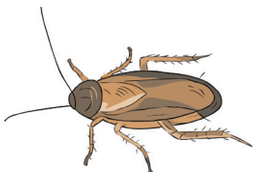


Ku na swikwere swingani sweswi?

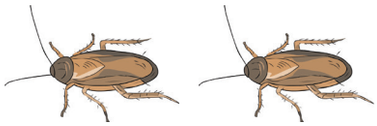


Hi vula leswaku 12 kambirhi i 24.

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

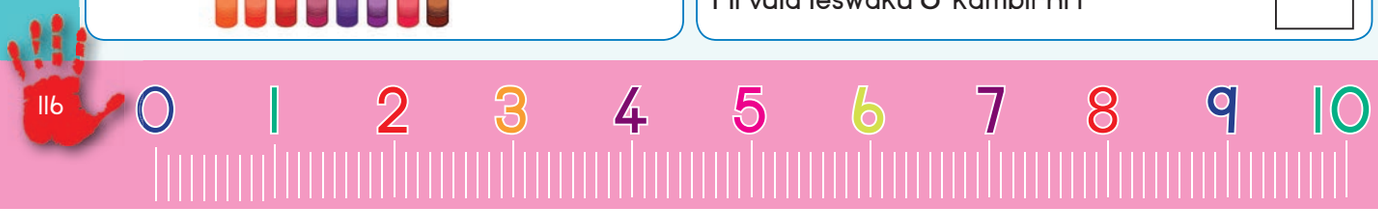
Ku na tikhirayoni tingani?



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	

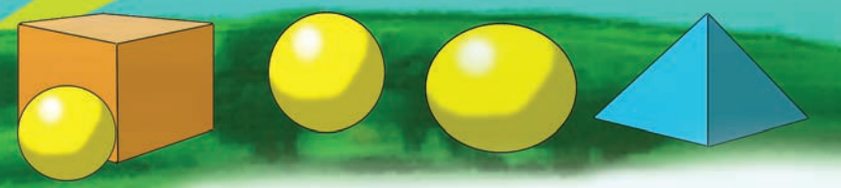


Hetisa tafula leri landzelaka.

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

Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20



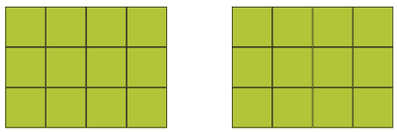
Siku:

Ku hafula

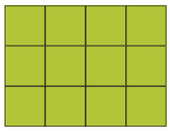


Hlamula swivutiso leswi landzelaka:

Ku na swikwere swingani?

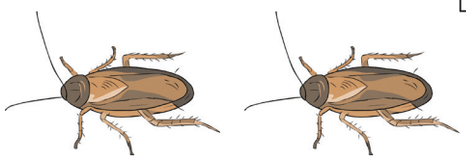


Ku na swikere swingani sweswi?

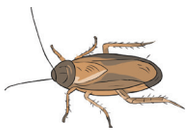


Hi vula leswaku hafu ya 24 i 12.

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

0 1 2 3 4 5 6 7 8 9 10



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	



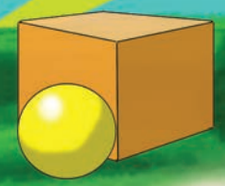
Tatisa nhlamulo leyi faneleke.

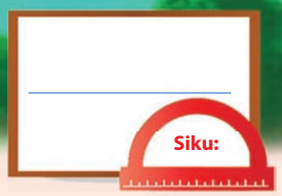
Hafu ya 10 i	5
Hafu ya 12 i	
Hafu ya 14 i	
Hafu ya 16 i	
Hafu ya 18 i	



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

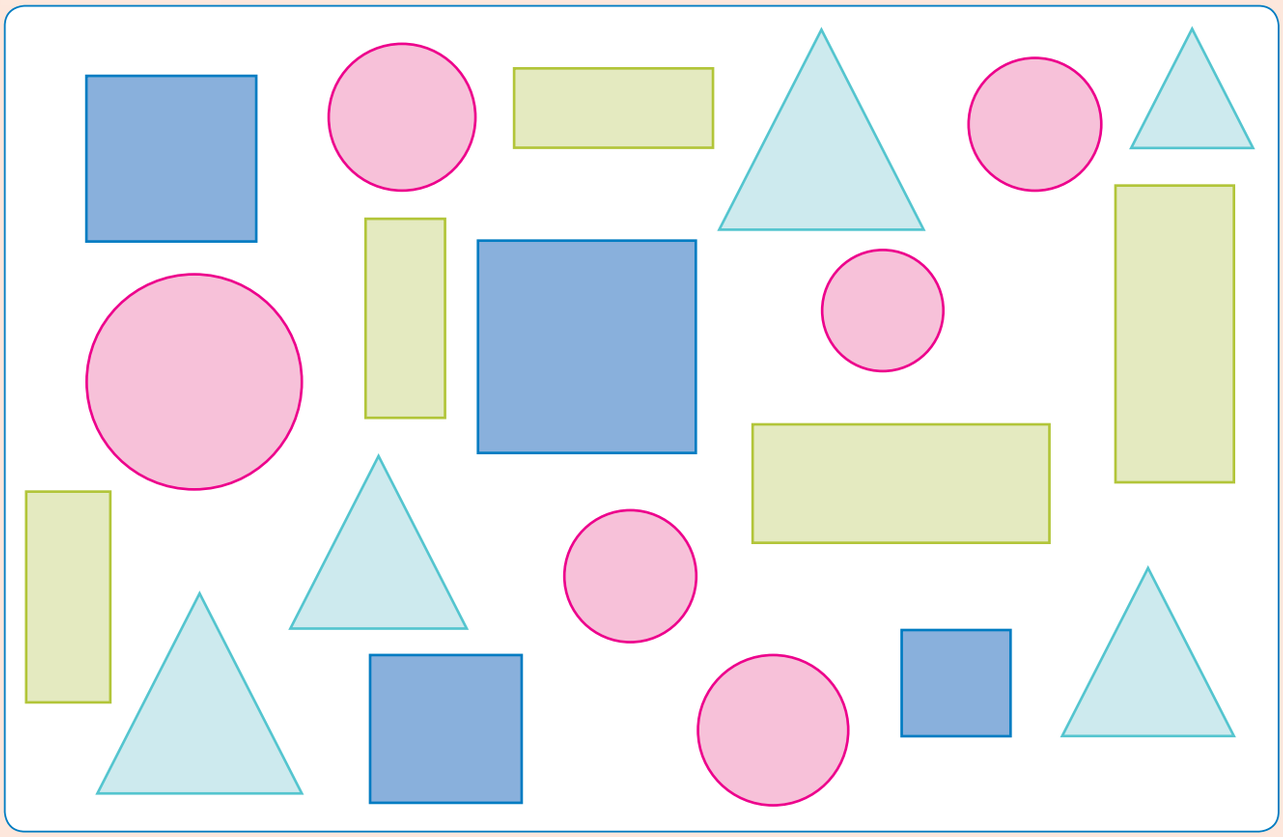




Switiviwa



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

Siku:

Switiviwa swin'wana

Kotara ya 4

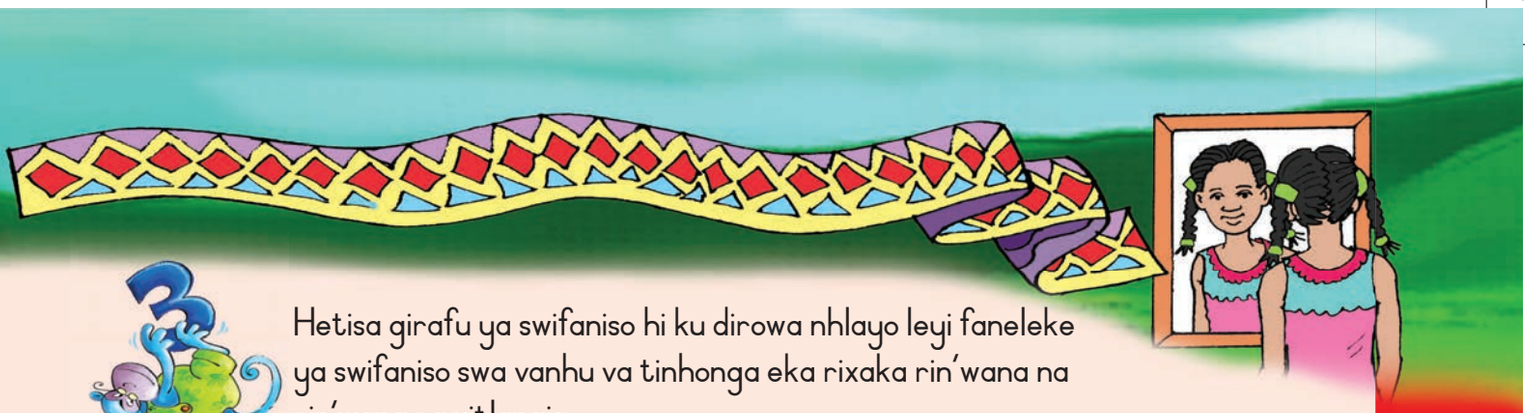
Vana etlilasini va na switlangiso leswi landzelaka.
Va na switlangiso swingani swa rixaka rin'wana na rin'wana?



Hetisa tafula leri landzelaka.

Xitlangiso	Nhlayo
Swipopana	
Swilorana	
Tithedi	
Tirhoboto	

0 1 2 3 4 5 6 7 8 9 10



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.

Xiletelo =

Switlangiso leswi hi nga na swona

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 xihi xitlangiso lexi rhandziwaka swinene?	
Hi xihi xitlangiso lexi nga rhandziwiki?	

Teacher:
Sign:
Date:

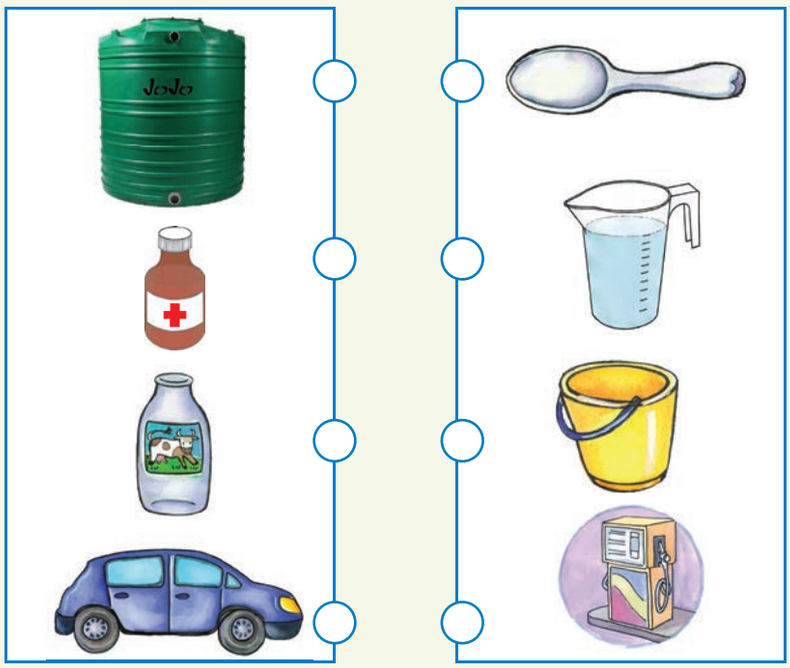
11 12 13 14 15 16 17 18 19 20

Siku:

Vundzeni

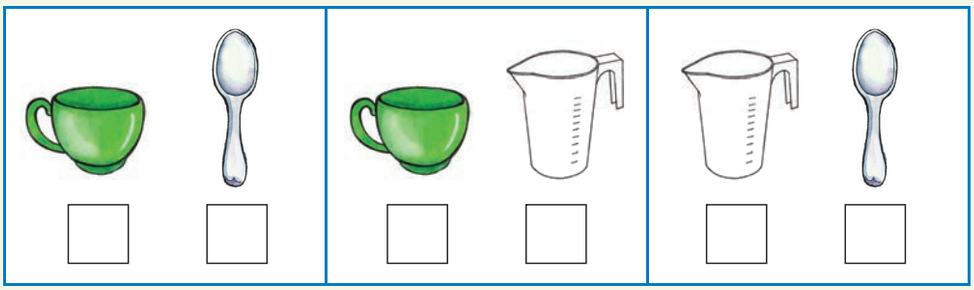


Swihalaki hi swi pimisa ku yini? Dirowa ntila u yelanisa xanchumu na xipimo lexi faneleke.



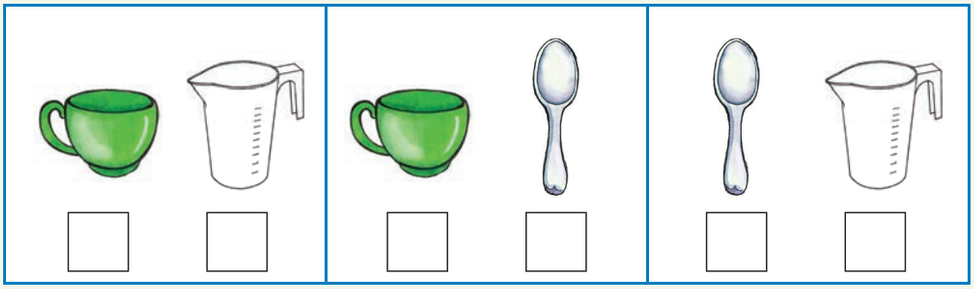


Gwajula xibye lexi khomaka switsongo.



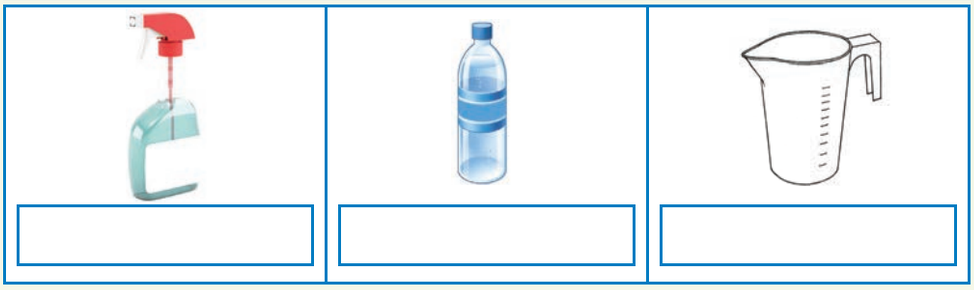


Gwajula xibye lexi khomaka swo tala.





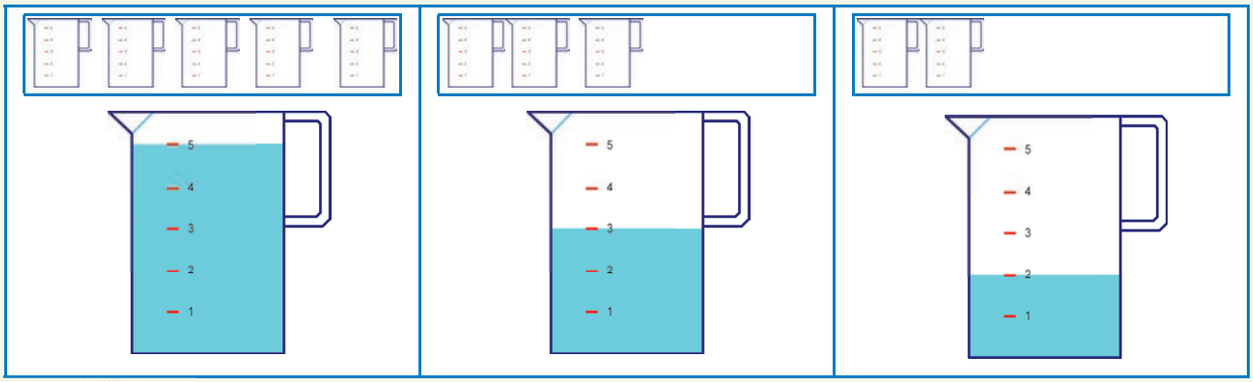
Xana swibye swi tele kumbe swi hava nchumu?



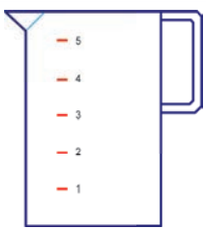
0 1 2 3 4 5 6 7 8 9 10



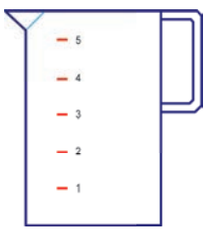
U fanele ku va na tikhapu ta ntlhanu ku kota ku tata jeke yin'we. U fanele ku kuma tikhapu tin'wana tingani leswaku u kota ku tata tijeke tin'wana timbirhi? Ti dirowe.



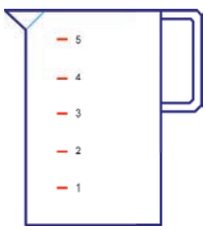
Khalara ntalo wa swihalaki lowu faneleke.



1 + 2 =



2 + 2 =



2 + 3 =

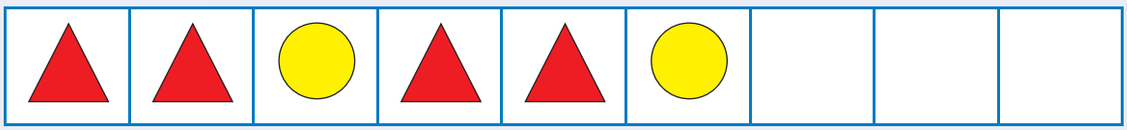
Teacher:
Sign:
Date:

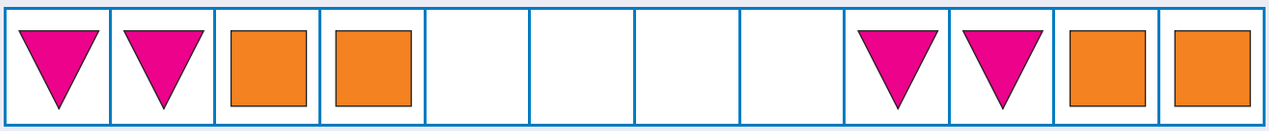
Siku:

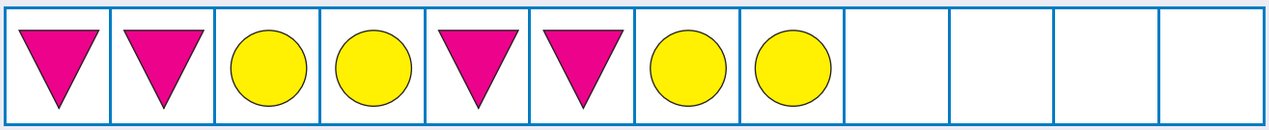
Tipatironi ta jometiri

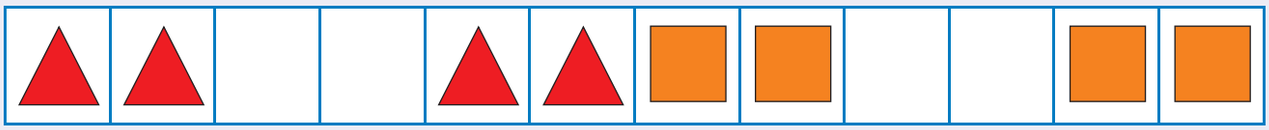


Hetisa tipatironi leti landzelaka.







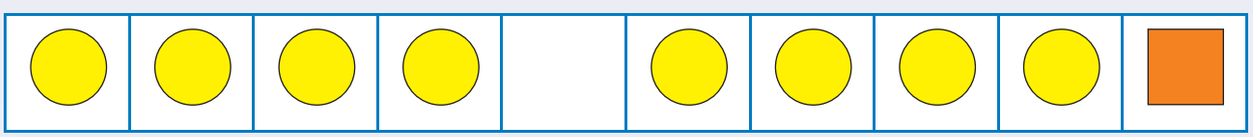


A	B	C	D	A	B	C	D				

A	B	B	A	B	B		B	B	A		

A	B	C	A	B	C				A	B	C

A	D	A	D	A	D			A	D		



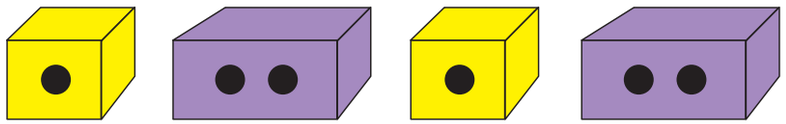
0 1 2 3 4 5 6 7 8 9 10

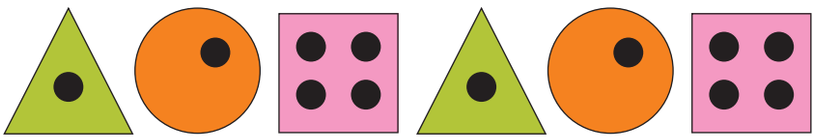
Kotara ya 4

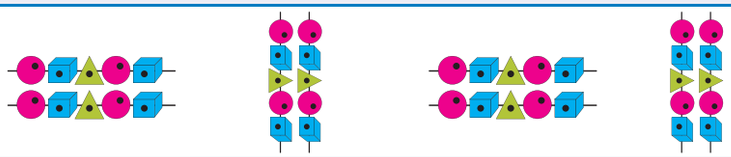


Engetela patironi.











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

Teacher:
Sign:
Date:

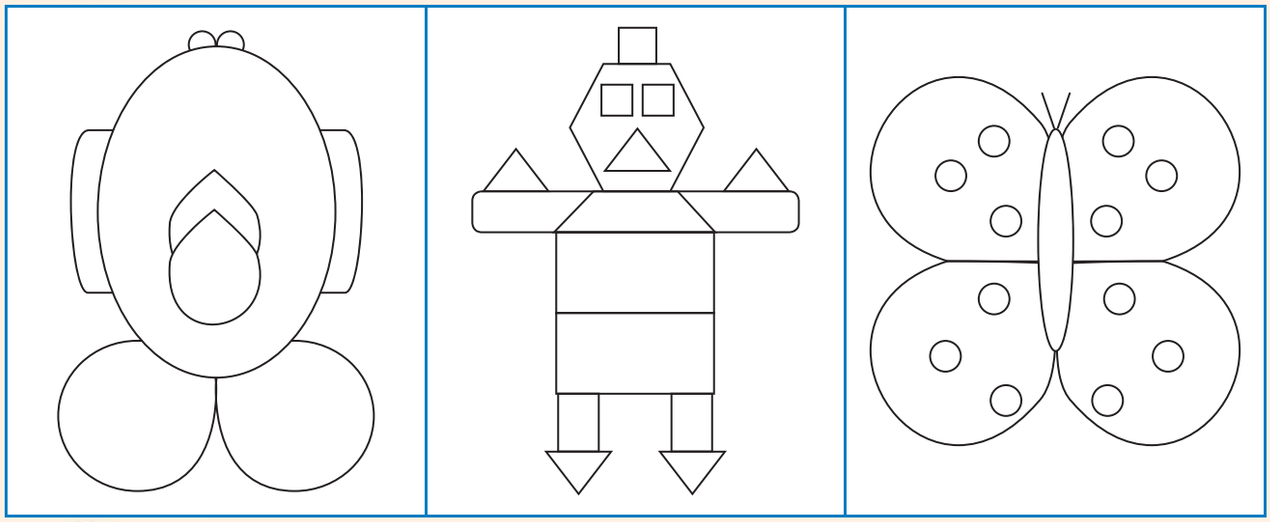
11 12 13 14 15 16 17 18 19 20

Siku:

Ndzingano

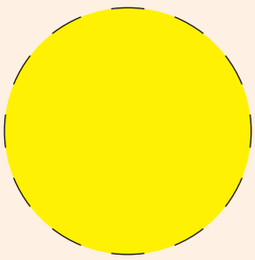


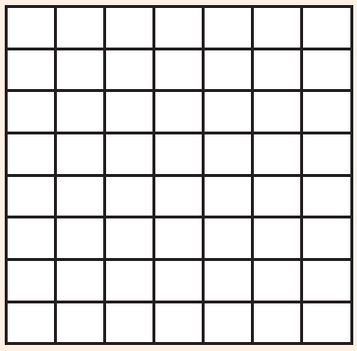
Dirowa ntila wa ndzinganiso lowu avanyisaka xifaniso eka tihafu timbirhi leti ringanaka. Khalara hafu yin'we ya xifaniso xin'wana na xin'wana.



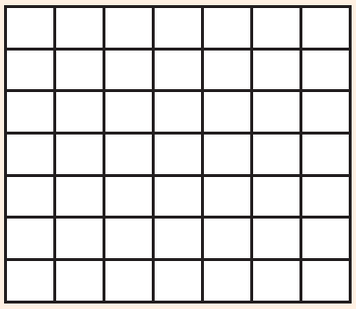


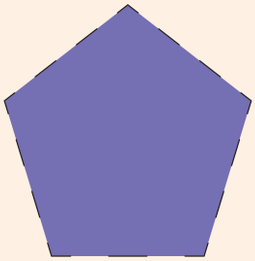
Kopunula swivumbeko u tlhela u dirowa ntila wa ndzinganiso.

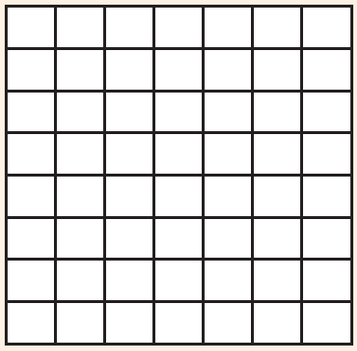








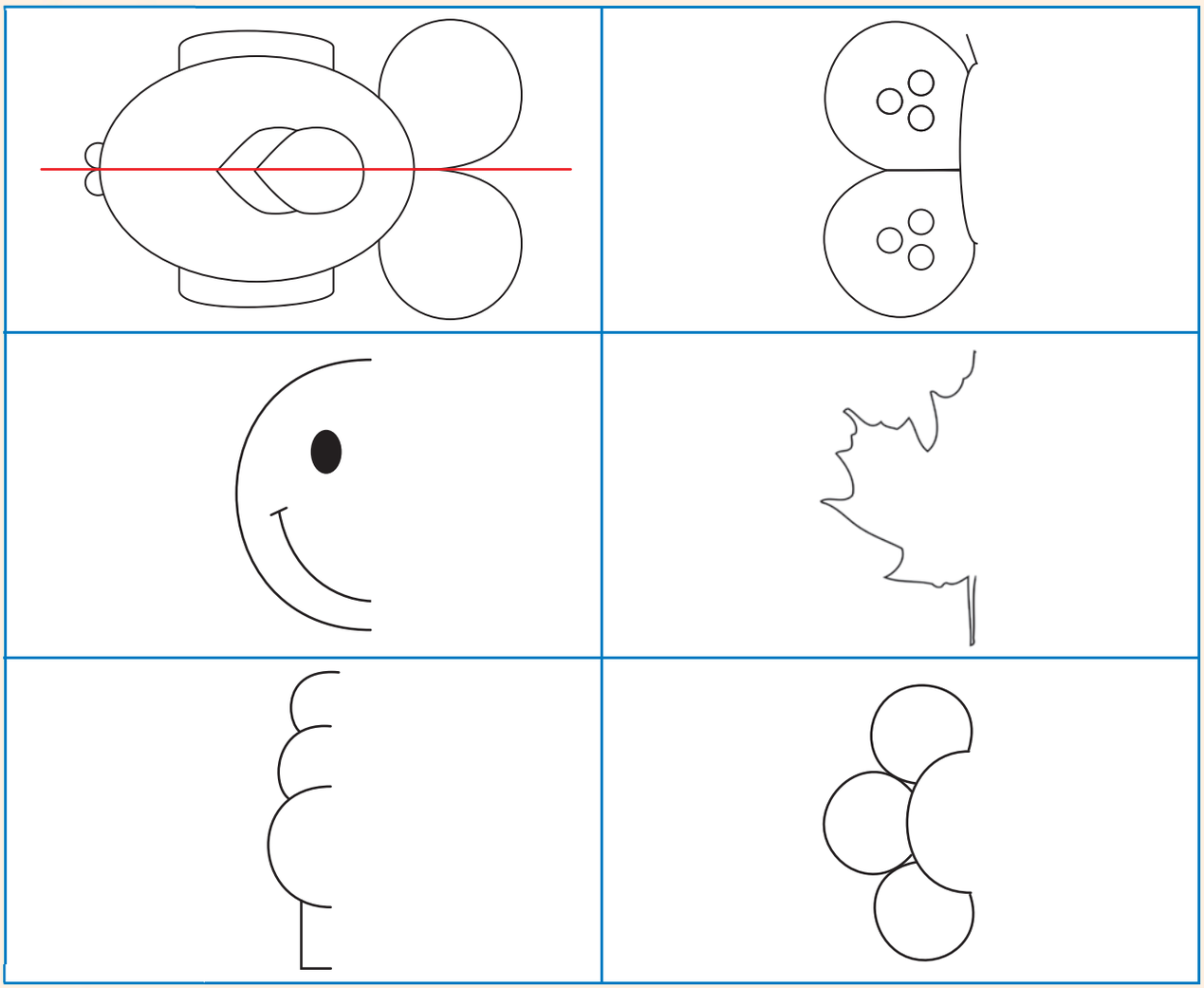




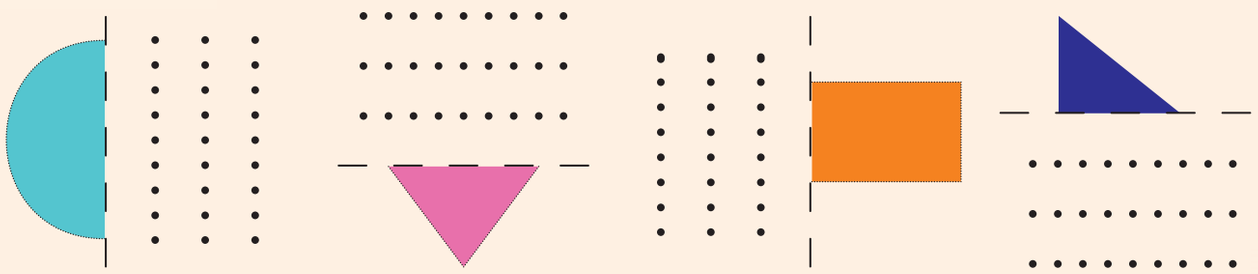
0 1 2 3 4 5 6 7 8 9 10



Hetisa xifaniso hi ku dirowa hafu yin'wana.



Dirowa hafu yin'wana ya xivumbeko.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

Tinotsi



Tinotsi

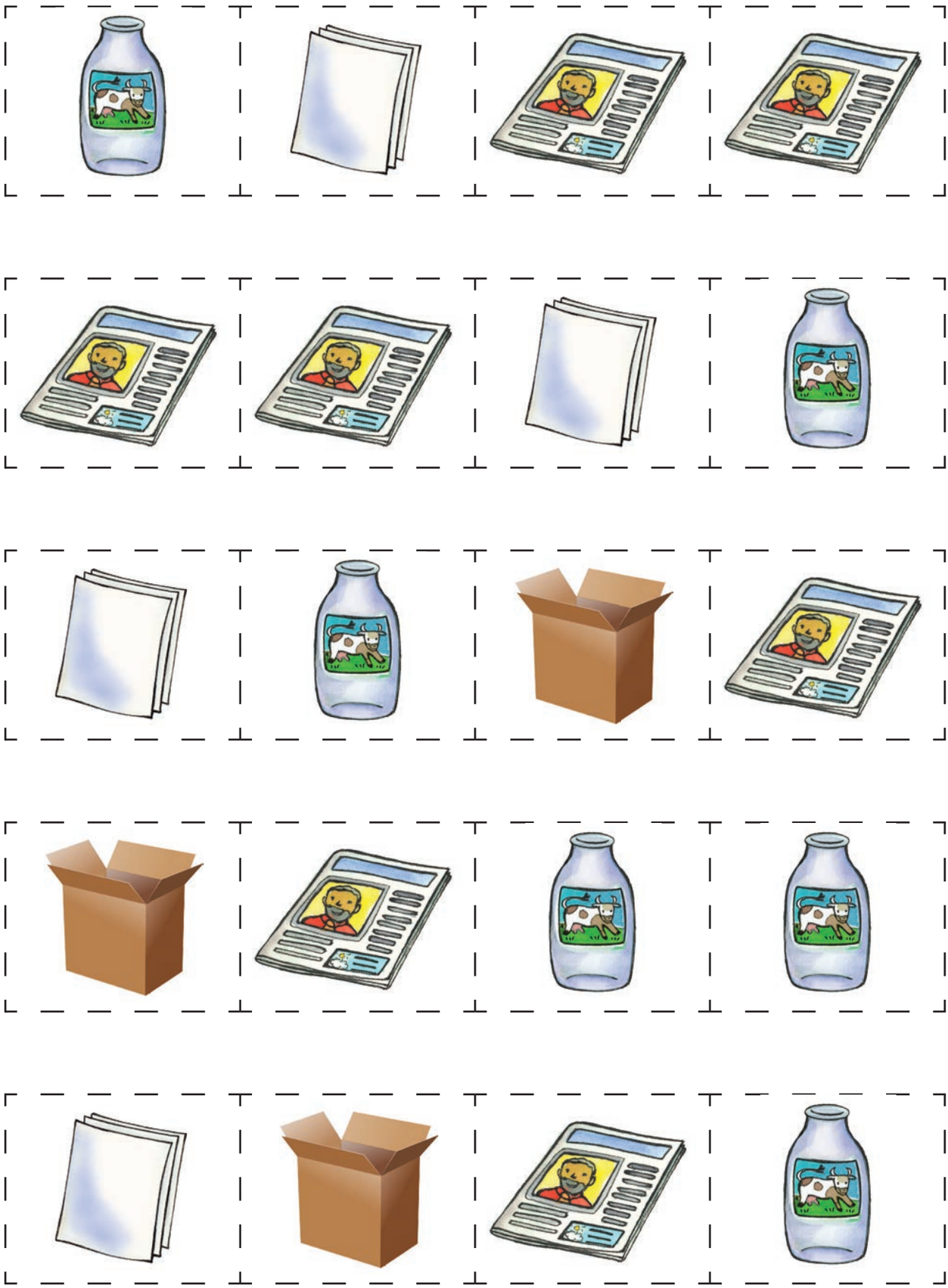


Tinotsi



Cut-out 1

Worksheet 79

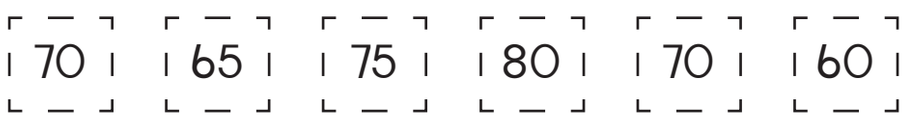


Cut out cards 2

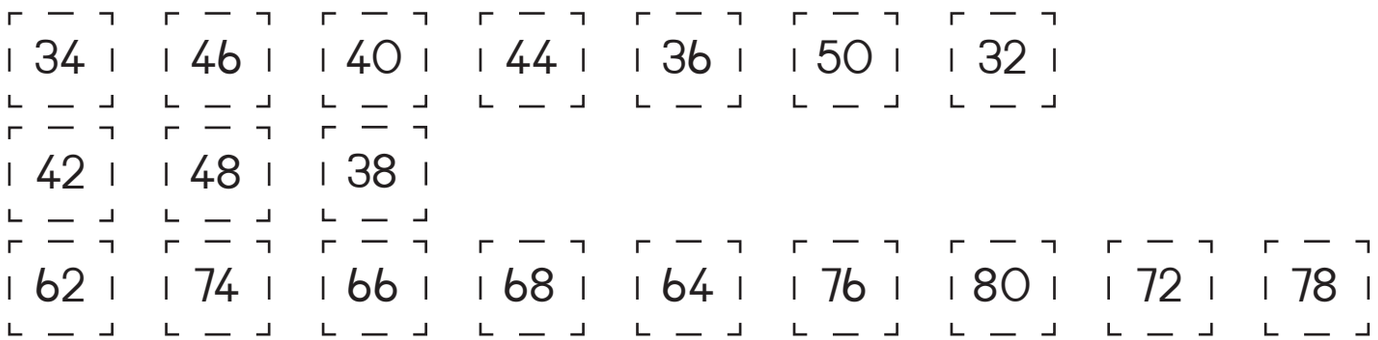
Worksheet 83



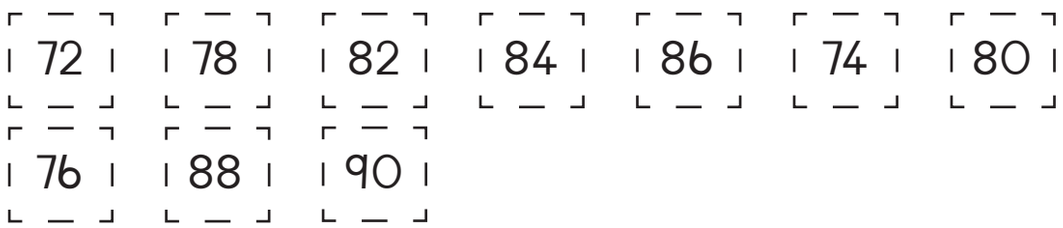
Worksheet 84



Worksheet 93



Worksheet 115



Worksheet 119

