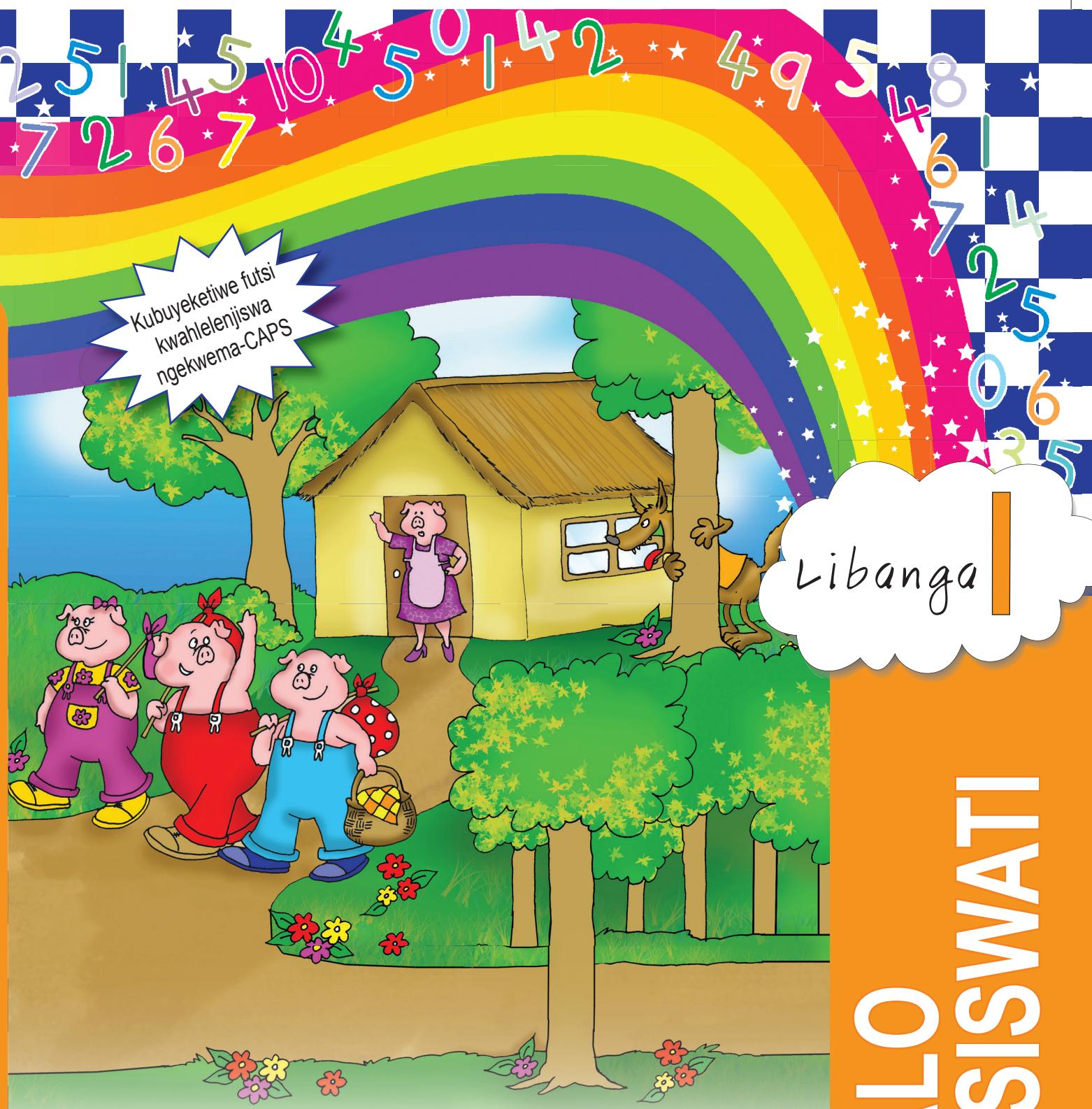


TIBALO NGESISWATI

Incwadzi 2
Emathemu
3 & 4



Ligama:

Likilasi:



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Kufundza ngeMtsetfo Sisekelo weNingizimu Afrika (1996)

UMtsetfo-sisekelo waseNingizimu Afrika (1996) ucuketse imitsetfo lesetu yelive. Lemitseto ingetulu ngisho kwamengameli welite, tinkantolo kanye nahulumende. Ichaza kutsi bantu belive kumele baphatsane njani, nekutsi ayini emalungelo abo kanye nemitfwalo labanayo ngalabanye. UMtsetfo Sisekelo welite ukhonela kusivikela sonkhe nyalo kanye nebantfwabetu ngakusasa.

Kufute sati ngelimuva letfu.	Asingawaphindzi emaphutsa ayitolo.	uMtsetfo Sisekelo usisita kutsi sicabange futsi sakhe likusasa lelihle lakhe wonkhe umuntfu.
------------------------------	------------------------------------	--

Tsine, bantu baseNingizimu Afrika;
Siyakubona kungabi khona kwebulungiswa esikhatsini lesengcile;
Setfulela sigcoko labo labahlunyeta kuze sitfole bulungiswa nenkhululeko eveni letfu;
Sihlonipha labo labasebentile kwakha nekutfufukisa live letfu;
Siyakholwa futsi kutsi iNingizimu Afrika yabo bonkhe labahlala kuyo, sihlangene ngekwhelukahlukana kwefu.
Ngaloko-ke, negetifunyuwa lesitikhetsela tona ngenkhululeko, siyawemukela loMtsetfo-sisekelo njengemtsetfo lophakeme kunayo yonkhe eRiphabhulikhi kuze—
Kupheliwe kwehluvana kwayitolo futsi kwakhie umphakatsi losekelwe yintsandvo yelinentyi, bulungiswa ekuphileni kanye nemalungelo-sisekelo ebuntfu;
Kubekwe sisekelo sempakatsi wentsandvo yelinentyi, longenamifilo lapho khona hulumende abekwe negetifiso tebantu futsi sonkhe sakhamuti ngalokulinganako sivikelwe ngumtsetfo;

Kwentiwe ncono lizinga lemphiyo yetakhamuti tonkhe futsi kukhululwe emakhono emuntfu ngamunye; futsi

Kwakhie iNingizimu Afrika lehlangene futsi yentsandvo yelinentyi lekwayi kutsatsa indzawo yayo leiyiyifanele njengelive lelitibusako njengawo onkhe emave latibusako.

Nkulunkulu akabusise bantu bakitsi
Nkosi Sikele'l-i-Afrika. Morena boloka setjhaba sa heso.
God seën Suid-Afrika. God bless South Africa.
Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.

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4 5 0 * 2 5 1 * 4 5 10 4 5 0 1 4 2 * 4 9 5 4 8 * 6 1 *



Nkhskt. Angie Motshekga,
iNdvuna yeMfundvo
yeSisekelo



UMnu. Enver Surty,
liphini leNdvuna yeMfundvo
yeSisekelo

Letincwadzi tekusebentela tikhicitelwe bantfwana baseNingizimu Afrika ngekuholwa yiNdvuna yeTemfundvo yeSisekelo. Nkhskt Angie Motshekga akanye neLiphini lakhe uMnu Enver Surty.

LeTincwadzi Tekusebentela takaRainbow tiyincenyе yemitamo yaleLitiko leTemfundvo yeSisekelo yekutfutfukisa bafundzi baseNingizimu Afrika emabangenи ekucala lasitfupha ekufundza. Njengalomunye wemigomo lehamba embili eLuhlelweni lweKusebenta lwaHulumende, lomsebenti ukhokhelwe ngesihle Silulu seTimali saVelonkhe. Ngenca yalokusekelwa ngetimali, leLitiko leTemfundvo liphumelele kwakha letincwadzi ngato tonkhe letilwimi letisemtsetfweni kulelive.

Siyetsema kutsi bothishela batatitfola tilusito kakhulu letincwadzi tekusebentela basafundzisa malanga onkhe kute bafundzi bakhone kucedza luhlelo lwabo lwekufundza. Setame, ngekucophelela lokukhulu, kusita thishela kuleyo naley ncenye yemsebenti, ngekusebentisa timphawu letitifombe kukhombisa umfundzi loko lokumele akwente.

Siyetsema bantfwana nabo batakujabulela kusebentisa letincwadzi basachubeka nekukhula nekufundza; nekutsi bothishela batawutfokota kanye nabo.

Sifisela bothishela nebafundzi imphumelelo basachubeka nekusebentisa letincwadzi tekusebentela.



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Libanga



T i b a i o

NGESISWATI

Lencwadzi ya:



SISWATI

Incwadzi

2

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

65



Ithemu 3

Condzisisa inombolo II

Sibuyeketo:

Tifundzise kubhala letinombolo.



kunye

I I

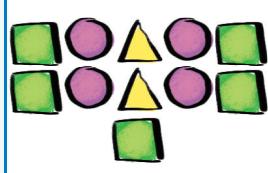
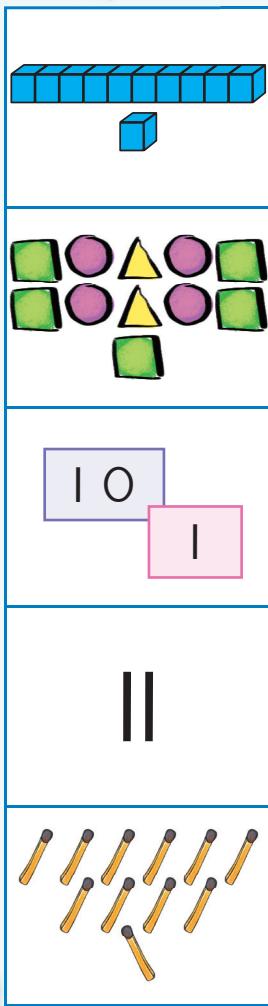


kibili

2 2



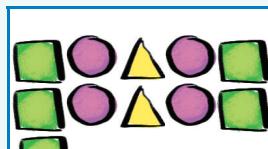
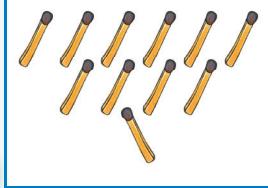
Condzanisa letitfombe.



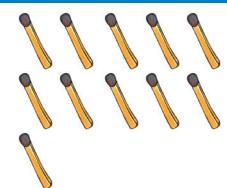
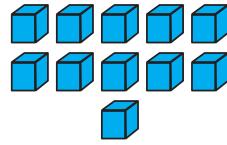
10

I

II



III



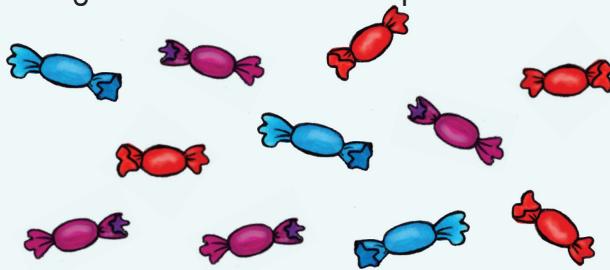
10

I



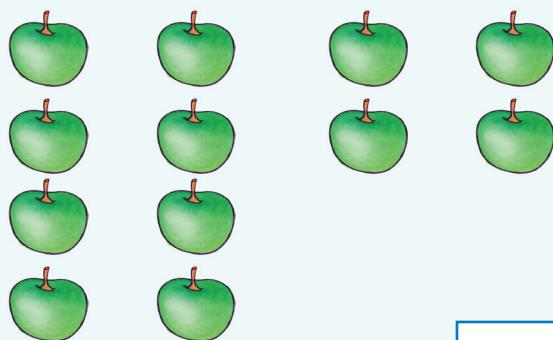
Biyela letintfo.

Biyela emaswidi lali-10 kuphela.



Mangaki emaswidi lasele?

Biyela emahhabhula lali-10 kuphela.



Mangaki emahhabhula lasele?



2

0

1

2

3

4

5

6

7

8

9

10



Tsatsisa letinombolo.

lishumi—nanye				



Luhlu ngalunye
kufute luhlanganise
kufike ku ||.
Gcwalisa letinombolo
letishiyiwe.

3	5	4
4	5	
4		2



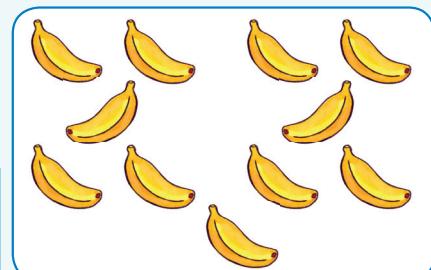
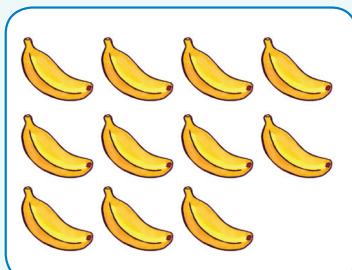
Dweba li-|| letintfo.



Gcwalisa letinombolo letishiyiwe.



Bala letintfo.



Cedzela lithebula. Luhele ngalunye lunesitfombe,
inombolo neligama laleyo nombolo.

 		lishumi-nanye
		lishumi-nanye
	lishumi—nanye	



Ngubani kunye
ngaphasi kweli-||? _____

Ngubani kunye
ngetulu kweli-||? _____



Teacher:
Sign:

Date:

|| 12 13 14 15 16 17 18 19 20



66



Ithemu 3

Condzisia inombolo 12

Sibuyeketo:

Tifundzise kubhala letinombolo.



kutsatfu

3 3

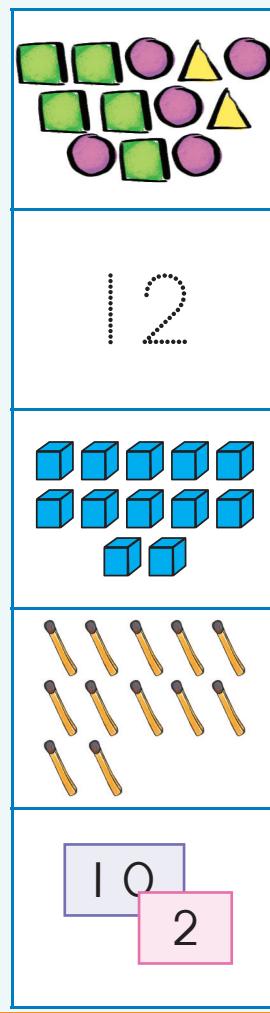
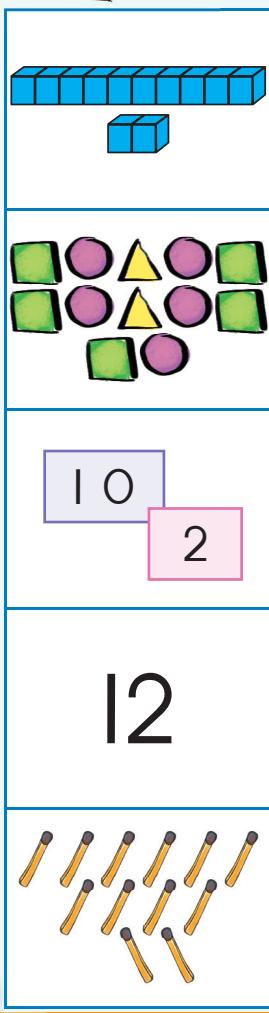


kune

4 4



Condzanisa letitfombe.



Biyela letintfo.

Biyela ticatfulo letili-10 kuphela.



Tingaki ticatfulo letisele?



Biyela emagobongo elwandle lali-12 kuphela.



Mangaki emagobongo elwandle lasele?



4

0

1

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Tsatsisa letinombolo.

12	12	12	12
----	----	----	----

lishumi-nambili

12	12	12	12
----	----	----	----

Luhlu ngalunye
kufute luhlanganise
kufike ku 12.
Gcwalisa letinombolo
letishiyiwe.

	7	6
4		4
3	2	
12	12	12



Dweba li-12 letintfo.



Gcwalisa letinombolo letishiyiwe.

3			5			
8				11		

3			5			
8				11		



Bala letintfo.



Cedzela lithebula. Luhele ngalunye lunesitfombe,
inombolo neligama laleyo nombolo.

		lishumi-nambili
	12	lishumi-nambili
		12
lishumi-nambili		



Ngubani kunye
ngaphasi kweli-12? _____

Ngubani kunye
ngetulu kweli-12? _____



Teacher:

Sign:

Date:



67



Ithemu 3

Condzisia inombolo 13

Sibuyeketo:

Tifundzise kubhala letinombolo.



sihlantu

5 5

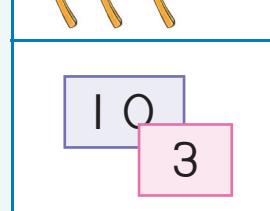
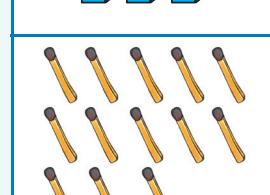
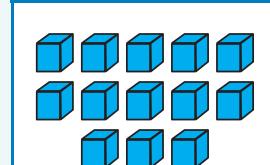
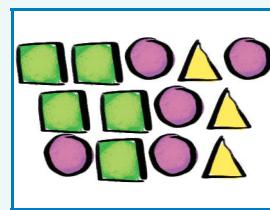
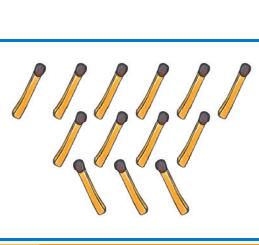
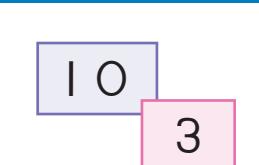
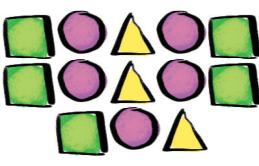
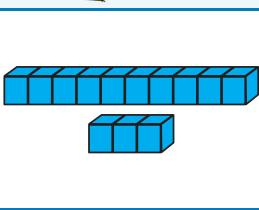


sitfupha

6 6

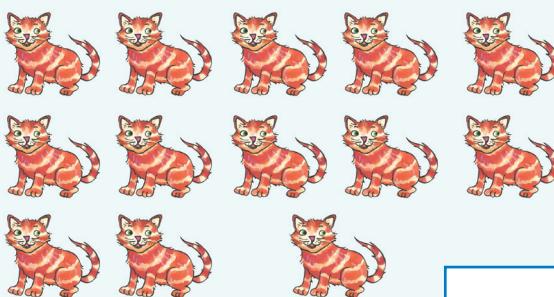


Condzanisa letitfombe.



Biyela letintfo.

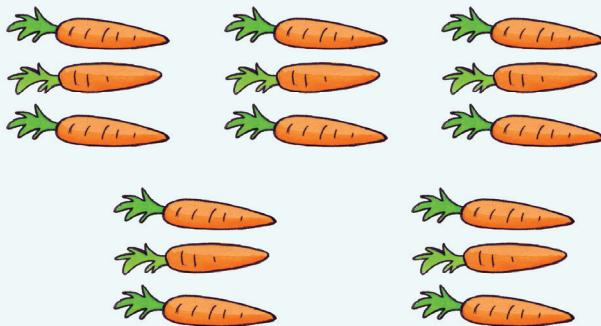
Biyela emakati lali - 10 kuphela.



Mangaki emakati laselle?



Biyela ticadze letili - 13 kuphela.



Tingaki ticadze letisele?



0

1

2

3

4

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8

9

10



Tsatsisa letinombolo.

	3		3		3		3
--	---	--	---	--	---	--	---

l	ishumi	-	nantsat	f	u
---	--------	---	---------	---	---

	3		3		3		3
--	---	--	---	--	---	--	---

Luhlu ngalunye
kufute luhlanganise
kufike ku |3.
Gcwalisa letinombolo
letishiyiwe.

1	2	6
1		
	3	2
3	3	3



Dweba li-|3 letintfo.

Manje tidvwebe ngendlela leyehlukile.

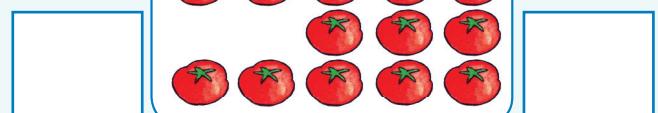
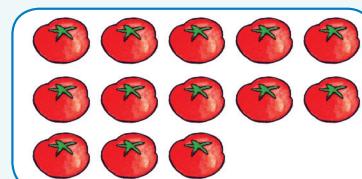


Gcwalisa letinombolo
letishiyiwe.

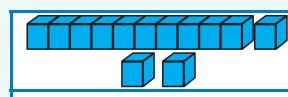
	10		12	
--	----	--	----	--



Bala letintfo.



Cedzela lithebula. Luhele ngalunye lunesitfombe,
inombolo neligama laleyo nombolo.



lishumi-nantsatfu

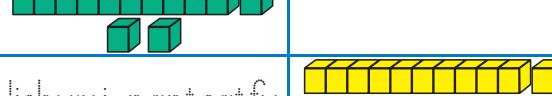


|3

lishumi-nantsatfu



|3



lishumi-nantsatfu

Ngubani kunye
ngaphasi kweli-|3? _____

Ngubani kunye
ngetulu kweli-|3? _____

Teacher:
Sign:
Date:



68



Ithemu 3

Condzisisa inombolo 14

Sibuyeketo:

Tifundzise kubhala letinombolo.



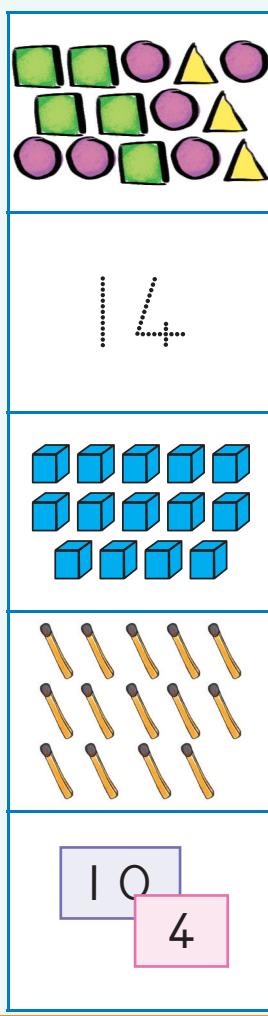
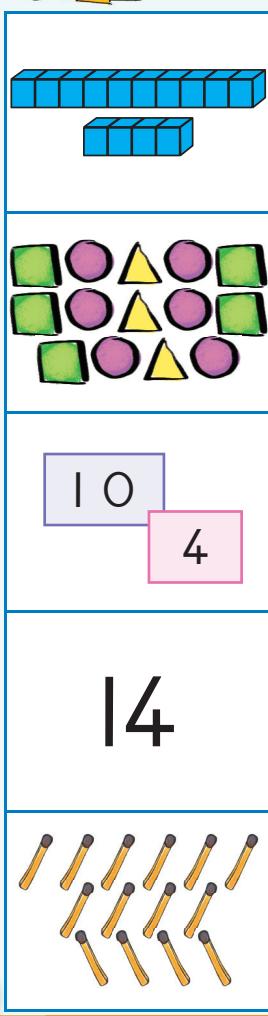
7 7



8 8



Condzanisa letitfombe.



Biyela letintfo.



Mangaki emavivane lasele?

Biyela emaloko lali-14 kuphela.



Mangaki emaloko lasele?



0 1 2 3 4 5 6 7 8 9 10



Tsatsisa letinombolo.

14	14	14	14
----	----	----	----

lishumi-nane

14	14	14	14
----	----	----	----



Dwweba li-14 letintfo.

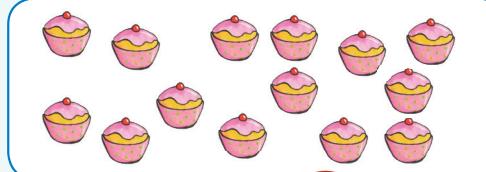


Luhlu ngalunye
kufute luhlanganise
kufike ku 14.
Gcwalisa letinombolo
letishiyiwe.

1		2
	5	1
3	2	
14	14	14



Bala letintfo.



Cedzela lithebula. Luhele ngalunye lunesitfombe,
inombolo neligama laleyo nombolo.

	14	lishumi-nane
14		
	lishumi-nane	



Ngubani kunye
ngaphasi kweli-14? _____

Ngubani kunye
ngetulu kweli-14? _____



69



Lusuku:

Ithemu 3

Condzisisa inombolo 15

Sibuyeketo:

Tifundzise kubhala letinombolo.



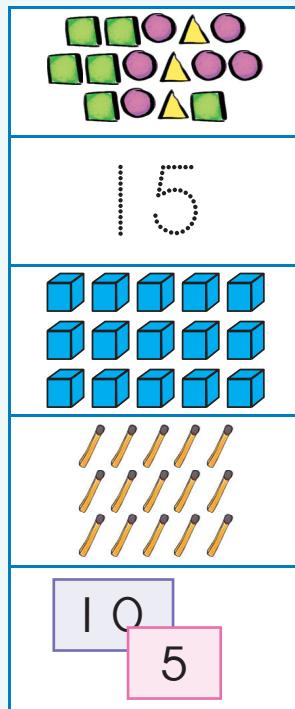
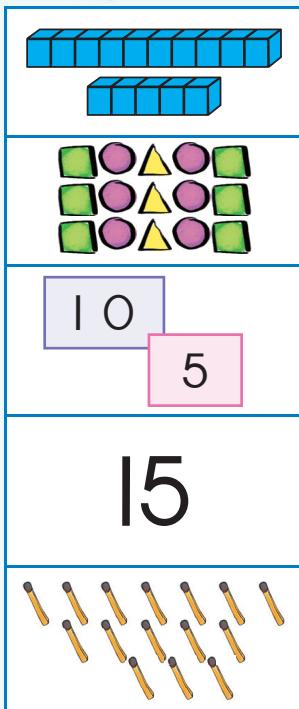
q q



10 10

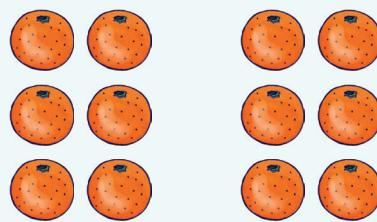


Condzanisa letitfombe.



Biyela letintfo.

Biyela ema-orientji lali-10 kuphela.



Mangaki ema-orientji lasele?

Biyela tinkhanyeti letili-15 kuphela.



Tingaki tinkhanyeti letisele?



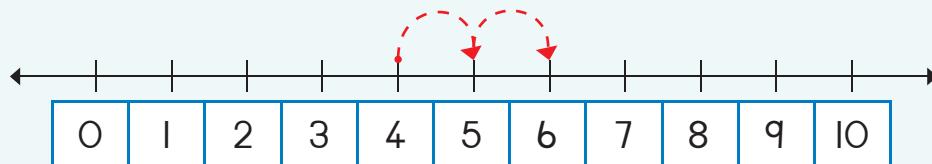
Gcwalisa timphendvulo.



$7 + 2 =$



0 2 3 4 5 6 7 8 9 10



$$4 + 2 =$$



Tsatsisa letinombolo.

15 15 15 15

lishumi–nesihlanu

15 15 15 15



Gewalisa letinombolo letishiyije.

7

11

12

13

15

15

13

12



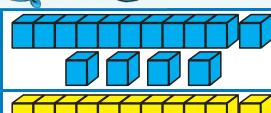
Bala letintfo.







Cedzela lithebula. Luhele ngalunye lunesitfombe,
inombolo neligama laleyo nombolo.



15

lishumi–nesihlanu



lishumi–nesihlanu



15



Ngubani kunye
ngaphasi kweli-15? _____

Ngubani kunye
ngetulu kweli-15? _____

Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

70



Lusuku:

Kuhlanganisa kufika ku 20 – Kubala uchubeke

Ithemu 3

Sibuyeketo:

Tifundzise kubhala ligama nombolo.

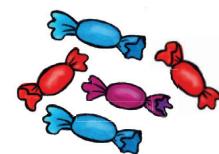
6

sitfupha



Bukisia lesitfombe bese ubhala umusho wangakunye ngakunye.

Lisa unemaswidi lama-3. Mandla
unemaswidi lasi-5. Mangaki emaswidi
labanawo sekawonkhe?



Ase sibale:

3	...	4	5	6	7	8
<input type="text"/>		<input type="text"/>				
		+		<input type="text"/>	=	<input type="text"/>

Benginetimabula letisi-8 ngase
ngilahlekelwa timabula leti-4 tato.
Tingaki timabula lengisele nato?

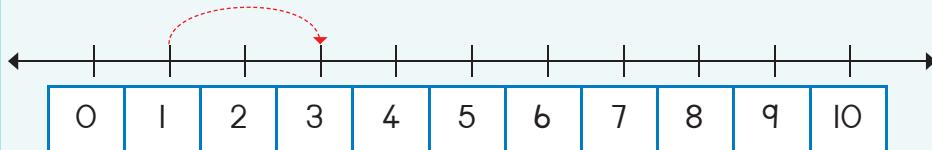


Ase sibale siye emuva:

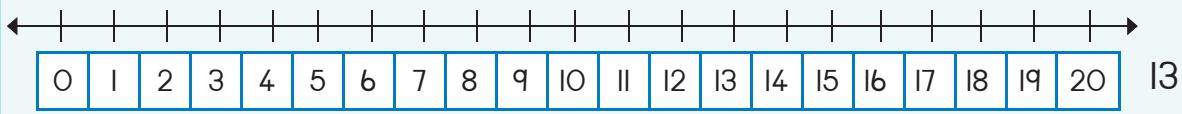
8	...	7	6	5	4	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
		-		<input type="text"/>	=	<input type="text"/>



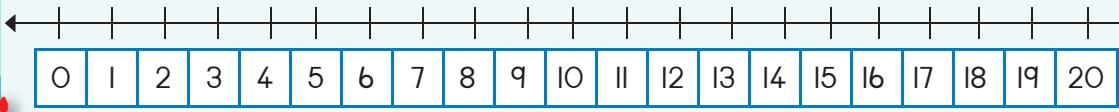
Gcwalisa timphendvulo.



$1 + 2 = \boxed{}$



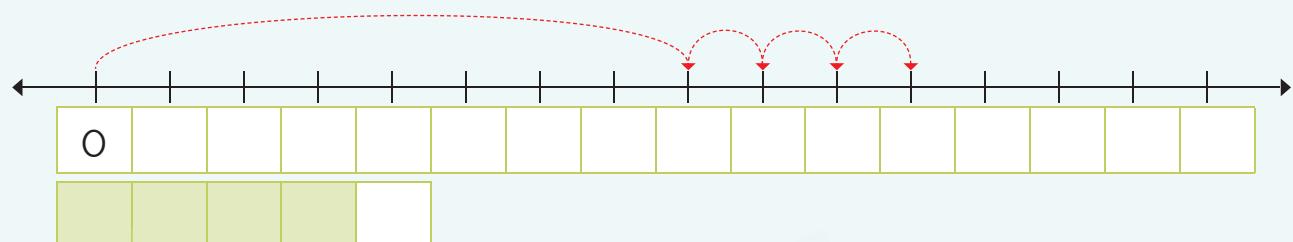
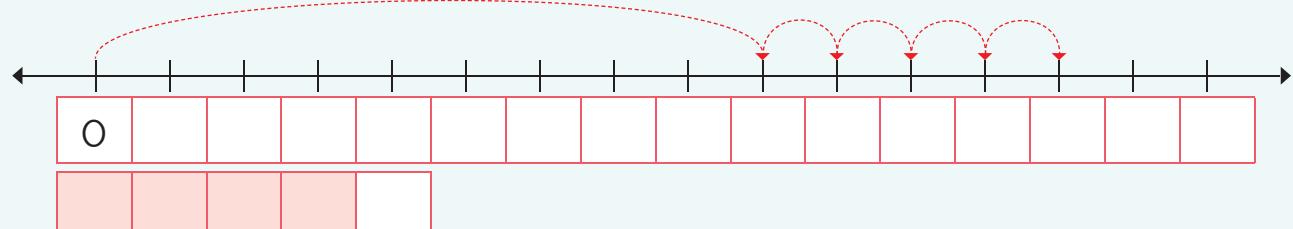
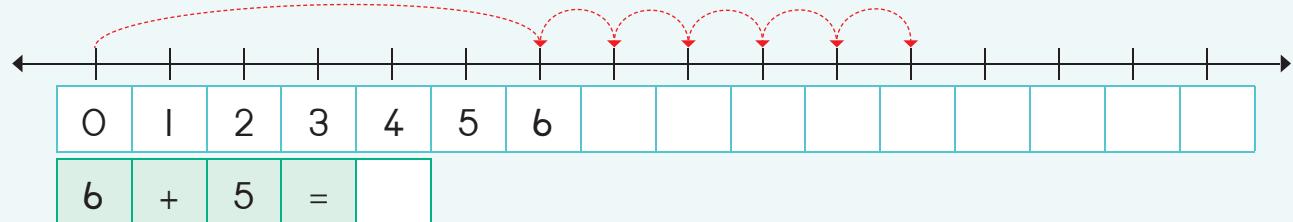
$13 + 2 = \boxed{}$



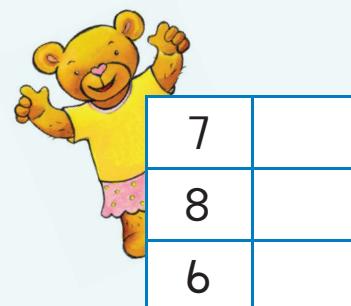
$15 + 2 = \boxed{}$



12 0 | 2 3 4 5 6 7 8 9 10



3	5
4	
2	

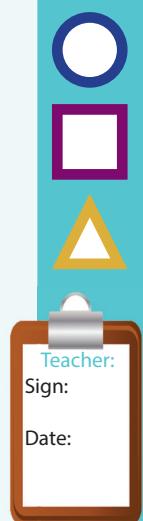
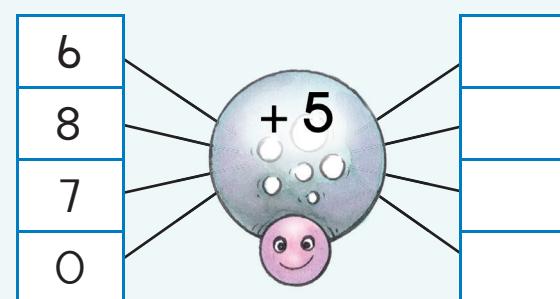


Ngineminyaka lesi - 7 budzala. Ngitabe nginganani eminyakeni lesi - 5 letako?

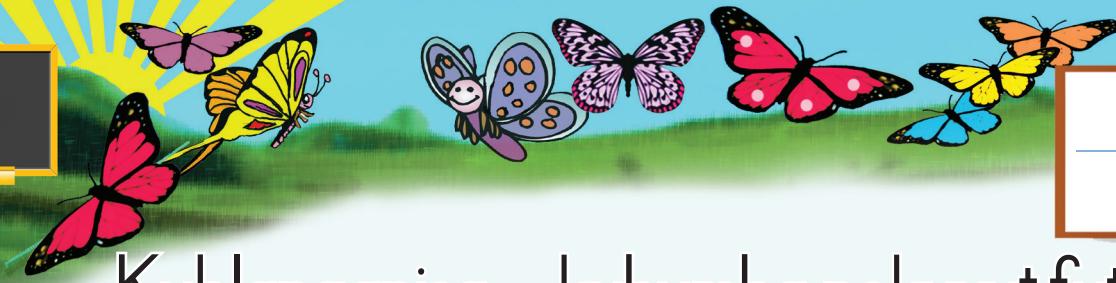
7

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

Ngitabe ngine _____ weminyaka.



71



Kuhlanganisa – kubumba nekuvutfuta tinombolo kufika ku 10

Ithemu 3

Sibuyeketo:

Tifundzise kubhala ligama nombolo.

7

sikhombisa



Gcwalisa imphendvulo.

$3 + 3 = \square$



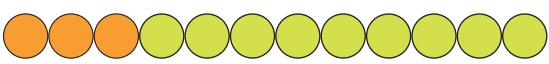
$0 + 5 = \square$



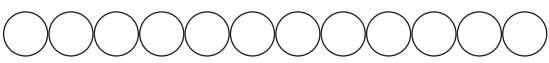
$3 + 2 + 1 = \square$

Faka umbala kukhombisa loku
lokulandzelako.

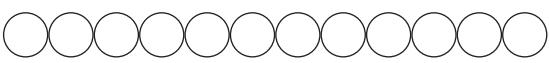
$3 + 9$



$4 + 8$



$5 + 7$



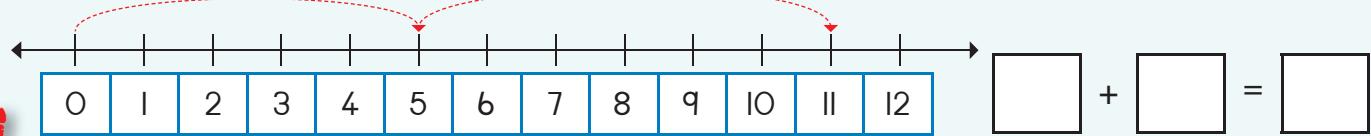
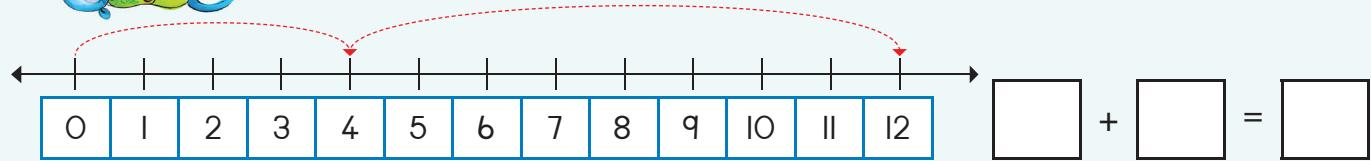
$6 + 6$



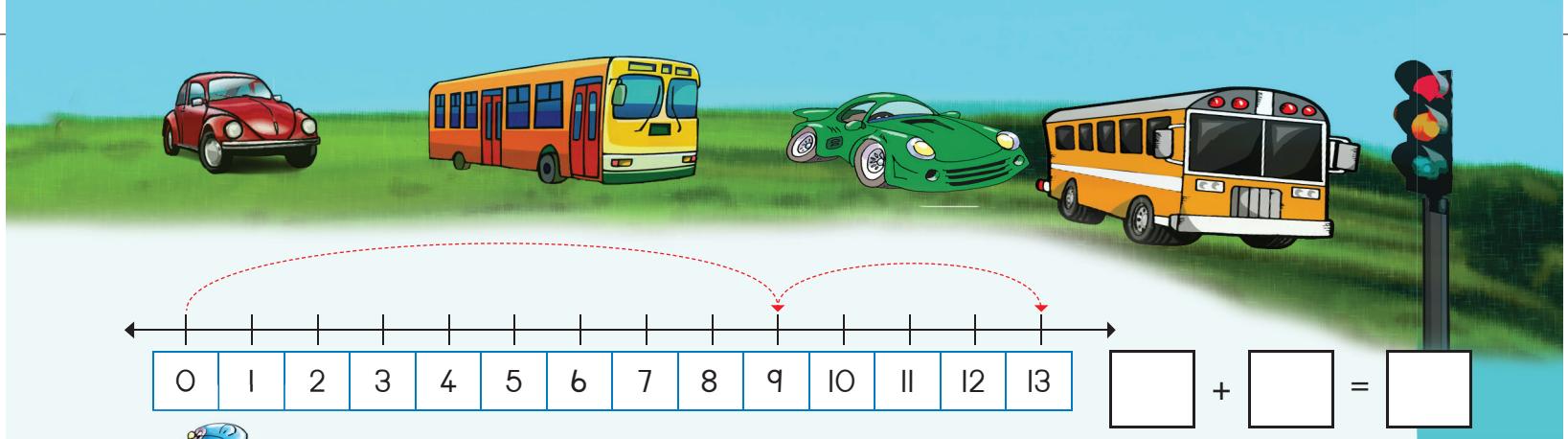
$7 + 5$



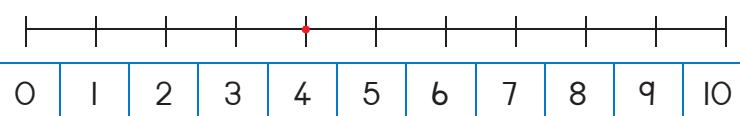
Bhala sibalo saloku:



0 | 2 3 4 5 6 7 8 9 10



Cedzela lomugca-nombolo bese ugcwalisa imphendvulo.



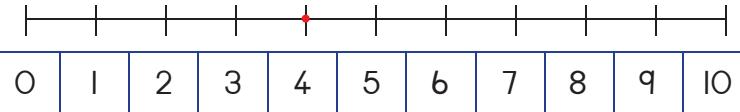
$$4 + 5 + 1 = \boxed{}$$



$$3 + 3 + 2 = \boxed{}$$



$$2 + 4 + 3 = \boxed{}$$



$$4 + 3 + 2 = \boxed{}$$



Sombulula loku lokulandzelako ngekudvweba letitfombe.

Nginesi -5 setimabula kantsi umngani wami unesi -8. Tingaki timabula lesinato sesisonkhe?

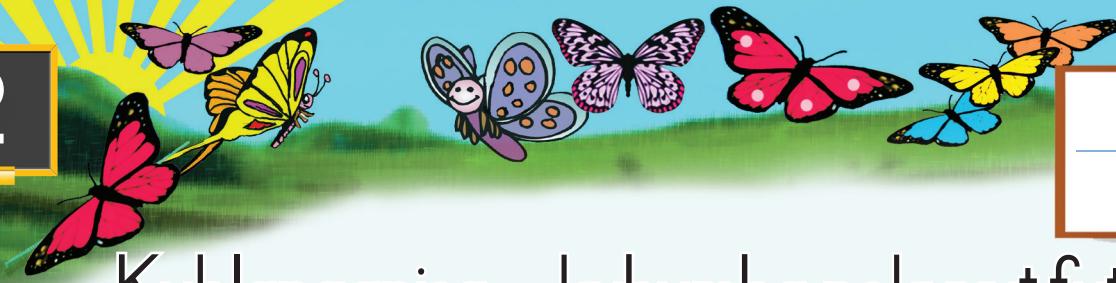
$$\boxed{} + \boxed{} = \boxed{}$$

Ngitfole i-9 yetimabuli tathishela wetfu kantsi umngani wami utfole letisi -6. Tingaki timbali lesititfolile setitonkhe?

$$\boxed{} + \boxed{} = \boxed{}$$



72



Ithemu 3

Kuhlanganisa – kubumba nekuvutfuta tinombolo kufika ku 20

Sibuyeketo:

Tifundzise kubhala ligama nombolo.

8

siphohlongo

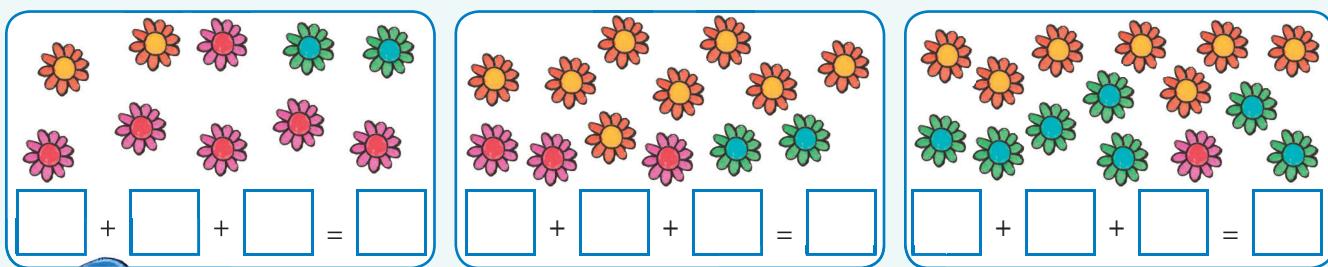
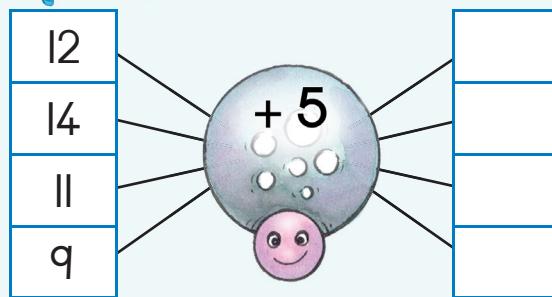


Gcwalisa imphendvulo.

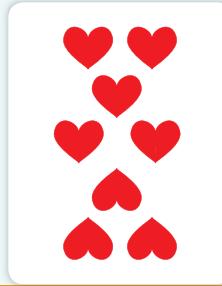
$0 + 2 =$		$2 + 2 =$		$4 + 2 =$		$6 + 2 =$		$8 + 2 =$	
$10 + 2 =$		$12 + 2 =$		$14 + 2 =$		$16 + 2 =$		$18 + 2 =$	



Sebentisa imibala leyehlukene yetimbali kwakha yakakho imisho-nombolo.

Sita bulembu kucedzela
letibalo.

Tingaki tinhltiyo?



Yenta sibalo sakakho.

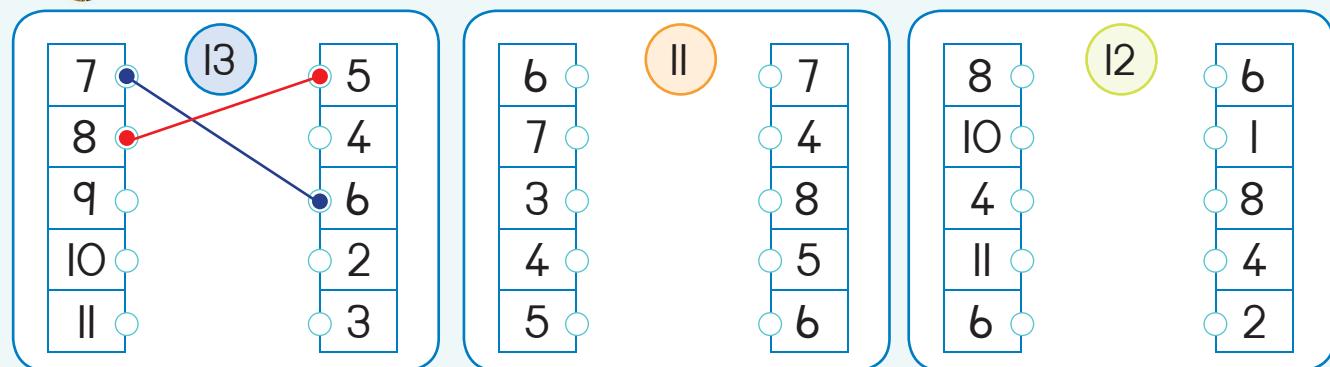
$$\boxed{\quad} + \boxed{\quad} = \boxed{\quad}$$



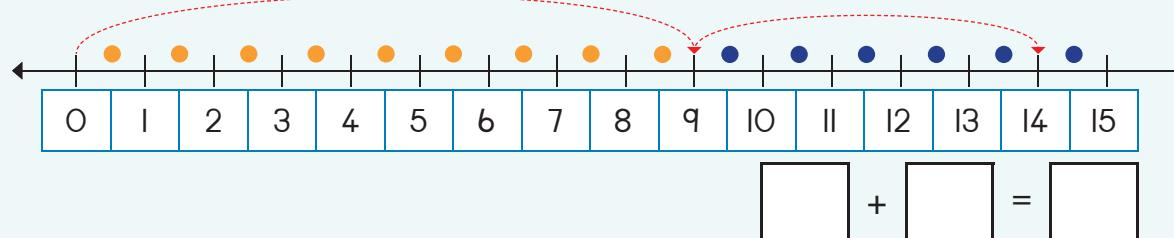
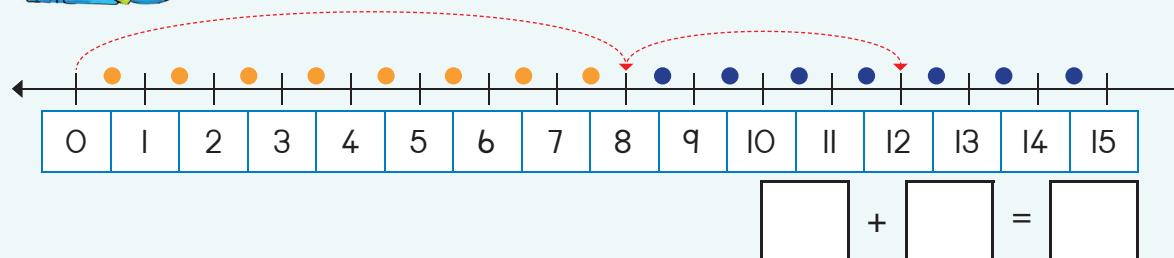
16 0 | 2 3 4 5 6 7 8 9 10



Condzanisa lamaphahla etinombolo kwakha letinombolo letilandzelako.



Bhala umusho nombolo waloku:



Sibuyeketo:

Sibuyeketo: Faka umbala emphendvulweni lengiyo.



licala langembili
licala langemuva
licala laseceleni



licala langembili
licala langemuva
licala laseceleni



licala langembili
licala langemuva
licala laseceleni



licala langembili
licala langemuva
licala laseceleni

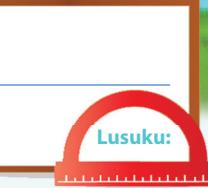


Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

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Kuhlanganisa nekususa – kubumba nekuvutfuta

Ithemu 3

Sibuyeketo:

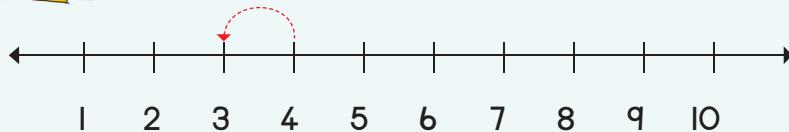
Tifundzise kubhala ligama nombolo.

9

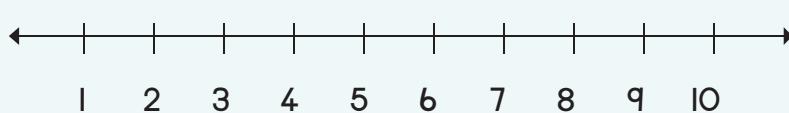
imfica



Gcwalisa imphendvulo.



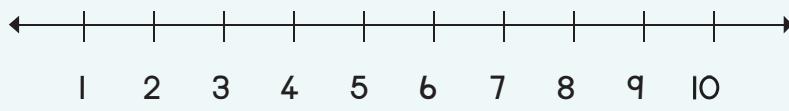
$$4 - 1 =$$



$$5 - 3 =$$



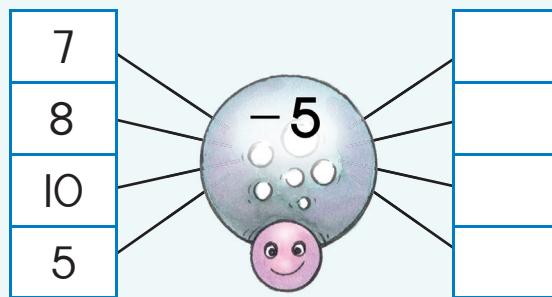
$$4 - 2 =$$



$$5 - 2 =$$



Sita bulembu kucedzela
letibalo.



Tingaki tinhlitiyo?



Yenta sibalo sakakho.

$$\boxed{} + \boxed{} = \boxed{}$$



18

0 1 2 3 4 5 6 7 8 9 10



Bala kahle loku lokulandzelako.

$$\begin{array}{r} 7 \\ + \quad 4 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 7 \\ + \quad 4 \\ + \quad 1 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 10 \\ + \quad 1 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 6 \\ + \quad 6 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 6 \\ + \quad \boxed{} \\ + \quad \boxed{} \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 10 \\ + \quad \boxed{} \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 13 \\ - \quad 6 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 13 \\ - \quad 3 \\ + \quad 3 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 10 \\ - \quad 3 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 12 \\ - \quad 8 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 10 \\ - \quad \boxed{} \\ + \quad \boxed{} \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{r} 10 \\ - \quad 3 \\ \hline \end{array} = \boxed{}$$



Bhala timphendvulo futsi uface umbala bese uyadvweba.

$8 + 6 = \boxed{}$ <p>Loku singabuye sikukhombise kanje:</p> $(8 + 2) + 4 = \boxed{} \rightarrow 10 + 4 = \boxed{}$	$15 - 7 = \boxed{}$ <p>Loku singabuye sikukhombise kanje:</p> $(15 - 5) - 2 = \boxed{} \rightarrow 10 - 2 = \boxed{}$
$9 + 4 = \boxed{}$ <p>Loku singabuye sikukhombise kanje:</p> $(9 + 1) + 3 = \boxed{} \rightarrow \boxed{} + 3 = \boxed{}$	$14 - 5 = \boxed{}$ <p>Loku singabuye sikukhombise kanje:</p> $(\quad - \quad) - 1 = \boxed{} \rightarrow 10 - 1 = \boxed{}$

Sibuyeketo:

Tifundzise kubhala ligama nombolo.

10

lishumi



11 12 13 14 15 16 17 18 19 20

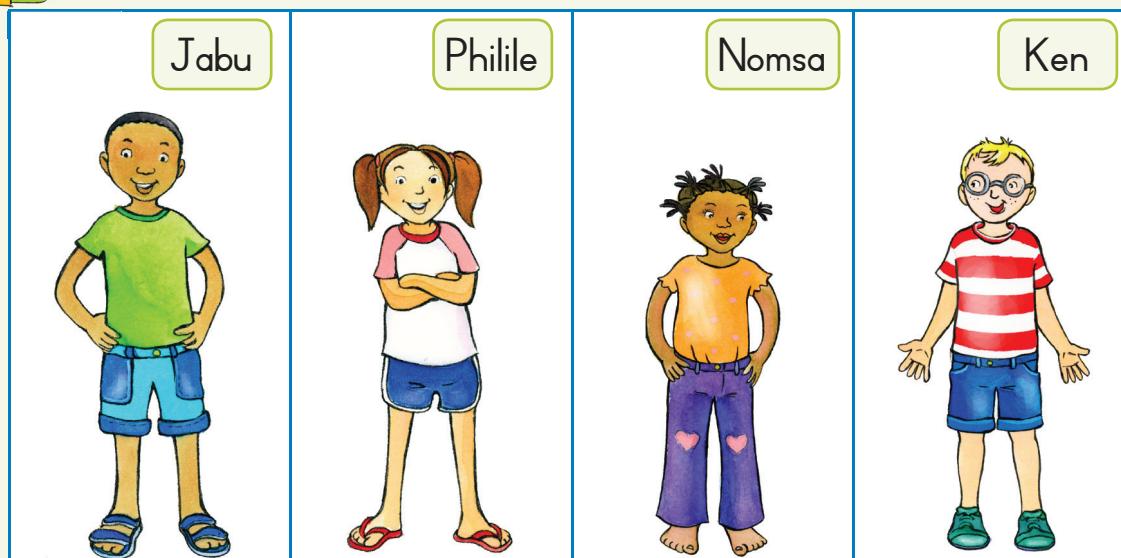
74



Budze

Bukisia lesitfombe bese uphendvula lembuto.

Ithemu 3



Ngubani lomudze kakhulu?

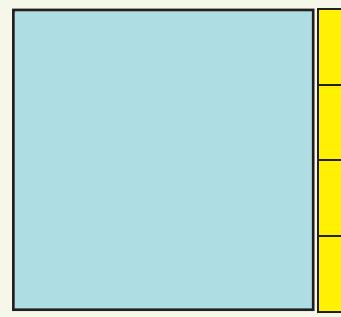
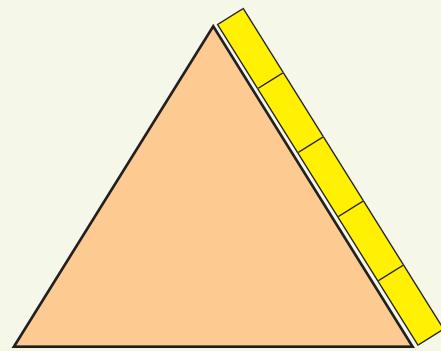
Ngubani umfana lomfisha kakhulu?

Ngubani lomfisha kakhulu?

Ngubani intfombatana lendze kakhulu?



Bungemabhuloki lamangaki budze bemacala alabobunjwa?



20

0

1

2

3

4

5

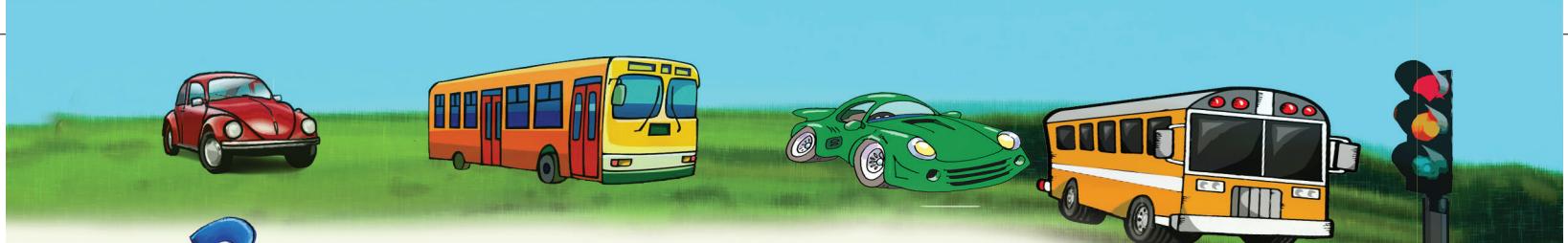
6

7

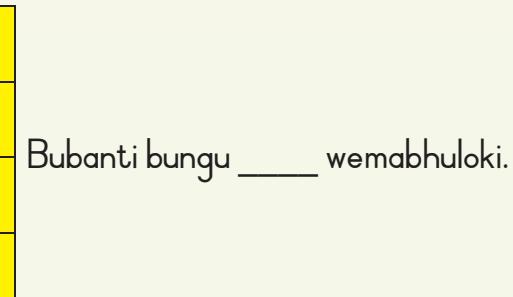
8

9

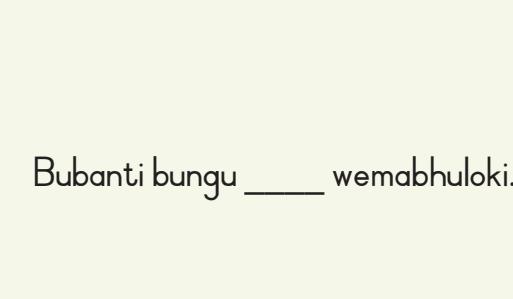
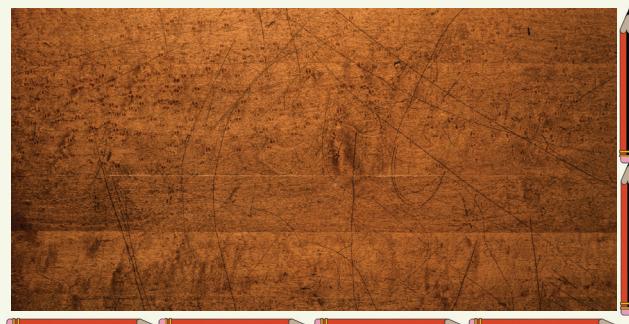
10



Buyini budze nebulanti belitafula ngebudze bemabhuloki
nebepeniseli?



Budze bungu ____ wemabhuloki.

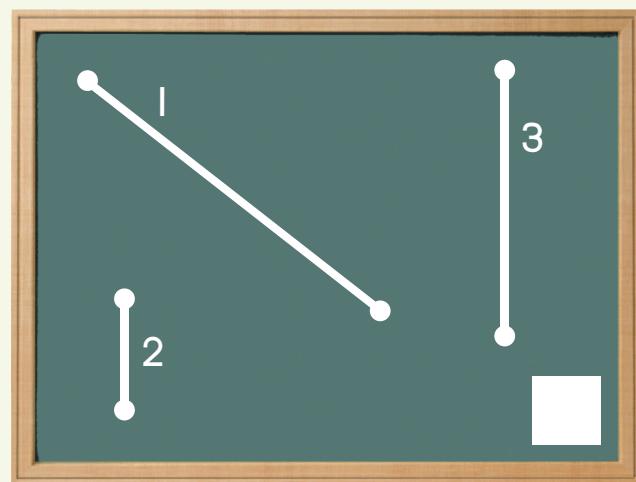
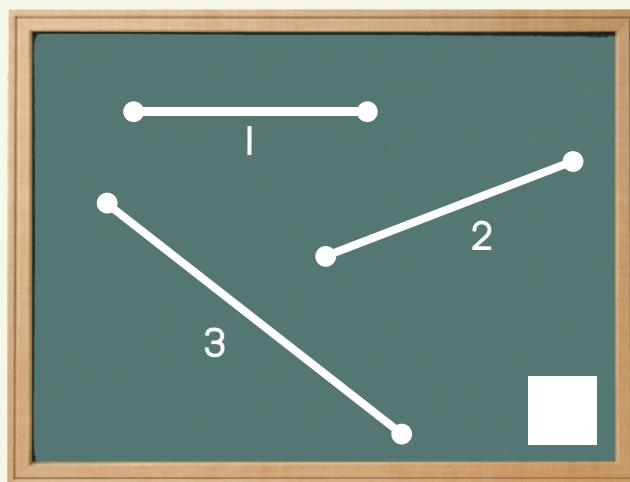


Budze bungu ____ wemabhuloki.



Ngumuphi umugca lomfisha
kakhulu?
Umugca 1, 2 noma 3?

Ngumuphi umugca lomudzekati?
Umugca 1, 2 noma 3?



Teacher:
Sign:
Date:



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Ithemu 3



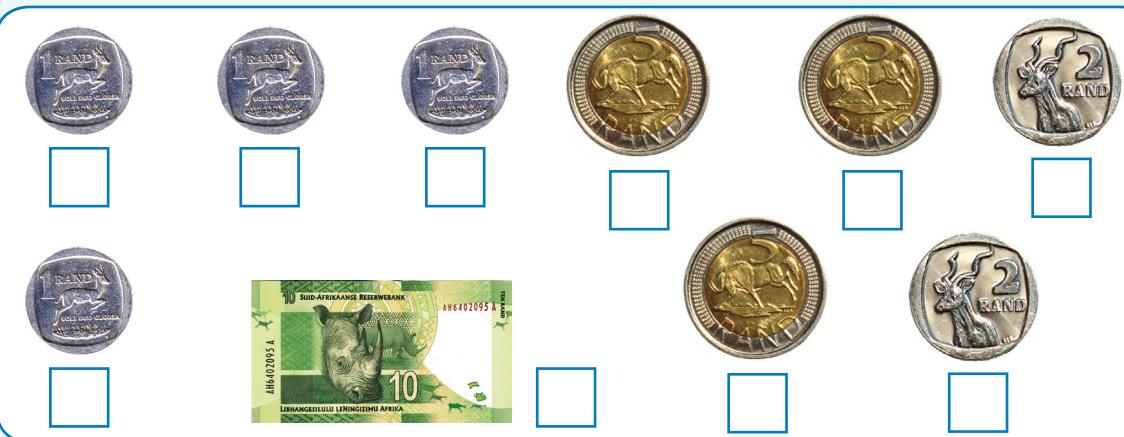
Faka luhawu ✓ enanini lelikhulu kakhulu luhele ngalunye.



Faka luhawu ✓ ebuhhehlwini lobutakunika R10.



Faka luhawu ✓ ebuhhehlwini lobutakunika R20.



22

0 1 2 3 4 5 6 7 8 9 10

Lusuku:



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



Sombulula loku lokulandzelako:

Ngina R2 buhhehlü na R5 buhhehlü.
Umngani wami unabatsatfu bo-R2
bebuuhhehlü. Ngubani lonemali lenyenti
kakhulu?

Ngina R5 na RI buhhehlü. Umngani wami
unabatsatfu bo-R5 bebuuhhehlü. Ngubani
lonemali lenyenti kakhulu?



Ngina RI5:

Ngibhadala

Intjintji

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



Bala kahle loku lokulandzelako:

Ngina RI5. Ngitsenga lipaka lema shibusi nga R6.
Ngumalini imali lengisele nayo?



Yenta kube ngu-R2 ngaphasi.

RII		R4	
RI2		R6	
RIO		R8	



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Dvweba buhhehlu kwakha:

RI1	
RI2	
RI3	
RI4	



Faka lumphawu ✓
bese ugcwalisa
imphendvulo
lengiyo.

$$RI8 - R8 = \boxed{}$$



$$RI2 - R2 = \boxed{}$$



$$RI5 - R4 = \boxed{}$$



$$RI4 - R7 = \boxed{}$$



Bala kahle loku lokulandzelako:

$$RI5 - RIO = \boxed{}$$

$$RIO - RI - RI - R2 = \boxed{}$$

$$R2O - R2 - R8 = \boxed{}$$

$$R5 - R4 = \boxed{}$$

$$R2O - R5 = \boxed{}$$

$$RIO - RI - R5 - R2 = \boxed{}$$



0

1

2

3

4

5

6

7

8

9

10

Lusuku:



Bala kahle loku lokulandzelako:

Ngina R15. Ngitsenga nga:	Ngumalini lengisele nayo?
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 =	



Ngina R15. Ngitsenga liphakethe lemaswidi nga RII.
Yenta umdvwebo kukhombisa kutsi ngumalini lenginaye losele.

→



77

Lusuku:

Ithemu 3

Imali: Kuhlanganisa nekususa



Bala kahle loku lokulandzelako:

$RIO + R2 =$	
$RIO + R4 =$	
$R9 + R5 =$	
$RI2 + R5 =$	

$RIO + R5 =$	
$RIO + R7 =$	
$R8 + R4 =$	
$RI4 + R2 =$	

$RIO + RI =$	
$RIO + R6 =$	
$R7 + R6 =$	
$RII + R6 =$	



Bala kahle loku lokulandzelako:

$RIO - R7 =$	
$RI5 - RI =$	
$RI2 - R2 =$	
$RI5 - R6 =$	

$RIO - R2 =$	
$RI5 - RI5 =$	
$RI4 - R7 =$	
$RI2 - R9 =$	

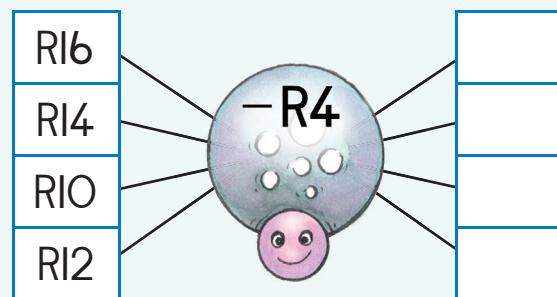
$RIO - R5 =$	
$RI5 - R2 =$	
$RI6 - R6 =$	
$RI4 - R4 =$	



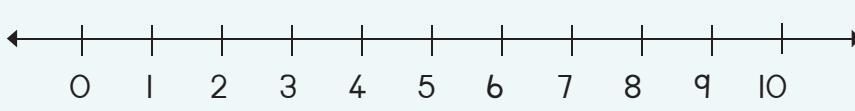
Sita bulembu
kucedzela tonkhe
letibalo.



Yenta kube ngu - R2 ngaphasi.



$R4 - R2 =$	
-------------	--



$R7 - R2 =$	
-------------	--

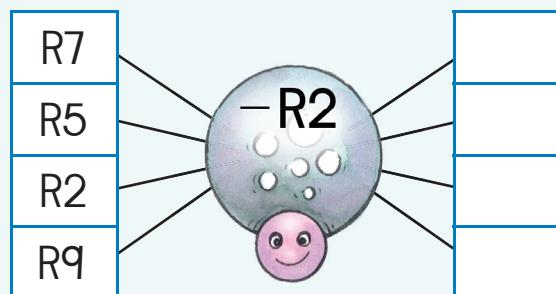


26

0 1 2 3 4 5 6 7 8 9 10



Sita bulembu kubala tonkhe tibalo tekususa.



Sombulula loku lokulandzelako.

Bewuna RI2. Make wakho wakunika R5.
Ngumalini imali lonayo manje?

Una RI9. Utsenga liswidi nga R8.
Ngumalini imali lonayo lesele?



Ngumalini imali lengiyongile?



Khombisa sibalo kulomugca-nombolo bese ubala kahle imphendvulo.



78

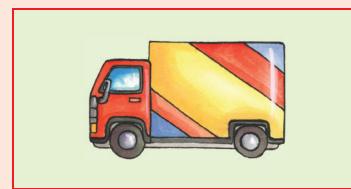
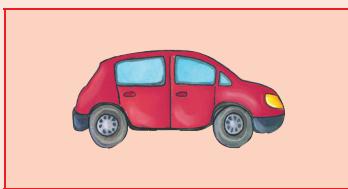
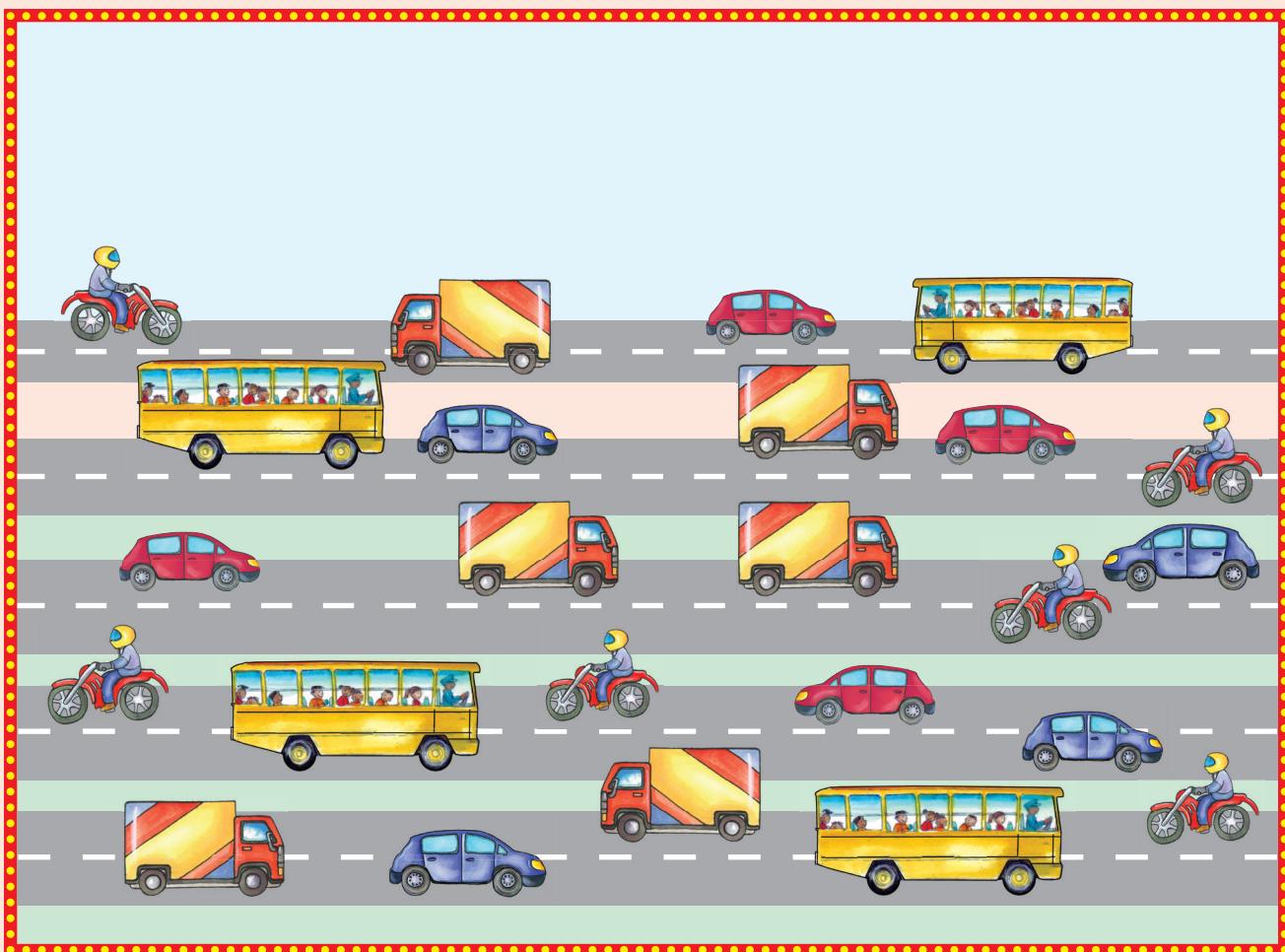


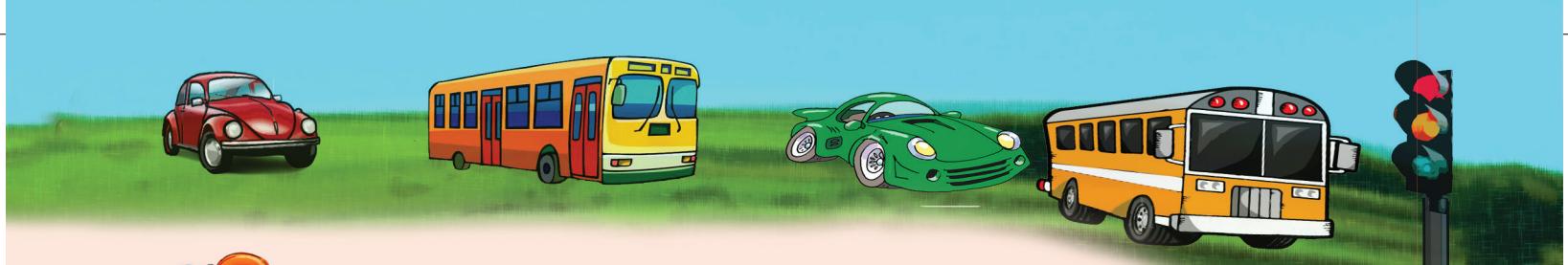
Bala kutsi tingaki tinhlobo tetitfutsi longatibona.

Ithemu 3

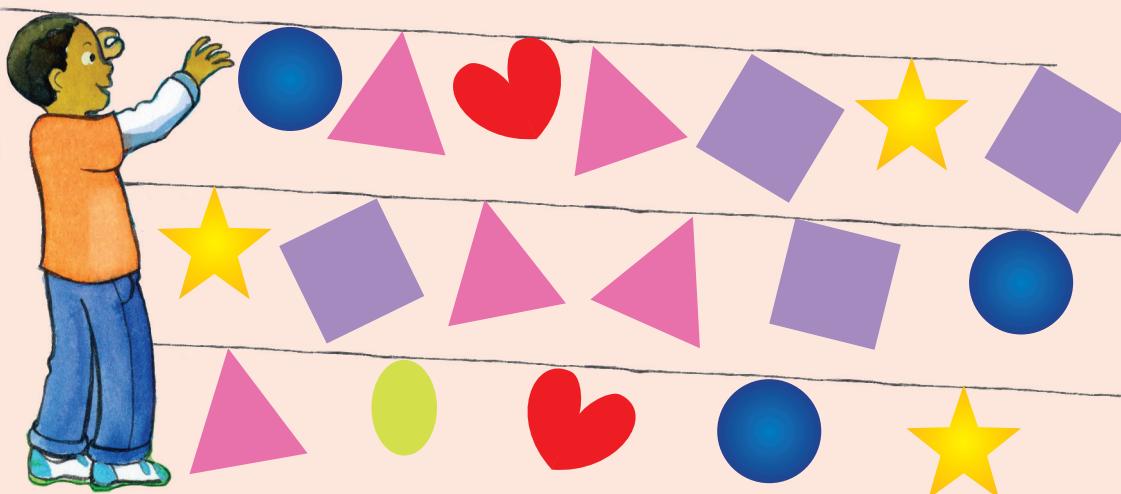
Imininingwane

Lusuku:





Bala labobunjwa bese ufaka umbala eshathini lelingentasi
kukhombisa kutsi bangaki baluhlobo ngalunye.
Chubeka uphendvule lemibuto.



5						
4						
3						
2						
1						
	▲	●	■	◆	★	○

_____ lokunyenti kakhulu.

_____ lokuncane kakhulu.



Teacher:
Sign:
Date:



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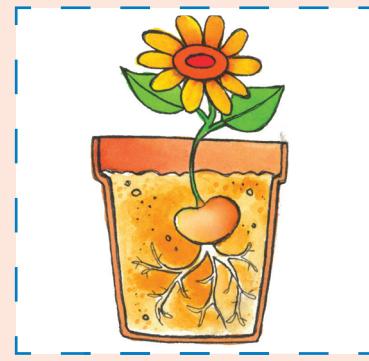
Ithemu 3

Imininingwane nesikhatsi

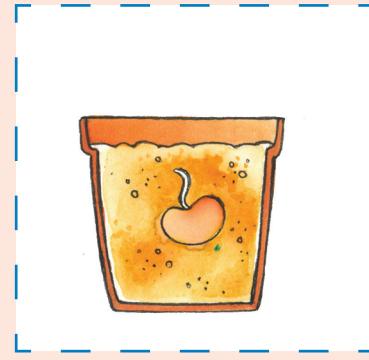
Khuluma ngaletitfombe bese utihleembisa ngendlela lefanele.



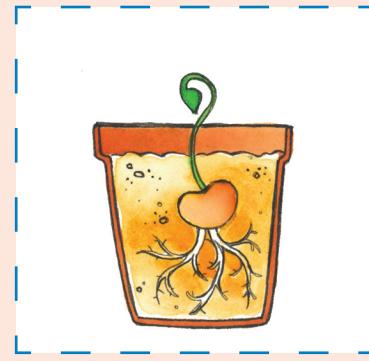
1



2



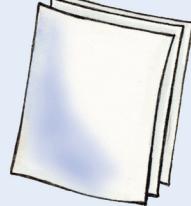
3



4



Sebentisa lamakhadi ekuhlungwa lasuka kuLokusikiwe I
kucedzela lesitfombe - mdvwebo.



--	--	--	--



Teacher:
Sign:
Date:



80



Ithemu 3

Ticumbi tetihlanu kufika ku 15

Sibuyeketo:

Tifundzise kubhala ligama nombolo.

5

sihlanu



Bukisia lesitfombe bese uphendvula umbuto.



Bukisia lesitfombe.

Nansi indlela lesingakubhala ngayo: Dweba sakakho lapha.

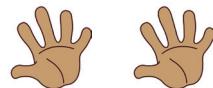
Tingaki ticumbi teti-5 longatenta?



I sicumbi sesi-5 si-5



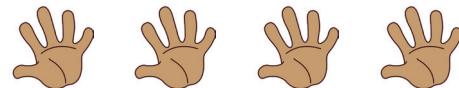
Bala iminwe bese ugcwalisimphendvulo yakho.



$$5 + 5 =$$



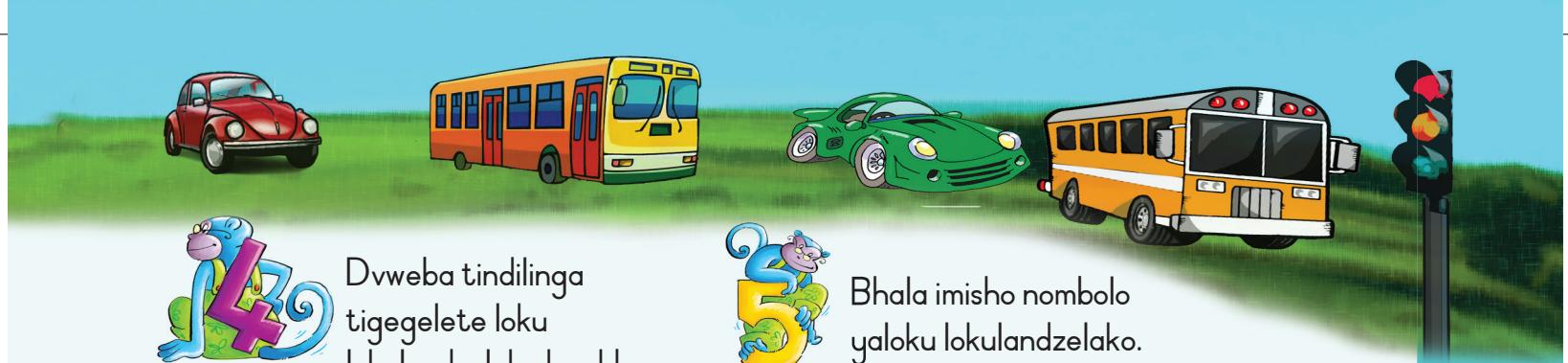
$$5 + 5 + 5 =$$



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

2 ticumbi tetihlanu
li-10



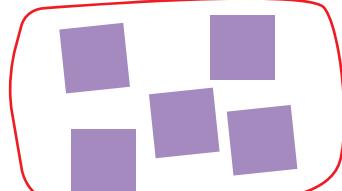


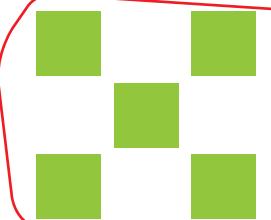
Dwweba tindilinga
tigegelete loku
lokulandzelako kwakha:



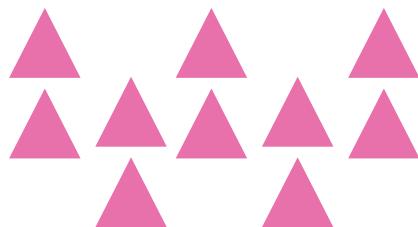
Bhala imisho nombolo
yaloku lokulandzelako.

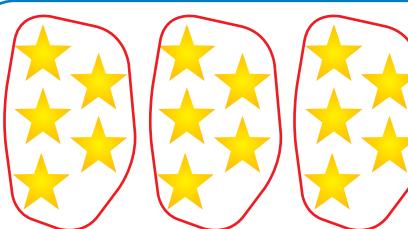
1 sicumbi sesi - 5



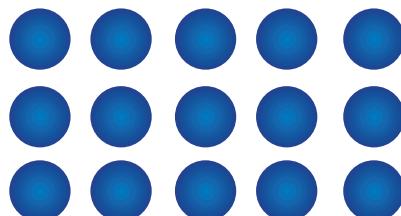


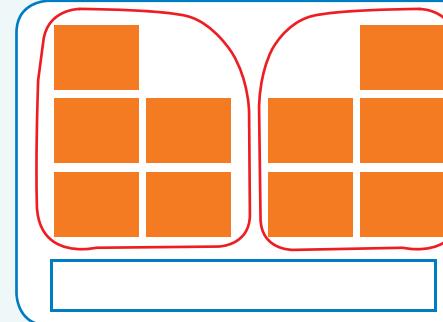
2 ticumbi teti - 5





3 ticumbi teti - 5





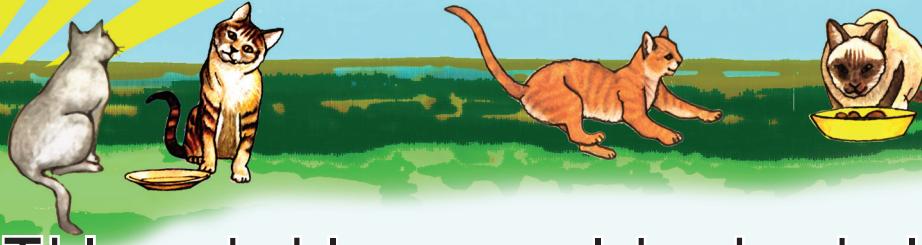


Tingaki ticumbi tetihlanu longatenta ngaloku?

10	ne	0		ticumbi
8	ne	2		ticumbi
6	ne	4		ticumbi
4	ne	1		ticumbi
2	ne	3		ticumbi



81



Lusuku:

Ithemu 3

Tihlanu: kuhlanganisa lokuphindzelelwe kufika ku 15

Sibuyeketo:

Sibuyeketo: Gcwalisa letinombolo letishiyewe.



Tingaki tintwane neminwe lekhona? Bhala umusho nombolo waloku.



Nesicumbi lesihlanu bobhanana

Dvweba:



Dvweba bobunjwa baloku lokulandzelako.

$$5 + 5 = \boxed{10}$$

$$5 + 5 + 5 = \boxed{\quad}$$





0 1 2 3 4 5 6 7 8 9 10



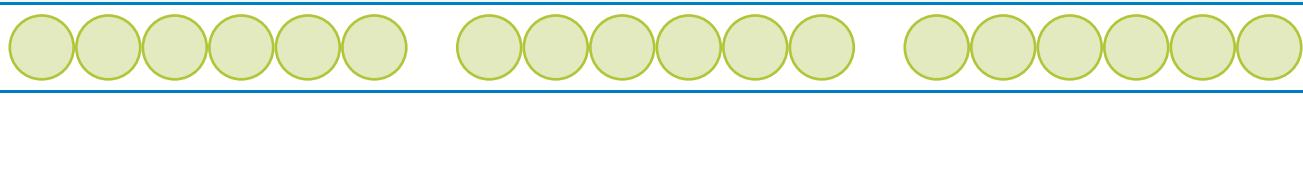
Biyela bese uyabala kutsi tingaki ticumbi tetihlanu longatenta ekhadini ngalinye.







Bhala umusho nombolo waloku:



Sebentisa imibala leyehlukene kukhombisa letinombolo lotatisebentisa kwakha ticumbi tetihlanu.

I	2	3	4	5	6	7	8	q	10
II	I2	I3	I4	I5					



Tingaki ticumbi tetihlanu longatenta?

I	na	I4	kwakha		ticumbi
I3	na	2	kwakha		ticumbi
8	na	2	kwakha		ticumbi
7	na	8	kwakha		ticumbi
q	na	2	kwakha		ticumbi

II I2 I3 I4 I5 I6 I7 I8 I9 20



82



Lusuku:

Ithemu 3



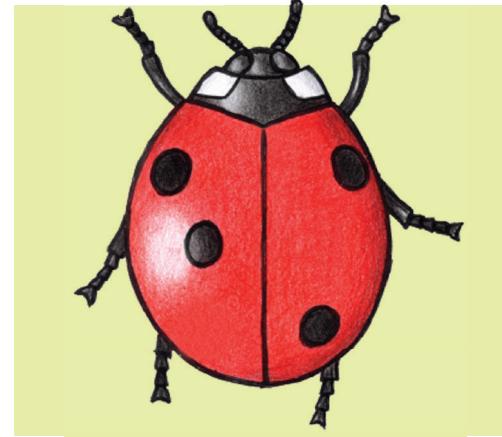
Gcwalisa letinombolo letishiyiwe.

I		3		5		7	8	9	
II	I2								



Yenta ticumbi tetihlanu.

Libhungane ngalinye kufute libe nesicumbi sesihlanu semabala eluphikweni ngalunye. Dvweba emabala lashiyiwe.



36

0

1

2

3

4

5

6

7

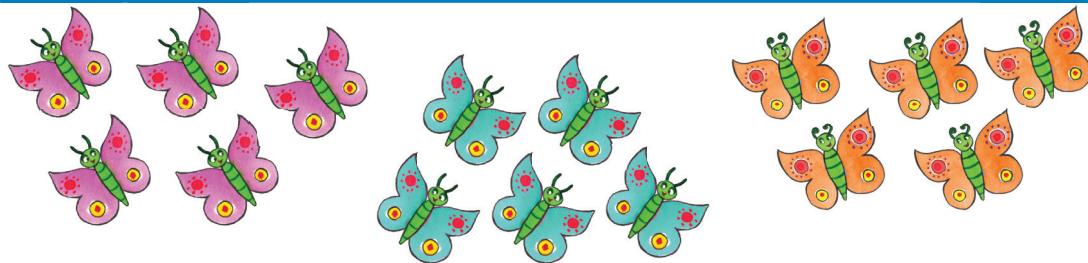
8

9

10



Bhala umusho wangakunye ngakunye.



Bala kahle loku lokulandzelako:

$$0 + \boxed{5} = \boxed{\quad}$$

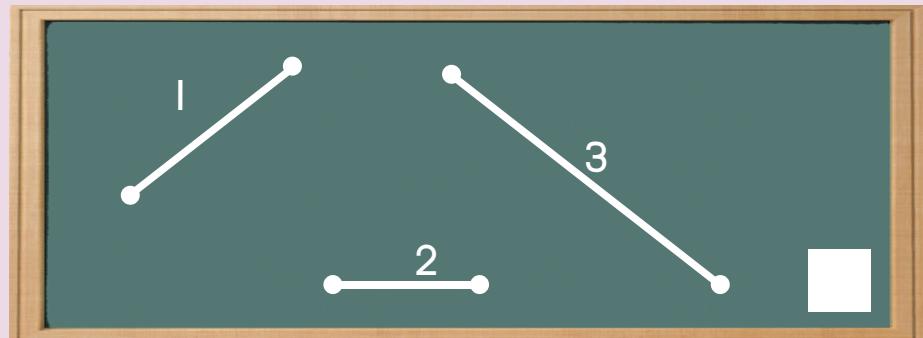
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\quad}$$

$$\boxed{5} + \boxed{5} = \boxed{\quad}$$

$$\boxed{5} + \boxed{5} + \boxed{5} + \boxed{5} = \boxed{\quad}$$

Sibuyeketo:

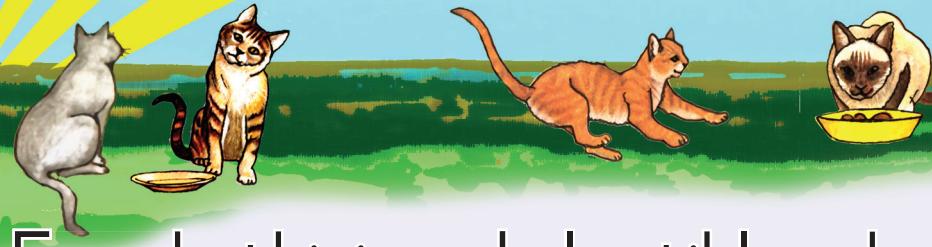
Sibuyeketo: Ngumuphi umugca lomudzekati?



Teacher:
Sign:
Date:



83



Ithemu 3

Emaphethini nombolo etihlanu kufika ku 50

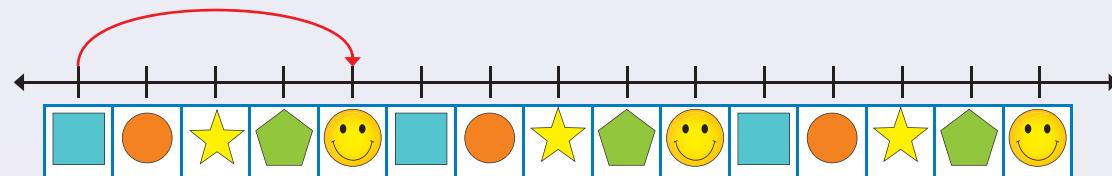


Cedzela lephethini yetihlanu ngekufaka umbala etinombolweni.

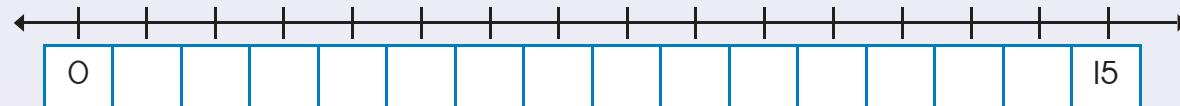
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Dvweba imihibe kukhombisa ticumbi tetihlanu.

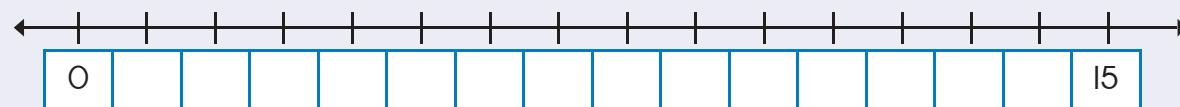


Gewalisa tinombolo letishiyiwe bese udvweba imihibe kukhombisa ticumbi tetihlanu.



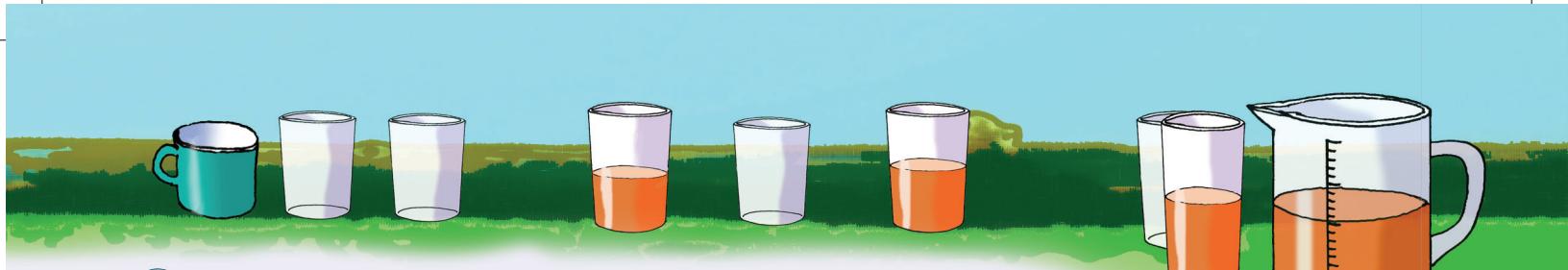
Cedzela lomugca-nombolo. Dvweba imihibe kukhombisa ticumbi tetihlanu.

Kuna weticumbi tetihlanu.

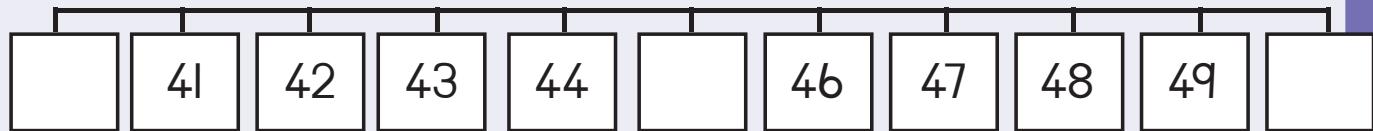
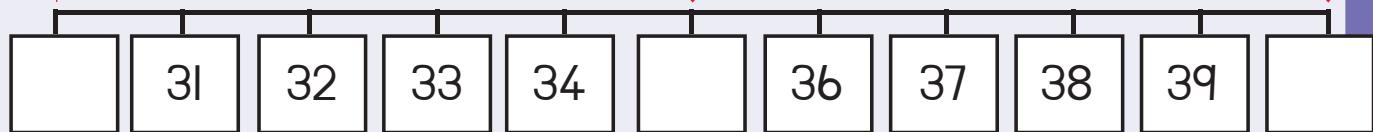


38

0 | 2 3 4 5 6 7 8 9 10

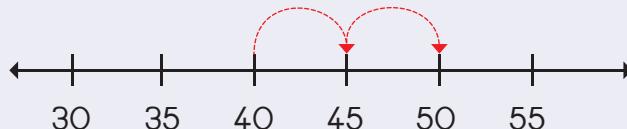


Sika kahle letinombolo letishiyiwe letsuka kuLokusikiwe 2
bese utibeka emigceni-nombolo.



Dvweba imihibe kukhombisa loku lokulandzelako:

40, 45, 50



10, 15, 20



25, 30, 35



11 12 13 14 15 16 17 18 19 20



84



Lusuku:

Ithemu 3

Emaphethini nombolo etihlanu kufika ku 80



Tingaki ticumbi tetihlanu longatibona kulesitfombe?



Cedzela letitfombe kukhombisa timbili ticumbi tetihlanu ebhulokini ngalinye.



40

0

1

2

3

4

5

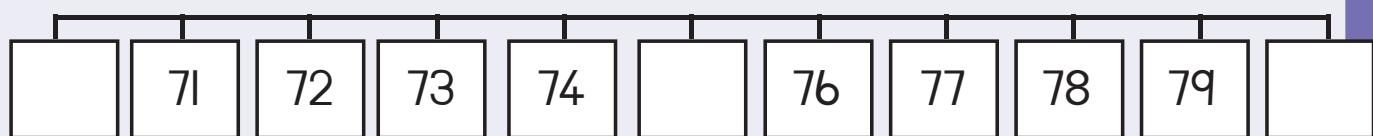
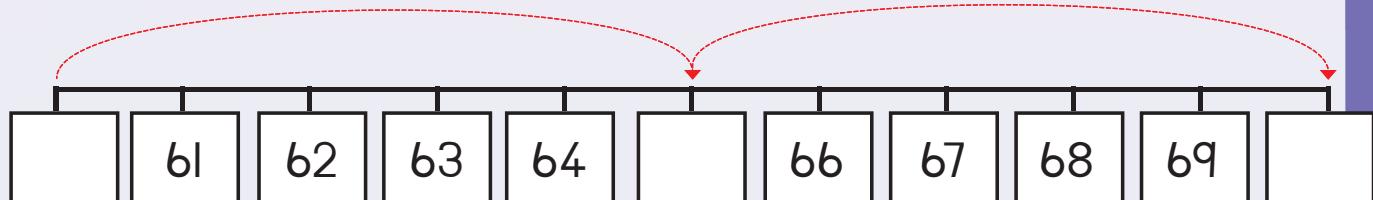
6

7

8

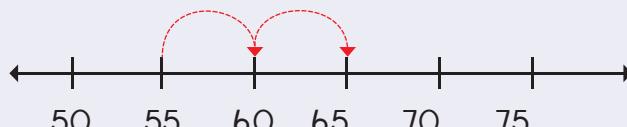
9

10

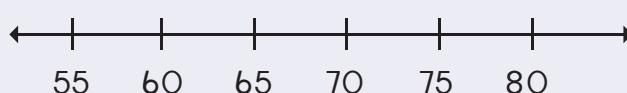


Dweba lemihibe kukhombisa loku lokulandzelako:

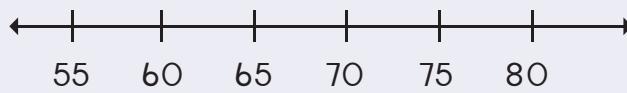
55, 60, 65



65, 70, 75



70, 75, 80



11 12 13 14 15 16 17 18 19 20



85



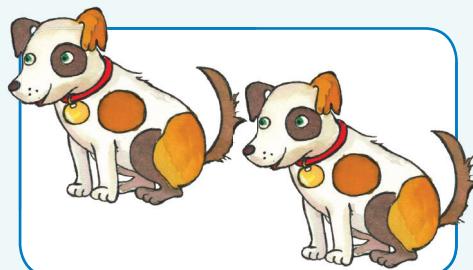
Ithemu 3



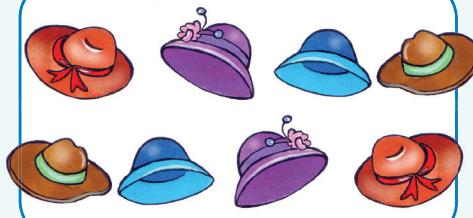
Phindza kibili lentofo bese ugcwalisa imphendvulo.



Ku-1 kuphindhwe
kibili ngu



Ku-4 kuphindhwe
kibili ngu

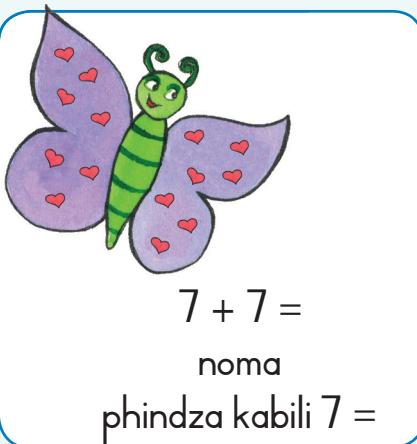


Si-5 siphindhwe
kibili ngu

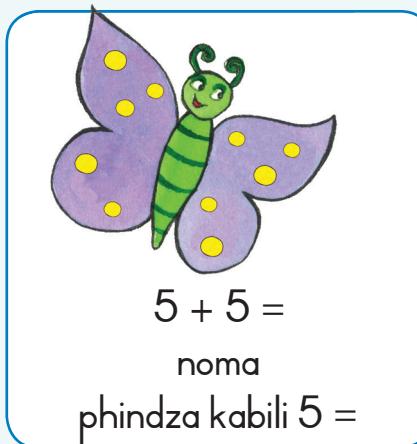


Bala labobunjwa etimphikweni teluvivane ngalunye.

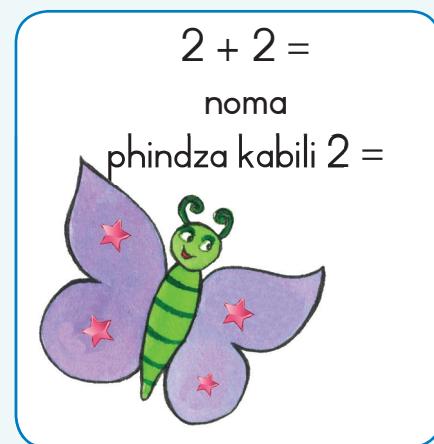
Cedzela imisho nombolo yekuphindza kibili.



$$7 + 7 = \\ \text{noma} \\ \text{phindza kibili } 7 =$$



$$5 + 5 = \\ \text{noma} \\ \text{phindza kibili } 5 =$$



$$2 + 2 = \\ \text{noma} \\ \text{phindza kibili } 2 =$$



42

0 | 2 3 4 5 6 7 8 9 10



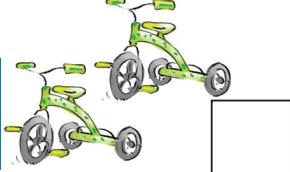
Cedzela loku lokulandzelako:

Sitsi kuphindza kibili
6 li-12. Kutaba ngubani
ihhafu yeli-12? _____

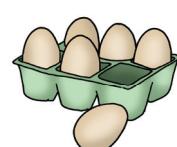
Mangaki emasondvo
lowabonako?



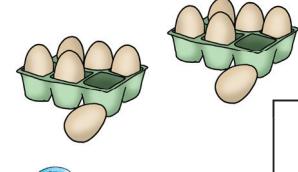
Mangaki emasondvo
lowabonako manje?



Mangaki emacandza
lakhona ekhathonini?



Mangaki emacandza
lakhona manje?



Bala emakashata ubese uwaphindza kibili.



Phindza kibili
letinombolo.

	1	phindza kibili →		2
	2	phindza kibili →		
	3	phindza kibili →		
	4	phindza kibili →		
	5	phindza kibili →		

	4	phindza kibili →		8
	5	phindza kibili →		
	6	phindza kibili →		
	3	phindza kibili →		
	2	phindza kibili →		
	10	phindza kibili →		



Cedzela loku lokulandzelako:

Mangaki emalanga lakhona evikini?

S	M	T	W	T	F	S

Mangaki emalanga lakhona emavikini lamabili? _____

S	M	T	W	T	F	S

Sitsi kuphindza kibili 7 ngu 14.

Kutaba ngubani ihhafu yeli-14? _____

Tingaki tnyawo lotibonako?



Tingaki tnyawo lotibonako manje?



Sitsi kuphindza kibili 2 ngu 4.

Kutaba ngubani ihhafu ya 4 ? _____



Cedzela loku
lokulandzelako:

$$2 + 2 + 1 = \quad 5 \quad \text{noma} \quad \text{Kuphindza kibili } 2 + 1 = 5$$

$$4 + 4 + 1 = \quad \quad \quad \text{noma}$$

$$7 + 7 + 1 = \quad \quad \quad \text{noma}$$



Teacher:

Sign:

Date:

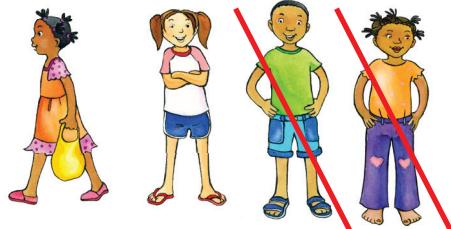
86



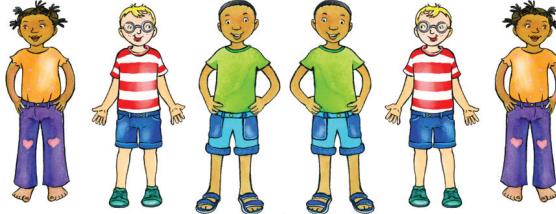
Ithemu 3



Faka umugca uvundle kuhhafu yebantfwana bese ubhala imphendvulo.



Ihhafu ya 4 ngu _____



Ihhafu ya 6 ngu _____



Ihhafu ya 2 ngu _____



Ihhafu ya 8 ngu _____



Faka umugca uvundle kuhhafu ubese ugcwalisa imphendvulo.

Ihhafu yaku-2 =

Ihhafu yaku-8 =

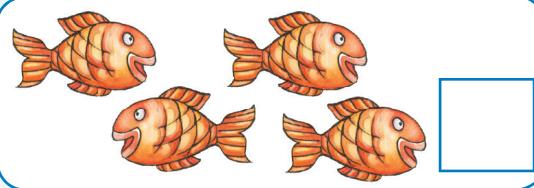
Ihhafu yaku-4 =

Ihhafu yaku-10 =

Ihhafu yaku-6 =

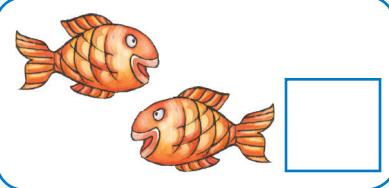


Tingaki
tinhlanti
letikhona?





Ihhafu
yetinhlanti
ngu?





44

0

1

2

3

4

5

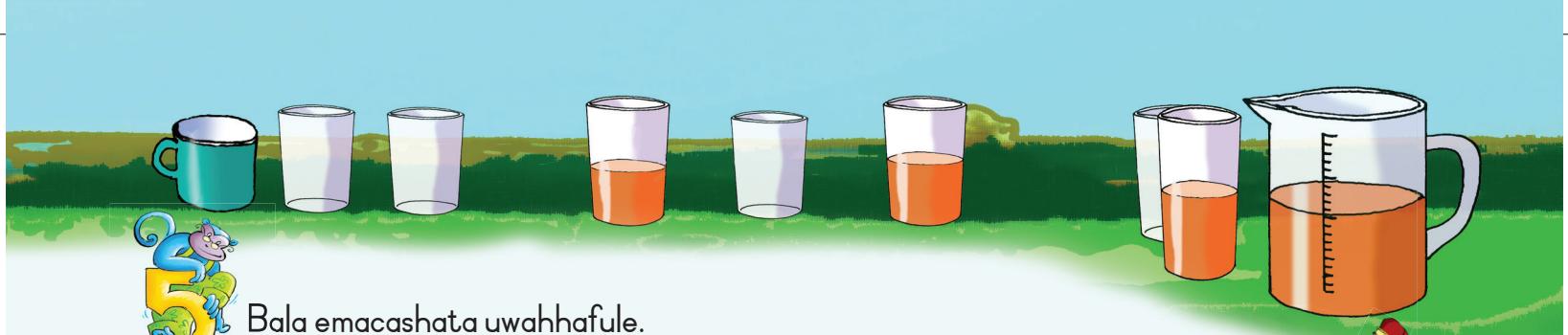
6

7

8

9

10



5

Bala emacashata uwahhafule.

	2	hhafu →		<input type="text"/>
	4	hhafu →		<input type="text"/>
	6	hhafu →		<input type="text"/>
	8	hhafu →		<input type="text"/>
	10	hhafu →		<input type="text"/>



Hhafula tinombolo.

4	hhafu →	
8	hhafu →	<input type="text"/>
6	hhafu →	<input type="text"/>
10	hhafu →	<input type="text"/>
12	hhafu →	<input type="text"/>
14	hhafu →	<input type="text"/>



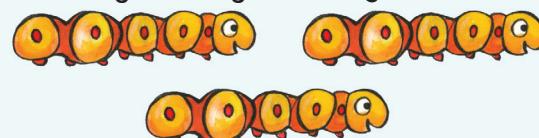
Phendvula loku lokulandzelako:

7

Mangaki emanyamane lakhona?



Ihhafu yalamanyamane ngu:



Mingaki imilente lekhona?



Mingaki imilente lekhona manje?



Sitsi ihhafu ye-8 ngu

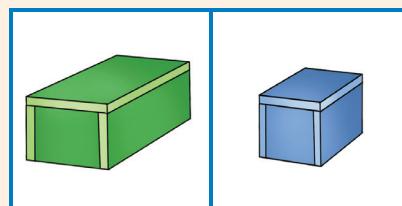
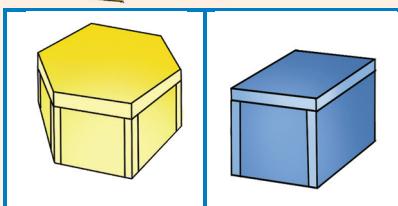




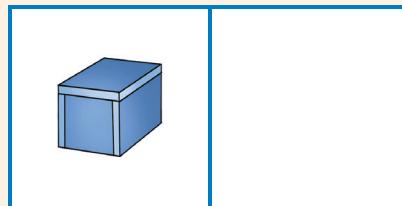
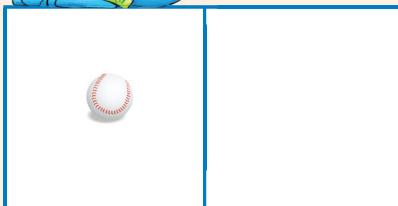
Takhiwo tebusontsatfu (3-D)



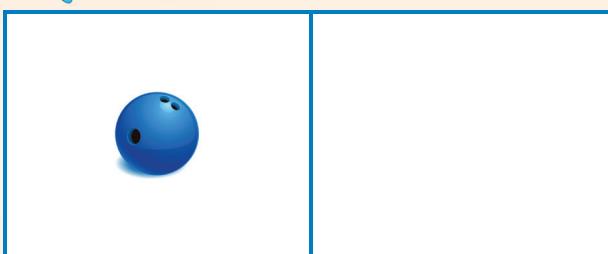
Faka luhawu ✓ entfweni lencane kakhulu.



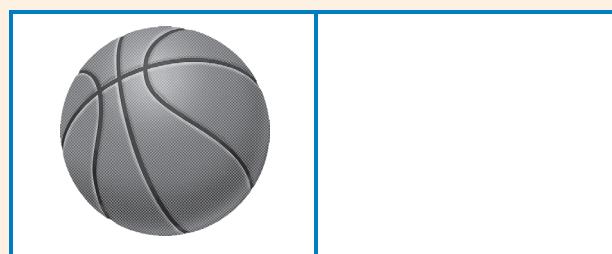
Dweba intfo lenkhudlwana ngesekudla sesitfombe ngasinye.



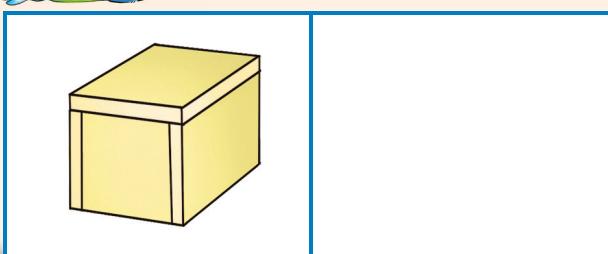
Dweba ibhola lenkhudlwana
kunebhola lelingangane.



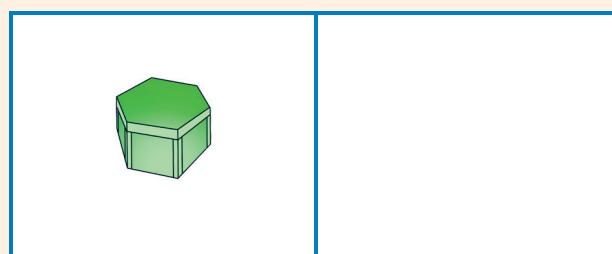
Dweba ibhola lencanyana kunebhola
lemphunga.

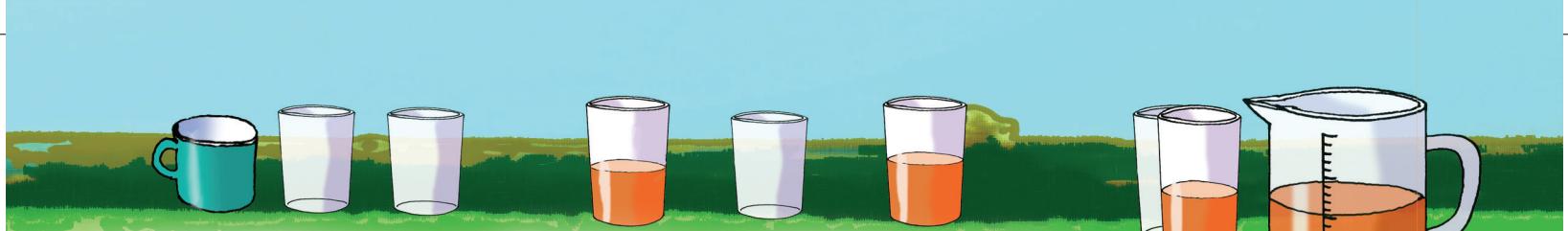


Dweba libhokisi lelincanyana
kunelibhokisi lelimtfubi.

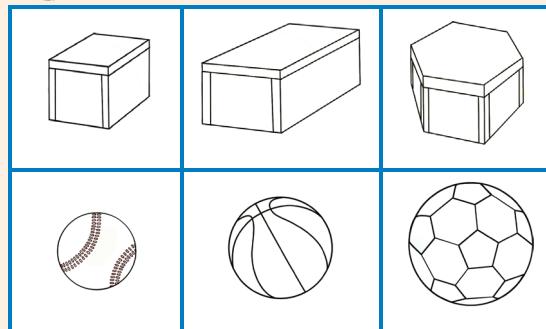


Dweba libhokisi lelikhudlwana
kunelibhokisi leliluhlata.

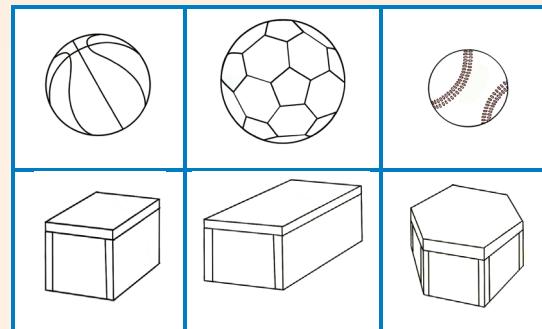




Faka umbala lolingangane ebhokisini
lelincane kakhulu bese ufaka
lomtfubi ebholeni lencane kakhulu.



Faka umbala lophinki
ebhokisini lelikhulukati bese ufaka
lobovu ebholeni lenkhulukati.



Ungawakha
umbhoshongo
ngaletintfo
letilandzelako?
Faka umbala ku-yebo
noma cha.



yebo cha



yebo cha

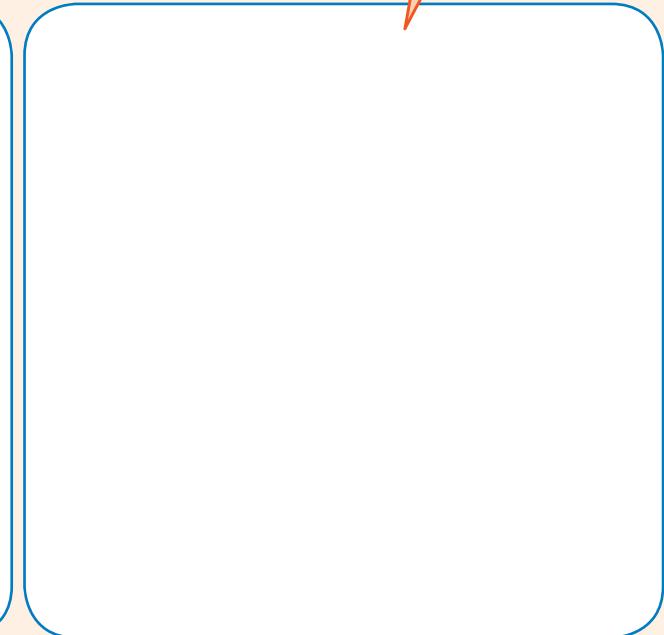
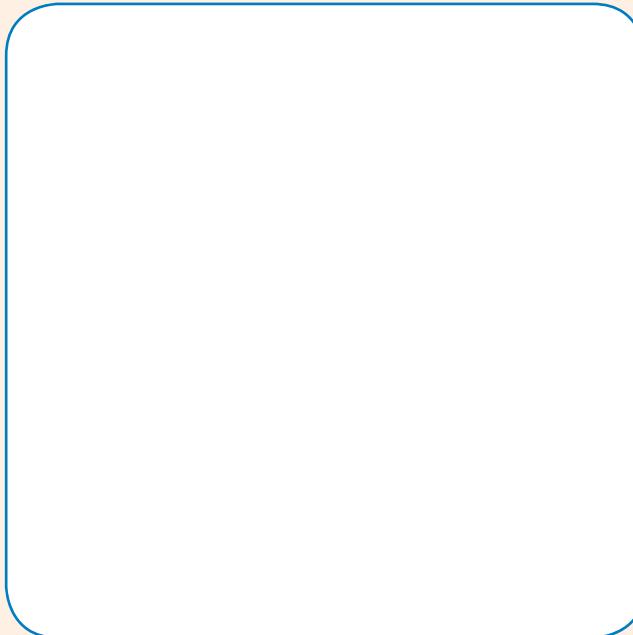


yebo cha



Sika unamatsisele titfombe letibuya kumagazini noma
liphephandzaba kwakha yakakho imibhoshongo lemibili.

Khumbula
lemibhoshongo kufute
isimame.



88



Lusuku:

Ithemu 3



Ngabe letintfo titawugicika noma titawushelela?
Faka umbala emphendvulweni lengiyo.



gicika

shelela



gicika

shelela



gicika

shelela



gicika

shelela



Kungenteka loku lokulandzelako?
Faka umbala emphendvulweni lengiyo.



yebo

cha



yebo

cha



yebo

cha



48

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Hlunga letintfo letilandzelako ngekutidvweba emabhulokini lafanele.

	Emabhola	Emabhokisi
--	----------	------------



Hlunga letintfo ngebukhulu bato ngekutidvweba.

	Emabhola lamancane	Emabhokisi lamancane
	Ibhola lenkhulu	Emabhokisi lamakhulu

89



Lusuku:

Ithemu 3

Emaphethini esijiyometri

Sibuyeketo:

Dwweba loku lokulandzelako:

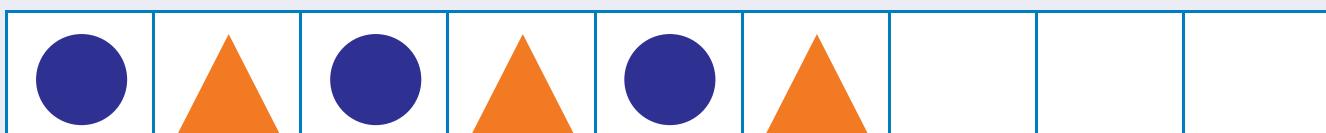
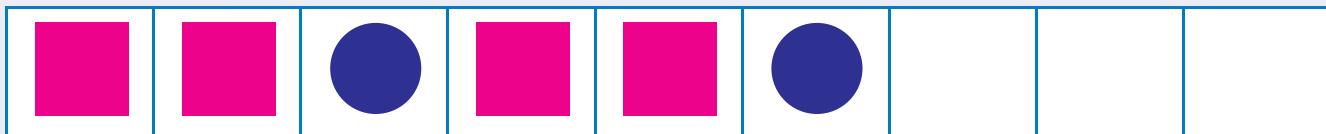
indilinga

sikwele

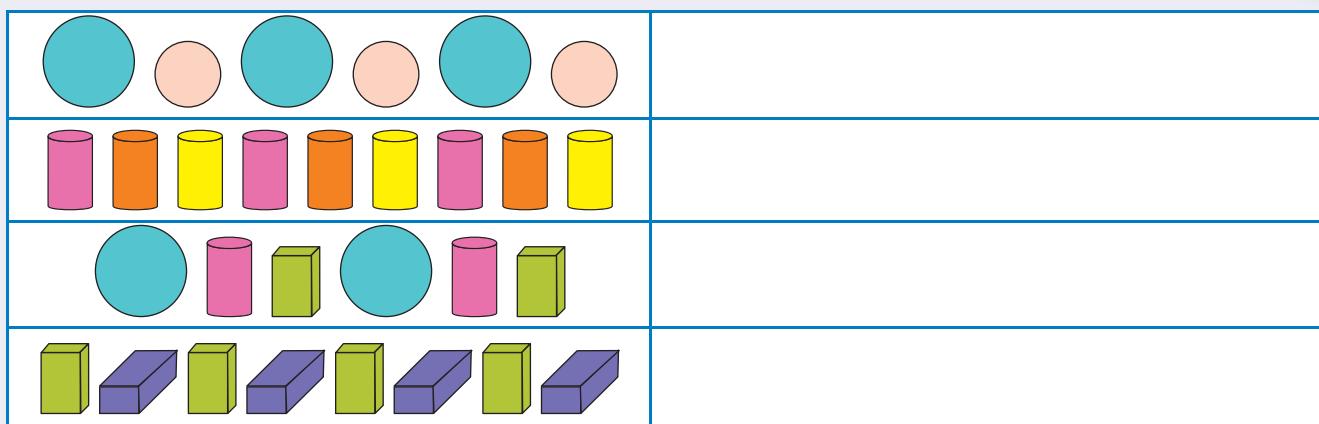
calandze



Cedzela lephethini.



0 1 2 3 4 5 6 7 8 9 10



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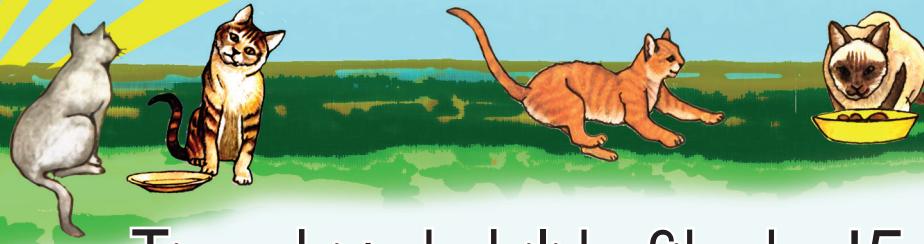
A	B	C	A	B	C				A	B	C
---	---	---	---	---	---	--	--	--	---	---	---

11 12 13 14 15 16 17 18 19 20



Teacher: _____
Sign: _____
Date: _____

90



Ithemu 3

Ticumbi takubili kufika ku 15



Bhala ligama nombolo laloluphawu nombolo.

2

kubili



Phendvula lembuto.



Mangaki emaphengwini lowabonako?

Tingaki tinyawo-mbili lotibonako?

Bhala loku njengemusho nombolo:



Phendvula lembuto.



Tingaki tincwadzi letikhona?

Tingaki ticumbi takubili lengingatakha?

Bhala loku njengemusho nombolo:

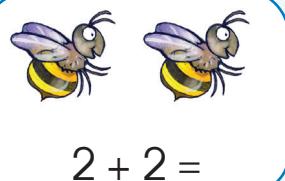


Bhala ligama nombolo laloluphawu nombolo.

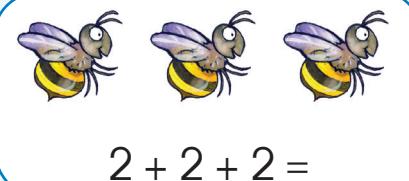
4



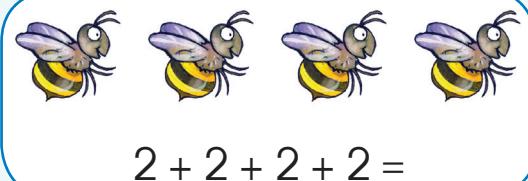
Bala timphiko, bese ugcwalisimphendvulo yakho.



$$2 + 2 =$$



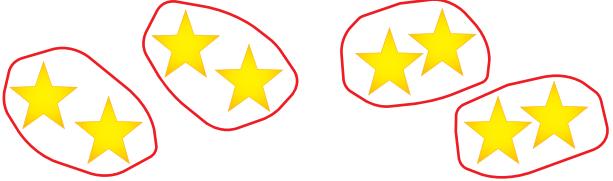
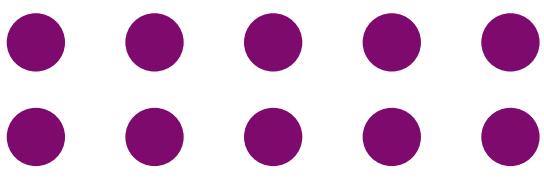
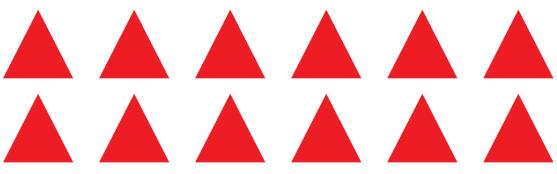
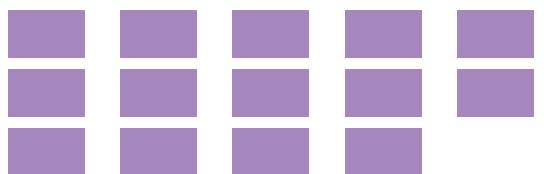
$$2 + 2 + 2 =$$



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

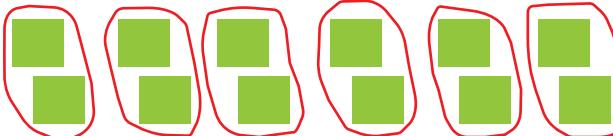
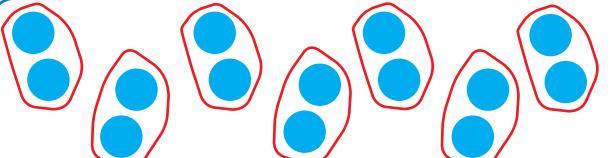
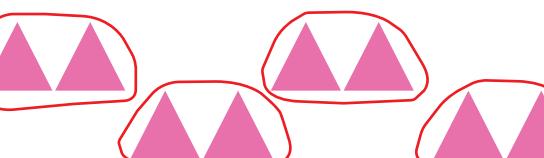




4 ticumbi taku-2 	5 ticumbi taku-2 
6 ticumbi taku-2 	7 ticumbi taku-2 



Bhala umusho nombolo waloku lokulandzelako.

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



Tingaki ticumbi takubili longatenta?

I3 na I utakwenta	ticumbi
II na I utakwenta	ticumbi
9 na I utakwenta	ticumbi
7 na I utakwenta	ticumbi

I2 na I utakwenta	ticumbi
5 na I utakwenta	ticumbi
I na I utakwenta	ticumbi
IO na O utakwenta	ticumbi



q1

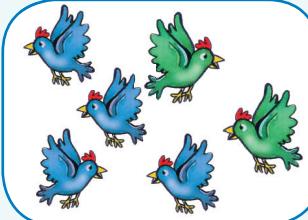
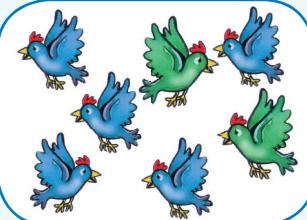
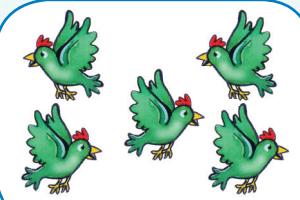


Ithemu 3

Kuhlanganisa ngakubili lokuphindzelelwe kufike ku 15



Mingaki imilente lekhona?



Ukubale njani loku?



Dvweba bobunjwa kukhombisa loku lokulandzelako:

$$2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$



$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$

$$2 + 2 + 2 + 2 = \boxed{\quad}$$

$$2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$



54

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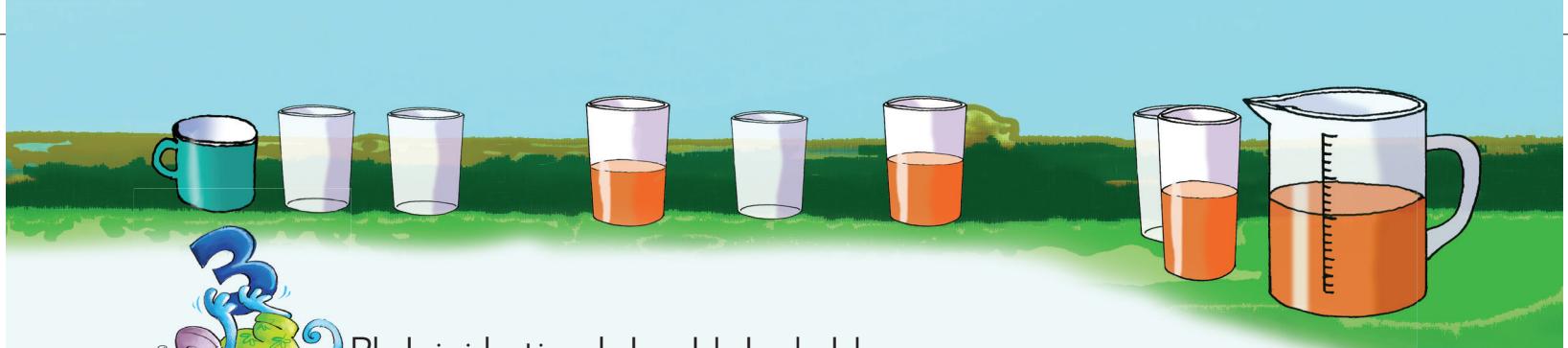
6

7

8

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10



Bhala imisho tinombolo yalokulandzelako.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$2 + 2 + 2 + 2 + 2 = \boxed{\quad}$									

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

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

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



Biyela bese ubala kutsi tingaki ticumbi takubili longatenta ekhadini ngalinye.

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



Cedzela lephethini yetinombolo lotayisebentisa kwakha ticumbi takubili.

1	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	I0

II I2 I3 I4 I5 I6 I7 I8 I9 I0



Teacher:

Sign:

Date:



q2



Ithemu 3



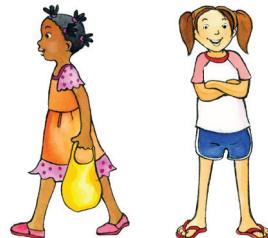
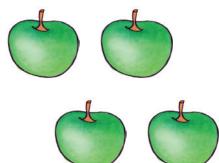
Gcwalisa letinombolo letishiyiwe.

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

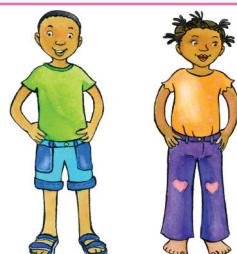
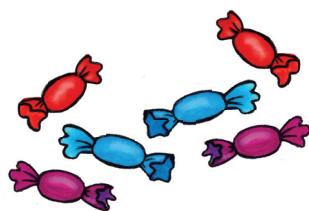


Yenta ticumbi takubili.

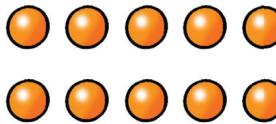
Dvweba indilinga igegelete sicumbi ngasinye sakubili.



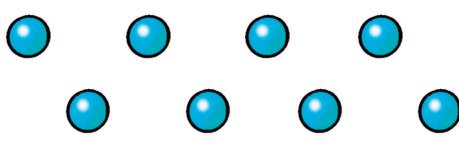
Tingaki ticumbi temahhabhula
letikhona?
Mangaki emahhabhula
latawutfolwa ngumntfwana
ngamunye?



Tingaki ticumbi temaswidi
letikhona?
Mangaki emaswidi latawutfolwa
ngumntfwana ngamunye?



Tingaki ticumbi tabo
tetimabula letikhona?
Tingaki timabula
letitawutfolwa
ngumntfwana ngamunye?



Tingaki ticumbi tabo
tetimabula letikhona?
Tingaki timabula
letitawutfolwa ngumntfwana
ngamunye?

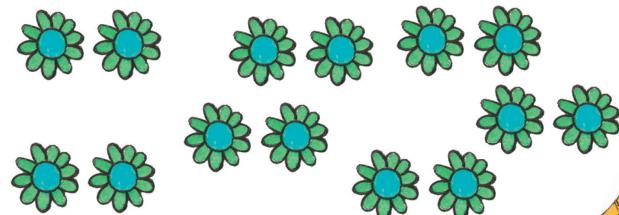


Gcwalisa
letinombolo
letishiyiwe.

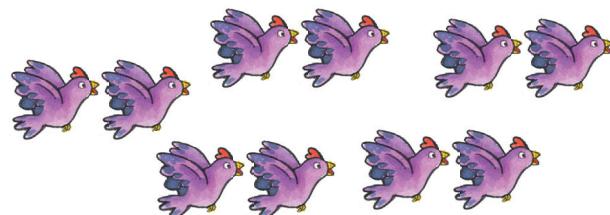


1	2	3	4		6	7	
2	4		8	10		14	16
0	3	6		12		18	21

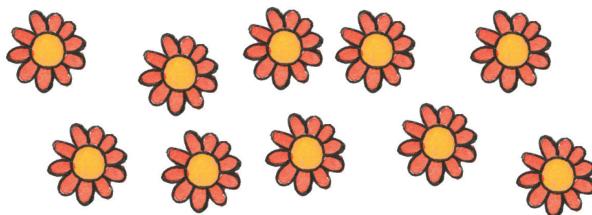
Bhala umusho nombolo usebentisa ngakubili.



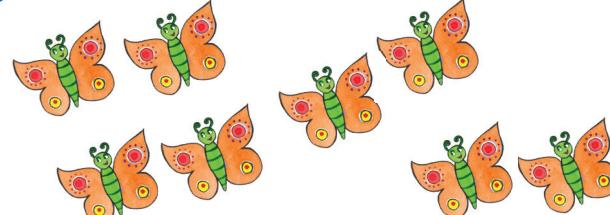
$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{14}$$



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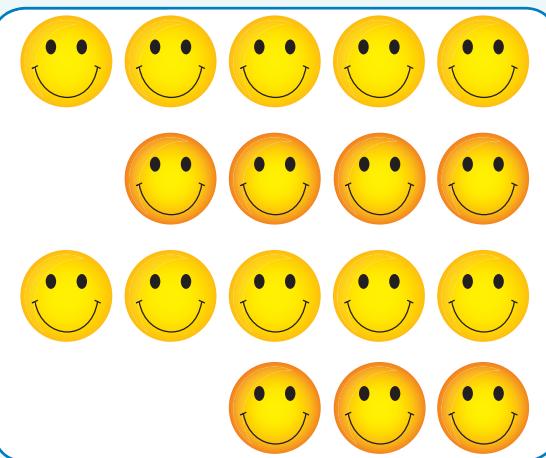


Bala kahle loku lokulandzelako:

$2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 + 2 =$	<input type="text"/>
$2 + 2 + 2 + 2 + 2 + 2 + 2 =$	<input type="text"/>



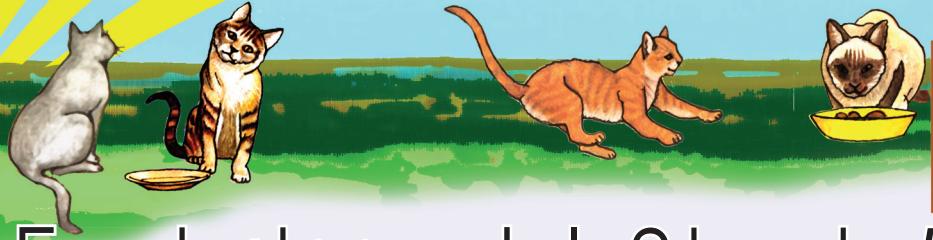
Biyela ticumbi takubili
emgceni ngamunye.



Teacher:
Sign:
Date:



q3



Ithemu 3

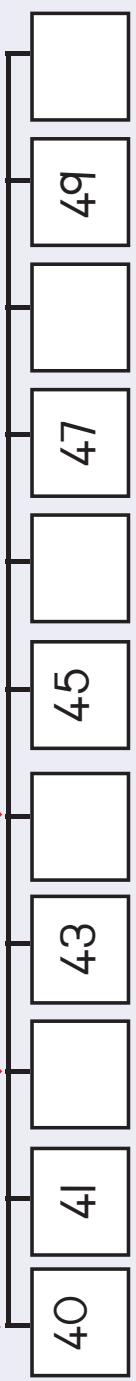
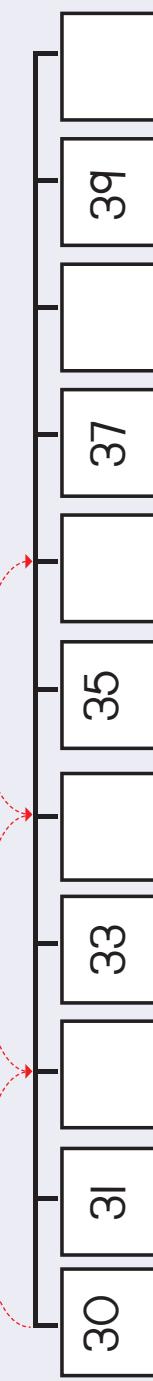
Emaphethini nombolo 2 kuya ku 50



Sika kahle letinombolo letishiyiwe letisuka kuLokusikiwe 2 bese uyatinamatsiselā kulomugca-nombolo. Buye ucedzele lemihibe.



Cedzela lephethini ngekufaka umbala etinombolweni letifanele.



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



Dweba imihibe kukhombisa loku lokulandzelako:

30, 32, 34

28 30 32 34 36 38

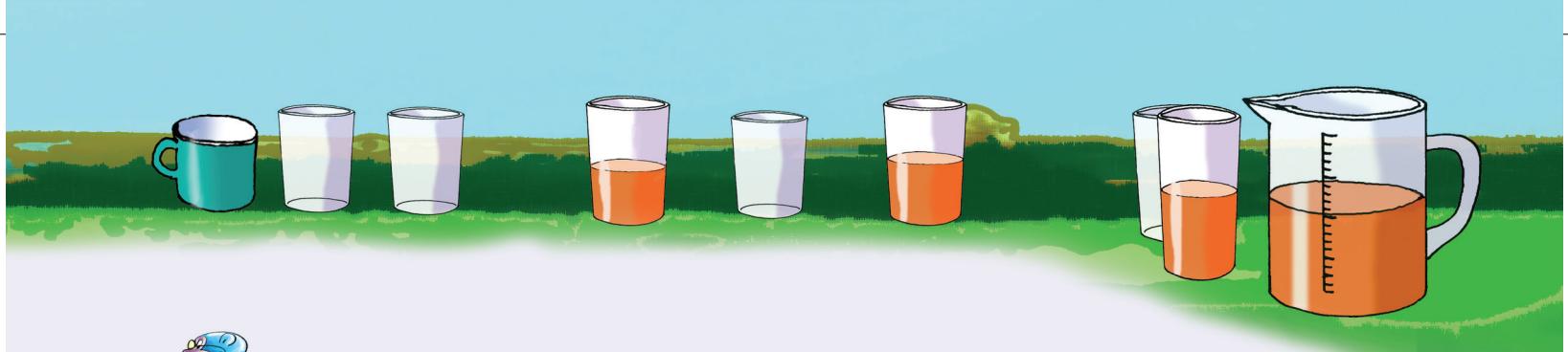
40, 42, 44

38 40 42 44 46 48

46, 48, 50

40 42 44 46 48 50

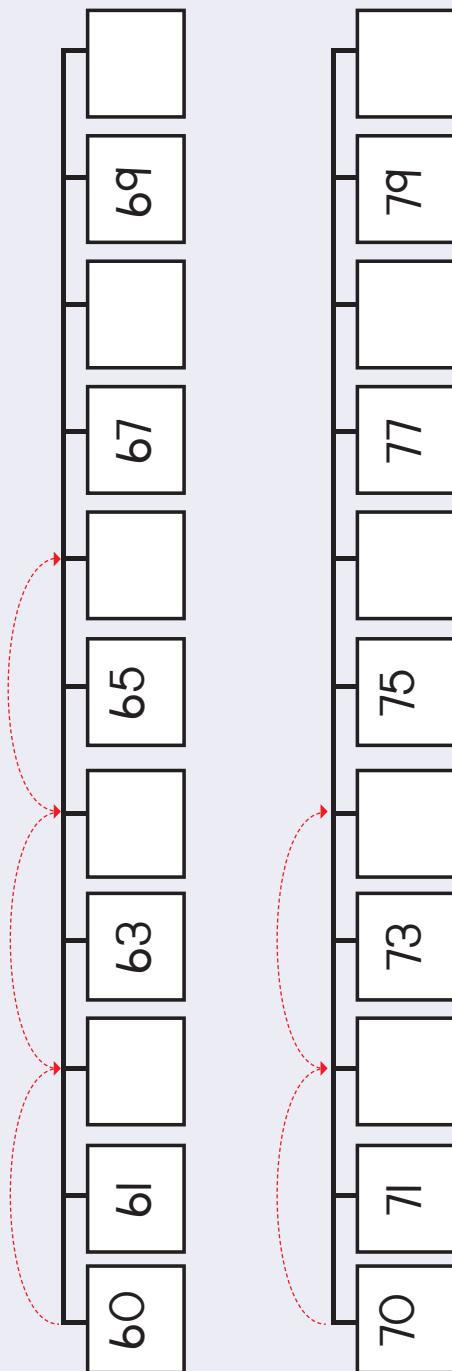




Sika kahle letinombolo letisuka kuLokusikiwe 2 bese utibeka kulomugca-nombolo. Cedzela lemhube.



Cedzela lephethini ngekufaka umbala etinombolweni letifanele.

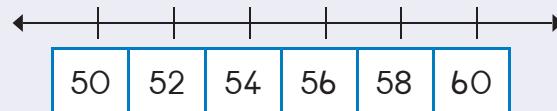


61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

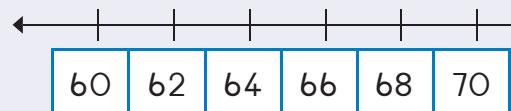


Dvweba imihibe kukhombisa loku lokulandzelako:

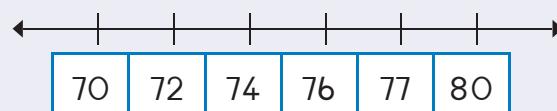
54, 56, 58



64, 66, 68



72, 74, 76



Teacher:
Sign:
Date:



q4



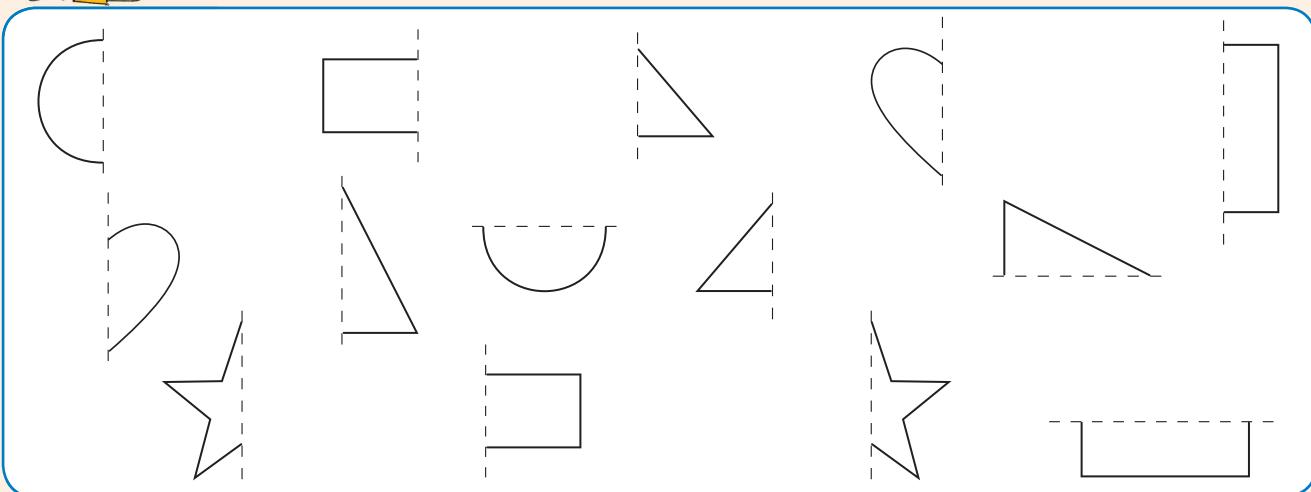
Lusuku:

Ithemu 3

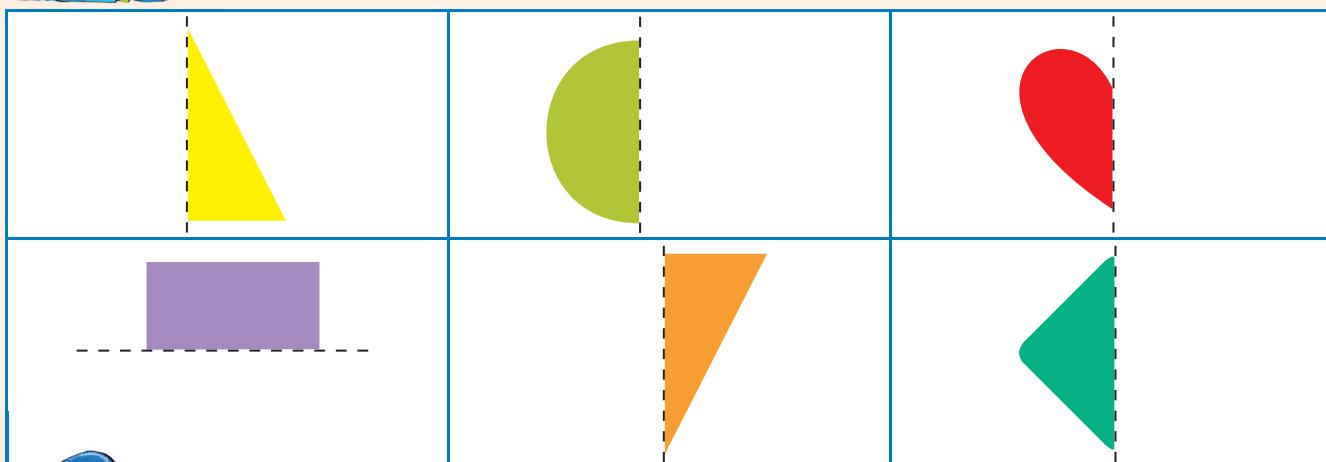
Sitfombe - sibuko



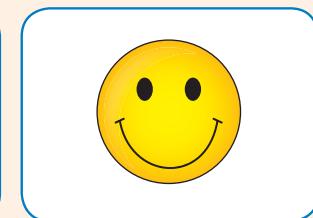
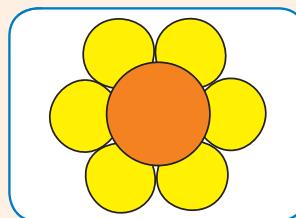
Faka umbala timbili tincenyen tabobunjwa letitakwenta burjwa munye.



Dweba lona lomunye hhafu bese umfaka umbala.



Dweba umugca kwehlukanisa letitfombe kibili khona emacala omabili abukeke afana ncwe.



60

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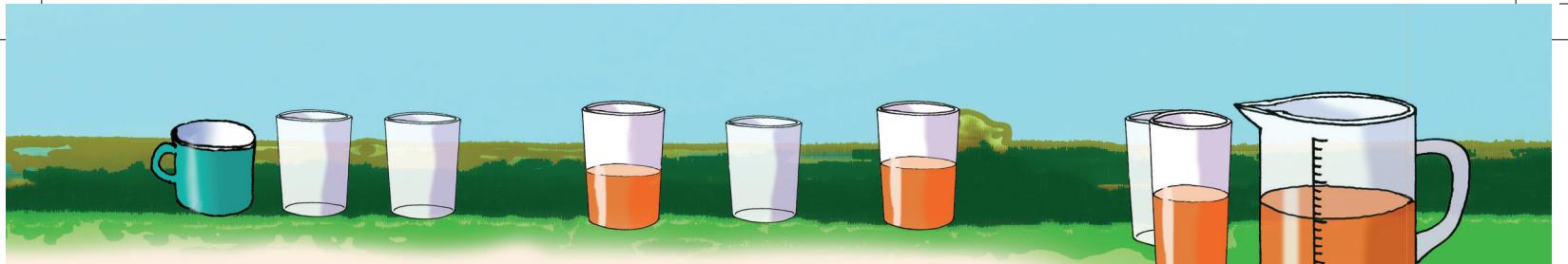
6

7

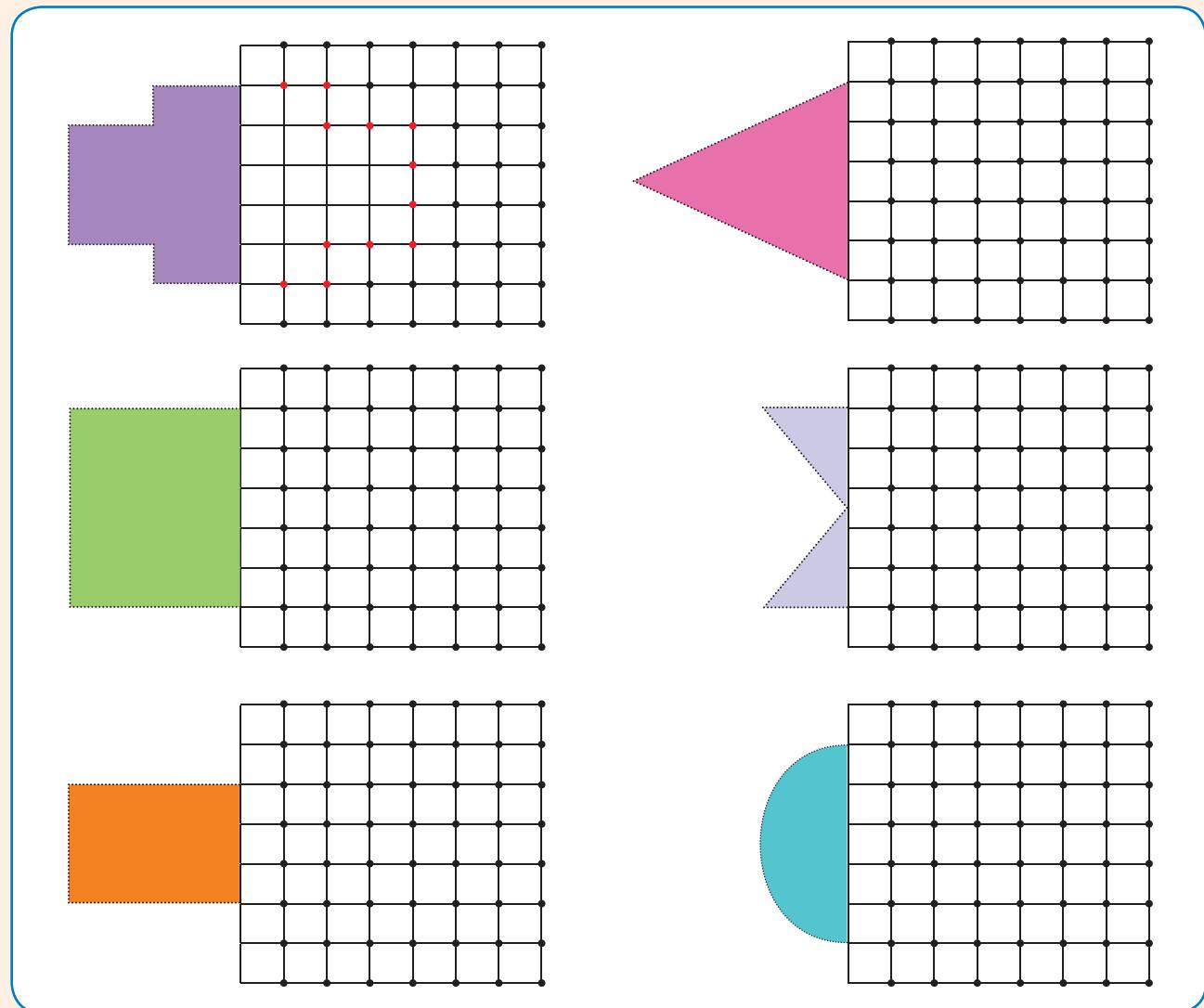
8

9

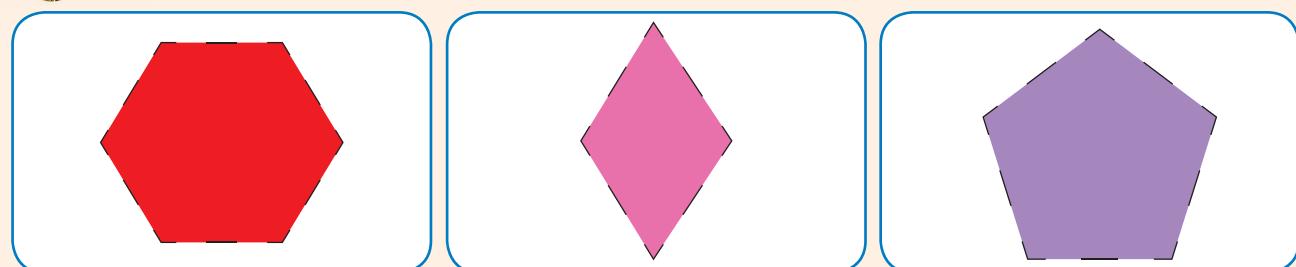
10



Dwweba lona lomunye hhafu wabunjwa usebentisa ibhodi yegridi kukusita.



Dwweba umugca kwehlukanisa labobunjwa kibili bente emacala labukeka afana ncwe.

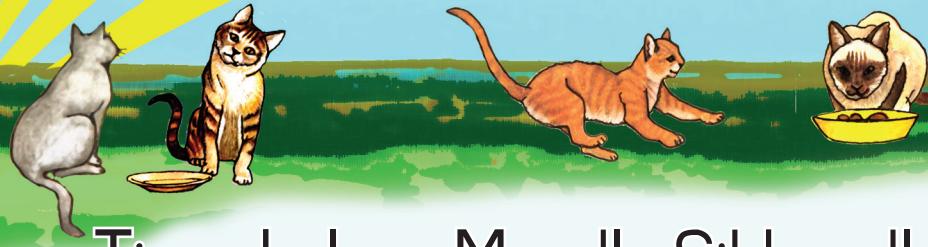


11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:

q5



Ithemu 3

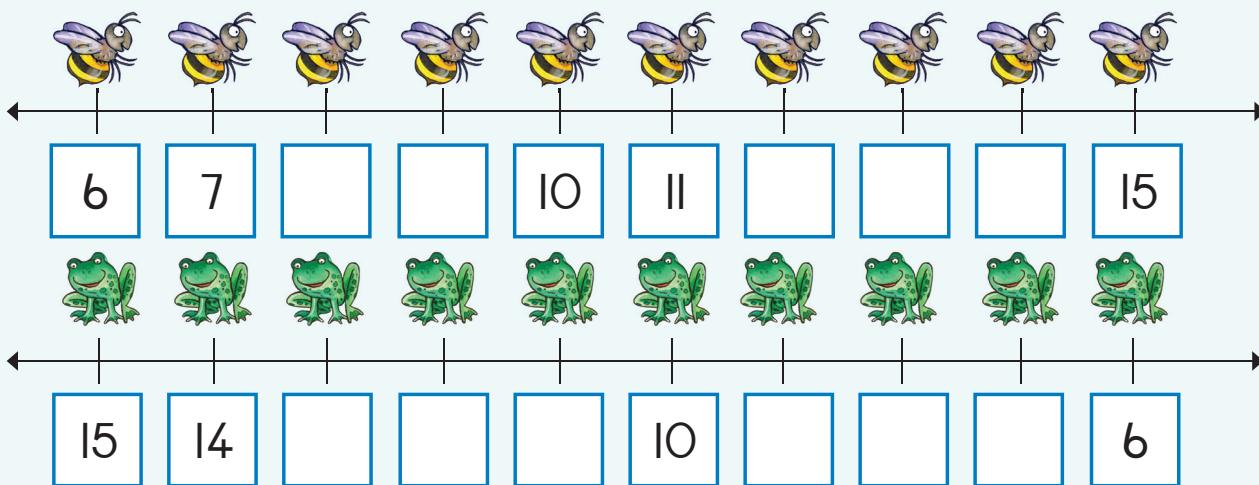


Gcwalisa letinombolo letishiyiwe.

10	II					15
q	10					



Gcwalisa letinombolo letishiyiwe.



Gcwalisa imphendvulo.

$10 + 1 =$	II
$10 + 2 =$	
$10 + 5 =$	
$10 + 3 =$	

$15 - 10 =$	
$14 - 10 =$	
$12 - 10 =$	
$II - 10 =$	



62

0 | 2 3 4 5 6 7 8 9 10



Bala kahle ngakunye ufake umbala esibalweni ubese ufaka
umbala elucetwini lwemphica lolufanele lolunenombolo lengiyo.
Sebentisa umbala lofanako. Sikwentele kwekucala.

10 + 1 ngalokubovu

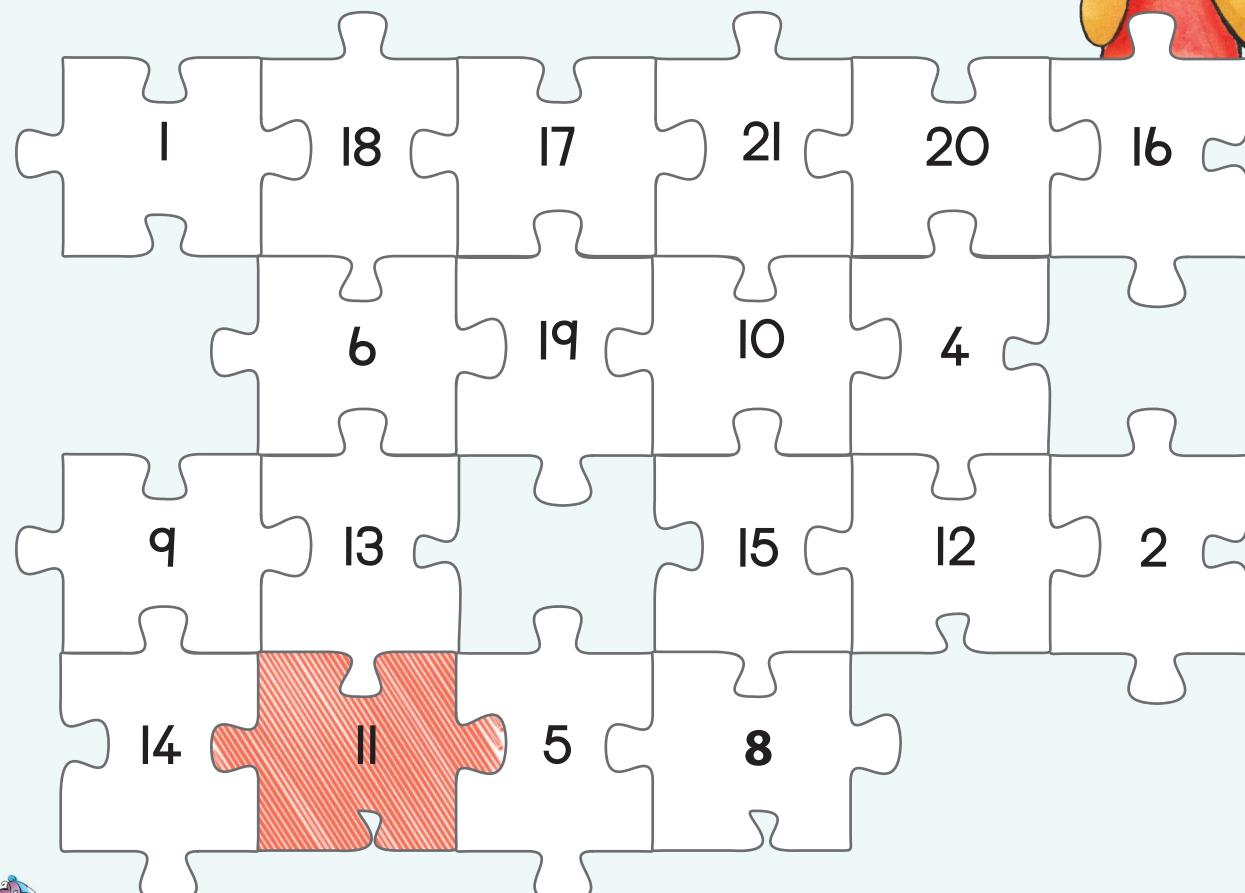
10 + 3 ngaloku phinku

10 + 5 ngaloku lingangane

10 + 4 ngalokumtfubi

10 + 0 ngaloku luhlata

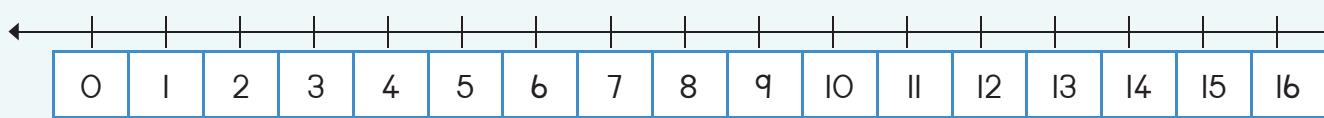
10 + 2 ngalokuli-orintji



Khombisa lishumi nakune kulomugca-nombolo:



Teacher: Sign:
Date:



11 12 13 14 15 16 17 18 19 20



96



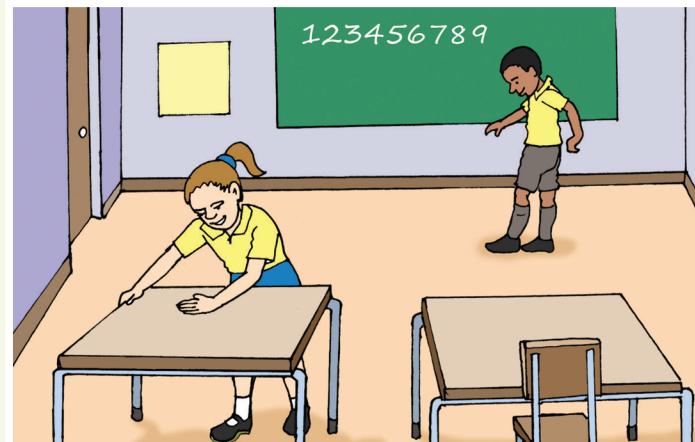
Budze

Ithemu 3



Kala budze nebulanti belidesiki noma
litafula usebentisa budze besandla sakho.
Mangaki emahlandla esandla lakenta
budze belitafula?

Mangaki emahlandla esandla lakenta
bubanti?



Budze ngu _____ wemahlandla
esandla.

Bubanti ngu _____ wemahlandla
esandla.



Mangaki emahlandla elunyawo ngasecadzini?

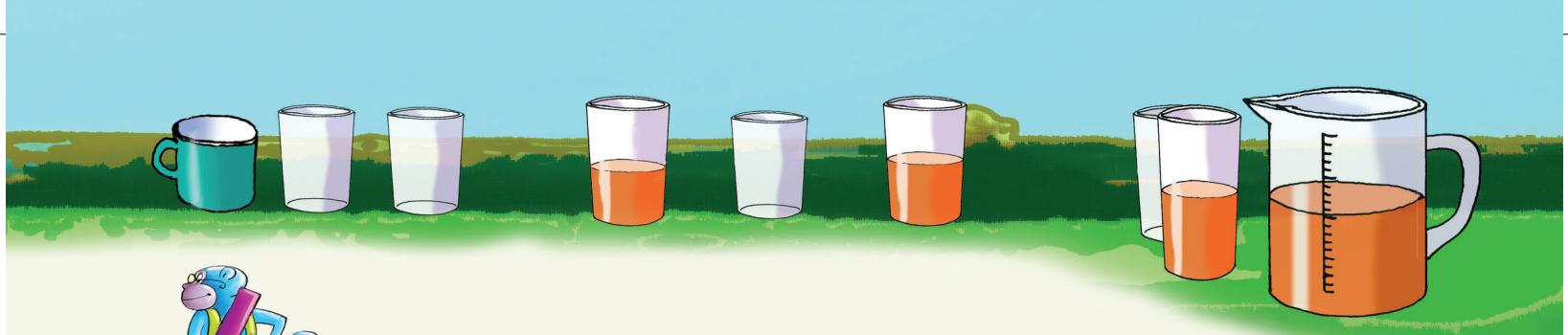


Gcwalisa imphendvulo.

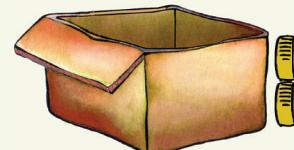
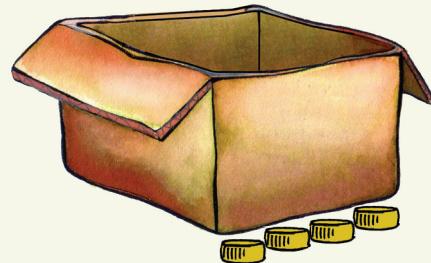


Budze ngu _____ wemahlandla
esandla.





Buyini budze nebubanti balelibhokisi?

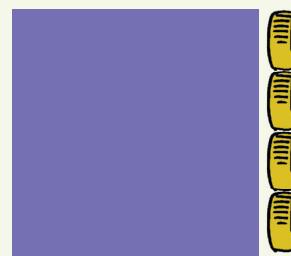
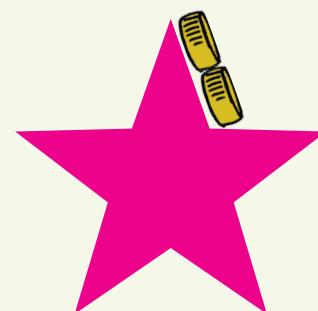
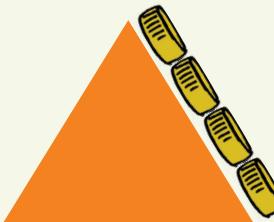


Budze ngu _____ umgamu wetivimbo telibhodlela.

Bubanti ngu _____ umgamu wetivimbo telibhodlela.



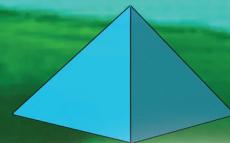
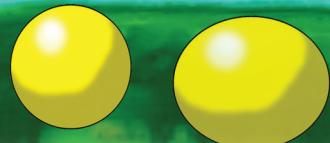
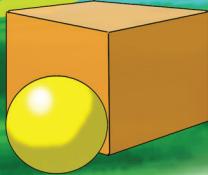
Tingaki tivimbo telibhodlela kumgamu welicala?



Teacher:
Sign:
Date:



97



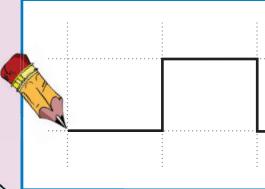
Nombolo 16

Sibuyeketo:

Tifundzise kubhala ligama nombolo ucedzele iphethini.

7

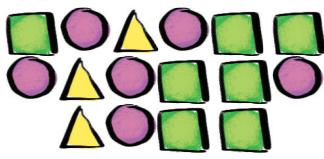
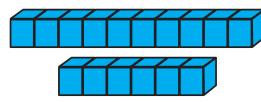
sikhombisa



Condzanisa letitfombe.

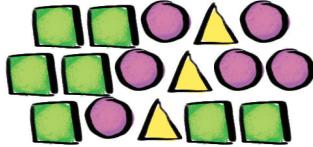


Tsatsisa letinombolo.

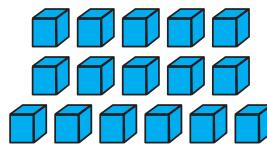


10
6

16



16



10
6

16 16 16 16

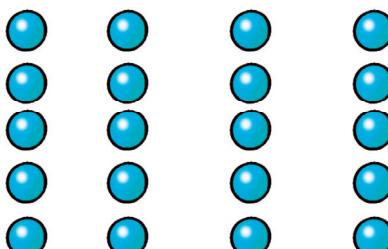
lilhumi-nesitfupha

16 16 16 16

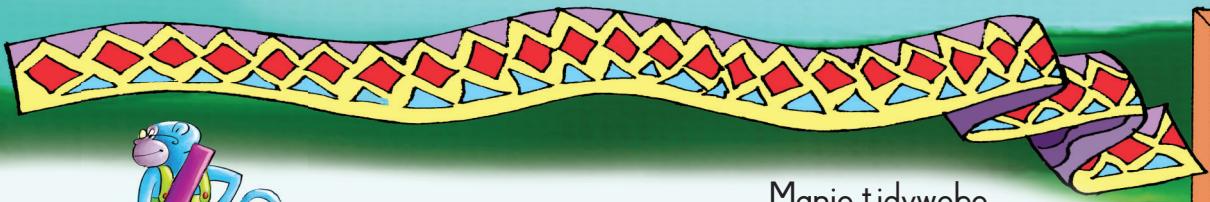
lilhumi-nesitfupha



Biyela buhlalu
lobuli-16 kuphela.



Bungaki lobusele? _____



Dweba li-16 letintfo.

Manje tidvwebe
ngendlela leyehlukile.



Gcwalisa inombolo leshiyiwe.

2	3	4
19		21
17		19



Cedzela lithebula. Luhele ngalunye lunesitfombe,
inombolo neligama laleyo nombolo.

	16	
		lishumi-nesitfupha



Ngubani kanye ngaphasi
kwe-16? _____

Ngubani kanye ngetulu
kwe-16? _____



Ngubani kanye ngaphasi kwelishumi - nesitfupha?

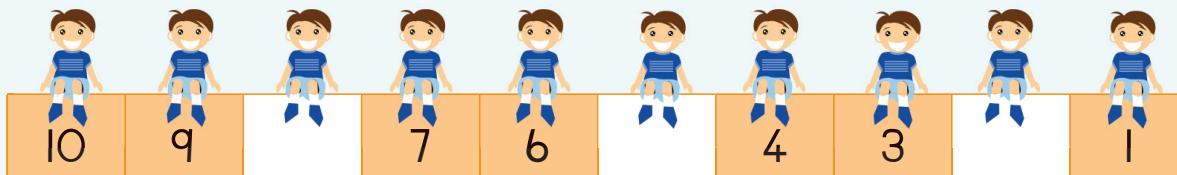
Ngubani kibili ngaphasi kwelishumi - nesitfupha?

Ngubani kanye ngetulu kwelishumi - nesitfupha?

Ngubani kibili ngetulu kwelishumi - nesitfupha?



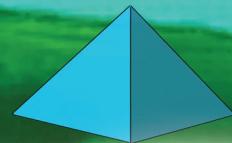
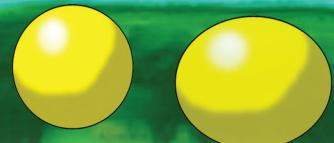
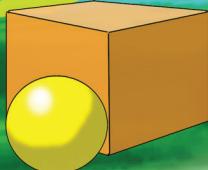
Gcwalisa letinombolo letishiyiwe.



11 12 13 14 15 16 17 18 19 20



98



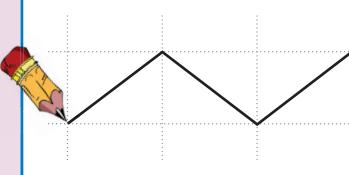
Nombolo 17

Sibuyeketo:

Tifundzise kubhala ligama nombolo ucedzele iphethini.

8

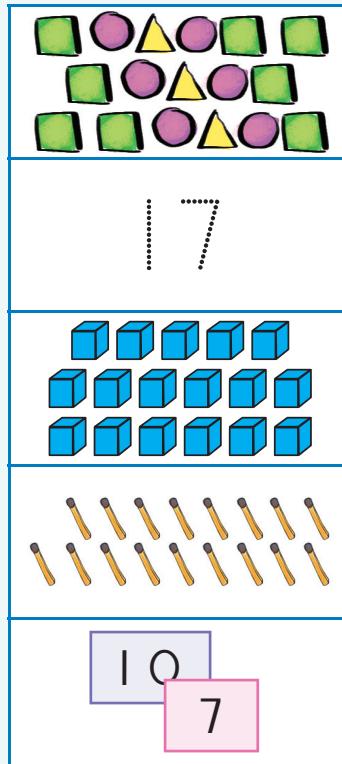
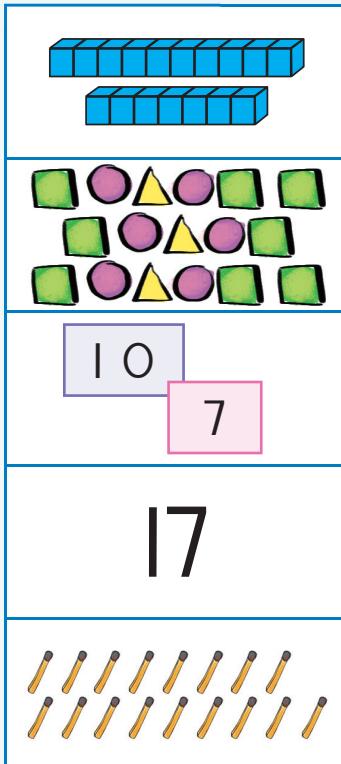
siphohhlongo



Condzanisa letitfombe.



Tsatsisa letinombolo.



17 17 17 17

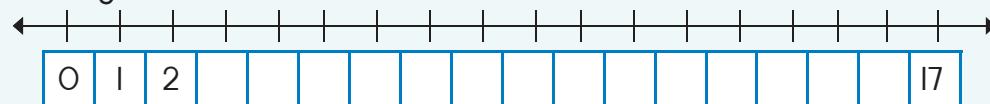
lishumi–nesikhombisa

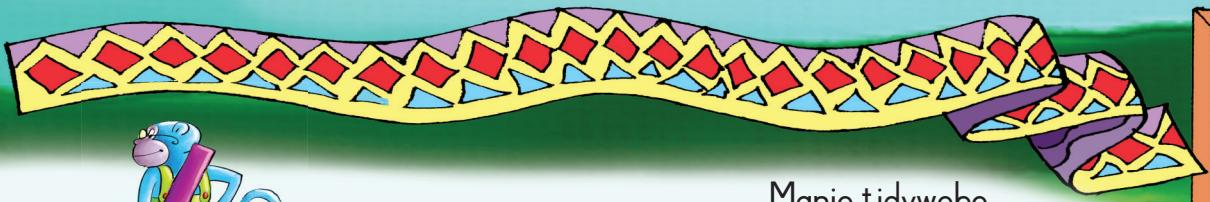
17 17 17 17

lishumi–nesikhombisa



Cedzela lomugca-nombolo.





Dweba li-17 letintfo.

Manje tidvwebe
ngendlela leyehlukile.



Nguyiphi inombolo
lelandzelako?

16	17	
24	25	
17	18	



Cedzela lithebula.
Luhele ngalunye
lunesitfombe,
inombolo neligama
laleyo nombolo.

	17	
		lishumi-nesikhombisa



Ngubani kunge ngaphasi kwelishumi-nesikhombisa?

Ngubani kibili ngaphasi kwelishumi-nesikhombisa?

Ngubani kunge ngetulu kwelishumi-nesikhombisa?

Ngubani kibili ngetulu kwelishumi-nesikhombisa?



Gcwalisa letinombolo letishiyiwe.

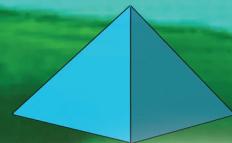
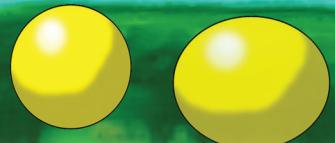
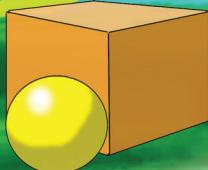
Leti-ke tibuye tibitwe ngekutsi
tinombolo-mashiyana.

	2		4		6		8		10
	12		14		16		18		20

11 12 13 14 15 16 17 18 19 20



qq



Nombolo 18

Sibuyeketo:

Tifundzise kubhala ligama nombolo ucedzele iphethini.

q

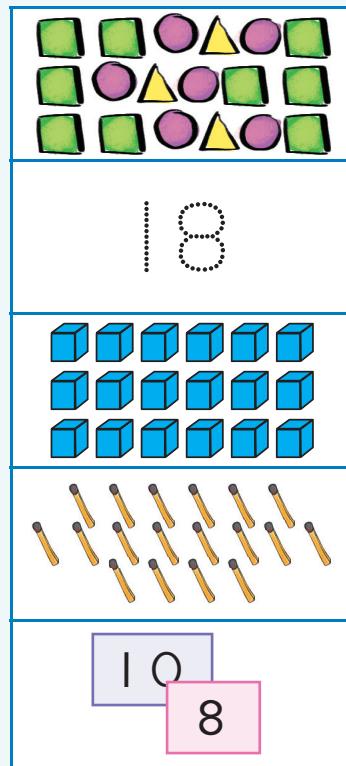
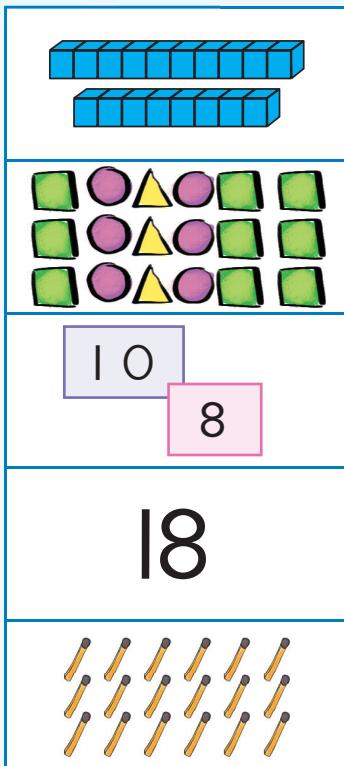
imfica



Condzanisa letitfombe.



Tsatsisa letinombolo.



18 18 18 18

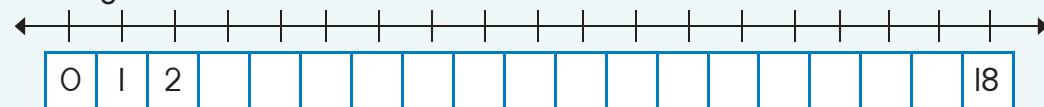
lilumi–nesiphohlongo

18 18 18 18

lilumi–nesiphohlongo



Cedzela lomugca-nombolo.



70

0

1

2

3

4

5

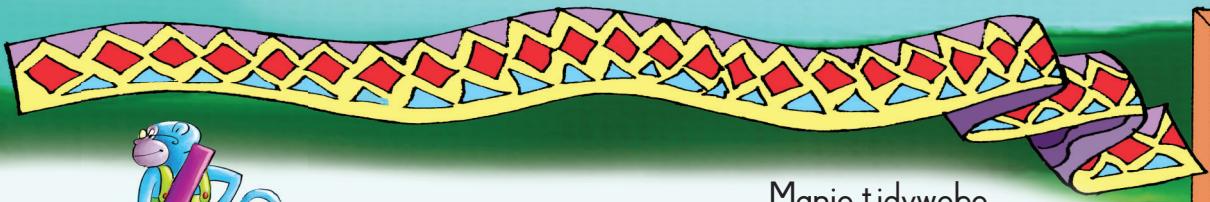
6

7

8

9

10



Dweba li-18 letintfo.

Manje tidvwebe
ngendlela leyehlukile.



Nguyiphi inombolo
lelandzelako?

8	q	
33	34	
0	I	



Cedzela lithebula.
Luhele ngalunye
lunesitfombe,
inombolo neligama
laleyo nombolo.

	18	
		lishumi—nesiphohlongo



Ngubani kanye ngaphasi kwe-18?

Ngubani kubili ngaphasi kwe-18?

Ngubani kanye ngetulu kwe-18?

Ngubani kubili ngetulu kwe-18?



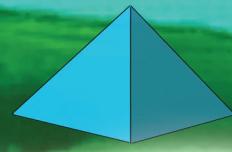
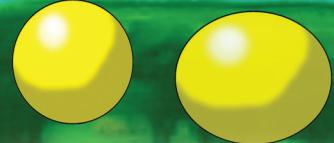
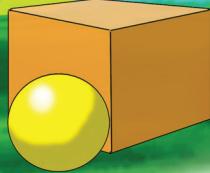
Gcwalisa letinombolo letishiyiwe.

I	2		4	5	6	7		9	10
II		13	14	15		17	18		20

11 12 13 14 15 16 17 18 19 20



100



Nombolo 19

Sibuyeketo:

Tifundzise kubhala ligama nombolo ucedzele iphethini.

10

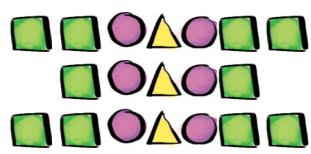
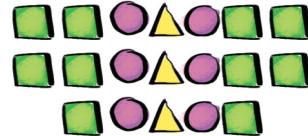
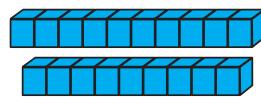
lishumi



Condzanisa letitfombe.



Tsatsisa letinombolo.

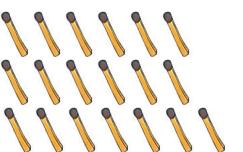
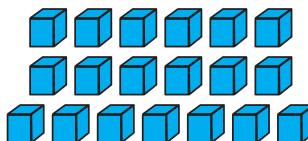


19

10

9

19



10
9

19 19 19 19

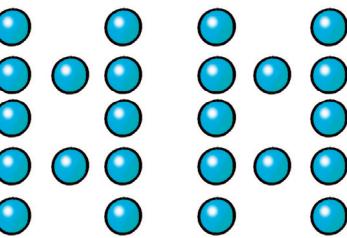
lishumi–nemfica

19 19 19 19

lishumi–nemfica



Biyela buhlalu lobuli-19 kuphela.



Bungaki lobusele? _____



O

1

2

3

4

5

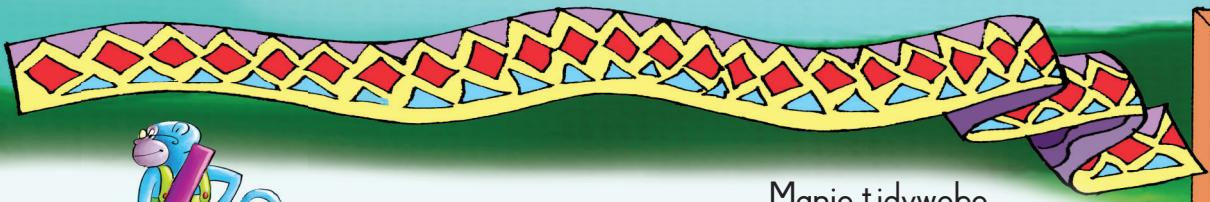
6

7

8

9

10



Dweba li-19 letintfo.

Manje tidvwebe
ngendlela leyehlukile.



Nguyiphi inombolo
leta emkhatsini?

14		16
35		37
8		10



Cedzela lithebulu. Luhele ngalunye lunesitfombe, inombolo neligama laleyo
nombolo.

	19	
		lishumi-nemfica



Ngubani kune ngaphasi kwe-19?

Ngubani kubili ngaphasi kwe-19?

Ngubani kune ngetulu kwe-19?

Ngubani kubili ngetulu kwe-19?



Gcwalisa letinombolo letishiyiwe.

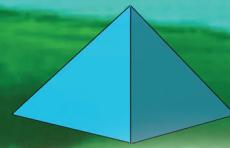
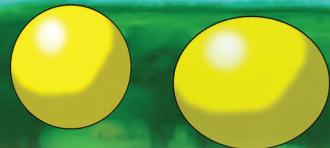
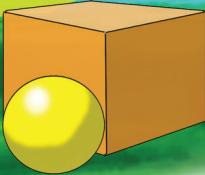
Leti-ke tibuye tibitwe
ngekutsi tinombolo
malinganisa.

I		3		5		7		9	
II		13		15		17		19	

11 12 13 14 15 16 17 18 19 20



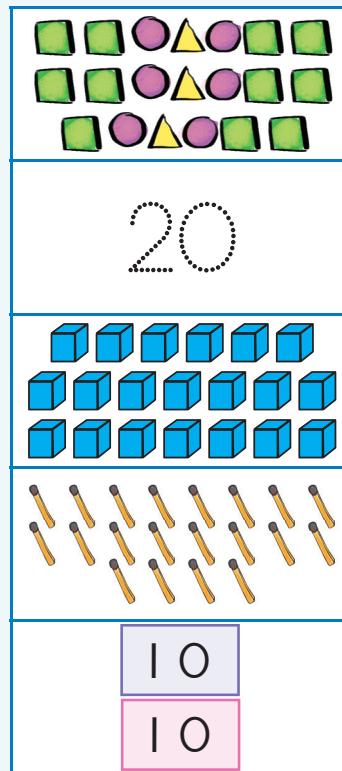
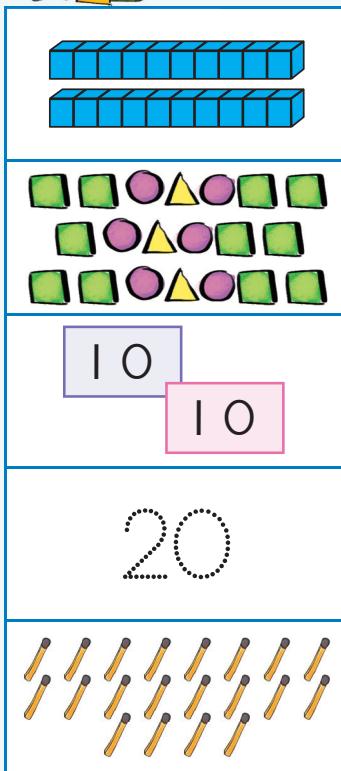
101



Nombolo 20



Condzanisa letitfombe.



Tsatsisa letinombolo.

20 20 20 20

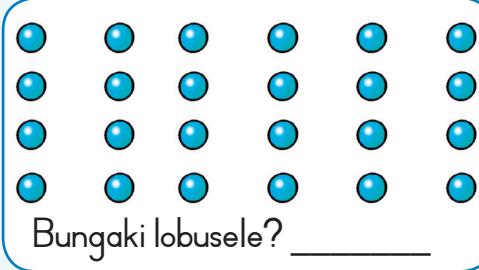
emashumi lamabili

20 20 20 20

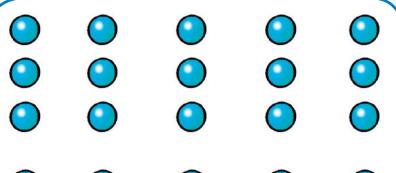
emashumi lamabili



Biyela buhlalu lobungema-20 kuphela.



Bungaki lobusele? _____



Bungaki lobusele? _____



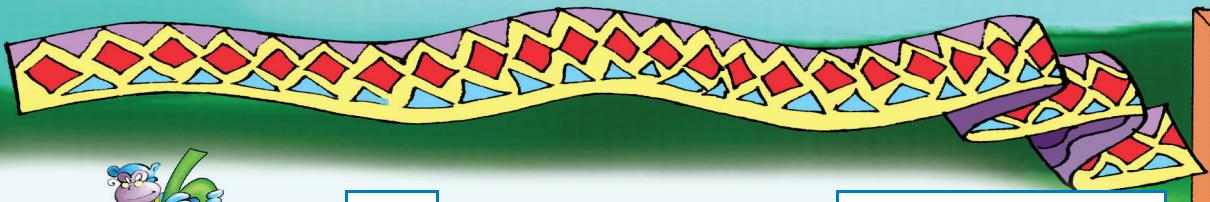
Cedzela lithebula. Luhele ngalunye lunesitfombe, inombolo neligama laleyo nombolo.

	20	emashumi lamabili
		emashumi lamabili
20		



Ngubani kunye ngaphasi kwe-20? _____

Ngubani kunye ngetulu kwe-20? _____



Chumanisa
inombolo
neligama.

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



Gicwalisa inombolo leshiyiwe.

Ngembili		Kamuva
16	17	
	12	
	14	
	9	10
	6	

kune
sikhombisa
imfica
kutsatfu
lishumi-nanye
lishumi-nambili
kunye
kubili
siphohlongo
licandza
sihlanu
sitfupha
lishumi-nantsatfu
lishumi
lishumi-nane



Sebentisa emagama ngaphasi
na ngetulu kucedzela loku:



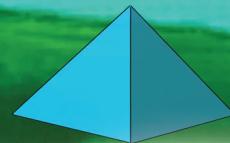
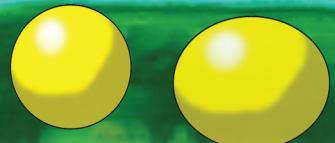
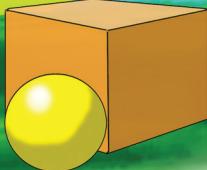
35 u _____ kwa 38

79 u _____ kwa 65



11 12 13 14 15 16 17 18 19 20

102



Kuhlanganisa



Biyela inombolo lenkhudlwana ebhulokini ngalinye.

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

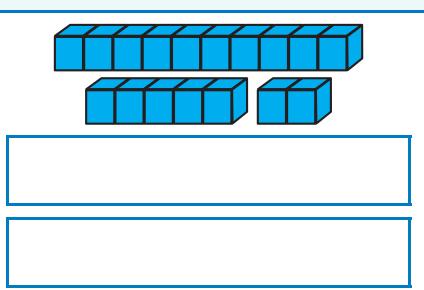
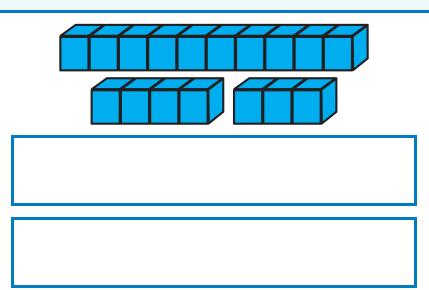
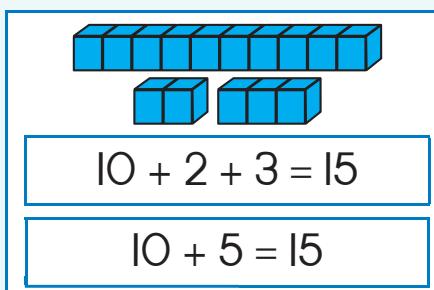


Hlanganisa loku lokulandzelako. Cala ngekubeka inombolo lenkhulukati kucala.

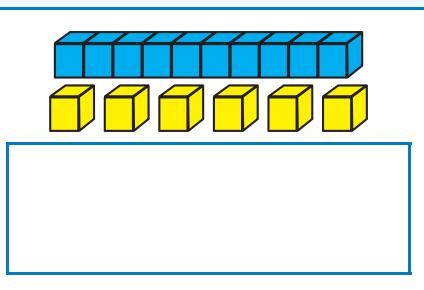
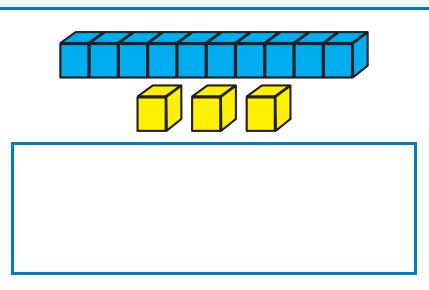
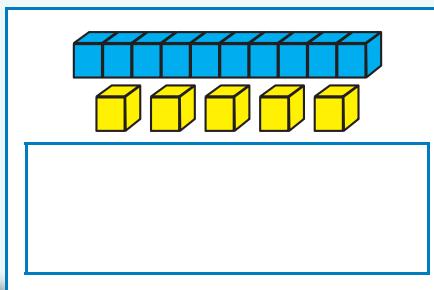


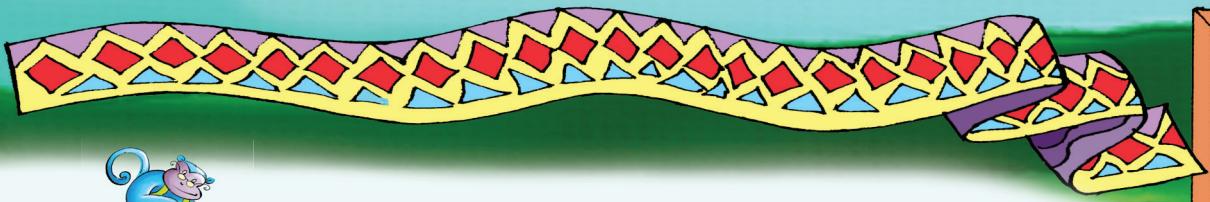
Hlanganisa emabhuholi.

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

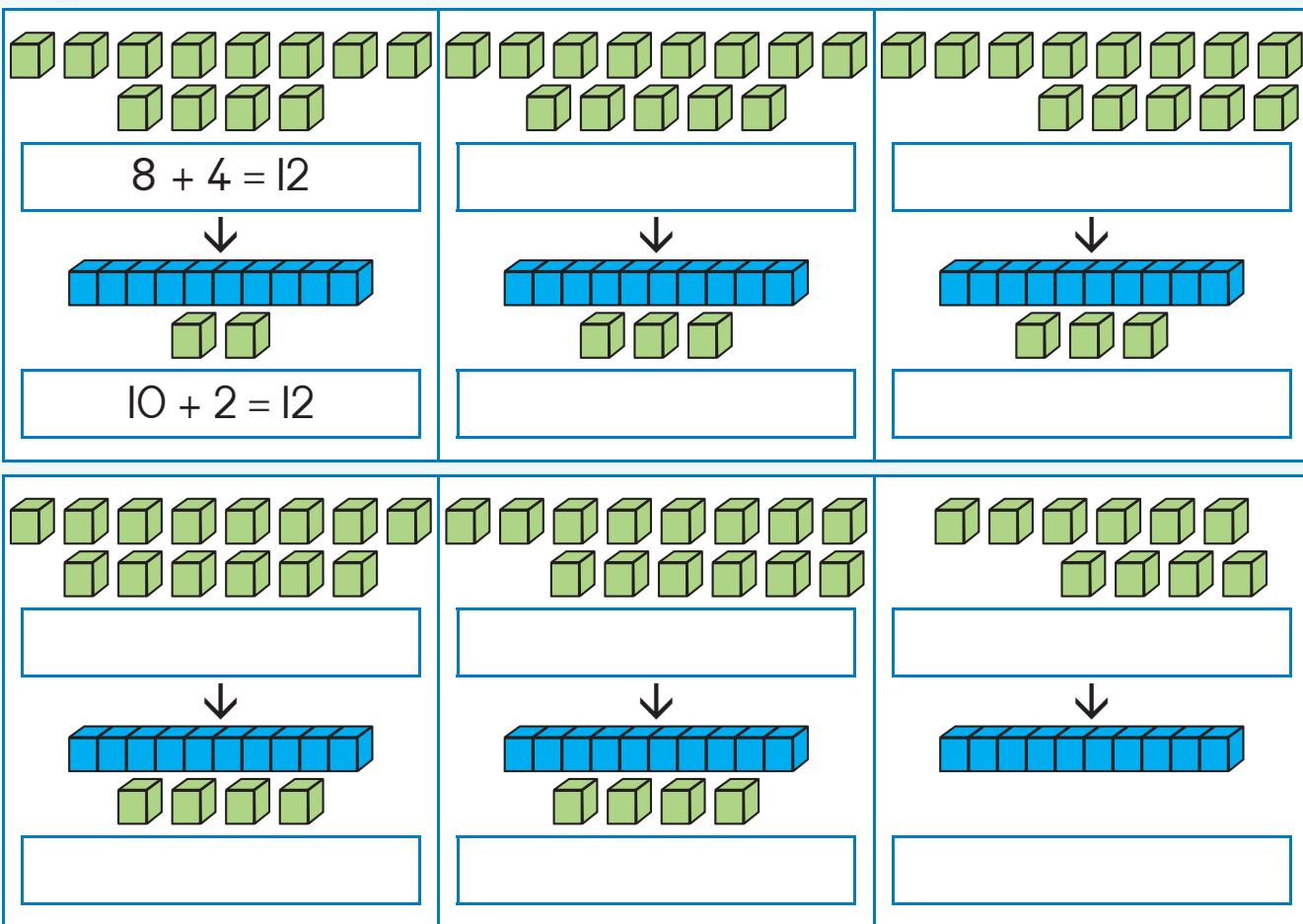


Bhala umusho nombolo waloku lokulandzelako:





Bhala umusho wangakunye ngakunye kwaloku lokulandzelako:

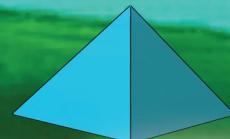
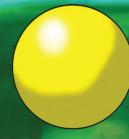
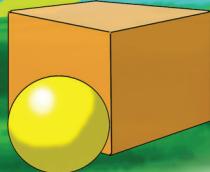


Gicwala letinombolo letishiyiwe.

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



103

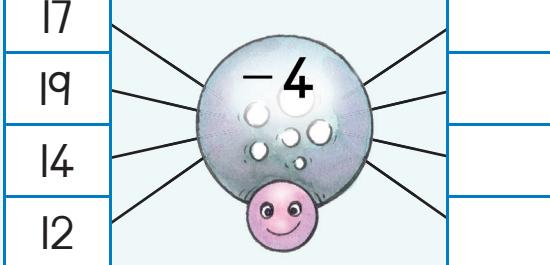


Kususa

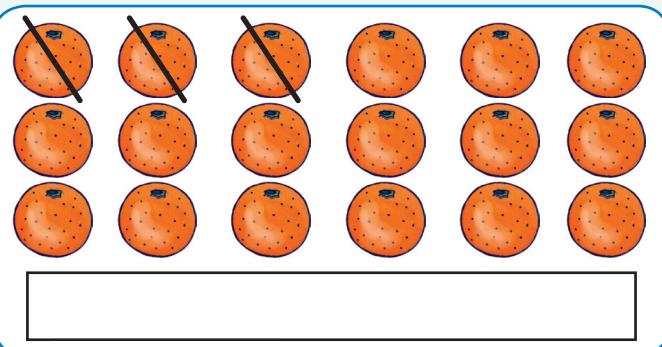


Bala kahle.

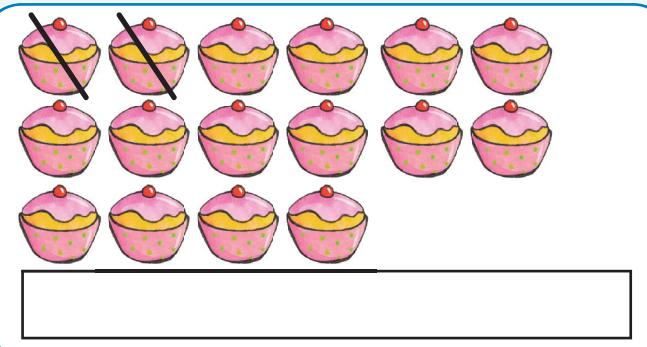
17
19
14
12



Bhala umusho nombolo.

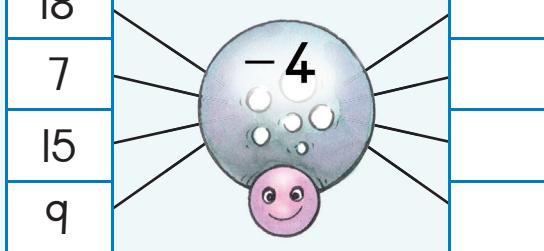


Bhala umusho nombolo.

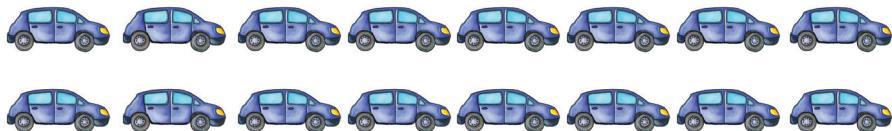


Bala kahle.

18
7
15
9



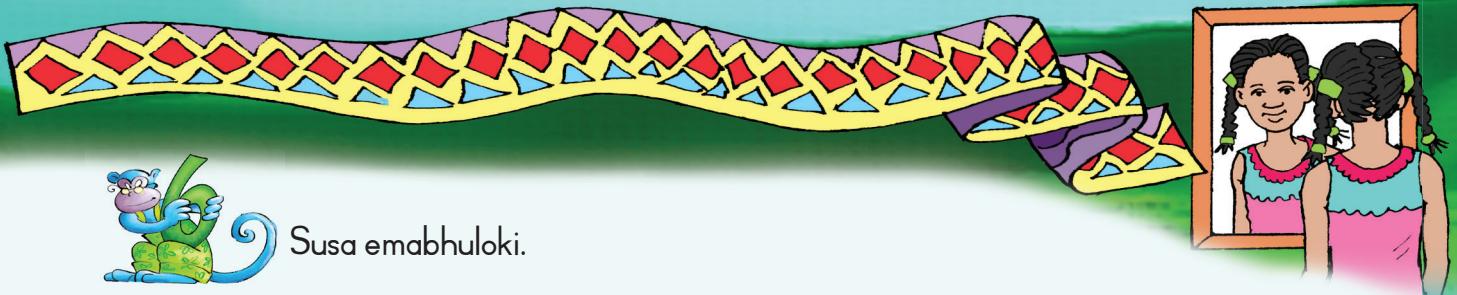
Cedzela letibalo usebentisa lemidvwebo.



$$16 - \boxed{} = \boxed{}$$



$$10 + \boxed{} = \boxed{}$$



Susa emabhuloki.

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



Bala kahle loku lokulandzelako:

$11 + 7 = \boxed{}$ $11 + 4 + \boxed{} = \boxed{}$	$11 + 7 = \boxed{}$ $11 + 5 + \boxed{} = \boxed{}$
$19 - 7 = \boxed{}$ $19 - (5 + \boxed{}) = \boxed{}$	$17 - 9 = \boxed{}$ $17 - (7 + \boxed{}) = \boxed{}$



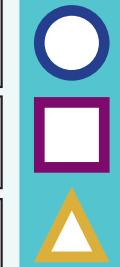
Cedzela loku lokulandzelako:

Kuphindza kibili 5 ngu	<input type="text"/>	Kuphindza kibili 3 ngu	<input type="text"/>	Kuphindza kibili 4 ngu	<input type="text"/>
Kuphindza kibili 7 ngu	<input type="text"/>	Kuphindza kibili 2 ngu	<input type="text"/>	Kuphindza kibili 8 ngu	<input type="text"/>
Kuphindza kibili 10 ngu	<input type="text"/>	Kuphindza kibili 9 ngu	<input type="text"/>	Kuphindza kibili 1 ngu	<input type="text"/>

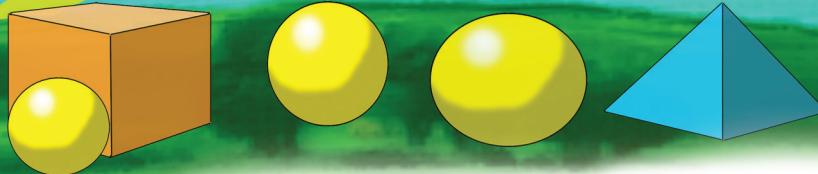


Phendvula loku lokulandzelako:

$9 + 9 - 1 =$	<input type="text"/>	noma	$Kuphindza kibili 9 - 1 =$	<input type="text"/>
	<input type="text"/>	noma	$Kuphindza kibili 5 - 1 =$	<input type="text"/>
$4 + 4 - 1 =$	<input type="text"/>	noma		



104



Ithemu 4



Bala kutsi mangaki emakati lahleti elangeni. Ebusuku, lamanye awo ayahamba alale emva kweludvonga. Bala kahle utfole kutsi mangaki langemuva kweludvonga bese ubhala inombolo phansi.

$3 + \square = 8$

$4 + \square = \square$



Sombulula loku lokulandzelako.
Ungenta umdvwebo kukusita.



Lerato ebena ma-4 ema-orintji. Peter wamupha li-13 lema-orintji.
Mangaki ema-orintji lase anawo manje?

Mandla unesi-5 semakhirayoni. Ana unesi-8 semakhirayoni.
Ngubani lonemakhirayoni lamancane?



80

0

1

2

3

4

5

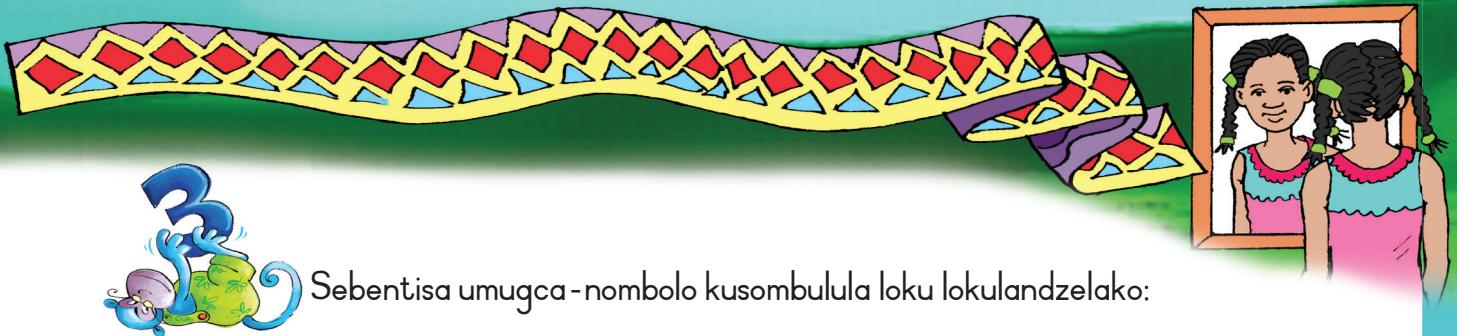
6

7

8

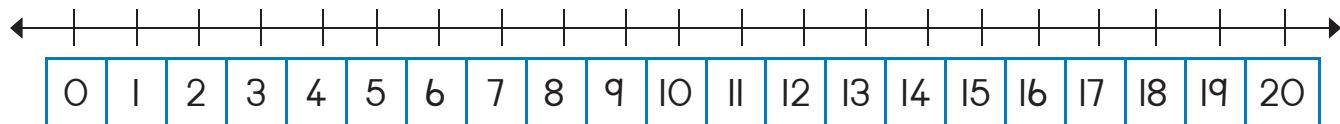
9

10

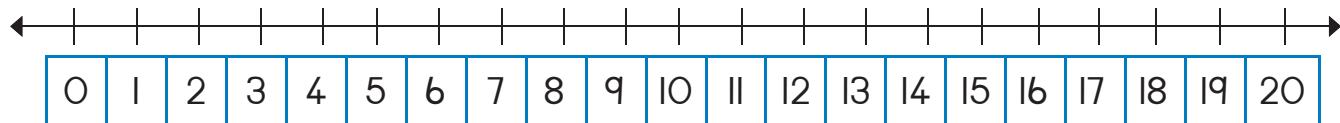


Sebentisa umugca - nombolo kusombulula loku lokulandzelako:

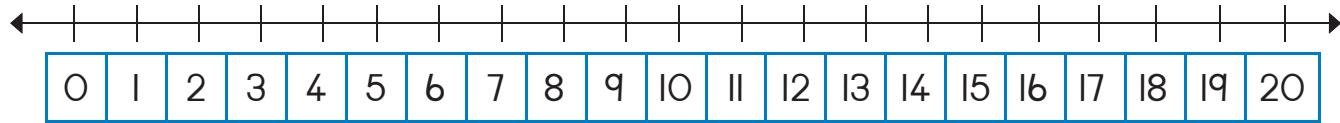
Thandi unesi - 6 setimabula letiluhlata ne - q
yaletilingangane. Tingaki timabula lase anato?



Lerato uneli - 16 letimabula. Siphohlongo sato siluhlata leti - ke letisele
tilingangane. Tingaki timabula lelingangane timabula lanato Lerato?



Thandi uneli - 19 labobhana. Themba uneli - 10 labobhana.
Bangaki bobhana lanabo Thandi kwengca Themba?



Ngutiphi tinombolo letifolakala emkhatsini wa 25 na 30?

Biyela lenombolo lengu 1 ngetulu kwa 76.

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

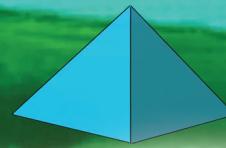
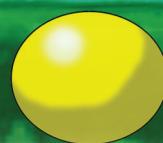
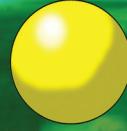
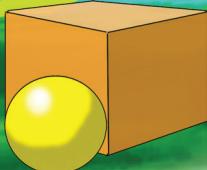


Biyela lenombolo lengu 2 ngetulu kwa 76.

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



105



Tinombolo letihlelenjisiwe



Ngubani lowaphuma embili emcudzelwaneni?
Bhala sikhundla ngentasi kwabo.

Sipho

Lerato

John

Peter

Ana



2

3



Tidwewebe
ebhentjini
lelisembili.

Litfusi

Ligolide

Insimbi-bovu

Ngubani lotfole ligolide? _____

Ngubani lotfole litfusi? _____



Dvweba lucu lwebuhlalu
kanjengalokulandzelako:

Buhlalu bekucala bulingangane.
Buhlalu besibili bubovu.
Buhlalu besitsatfu buluhlata.
Buhlalu besine bumtfubi.
Buhlalu besihlanu bulingangane.
Buhlalu besitfupha bubovu.
Buhlalu besikhombisa buluhlata.
Buhlalu besiphohlongo bumtfubi.
Buhlalu bemfica bulingangane.
Buhlalu belishumi bubovu.

Lucu lwami lwebuhlalu.



82

0

1

2

3

4

5

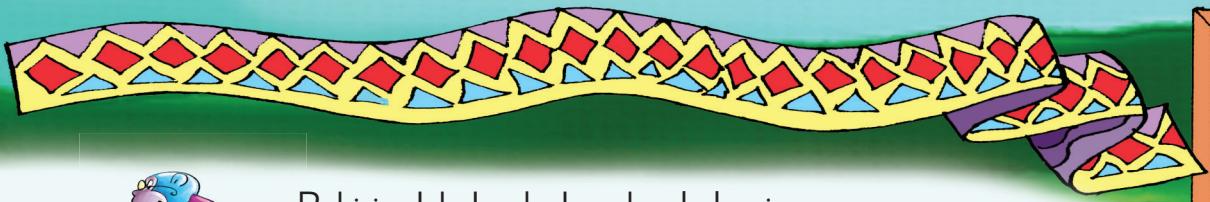
6

7

8

9

10



Bukisia lokulandzelana kwabobunjwa.
Kopa labobunjwa ngetikhundla letingito ethebuleni.
Sikwentele kwekucala.



Ngumuphi bunjwa lo:

Wesine		Wesikhombisa	
Wesihlanu		Wemfica	
Wesibili		Wekugcina	
Wesitsatfu		Wesitfupha	



Yenta loku lokulandzelako:



Faka umbala lobovu kundilinga yekucala.



Faka umbala lomtfubi kundilinga yesihlanu.



Faka umbala lolingangane kundilinga yesiphohlongo.



Dweba umugca nombolo umugca weli-10 kuya ku 20.
Biyela inombolo yesitsatfu neyesiphohlongo.

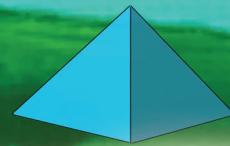
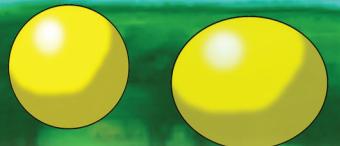
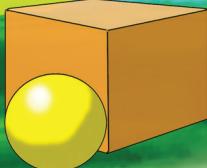


Teacher:

Sign:

Date:

106

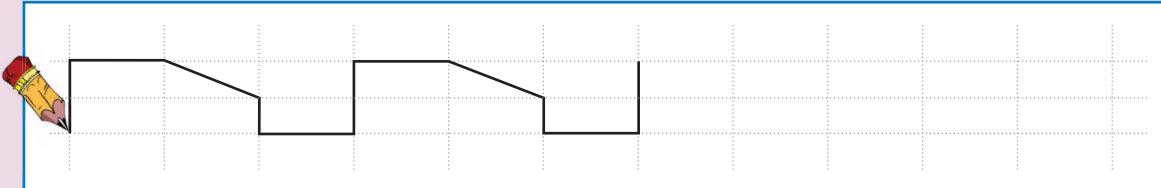


Tintfo nabobunjwa

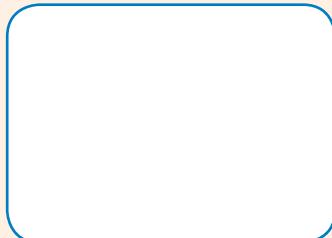
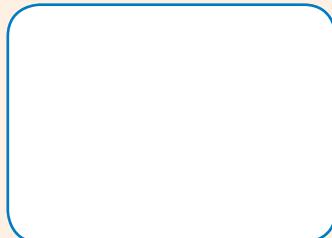
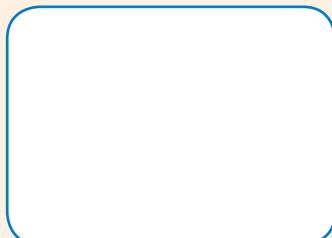
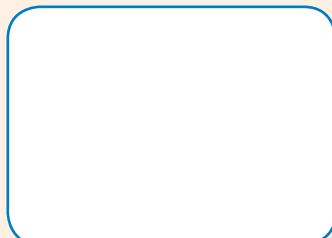
Ithemu 4

Sibuyeketo:

Sibuyeketo: Cedzela lephethini.



Tfola titfombe letimbili tebhola natimbili futsi telibhokisi kuphephandzaba noma kumagazini bese utinamatsisela ngentasi.



Dwweba indilinga lelingangane ibiyele tonkhe letintfo lettingashelela.
Dwweba sikwele lesibovu sibiyele tonkhe letintfo lettingagicika.



84

0

1

2

3

4

5

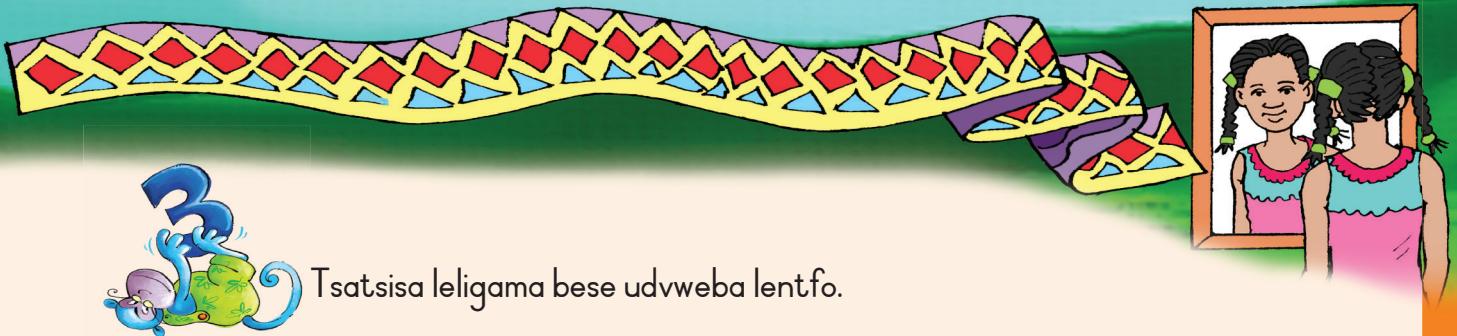
6

7

8

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10



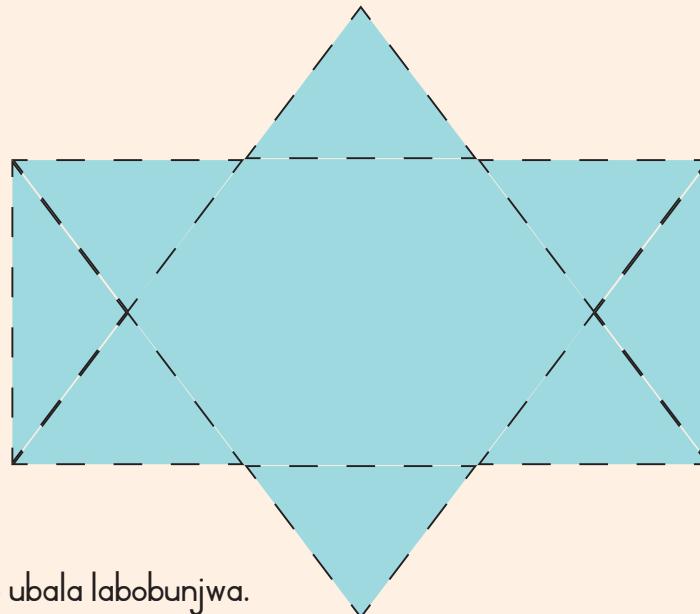
Tsatsisa leligama bese udvweba lentfo.

libhokisi

ibhola



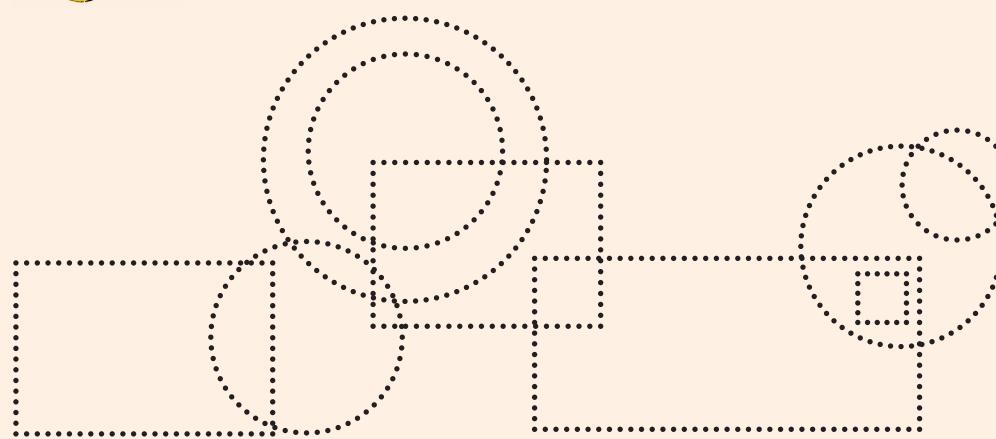
Bala bonkhe bocalantsatfu bese ubhala lenombolo.



Imphendvulo:



Tsatsisa bese ubala labobunjwa.



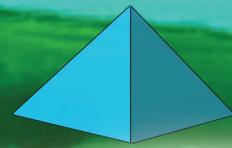
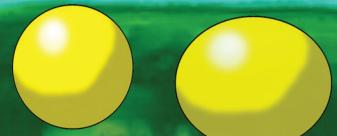
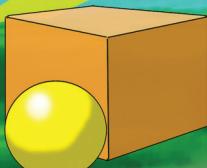
Tindilinga



Tikwele



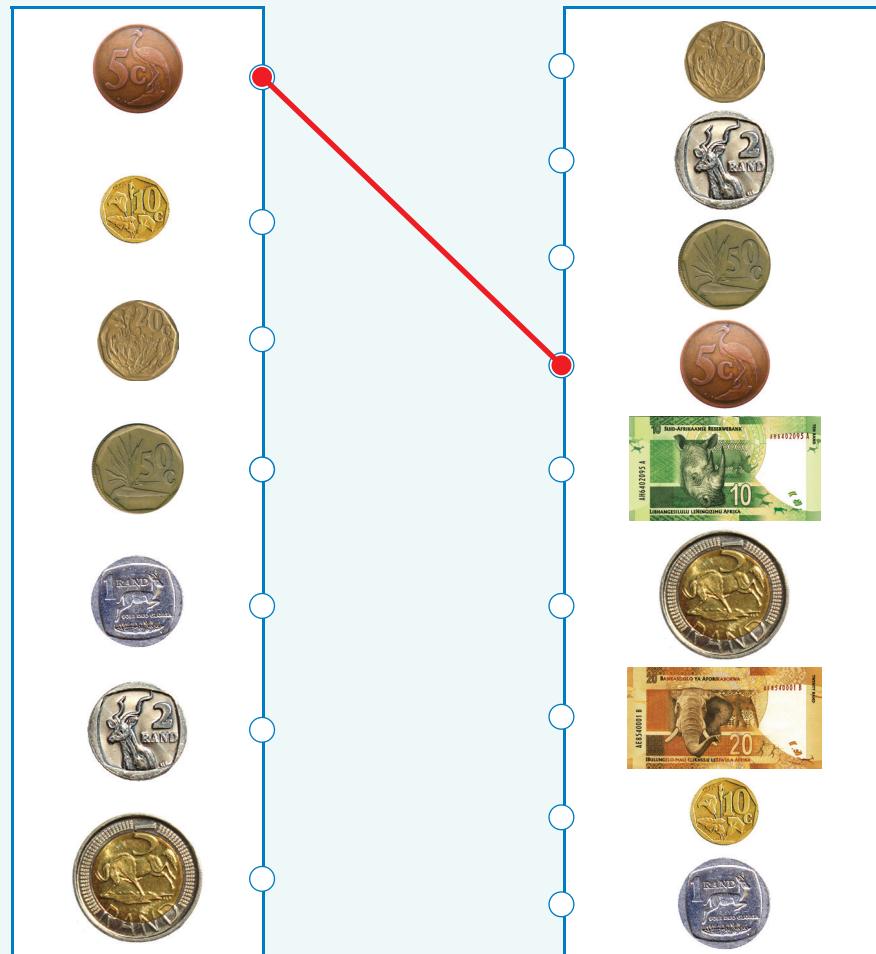
107



Ithemu 4

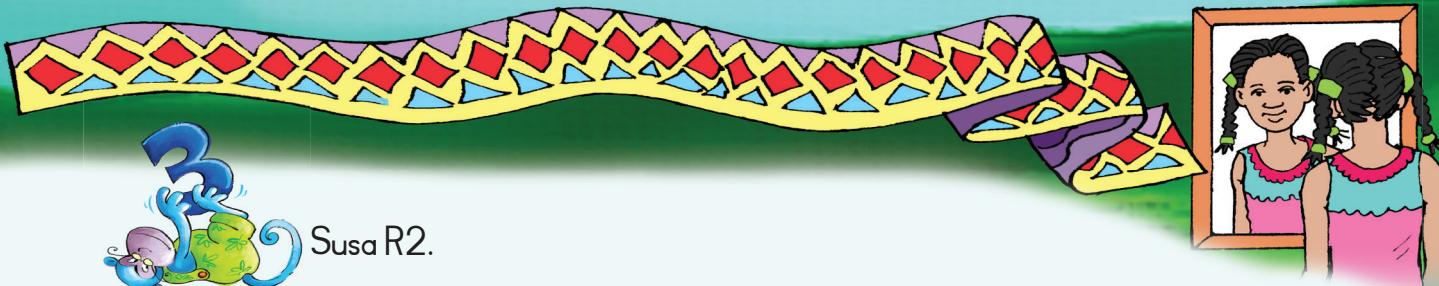


Nguyiphi imali
yebuhhehlu
longayicondzanisa?



Tick the coins and notes in each block that will give you the following:

RIO		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
R20		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
RI5		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



3 Susa R2.

 10	 2	
 10	 2	 1
$RI2 - R2 = RIO$		

4 Susa R5.

 10	 2	
 10	 2	 1
$RI5 - R5 = RIO$		

5 Ngutiphi tindlela letehlukene longatidvweba kubutsanisa ngato R20?
Sikwentele kwekucala.

 10	 2	 2

6 Biyela imali emgceni
ngamunye longatsenga
ngayo lokunyentu kakhulu.

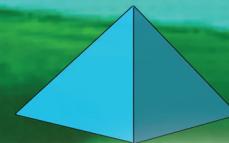
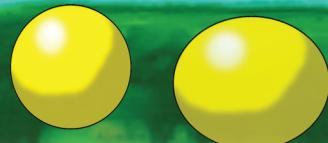
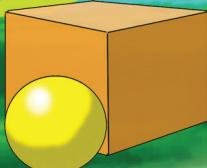
 1	 2	 2	 1
 2	 1	 1	 1
 1	 2	 2	 1



Teacher:
Sign:
Date:



108



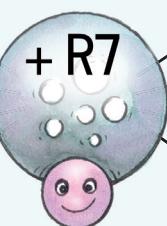
Ithemu 4

Imali futsi



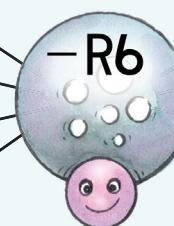
Bala kahle.

R5
R9
R7
R4



Bala kahle.

RI3
RI5
RI7
RI4



Gcwalisa imphendvulo.

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



Ngukuphi lokungetulu?
Biyela imphendvulo yakho.

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



Hlanganisa letinombolo kuvundle kubuye futsi kwehle bese ugcwalisa timphendvulo.

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



88

O

1

2

3

4

5

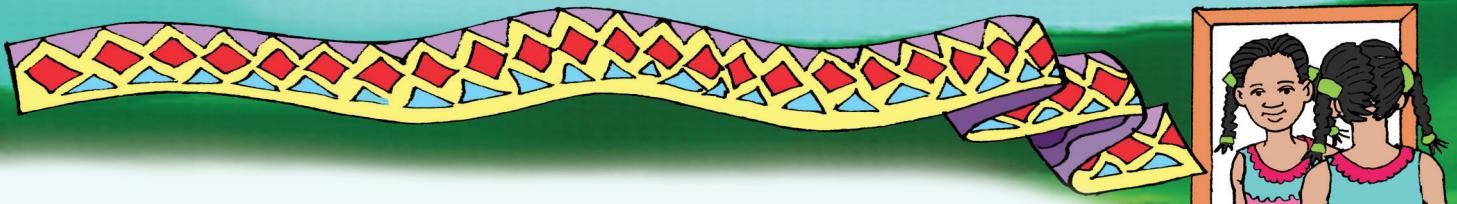
6

7

8

9

10



Bukisia sibonelo
bese ucedzela
lokusele.



James utsenge sinkhwa nga R8.
Usibhadalele nga RIO weliphepha.
Ngumalini intjintji layitfolile?

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



Make waBusi utsenge sigcoko
nga RI7. Ubhadale ngemaphepha
lamabili abo- RIO. Ngumalini
intjintji layitfolile.



Lusuku lwekutalwa Iwa Judy
belunge Lisontfo.
Utfole R5 lobuya kudzadzewabo, R2
lobuya kumnakabo na RIO lobuya
kumzala wakhe. Ngumalini imali
layitfolile seyijyonkhe?

Utsini umbuto?

Bhala phasi letinombolo.

Bhala phasi sibalo bese usibala kahle.

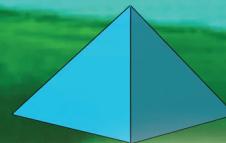
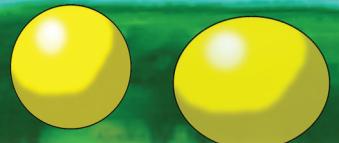
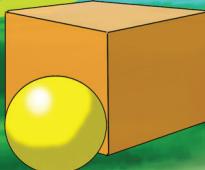
Utsini umbuto?

Bhala phasi letinombolo.

Bhala phasi sibalo bese usibala kahle.



10q

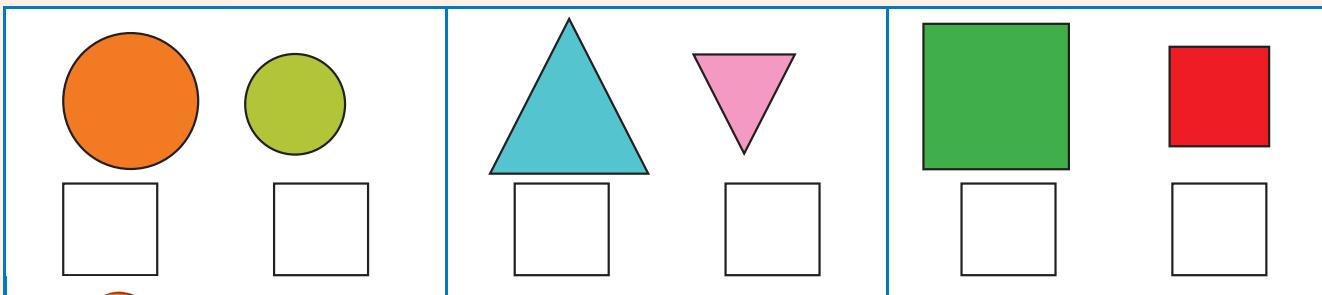


Ithemu 4

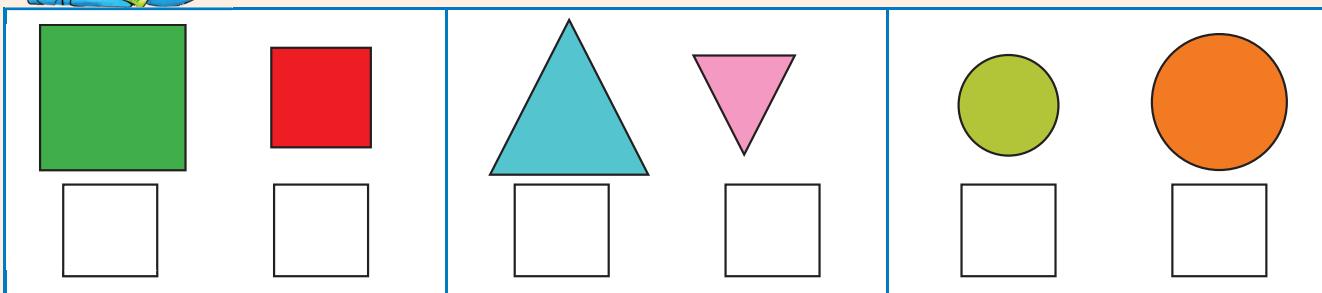
Bobunjwa bebusobubili (2-D)



Faka lumphawu ✓ kubunjwa lomncane kakhulu ebhulokini ngalinye.

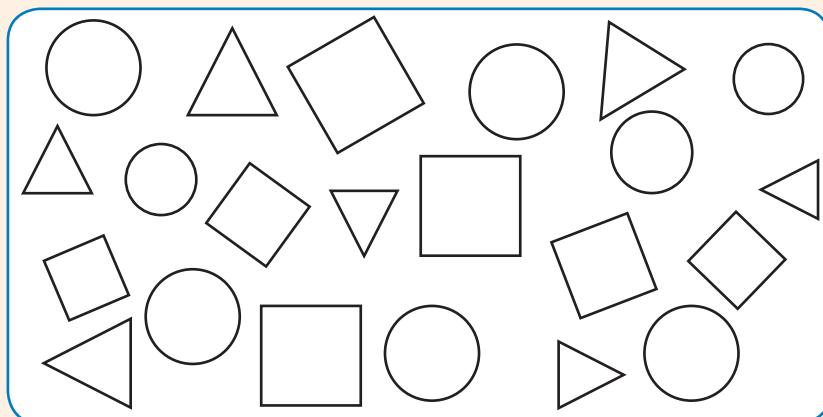


Faka lumphawu ✓ kubunjwa lomkhulukati ebhulokini ngalinye.

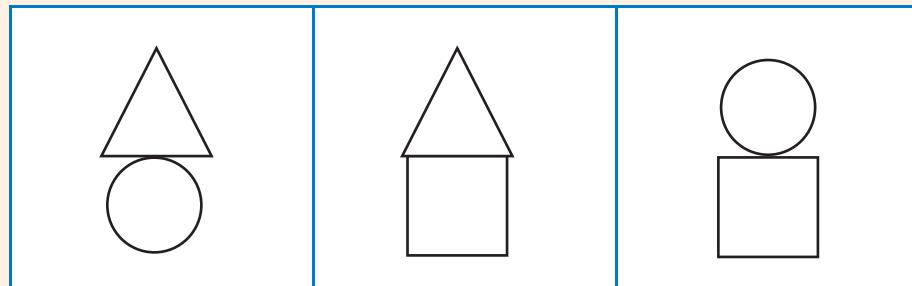


Faka umbala:

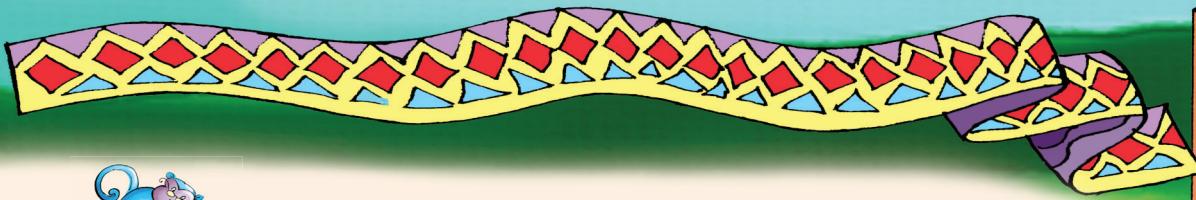
- lolingangane tonkhe tikwele
- lobovu bonkhe bocalantsatfu
- loluhlata tonkhe tindilinga



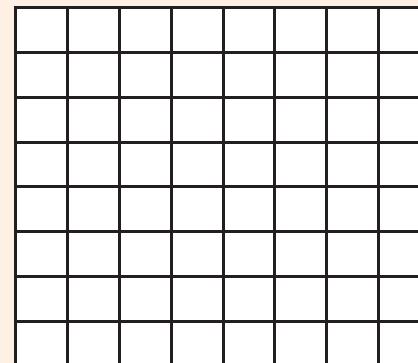
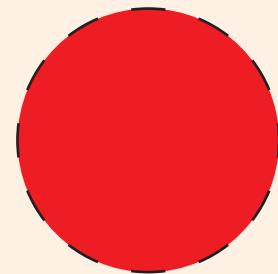
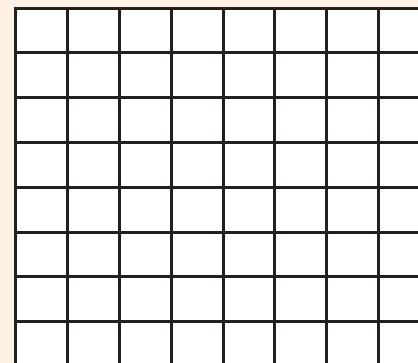
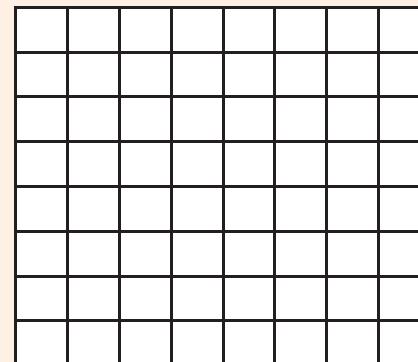
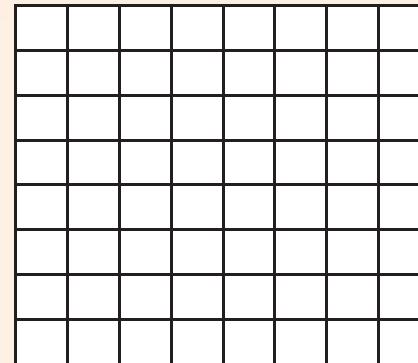
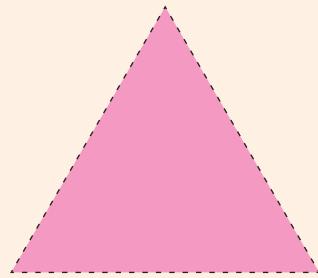
Yenta sitfombe usebentisa bobunjwa. Sikucalele sitfombe ngasinye ngabobunjwa laba-2.



90 0 1 2 3 4 5 6 7 8 9 10



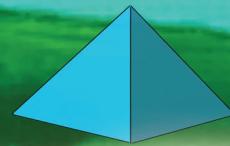
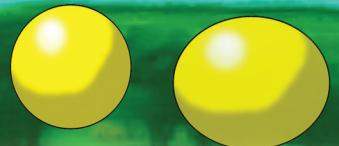
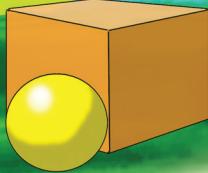
Dvweba labobunjwa kugridi.
Sebentisa letikwele letincane kukusita.



Teacher:
Sign:
Date:



110

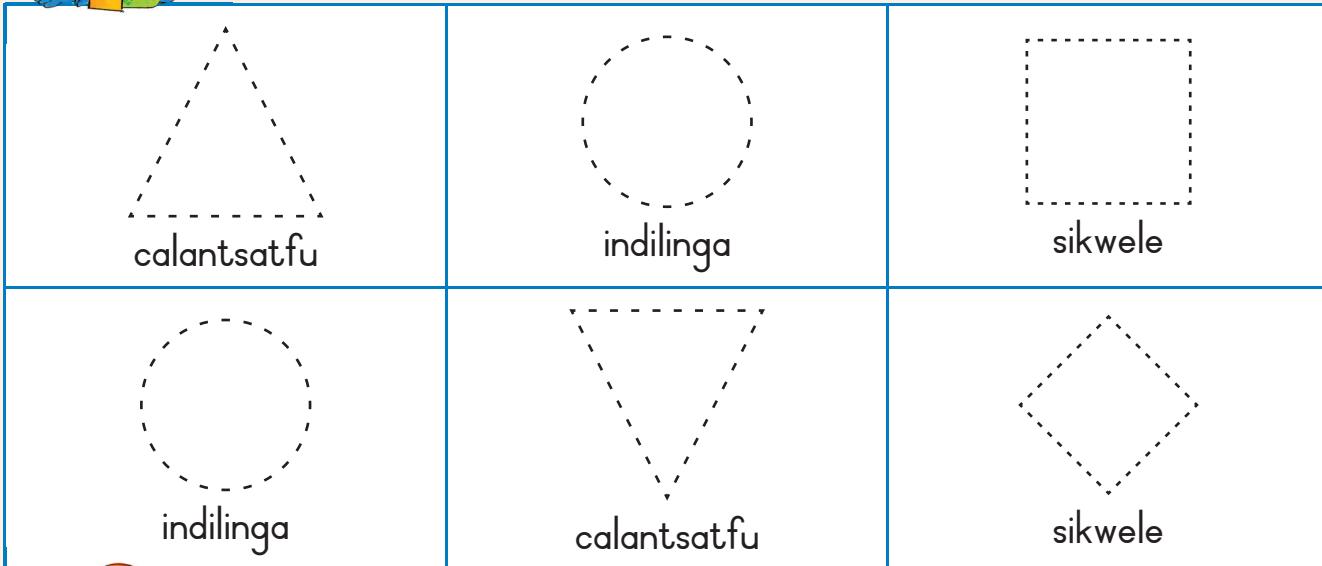


Ithemu 4

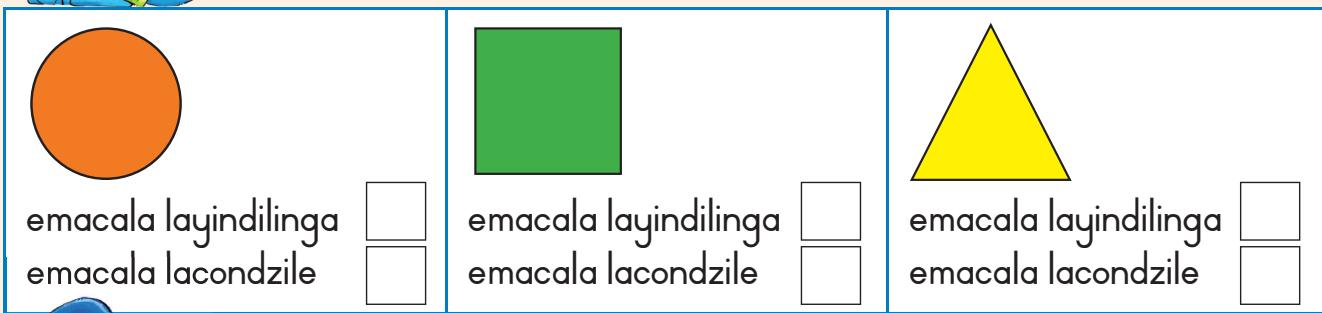


Tsatsisa labunjwa labalandzelako.

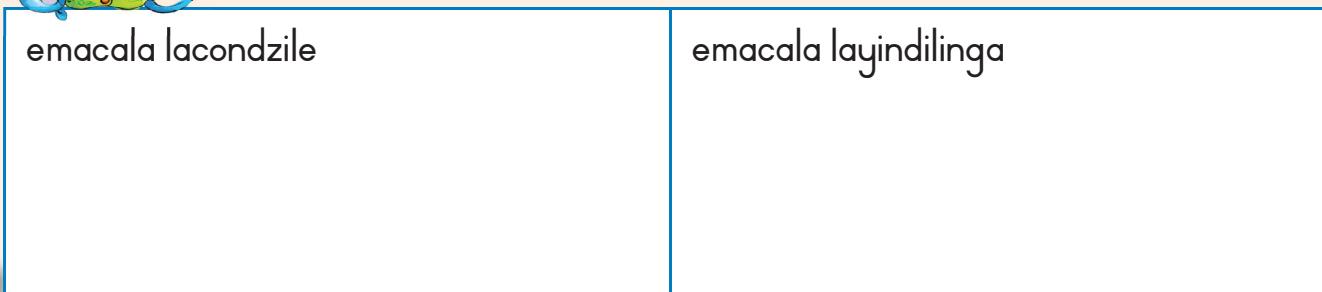
Bobunjwa be bebusobubili (2-D) – emacala lacondzile nalayindilinga



Faka lumphawu ✓ kusho kutsi ngabe bunjwa unemacala lacondzile noma layindilinga.



Dwweba bunjwa lonaloku:



q2

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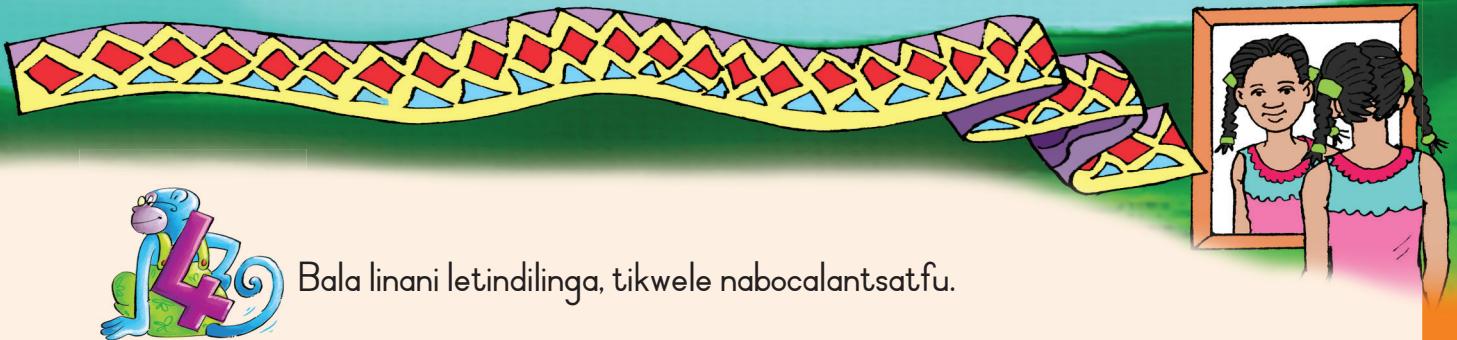
6

7

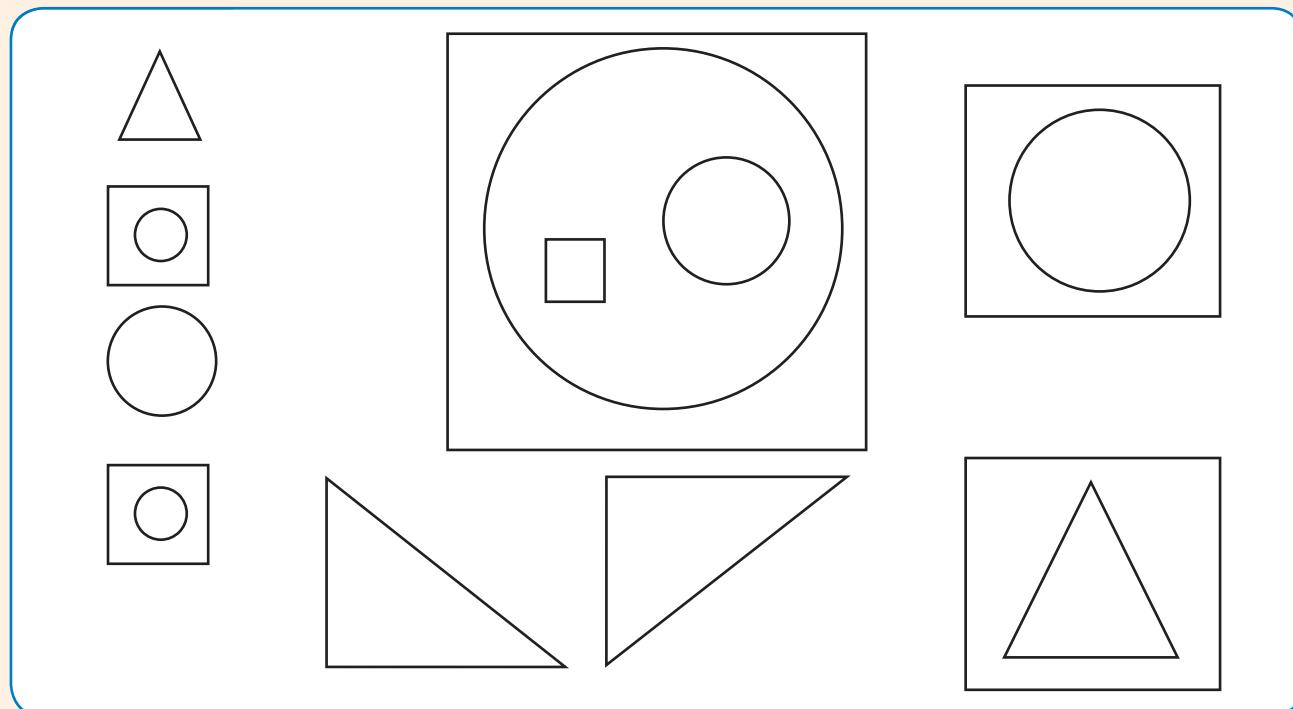
8

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Bala linani letindilinga, tikwele nabocalantsatfu.



Calantsatfu



Indilinga



Sikwele



Tfola sitfombe lesibuya kumagazini sentfo lenaloku:

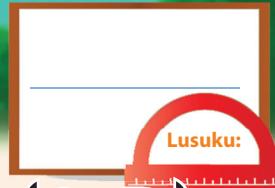
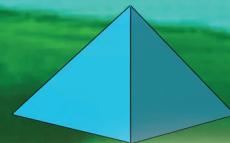
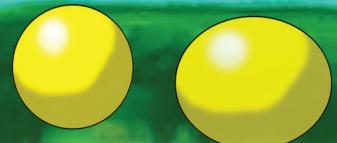
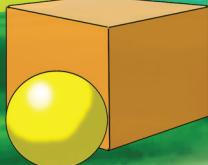
emacala layindilinga

emacala lacondzile



Teacher:
Sign:
Date:



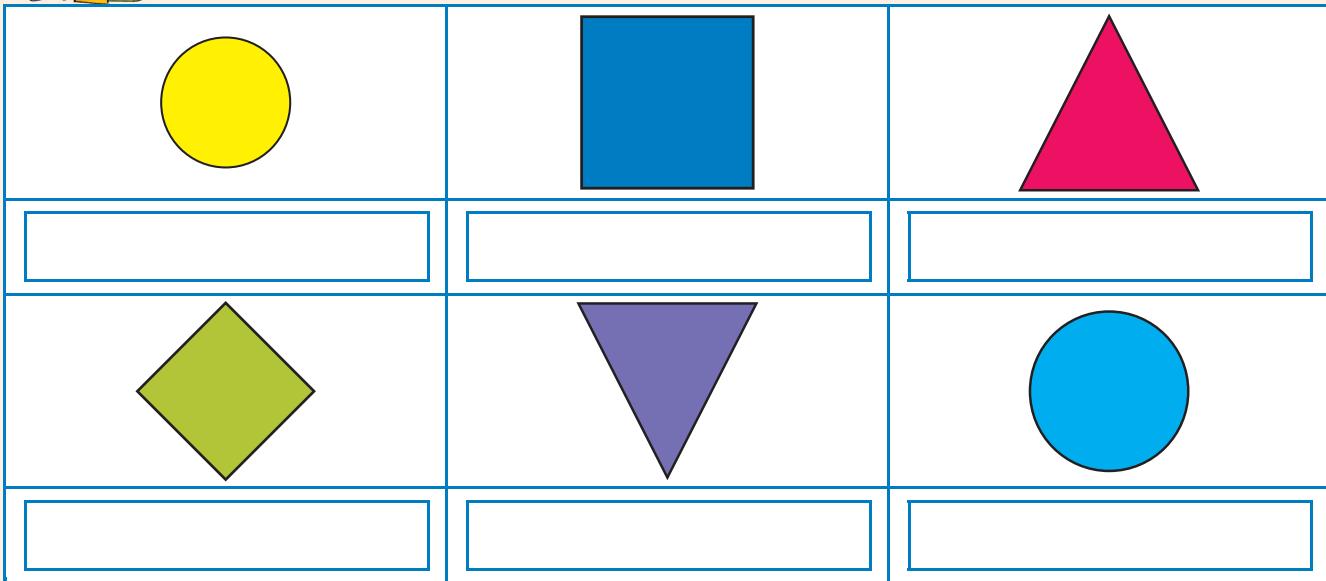


Labanye futsi bobunjwa bebusobubili (2-D)



Shano emagama alabobunjwa labalandzelako:

Ithemu 4



Dweba sitfombe sakho usebentisa tindilinga, bocalantsatfu netikwele kuphela.



94

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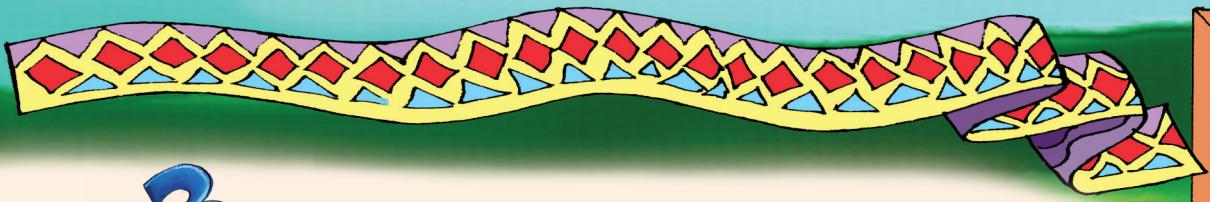
6

7

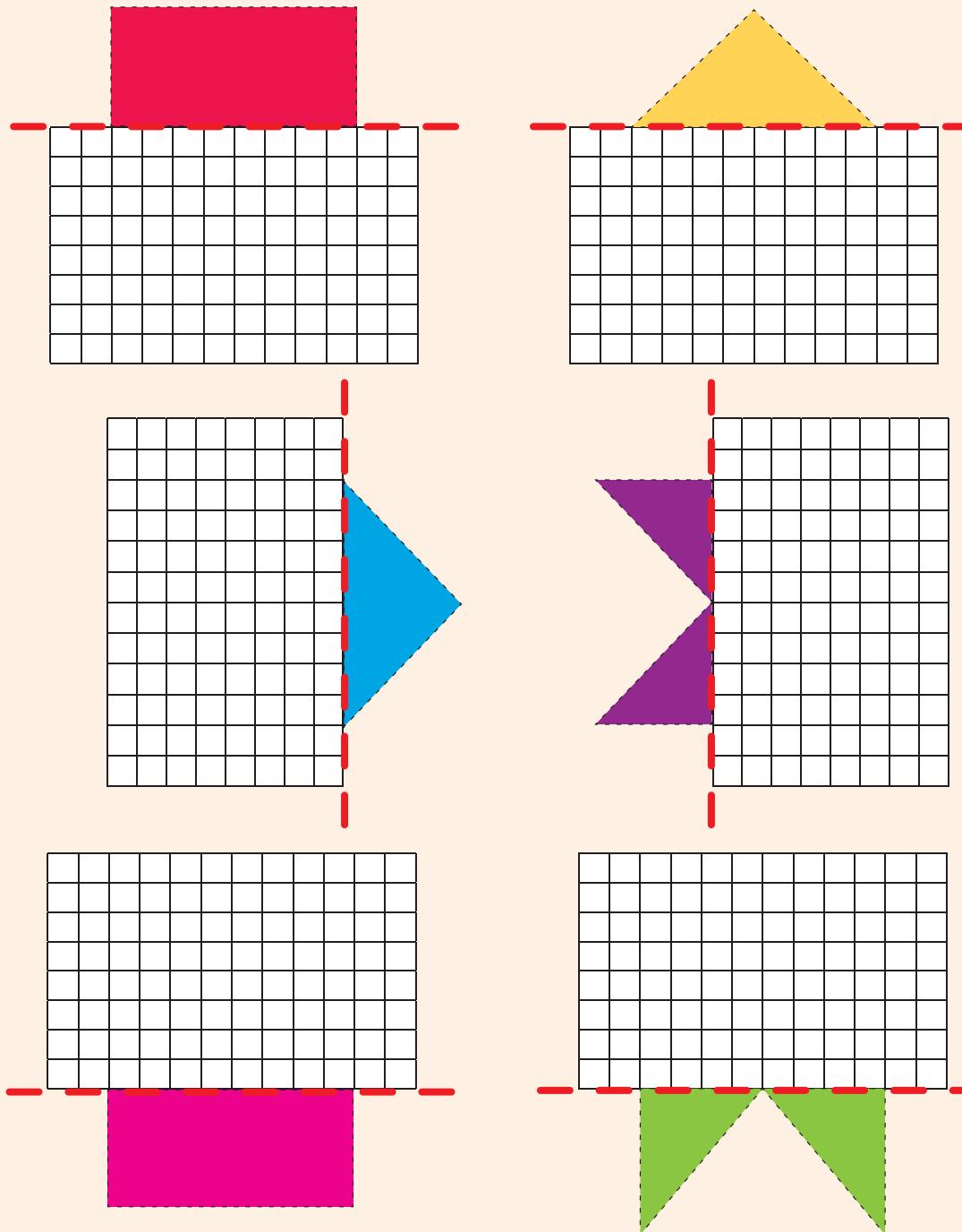
8

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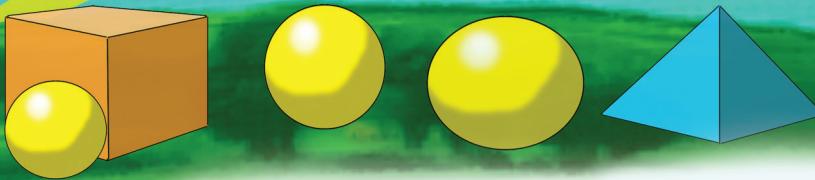
Dvweba lona lomunye hhafu wabunjwa ngamunye.
Sebentisa letikwele letincane kukusita.



Bonkhe bobunjwa banemacala lacondzile na layindilinga .



112



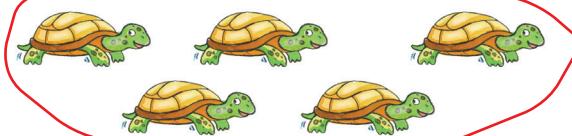
Ithemu 4



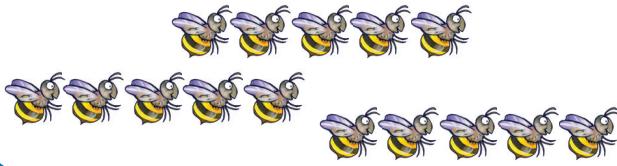
Ticumbi tetihlanu kufika ku 20

Dvweba tindilinga kwakha ticumbi tetihlanu.
Tingaki ticumbi tetihlanu lonato?

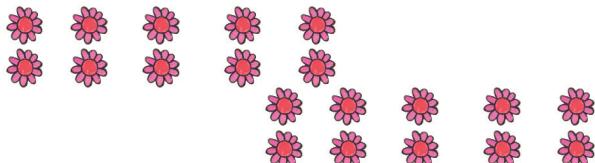
sicumbi sesi - 5



sicumbi sesi - 5



sicumbi sesi - 5



sicumbi sesi - 5



Bala linani leminwe. Bhala phasi imphendvulo yakho.



$$5 + 5 + 5 =$$



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



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



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



96

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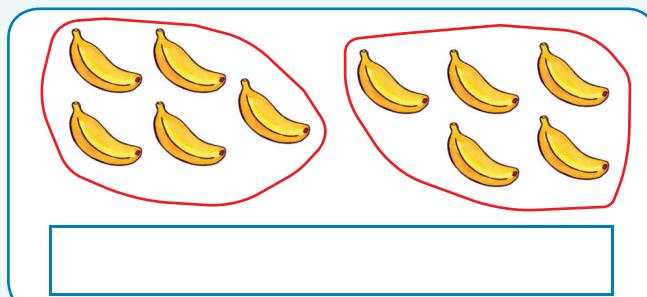
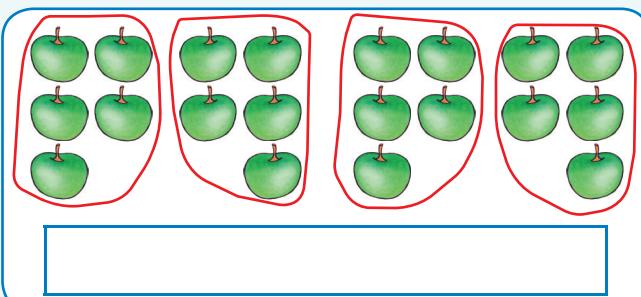
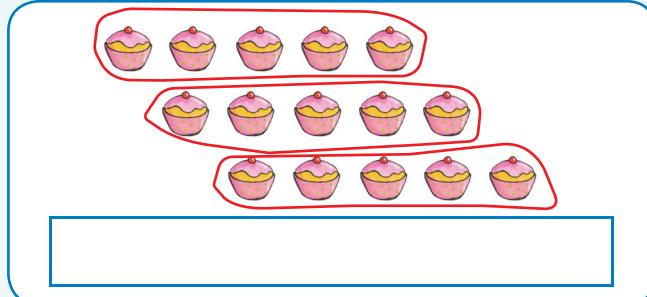
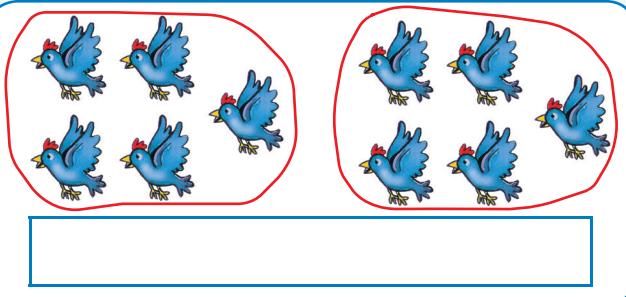
8

9

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Bhala umusho wangakunye ngakunye kwaloku lokulandzelako:



Phendvula lemibuto.



Gcwalisa letinombolo letishiyiwe.

Bangaki bo 5c
bebuuhhehlu lobabonako?

Bhala loku njengemusho
nombolo:

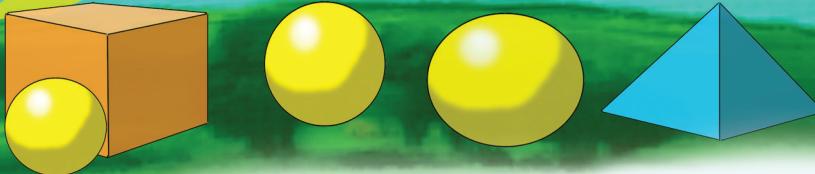


I	2	3	4		6	7	8	9	
II	I2	I3	I4		I6	I7	I8	I9	

I I2 I3 I4 I5 I6 I7 I8 I9 20



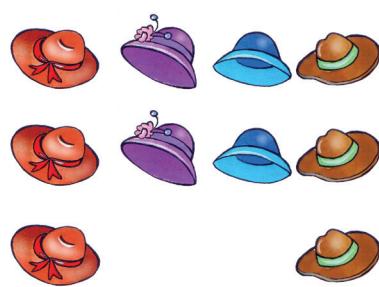
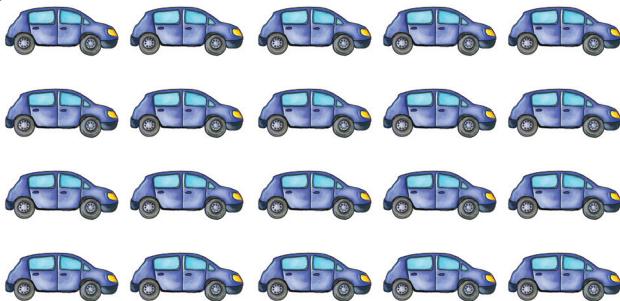
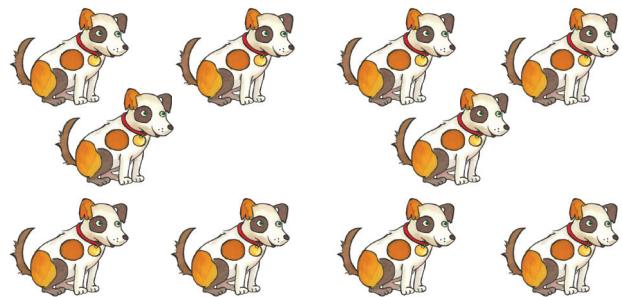
113



Tihlanu – kuhlanganisa lokuphindziwe kufika ku 20



Yenta ticumbi tetihlanu bese ubhala lomusho nombolo.



Dwewba ticumbi tabobunjwa kukhombisa lemisho nombolo.

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

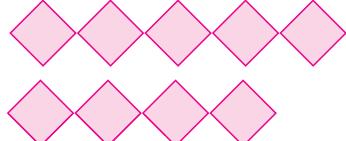
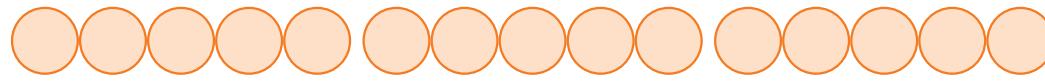
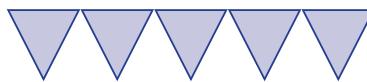
$$5 \quad + \quad 5 \quad + \quad 5 \quad + \quad 5 = \quad \square$$





Bhala umusho wangakunye ngakunye kwaloku lokulandzelako:

$$5 + 5 =$$



Tingaki tikhatsi lobala ngato tinombolo letisihlanu? _____

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



Kunetandla leti - 3 efasitelweni. Mingaki iminwe lesefasitelweni?

Dvweba sitfombe bese ubhala umusho nombolo.



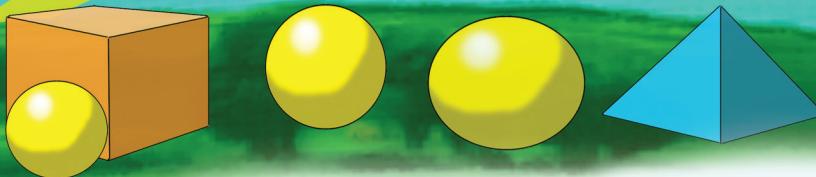
Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

14

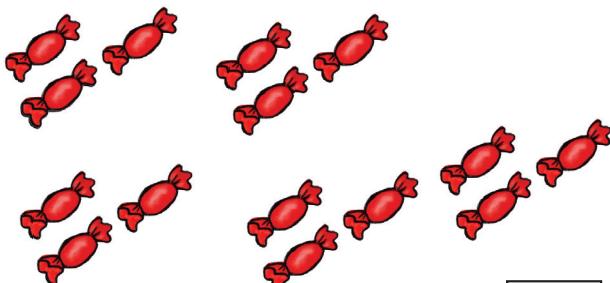


Ithemu 4

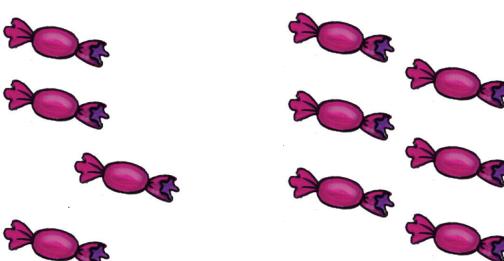
Kwabelana kufika ku 20



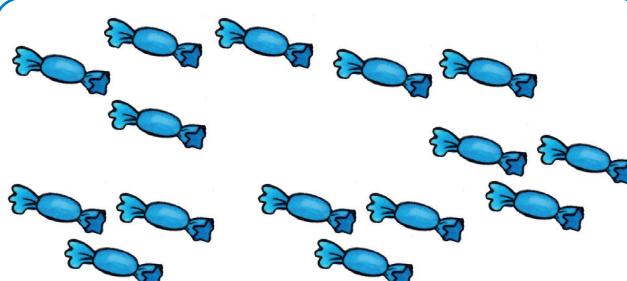
Yabani emaswidi emkhatsini webangani labasihlanu.
Mangaki emaswidi latawutfolwa ngumuntfu ngamunye?



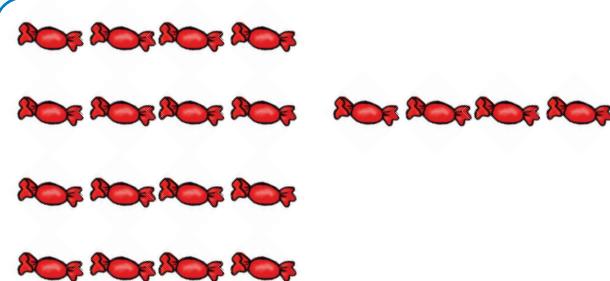
Umngani ngamunye utawutfola
emaswidi la



Umngani ngamunye utawutfola
emaswidi la



Umngani ngamunye utawutfola
emaswidi la



Umngani ngamunye utawutfola
emaswidi la

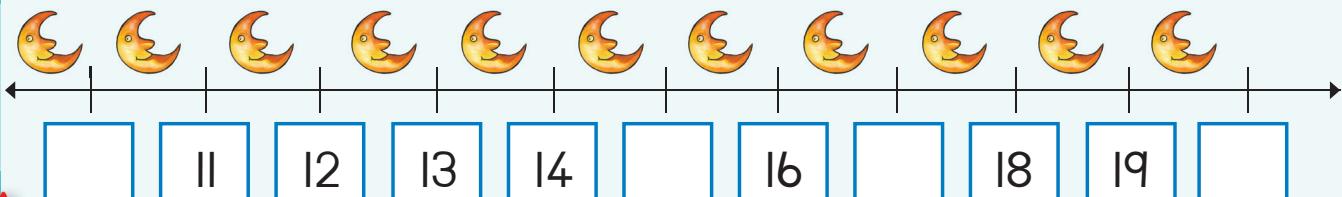


Faka umbala kutimphindza tesihlanu.

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	20



Gcwalisa letinombolo letishiyiwe.



100

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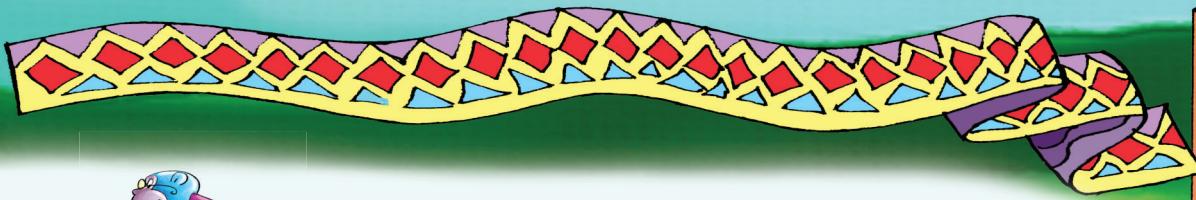
6

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Yenta umdvwebo kukhombisa loku lokulandzelako.
Tikhona yini tintfo tekubala letisele?



Yaba 10 letintfo tekubala emkhatsini
webantfwana labasihlanu.

Yaba 6 setintfo tekubala emkhatsini
webantfwana labasihlanu.

Kuna- wetintfo tekubala letisele.

Kuna- wetintfo tekubala letisele.

Yaba 11 letintfo tekubala emkhatsini
webantfwana labasihlanu.

Yaba 16 letintfo tekubala emkhatsini
webantfwana labasihlanu.

Kuna- wetintfo tekubala letisele.

Kuna- wetintfo tekubala letisele.



Bhala umusho wangakunye ngakunye kwaloku lokulandzelako:



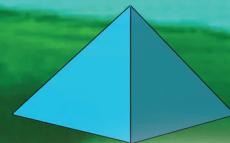
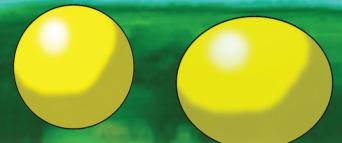
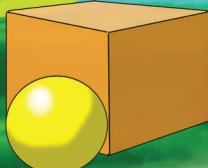
$$5 + 5 =$$



Teacher: _____
Sign: _____
Date: _____



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Ithemu 4

Emaphethini nombolo – tihlanu kuya ku 100



Cedzela lephethini ngekufaka umbala kutimphindza tesihlanu.

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



Dvweba imihibe kukhombisa loku lokulandzelako:

86, 88, 90



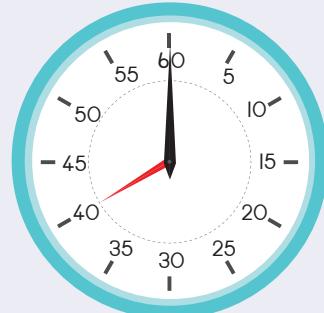
70, 75, 80



55, 60, 65, 70



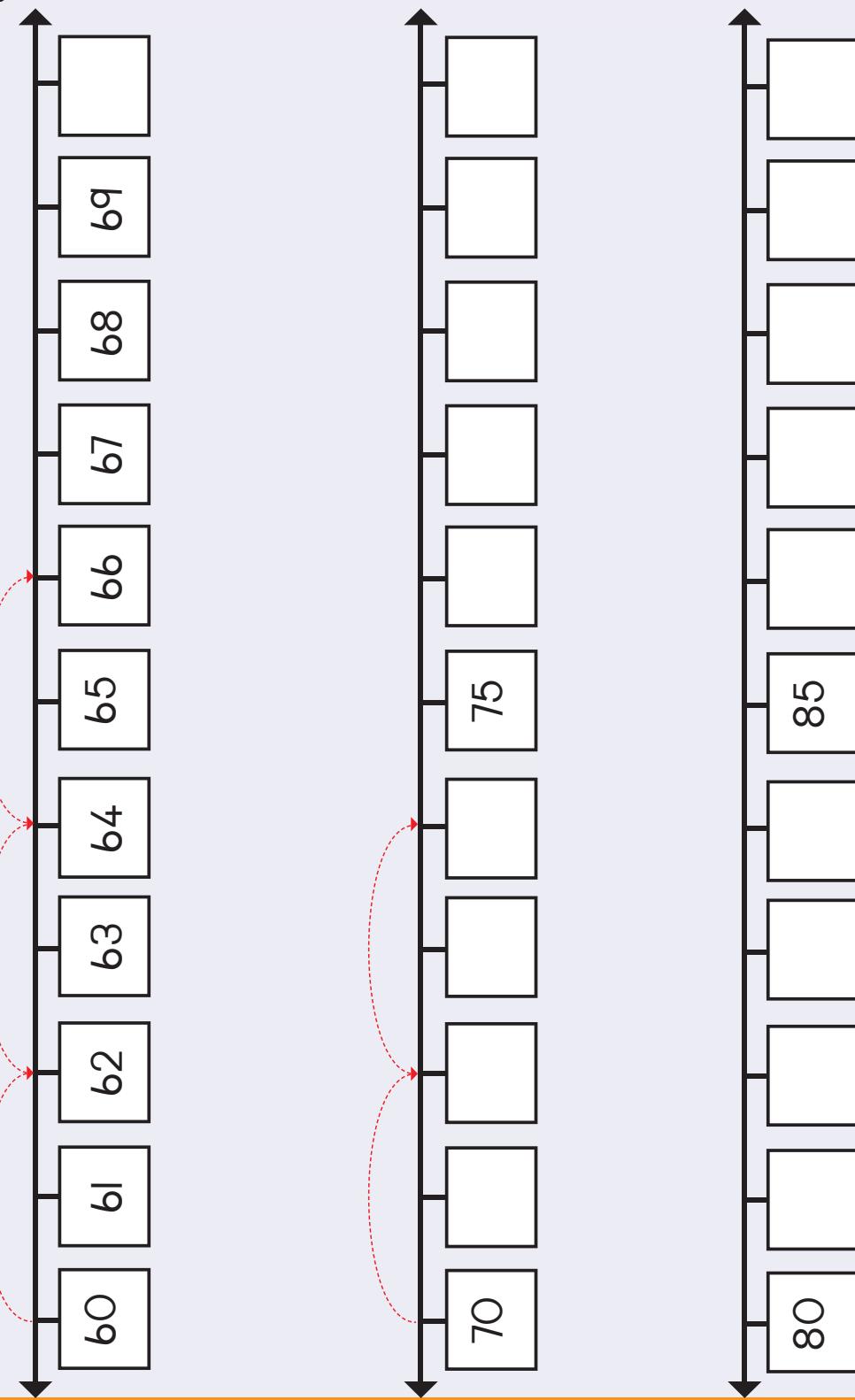
Sebentisa leliwashi kukhombisa
kubala imizuzu ngetihlanu.



0 1 2 3 4 5 6 7 8 9 10



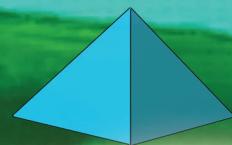
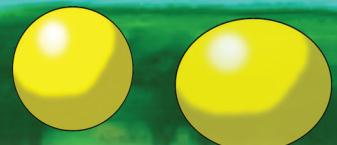
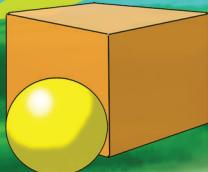
Beka tinombolo letisuka kuLokusikiwe 2 etindzaweni
lapho tinombolo tishiywe khona kulemigca nombolo.
Buye ucedzele lemihibe.



11 12 13 14 15 16 17 18 19 20



116



Sikhundla nelicalala lekubuka

Ithemu 4



Condzanisa lingembili
nelingemuva lesilwane
ngasinye.

Lingembili



Lingemuva



Biyela butjoki
lobuhambisana -ngco
nebutjoki lobulapho
kufakwe umbala
khona.



104

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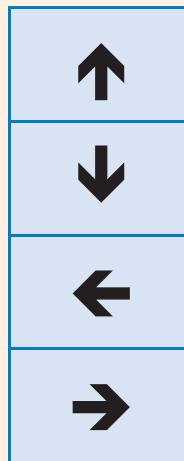
6

7

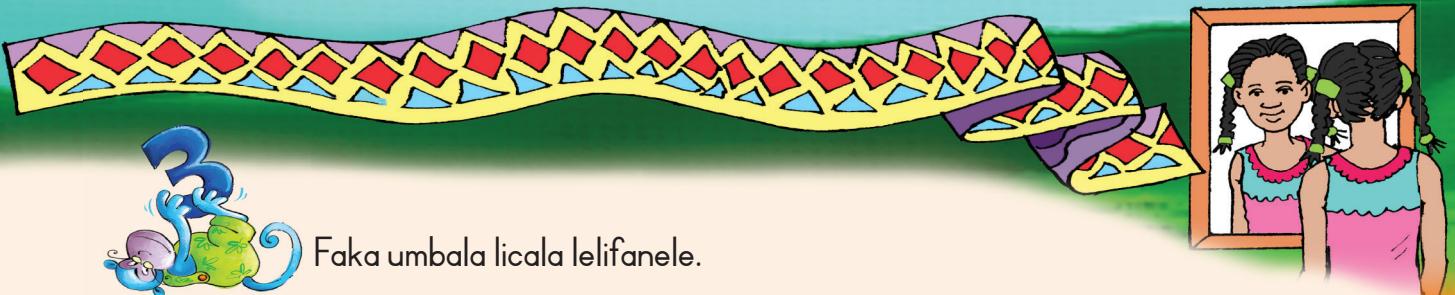
8

9

10

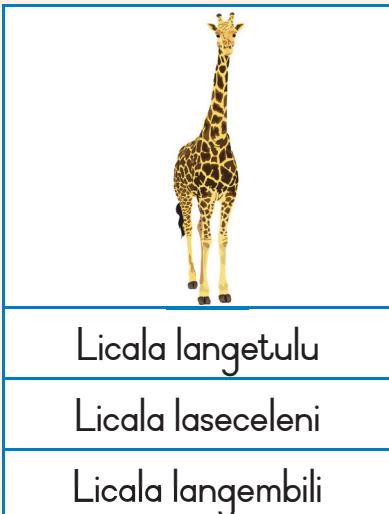


→	←	↑	↓
↑	↓	→	←
→	←	↑	↓
↑	←	↓	→



3

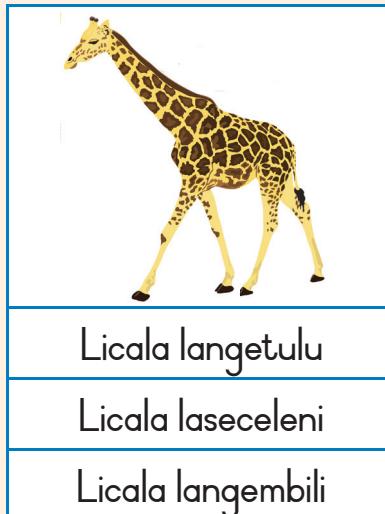
Faka umbala licala lelifanele.



Licala langetulu

Licala laseceleni

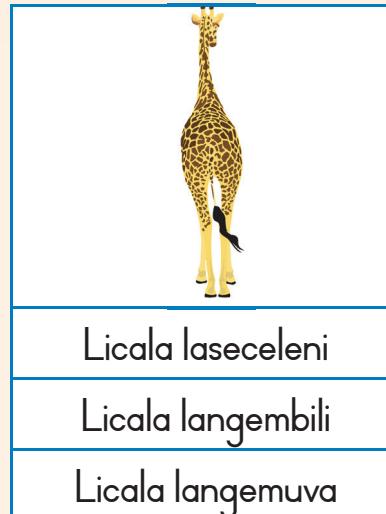
Licala langembili



Licala langetulu

Licala laseceleni

Licala langembili



Licala laseceleni

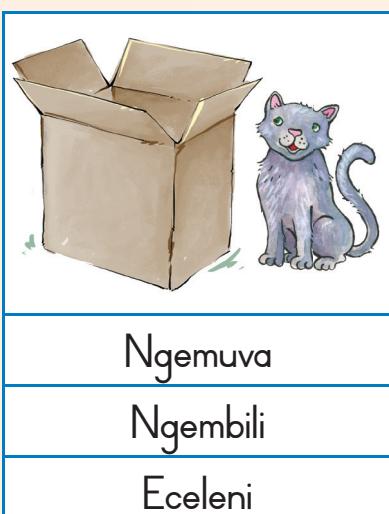
Licala langembili

Licala langemuva



Likuphi likati?

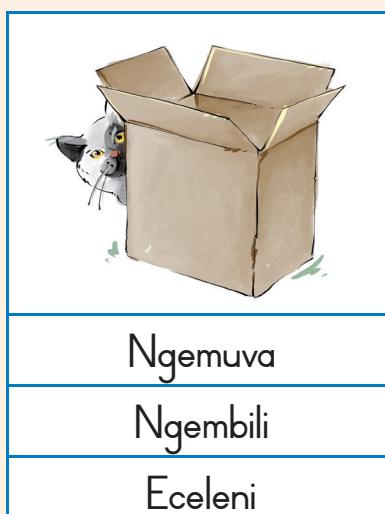
Faka umbala emphendvulweni lengiyo.



Ngemuva

Ngembili

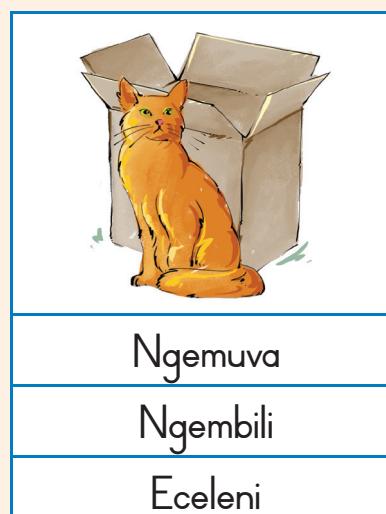
Eceleni



Ngemuva

Ngembili

Eceleni



Ngemuva

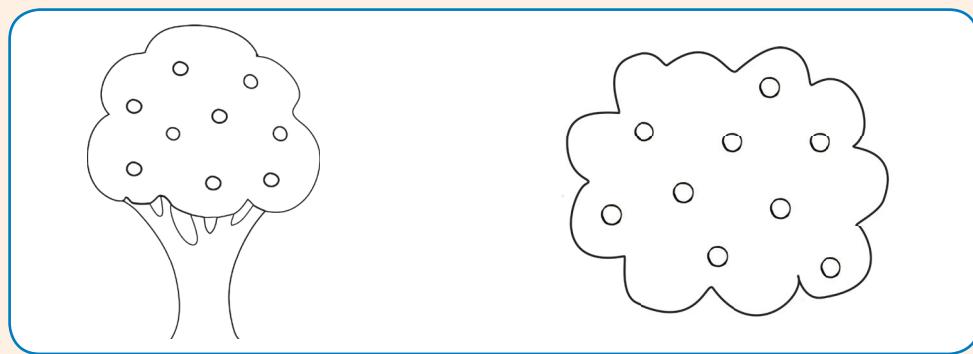
Ngembili

Eceleni

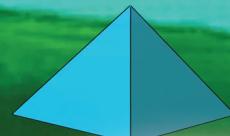
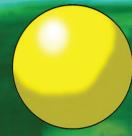
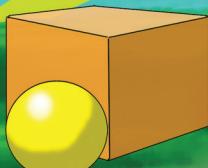


Bukisia letifombe
letintsatfu.

Faka umbala kucala
langetulu.



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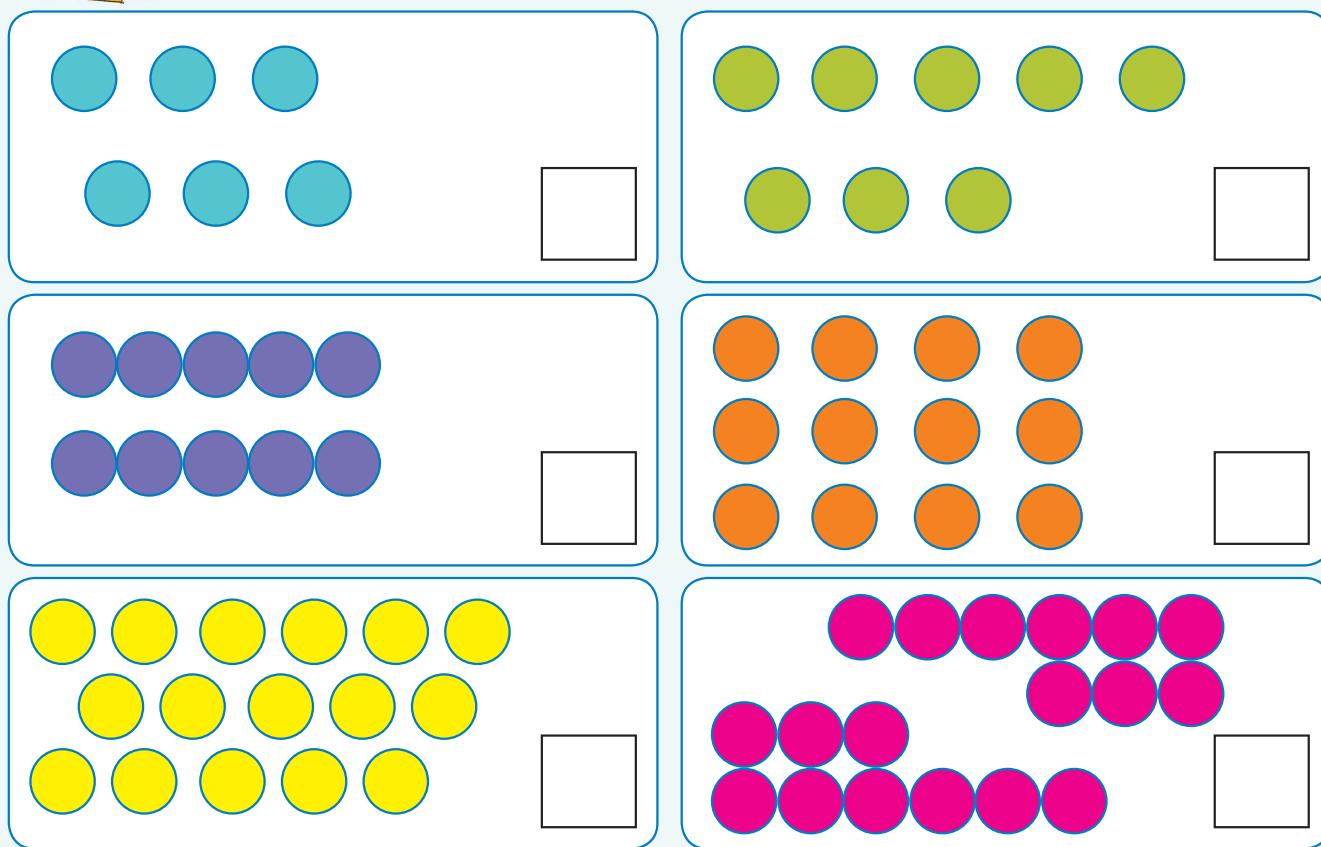


Ithemu 4

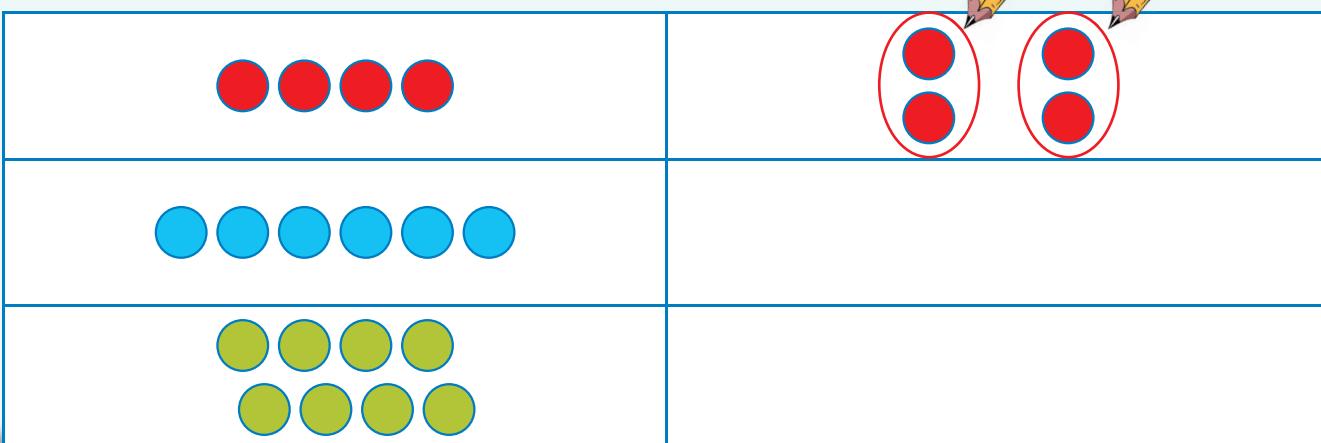
Ticumbi takubili kufika ku 20



Yenta ticumbi takubili. Bhala phasi kutsi tingaki ticumbi kuloku.



Yenta ticumbi takubili. Dvweba ticumbi.



106

0

1

2

3

4

5

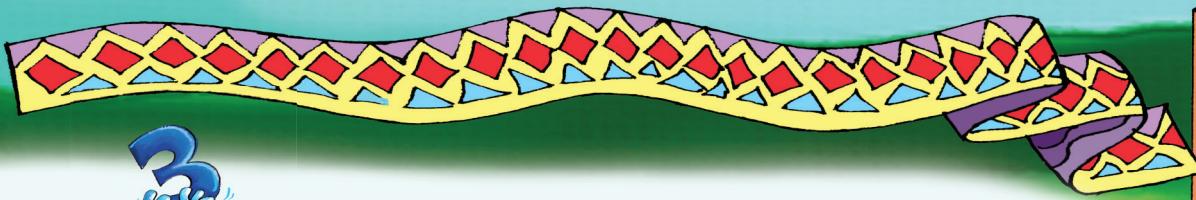
6

7

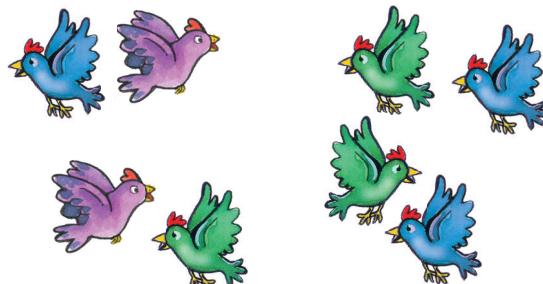
8

9

10



Phendvula lembuto.



Tingaki tinyoni letikhona?

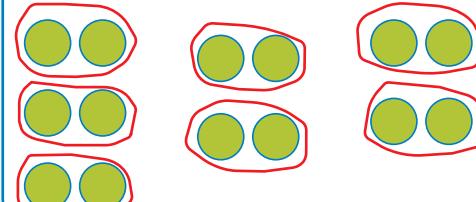
Tingaki ticumbi takubili longatenta?

Bhala umusho nombolo.



Dvweba
tindilinga
kwakha loku
lokulandzelako.

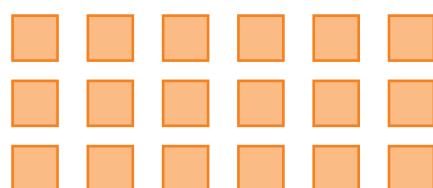
7 ticumbi tabo 2



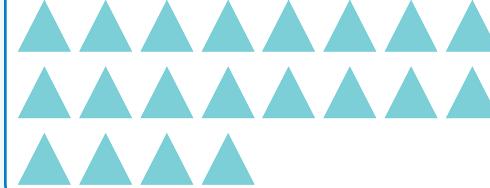
8 ticumbi tabo 2



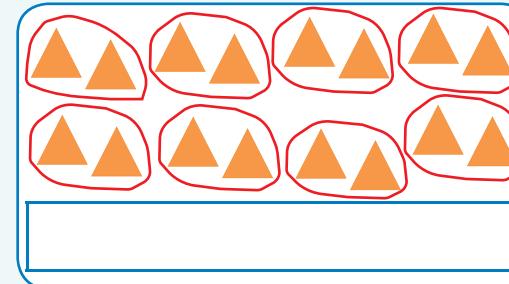
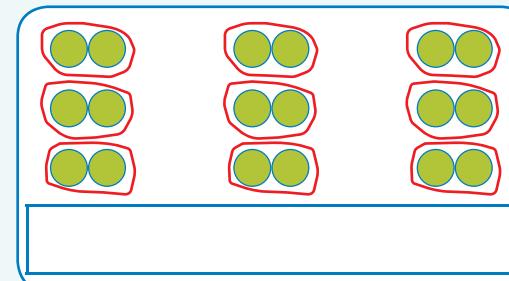
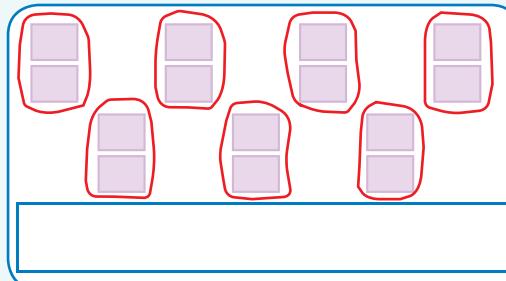
9 ticumbi tabo 2



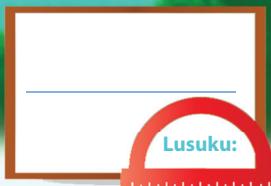
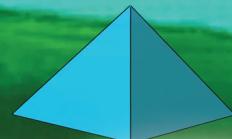
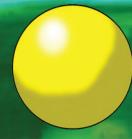
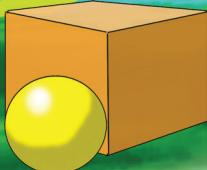
10 ticumbi tabo 2



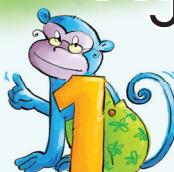
Bhala umusho
nombolo waloku
lokulandzelako.



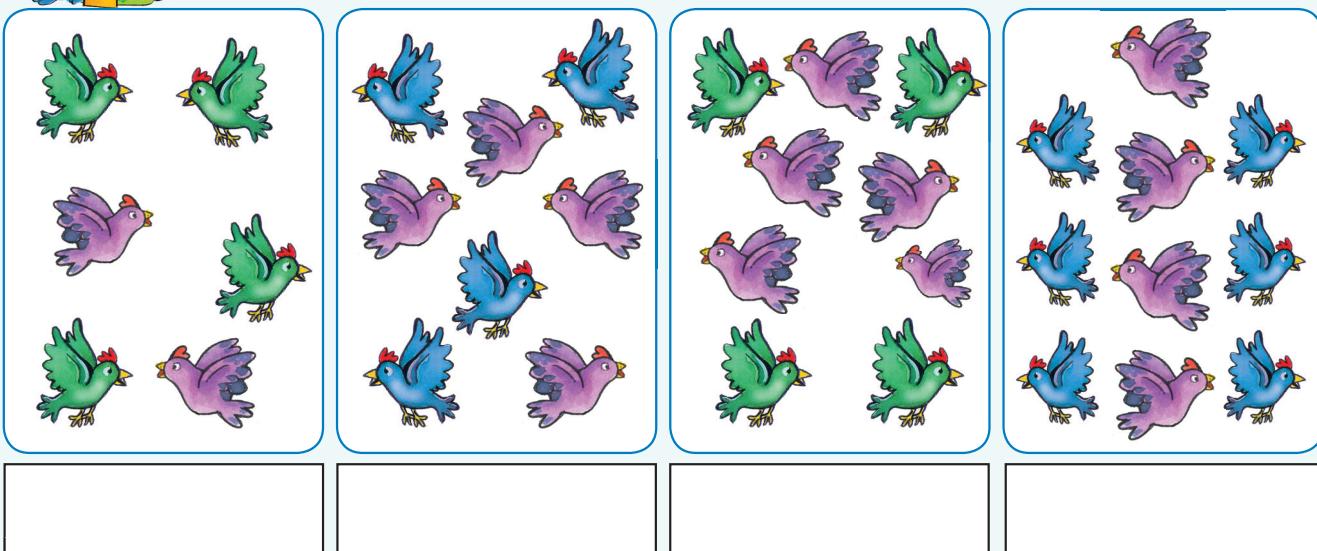
118



Ngakubili – kuhlanganisa lokuphindzelewe kufika ku 20



Mingaki imilente lekhona? Bhala umusho nombolo wangakunye.



Dwewba bobunjwa baloku lokulandzelako:

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

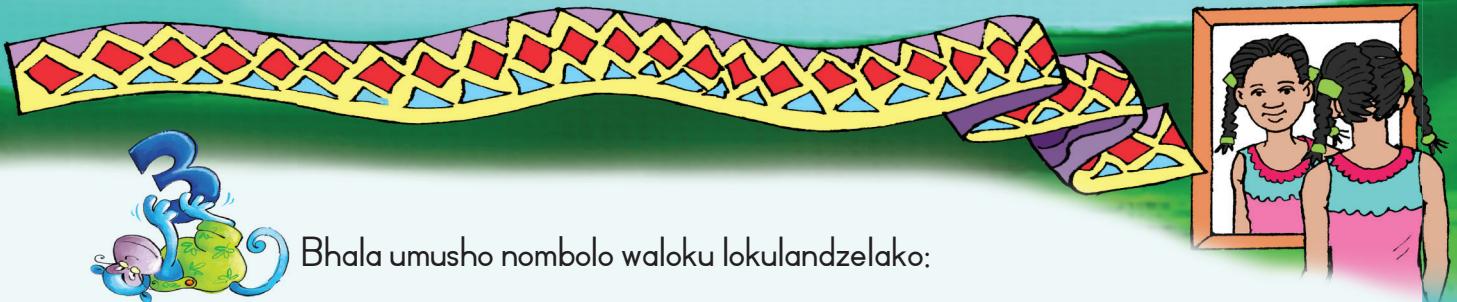


$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$

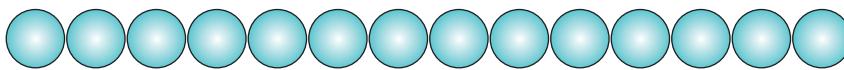
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$

$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$

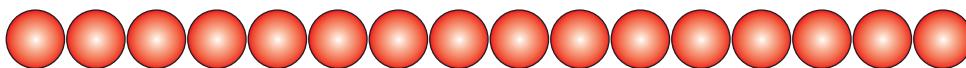


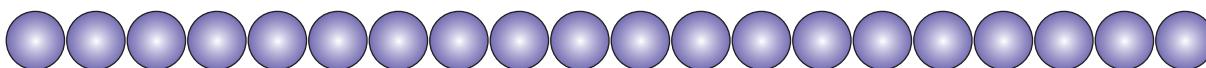


Bhala umusho nombolo waloku lokulandzelako:



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









Faka umbala
timphindza takubili.

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	20



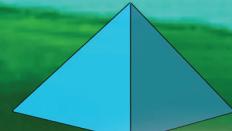
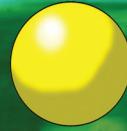
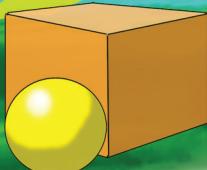
Nginesi - 6 semaphakethe lanemaswidi lama - 2 lilinye.

Mangaki emaswidi lenginawo ? Dvweba sitfombe bese ubhala umusho nombolo.

Ngina wemaswidi.



||q



Ithemu 4

Emaphethini nombolo – ngakubili kuya ku 100



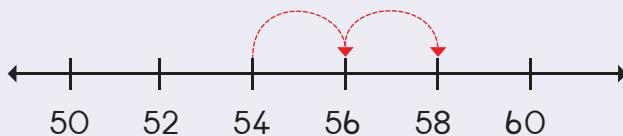
Cedzela lephethini
ngekufaka umbala
letinombolo.

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

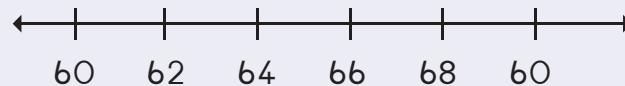


Dwewba imihibe kukhombisa loku lokulandzelako:

54, 56, 58



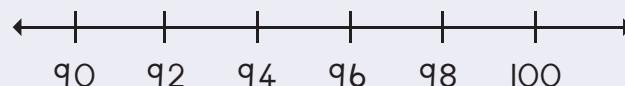
64, 66, 68



74, 76, 78



94, 96, 98

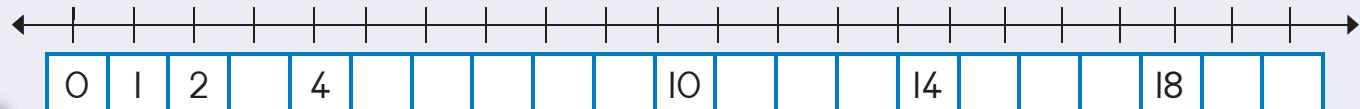


Gcwalisa letinombolo letishiyiwe. Faka umbala kulephethini: 2, 4...

I			3				7			10
II							17			20



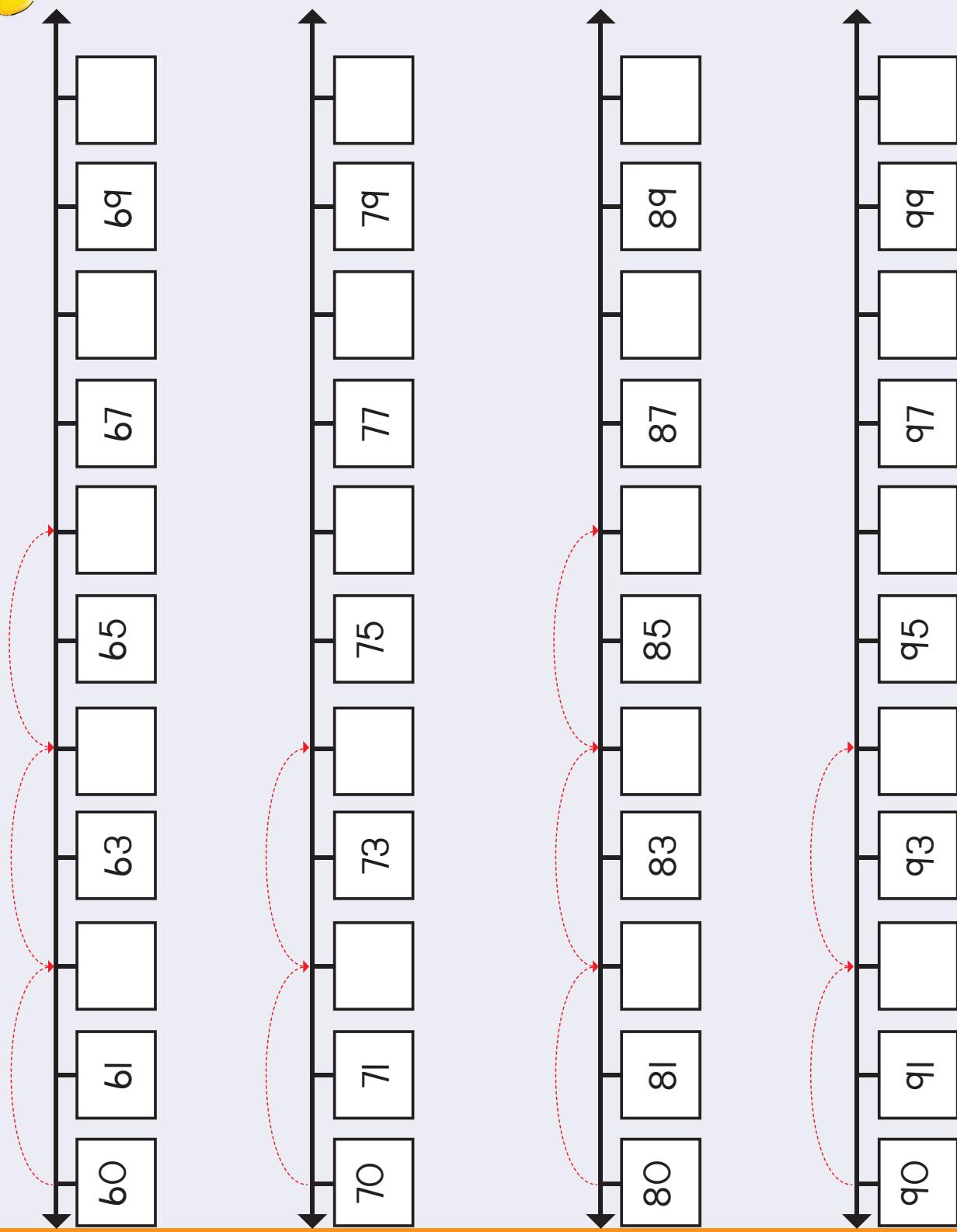
Cedzela lomugca-nombolo.



0 1 2 3 4 5 6 7 8 9 10



Sika kahle letinombolo letisuka kuLokusikiwe 2 bese utibeka
emigceni - nombolo lapho letinombolo tishiywe khona. Buye
ucedzele lemihibe.



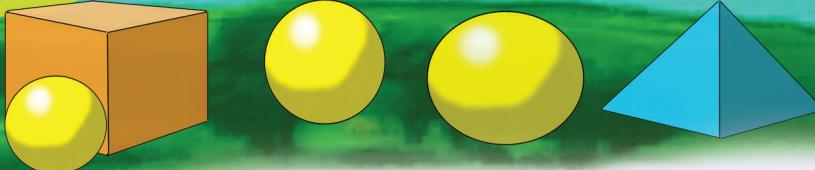
11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



120

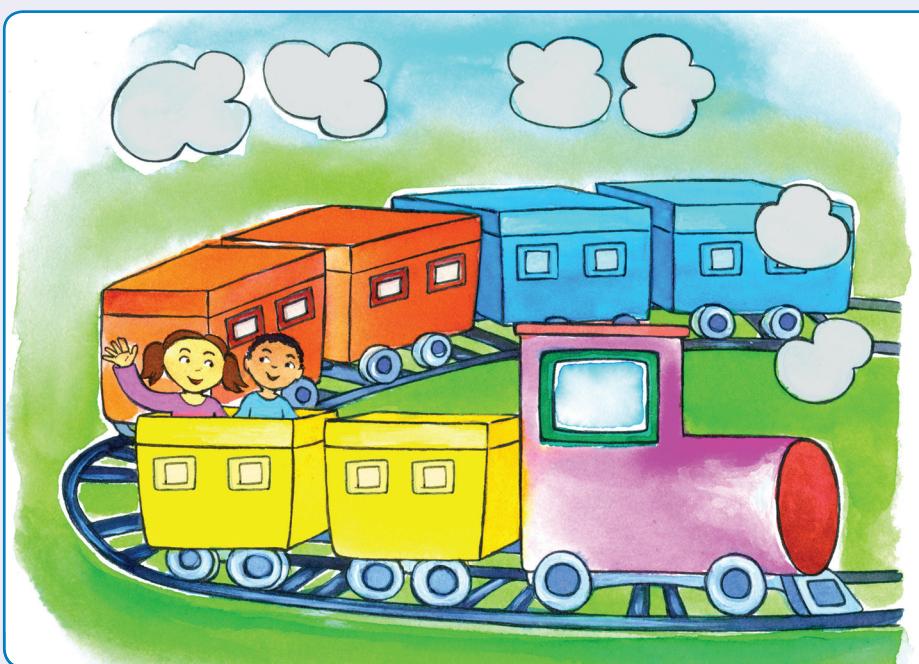


Ithemu 4

Emaphethini nombolo – ngakubili kuya ku 100

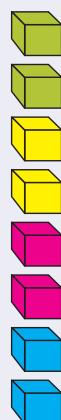
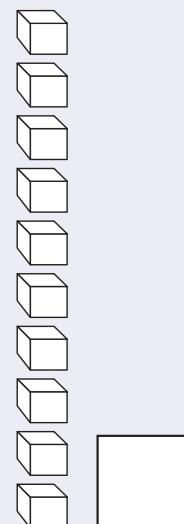
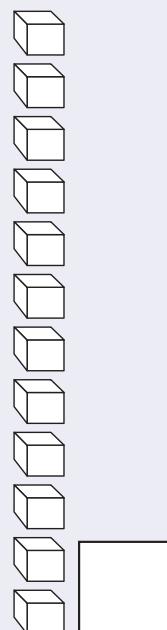


Ungawabona nje emaphethini angakubili?

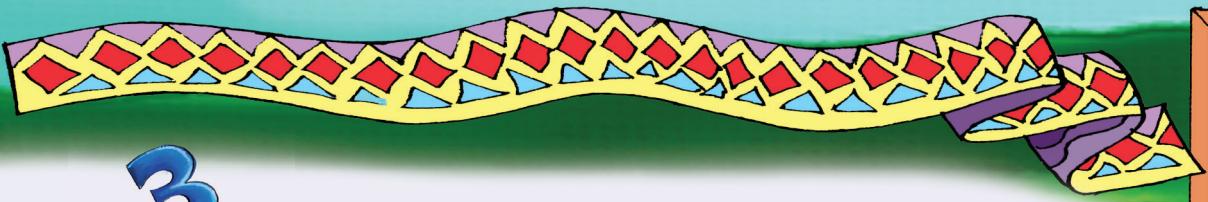


Faka umbala emabhuloki kukhombisa ticumbi takubili.

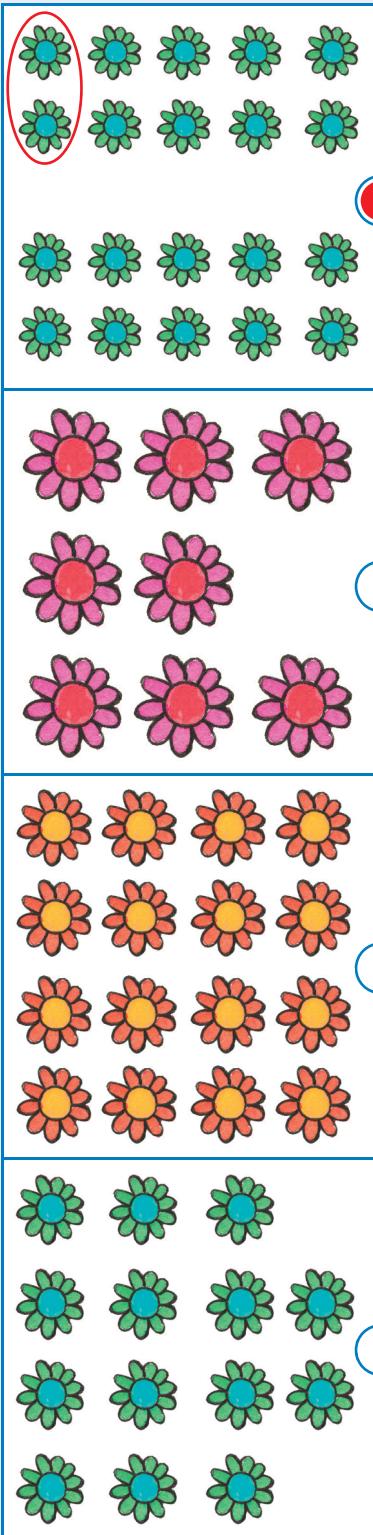
Bala kutsi tingaki ticumbi kuloku.

 4

0 1 2 3 4 5 6 7 8 9 10



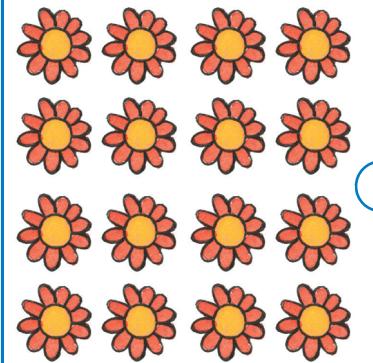
Condzanisa ticumbi takubili nemusho nombolo
ngekudvweba umugca.



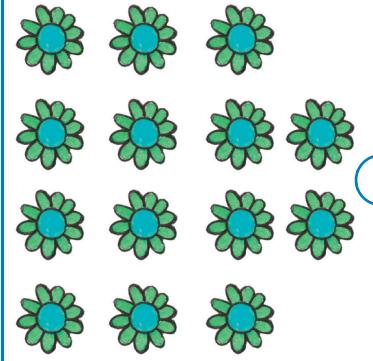
$$2 + 2 + 2 + 2 = 8$$



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



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



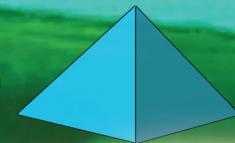
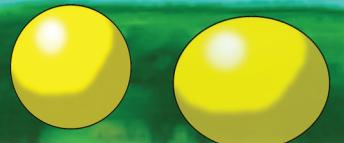
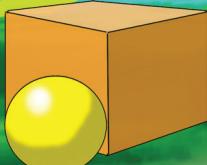
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$$



Teacher:
Sign:
Date:



I21

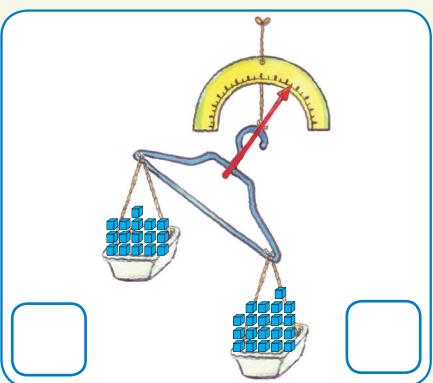
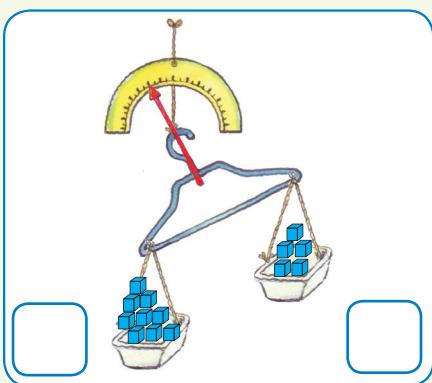
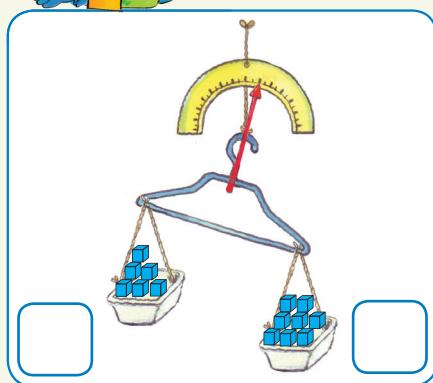


Ithemu 4

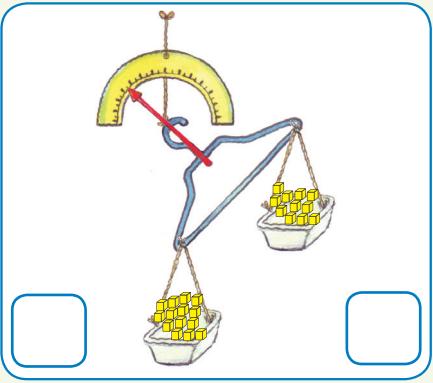
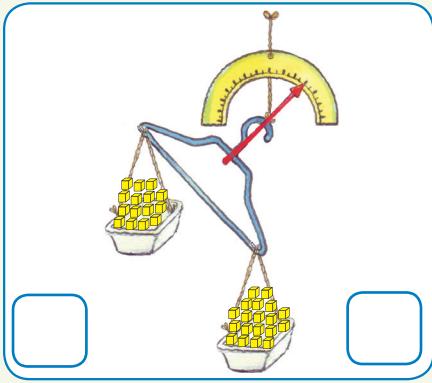
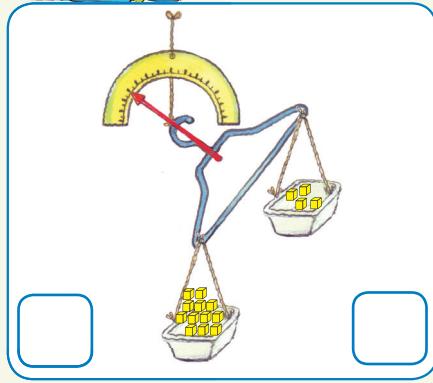
Sisindvo (kwesindza)



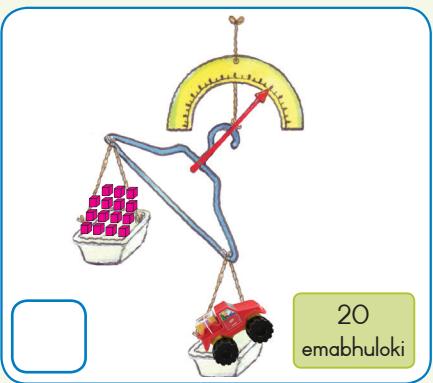
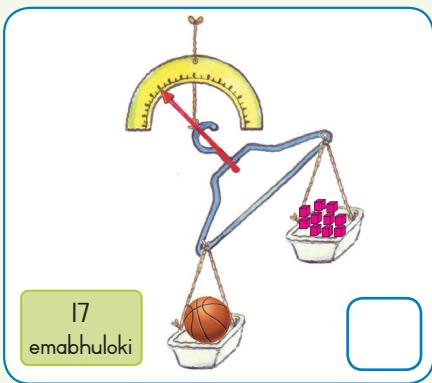
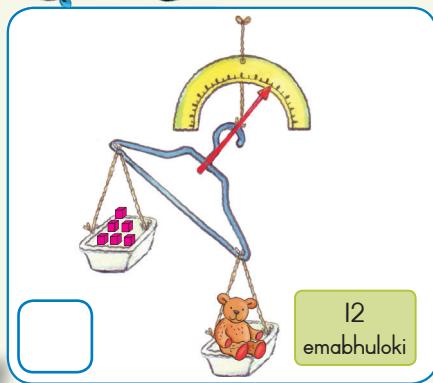
Bhala kutsi mangaki emabhaluki lakhona kukwekuphatsa ngakunye.
Biyela kwekuphatsa lokumatinyana.



Bhala kutsi mangaki emabhaluki lakhona kukwekuphatsa ngakunye.
Biyela kwekuphatsa lokululana.



Bala kutsi mangaki emabhaluki kuloku. Bese ubala kahle kutsi mangaki lamanye
emabhaluki ladzingekile kute kusimame lithoyizi. Sikutjela kutsi lithoyizi
linesisindvo samangaki emabhaluki.



14

0

1

2

3

4

5

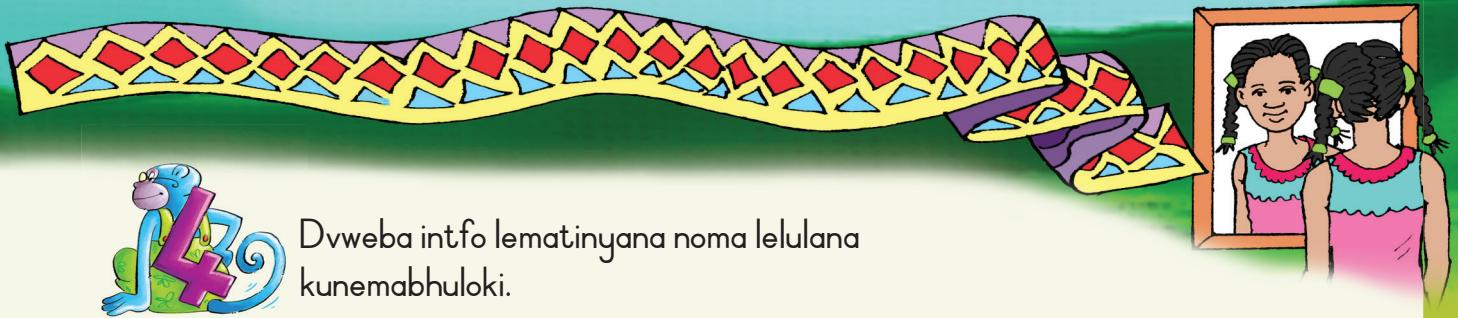
6

7

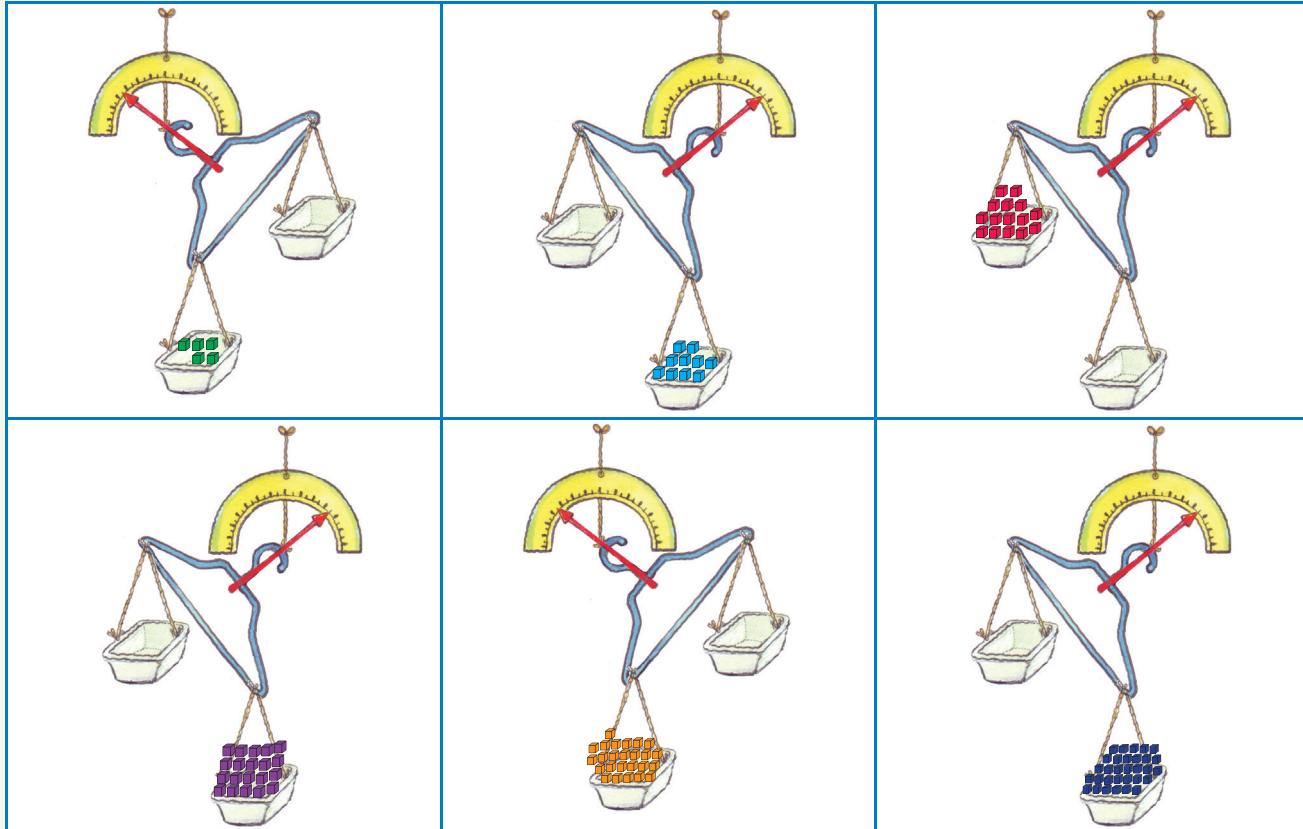
8

9

10



Dvweba intfo lematinyana noma lelulana
kunemabhuloki.

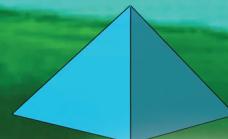
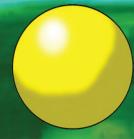
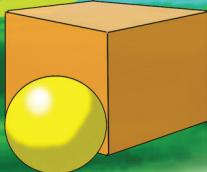


Sebentisa si -5 setintfo edisikini lakho. Cale wente silinganiso kutsi kunasisindvo sini
ubese ukukala kahle esikalini noma ukusimamise kuhlolisia kutsi ngabe imicombelelo
silinganiso yakho beyikahle yini.

Dvweba lentfo	Umcombelelo	Sisindvo	Umehluko
	___ wemabhuloki	___ wemabhuloki	___ - ___ = ___



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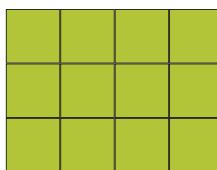


Kuphindza-kabili

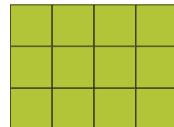
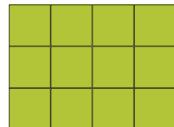


Phendvula loku lokulandzelako:

Tingaki tikwele letikhona?

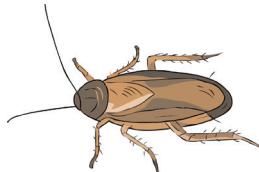


Tingaki lesetikhona manje?



Sitsi kuphindza kabili 12 ngema-24.

Mingaki imilente lekhona?

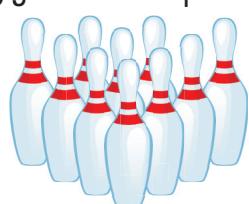


Mingaki imilente lekhona manje?

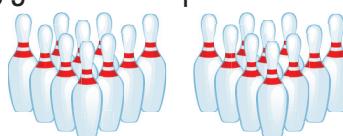


Sitsi kuphindza kabili 6 ngu

Tingaki tigojwana-mhlophe letikhona?



Tingaki tigojwana-mhlophe letikhona manje?



Sitsi kuphindza kabili 10 ngu

Mangaki emalanga lakhona evikini?

S	M	T	W	T	F	S

Mangaki emalanga lakhona emavikini lamabili?

S	M	T	W	T	F	S

Sitsi kuphindza kabili 7 ngu

Mangaki emakhirayoni lakhona?

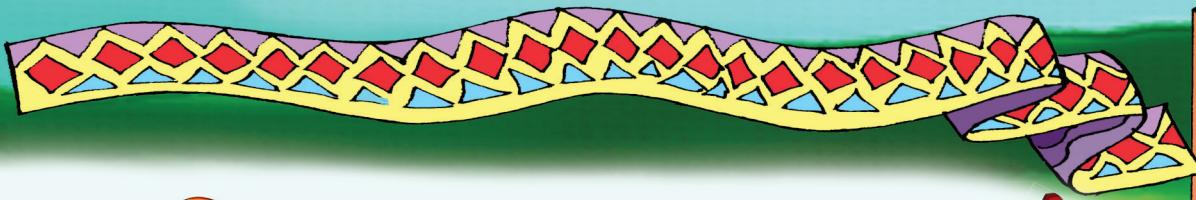


Mangaki emakhirayoni lakhona manje?



Sitsi kuphindza kabili 8 ngu





Gcwalisa
imphendvulo.

Imphindza kibili yaku-4	=	8
Imphindza kibili yeli-10	=	
Imphindza kibili yeli-11	=	
Imphindza kibili yaku-2	=	
Imphindza kibili yesi-6	=	



Gcwalisa imphendvulo.

Phindza kibili kibili ngu	kune
Imphindza kibili yakutsatfu ngu	
Imphindza kibili yakune ngu	
Imphindza kibili yesihlanu ngu	
Imphindza kibili yesitfupha ngu	
Imphindza kibili yesikhombisa ngu	



Cedzela lithebula.

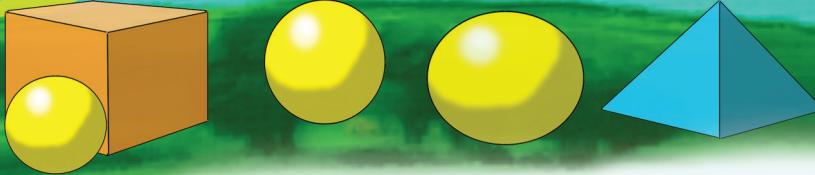
$9 + 9 + 1 =$	<input type="text"/>	noma	Imphindza kibili ya $9 + 1 =$	<input type="text"/>
	<input type="text"/>	noma	Imphindza kibili ya $8 + 1 =$	<input type="text"/>
$10 + 10 + 1 =$	<input type="text"/>	noma		<input type="text"/>
$7 + 7 + 1 =$	<input type="text"/>	noma	Imphindza kibili ya $7 + 1 =$	<input type="text"/>



Teacher: _____
Sign: _____
Date: _____



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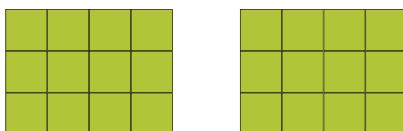


Kuhhafula

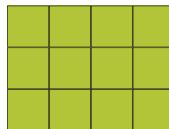


Phendvula loku lokulandzelako:

Tingaki tikwele letikhona?

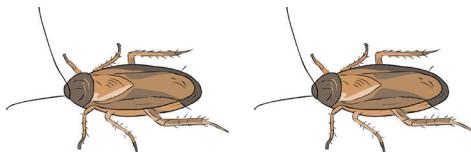


Sekunakungaki manje?

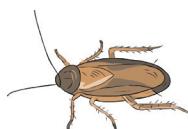


Sitsi ihhafu yema - 24 ngu 12.

Mingaki imilente lekhona?

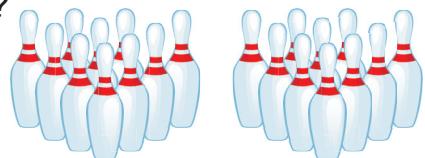


Mingaki imilente lekhona manje?



Sitsi ihhafu yeli - 12 ngu

Tingaki tigojwana-mhlophe
letikhona?



Tingaki tigojwana-mhlophe letikhona
manje?



Sitsi ihhafu yema - 20 ngu

Mangaki emalanga lakhona
emavikini lama - 2?

S	M	T	W	T	F	S

Mangaki emalanga lakhona evikini linye?

S	M	T	W	T	F	S

Sitsi ihhafu yeli - 14 ngu

Mangaki emakhirayoni lakhona?



Mangaki emakhirayoni lakhona manje?



Sitsi ihhafu yeli - 16 ngu





Gcwalisa
imphendvulo.

Ihhafu yesi-8	=	4
Ihhafu yeli-10	=	
Ihhafu yesi- 6	=	
Ihhafu yeli-12	=	
Ihhafu yeli-14	=	



Gcwalisa imphendvulo.



Ihhafu yakune ngu	kubili
Ihhafu yesitfupha ngu	
Ihhafu yakubili ngu	
Ihhafu yesiphohlongo ngu	
Ihhafu yelishumi ngu	



Gcwalisa imphendvulo.



Ihhafu yeli-10 ngu	5
Ihhafu yeli-12 ngu	
Ihhafu yeli-14 ngu	
Ihhafu yeli-16 ngu	
Ihhafu yeli-18 ngu	

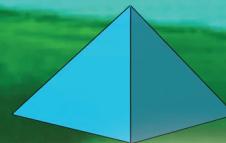
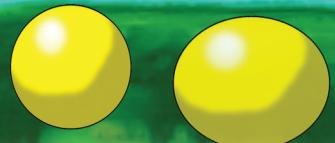
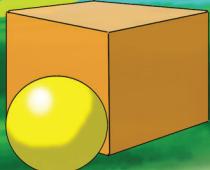


Teacher:
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Date:



11 12 13 14 15 16 17 18 19 20

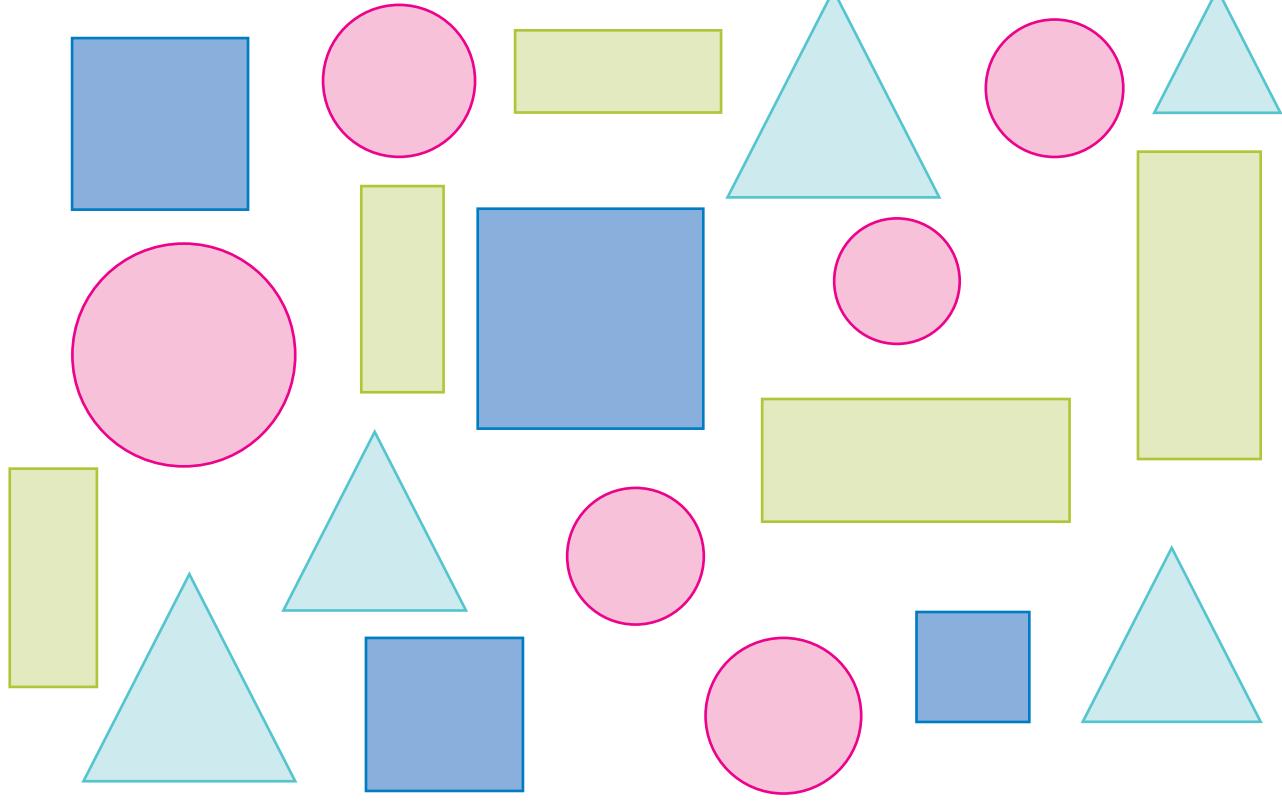
I24



Ithemu 4



Bala linani labobunjwa labehlukene labakhona, ubese uphendvula lembuto.

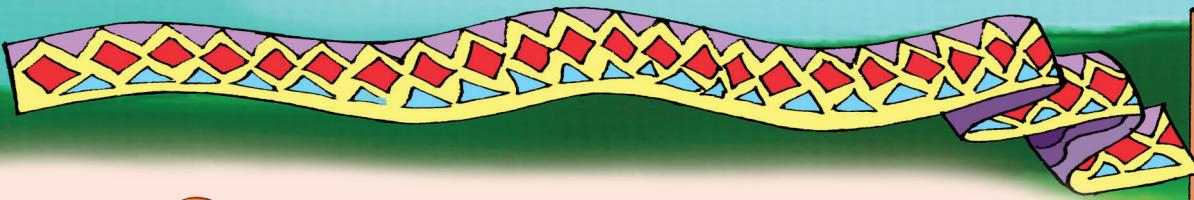


1. Tingaki tikwele letikhona?

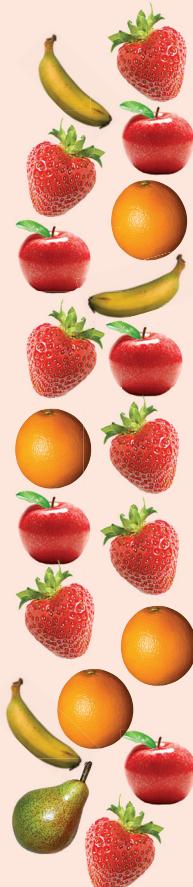
2. Bangaki bocalantsatfu labakhona?

3. Bangaki bocalandze labakhona?

4. Tingaki tindilinga letikhona?



Letitselo tikhettwe ngema - 20 ebangani bakho.
Hlunga titselo wente umdvwebo esitfombeni - mdvwebo
wetitselo lotihlungile ubese uphendvula lemibuto ngentasi.



Sitselo setfu lesiyintsandvokati?

Inkhomba =

Sitrobheri	Lihhabhula	Lipheya	Bhana	Li-orintji

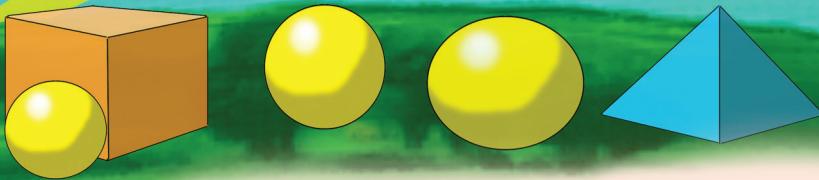
Bangaki bantfwana labatsandza emasitrobheri?	
Bangaki bantfwana labatsandza emahhabhula?	
Bangaki bantfwana labatsandza emapheya?	
Bangaki bantfwana labatsandza bhana?	
Bangaki bantfwana labatsandza ema-orintji?	
Ngusiphi sitselo bantfwana labasisandza kakhulu?	
Ngusiphi sitselo bantfwana labangasisitsandzi kakhulu?	



Teacher:
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Date:



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Sichubeka ngeminingwane



Bantfwana ekilasini banalamathoyizi lalandzelako.
Kungaki kwaluhlobo ngalunye labanako?

Ithemu 4

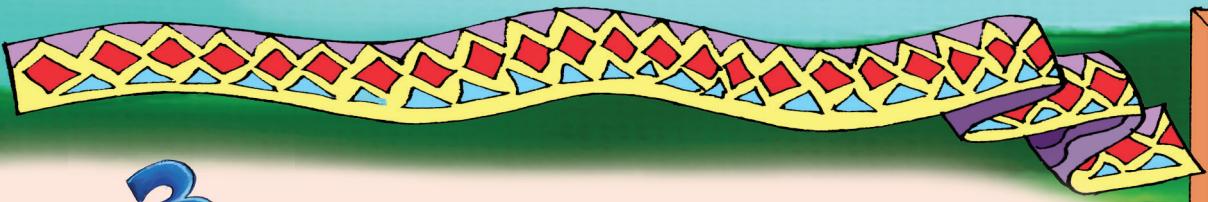


Cedzela lithebula.

Lithoyizi	Inombolo
Bomdoli	
Emaloli	
Bothedi	
Emarobhothi	

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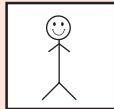


Cedzela lesitfombe - mdvwebo ngekudvweba linani lelifanele
letitfombe temuntfu-lutsi eluhlotjeni ngalunye lwelithoyizi.



Emathoyizi lesinawo

Inkhomba =



Bomdoli	Emaloli	Bothedi	Emarobhothi



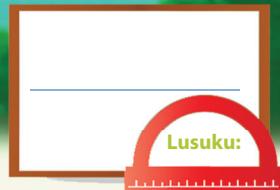
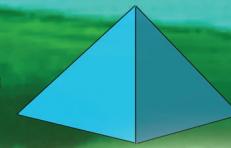
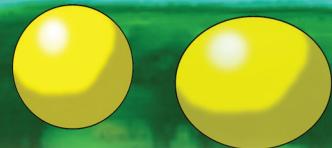
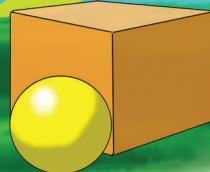
Phendvula lemibuto. Buka lomdvwebo - sitfombe kukusita.

Bangaki bantfwana labanamdoli?	
Bangaki bantfwana labaneloli?	
Bangaki bantfwana labanathedi?	
Bangaki bantfwana labanelirobhothi?	
Nguliphi lithoyizi leliyintsandvokati kakhulu?	
Nguliphi lithoyizi lelingatsandzeki kakhulu?	



Teacher:
Sign:
Date:





Sikukala njani lokusamanti?
Dwewba umugca kucondzanisa
lentfo kanye nelithuluzi lekuyikala
lelifanele.



Faka luhawu ✓
entfweni yekuphatsa
letakuphatsa
lokuncane kakhulu.



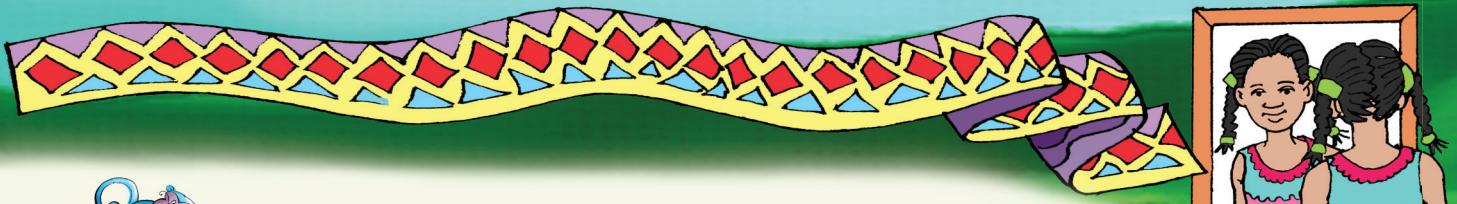
Faka luhawu ✓
entfweni yekuphatsa
letakuphatsa
lokunyenti kakhulu.



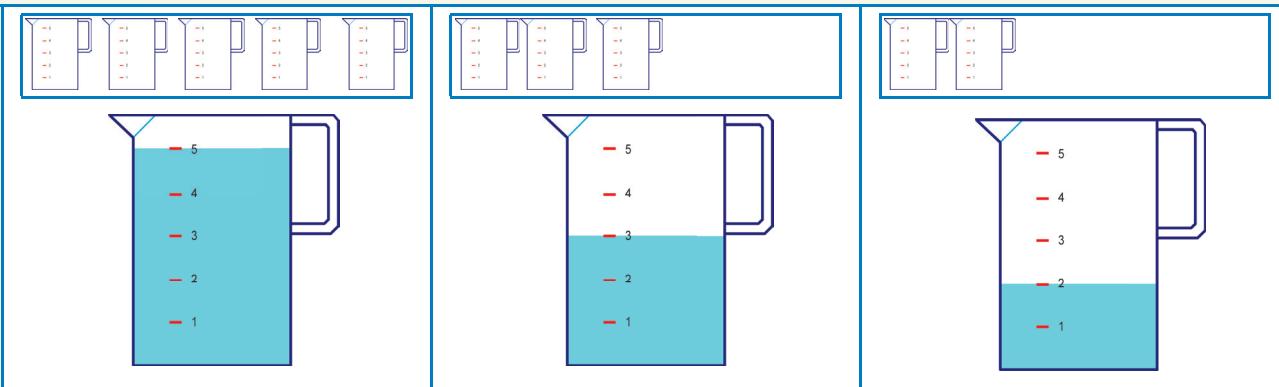
Letintfo tekuphatsa
ngabe tigcwele noma
tite lutfo?

Litsamo





Udzinga tinkomishi letisihlanu kugcwalisa ljeke linye. Tingaki letinye futsi tinkomishi lotidzingako kugcwalisa lamajeke lamanye lamabili? Tidvwebe.



Faka umbala esikalini lesingiso salokusamanti.

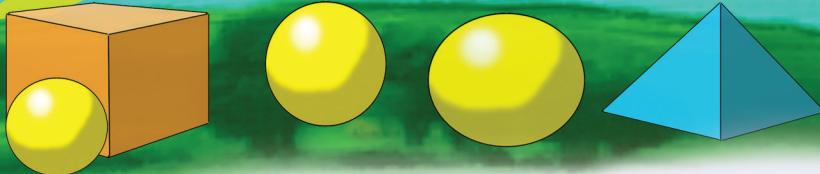
	$+$		$=$	<input type="text"/>
	$+$		$=$	<input type="text"/>
	$+$		$=$	<input type="text"/>



Teacher:
Sign:
Date:



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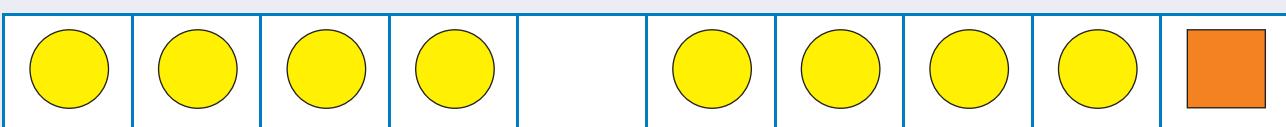
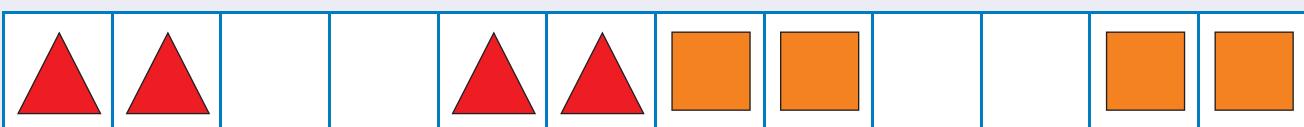
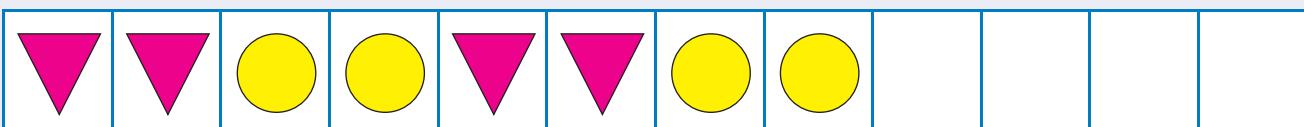
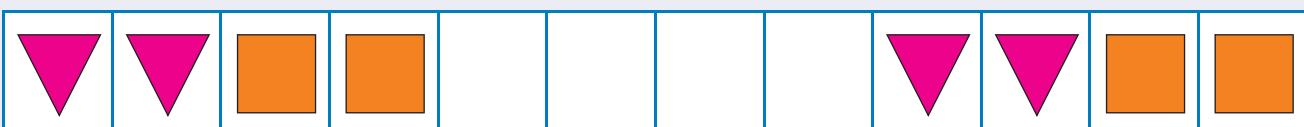
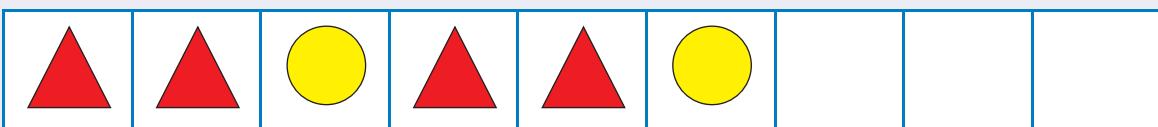


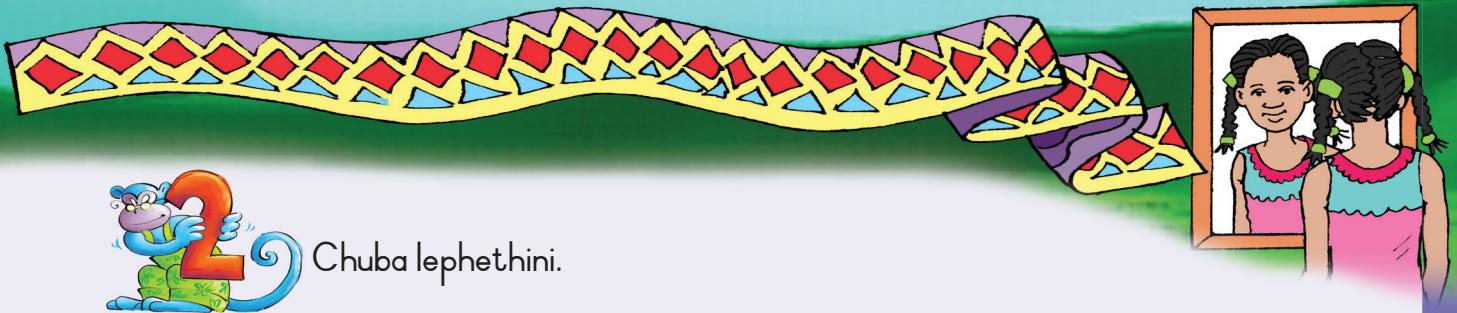
Emaphethini esijiyometri



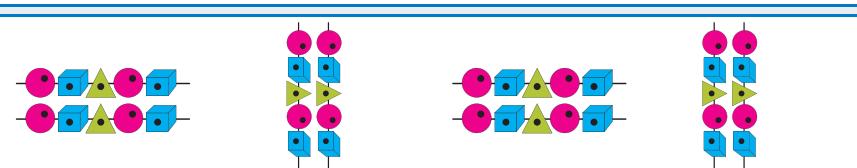
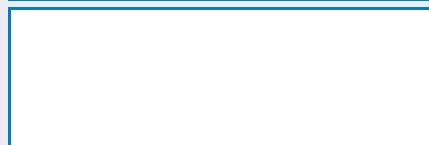
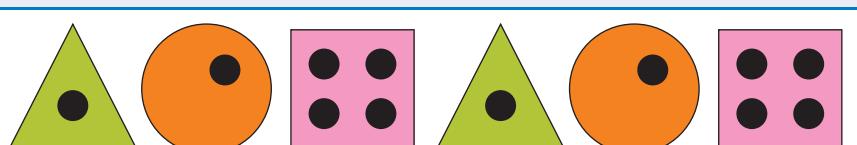
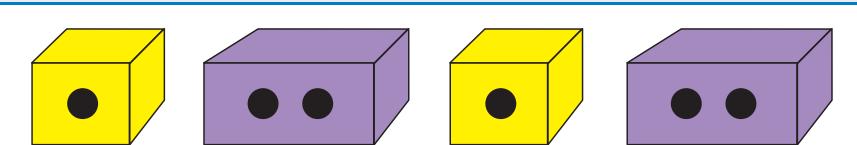
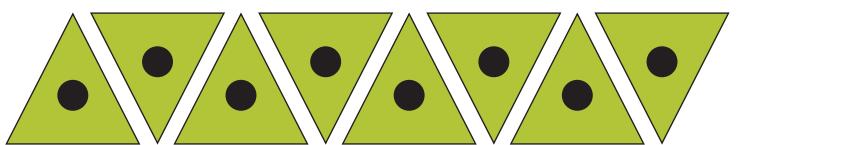
Cedzela lamaphethini.

Ithemu 4

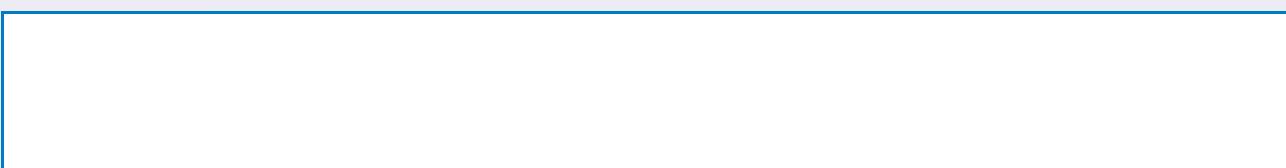




Chuba lephethini.



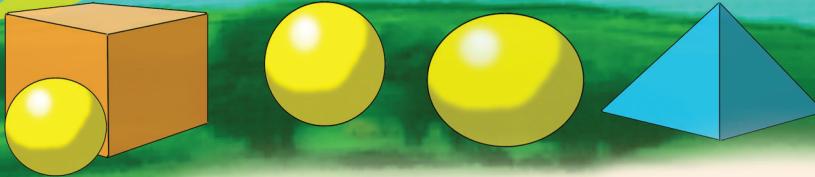
Yakha akakho emaphethini usebentisa tindilinga, tikwele nabocalantsatfu.



Teacher:
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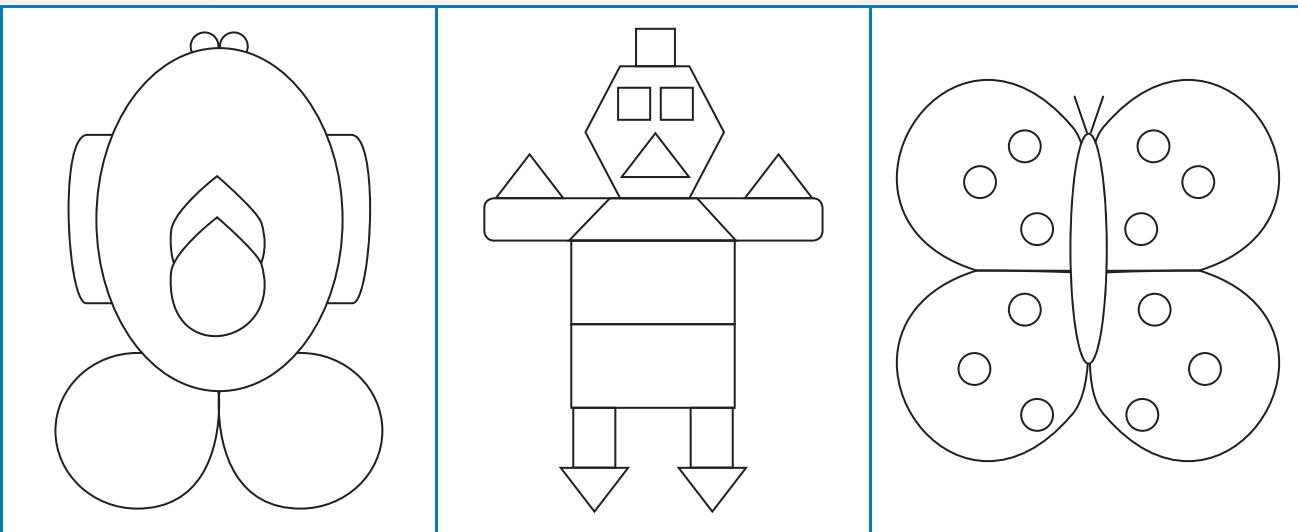
I28



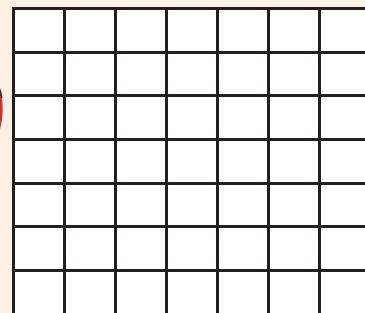
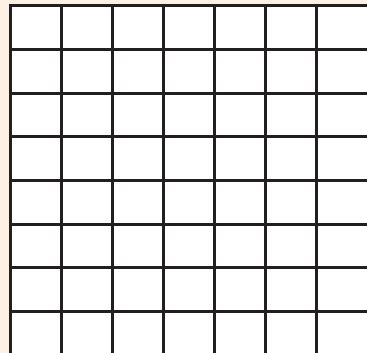
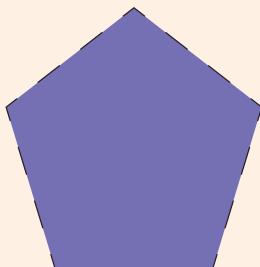
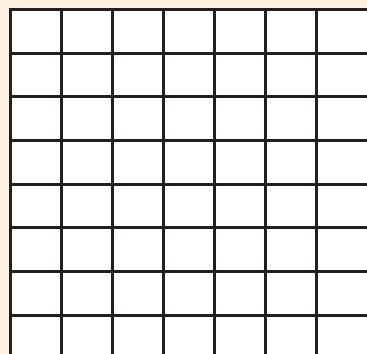
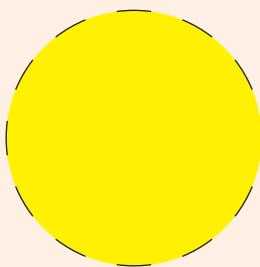
Ithemu 4



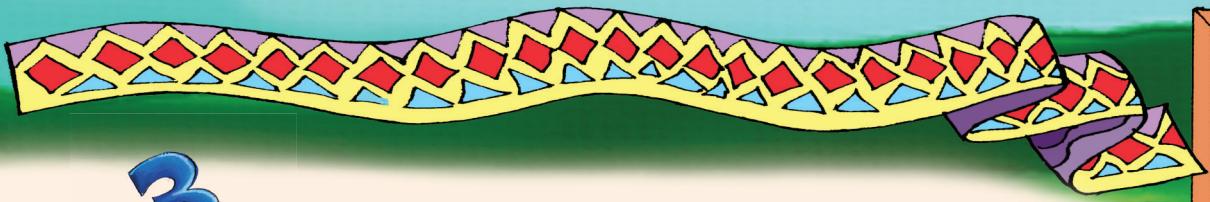
Dvweba umugca sibuko lowehlukanisa lesitfombe sibe bohhafu lababili labalinganako. Faka umbala kuhhafu munye wesitfombe ngasinye.



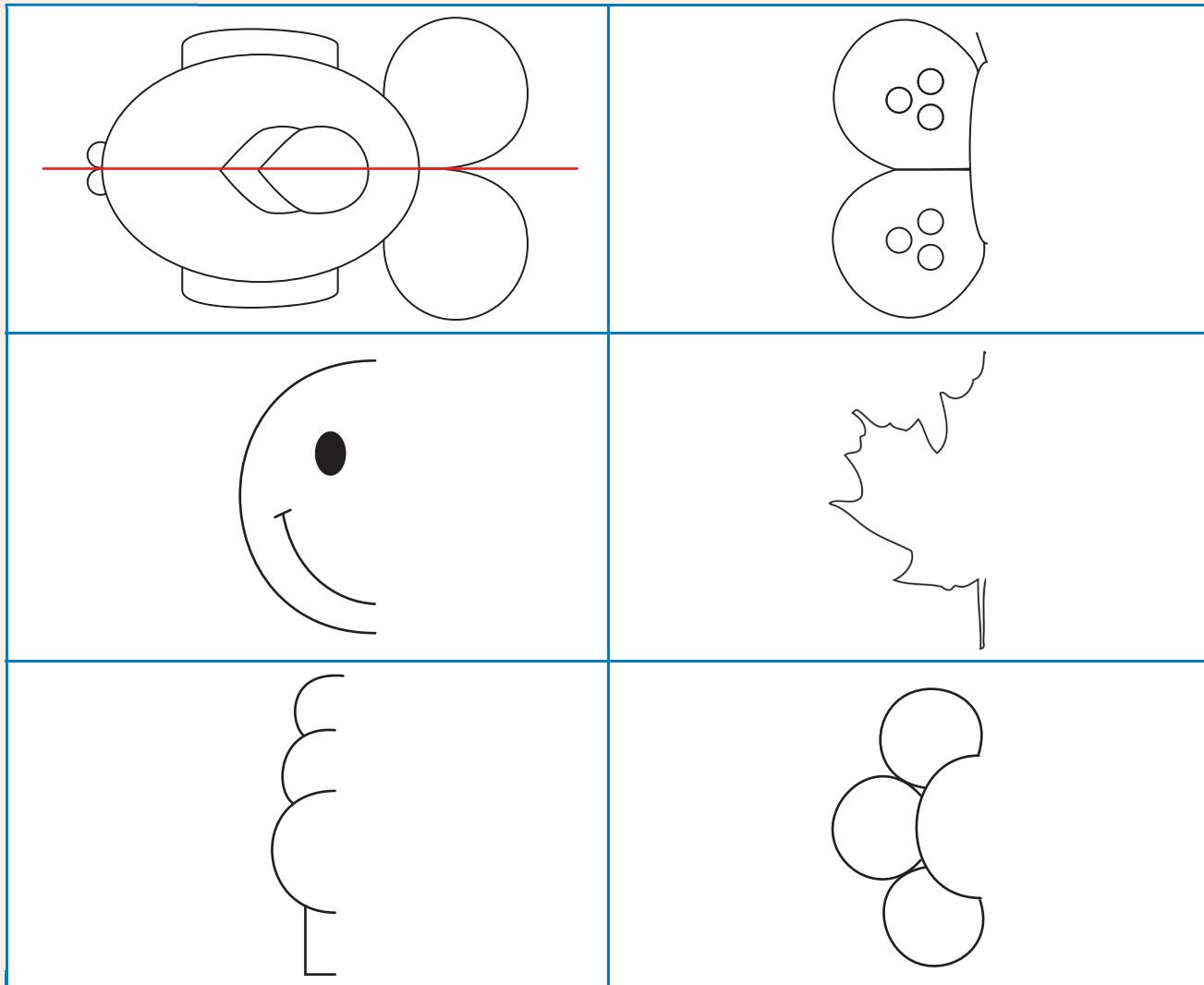
Kopa labobunjwa, bese udvweba umugca sibuko.



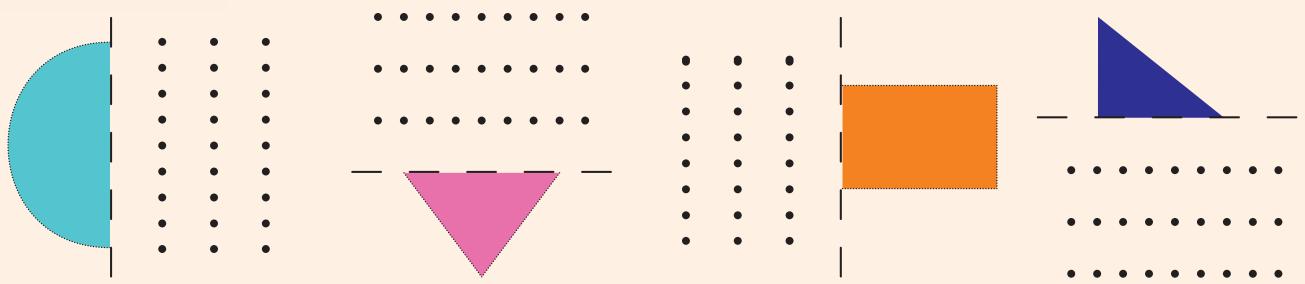
0 1 2 3 4 5 6 7 8 9 10



Cedzela lesitfombe ngekudvweba lohhafu afane ncwe nalona lomunye.



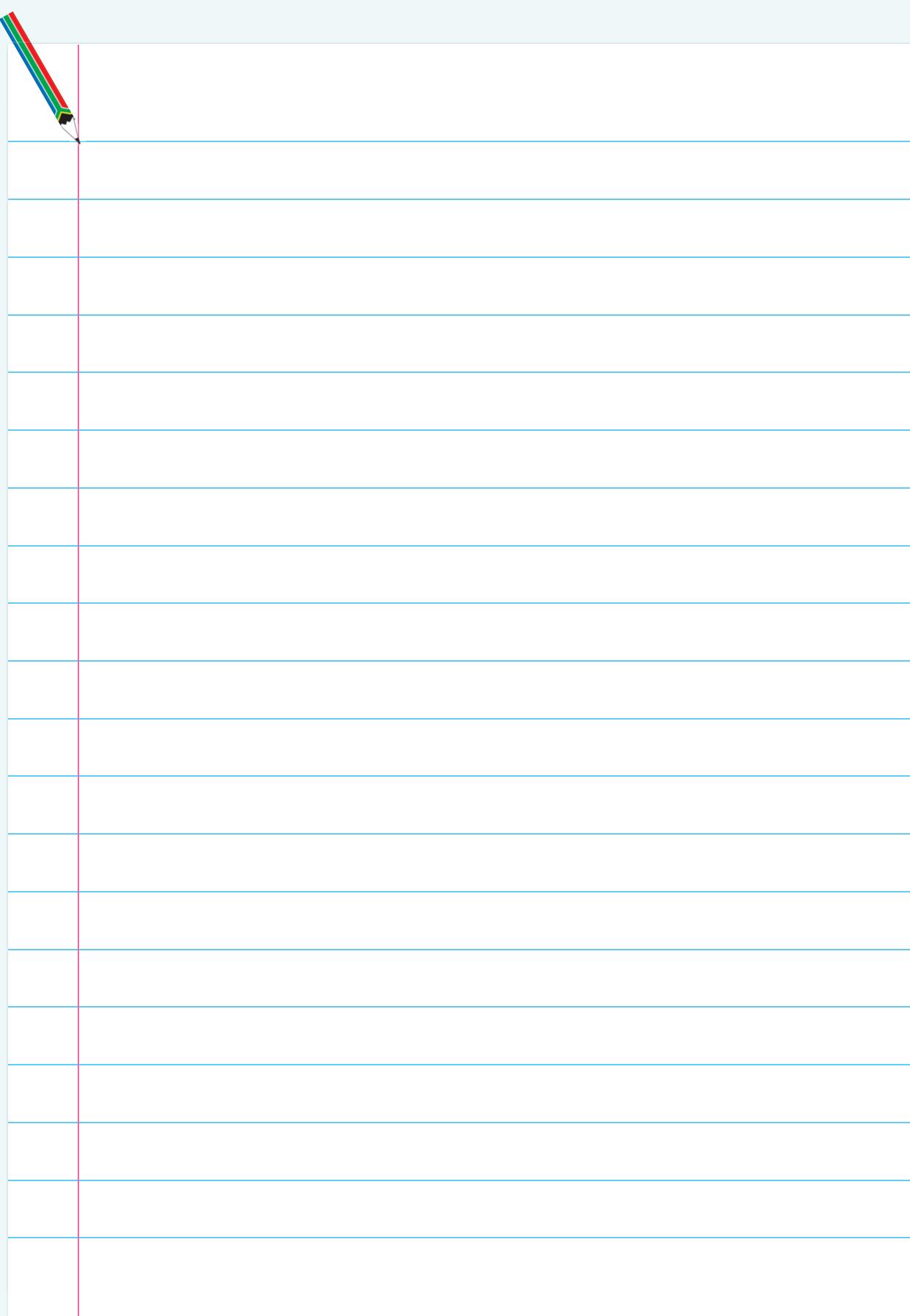
Dweba lona lomunye hhafu wabunjwa.



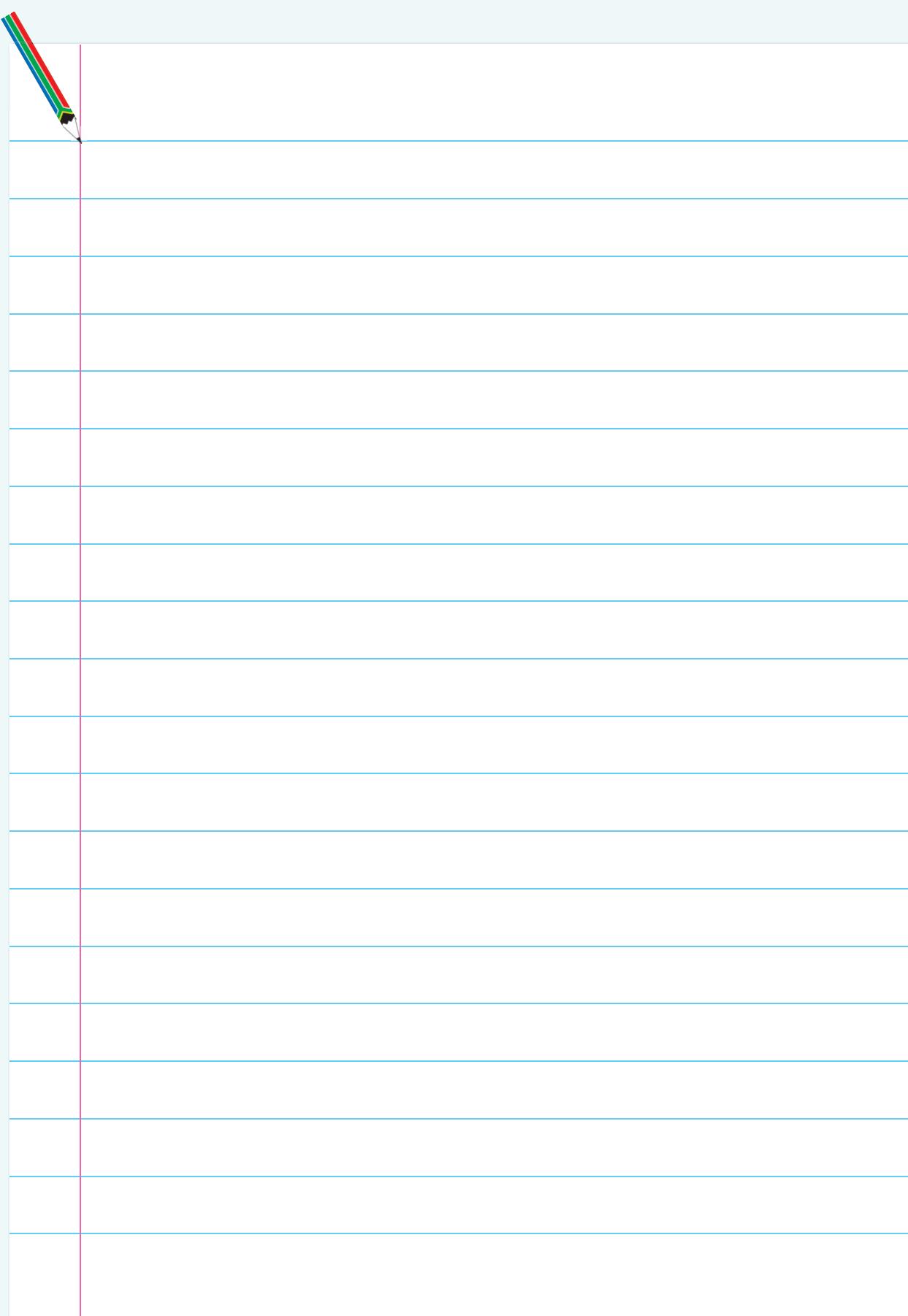
Teacher:
Sign:
Date:



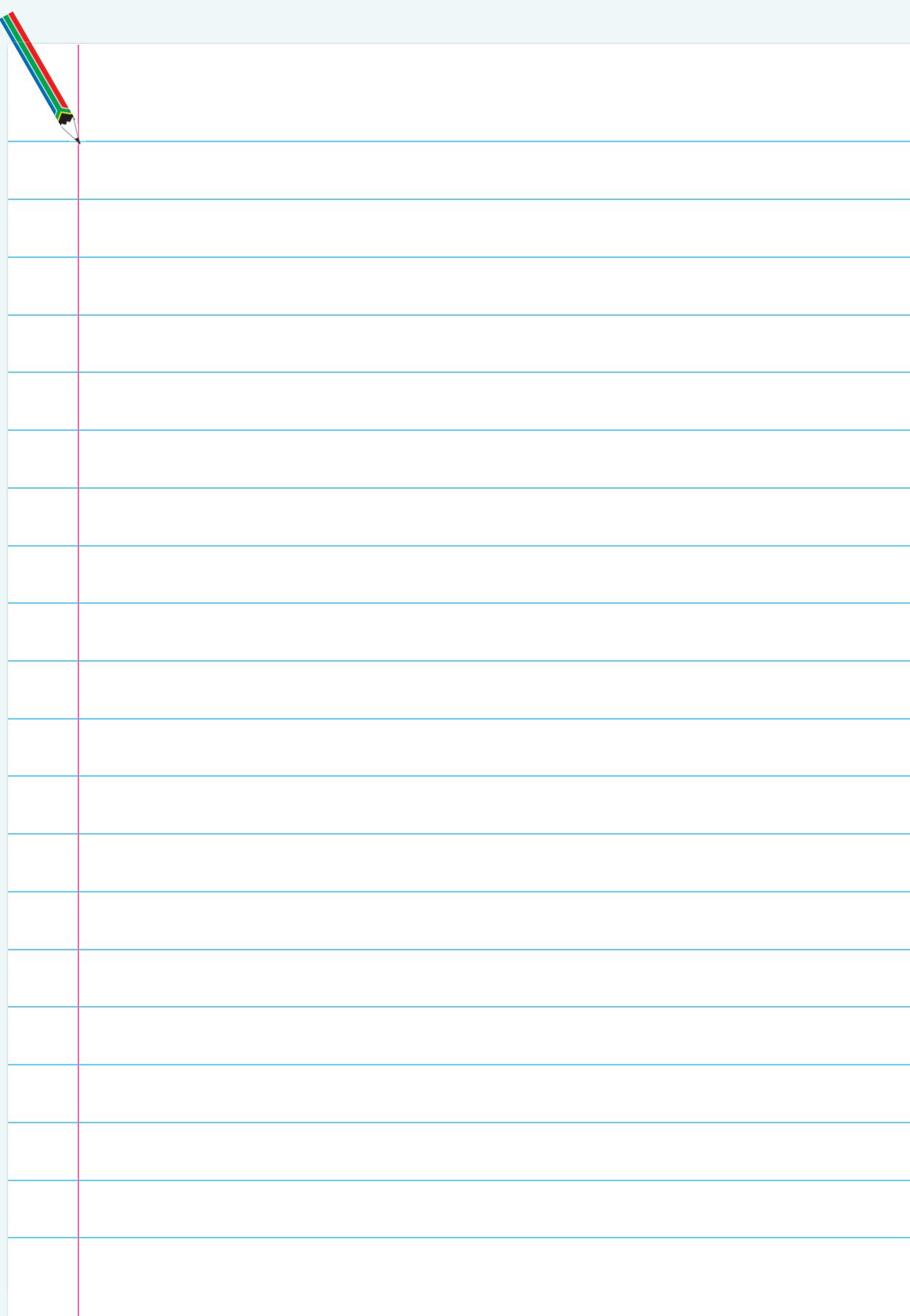
Emanotsi



Emanotsi

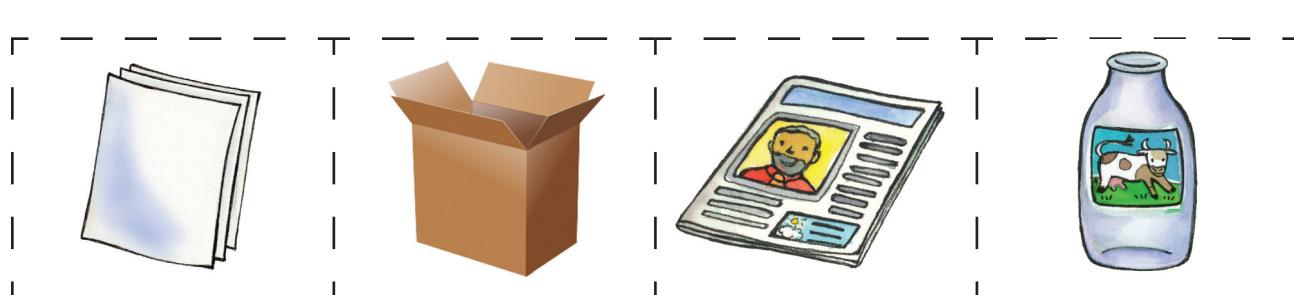
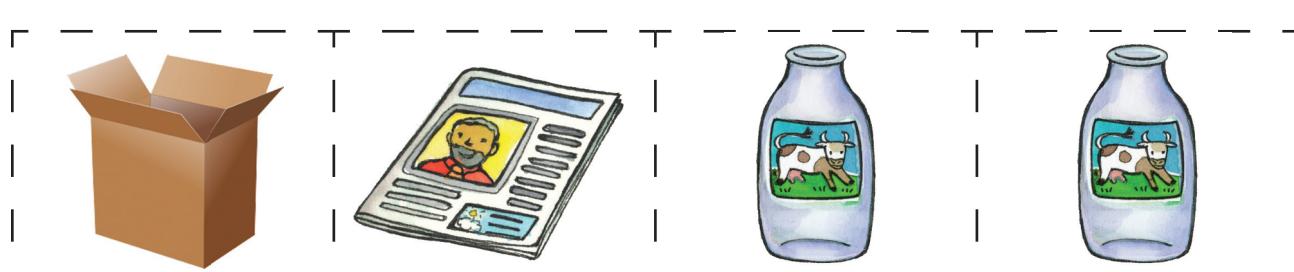
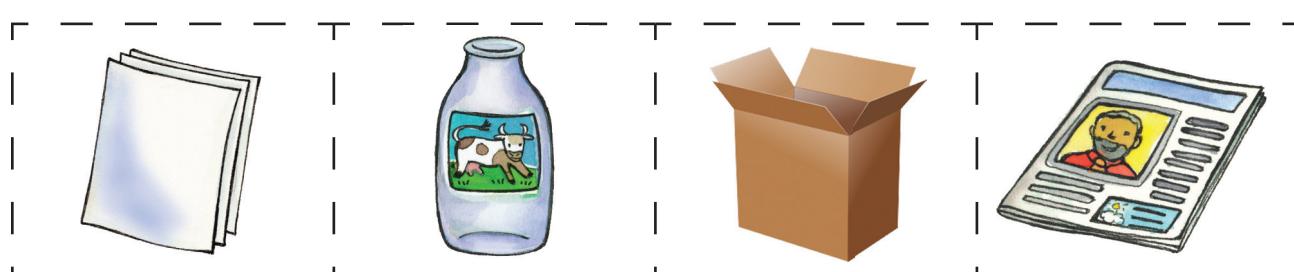
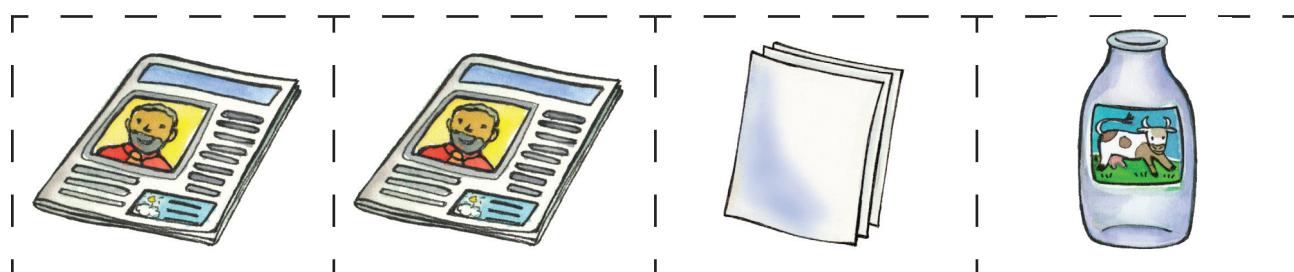
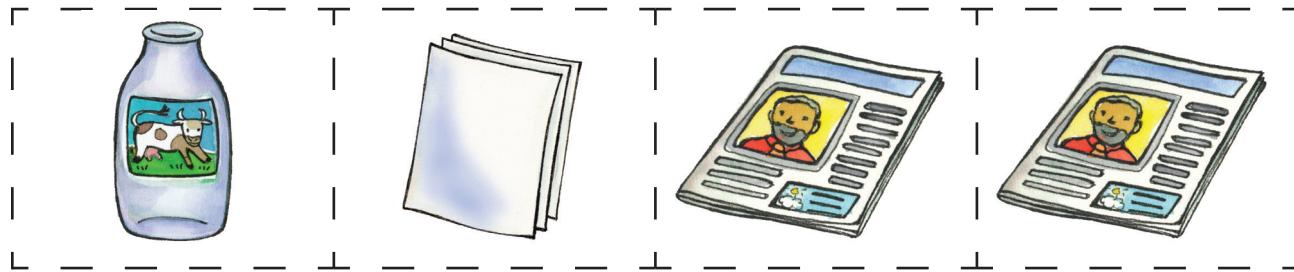


Emanotsi



Cut-out 1

Worksheet 79





Cut out cards 2

Worksheet 83

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

Worksheet 84

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

Worksheet 93

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

Worksheet 115

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

Worksheet 119

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

