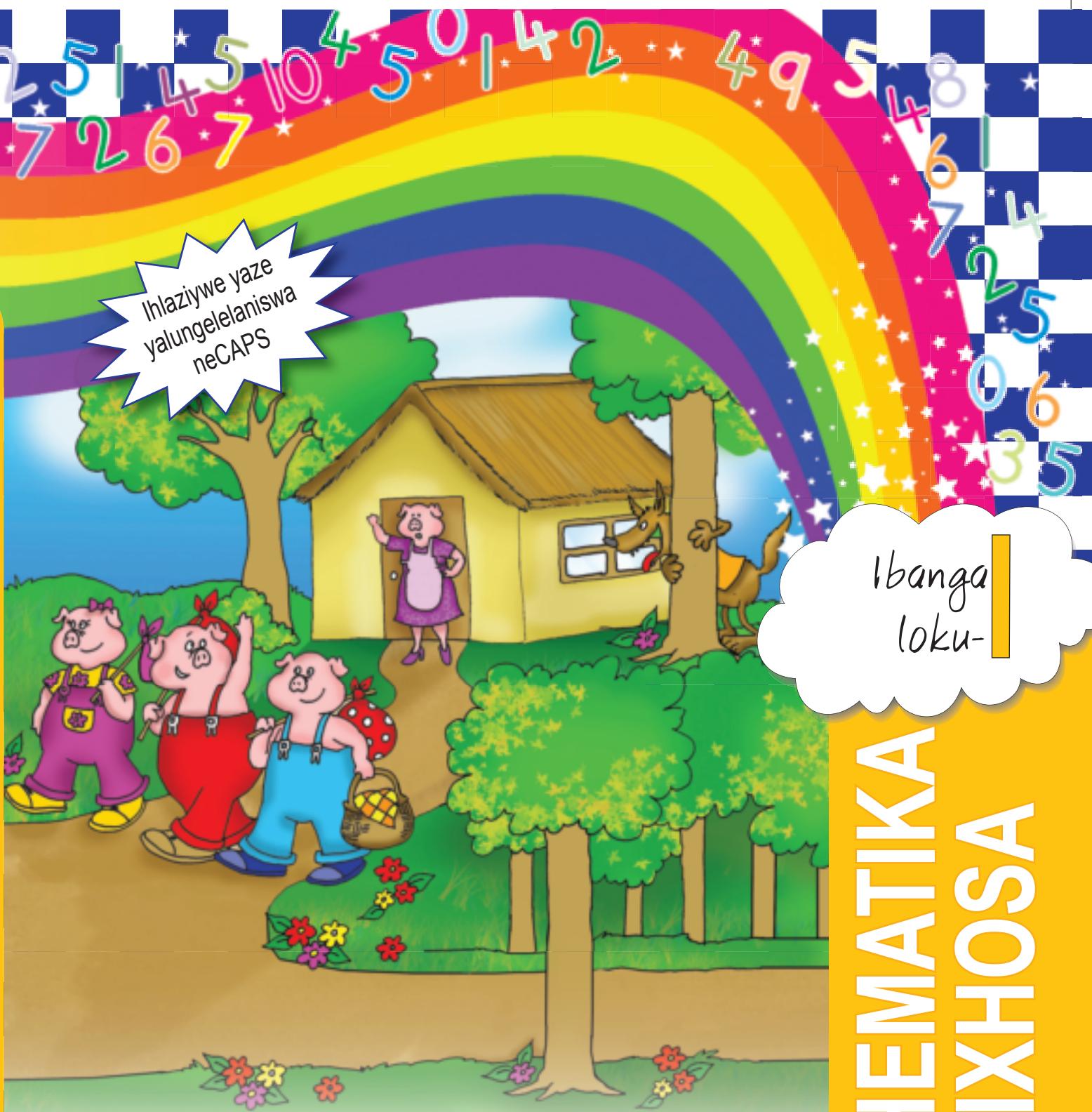


IMATHESIKA NGESIXHOSA

Incwadi yesi -2
Ikota 3 & 4



IMATHESIKA NGESIXHOSA – Ibanga loku- | Incwadi yesi -2

ISBN 978-1-4315-0127-4



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REPUBLIC OF SOUTH AFRICA

Rainbow WORKBOOKS

**MATHEMATICS IN ISIXHOSA
GRADE 1 – BOOK 2
TERMS 3 & 4
ISBN 978-1-4315-0127-4**

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7th Edition**

Ukufunda ngoMgaqo-siseko weRiphablikhi yoMzantsi Afrika (1996)

Umgqo-siseko weli loMzantsi Afrika (1996) uqulethe eyona mitetho yongameleyo yeli lizwe. Le mitetho ingaphezulu komongameli welizwe, ngaphezulu kweenkundla zamatala nangaphezulu kukarhulumente.

Le mitetho ichaza indlela abemi beli lizwe abafanele ukupathana ngayo, nokuba ayintoni amalungelo noxanduva lwabo omnye komnye. Umgqo-siseko welizwe ukho ukuze usikhusele ngalo mzuzu kwaye ukhuselabantu bethu kwixesha elizayo.

Masiyazi imvelaphi yethu.	Masingaphindi iimpazamo zexesha elidulileyo.	Umgqo-siseko wethu uyasineda ukuze sakhe ingomso elingcono lomntu wonke.
---------------------------	--	--

Thina, bantu boMzantsi Afrika,
Siyaqondza iimeko zolwaphulo-bulungisa zamaxesha ethu adlulileyo;
Sibanika imbeko abo beva ubunzima bebulalekela ubulungisa
nenkululeko elizweni lethu;
Siyabahlonela abo bathi basebenzela ukwakha nokuphuhlisa ilizwe lethu; kwaye
Sikholelwu ekubeni uMzantsi Afrika ngowethu sisonke thina sihlala kuwo, simanyene
nangani siziintlobo ngeentlobo.

Thina ke ngoko, ngabameli bethu abanyulwe ngokukhululekileyo, siyawuvuma lo
mGaqo-siseko ukuba ungowona mthetho wongameleyo weRiphablikhi ukuze—
Ungcibe udibanise izantlkwano zangaphambili uze wakhe uluntu olusekwe
kwizithethe ezixabisekileyo zedemokhrasi, ubulungisa kwezentlalo namalungelo
abantu asisiseko;
Wenze isiseko soluntu oluphila ngendlela yedemokhrasi nolwenza izinto elubala
apho urhulumente asekewi kwintando yabantu nalapho wonke ummi ekhuselwe
ngokulinganayo ngumthetho;
Uphucule ixabiso lokuphila kwabo bonke abemi, uze uvumele ukusebenza
kwesakhono somntu ngamnye; kanjalo

Wakhe uMzantsi Afrika omanyeneyo nonedemokhrasi onakho ukuthabatha
indawo yawo efanelekileyo njengelizwe elinobunganga kusapho lwezizwe
ngezizwe.

Wabange amalungelo akho njengommi weli loMzantsi Afrika kwave nawe uluthatheli kuwe uxanduva lokukhusela malungelo abanye.	Wazi amalungelo akho noxanduva lwakho.
---	---

Wanga uThixo angabakhuela abantu bakokwethu.
Nkosi Sikele' iAfrika. Morena boloka setjhaba sa heso.
God seën Suid-Afrika. God bless South Africa.
Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.

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1 2 3 4

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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



UNksk. Angie Motshekga,
uMphathiswa wemfundo
esisiSeko



UMnu. Enver Surty
uSekela Mphathiswa
wemfundo esisiSeko

Ezi ncwadi zilungiselelwe abantwana baseMzantsi Afrika phantsi kwephiko loMphathiswa weMfundu esisiSeko uNksk. Angie Motshekga kune noSekela Mphathiswa weMfundu esisiSeko uMnu. Enver Surty.

Ezi ncwadi zokusebenzela, iRainbow Workbooks, lelinye lamalinge ongenelelo eSebe leMfundu esisiSeko ajolise ekuphuculen umgangatho wabafundi beloMzantsi Afrika abakumabanga amathandathu okuqala. Njengomnye wemiba ephambili yoMkhomba-ndlela kaRhulumente, eli phulo libe nempumelelo ngenxa yenkxaso-mali evela kuVimba weSizwe. Oku kuye kwenza ukuba iSebe likwazi ukuvelisa ezi ncwadi, zifumanekе ngazo zonke iilwimi ezisemthethweni ngexabiso eliphantsi.

Sinethemba lokuba ootitshala bay a kuzifumana ezi ncwadi zokusebenzela ziluncedo kakhulu kwimfundu yemihla ngemihla, nasekuqinisekiseni ukuba abafundi bayifikelela yonke ikharityhulam. Ukuqinisekisa ukuba utitshala uyakhokelwa kuyo yonke imisetyenzana, sisebenzise izalathisi ezibonisa oko kufanele ukwenziwa ngumfundu.

Sinethemba lokwenene lokuba abantwana bay a kukonwabela ukusebenza kwezi ncwadi ekukhuleni nasekufundeni kwabo, kwanokuba nawe titshala uya kwabelana nabo kolu yolo.

Sinqwenela ukuba nibe nempumelelo ekusebenziseni ezi ncwadi.



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Ibanga
loku-



i M a t h e m a t i k a

NGESIXHOSA

Le ncwadi yeka -:

ISIXHOSA

Incwadi
yesi-

2



65



Ikota 3

Masiqonde inani II

Uhlaziyo:

Ziqhelise ukubhala la manani.



inye

I I

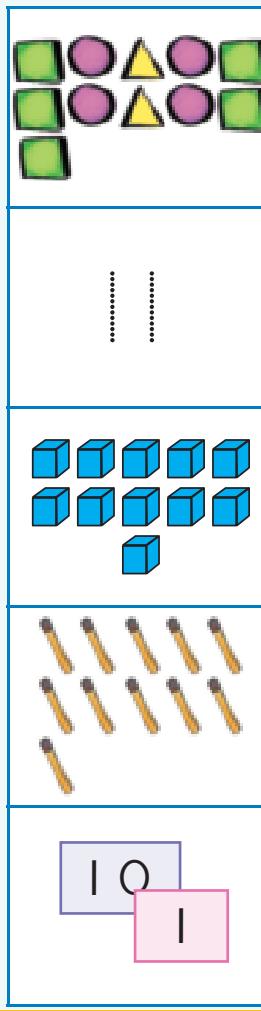
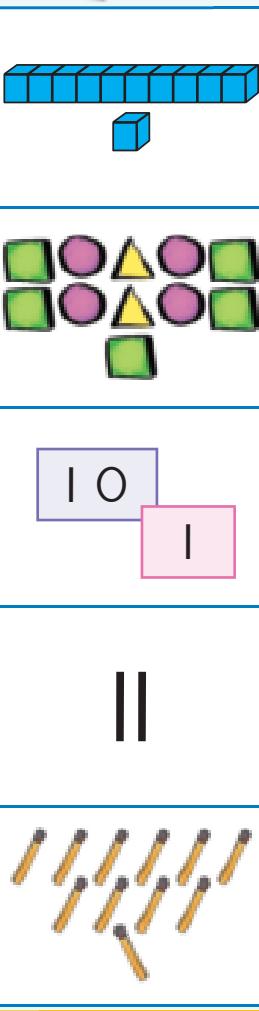


zimbini

2 2



Tshatisa imifanekiso.



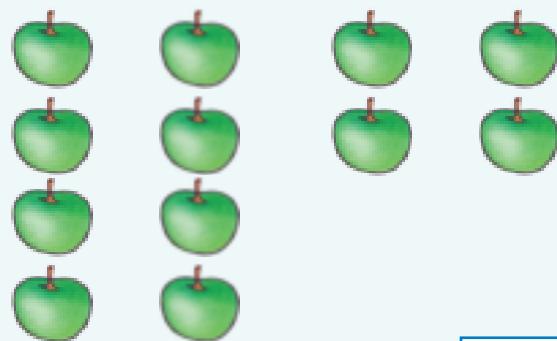
Biyela ezi zinto.



Biyela iilekese ezilishumi kphela.

Zingaphi iilekese ezishiyekileyo?

Biyela ama-apile alishumi kphela.



Mangaphi ama-apile
ashiyekileyo?



2

0

1

2

3

4

5

6

7

8

9

10



Khuphela la manani.

ishumi elinanye			



Ikhoram nganye
kufuneka yenze i-||
xa iyonke. Fakela
amanani ashiiywego.



3	5	4
4	5	
4		2



Zoba izinto zibe li-||.



Fakela amanani ashiiywego.



Bala ezi zinto.





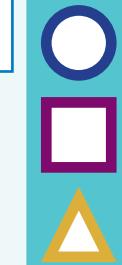


Gqibezela itheyibhile. Umqolo ngamnye
unomfanekiso, inani kunye negama elimele elo
nani.

		ishumi elinanye
		ishumi elinanye
	ishumi elinanye	



Leliphi inani elinganeno
ngononye kune-||? _____



Teacher:
Sign:

Date:

66



Ikota 3

Masiqonde inani 12

Uhlaziyo:

Ziqhelise ukubhala la manani.



zintathu

3 3



zine

4 4



Tshatisa imifanekiso.



Biyela ezi zinto.

Biyela izihlangu ezili-10 kuphela.



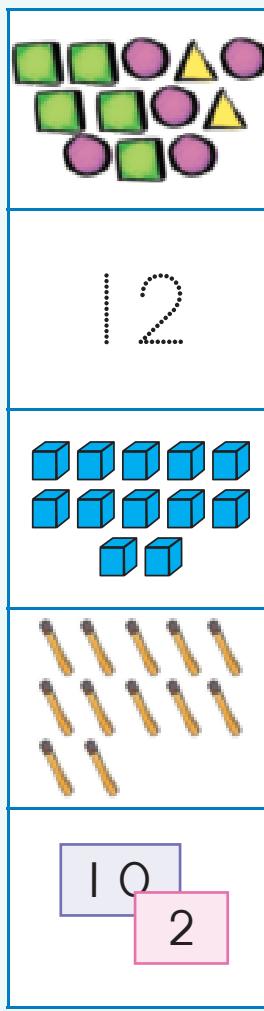
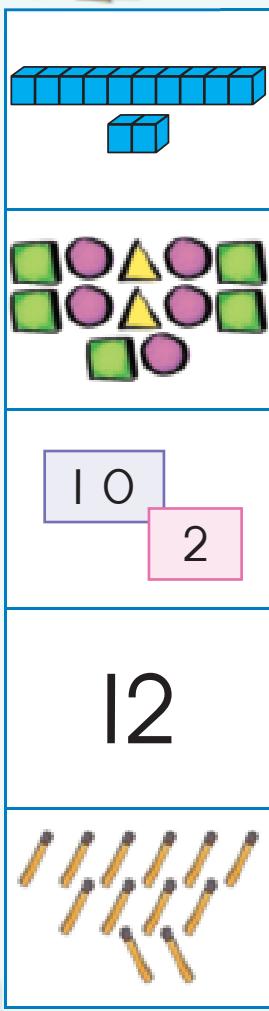
Zingaphi izihlangu
ezishiyekileyo?



Biyela oonokrwece abali-12 kuphela.



Bangaphi oonokrwece
abashiyekileyo?



0

1

2

3

4

5

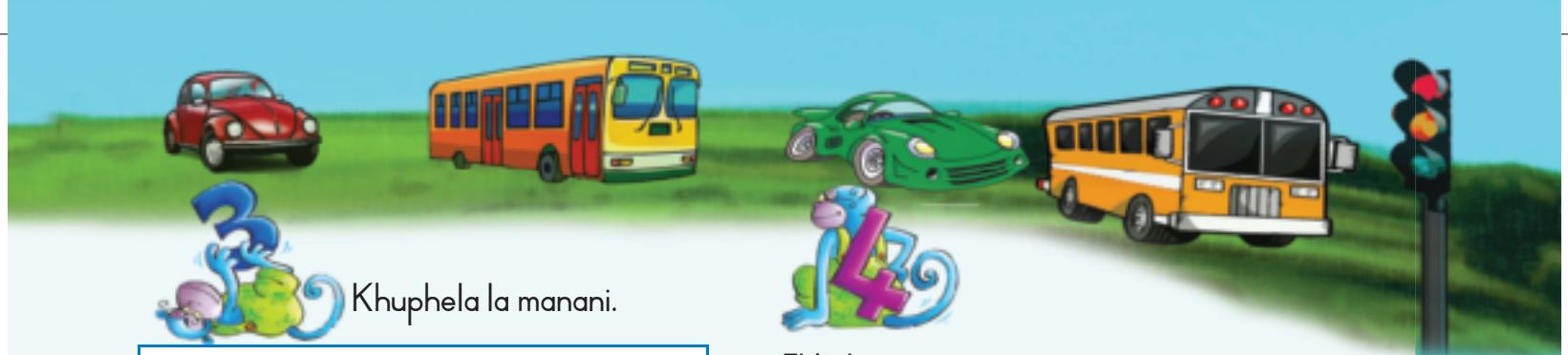
6

7

8

9

10



Khuphela la manani.

12	12	12	12
ishumi elinesibini			
12	12	12	12



Ikhoram nganye
kufuneka yenze
i-12. Fakela amanani
ashiyiwego.

	7	6
4		4
3	2	
12	12	12



Zoba izinto ezili-12.



Fakela amanani ashayiwego.

3			5			
8				11		



Bala ezi
zinto.







Gqibezela itheyibhile. Umqolo ngamnye
unomfanekiso, inani negama elimele elo nani.

		ishumi elinesibini
	12	ishumi elinesibini
		12
	ishumi elinesibini	



Leliphi inani elinganeno
ngononye kune-12? _____



Leliphi inani elingaphezulu
ngononye kune-12? _____

Teacher:
Sign:
Date:

67



Ikota 3

Masiqonde inani 13

Uhlaziyo:

Ziqhelise ukubhala la manani.



zintlanu

5 5



zintandathu

6 6



Tshatisa imifanekiso.

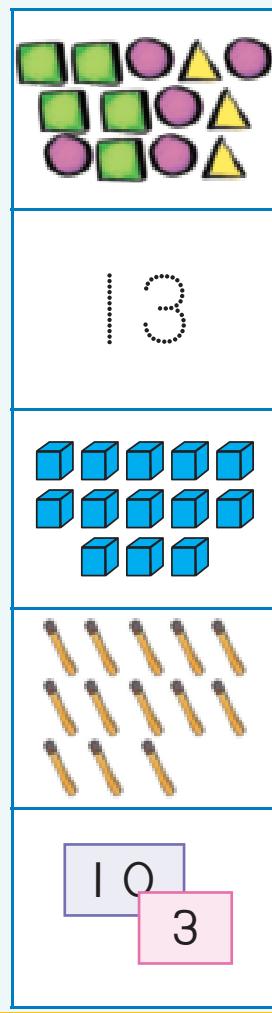
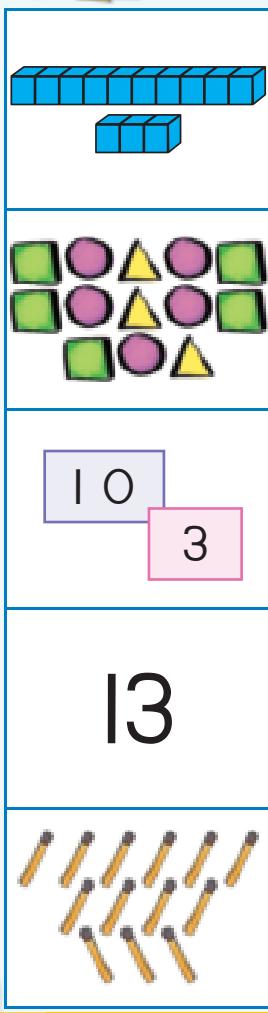


Biyela ezi zinto.

Biyela iikati ezili - 10 kuphela.



Zingaphi iikati ezishiyekileyo?



Biyela iminqathe ibe li - 13 kuphela.



Mingaphi iminqathe eshiyekileyo?



6

0

1

2

3

4

5

6

7

8

9

10



Khuphela la manani.

I3	I3	I3	I3
----	----	----	----

ishumi elinesithathu

I3	I3	I3	I3
----	----	----	----

Ikhola
nganye
kufuneka
yenze
i-I3.

I	2	6
I		
	3	2
I3	I3	I3



Zoba izinto ezili-I3.

Khawuzizobe ngenye indlela ke ngoku.

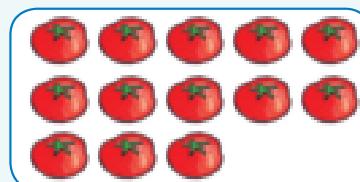


Fakela amanani
ashiyiwego.

<input type="text"/>	<input type="text" value="I0"/>	<input type="text"/>	<input type="text" value="I2"/>	<input type="text"/>
----------------------	---------------------------------	----------------------	---------------------------------	----------------------



Bala ezi zinto.



Gqibezela itheyibhile. Umqolo ngamnye
unomfanekiso, inani negama elimele elo nani.



 		ishumi elinesithathu
	I3	ishumi elinesithathu
I3	 	
	ishumi elinesithathu	

Leliphi inani elinganeno
ngononye kune-I3? _____

Leliphi inani elingaphezulu
ngononye kune-I3? _____



68



Ikota 3

Masiqonde inani 14

Uhlaziyo:

Ziqhelise ukubhala la manani.



7 7



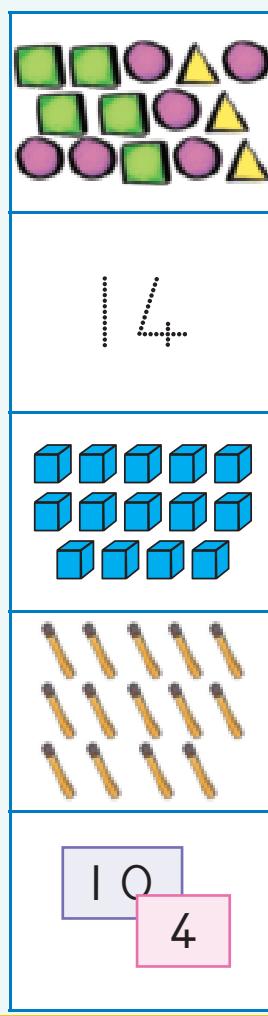
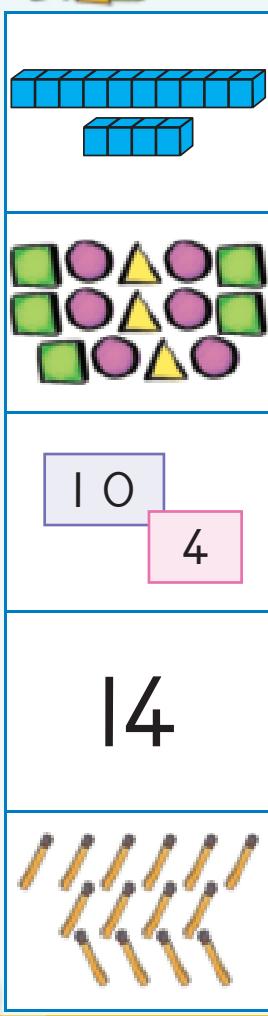
8 8



Tshatisa imifanekiso.



Biyela ezi zinto.



Mangaphi amabhabhathane
ashiyeyleyo?

Biyela iiokhwe ezili - 14 kuphela.



Zingaphi iiokhwe ezishiyeyleyo?



0 1 2 3 4 5 6 7 8 9 10



Khuphela la manani.

| 4 | 4 | 4 | 4 |

ishumi elinesine

| 4 | 4 | 4 | 4 |



Ikhola nganye
kufuneka yenze
i-14. Fakela amanani
ashiyiweyo.

1		2
	5	1
3	2	
14	14	14



Zoba izinto zibe li-14.

Khawuzizobe ngenye indlela ke ngoku.



Bala ezi zinto.







Fakela amanani ashayiweyo.



Gqibezela itheyibhile. Umqolo ngamnye
unomfanekiso, inani negama elimele elo nani.

	14	ishumi elinesine
14		
	ishumi elinesine	



Leliphi inani elinganeno
ngononye kune-14? _____

Leliphi inani elingaphezulu
ngononye kune-14? _____



Teacher:
Sign:
Date:



69



Ikota 3

Masiqonde inani 15

Uhlaziyo:

Ziqhelise ukubhala la manani.



q q



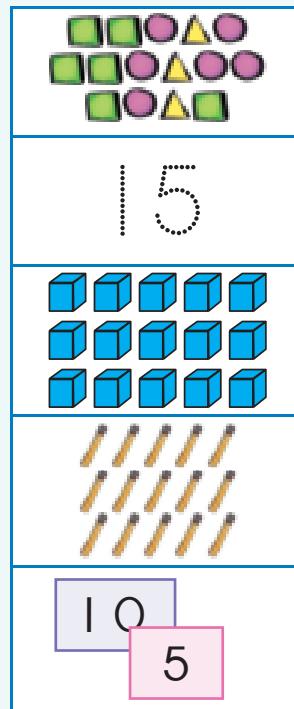
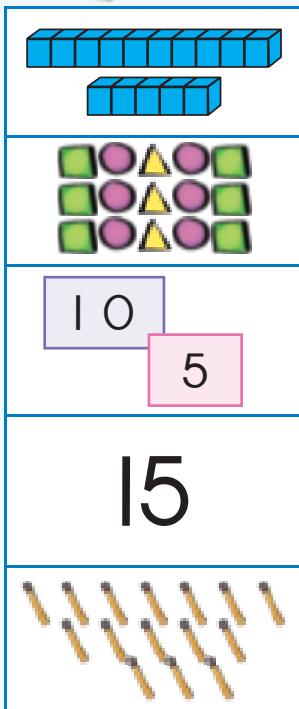
10 10



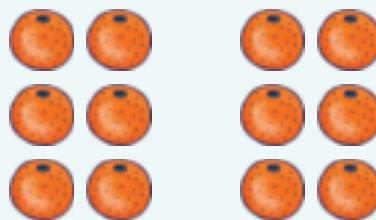
Tshatisa imifanekiso.



Biyela ezi zinto.



Biyela ii-orenji ezili-10 kuphela.



Zingaphi ii-orenji ezishiyeleyo?

Biyela iinkwenkwezi ezili-15 kuphela.



Zingaphi iinkwenkwezi ezishiyeleyo?

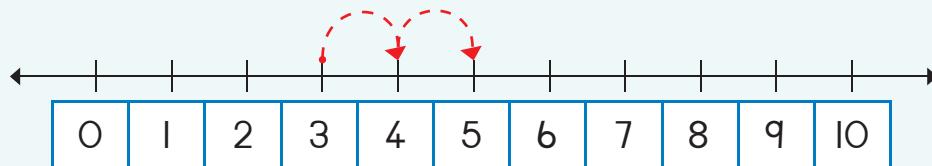
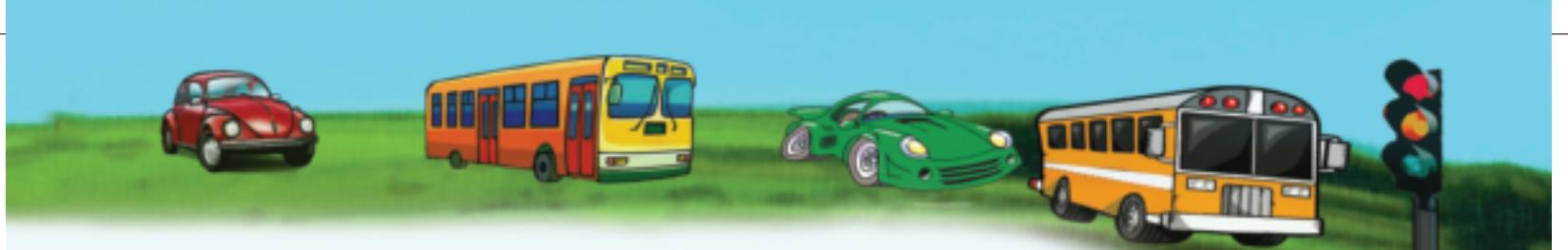


Fakela iiimpendulo.



$7 + 2 =$





$$4 + 2 =$$



Khuphela la manani.



Zoba izinto zibe li-15.

15	15	15	15
ishumi elinesihlanu			
15	15	15	15

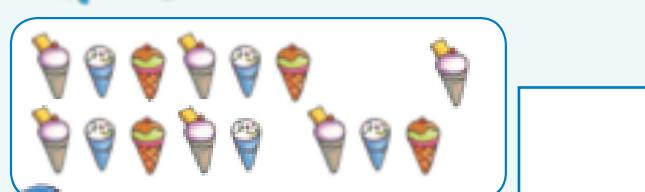


Fakela amanani ashiyiwego.

Zizobe ngenye indlela ke ngoku.

7	11	12	13		15
9					15
					13
					12

Bala ezi zinto.



Gqibezela itheyibhile. Umqolo ngamnye unomfanekiso, inani negama elimele elo nani.



	15	ishumi elinesihlanu
		ishumi elinesihlanu
15		

Leliphi inani elinganeno ngononye kune-15? _____

Leliphi inani elingaphezulu ngononye kune-15? _____



11 12 13 14 15 16 17 18 19 20



70



Ukudibanisa uyokufika kuma -20 - bala uye phambili

Ikota 3

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

6

zintandathu



Jonga umfanekiso uze ubhale isivakalisi - manani ngomfanekiso ngamnye.

ULisa uneelekese ezi - 3. U Mandla yena
uneelekese ezi - 5. Zingaphi iilekese
abanazo zidibene?



Masibale:

3	4	5	6	7	8
	...				
+					=

Bendinamapetyu asi - 8 kwaza kwalahleka
ama - 4. Mangaphi amapetyu endinawo
ashiyekileyo?

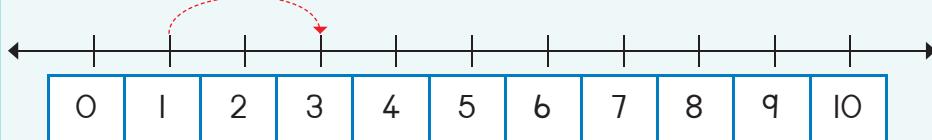


Masibale sibuye umva:

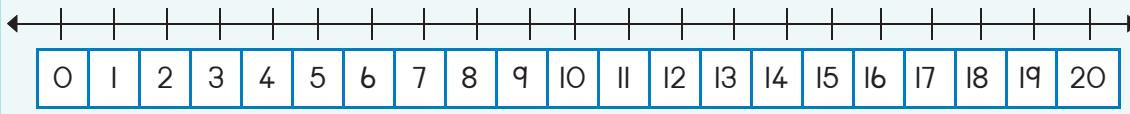
8	7	6	5	4
	...			
-				=



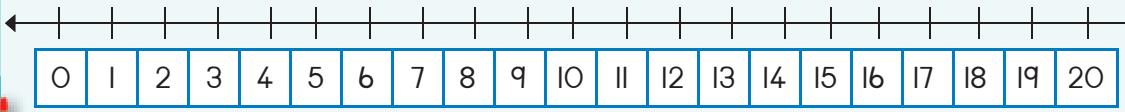
Bhala iimpendulo.



$$1 + 2 = \boxed{}$$



$$13 + 2 = \boxed{}$$



$$15 + 2 = \boxed{}$$

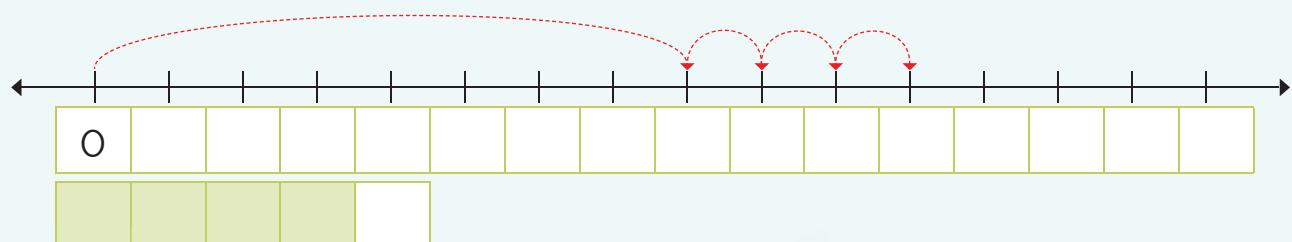
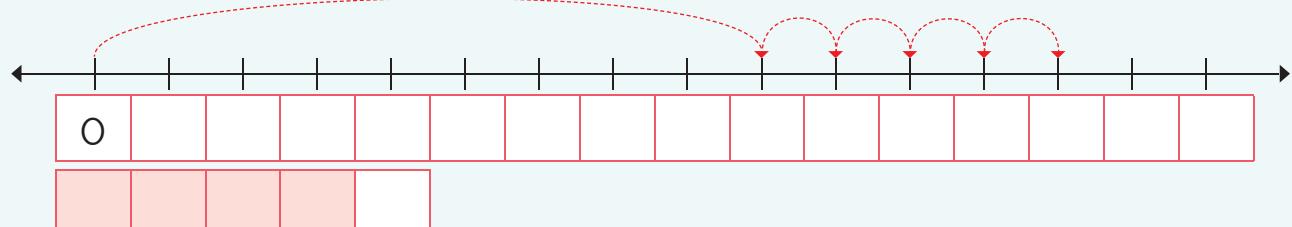
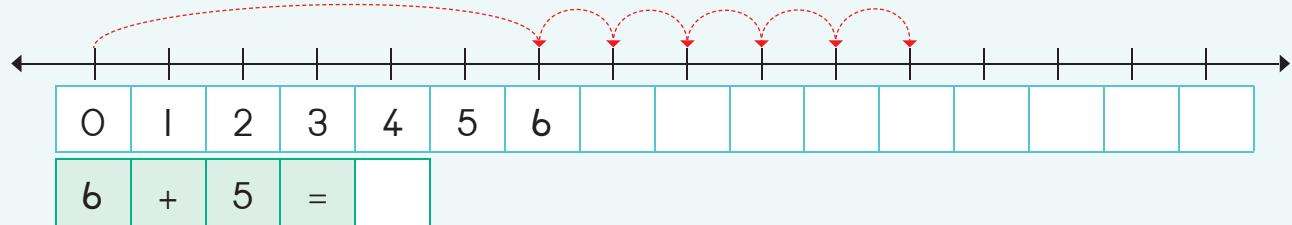


12

0 1 2 3 4 5 6 7 8 9 10



Fakela amanani kumgca-manani uze ubhale
isivakalisi-manani.



Yongeza
zibe-2.

3	5
4	
2	



7	
8	
6	



Fakela amanani.

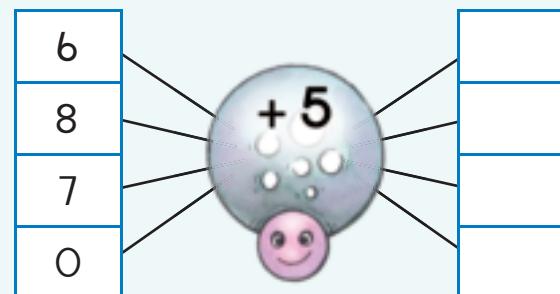


Nceda isigcawu sigqibezele
esi sibalo.

Ndineminyaka esi - 7 ubudala.
Ndiza kuba neminyaka emingaphi
kwiminyaka emi - 5 ezayo?

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

Ndiza kuba neminyaka eli - _____.



71



Ikota 3

Ukudibanisa – ukwakha nokucalula amanani ukuya kwi-10

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

7

zisixhenxe



Bhala impendulo.

Fakela imibala ubonise oku
kulandelayo.

$3 + 3 = \square$



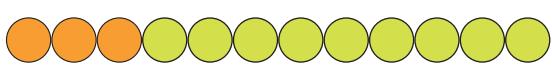
$0 + 5 = \square$



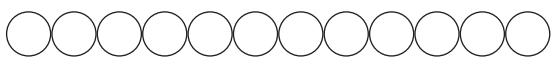
$3 + 2 + 1 = \square$



$3 + 9$



$4 + 8$



$5 + 7$



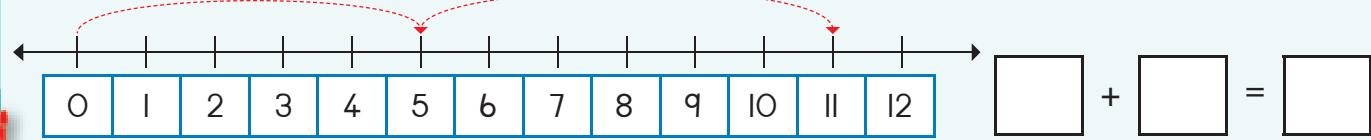
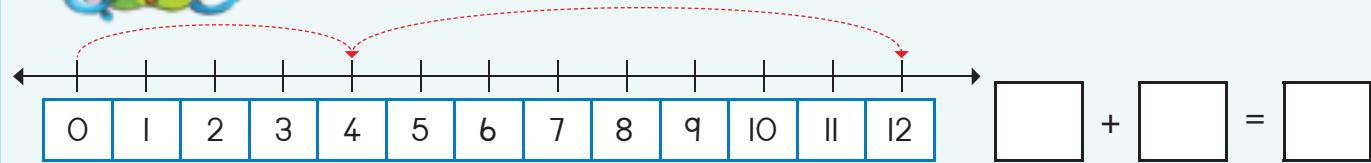
$6 + 6$



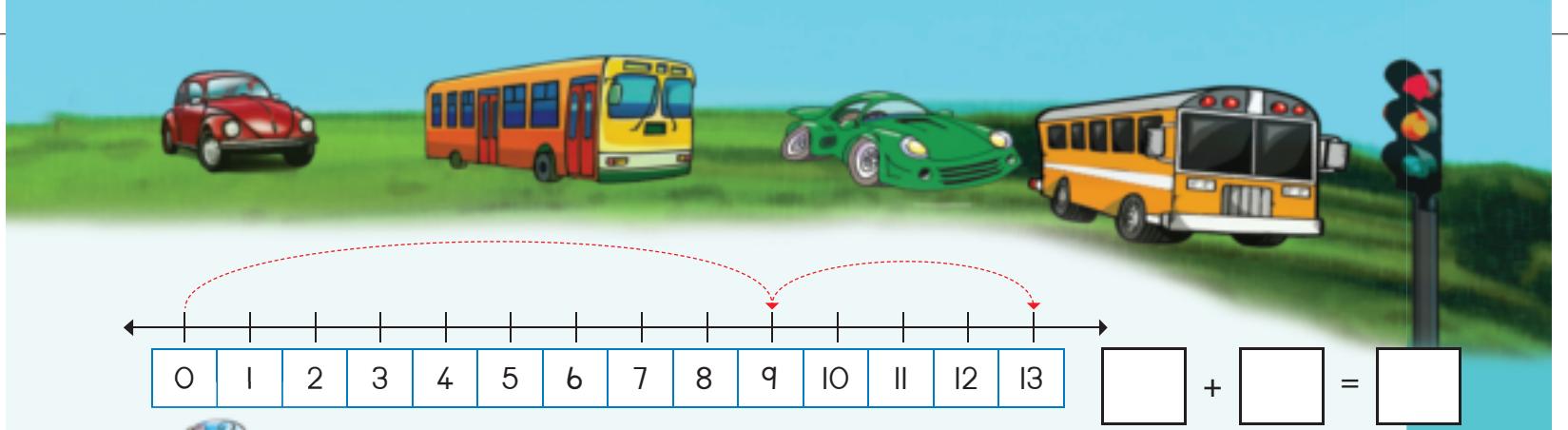
$7 + 5$



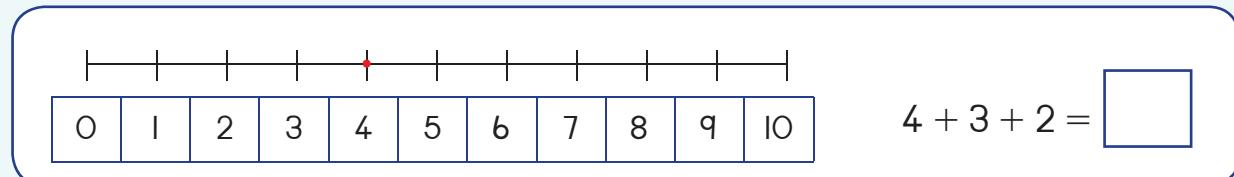
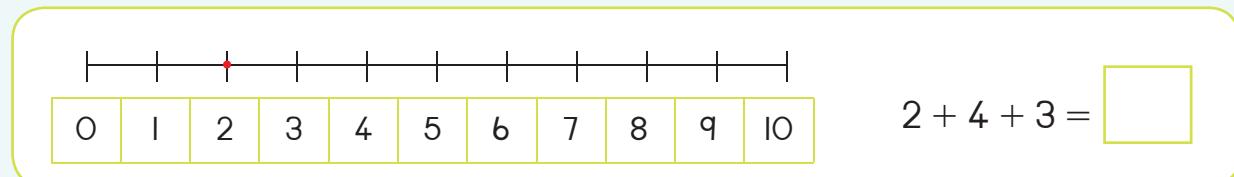
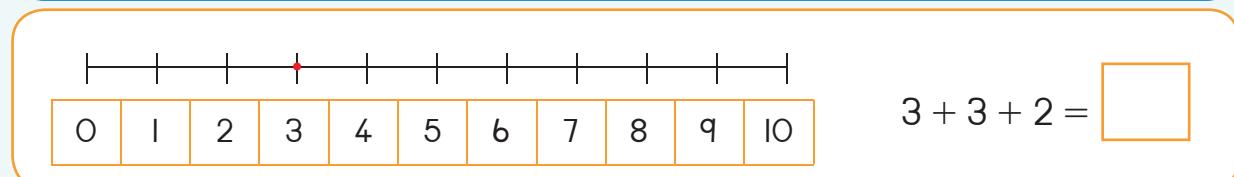
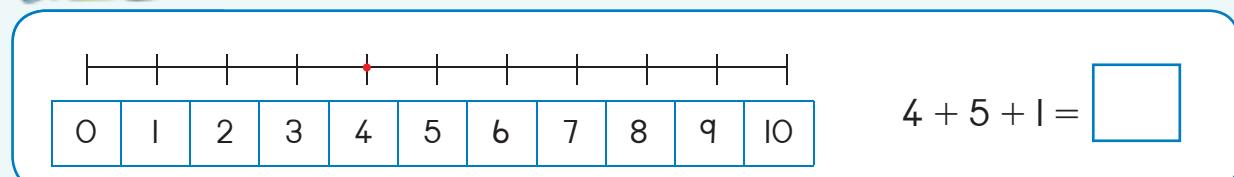
Bhala isiphumo soku:



0 | 2 3 4 5 6 7 8 9 10 11 12



Gqibezela umgca-manani uze ubhale impendulo.



Sombulula ezi zibalo ngokuzoba imifanekiso.

Ndinamapetyu ama-5 aze umhlubo wam abe namapetyu asi-8. Mangaphi amapetyu esinawo edibene?

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

Bendiphathelle utitshala wethu iintyatyambo ezili-9 waze umhlubo wam waza nezi-6. Zingaphi iintyatyambo esize nazo zizonke?

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



72



Ikota 3

Ukudibanisa – ukwakha nokucalula amanani ukuya kufikelela kwi -15

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

8

zisibhozo

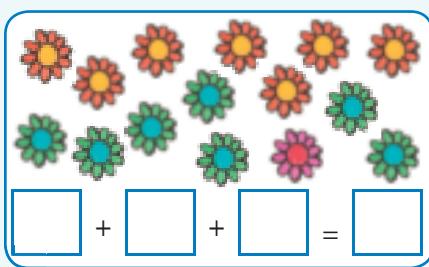
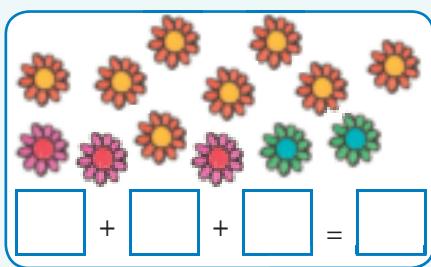
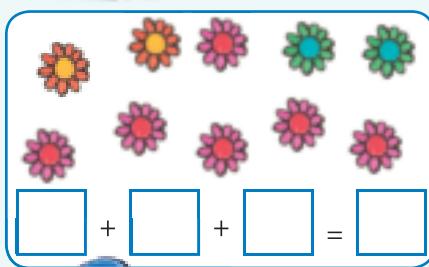
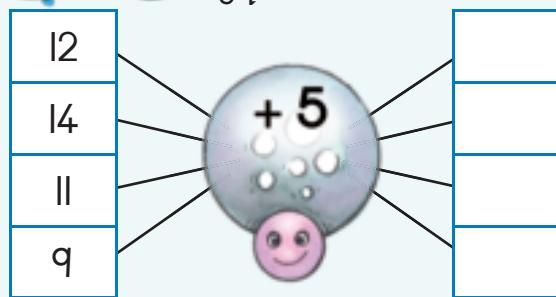


Bhala impendulo.

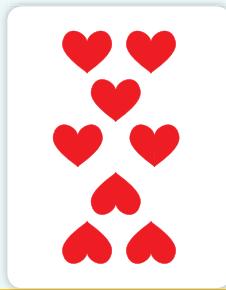
$0 + 2 =$		$2 + 2 =$		$4 + 2 =$		$6 + 2 =$		$8 + 2 =$	
$10 + 2 =$		$12 + 2 =$		$14 + 2 =$		$16 + 2 =$		$18 + 2 =$	



Bhala isivakalisi - manani usebenzise iintyatyambo ezinemibala eyahlukeneyo.

Nceda isigcawu
sigqibezele izibalo.

Zingaphi iintliziyo?



Yenza esakho isibalo.

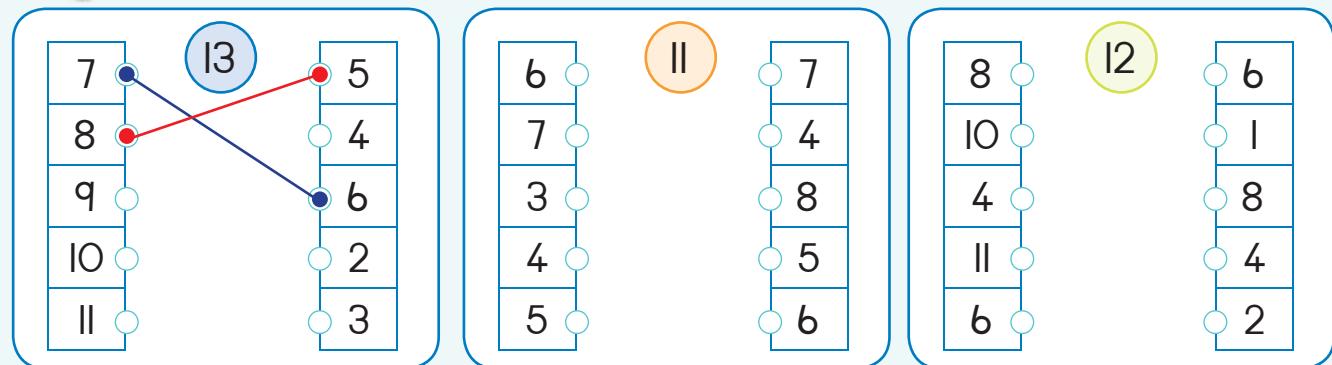
$$[] + [] = []$$



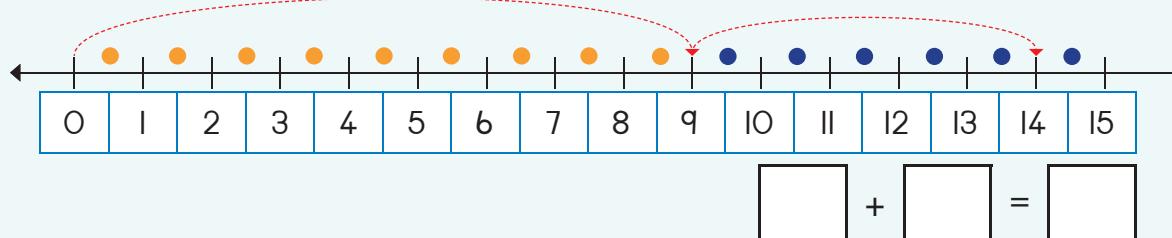
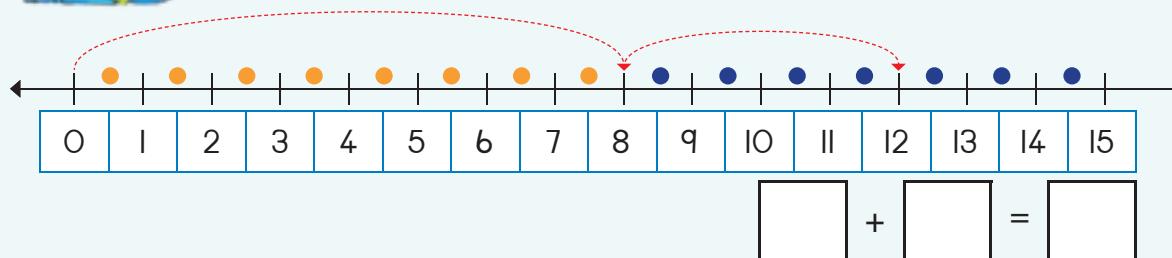
16 0 1 2 3 4 5 6 7 8 9 10



Tshatisha izibini zamanani ukuze wenze la manani alandelayo.



Bhala isivakalisi - manani soku:



Uhlaziyo:

Uhlaziyo: Fakela umbala kwimpendulo echanekileyo.

imbonakalo yangaphambili	imbonakalo yangaphambili	imbonakalo yangaphambili	imbonakalo yangaphambili
imbonakalo yangasemva	imbonakalo yangasemva	imbonakalo yangasemva	imbonakalo yangasemva
imbonakalo yasecaleni	imbonakalo yasecaleni	imbonakalo yasecaleni	imbonakalo yasecaleni



11 12 13 14 15 16 17 18 19 20



73



Ikota 3

Ukudibanisa nokuthabatha – ukwakha nokucalula

Uhlaziyo:

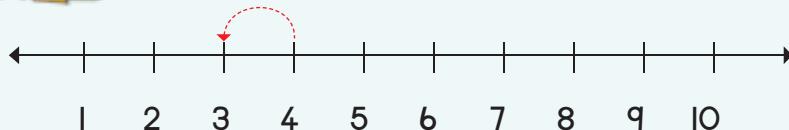
Ziqhelise ukubhala inani ngamagama.

9

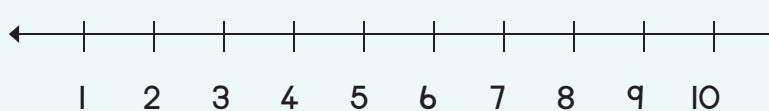
zilithoba



Bhala impendulo.



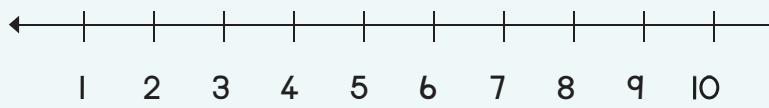
$$4 - 1 =$$



$$5 - 3 =$$



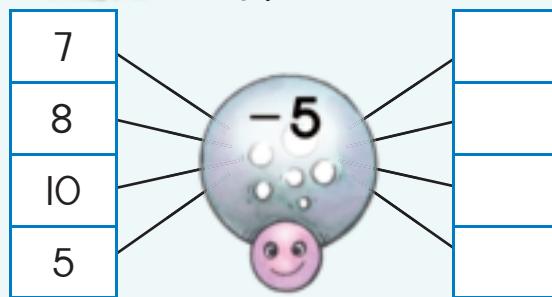
$$4 - 2 =$$



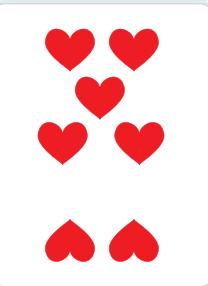
$$5 - 2 =$$



Nceda isigcawu sigqibezele izibalo.



Zingaphi iintlizayo?

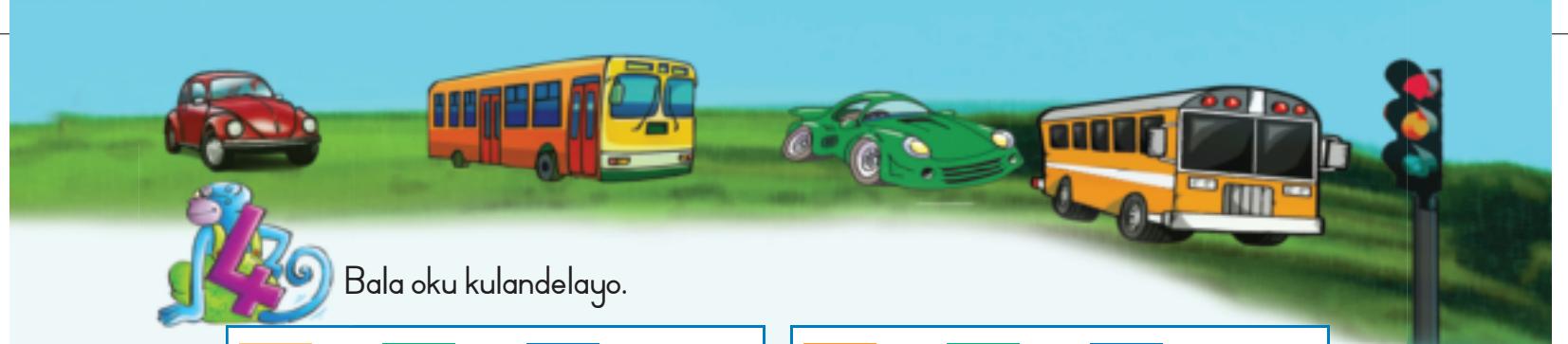


Yenza esakho isibalo.

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



0 1 2 3 4 5 6 7 8 9 10



Bala oku kulandelayo.

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

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

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

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

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

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

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

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

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

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

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

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



Bhala iimpendulo uze ufakele imibala uzobe.

$$8 + 6 = \boxed{}$$

Oku singakubonisa ngale ndlela:

$$(8 + 2) + 4 = \boxed{} \rightarrow 10 + 4 = \boxed{}$$

$$15 - 7 = \boxed{}$$

Oku singakubonisa ngale ndlela:

$$(15 - 5) - 2 = \boxed{} \rightarrow 10 - 2 = \boxed{}$$

$$9 + 4 = \boxed{}$$

Oku singakubonisa ngale ndlela:

$$(9 + 1) + 3 = \boxed{} \rightarrow \boxed{} \boxed{}$$

$$14 - 5 = \boxed{}$$

Oku singakubonisa ngale ndlela:

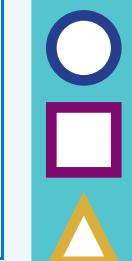
$$(\quad - \quad) - 1 = \boxed{} \rightarrow 10 - 1 = \boxed{}$$

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

10

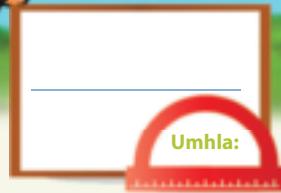
lishumi



74

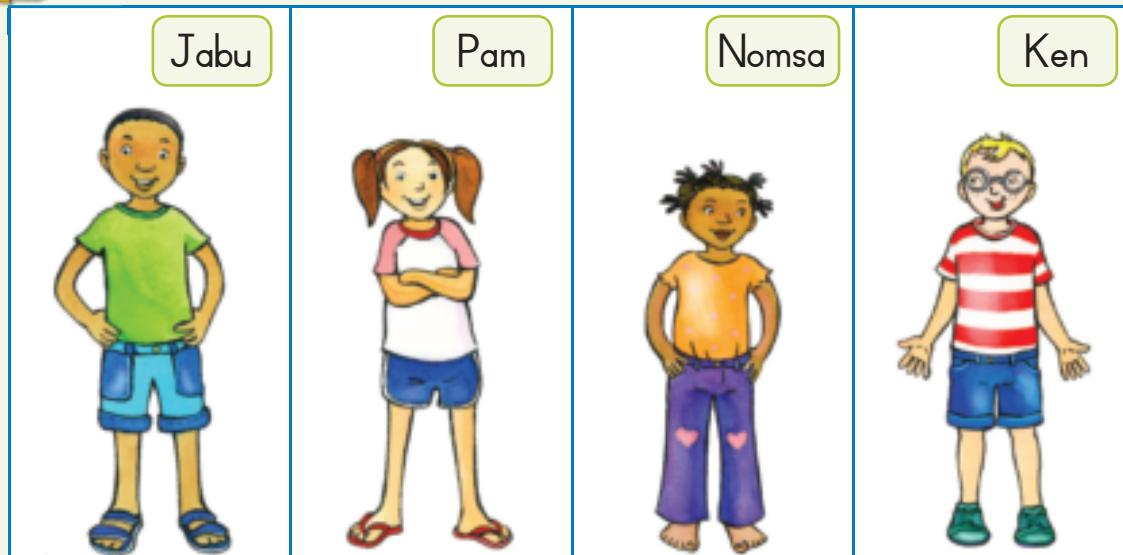


Ikota 3



Ubude

Jonga umfanekiso uze uphendule imibuzo.



Ngubani oyena mde?

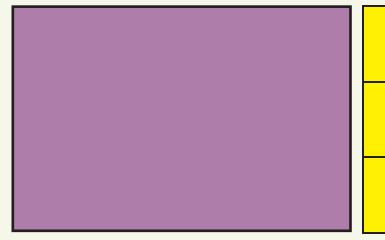
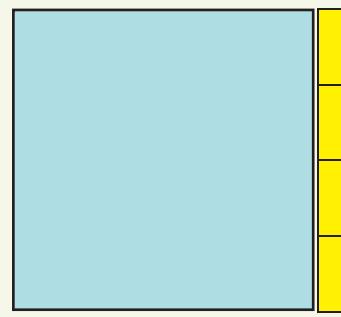
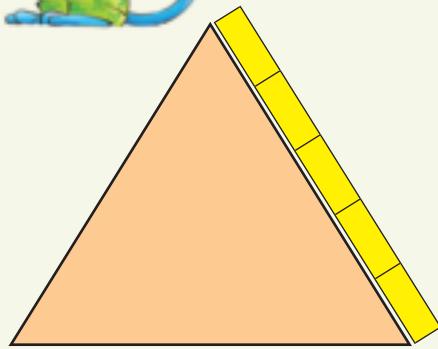
Ngubani eyona nkwenkwe imfutshane?

Ngubani oyena mfutshane?

Ngubani eyona ntombazana inde?



Amacala ezi milo made kangangeebloko ezingaphi?



20

0

1

2

3

4

5

6

7

8

9

10



Xela ubude nobubanzi betafile ngokweebloko neepenisile.



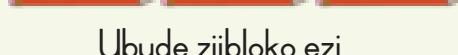
Ububanzi ziibloko ezi _____.



Ubude ziibloko ezi _____.



Ububanzi ziibloko ezi _____.



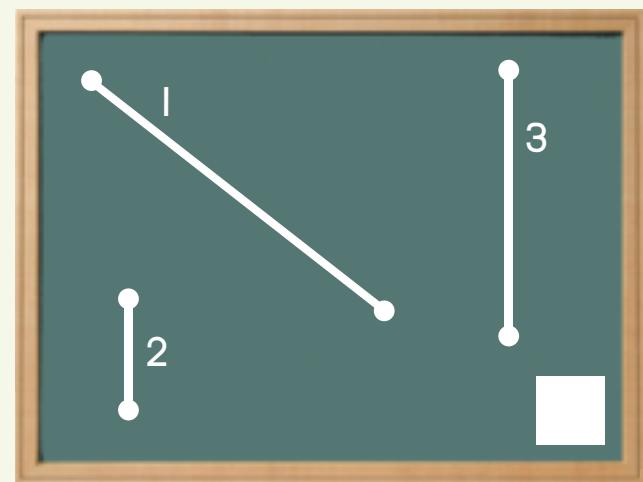
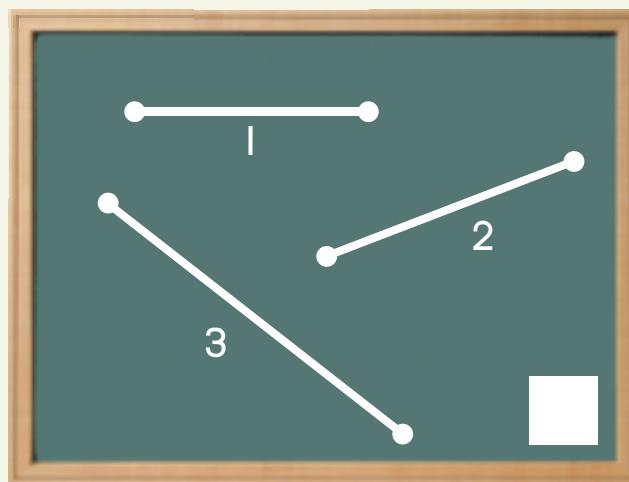
Ubude ziibloko ezi _____.



Ngowuphi umgca omfuthane
kakhulu?

Ngumgca 1, 2 okanye 3?

Ngowuphi umgca omde kakhulu?
Ngumgca 1, 2 okanye 3?



Teacher:
Sign:
Date:

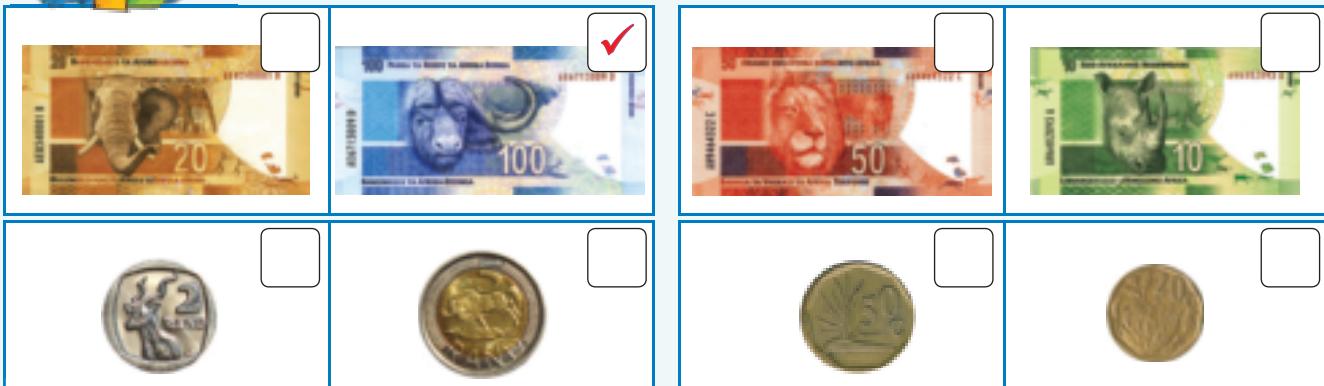
75



Ikota 3



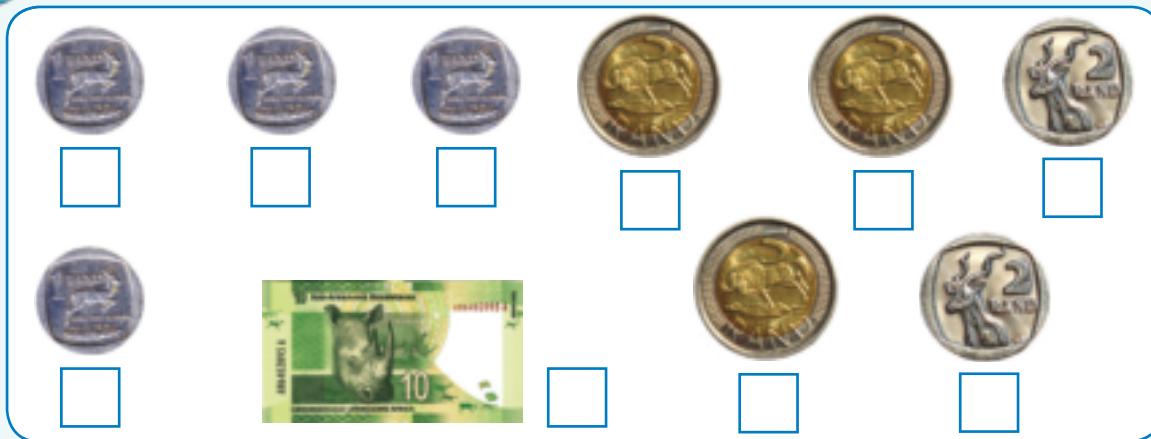
Phawula esona sixa siphezulu kumqolo ngamnye.



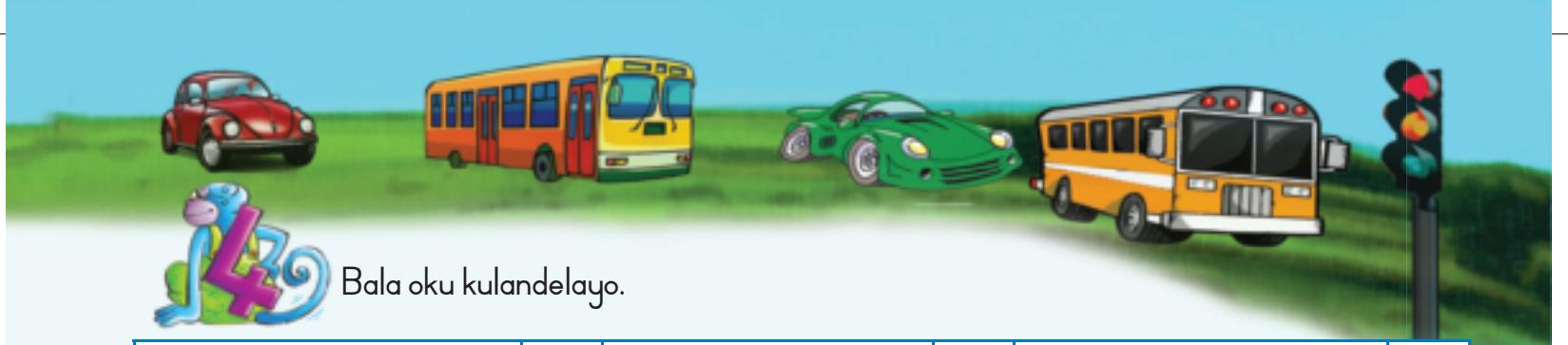
Phawula iingqekembe zemali eziza kukunika ii -RIO.



Phawula iingqekembe zemali eziza kukunika ama-R20.



0 1 2 3 4 5 6 7 8 9 10



Bala oku kulandelayo.

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



Sombulula ezi zibalo:

Ndinengqekembe yee -R2 neyee -R5.
Umhlobo wam yena uneengqekembe
zee -R2 ezintathu.
Ngubani oneyona mali ininzi?

Ndinengqekembe yee -R5 neye -RI.
Umhlobo wam yena uneengqekembe
zee -R5 ezintathu.
Ngubani oneyona mali ininzi?



Ndinee -RI5:

Ndihlawula

Itshintshi

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 oku kulandelayo:

Ndinee -RI5. Ndihlawule ipakethe yeetshiphusi
ngee -R6. Ndishiyekelwe yimalini?



Yenze ibe nganeno ngee -R2.

RII		R4	
RI2		R6	
RIO		R8	



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Ikota 3

Imali netshintshi

Zoba iingqekembe zemali ezenza oku:

RI1	
RI2	
RI3	
RI4	



Phawula uze
ubhale impendulo
echanekileyo.

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



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



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



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



Bala oku kulandelayo:

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

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

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

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

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

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



0

1

2

3

4

5

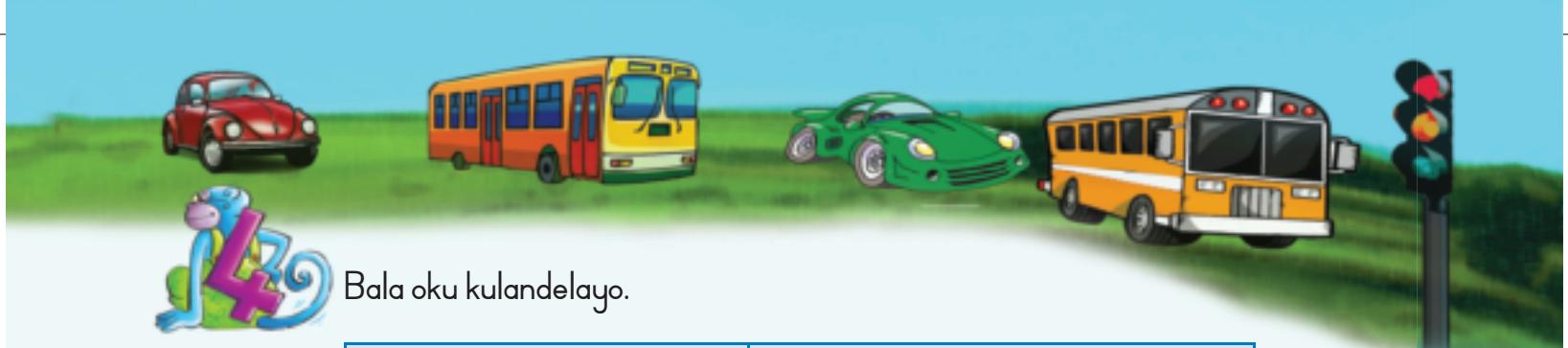
6

7

8

9

10



Bala oku kulandelayo.

Ndinee -RI5. Ndithenge nge -	Ndishiyekelewe yimalini?
R2 okanye R4 =	R9
R8 okanye R4 =	
R12 okanye R2 =	
R5 okanye R5 =	
R8 okanye R7 =	
R10 okanye R2 =	
R8 okanye R2 =	
R6 okanye R2 =	
R4 okanye R2 =	
R2 okanye R2 =	
R9 okanye R6 =	
R10 okanye R2 =	



Ndinee -RI5. Ndithenge ipakethe yeelekese ngee -RII.

Zoba umfanekiso ubonise ukuba ushiyekelwe yimalini.





→



Teacher: _____

Sign: _____

Date: _____



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Ikota 3



Imali: Ukudibanisa nokuthabatha

Bala oku kulandelayo:

$RIO + R2 =$	<input type="text"/>
$RIO + R4 =$	<input type="text"/>
$R9 + R5 =$	<input type="text"/>
$RI2 + R5 =$	<input type="text"/>

$RIO + R5 =$	<input type="text"/>
$RIO + R7 =$	<input type="text"/>
$R8 + R4 =$	<input type="text"/>
$RI4 + R2 =$	<input type="text"/>

$RIO + RI =$	<input type="text"/>
$RIO + R6 =$	<input type="text"/>
$R7 + R6 =$	<input type="text"/>
$RII + R6 =$	<input type="text"/>



Bala oku kulandelayo:

$RIO - R7 =$	<input type="text"/>
$RI5 - RI =$	<input type="text"/>
$RI2 - R2 =$	<input type="text"/>
$RI5 - R6 =$	<input type="text"/>

$RIO - R2 =$	<input type="text"/>
$RI5 - RI5 =$	<input type="text"/>
$RI4 - R7 =$	<input type="text"/>
$RI2 - R9 =$	<input type="text"/>

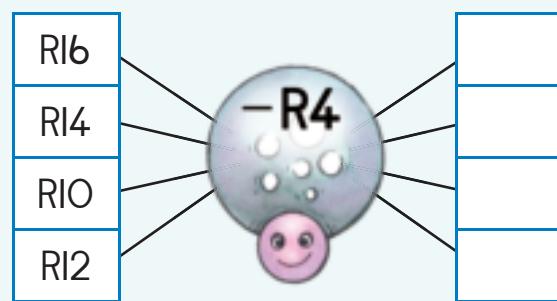
$RIO - R5 =$	<input type="text"/>
$RI5 - R2 =$	<input type="text"/>
$RI6 - R6 =$	<input type="text"/>
$RI4 - R4 =$	<input type="text"/>



Nceda isigcawu sigqibezele
zonke izibalo.



Yenze ibe ngaphantsi ngee -R2.



$$R4 - R2 = \boxed{}$$

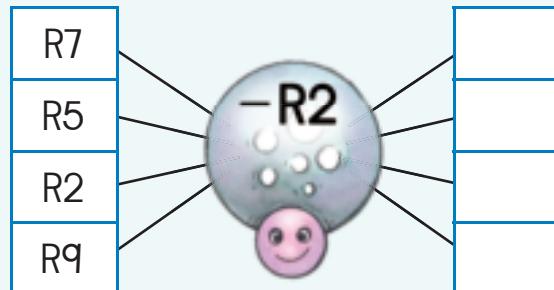


$$R7 - R2 = \boxed{}$$





Nceda isigcawu senze zonke izibalo zokuthabatha.



Sombulula ezi zibalo zilandelayo.

Ubunee -R12. Umama wakho ukuphe
ii -R5. Unamalini ngoku iyonke?

Unee -R19. Uthenge iilekese ngee -R8.
Unamalini eshiyekileyo?



Ndigcine malini?



Bonisa isibalo kumgca - manani uze ubhale impendulo.



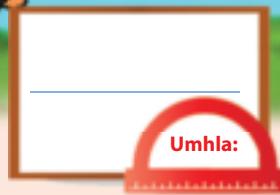
Teacher: _____
Sign: _____
Date: _____



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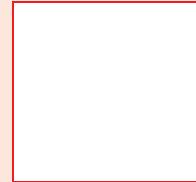
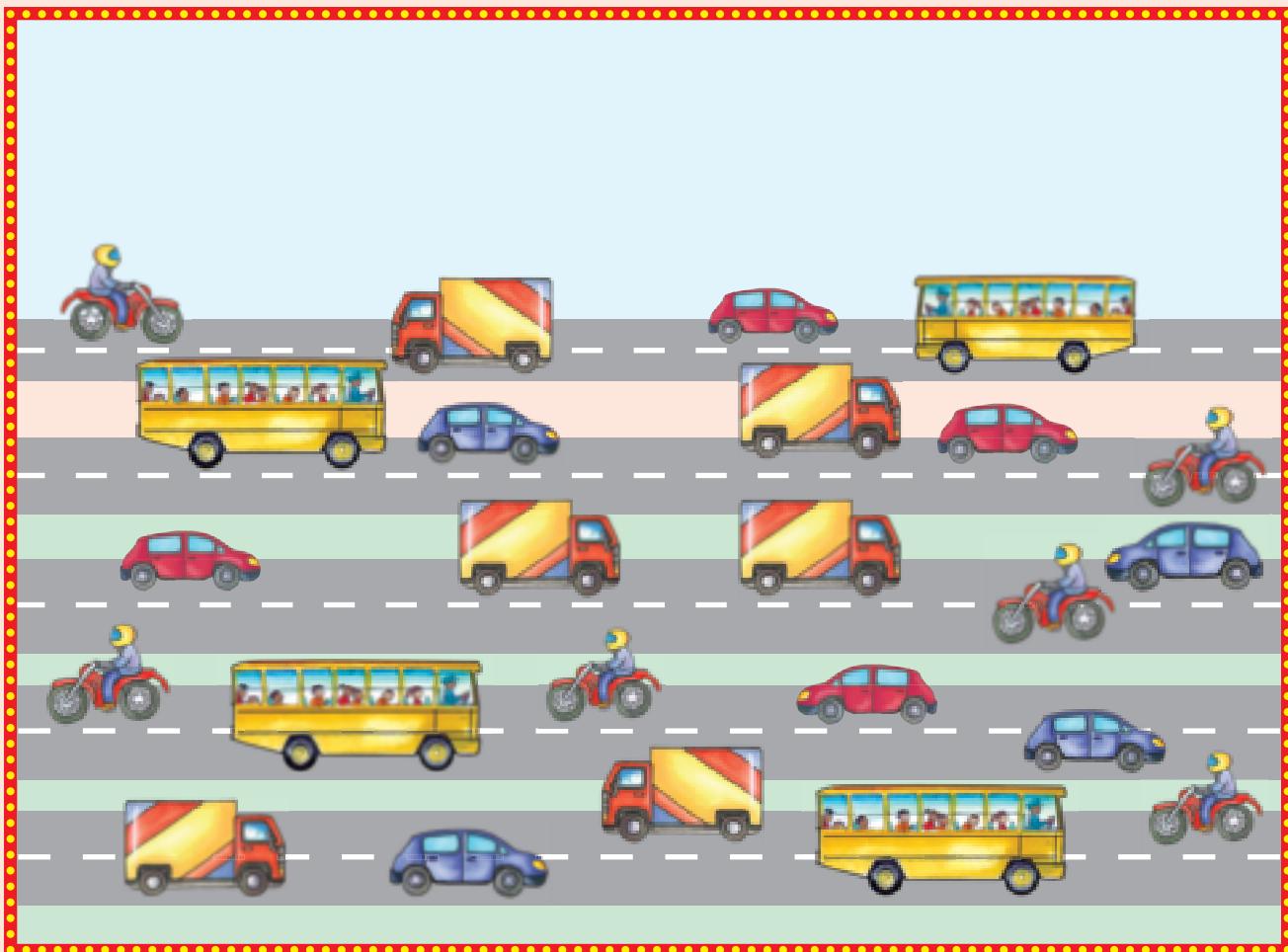


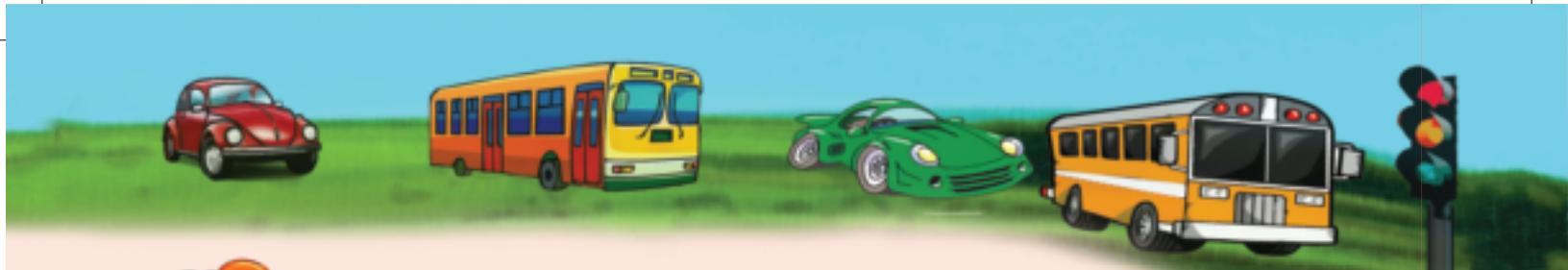
Ikota 3



Inkcukacha

Bala ukuba zingaphi izithuthi ozibonayo kuhlobo ngalunye.





Bala iimilo uze ufakele imibala kwitshathi engasezantsi ubonise ukuba zingaphi ezikhoyo kuhlobo ngalunye.
Wakugqiba phendula imibuzo.



5						
4						
3						
2						
1						
	▲	●	■	◆	★	○

Ezona zininzi _____.

Ezona zimbalwa _____.



Teacher:
Sign:
Date:



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Ikota 3

Iinkcukacha nexesha

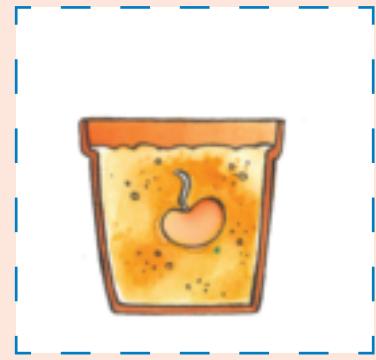
Ncokola ngale mifanekiso uze uyibeke ngokulandelelana kwayo kakuhle.



1



2



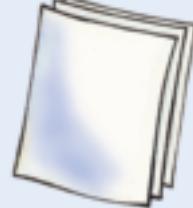
3



4



Sebenzisa amakhadi okuhlela akuMsiko I ugqibezele le grafu yemifanekiso.



--	--	--	--



Teacher:
Sign:
Date:



80



Ikota 3

Amaqela ezihlanu ukuya kufikelela kwi-15

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

5

zintlanu



Jonga umfanekiso uze uphendule umbuzo.



Mangaphi amaqela ezi-5 onokuwenza?

Jonga umfanekiso.

Singakubhala ngolu hlobo oku:

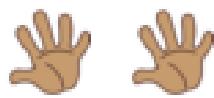
Zoba apha owakho umfanekiso.



Iqela elinye lesi-5 sisi-5



Bala iminwe uze ubhale impendulo.



$$5 + 5 =$$



$$5 + 5 + 5 =$$



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

Amaqela ama-2
ezihlanu li-10

32

0 1 2 3 4 5 6 7 8 9 10

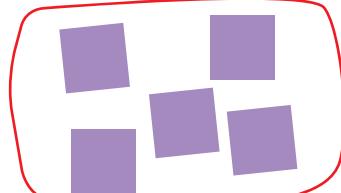


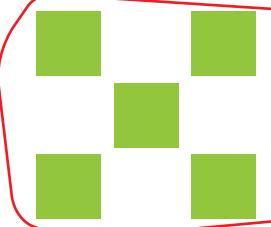
Biyela ngezangqa ezi zinto
ukuze wenze oku:



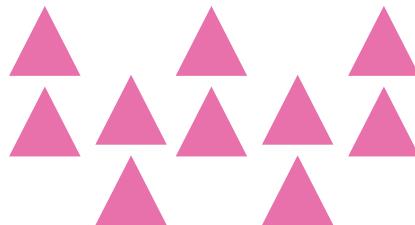
Bhala izivakalisi - manani
zoku:

Iqela eli - I lesi - 5



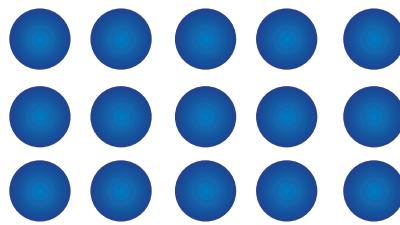


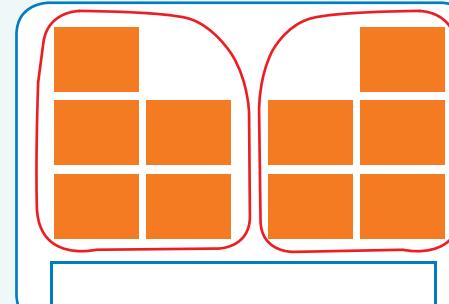
Amaqela ama - 2 ezi - 5





Amaqela ama - 3 ezi - 5







Mangaphi amaqela ezhilanu ongawenzayo?

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



81



Ikota 3

Izihlanu: ukudibana okuphindiweyo ukuya kwi-15

Uhlaziyo:

Uhlaziyo: Fakela amanani ashiiyiweyo.



Zingaphi iinzwane okanye iminwe ekhoyo?

Bhala isivakalisi - manani.



Iqela leebhana ezintlanu

Zoba:



Zoba iimilo.

Amaqela amabini eentyatyambo
ezintlanu lilinye

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

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



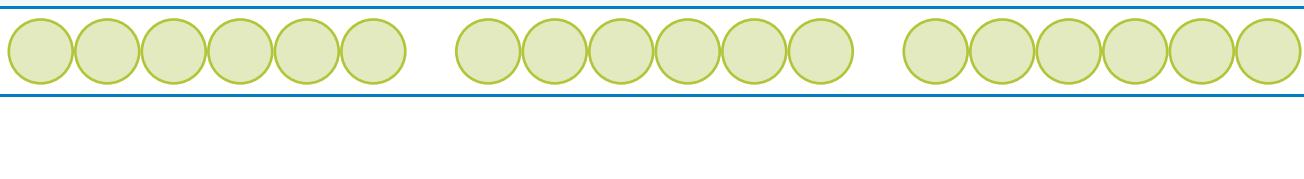
--	--	--	--	--	--	--	--	--	--



Biyela uze ubale ukuba mangaphi amaqela ezhilanu onokuwenza kwikhadi ngalinye.



Bhala isivakalisi - manani:



Sebenzisa imibala eyahlukeneyo ubonise amanani oza kuwasebenzisa ekwenzeni amaqela ezhilanu.

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5					



Mangaphi amaqela ezhilanu onokuwenza?

I	ne	I4	ziza kwenza amaqela	
I3	ne	2	ziza kwenza amaqela	
8	ne	2	ziza kwenza amaqela	
7	ne	8	ziza kwenza amaqela	
9	ne	2	ziza kwenza amaqela	



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Date:



Ikota 3



Fakela amanani ashiiyiweyo.

I		3		5		7	8	9	
II	I2								



Yenza amaqela ezihlalu. Ubhantom ngamnye kufuneka abe neqela lamachokoza amahlanu kwiphiko ngalinye.
Zoba amachokoza angekhoyo.

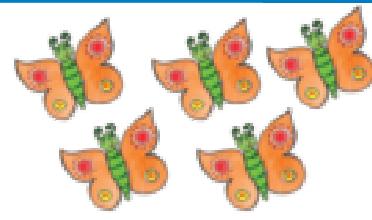
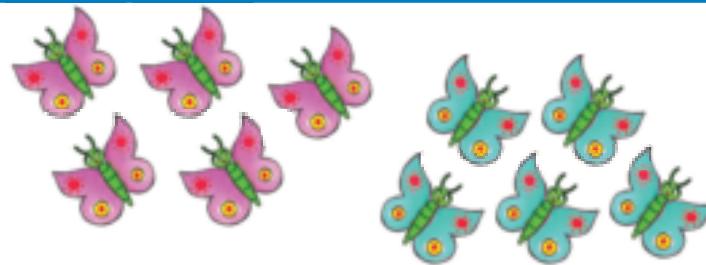
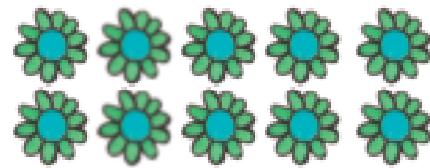


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Bhala isivakalisi - manani.



Bala.

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

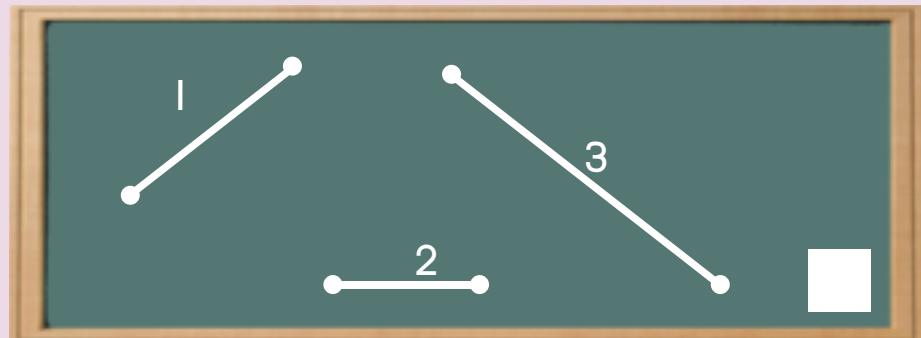
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\quad}$$

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

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

Uhlaziyo:

Uhlaziyo: Ngowuphi owona mgca umde?



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Sign:
Date:



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Ikota 3

Iipatheni zamanani zezihlanu ukuya kutsho kuma - 50

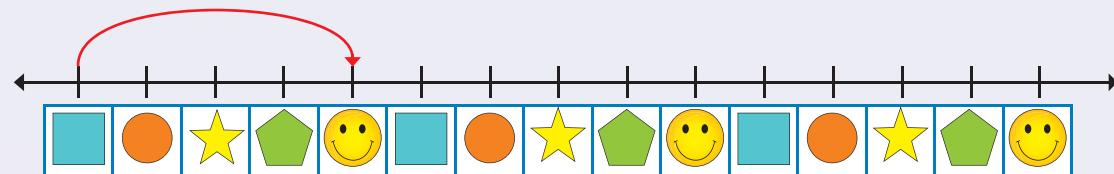


Gqibezela iipatheni zezihlanu ngokufakela imibala kula manani.

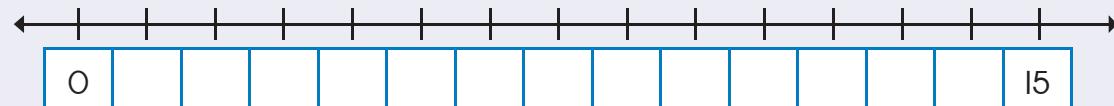
I	2	3	4	5	6	7	8	9	10
II	12	13	14	15	16	17	18	19	20
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50



Zoba izazinge ubonise amaqela ezihlanu.

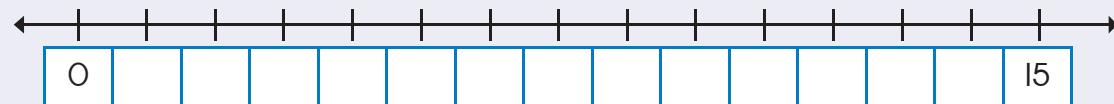


Bhala amanani ashayiweyo uze wenze izazinge ubonise amaqela ezihlanu.



Gqibezela umgca - manani. Zoba izazinge ubonise amaqela ezihlanu.

Kukho amaqela ezihlanu a .

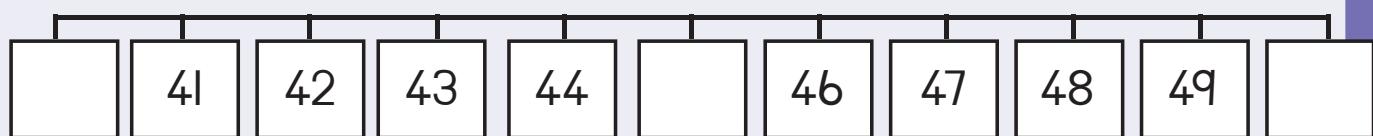
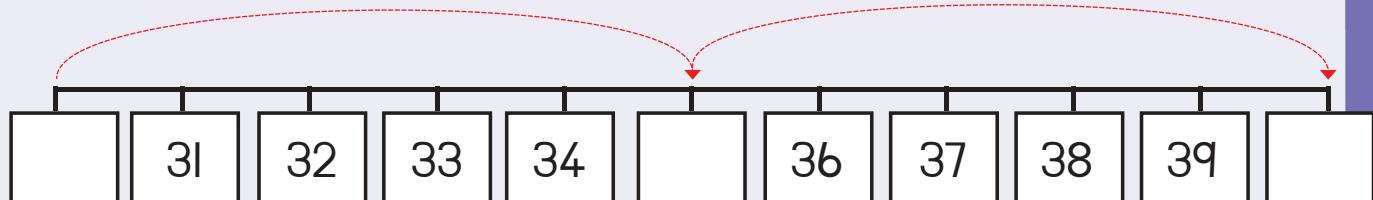


38

0 | 2 3 4 5 6 7 8 9 10

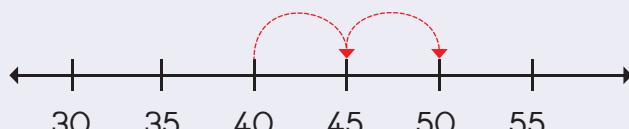


Sika amanani ashiiyiweyo kuMsiko 2 uze uwafake
kumgca-manani.



Zoba izazinge ubonise oku:

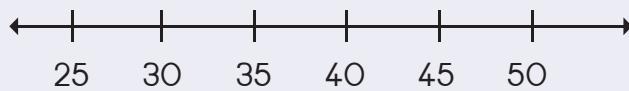
40, 45, 50



10, 15, 20



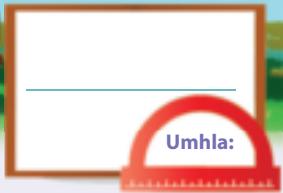
25, 30, 35



11 12 13 14 15 16 17 18 19 20



84



Iipatheni zamanani zezihlanu ukuya kutsho kuma -80

Ikota 3



Mangaphi amaqela ezihlanu owabonayo emfanekisweni?



Gqibezela le mifanekiso ubonis amaqela ezihlanu.



40

0

2

3

4

5

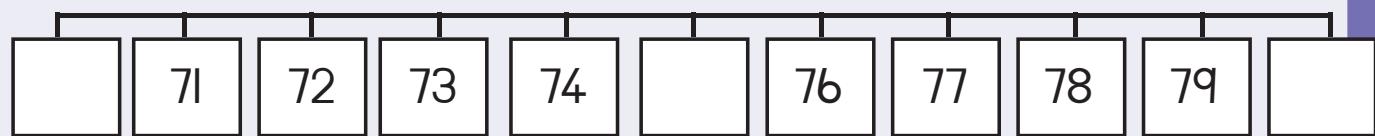
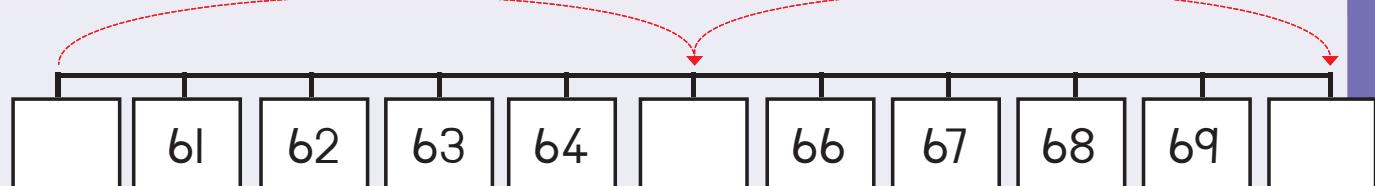
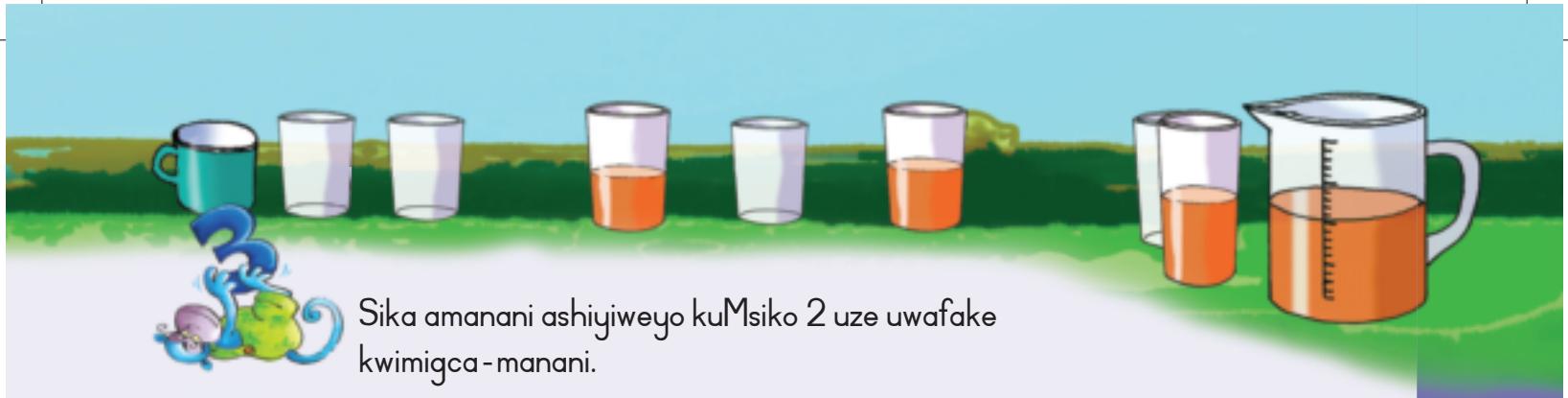
6

7

8

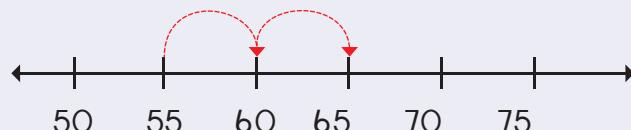
9

10



Zoba izazinge ubonise oku kulandelayo:

55, 60, 65



65, 70, 75



70, 75, 80



11 12 13 14 15 16 17 18 19 20



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Date:



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Ikota 3

Iziphindwa kabini



Phinda kabini ezi zinto uze ubhale impendulo.



u-1 ophindwe kabini



Ezi-4 eziphindwe kabini

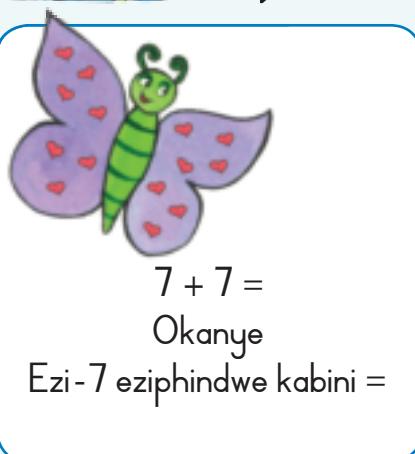


Ezi-5 eziphindwe kabini



Bala iimilo ezikwiphiko ngalinye lebhabhathane.

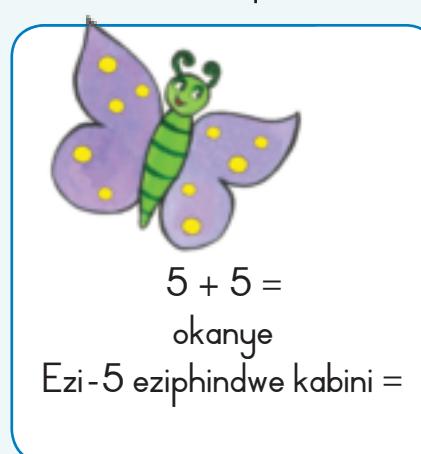
Gqibezela izivakalisi - manani zokuphindwa kabini.



$$7 + 7 =$$

Okanye

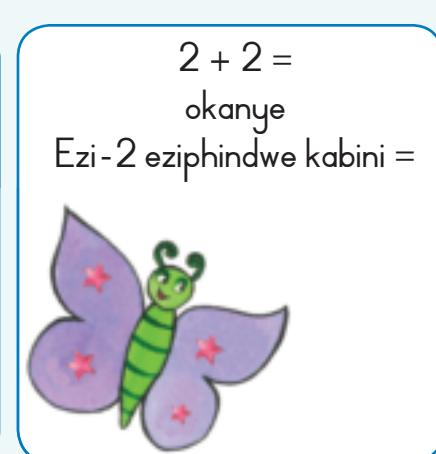
Ezi-7 eziphindwe kabini =



$$5 + 5 =$$

okanye

Ezi-5 eziphindwe kabini =



$$2 + 2 =$$

okanye

Ezi-2 eziphindwe kabini =

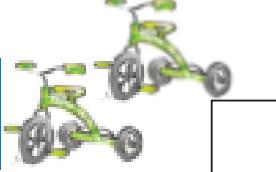


Sithi ezi-6 eziphindwe kabini zenza i-12. Iza kuba ngubani ke isiqingatha se-12? _____

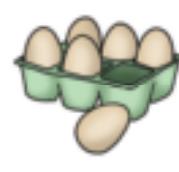
Mangaphi amavili owabonayo?



Mangaphi amavili owabonayo ngoku?



Mangaphi amaqanda asetryjni?



Mangaphi amaqanda akhoyo ngoku?



Bala amachokoza uze uwaphinde kabini.



Phinda kabini amanani.

1	phinda kabini →	2
2	phinda kabini →	
3	phinda kabini →	
4	phinda kabini →	
5	phinda kabini →	

4	phinda kabini →	8
5	phinda kabini →	
6	phinda kabini →	
3	phinda kabini →	
2	phinda kabini →	
10	phinda kabini →	



Gqibezela oku kulandelayo:

Zingaphi iintsuku evēkini?

C	Mv	Lb	Lt	Ln	Lhl	Mgq

Zingaphi iintsuku kwiveki ezimbini?

C	Mv	Lb	Lt	Ln	Lhl	Mgq	C	Mv	Lb	Lt	Ln	Lhl	Mgq

Sithi ezi-7 eziphindwe kabini zenza i-14.

Iza kuba ngubani ke isiqingatha se-14?

Zingaphi iinyawo ozibonayo?



Zingaphi iinyawo ozibonayo ngoku?



Sithi ezi-2 eziphindwe kabini zenza-4.

Iza kuba yintoni isiqingatha sesi-4?



Gqibezela:

$2 + 2 + 1 =$	5	okanye	Phinda kabini $2 + 1 = 5$
$4 + 4 + 1 =$		okanye	
$7 + 7 + 1 =$		okanye	

11

12

13

14

15

16

17

18

19

20



43

86

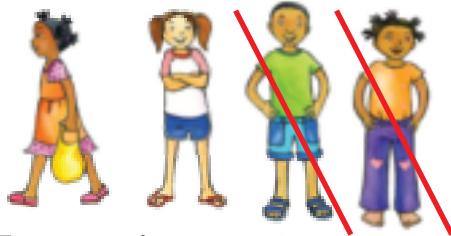


Ikota 3

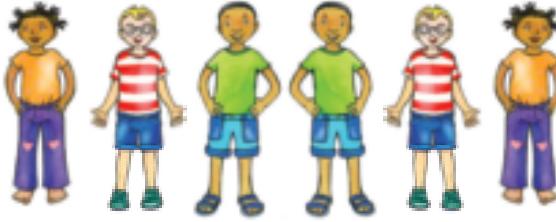
Iziqingatha



Hlaba isiqingatha sabantwana uze ubhale impendulo.



Isiqingatha sezi - 4 sisi _____



Isiqingatha sezi - 6 sisi _____



Isiqingatha sezi - 2 ngu _____



Isiqingatha sezisi - 8 sisi _____



Hlaba isiqingatha uze ubhale impendulo.



Isiqingatha sezi - 2 ngu =



Isiqingatha
sesi - 8 sisi - =



Isiqingatha sezi - 4 sisi - =



Isiqingatha sezi - 6 sisi - =



Isiqingatha
se - 10 sisi - =

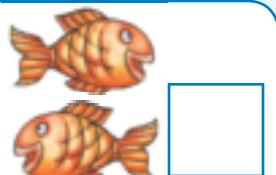


Zingaphi
iintlanzi
ezikhoya?





Sithini/Ngubani
isiqingatha
seentlanzi?





5

Bala amachokoza uze uwahlule kubini.

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



Yahlula kubini
amanani.



4	yahlula kubini →	2
8	yahlula kubini →	
6	yahlula kubini →	
10	yahlula kubini →	
12	yahlula kubini →	
14	yahlula kubini →	



Mingaphi imibungu ekhoyo?



Isiqingatha semibungu:



Nika impendulo:

Mingaphi imilenze ekhoyo?



Mingaphi imilenze ekhoyo ngoku?



Sithi isiqingatha sesi - 8 sisi



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Sign:
Date:



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Ikota 3

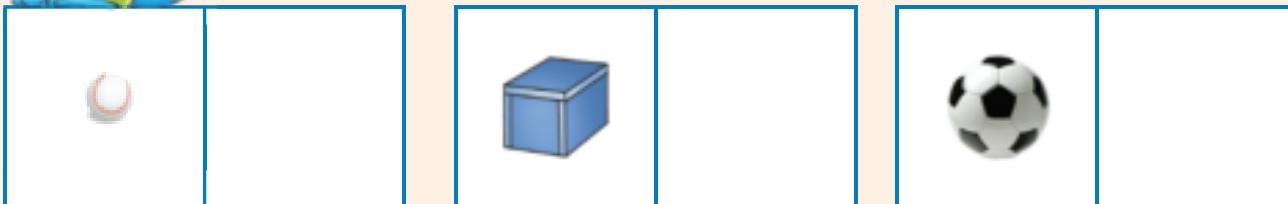
Izinto ezinemilinganiselo emi-3 (3D)



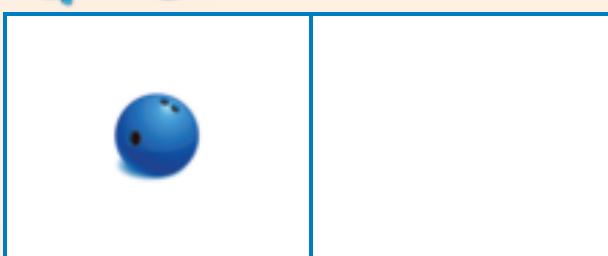
Phawula eyona incinane.



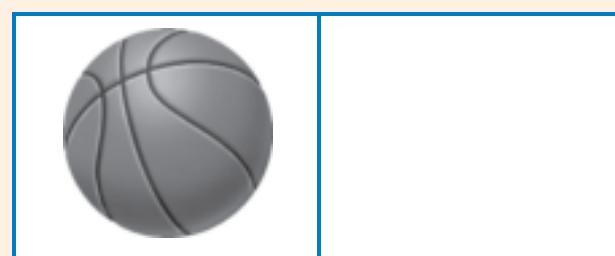
Zoba enkudlwana kwicala langasekunene lomfanekiso ngamnye.



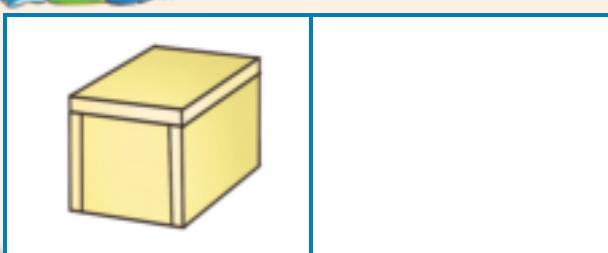
Zoba ibhola enkudlwana kunebhola ezuba.



Zoba ibhola encinane kunebhola engwevu.



Zoba ibhokisi encinane kunebhokisi emthubi.



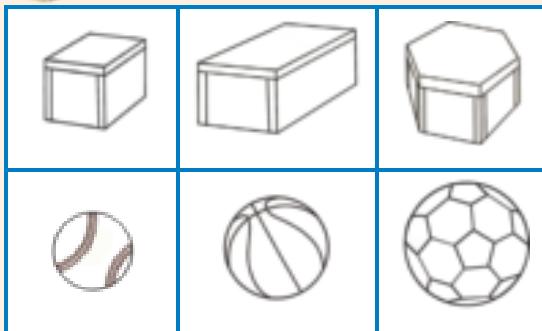
Zoba ibhokisi enkudlwana kunebhokisi eluhlaza.



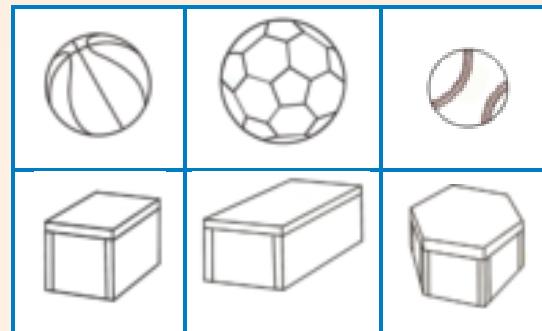


5

Faka umbala ozuba kweyona
bhokisi incinane uze ufake omthubi
kweyona bhola incinane.



Faka umbala opinki kweyona
bhokisi inkulu uze ufake obomvu
kweyona bhola inkulu.



Ungakwazi ukwakha
eyona ncochoyi
iphezulu ngezi zinto?



Faka umbala ku-ewe
okanye ku-hayi

ewe hayi

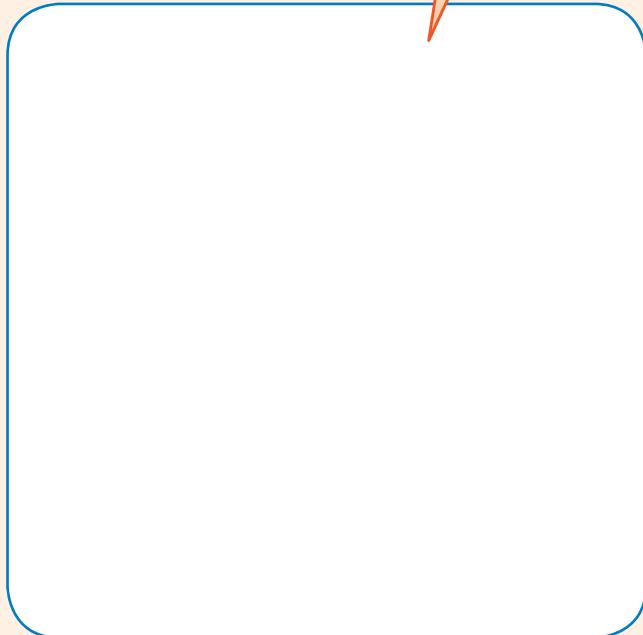
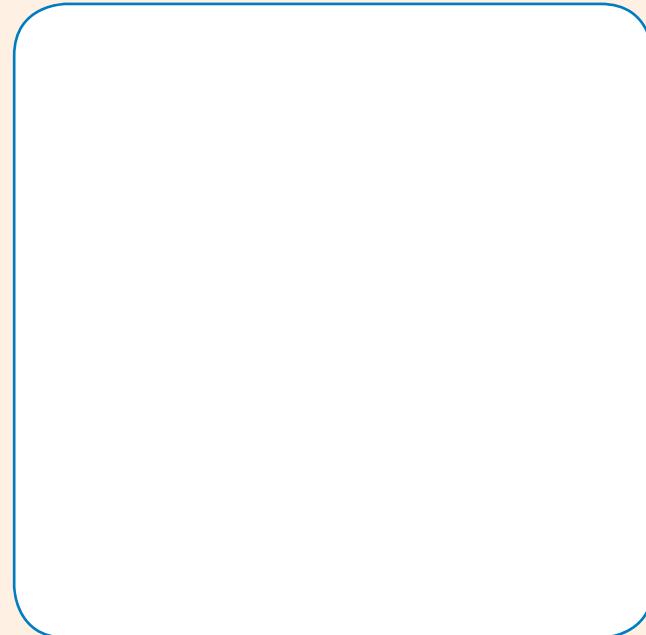
ewe hayi

ewe hayi



Sika imifanekiso kwimagazini okanye kwiphephandaba
uze ujincamathelese ukuze uzenzele iincochoyi zakho
ezimbini.

Khumbula ukuba ezi
ncochoyi kufuneka
zingawi.



Izinto ezinemilinganiselo emi-3 (3D)

– ezitshebelezayo neziqengqelekayo



Ingaba ezi zinto ziyaqengqeleka okanye ziyatyibilika?
Faka umbala kwimpendulo echanekileyo.



iyaqengqeleka

iyatyibilika



iyaqengqeleka

iyatyibilika



iyaqengqeleka

iyatyibilika



iyaqengqeleka

iyatyibilika



Ingaba kungenzeka oku?

Faka umbala kwimpendulo echanekileyo.



ewe

hayi



ewe

hayi



ewe

hayi





3

Hlela ezi zinto zilandelayo ngokuthi uzizobe kwibloko echanekileyo.

	Iibhola	Iibhokisi
--	---------	-----------

4

Hlela ezi zinto ngokobukhulu bazo uze uzizobe.

	Iibhola ezincinci	Iibhokisi ezincinci
	Iibhola ezinkulu	Iibhokisi ezinkulu

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Ikota 3

Iipatheni zejometri

Uhlaziyo:

Zoba ezi zinto:

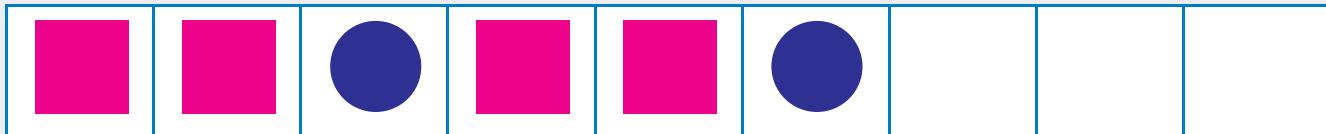
uxande

isikwere

isangqa



Gqibezela ipatheni.

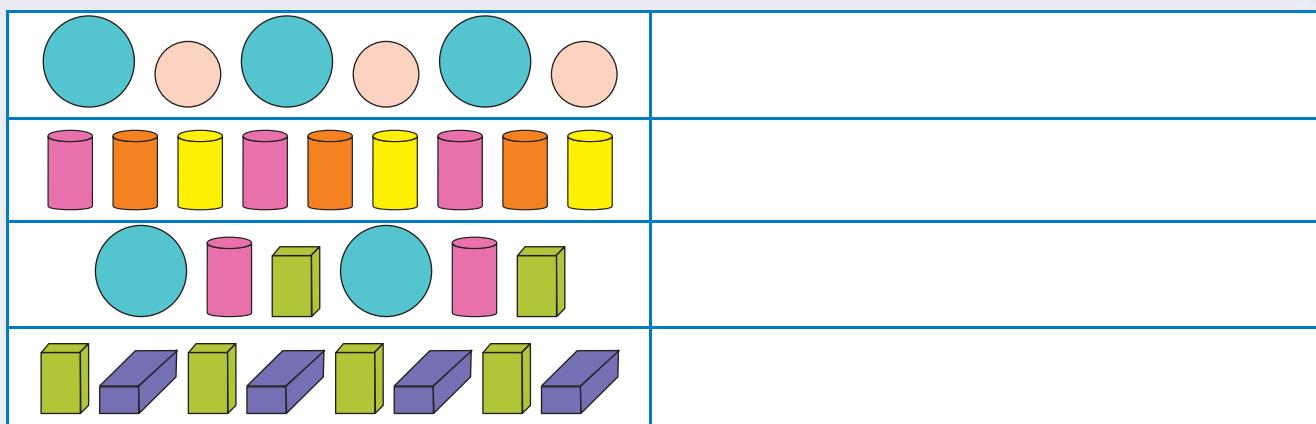


50

0 1 2 3 4 5 6 7 8 9 10



Zoba imifanekiso ukuze uqhubeke nepatheni.



Zoba eyakho ipatheni.



Ncamathelisa imifanekiso wenze eyakho ipatheni.



Gqibezela le patheni.

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

11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



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Ikota 3

Amaqela ezibini ukuya kutsho kwi -15



Bhala eli nani ngamagama.

2

zimbini



Phendula imibuzo.

Bangaphi oonombombiya obabonayo?



Zingaphi izibini zamanqina ozibonayo?

Bhala isivakalisi - manani.



Phendula imibuzo.

Zingaphi iincwadi ezikhoyo?



Ndingenza amaqela ezibini amangaphi?

Bhala isivakalisi - manani.



Bhala inani ngamagama.

4



Bala amaphiko, wakugqiba bhala impendulo yakho.



$$2 + 2 =$$



$$2 + 2 + 2 =$$



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

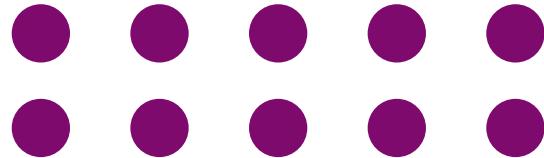


Biyela ngezangqa ukuze wenze:

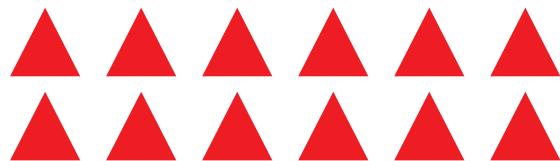
Amaqela ama - 4 ezi - 2



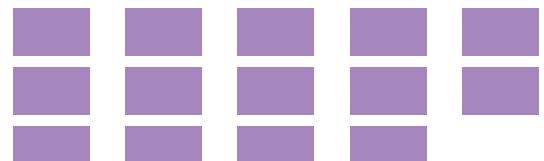
Amaqela ama - 5 ezi - 2



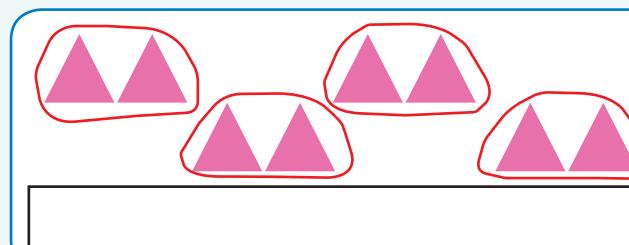
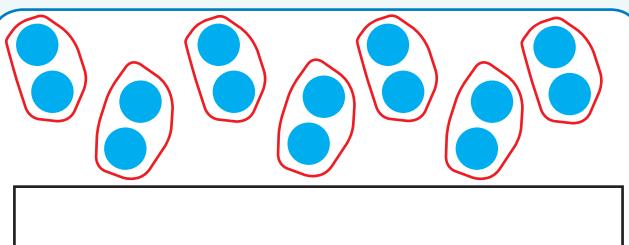
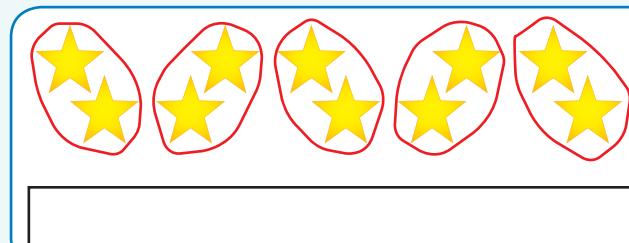
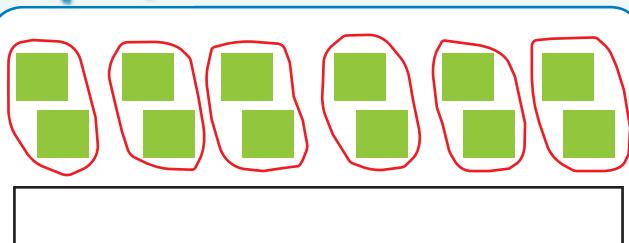
Amaqela ama - 6 ezi - 2



Amaqela asi - 7 ezi - 2



Bhala isivakalisi - manani.



Mangaphi amaqela ezibini onokwuenza?

i-13 ne - l zingenza	amaqela a
i-11 ne - l zingenza	amaqela a
i-9 ne - l zingenza	amaqela a
Ezi - 7 ne - l zingenza	amaqela a

i-12 ne - l zingenza	amaqela a
Ezi - 5 ne - l zingenza	amaqela a
u - l ne - l bangenza	iqela eli
i-10 ne - O zingenza	amaqela a

Teacher:
Sign:
Date:

q1

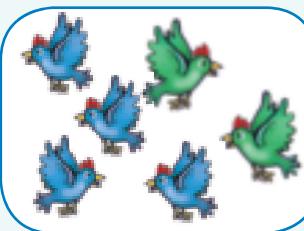
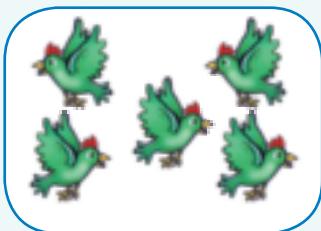


Ikota 3

Ukudibanisa izibini eziphindiweyo ukuya kutsho kwi-15



Mangaphi amanqina akhoyo?



Uwabale njani?



Zoba iimilo ubonise oku kulandelayo:

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



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



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



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





Bhala izivakalisi - manani.

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

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

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

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



Biyela uze ubale inani lamaqela ezibini onokuwenza kwikhadi ngalinye.

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



Gqibezela le patheni yamanani oza kuwasebenzisa ekwenzeni amaqela ezibini.

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5					

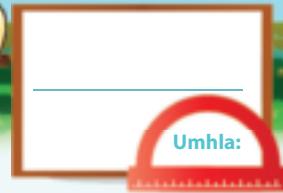
II I2 I3 I4 I5 I6 I7 I8 I9 20



Teacher:
Sign:
Date:



q2



Ikota 3



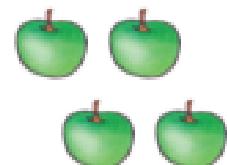
Fakela amanani ashiiyiweyo.

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

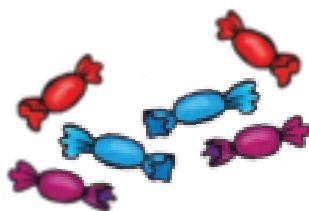


Yenza amaqela ezibini.

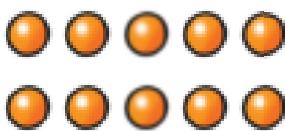
Biyela ngesangqa iqela ngalinye lezibini.



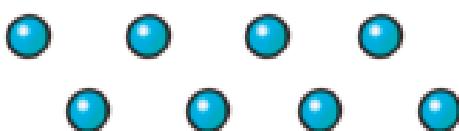
Mangaphi amaqela ama-apile
akhoyo?
Uza kufumana ama-apile amangaphi
umntwana ngamnye?



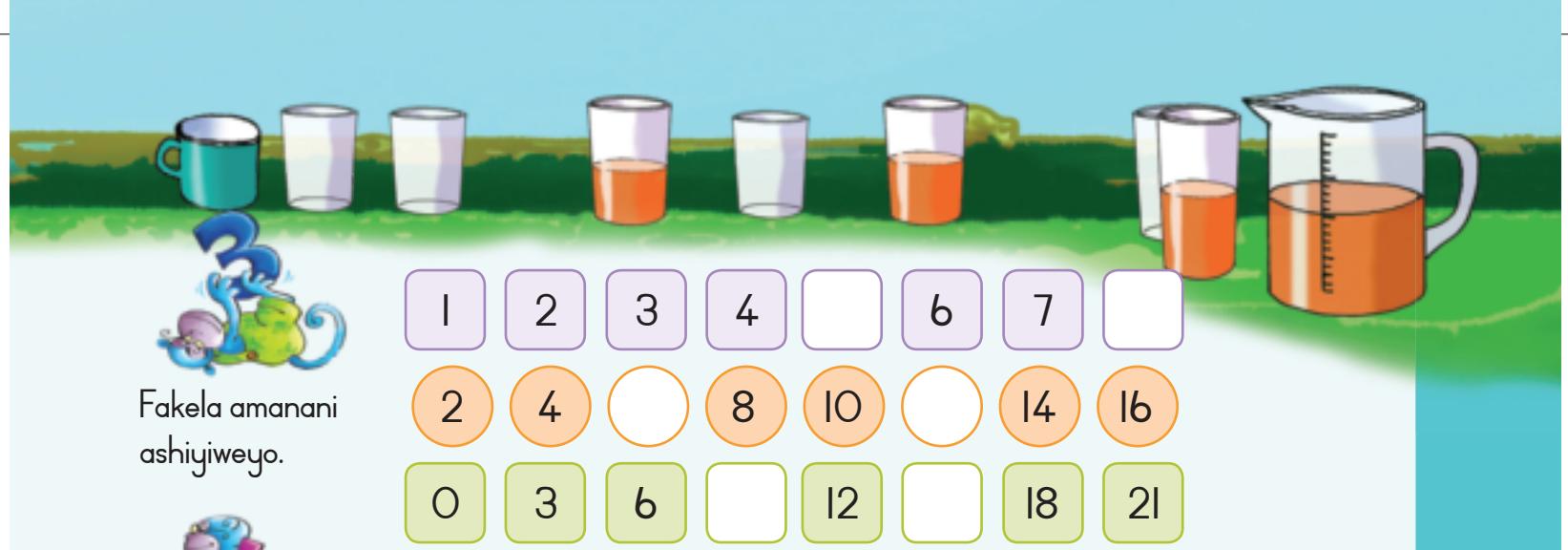
Mangaphi amaqela eelekese
akhoyo?
Uza kufumana iilekese ezingaphi
umntwana ngamnye?



Mangaphi amaqela
amapetyu akhoyo?
Uza kufumana amapetyu
amangaphi umntwana
ngamnye?



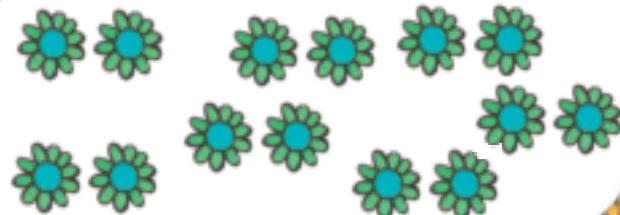
Mangaphi amaqela amapetyu
akhoyo?
Uza kufumana amapetyu
amangaphi umntwana ngamnye?



Fakela amanani
ashiyiweyo.



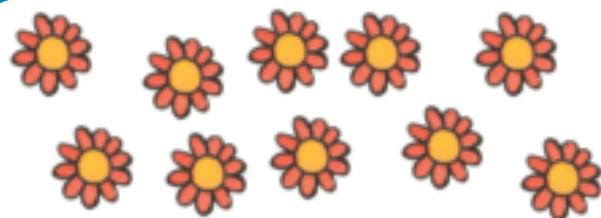
Bhala isivakalisi - manani usebenzise izibini.



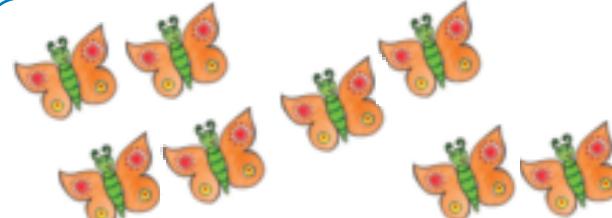
$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{14}$



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--	--

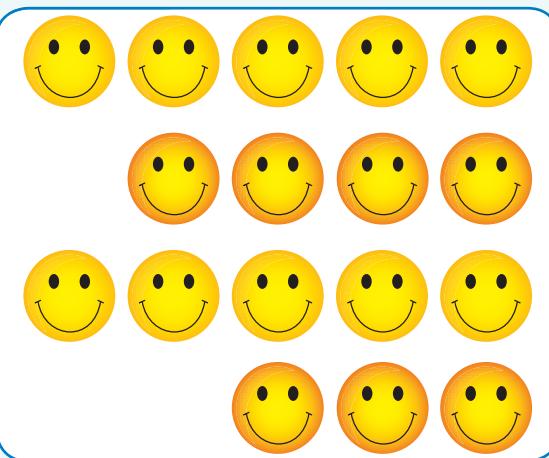


Bala:

$2 + 2 + 2 =$	<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"/>



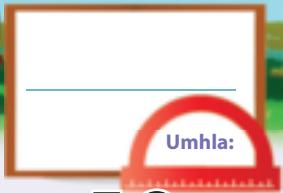
Biyela amaqela ezibini
kumgca ngamnye.



Teacher:
Sign:
Date:



q3

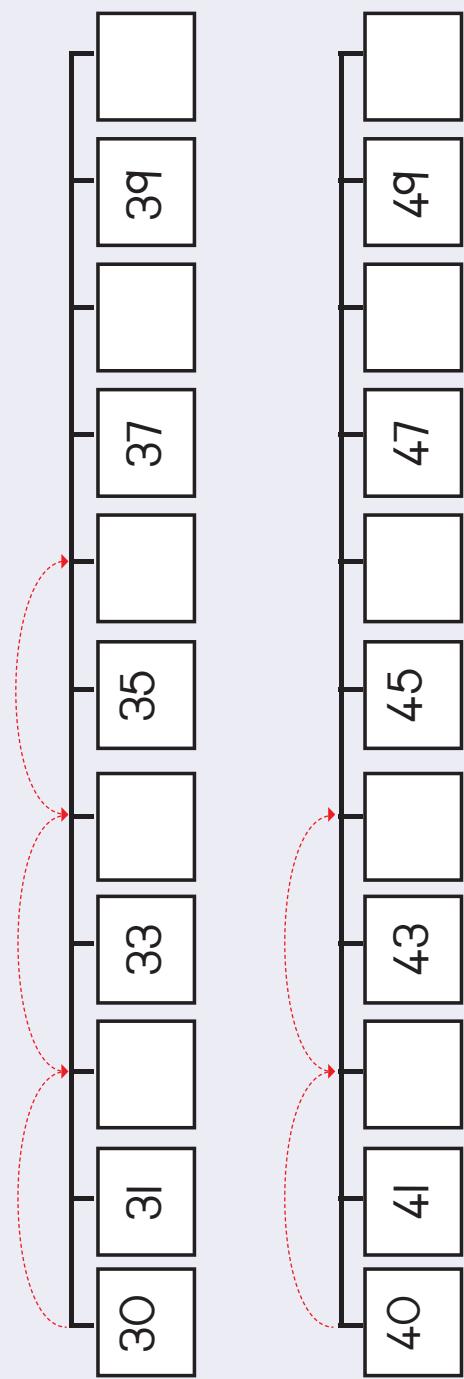


Ikota 3

Iipatheni zamanani: izi - 2 ukuya kuma - 50



Sika amanani ashijiwego kuMsiko 2 uze uwancamathelese kumgca - manani.
Gqibezela nezazinge.



Gqibezela ipatheni ngokufakela imibala
kumanani achanekileyo.

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



Zoba izazinge ubonise oku
kulandelayo:

30, 32, 34

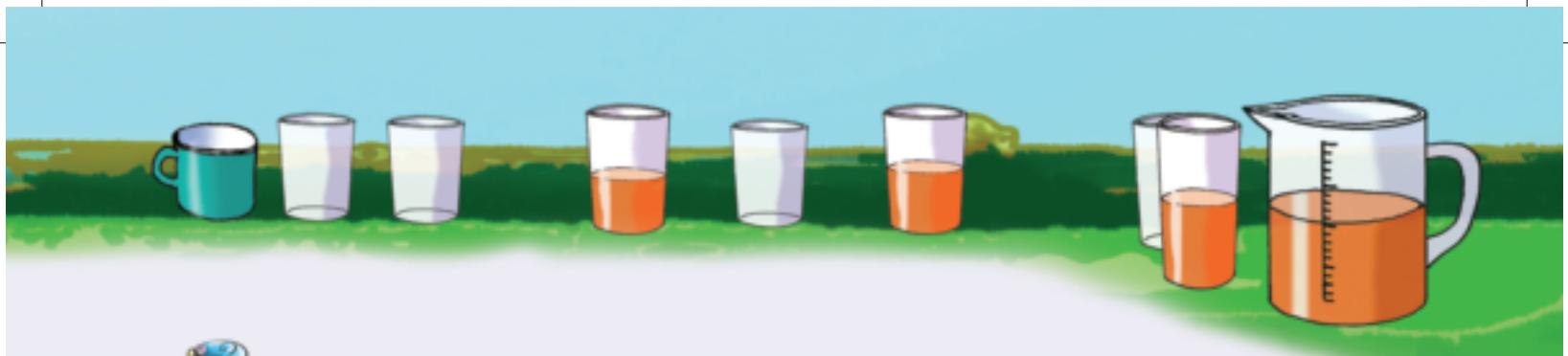
28 30 32 34 36 38

40, 42, 44

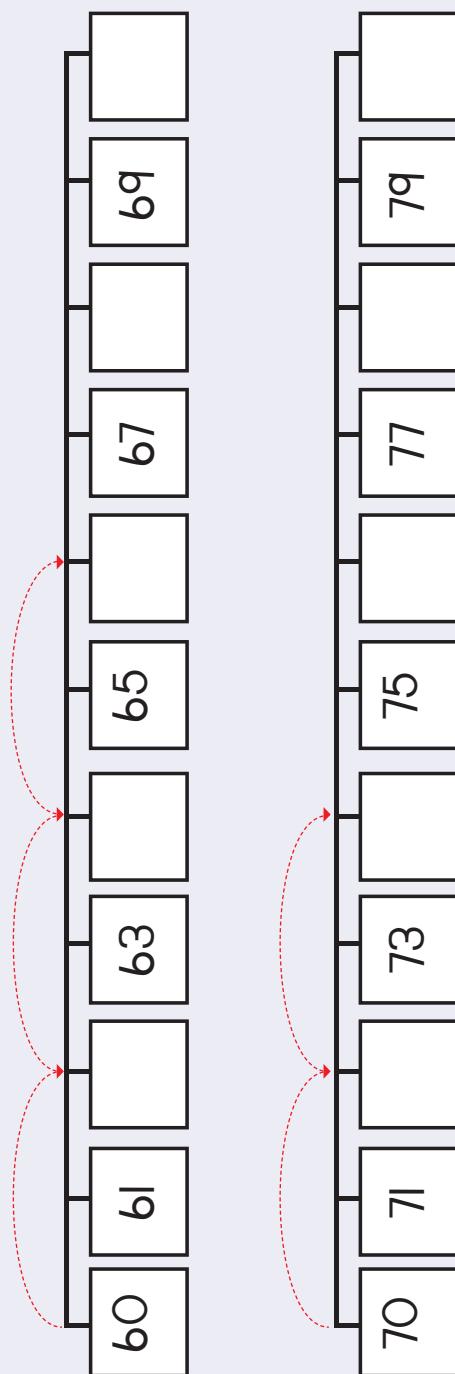
38 40 42 44 46 48

46, 48, 50

40 42 44 46 48 50



Sika amanani kuMsiko 2 uze uwancamathelese kumgca - manani.
Gqibezela izazinge.



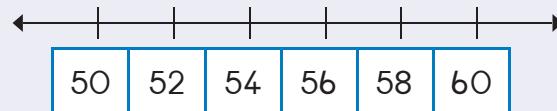
Gqibezela ipatheni ngokufakela
imibala kumanani achanekileyo.

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

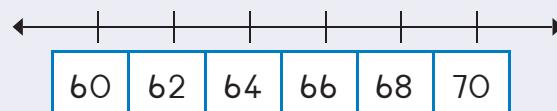


Zoba izazinge ubonise oku
kulandelayo:

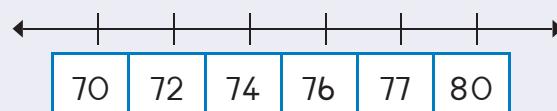
54, 56, 58



64, 66, 68



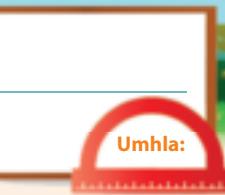
72, 74, 76



Teacher:
Sign:
Date:



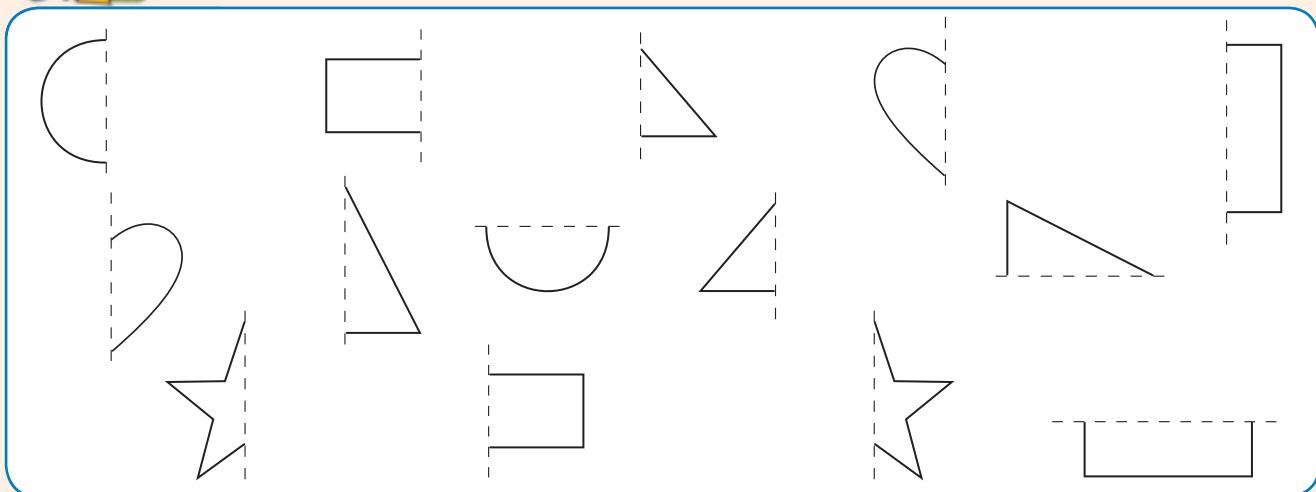
q4



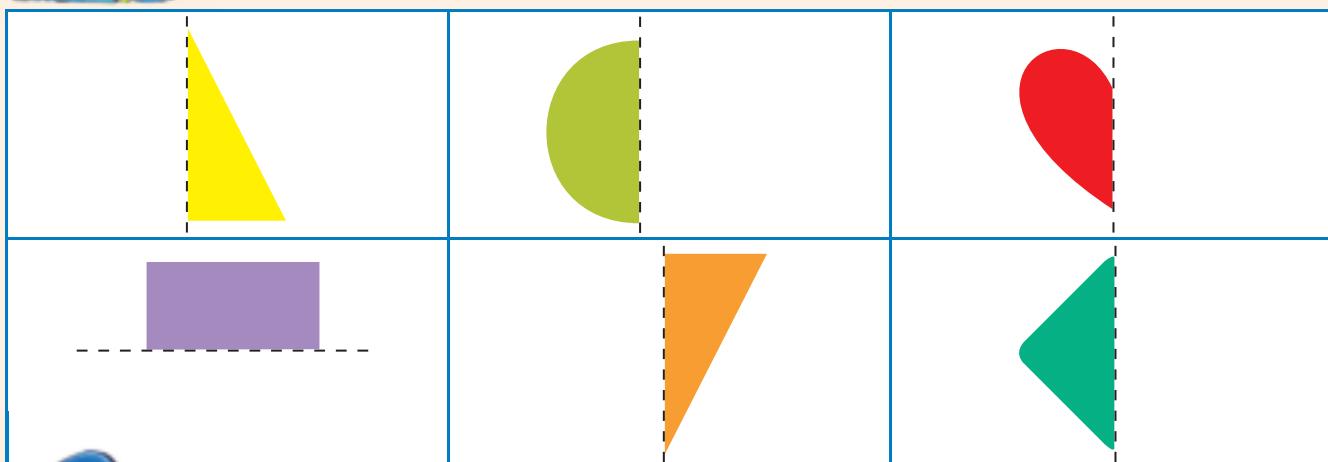
Ikota 3



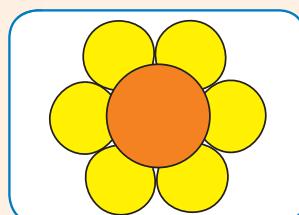
Faka umbala kwiiinxaleny zeemilo eziza kwenza imilo enye.



Zoba esinye isiqingatha uze usifakele umbala.



Krwela umgca wahlule le mifanekiso kubini ukuze amacala omabini afane twatse.



60

0

1

2

3

4

5

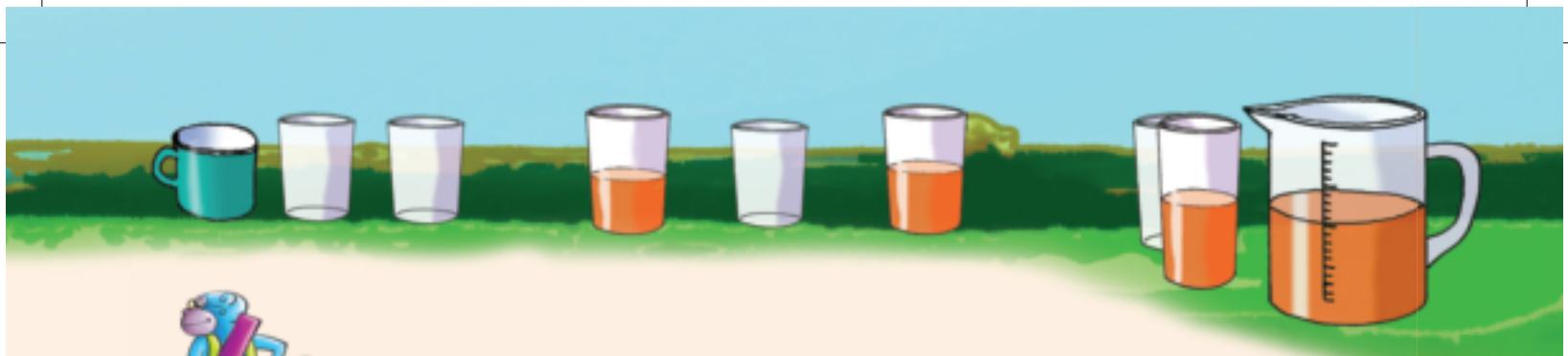
6

7

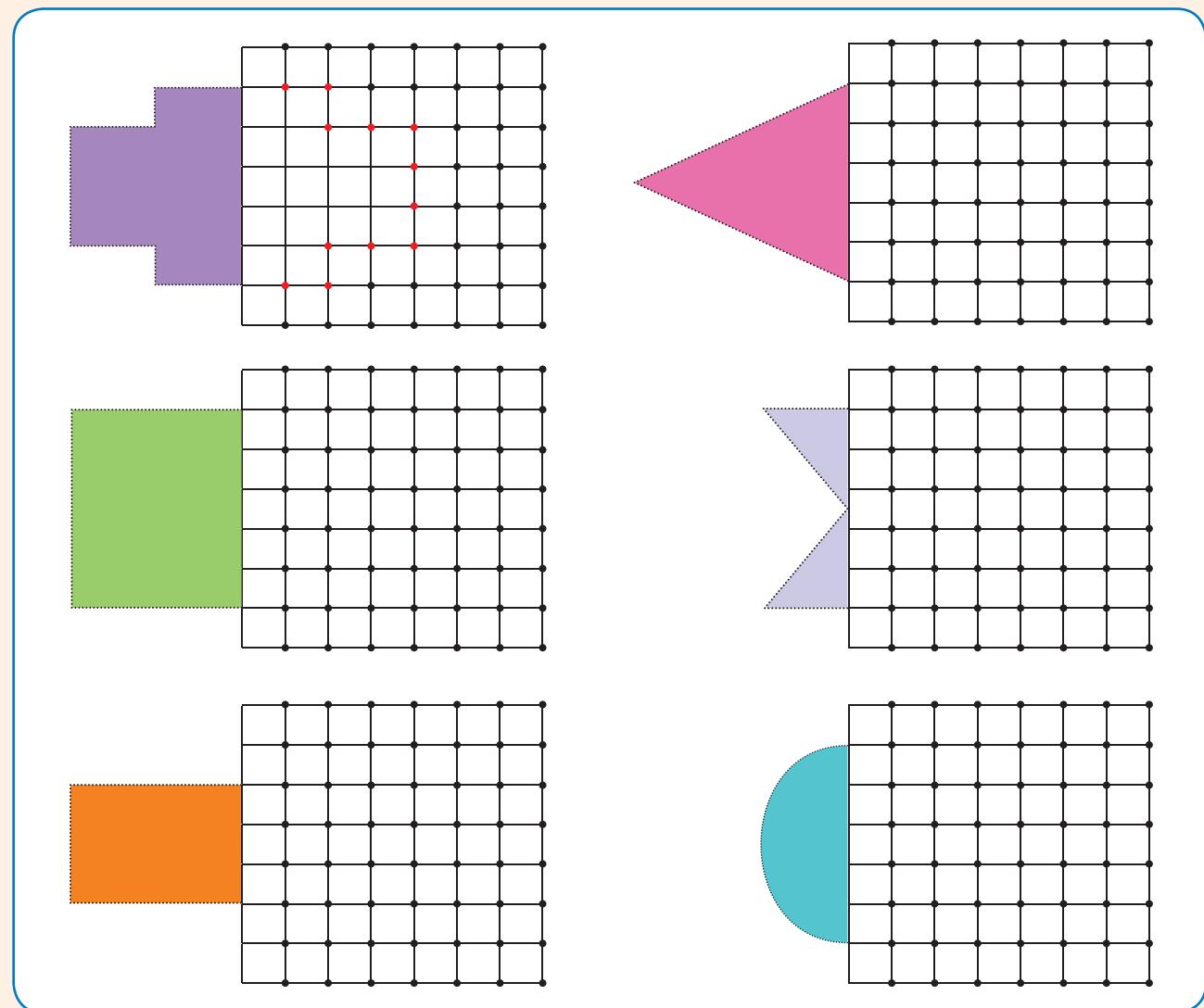
8

9

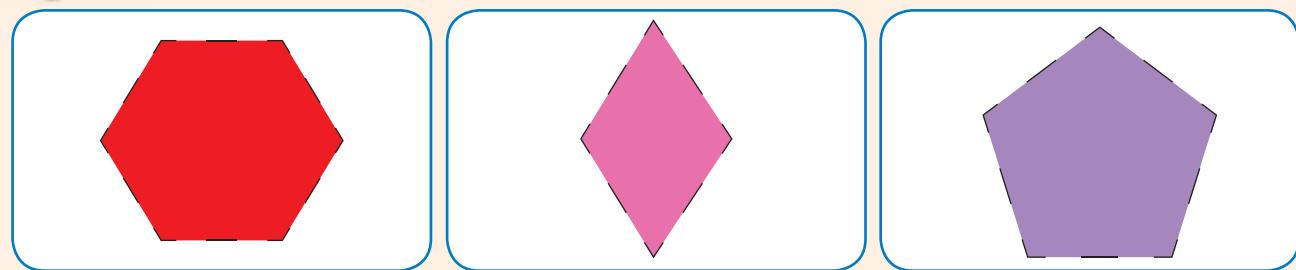
10



Zoba elinye icala lemilo usebenzise ibhodi yegridi ikuncede.



Krwela umgca wahlule ezi milo zibe ngamacala amabini afana twatse.



11

12

13

14

15

16

17

18

19

20



Teacher:
Sign:
Date:

61

q5

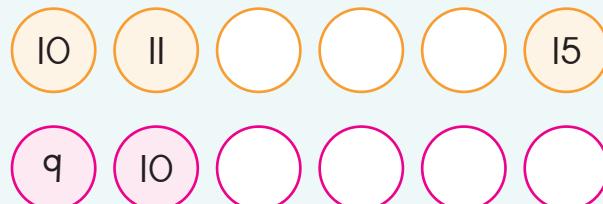


Amanani neXabiso lendawo

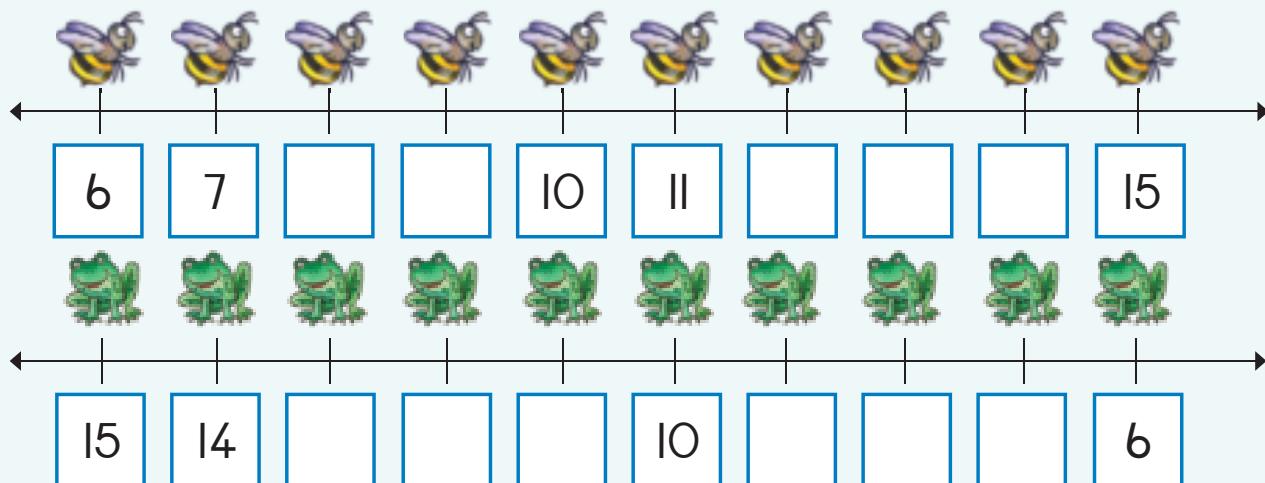
Ikota 3



Fakela amanani ashijiwego.



Bhala impendulo.

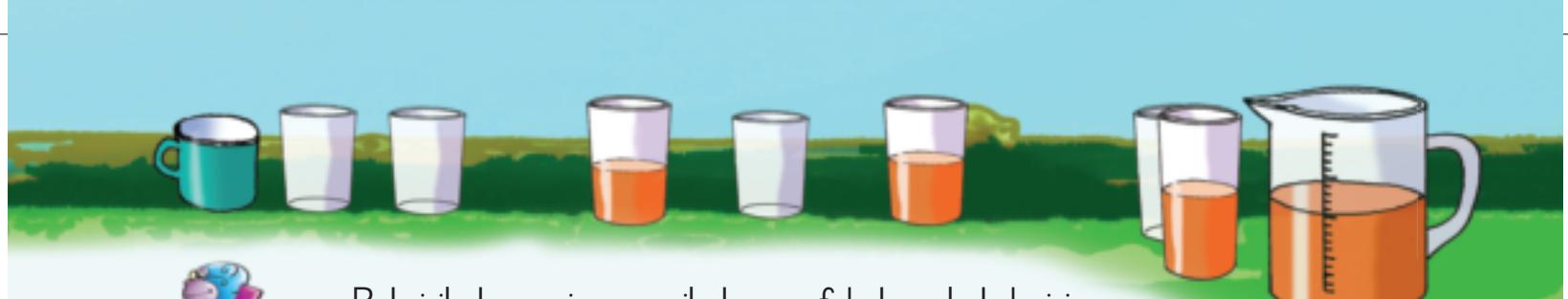


Bhala impendulo.

$10 + 1 =$	II
$10 + 2 =$	
$10 + 5 =$	
$10 + 3 =$	
$15 - 10 =$	
$14 - 10 =$	
$12 - 10 =$	
$II - 10 =$	



62



Bala isibalo ngasinye semibala uze ufakele umbala kwisiqwenga esichanekileyo sephazile esinenani elichanekileyo.
Sikwenzele eyokuqala.



10 + 1 obomvu



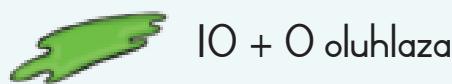
10 + 3 opinki



10 + 5 ozuba



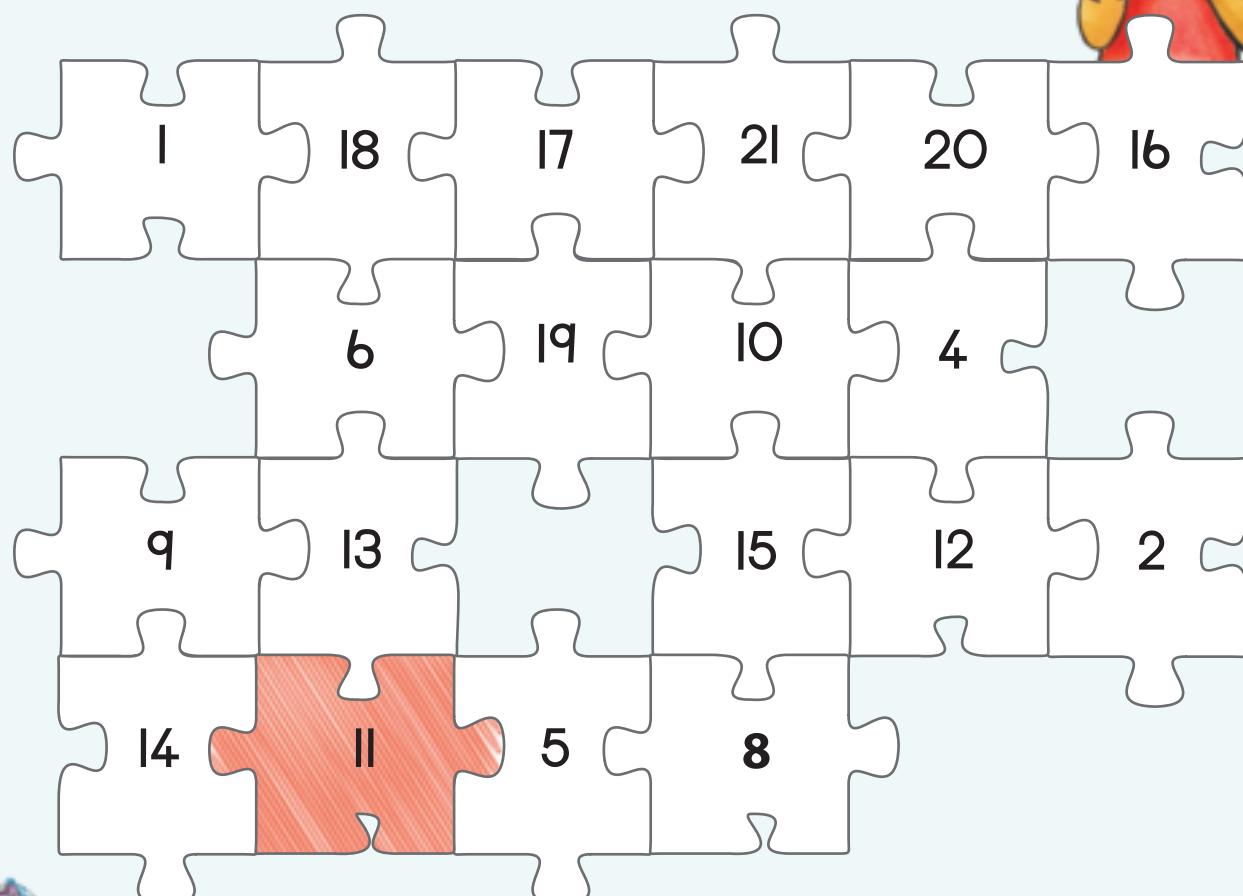
10 + 4 omthubi



10 + 0 oluahlaza



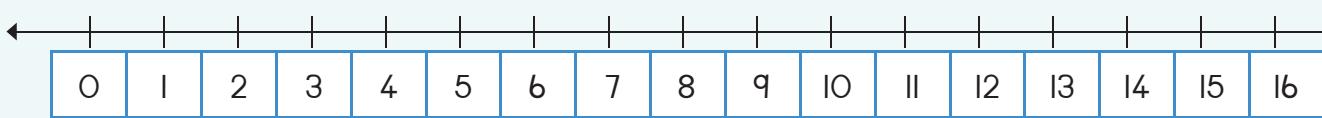
10 + 2 o-orenji



Bonisa ishumi nesine kumgca-manani:



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



96

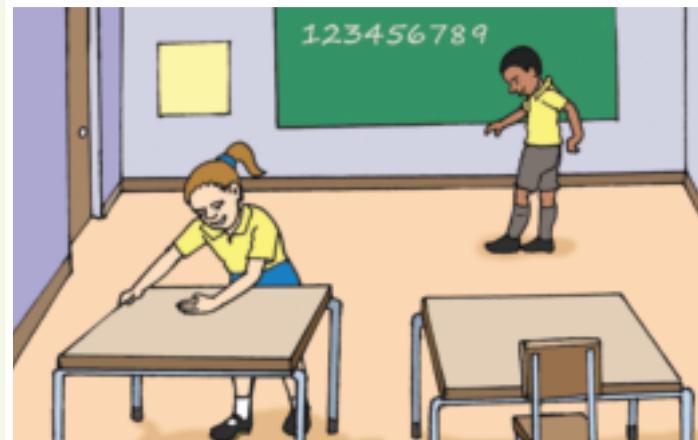


Ikota 3



Linganisa ubude nobubanzi bedesika
okanye betafile ngobude besandla sakho.
Zingaphi izandla zakho ezenza ubude
betafile?

Zingaphi izandla zakho ezenza ububanzi?

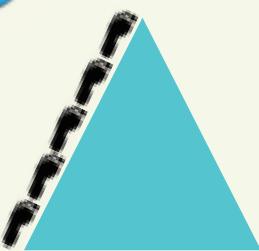


Ubude buzizandla ezi _____.

Ububanzi buzizandla ezi _____.



Zingaphi iinyawo emacaleni?



Bhala impendulo.



Ubude buzizandla ezi _____.



64

0

1

2

3

4

5

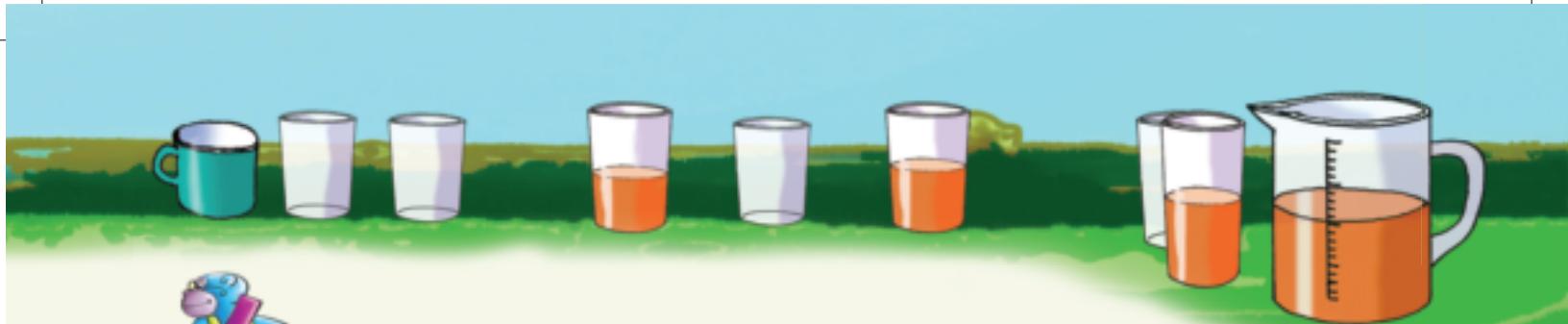
6

7

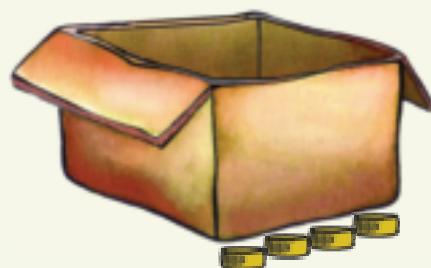
8

9

10



Buyintoni ubude nobubanzi bale bhokisi?

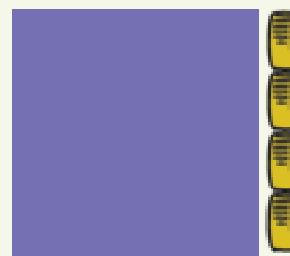
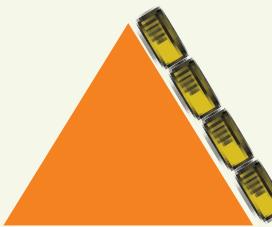


Ubude bungangeziciko zeebhotile ezi _____.

Ububanzi bungangeziciko zeebhotile ezi _____.



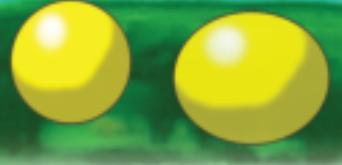
Ingaba icala lide kangangeziciko zeebhotile ezingaphi?



Teacher:
Sign:
Date:



97



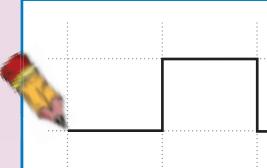
Inani 16

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

7

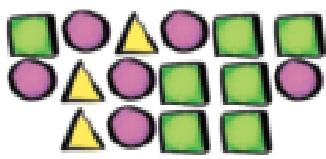
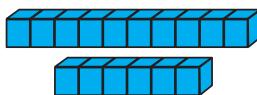
zisixhenxe



Tshatisa imifanekiso.

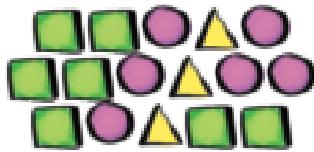


Khuphela amanani.

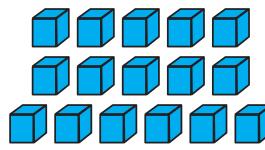


10
6

16



16



10
6

16 16 16 16

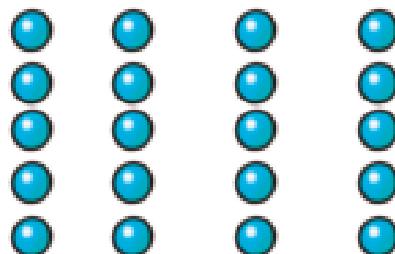
ishumi elinesithandathu

16 16 16 16

ishumi elinesithandathu



Biyela amaso ali-16 kuphela.



Mangaphi ashiyekileyo? _____



Zoba izinto ezili-16.

Khawuzizobe ngenye
indlela ke ngoku.



Fakela amanani ashijiwego.

2	3	4
19		21
17		19



Gqibezela itheyibhile. Umqolo ngamnye
unomfanekiso, inani kanye negama lelo nani.

	16	
		ishumi elinesithandathu



Leliphi inani elinganeno
ngononye kune-16? _____

Leliphi inani elikhulu
ngononye kune-16? _____



Leliphi inani elinganeno ngononye kuneshumi elinesithandathu?

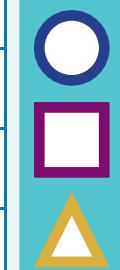
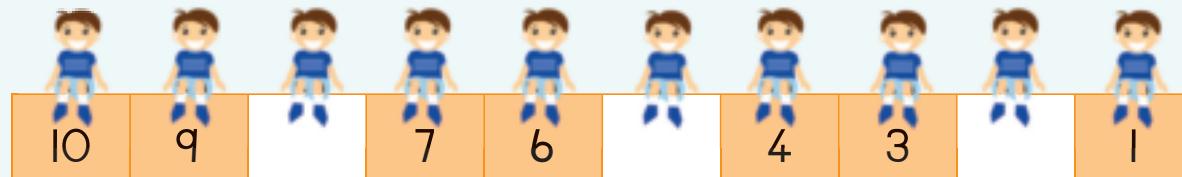
Leliphi inani elinganeno ngesibini kuneshumi elinesithandathu?

Leliphi inani elingaphezulu ngononye kuneshumi elinesithandathu?

Leliphi inani elingaphezulu ngesibini kuneshumi elinesithandathu?



Fakela amanani ashijiwego.



98



Ikota 4

Inani 17

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

8

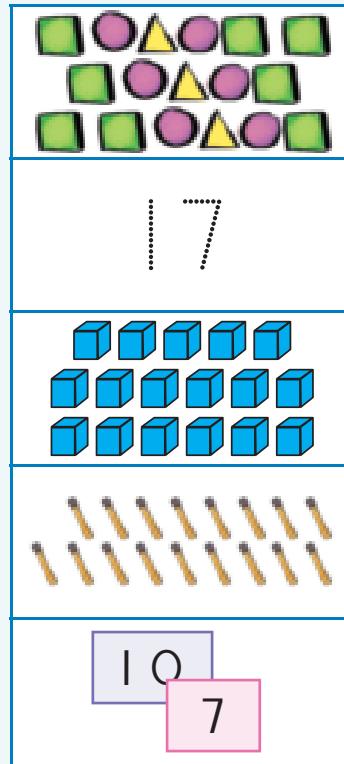
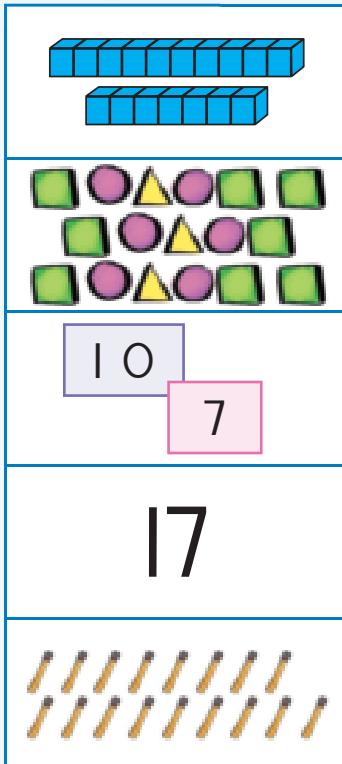
sibhazo



Tshatisa imifanekiso.



Khuphela amanani.



17 17 17 17

ishumi

elinesixhenxe

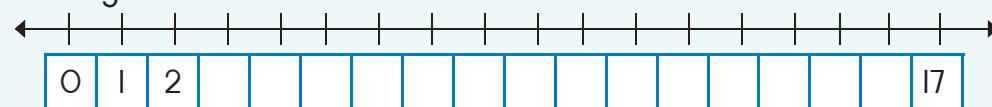
17 17 17 17

ishumi

elinesixhenxe



Gqibezela umgca-manani.





Zoba izinto ezili-17.

Khawuzizobe ngenye
indlela ke ngoku.



Leliphi inani
elilandelayo.

16	17	
24	25	
17	18	



Gqibezela
itheyibhile.
Umqolo ngamnye
unomfanekiso, inani
negama lelo nani.

	17	
		ishumi elinesixhenxe



Leliphi inani elinganeno ngononye kuneshumi elinesixhenxe?

Leliphi inani elinganeno ngesibini kuneshumi elinesixhenxe?

Leliphi inani elingaphezulu ngononye kuneshumi elinesixhenxe?

Leliphi inani elingaphezulu ngesibini kuneshumi elinesixhenxe?



Fakela amanani angekhoyo.

La manani abizwa
ngokuba yiminqakathi.

	2		4		6		8		10
	12		14		16		18		20

11 12 13 14 15 16 17 18 19 20



Teacher: _____
Sign: _____
Date: _____



qq



Ikota 4

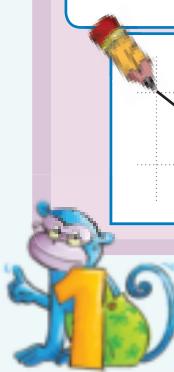
Inani 18

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

q

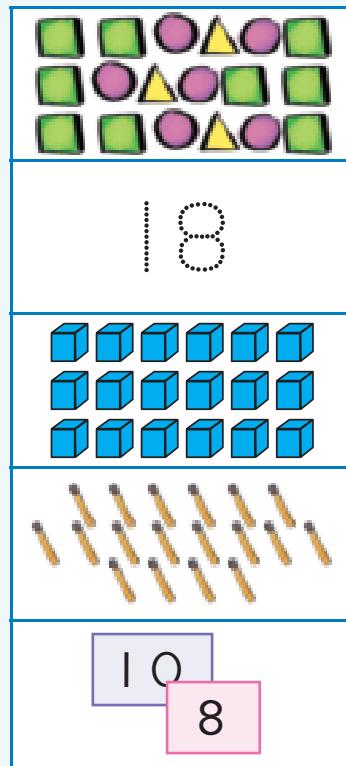
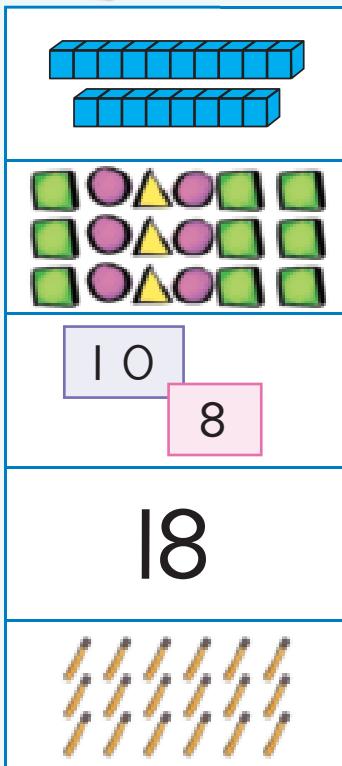
lithoba



Tshatisa imifanekiso.

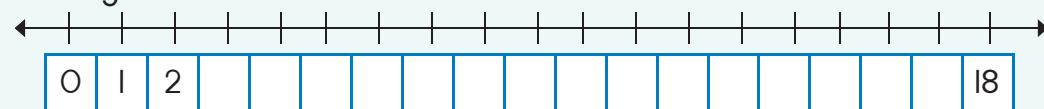


Khuphela amanani.



18	18	18	18
ishumi elinesibhozo			
18	18	18	18
ishumi elinesibhozo			

Gqibezele umgca-manani.



0 1 2 3 4 5 6 7 8 9 10



Zoba izinto ezili -18.

Khawuzizobe ngenye
indlela ke ngoku.



Leliphi inani
elilandelayo?

8	9	
33	34	
0	1	



Gqibezela
itheyibhile.
Umqolo ngamnye
unomfanekiso,
inani negama lelo
nani.

	18	
		ishumi elinesibhozo



Leliphi inani elinganeno ngononye kune -18?

Leliphi inani elinganeno ngesibini kune -18?

Leliphi inani elingaphezulu ngononye kune -18?

Leliphi inani elingaphezulu ngesibini kune -18?



Fakela amanani ashiyiweyo.



Teacher:
Sign:
Date:

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



Inani |q

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

|o

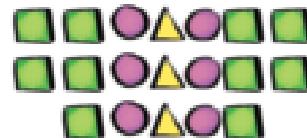
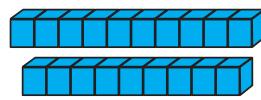
ishumi



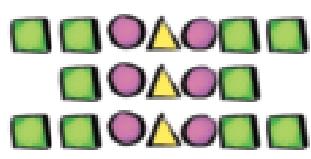
Tshatisa imifanekiso.



Khuphela amanani.



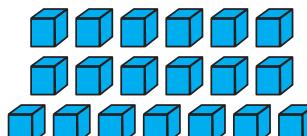
|q



|o

q

|q



|o

q

|q |q |q |q

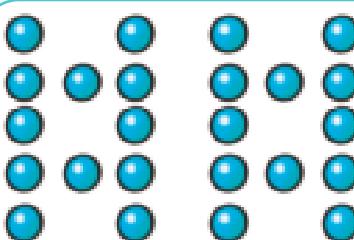
ishumi elinethoba

|q |q |q |q

ishumi elinethoba



Biyela amaso ali-|q kuphela.



Mangaphi ashiyekileyo? _____



Zoba izinto ezili -19.

Khawuzobe ngenye
indlela ke ngoku.



Leliphi inani
eliphakathi?

14		16
35		37
8		10



Gqibezela itheyibhile.

Umqolo ngamnye unomfanekiso, inani negama lelo nani.

	19	
		ishumi elinethoba



Leliphi inani elinganeno ngononye kune -19?

Leliphi inani elinganeno ngesibini kune -19?

Leliphi inani elingaphezulu ngononye kune -19?

Leliphi inani elingaphezulu ngesibini kune -19?



Fakela amanani ashiyiwego.

La manani abizwa
ngokuba ngoonombini.

I		3		5		7		9	
II		13		15		17		19	

11 12 13 14 15 16 17 18 19 20



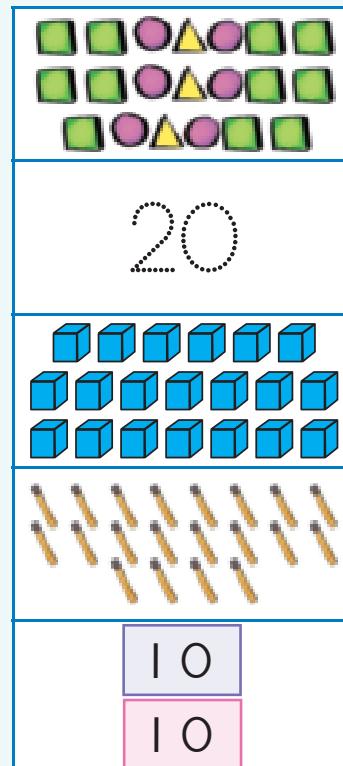
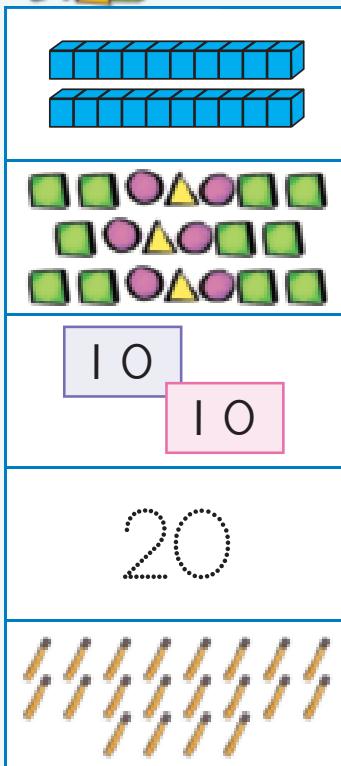
101



Ikota 4



Tshatisa imifanekiso.



Khuphela amanani.

20 20 20 20

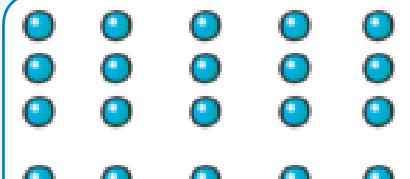
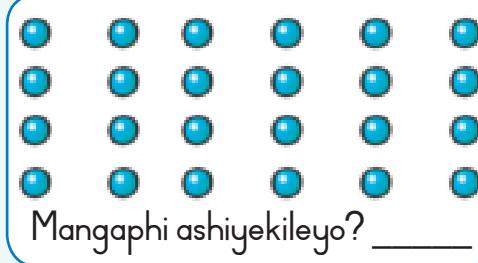
amashumi amabini

20 20 20 20

amashumi amabini



Biyela amaso
angama-20
kuphela.

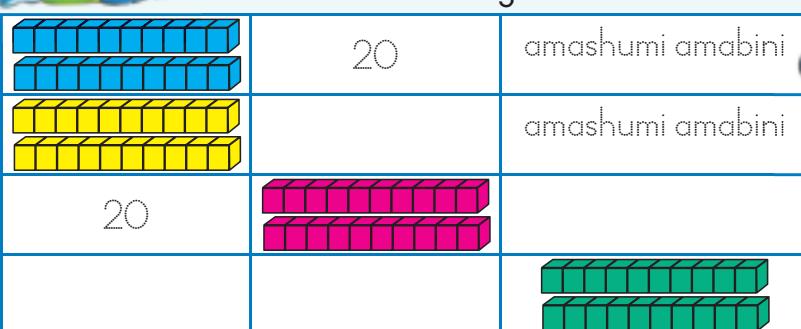


Mangaphi ashiyekileyo? _____

Mangaphi ashiyekileyo? _____



Gqibezela itheyibhile. Umqolo ngamnye
unomfanekiso, inani negama lelo nani.



Leliphi inani elingaphantsi
ngononye kunama-20? _____

Leliphi inani elingaphezulu
ngononye kunama-20? _____



0 1 2 3 4 5 6 7 8 9 10



Dibansa inani
negama.

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



Fakela amanani ashijiwego.

Phambi		Emva
16	17	
	12	
	14	
	9	10
	6	

11 12 13 14 15 16 17 18 19 20

zine
zisixhenxe
zilithoba
zintathu
ishumi elinanye
ishumi elinesibini
inye
zibini
zisibhozo
iqanda
zintlanu
zintandathu
ishumi elinesithathu
zilishumi
ishumi elinesine



Sebenzisa amagama athi
ngaphantsi okanye ngaphezulu
ukuze ugqibezele oku:

Ama-34 anga _____ kunama-38

Ama-79 anga _____ kunama-65

Teacher: _____
Sign: _____
Date: _____



102



Ikota 4

Ukudibana



Biyela inani elikhulu kwibloko nganye.

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

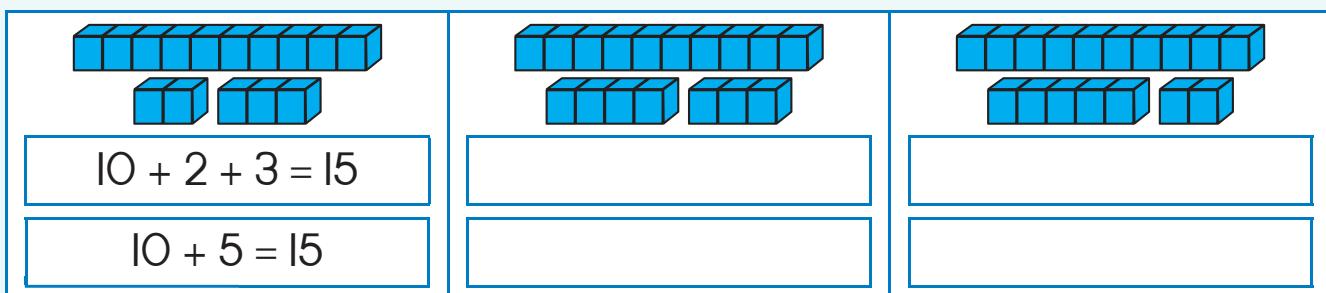


Dibana oku kulandelayo.
Qala ngenani elikhulu.

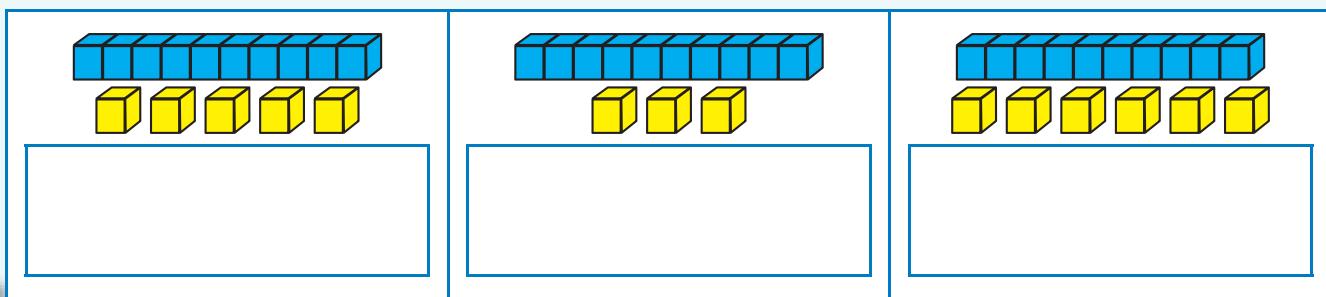
$1 + 1 + 5 =$	$5 + 1 + 1 =$
$6 + 2 + 10 =$	
$3 + 4 + 2 =$	
$2 + 6 + 3 =$	
$1 + 10 + 2 =$	



Dibana iibloko.



Bhala isivakalisi - manani.



76

0

1

2

3

4

5

6

7

8

9

10



Bhala isivakalisi - manani kwisibalo ngasinye:

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



Fakela amanani angekhoyo.

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



Teacher:
Sign:
Date:



103



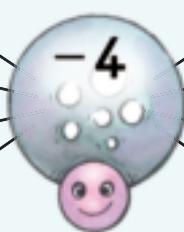
Ikota 4

Ukuthabatha



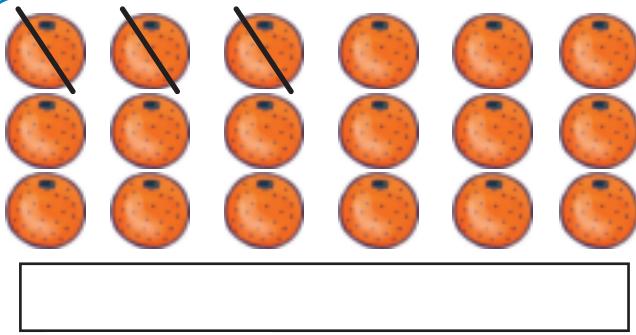
Bala.

17
19
14
12





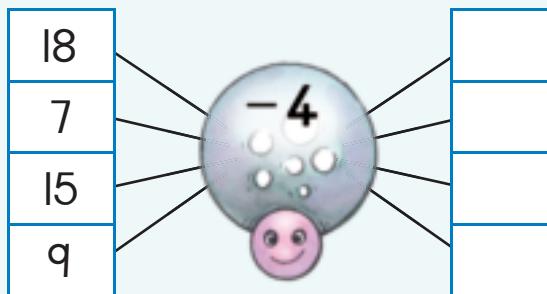
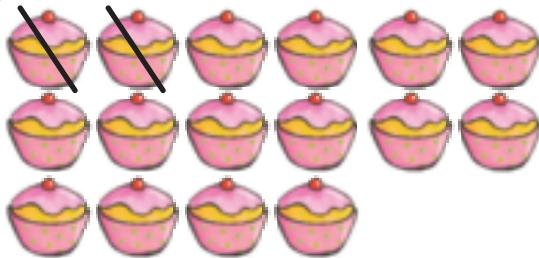
Bhala isivakalisi - manani.



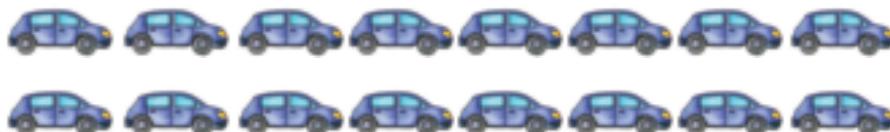
Bhala isivakalisi - manani.



Bala.



Gqibezela izibalo usebenzise imifanekiso.



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



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





Thabatha iibloko.

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



Gqibeza:

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



Gqibeza:

Ezi-5 eziphindwe kabini zenza	<input type="text"/>	Ezi-3 eziphindwe kabini zenza	<input type="text"/>	Ezi-4 eziphindwe kabini zenza	<input type="text"/>
Ezi-7 eziphindwe kabini zenza	<input type="text"/>	Ezi-2 eziphindwe kabini zenza	<input type="text"/>	Ezi-8 eziphindwe kabini zenza	<input type="text"/>
i-10 eliphindwe kabini lenza	<input type="text"/>	Ezili-9 eziphindwe kabini zenza	<input type="text"/>	u-1 ophindwe kabini wenza	<input type="text"/>



Phendula:

$9 + 9 - 1 =$	<input type="text"/>	okanye	Phinda kabini $9 - 1 =$	<input type="text"/>
	<input type="text"/>	okanye	Phinda kabini $5 - 1 =$	<input type="text"/>
$4 + 4 - 1 =$	<input type="text"/>	okanye		



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

104



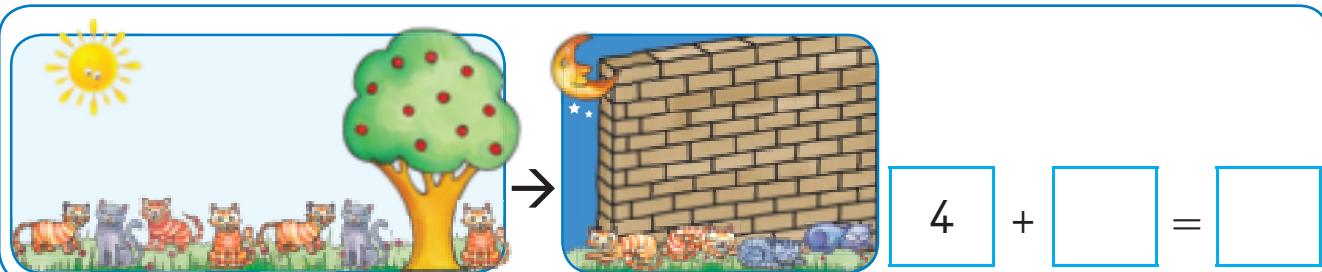
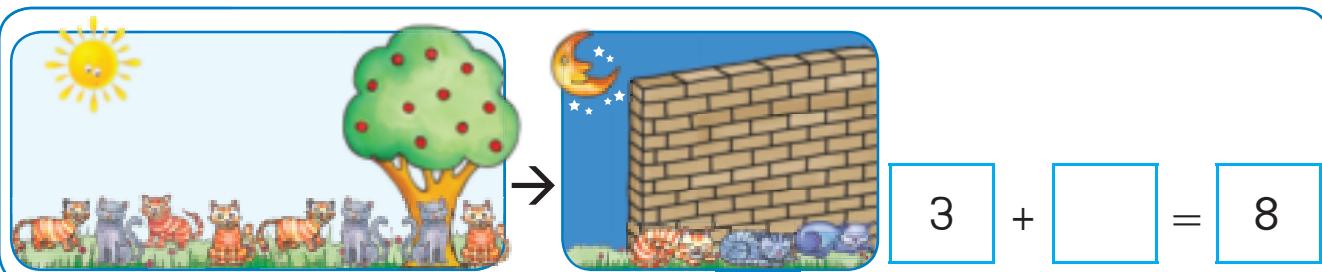
Ikota 4



Bala ukuba zingaphi iikati ezigcakamele ilanga.

Ezinye zilele emva kodonga.

Bala ukuba zingaphi ezisemva kodonga uze ubhale impendulo.



Sombulula la maqhina ezibalo.

Ungazoba umfanekiso ukuncede.



ULerato ebenee -orenji ezi -4. UPeter uye wampha ezinye ezili -13.
Zingaphi ii -oreni anazo ngoku?

UMandla uneekhrayoni zepenisile ezi -5. U-Anne yena uneekhrayoni ezisi -8.
Ngubani oneekhrayoni zepenisile ezimbalwa?



80

0

1

2

3

4

5

6

7

8

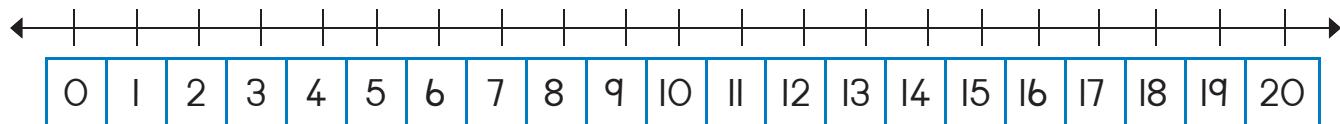
9

10

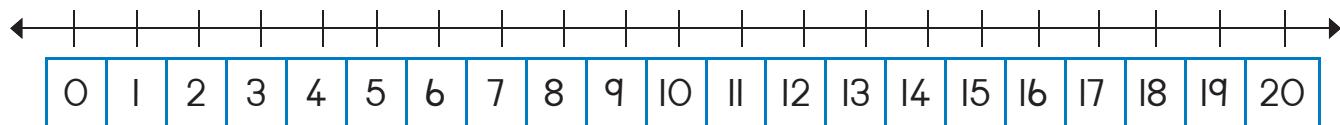


Yenza umgca - manani ukuze usombulule la maqhina ezibalo:

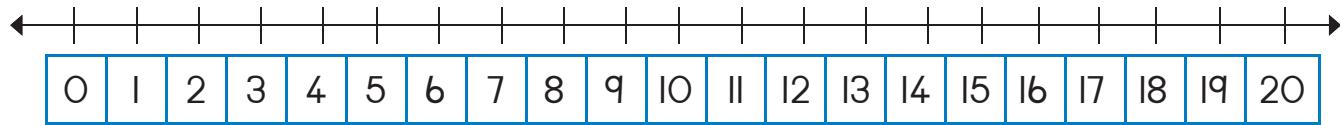
UThandi unamapetyu aluhlaza ama - 6 nazuba ali - 9.
Mangaphi amapetyu anawo ewonke?



ULerato unamapetyu ali - 16. Asibhozo aluhlaza aze amanye abe zuba.
Mangaphi amapetyu azuba anawo uLerato?



UThandi uneebhana ezili - 19. UThemba yena uneebhana ezili - 10.
Zininzi kangakanani iibhana zikaThandi kunezikaThemba?



Ngawaphi amanani aphakathi kwama - 25 nama - 30?



Biyela inani elikhulu ngo - 1 kunama - 76.

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



Biyela inani elikhulu ngesi - 2 kunama - 76.

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

11 12 13 14 15 16 17 18 19 20



105



Ikota 4



Ngubani ophume kwindawo yokuqala elugqatsweni?
Bhala indawo aphume kuyo ngezantsi komntu lowo.

Sipho

Lerato

John

Peter

Ann



2

3



Bazobe
beseqongeni.

Isilivere

Igolide

Ubhedu/ibronzi

Ngubani ofumene imbasa yegolide? _____

Ngubani ofumene imbasa yesilivere? _____



Zoba umtya wamaso
ngolu hlubo:

Iliso lokuqala lizuba.
Elesibini iliso libomvu.
Elesithathu liluhlaza.
Elesine limthubi.
Elesihlanu lizuba.
Elesithandathu libomvu.
Elesixhenxe liluhlaza.
Elesibhozo limthubi.
Elethoba lizuba.
Eleshumi libomvu.

Umtya wam wamaso.



82

0

1

2

3

4

5

6

7

8

9

10



Jonga ukulandelelana kweemilo.
 Khuphela iimilo kwiindawo ezichanekileyo kwitheyibhile.
 Sikwenzele eyokuqala.



Yeyiphi imilo:

yesine		yesixhenxe	
yesihlanu		yethoba	
yesibini		yokuggqibela	
yesithathu		yesithandathu	



Yenza oku:



Faka umbala obomvu kwisangqa sokuqala.



Faka umbala omthubi kwisangqa sesihlanu.



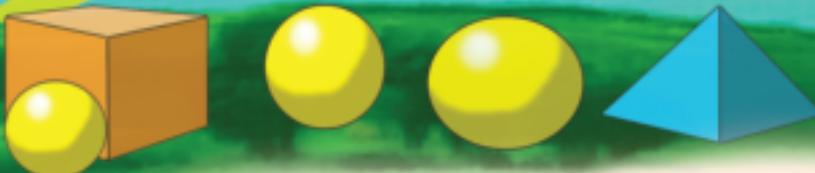
Faka umbala ozuba kwisangqa sesibhozo.



Zoba umgca-manani oqala kwi-10 uye kuma-20.
 Biyela inani lesithathu nelesibhozo.



106

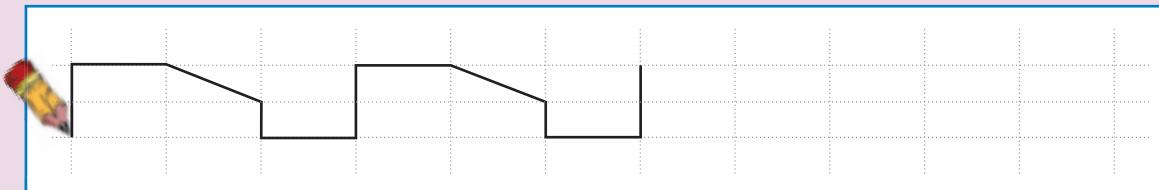


Ikota 4

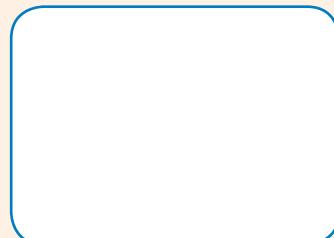
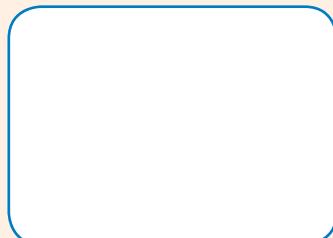
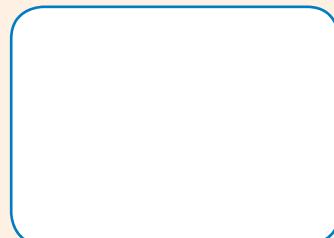
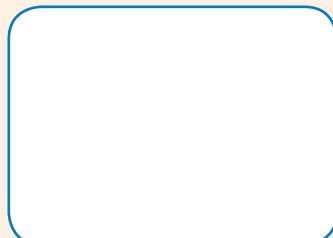
Izinto neemilo

Uhlaziyo:

Uhlaziyo: Gqibezela ipatheni.



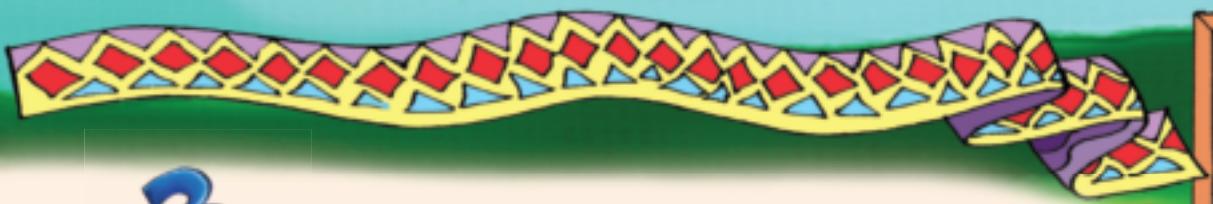
Funa imifanekiso emibini yebhola kanye neminye emibini yebhokisi kwiphephandaba okanye kwimagazini uze uyincamatelise apha ngezantsi.



Biyela ngesangqa esizuba zonke izinto ezityibilikayo.

Biyela ngesikwere esibomvu zonke izinto eziqengqekekayo.





Khuphela igama uze uzobe loo nto liyimeleyo.

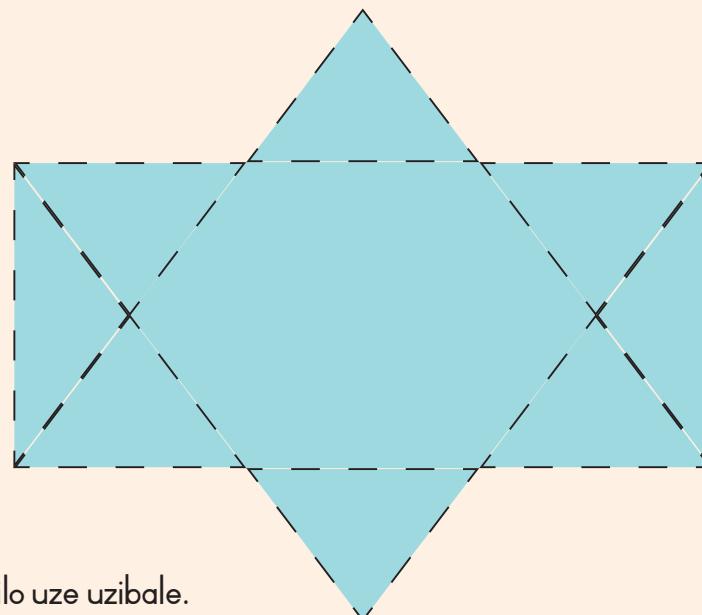


ibhokisi

ibhola



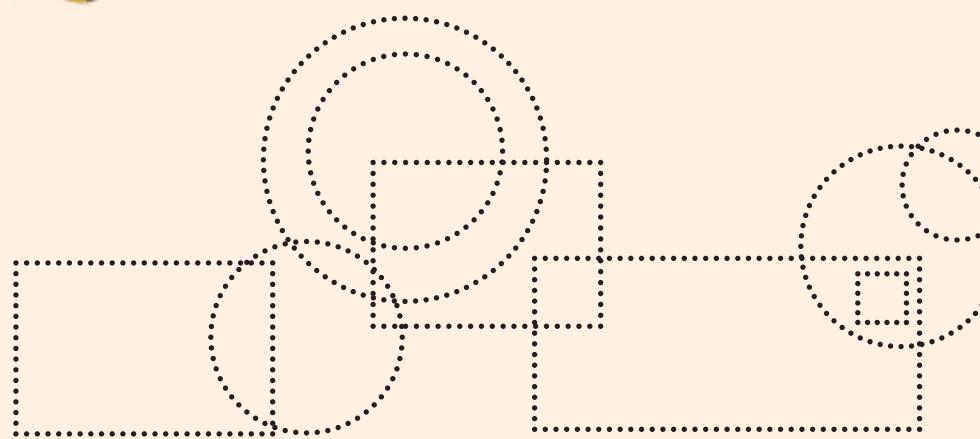
Bala bonke oonxantathu uze ubhale inani labo.



Impendulo:



Khuphela iimilo uze uzibale.



Izangqa



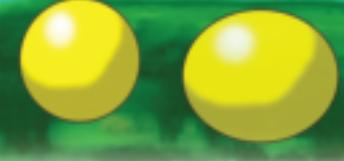
Izikwere



11 12 13 14 15 16 17 18 19 20



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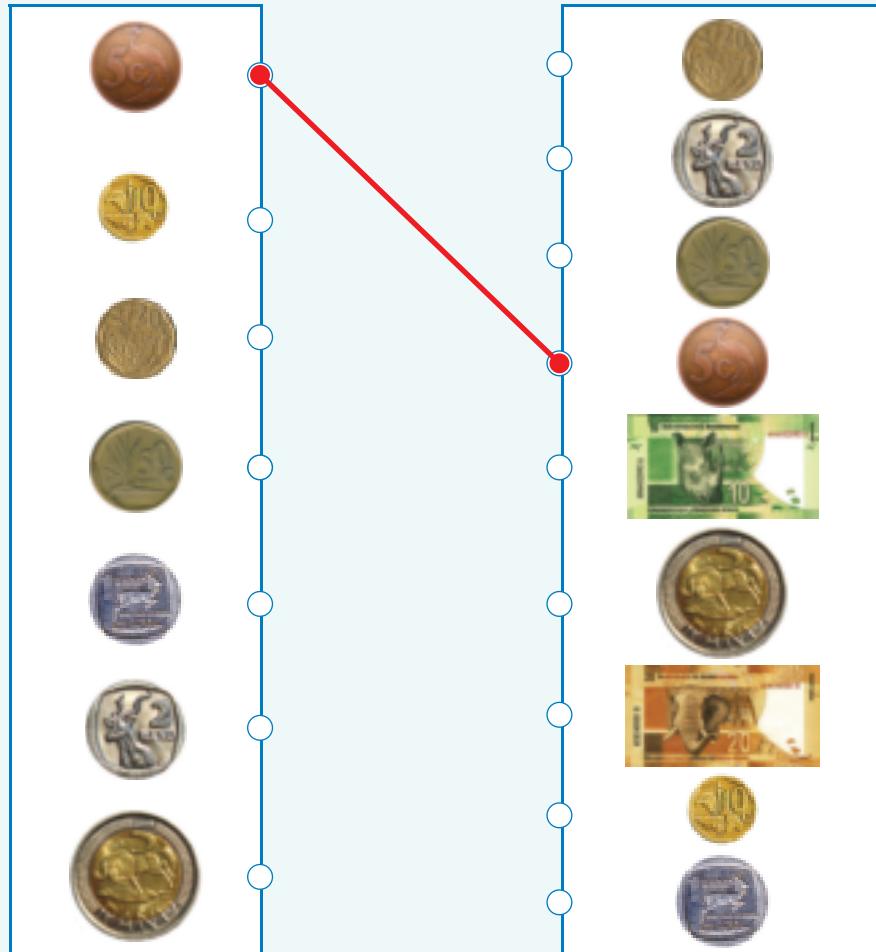
Ikota 4

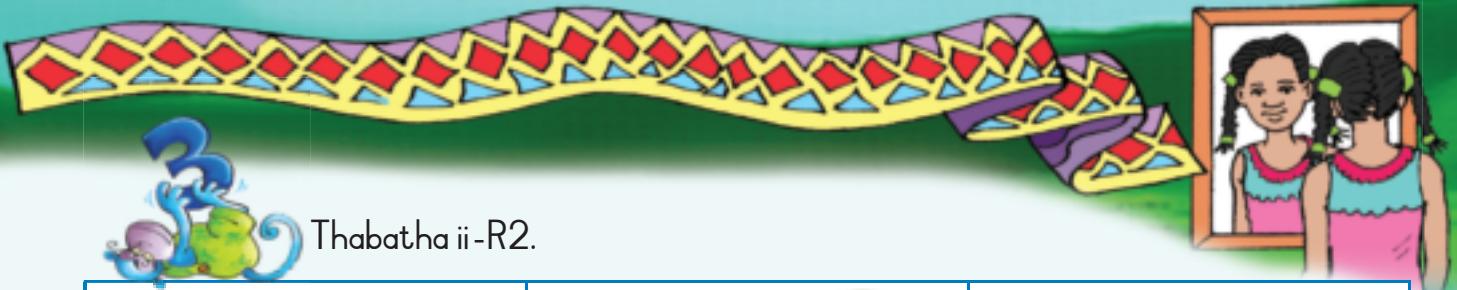


Zeziphi iinkozo
zemali okwaziyo
ukuzitshatisa?



Kwibloko nganye phawula imali eziinkozo nengamaphepha eza kukunika ezi zixa.





Thabatha ii-R2.

$RI2 - R2 = RIO$		



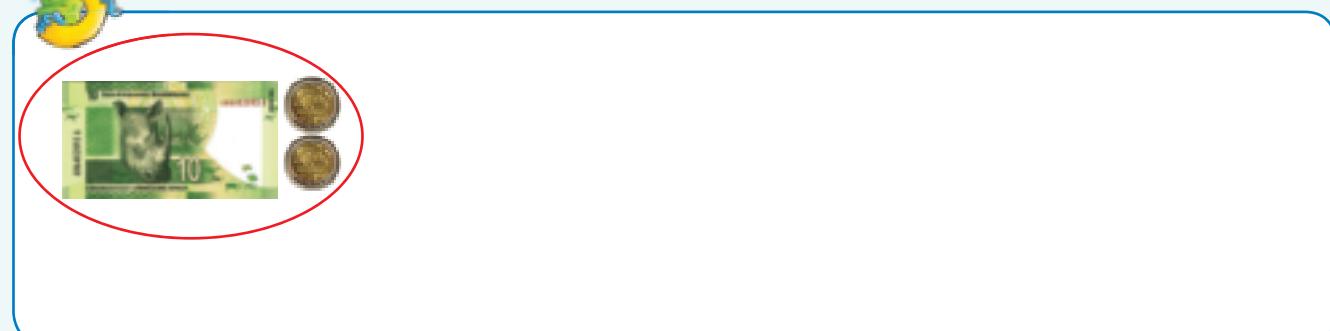
Thabatha ii-R5.

$RI5 - R5 = RIO$		

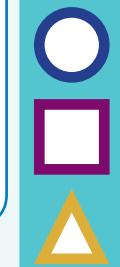


Zingaphi iindibaniso ezahlukileyo onokuzifumana kuma -R20?

Sikwenzele eyokuqala.



Biyela imali kumgca
ngamnye ocinga ukuba
unokuthenga kakhulu ngayo.



Teacher:
Sign:
Date:





Okunye ngemali

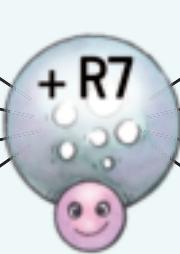


Bala.

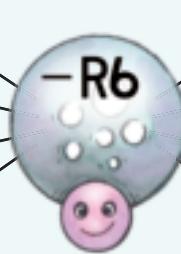


Bala.

R5
R9
R7
R4



RI3
RI5
RI7
RI4





Fakela impendulo.



Yeyiphi engaphezulu?
Biyela impendulo yakho.

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

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



Dibanisa amanani uxwese uphinde uwadibanise uhlise uze ubhale impendulo yakho.

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





Jonga umzekelo uze
ugqibezele ezinye.



UJames uthenge isonka ngee -R8.
Uhlawule nge -RIO eliphepha. Yimalini
itshintshi ayifumeneyo?

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

Uthini umbuzo?

Bhala amanani.

Bhala isibalo uze ubale.



UMama kaBusi uthenge
umnqwazi ngee -R17. Uhlawule
ngee -RIO zamaphepha ezimbini.
Yimalini itshintshi ayifumeneyo?



Umhla wokuzalwa kuka Judy
ubungeCawe. Uye waphiwa ii -R5
ngudadewabo, umnakwabo yena
wampha ii -R2 waze umza wakhe
wampha ii -RIO. Yimalini ayiphiweyo
iyonke?

Uthini umbuzo?

Bhala amanani.

Bhala isibalo uze ubale.

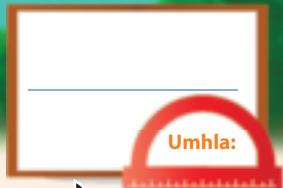
Uthini umbuzo?

Bhala amanani.

Bhala isibalo uze ubale.



10q

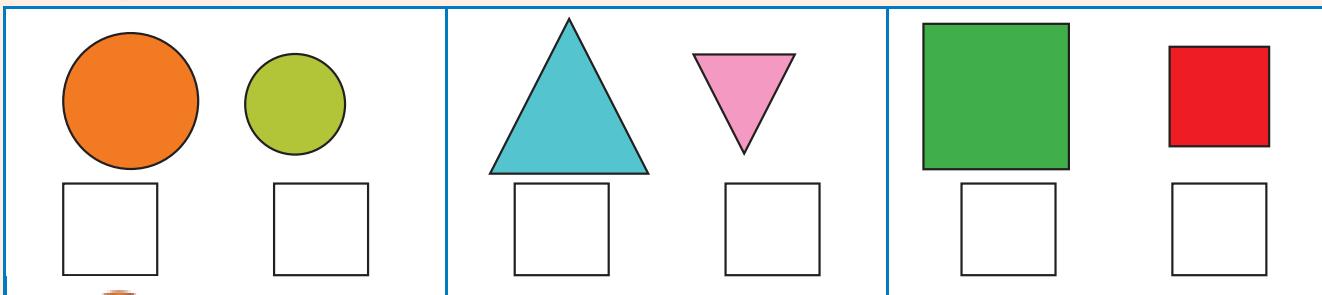


Ikota 4

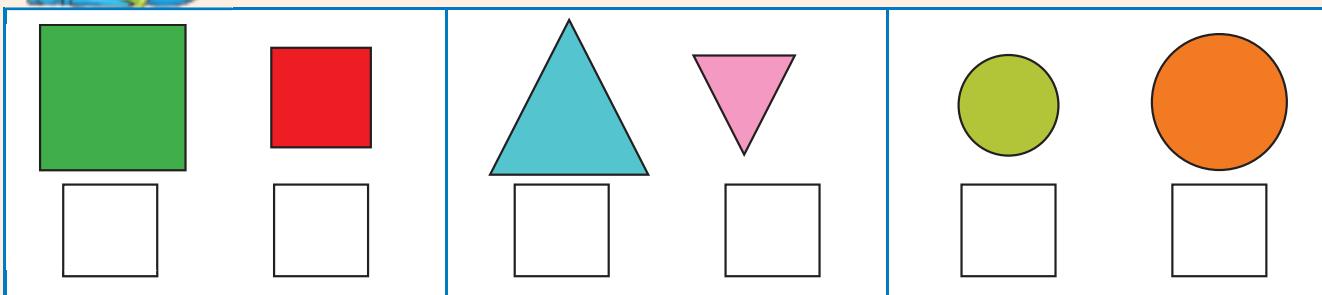


Iimilo ezinemilinganiselo emi-2 (2D)

Phawula eyona milo incinci kwibloko nganye.

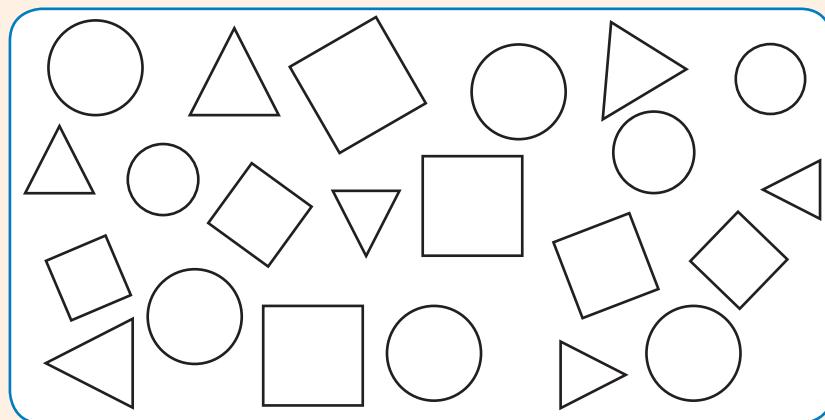


Phawula eyona milo inkulu kwibloko nganye.

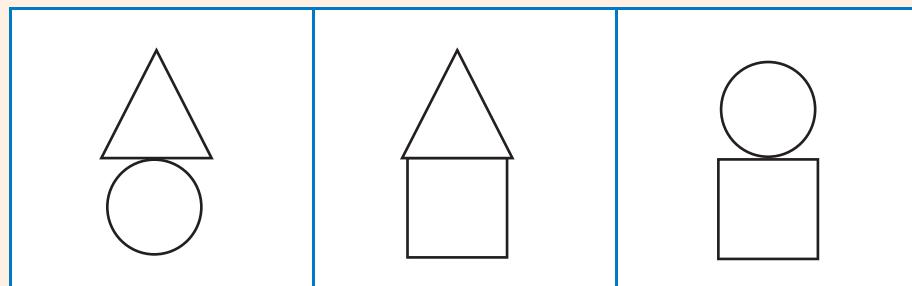


Faka umbala:

- ozuba kwizikwere
- obomvu koonxantathu
- oluahlaza kwizangqa



Yenza umfanekiso ngeemilo.
Umfanekiso ngamnye
siwuqale ngeemilo ezimbini.



90

0

1

2

3

4

5

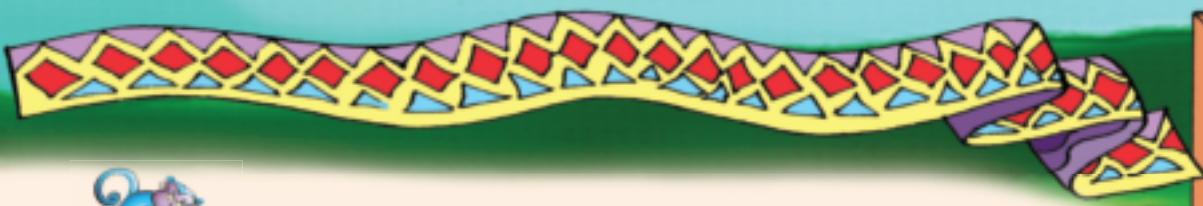
6

7

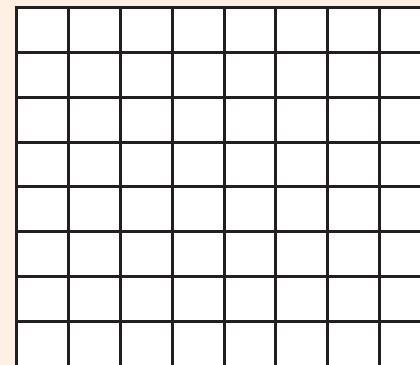
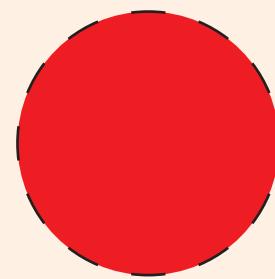
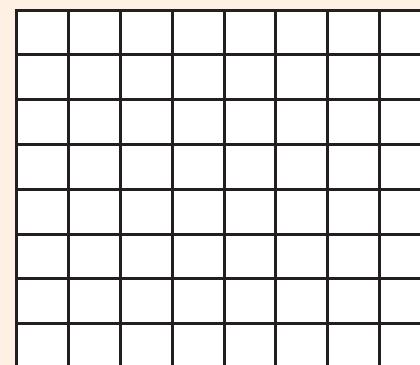
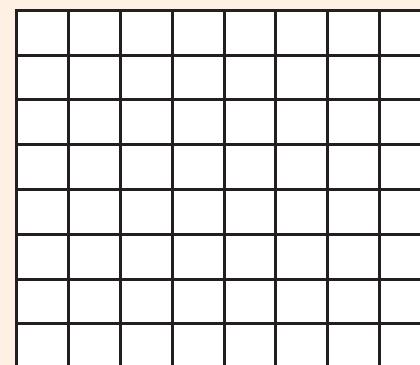
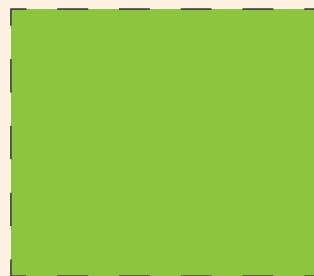
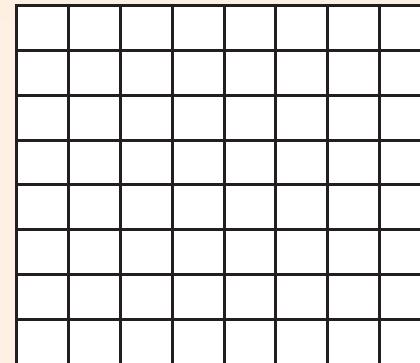
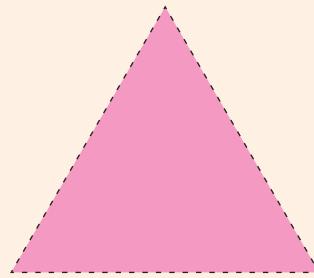
8

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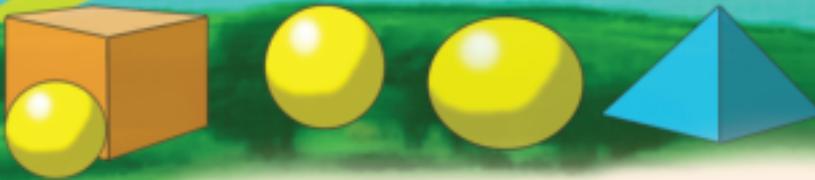
Zoba iimilo kwigridi.
Sebenzisa izikwere ezincinci zikuncede.



Teacher:
Sign:
Date:



110

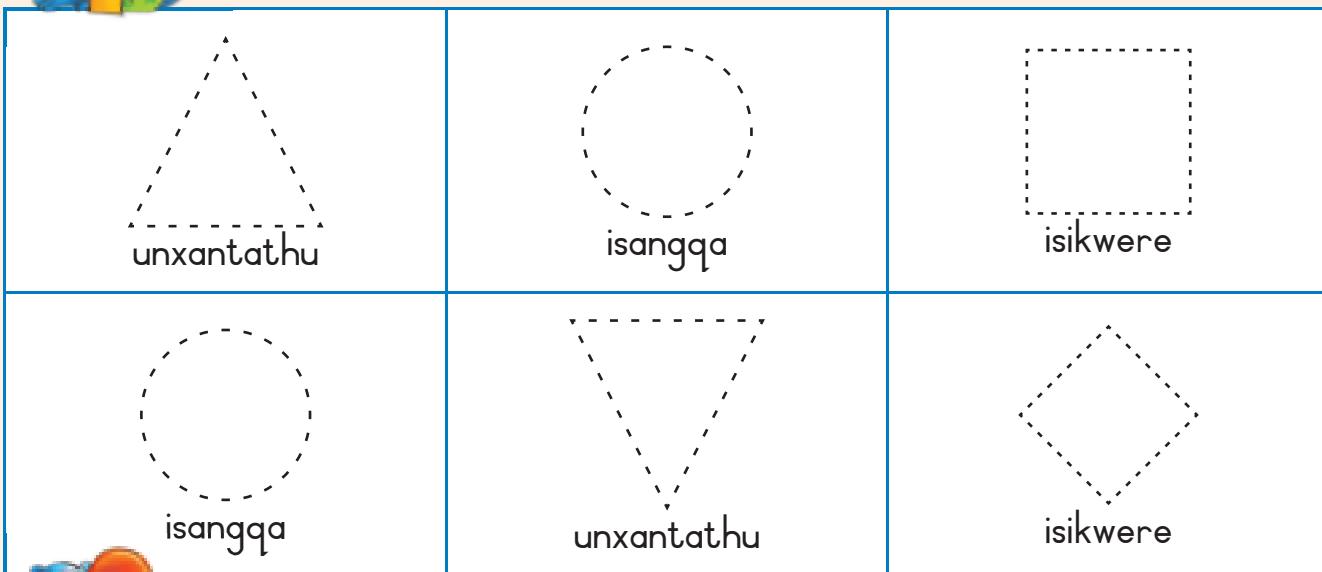


Iimilo ezi - 2D – amacala athe tye nangqukuva

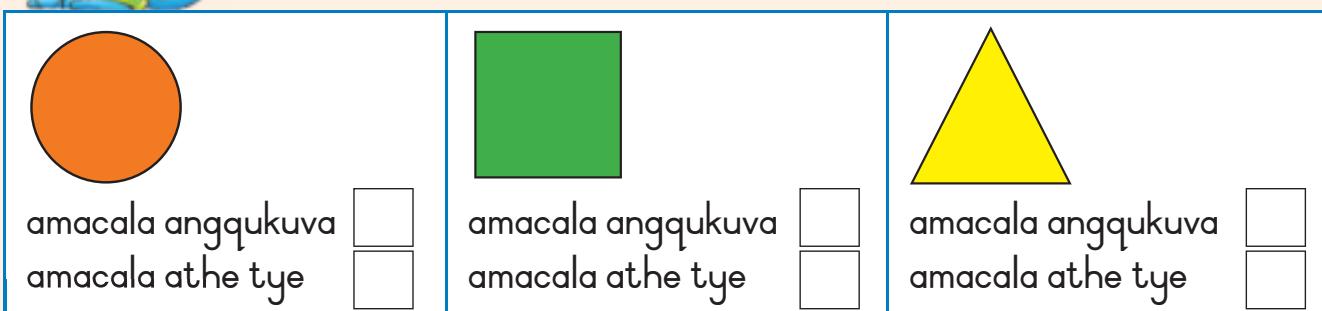
Ikota 4



Khuphela ezi milo zilandelayo.



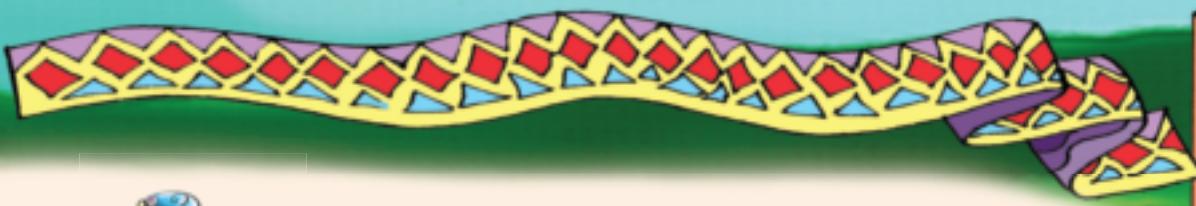
Phawula ubonise ukuba imilo inamacala athe tye okanye angqukuva.



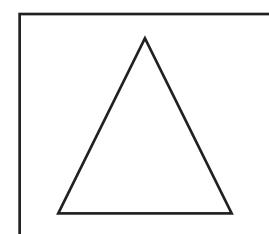
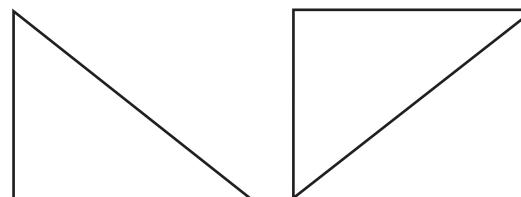
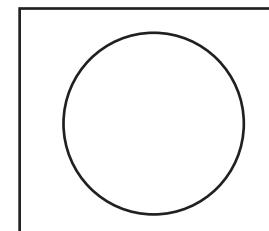
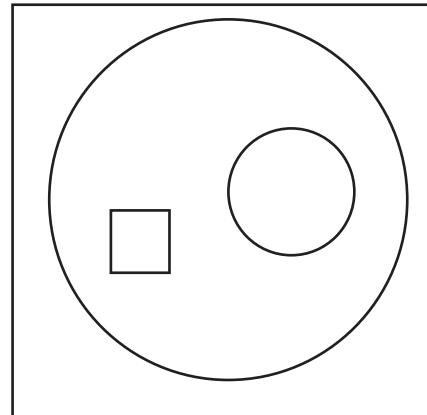
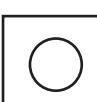
Zoba imilo enamacala:

athe tye	angqukuva
----------	-----------





Bala inani lezangqa, lezikwere neloonxantathu.



Izangqa

Izikwere

Oonxantathu



Funa kwimagazini umfanekiso onamacala:

angqukuva

athe tye



Teacher:
Sign:
Date:

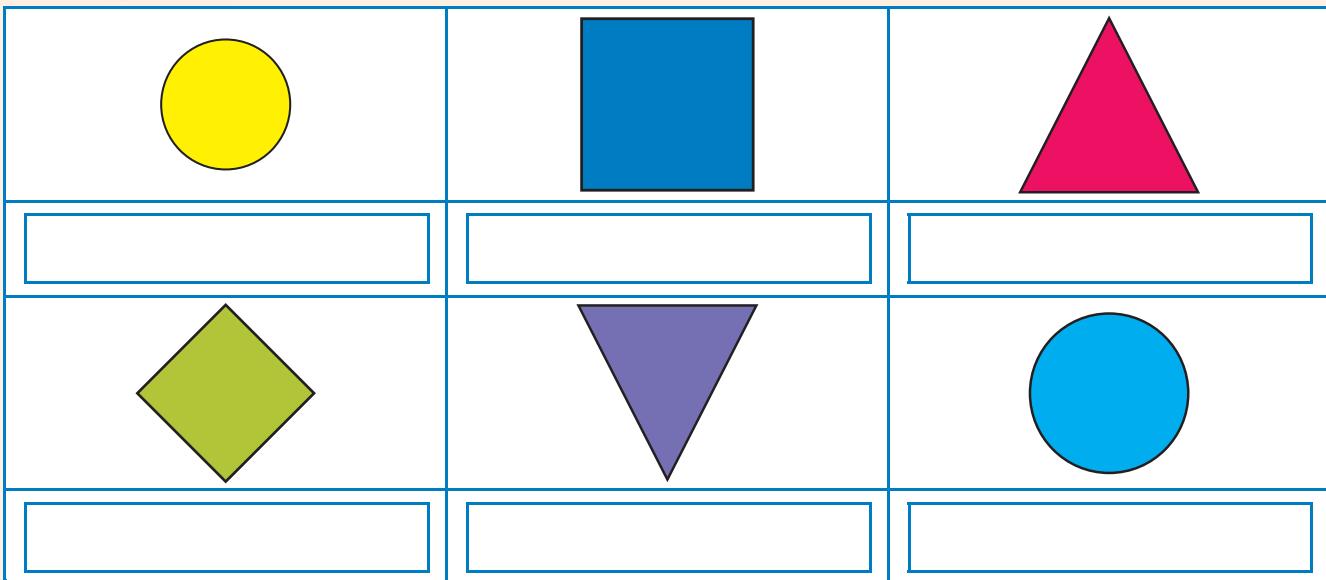




Ikota 4



Thiya ezi milo amagama:



Zoba owakho umfanekiso usebenzise izangqa, oonxantathu nezikwere.



94

0

1

2

3

4

5

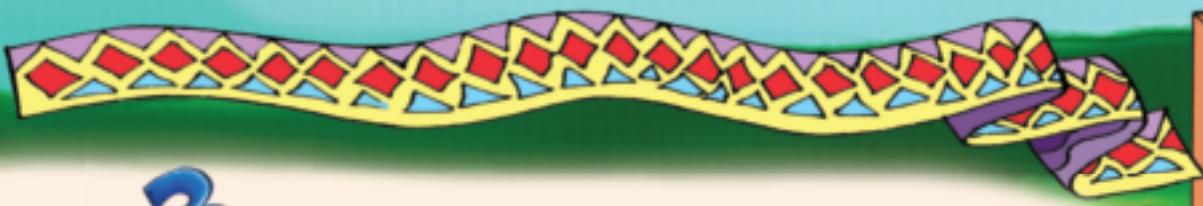
6

7

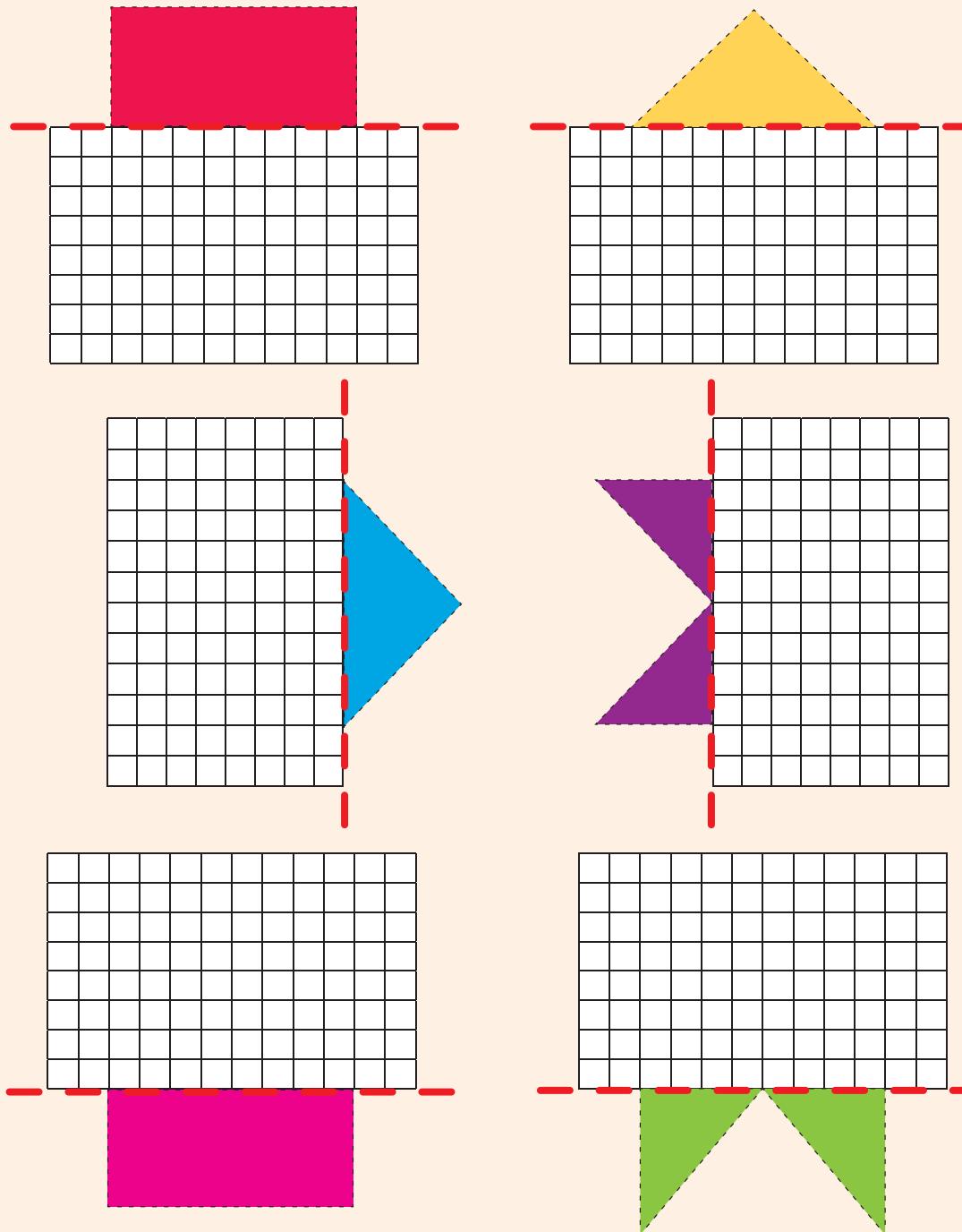
8

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Zoba icala elisisiqingatha semilo nganye.
Sebenzisa izikwere ezincinci zikuncede.



Zonke zinamacala athe tye angqukuva.



Teacher:

Sign:

Date:

112

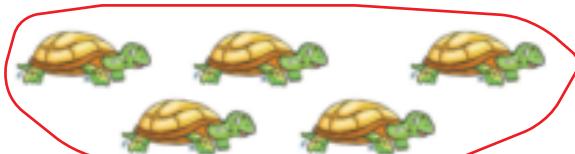
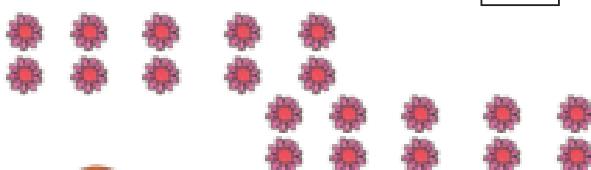


Amaqela ezihlanu ukuya kutsho kumashumi amabini

Ikota 4



Yenza izangqa ukuze wenze amaqela ezihlanu.
Mangaphi amaqela ezihlanu onawo?

iqela lesi - 5 eli - amaqela ezi - 5 ama - amaqela ezi - 5 ama - amaqela ezi - 5 ama - 

Bala inani leminwe. Bhala impendulo yakho.



$5 + 5 + 5 =$



$5 + 5 + 5 + 5 =$



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



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



0

2

3

4

5

6

7

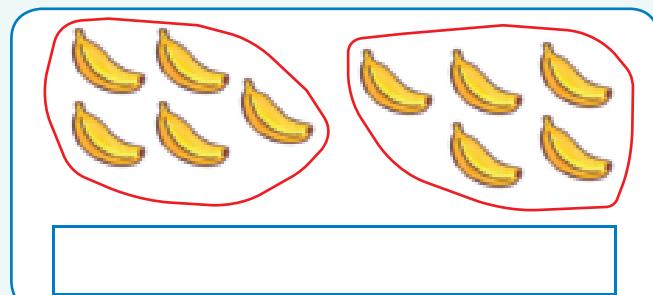
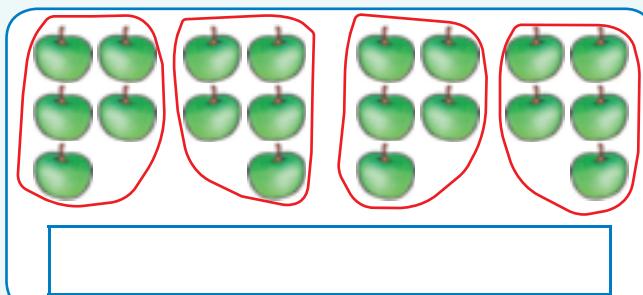
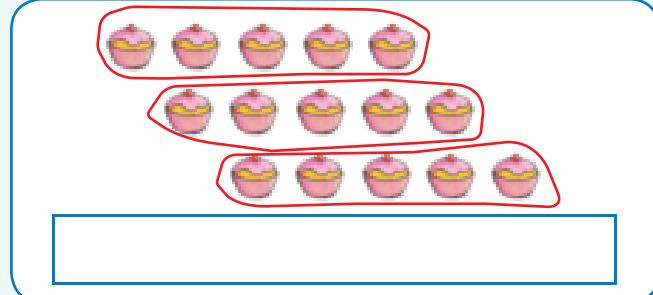
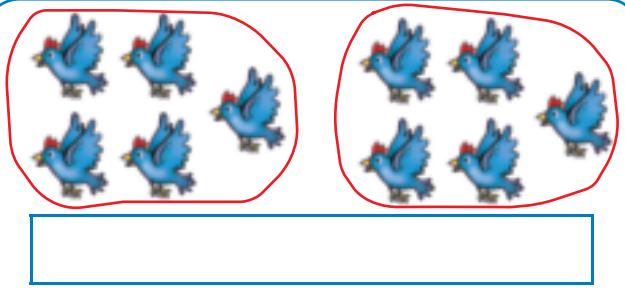
8

9

10



Bhala isivakalisi - manani kumfanekiso ngamnye:



Phendula imibuzo.



Zingaphi iingqekembe
zee - 5c ozibonayo?

Bhala isivakalisi - manani:

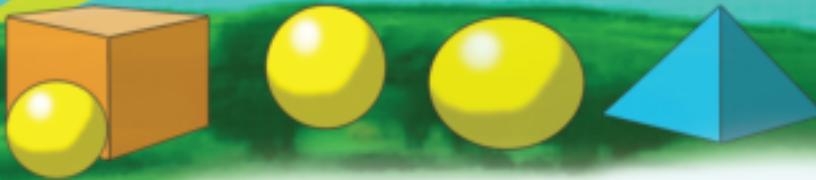


Bhala amanani ashijiweyo.

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



113

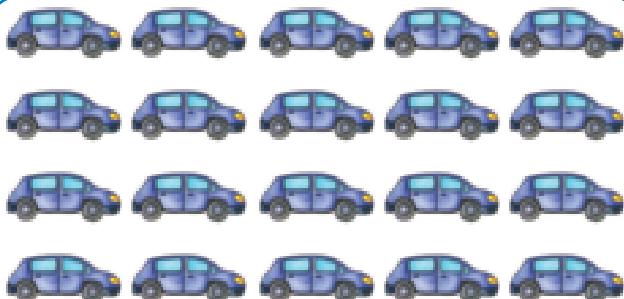
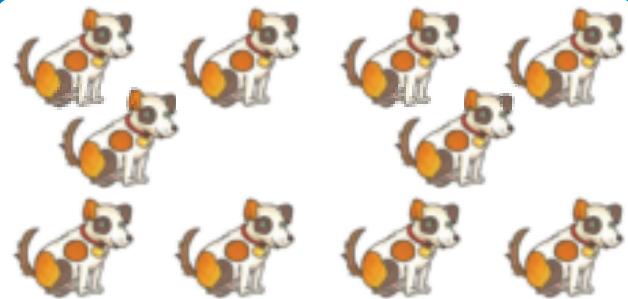


Ikota 4



Izihlanu – ukudibana okuphindiweyo ukuya kutsho kuma - 20

Yenza amaqela ezihlanu uze ubhale isivakalisi - manani.



Zoba amaqela eemilo ubonise isivakalisi - manani.

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

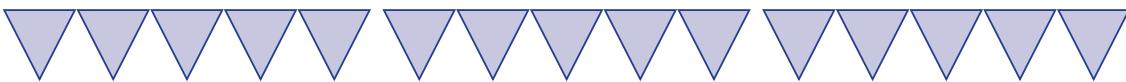
$$5 \quad + \quad 5 \quad + \quad 5 \quad + \quad 5 \quad = \quad \boxed{}$$



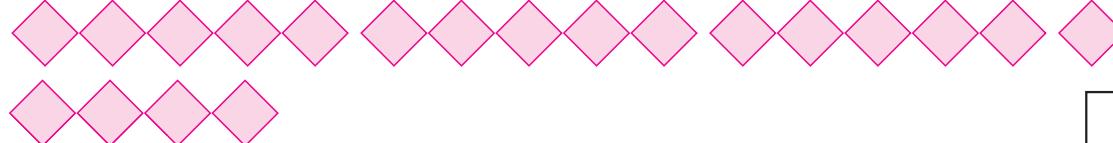
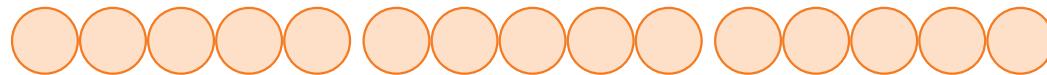
Bhala isivakalisi - manani kumfanekiso ngamnye:



5 + 5 =



A small, empty square box located at the bottom right corner of the page, likely intended for a teacher to grade the student's work.



A decorative footer element located at the bottom of the page. It features a blue pencil, a pink eraser, and a small blue flower on the left side, separated from a white rectangular box on the right by a thin blue horizontal line.



Uwabala kangaphi amanani amahlanu? _____

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



Kukho izandla ezithathu efesitileni. Mingaphi iminwe esefesitileni?

Zoba umfanekiso uze ubhale isivakalisi - manani.



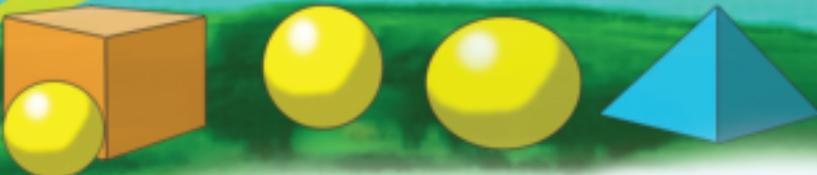
Teacher:

Sign:

Date:

A horizontal ruler scale with markings every millimeter. The numbers 11 through 20 are displayed above the scale, with each number having a vertical line below it corresponding to its position on the scale.

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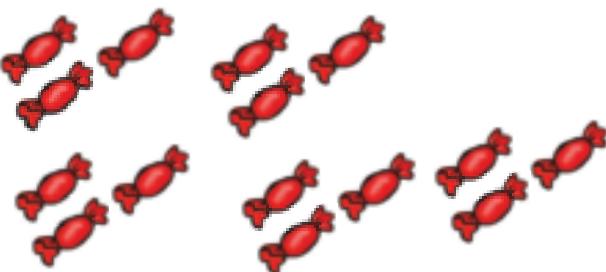


Ikota 4

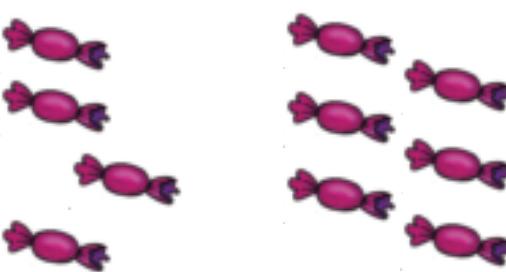


Yabela abahlobo abahlanu iilekese.

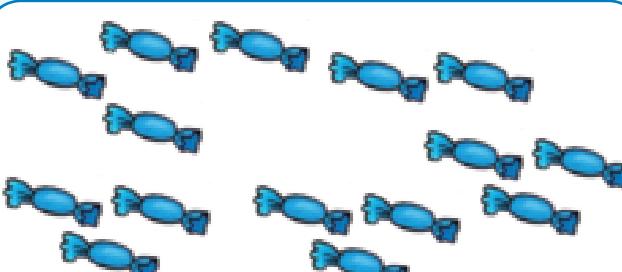
Uza kufumana iilekese ezingaphi emnye?



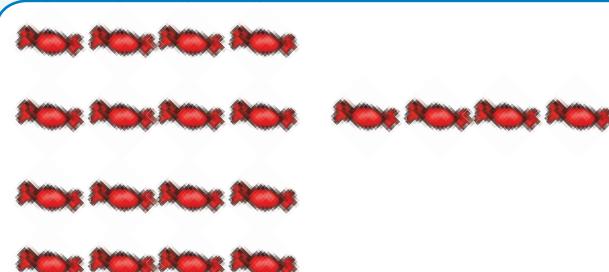
Umhlobo ngamnye uza kufumana
iilekese ezi



Umhlobo ngamnye uza kufumana
iilekese ezi



Umhlobo ngamnye uza kufumana
iilekese ezi



Umhlobo ngamnye uza kufumana
iilekese ezi

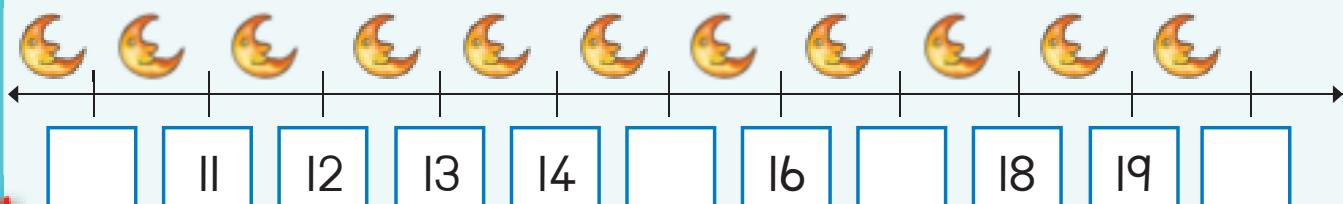


Faka umbala kwizophindwa zesi hlanu.

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



Bhala amanani angekhoyo.



0 | 2 3 4 5 6 7 8 9 10



Yenza umfanekiso ubonise oku kulandelayo.
Ingaba zikhona izibalisi ezishiyekileyo?



Yabela abantwana abahlanu izibalisi ezili -10.

Yabela abantwana abahlanu izibalisi ezi -6.

Kukho izibalisi ezi ezishiyekileyo.

Kukho isibalisi esi esishiyekileyo.

Yabela abantwana abahlanu izibalisi ezili -II.

Yabela abantwana abahlanu izibalisi ezili -I6.

Kukho isibalisi esi esishiyekileyo.

Kukho isibalisi esi esishiyekileyo.



Bhala isivakalisi - manani kumfanekiso ngamnye:



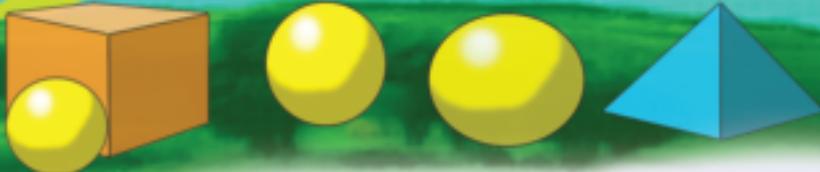
$$5 + 5 =$$



Teacher: _____
Sign: _____
Date: _____



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Ikota 4

Ipatheni zamanani – izihlanu ukuya kwi-100



Gqibezela ipatheni ngokufakela imibala kwiziphindwa zezihlanu.

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



Yenza izazinge ubonise oku:

86, 88, 90



70, 75, 80



55, 60, 65, 70



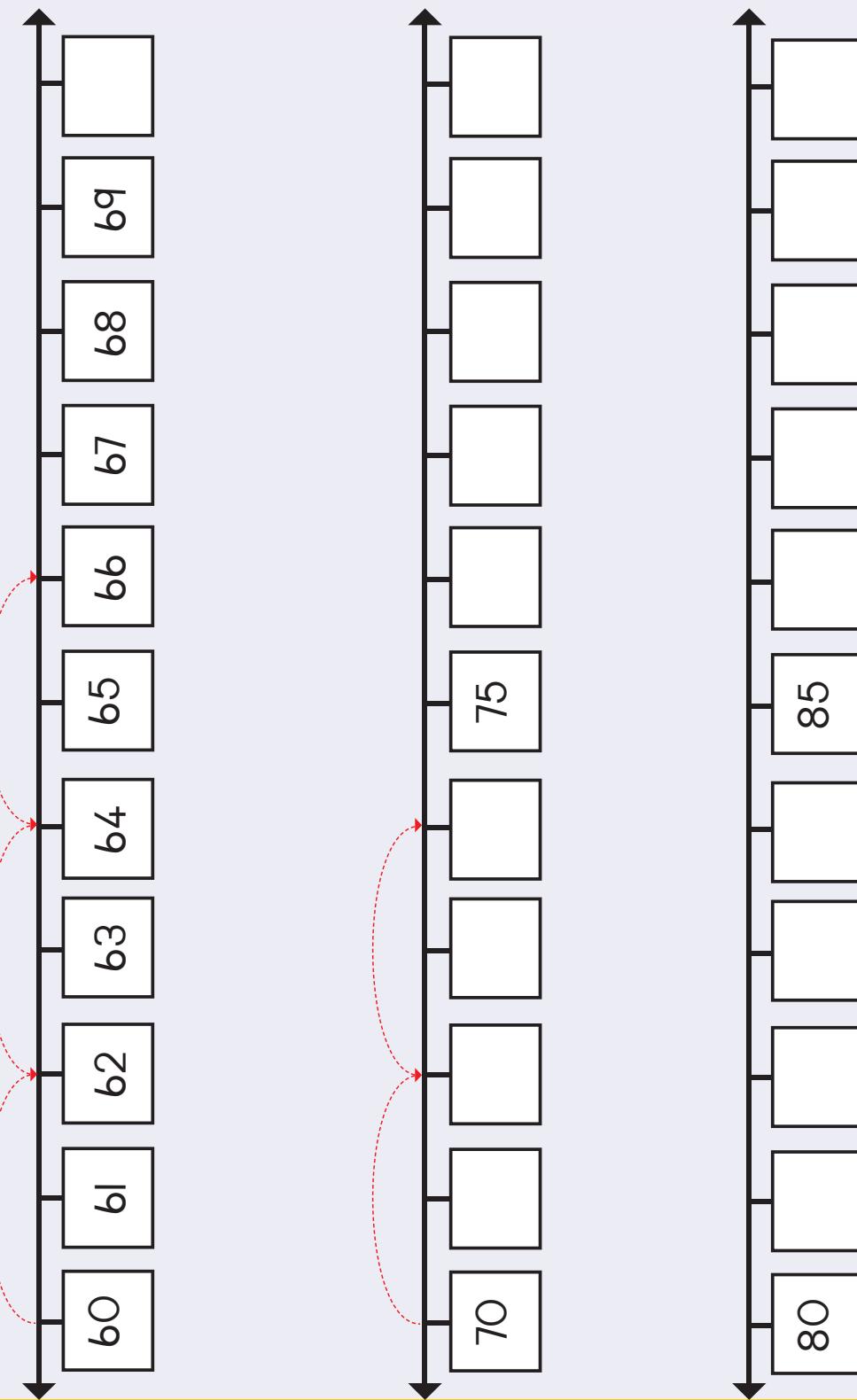
Sebenzisa iwotshi ubonise ukubala imizuzu ngezihlanu.



0 2 3 4 5 6 7 8 9 10



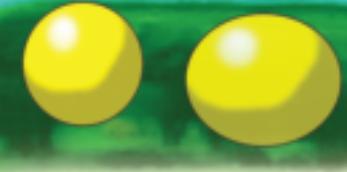
Faka amanani akuMsiko 2 kwizithuba ezinamanani
ashiyyiweyo kule migca - manani. Gqibezela izazinge.



11 12 13 14 15 16 17 18 19 20



116



Indawo nembonakalo

Ikota 4



Tshatisa umphambili
nomva wesilwanyana
ngasinye.

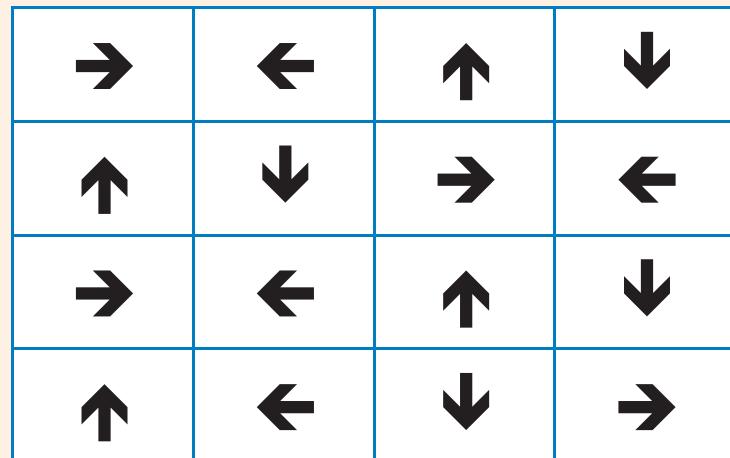
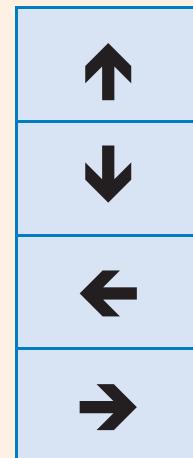
Umphambili



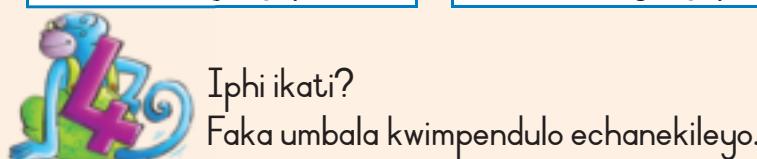
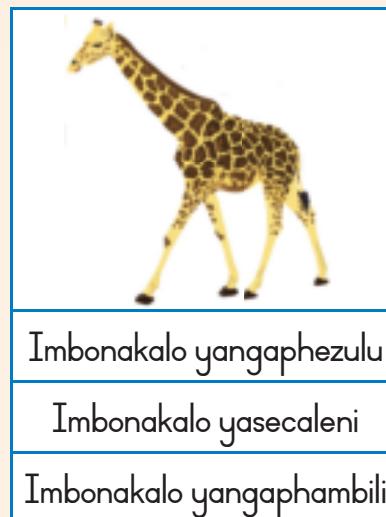
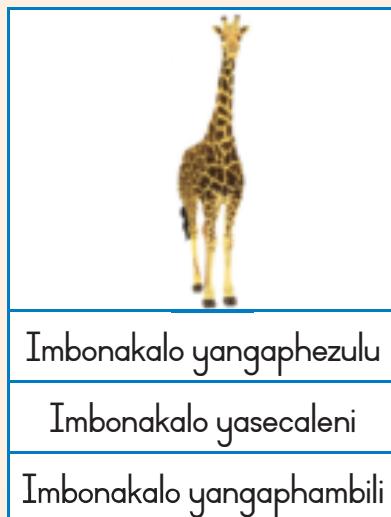
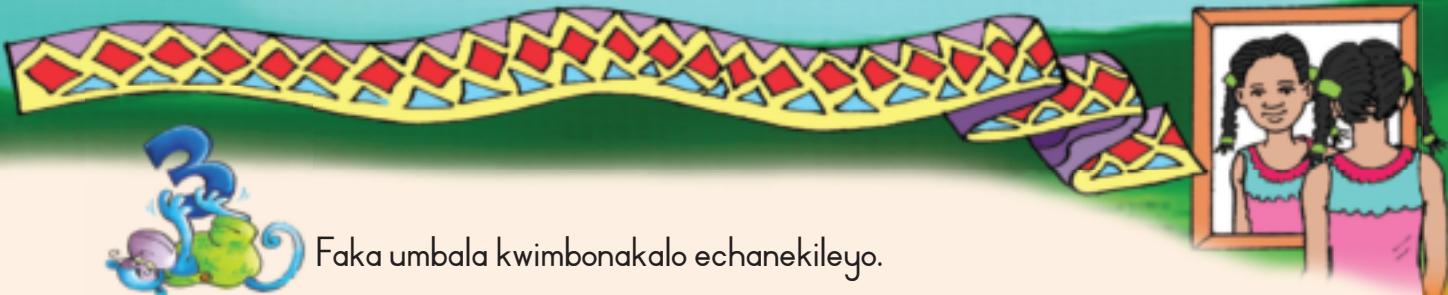
Umva



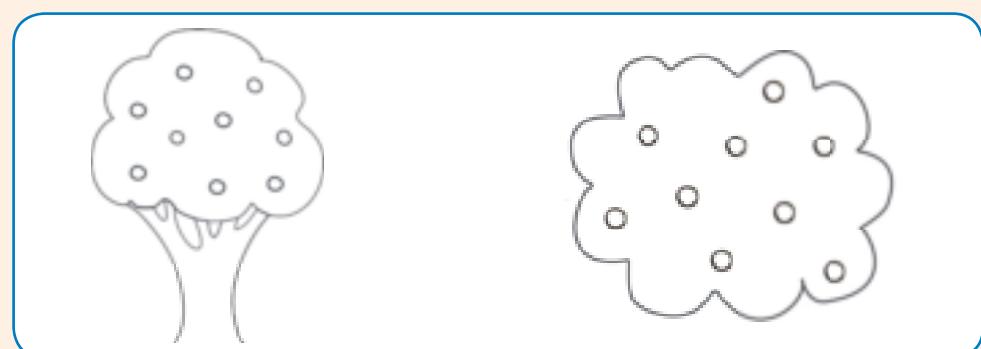
Biyela utolo
oluhambelana
notolo olunombala.



0 1 2 3 4 5 6 7 8 9 10



Jonga le mifanekiso
mibini. Faka umbala
kwimbonakalo
yangaphezulu.



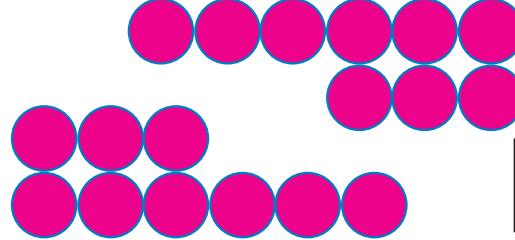
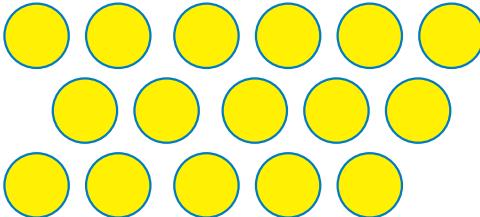
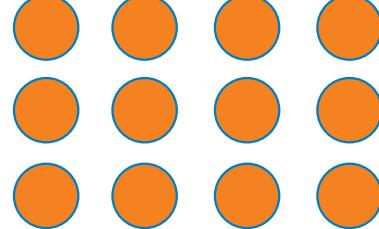
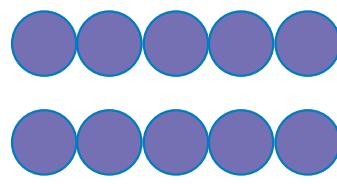
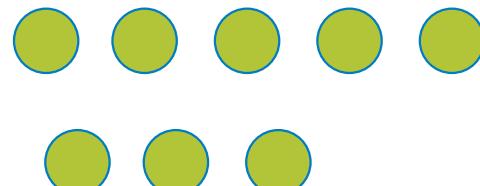
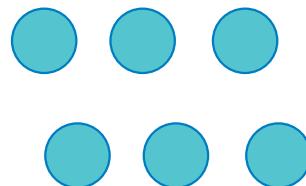
117



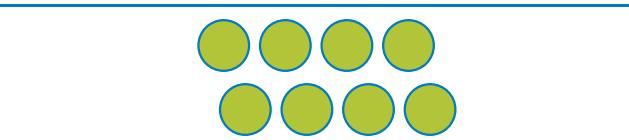
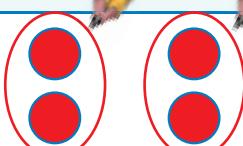
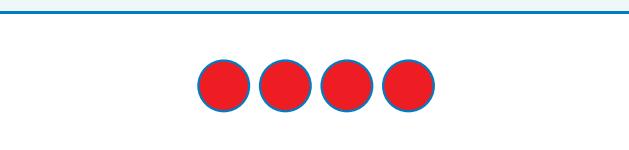
Ikota 4



Yenza amaqela ezibini. Bhala phantsi ukuba mangaphi na amaqela akhoyo.



Yenza amaqela ezibini. Wazobe la maqela.



106

0

1

2

3

4

5

6

7

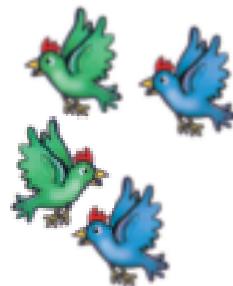
8

9

10



Phendula imibuzo.



Zingaphi iintaka ezikhoyo?

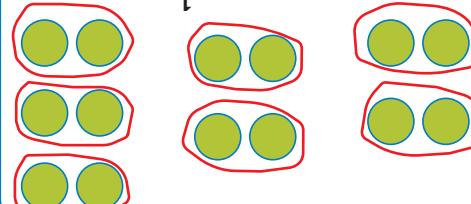
Mangaphi amaqela ezibini onokuwenza?

Bhala izivakalisi - manani.

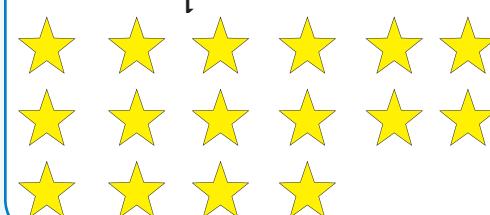


Biyela ngesangqa ukuze wenze oku.

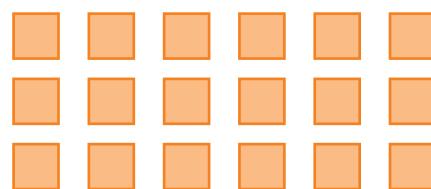
Amaqela ezi - 2 asi - 7



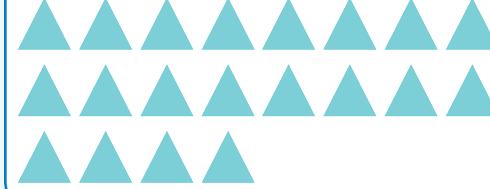
Amaqela ezi - 2 asi - 8



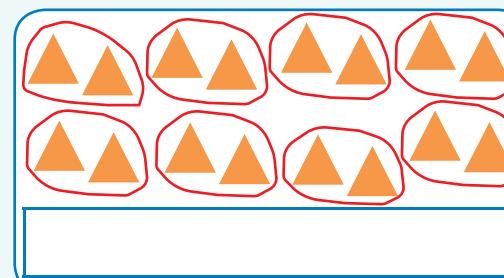
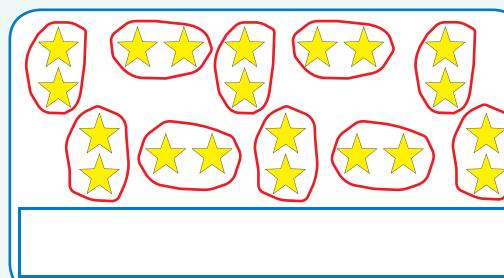
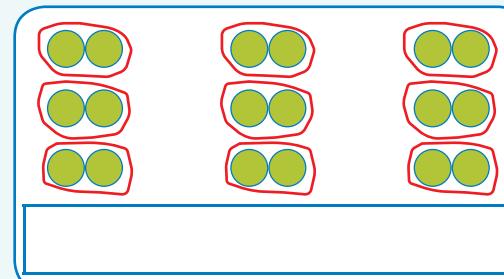
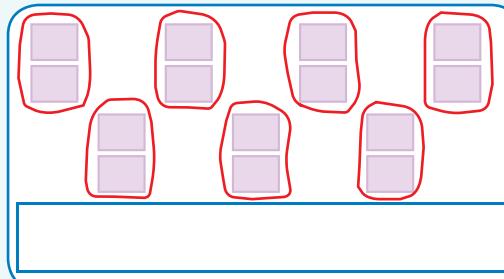
Amaqela ezi - 2 ali - 9



Amaqela ezi - 2 ali - 10



Bhala isivakalisi - manani kumfanekiso ngamnye.



11

12

13

14

15

16

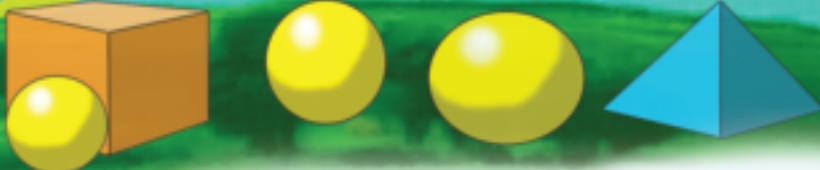
17

18

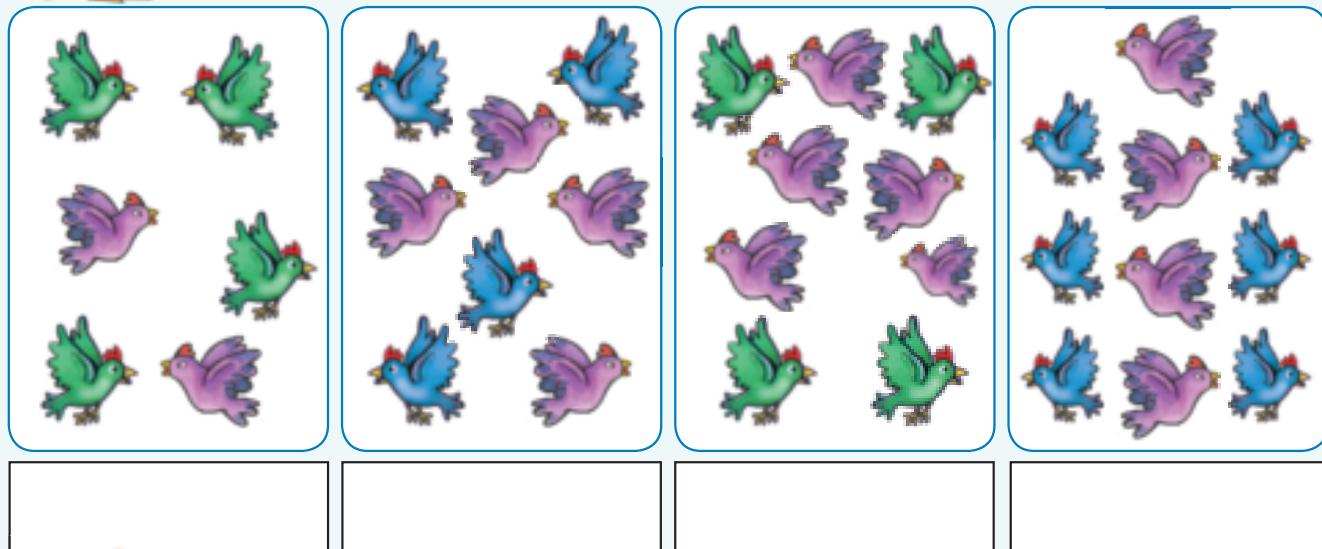
19

20

107



Mangaphi amanqina akhoyo? Bhala isivakalisi - manani kwibloko nganye.

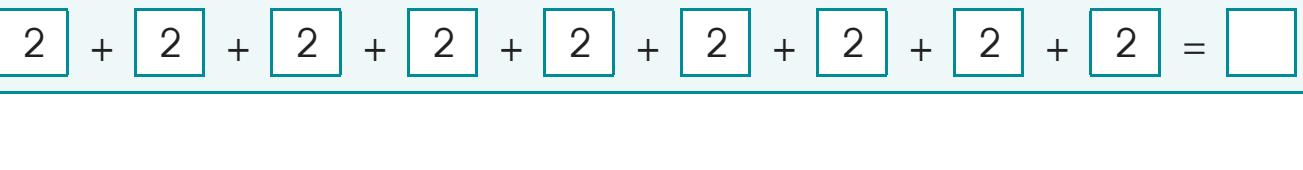


Zoba iimilo ezimele oku:

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



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

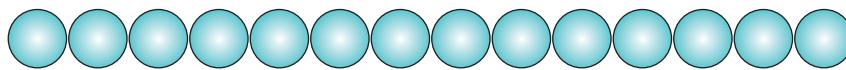


$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$

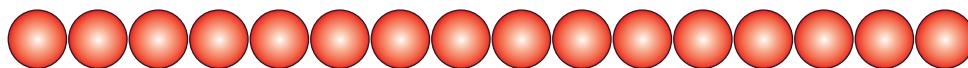


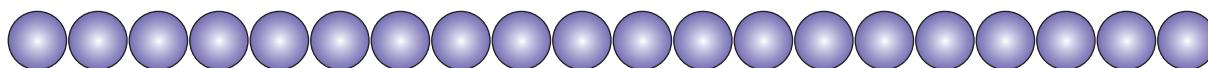


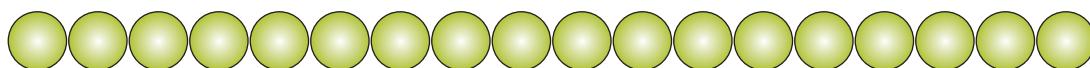
Bhala isivakalisi - manani kumfanekiso ngamnye:



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









Faka umbala
kwiziphindwa zesibini.

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



Ndineepakethe ezi - 6 ezineelekese ezimbini inye. Zingaphi iilekese endinazo?
Zoba umfanekiso uze ubhale isivakalisi - manani.

Ndineelekese ezi .



II I2 I3 I4 I5 I6 I7 I8 I9 20

||q



Ikota 4



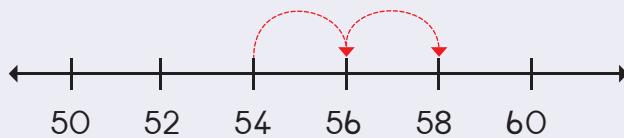
Gqibezela ipatheni ufakelé imibala kula manani.

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

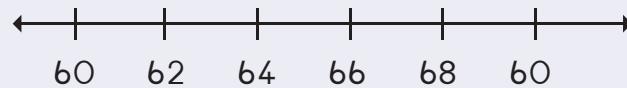


Yenza izazinge ubonise oku:

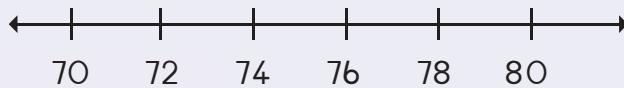
54, 56, 58



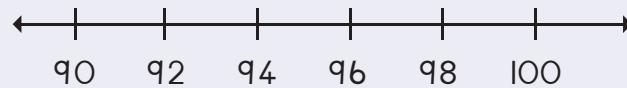
64, 66, 68



74, 76, 78



94, 96, 98

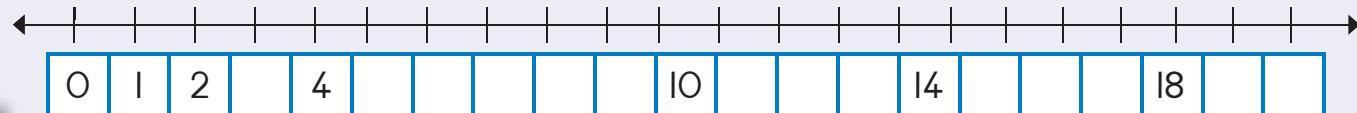


Fakela amanani ashijiyewo. Fakela umbala kule patheni: 2, 4...

I			3				7			10
II							17			20



Gqibezela umgca - manani.



0 1 2 3 4 5 6 7 8 9 10



Sika amanani kuMsiko 2 uze uwafake
kwimigca - manani endaweni yamanani ashiyiweyo.
Gqibezela izazinge.



|| 12 13 14 15 16 17 18 19 20



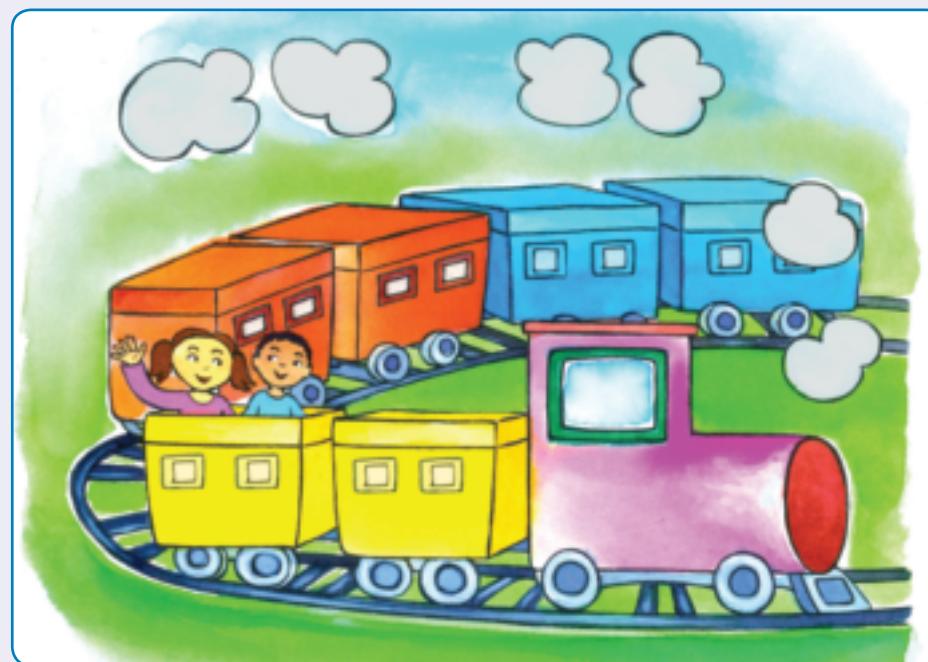
I20



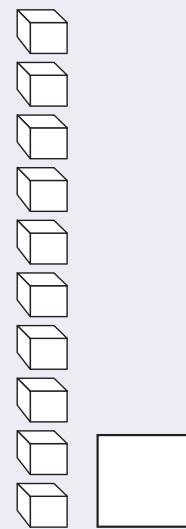
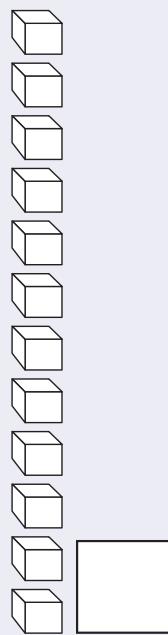
Ikota 4



Zikhona iipatheni zezibini ozibonayo?



Fakela umbala kwiibloko ubonise amaqela ezibini.
Bala ukuba mangaphi amaqela akhoyo.



O

1

2

3

4

5

6

7

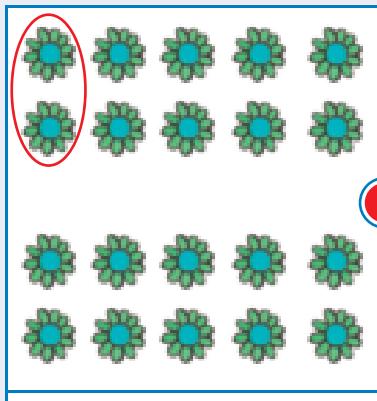
8

9

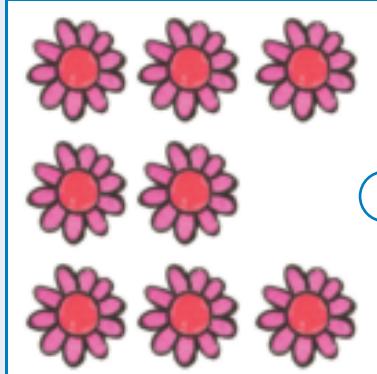
10



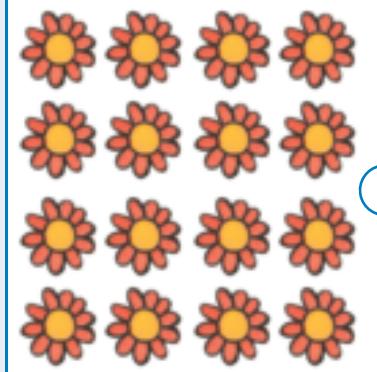
Krwela umgca utshatise amaqela ezibini
nezivakalisi - manani.



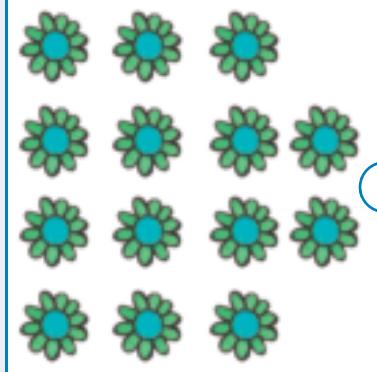
$$2 + 2 + 2 + 2 = 8$$



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



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



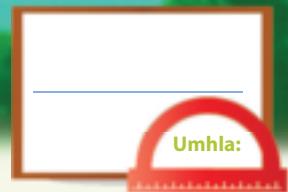
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$$



Teacher:
Sign:
Date:



I2I

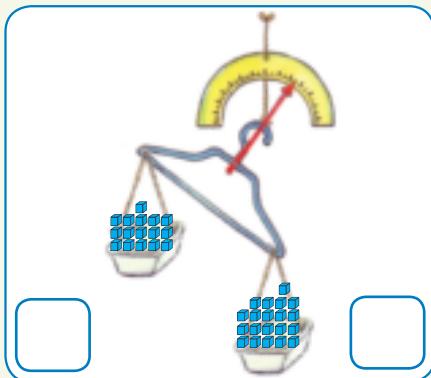
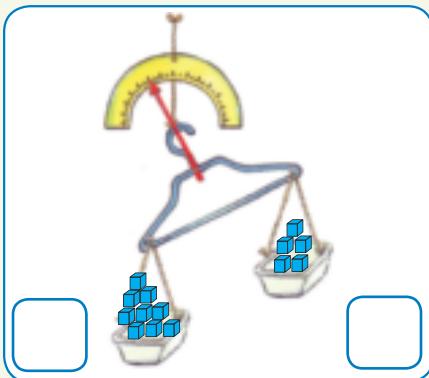
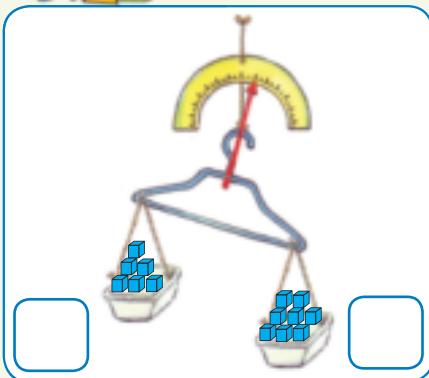


Ikota 4

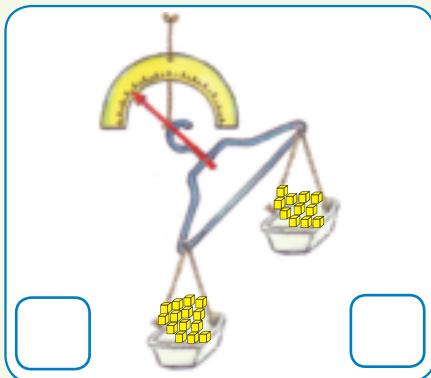
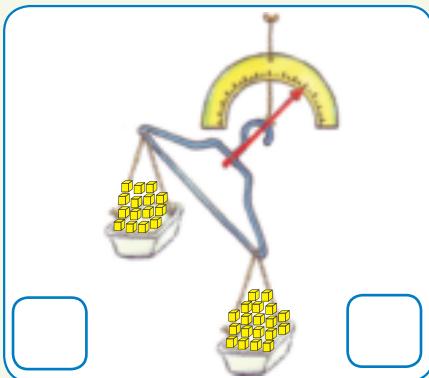
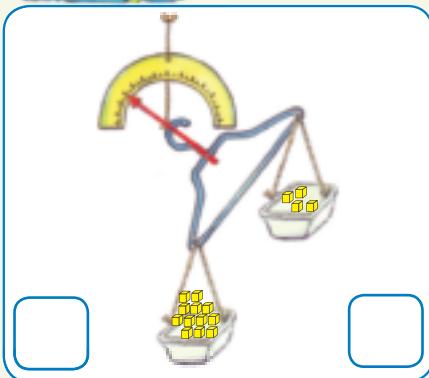
Ubunzima



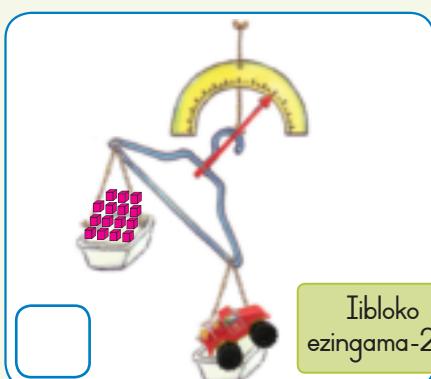
Bhala ukuba zingaphi iibloko ezikwisikhongozelo ngasinye.
Biyela isikhongozelo esinzima.



Bhala ukuba zingaphi iibloko ezikwisikhongozelo ngasinye.
Biyela isikhongozelo esikhaphu-khaphu.



Bala ukuba zingaphi na iibloko. Bala ukuba zingaphi iibloko ezingaphezulu
ezifunekayo ukuze kulinganiswe ithoyi. Isikali siyakuxelela ukuba ithoyi
inobunzima obungakanani.



14

0

1

2

3

4

5

6

7

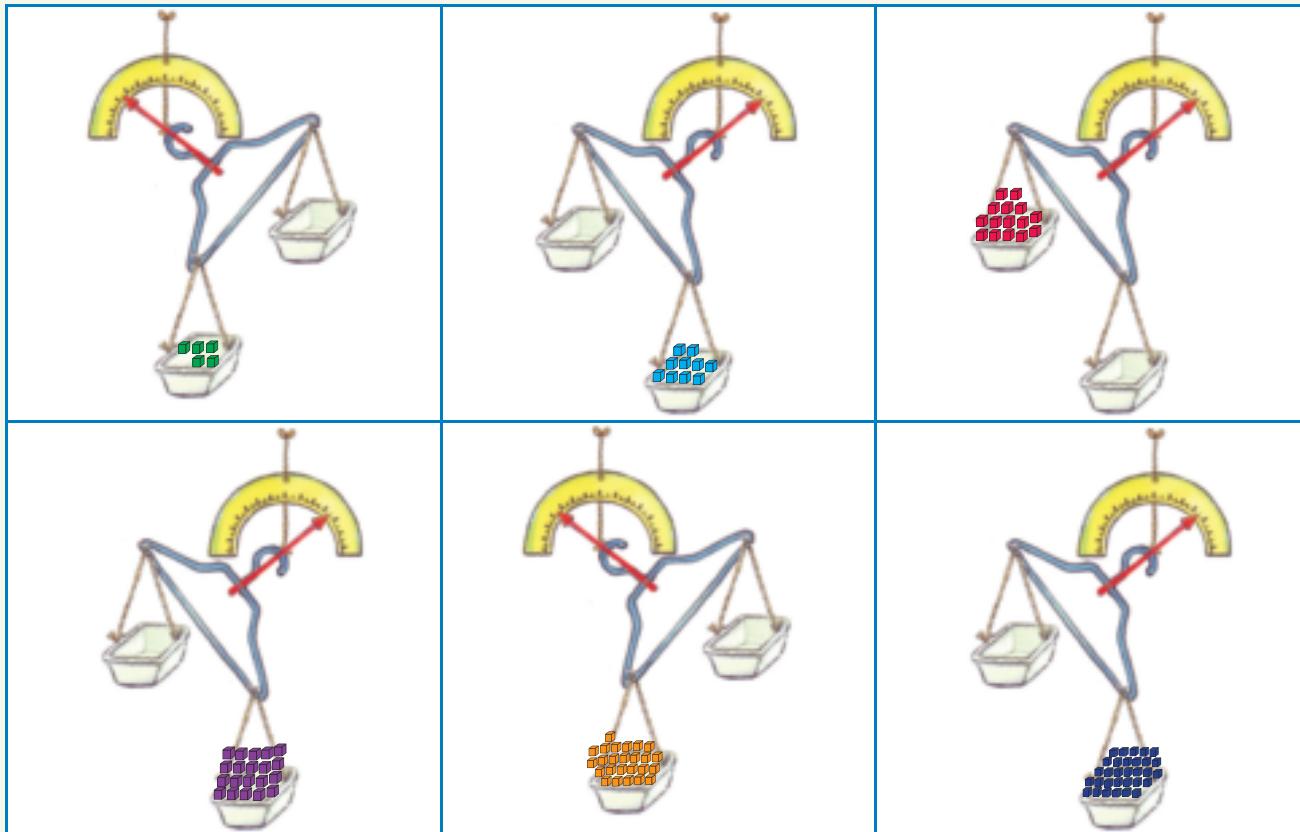
8

9

10



Zoba into enzima okanye ekhaphu-khaphu kuneebloko.

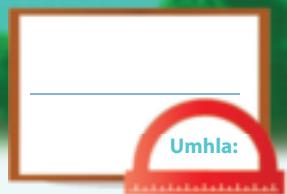


Sebenzisa naziphi na izinto ezintlanu ezisedesikeni yakho. Qala uqikelele ukuba inobunzima obungakanani uze wakuggiba uyilinganise esikalini ukhangele ukuba ingaba ingqikelelo yakho ichanekile na.

Zoba le nto	Qikelela	Ubunzima	Umhluko
	ziibloko ezi _____	ziibloko ezi _____	_____ - _____ = _____



I22



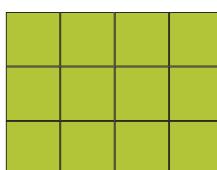
Ikota 4

Ukuphinda kabini



Phendula oku kulandelayo:

Zingaphi izikwere ezikhoyo?



Zingaphi ezikhoyo ngoku?



Sithi i-12 eliphindwe kabini lenza ama -24.

Mingaphi imilenze ekhoyo?

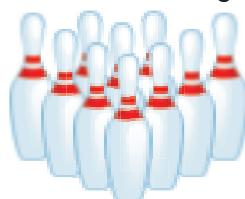


Mingaphi imilenze ekhoyo ngoku?

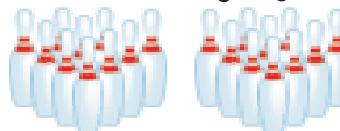


Sithi isi -6 esiphindwe kabini silingana ne

Bangaphi oothinti abakhoyo?



Bangaphi oothinti abakhoyo ngoku?



Sithi i-10 eliphindwe kabini lenza

Zingaphi iiantsuku ezenza iveki?

C	Mv	Lb	Lt	Ln	Lhl	Mgq

Zingaphi iiantsuku ezikwiiveki ezimbini?

C	Mv	Lb	Lt	Ln	Lhl	Mgq

Sithi isi -7 esiphindwe kabini senza

Zingaphi iikhrayoni ezikhoyo?



Zingaphi iikhrayoni ezikhoyo ngoku?



Sithi isi -8 esiphindwe kabini senza



116

0

1

2

3

4

5

6

7

8

9

10



Bhala
impendulo.

Isi-4 esiphindwe kabini	=	8
i-10 eliphindwe kabini	=	
i-11 eliphindwe kabini	=	
Isi-2 esiphindwe	=	
Isi-6 esiphindwe kabini	=	



Bhala impendulo:

Isibini esiphindwe kabini senza	isine
Isithathu esiphindwe kabini senza	
Isine esiphindwe kane senza	
Isihlanu esiphindwe kabini senza	
Isithandathu esiphiwe kabini senza	
Isixhenxe esiphindwe kabini senza	



Gqibezela itheyibhile

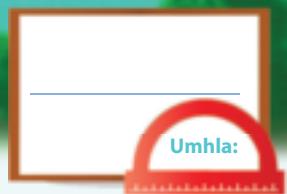
$9 + 9 + 1 =$	<input type="text"/>	okanye	Phinda kabini i-9 + 1 =	<input type="text"/>
	<input type="text"/>	okanye	Phinda kabini i-8 + 1 =	<input type="text"/>
$10 + 10 + 1 =$	<input type="text"/>	okanye		<input type="text"/>
$7 + 7 + 1 =$	<input type="text"/>	okanye	Phinda kabini i-7 + 1 =	<input type="text"/>



Teacher:
Sign:
Date:



I23



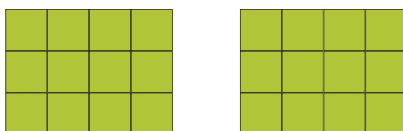
Ikota 4

Ukwahlula kubini

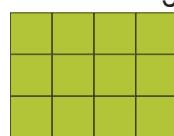


Phendula oku kulandelayo:

Zingaphi izikwere ezikhoyo?



Zingaphi izikwere ezikhoyo ngoku?



Sithi isiqingatha sama - 24 li - 12.

Mingaphi imilenze ekhoyo?

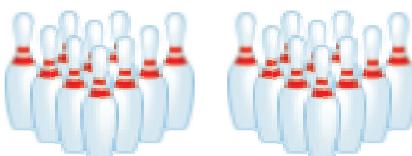


Mingaphi imilenze ekhoyo ngoku?



Sithi isiqingatha se - 12 sisi -

Bangaphi oothinti abakhoyo?



Bangaphi oothinti abakhoyo ngoku?



Sithi isiqingatha sama - 20 li -

Zingaphi iintsuku kwiiveki ezi - 2?

C	Mv	Lb	Lt	Ln	Lhl	Mgq
C	Mv	Lb	Lt	Ln	Lhl	Mgq

Zingaphi iintsuku kwiveki enye?

C	Mv	Lb	Lt	Ln	Lhl	Mgq

Sithi isiqingatha se - 14 sisi -

Zingaphi iikhrayoni ezikhoyo?



Zingaphi iikhrayoni ezikhoyo ngoku?



Sithi isiqingatha se - 16 sisi -



118

0 1 2 3 4 5 6 7 8 9 10



Bhala
impendulo.

Isiqingatha sesi-8	=	4
Isiqingatha se-10	=	
Isiqingatha sesi-6	=	
Isiqingatha se-12	=	
Isiqingatha se-14	=	



Bhala impendulo.

Isiqingatha sesi ne sisi-	bini
Isiqingatha se sithandathu sisi-	
Isiqingatha se sibini ngu-	
Isiqingatha se sibhozo sisi-	
Isiqingatha se shumi sisi-	



Bhala impendulo.

Isiqingatha se-10 sisi-	5
Isiqingatha se-12 sisi-	
Isiqingatha se-14 sisi-	
Isiqingatha se-16 sisi-	
Isiqingatha se-18 li-	



Teacher:
Sign:
Date:



I24

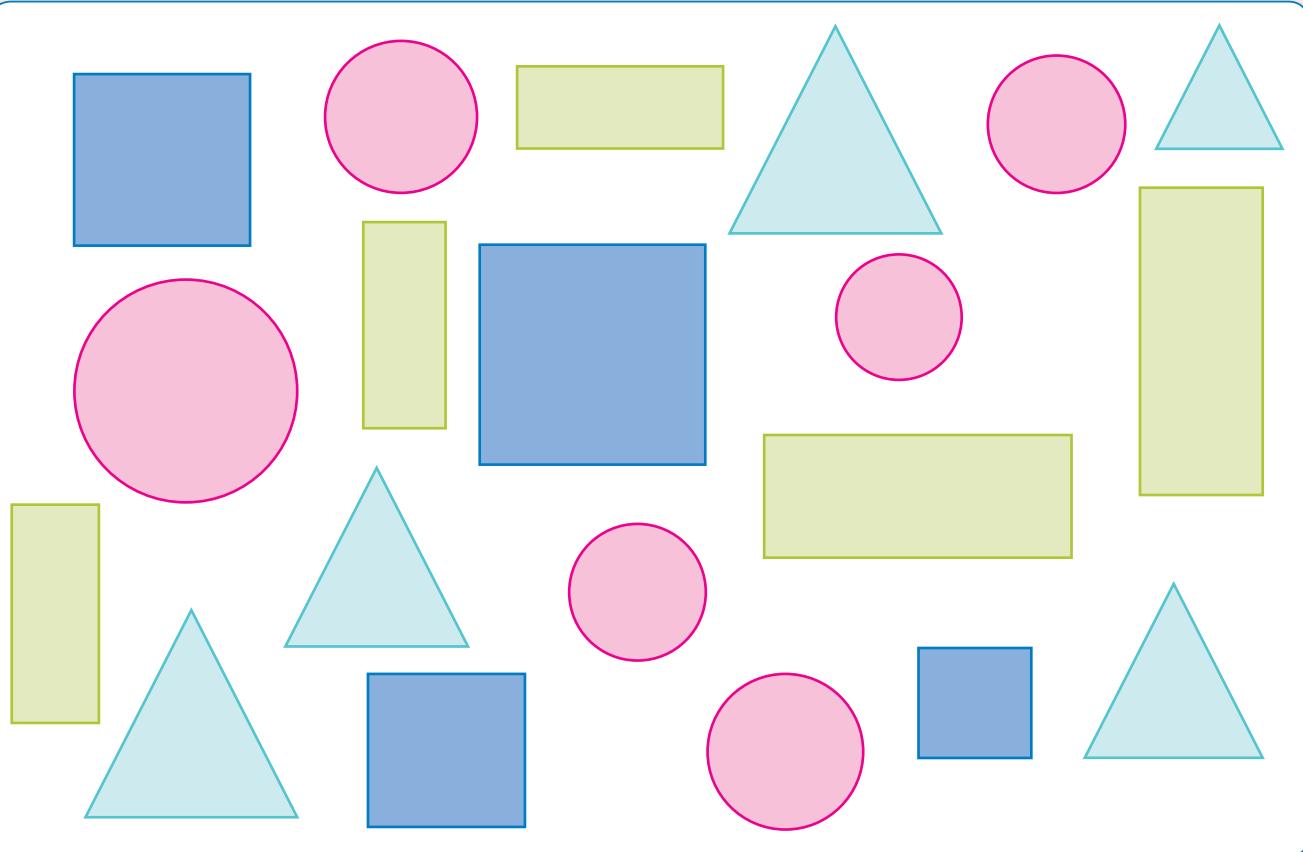


Ikota 4



Bala ukuba zingaphi iimilo ezahlukeneyo ezikhoyo wandle ukuphendula imibuzo.

Inkcukacha



1. Zingaphi izikwere ezikhoyo?



2. Bangaphi oonxantathu abakhoyo?

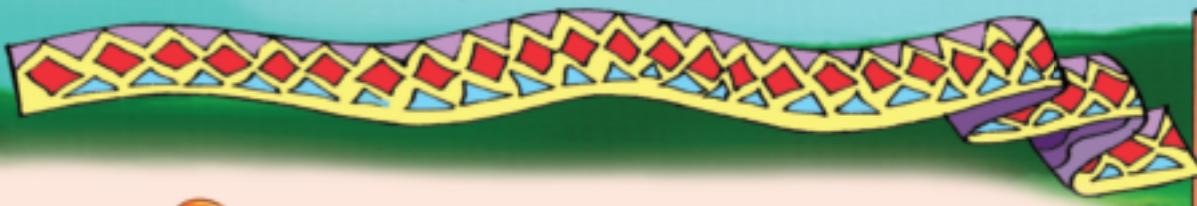


3. Zingaphi iingxande ezikhoyo?

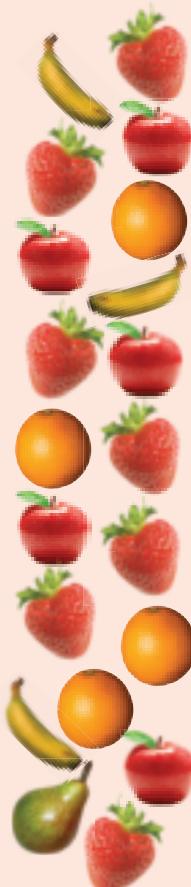


4. Zingaphi izangqa ezikhoyo?





Ezi ziqhamo zikhethwe ngabahlobo bakho abangama-20.
Khawuzihlele uze uzobe kwigrafu yemifanekiso iziqhamo
ozihlelileyo wandule ukuphendula imibuzo engezantsi.



Iziqhamo esizithandayo?

Isikhokelo =

Amaqunube	Ama-apile	Amapere	Iibhanana	Ii-orenji

Bangaphi abantwana abathanda amaqunube?	
Bangaphi abantwana abathanda ama-apile?	
Bangaphi abantwana abathanda amapere?	
Bangaphi abantwana abathanda iibhanana?	
Bangaphi abantwana abathanda ii-orenji?	
Sesiphi isiqhamo esithandwa kakhulu ngabantwana?	
Sesiphi isiqhamo esingathandwa kakhulu ngabantwana?	



I25



Ezinye iinkcukacha

Ikota 4



Abantwana abaseklasini banezi thoyi zokudlala zilandelayo.
Umntwana ngamnye unezingaphi kuhlobo ngalunye?

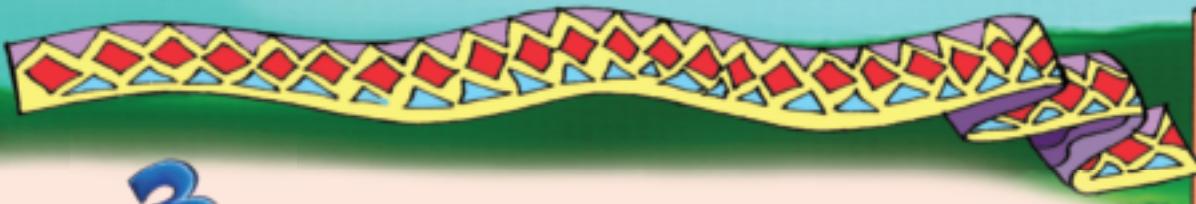


Gqibezela itheyibhile.

Ithoyi	Inani
Oonopopi	
Iitrakha	
Oobherana	
Iirobhothi	

I22

0 1 2 3 4 5 6 7 8 9 10

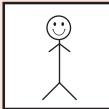


Gqibezela le grafu yemifanekiso ngokuthi uzobe inani elichanekileyo lemifanekiso yomntu wezinti kuhlobo ngalunye lwethoyi.



Iithoyi esinazo

Isikhokelo =



Oonopopi	Iitrakha	Oobherana	Iirobhothi



Phendula le mibuzo. Jonga kwigrafu yemifanekiso ikuncede.

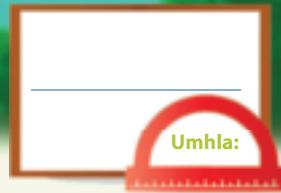
Bangaphi abantwana abanoonopopi?	
Bangaphi abantwana abaneetrakha?	
Bangaphi abantwana abanoobherana?	
Bangaphi abantwana abaneerobhotti?	
Yeyiphi ithoyi ethandwa kakhulu?	
Yeyiphi ithoyi engathandwa kakhulu?	



Teacher:
Sign:

Date:

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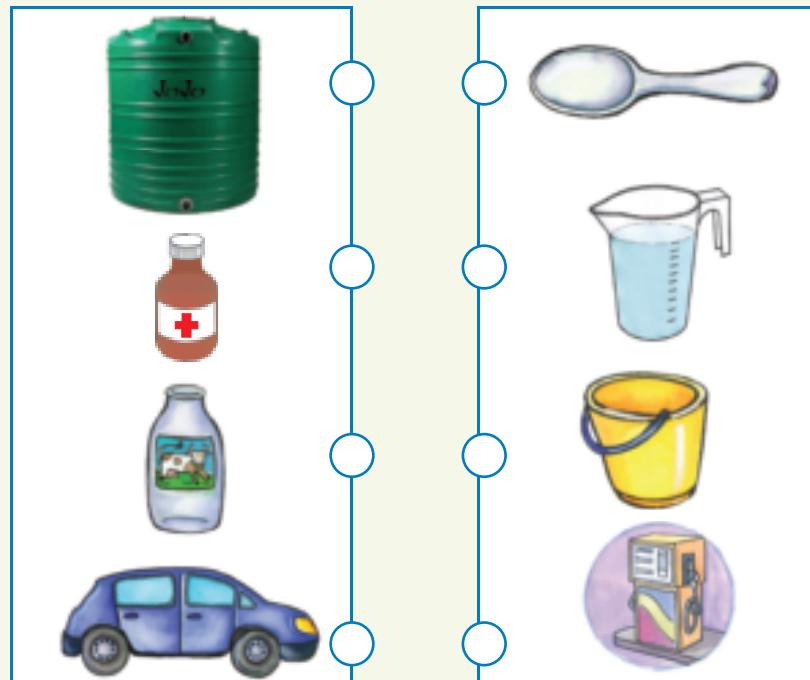


Ikota 4

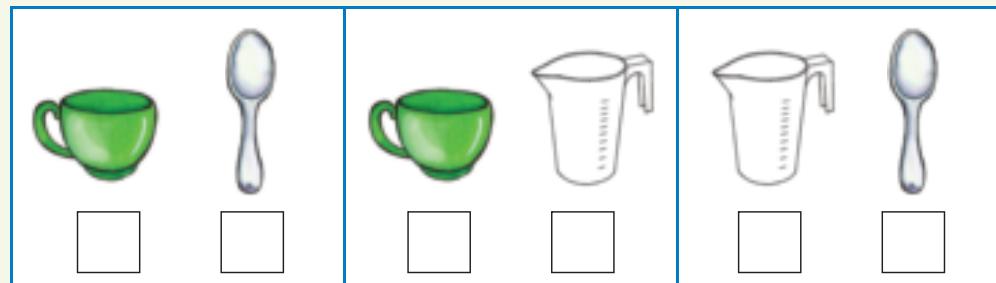


Silulinganisa njani ulwelo?
Krewla umgca utshatise into
kunye nesixhobo sokuyilinganisa.

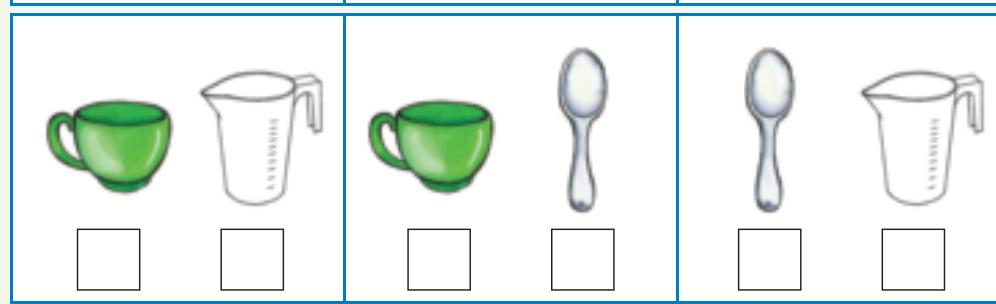
Umthamo



Phawula isikhongozelo
esiya kuthatha
umthamo omncinci.



Phawula isikhongozelo
esiya kuthatha
umthamo omnini.



Ingaba ezi zikhongozelo
zizele okanye azinanto?



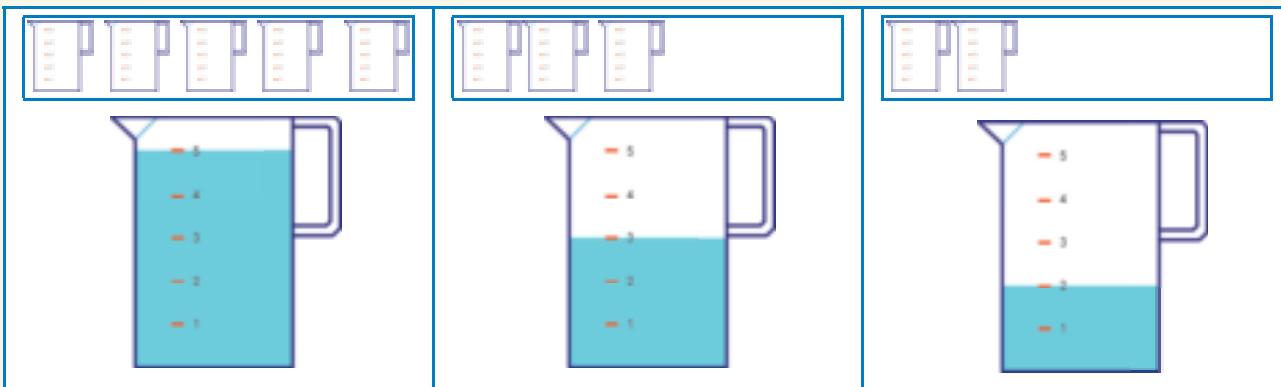
124

0 1 2 3 4 5 6 7 8 9 10



Kufuneka ndibe neekomityi ezintlanu ukuze ndizalise ijagi.

Kufuneka ndibe neekomityi ezingaphi ngaphezulu ukuze ndizalise ijagi ezimbini? Zizobe.



Faka umbala ubonise umthamo ochanekileyo wolwelo.

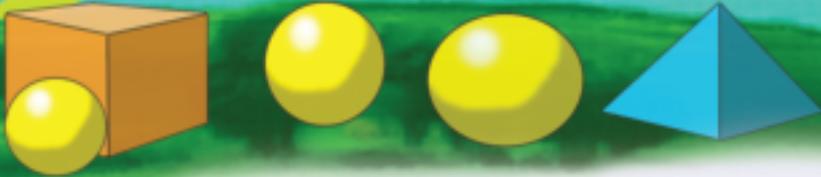
	+		$=$	<input type="text"/>
	+		$=$	<input type="text"/>
	+		$=$	<input type="text"/>



Teacher:
Sign:
Date:



I27

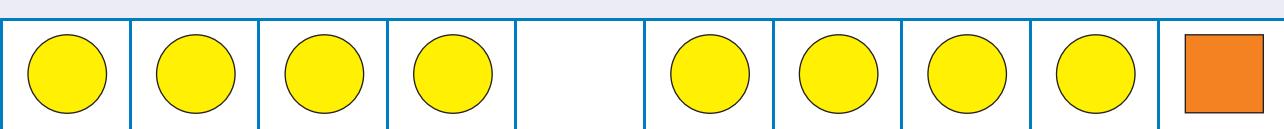
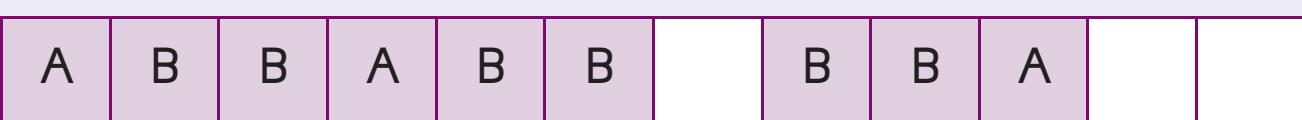
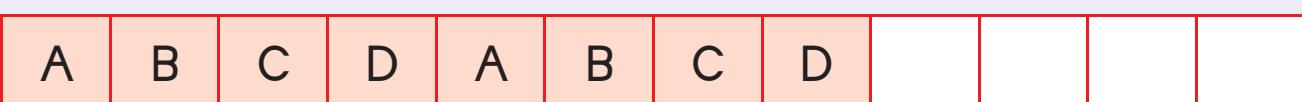
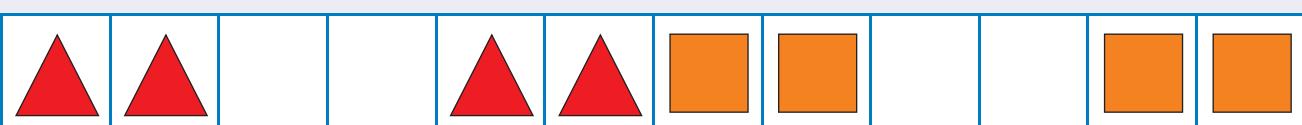
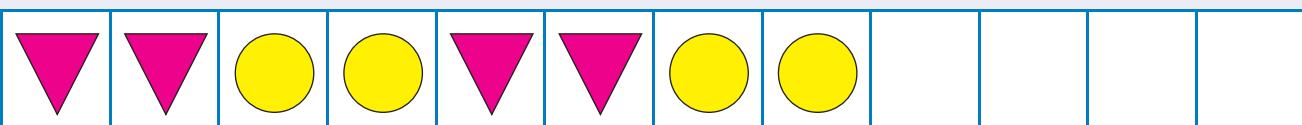
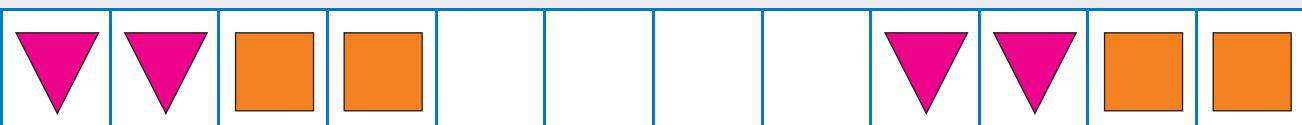
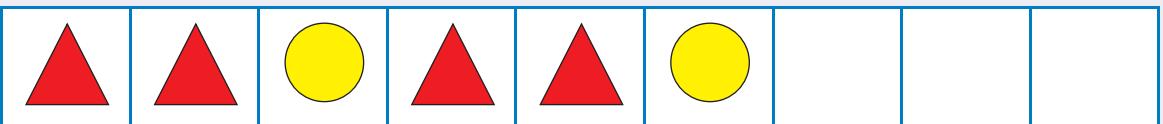


Iipatheni zejometri



Gqibezela iipatheni.

Ikota 4

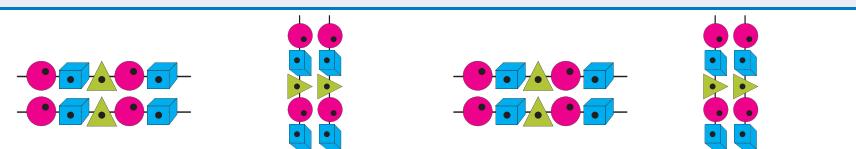
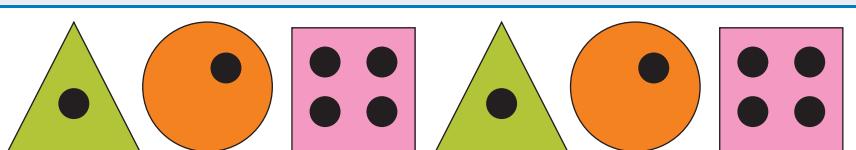
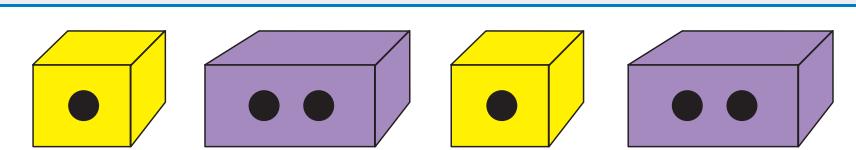
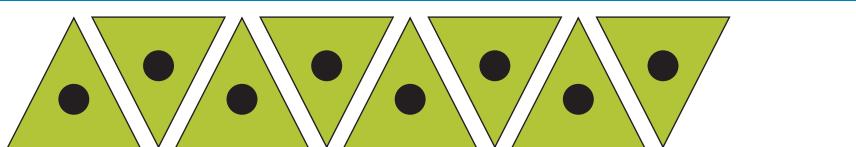


I26

0 1 2 3 4 5 6 7 8 9 10



Yandisa iipatheni.



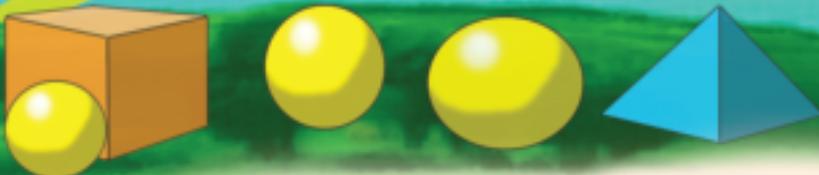
Zenzele ezakho iipatheni usebenzise izangqa, izikwere noonxantathu.



Teacher: _____
Sign: _____
Date: _____



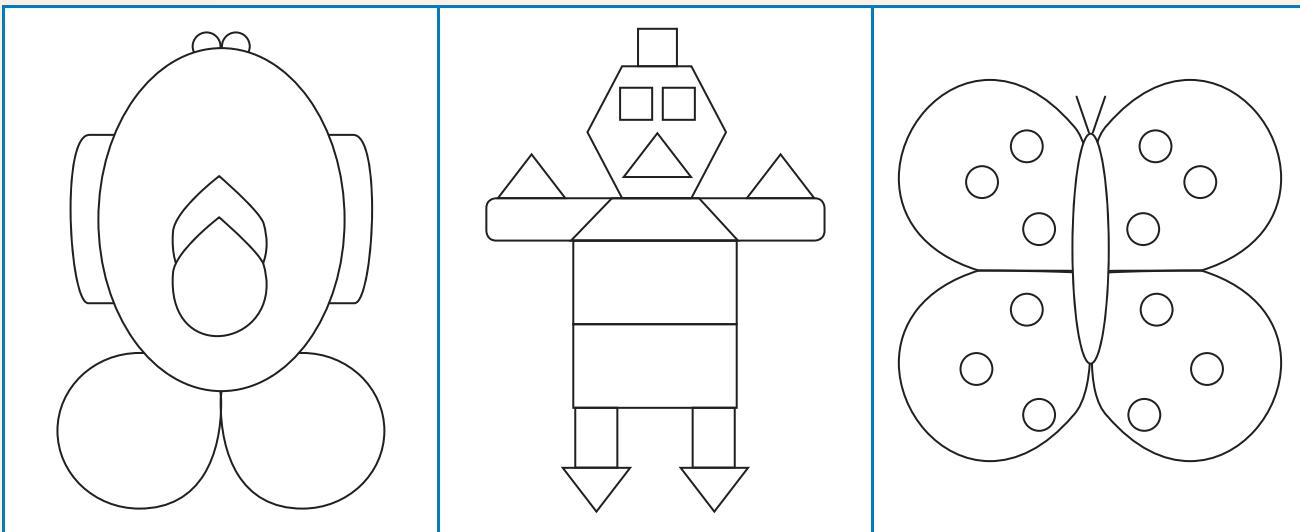
I28



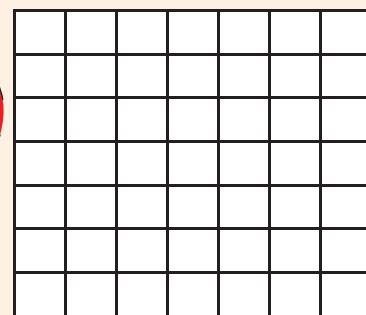
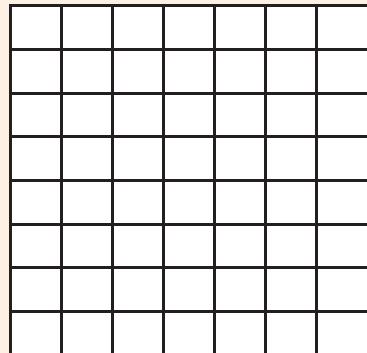
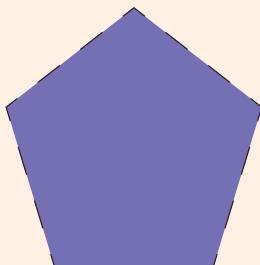
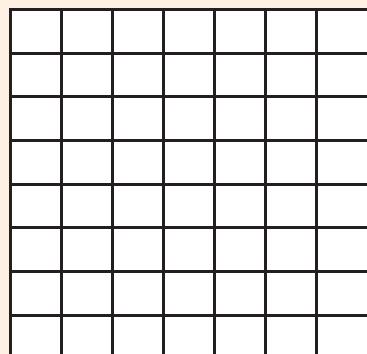
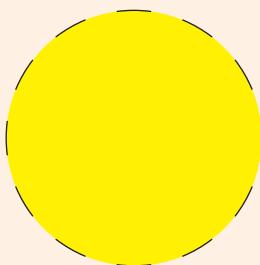
Ikota 4



Krwela umgca kamatwa-totse owahlula umfanekiso ube ngamacala amabini alinganayo. Faka umbala kwicala elinye lomfanekiso ngamnye.

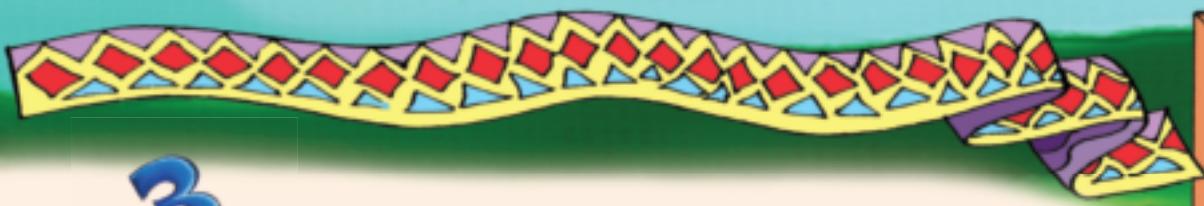


Khuphela ezi milo uze ukrwele umgca kamatwa-totse wakugqiba.

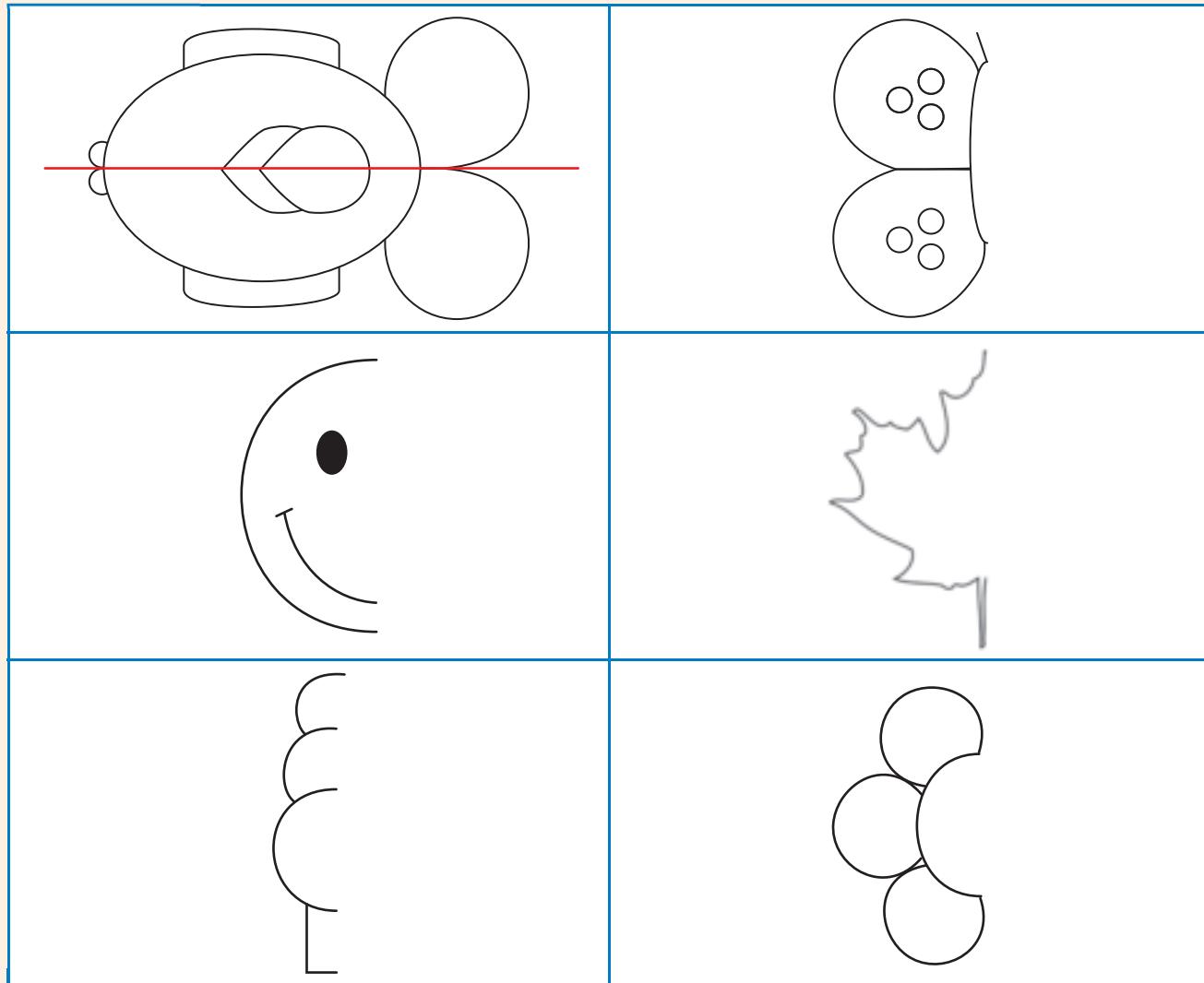


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0 | 2 3 4 5 6 7 8 9 10



Gqibezela umfanekiso ngokuzoba elinye icala elifana twatse.

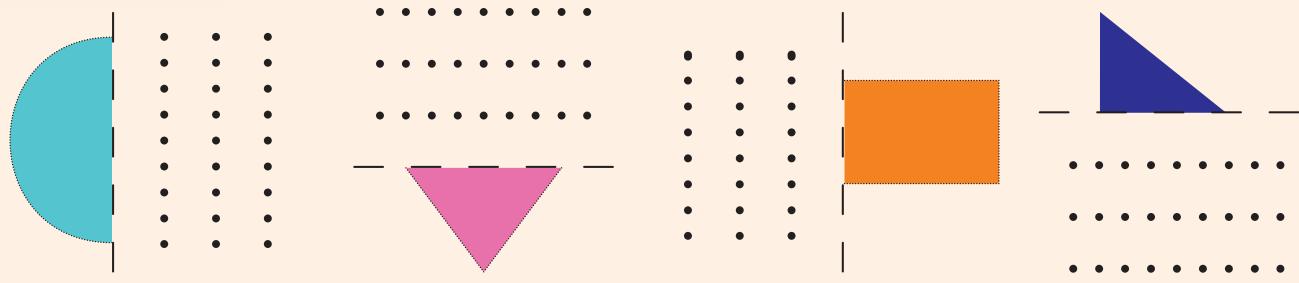


Zoba esinye isiqingatha somfanekiso.



Teacher:
Sign:

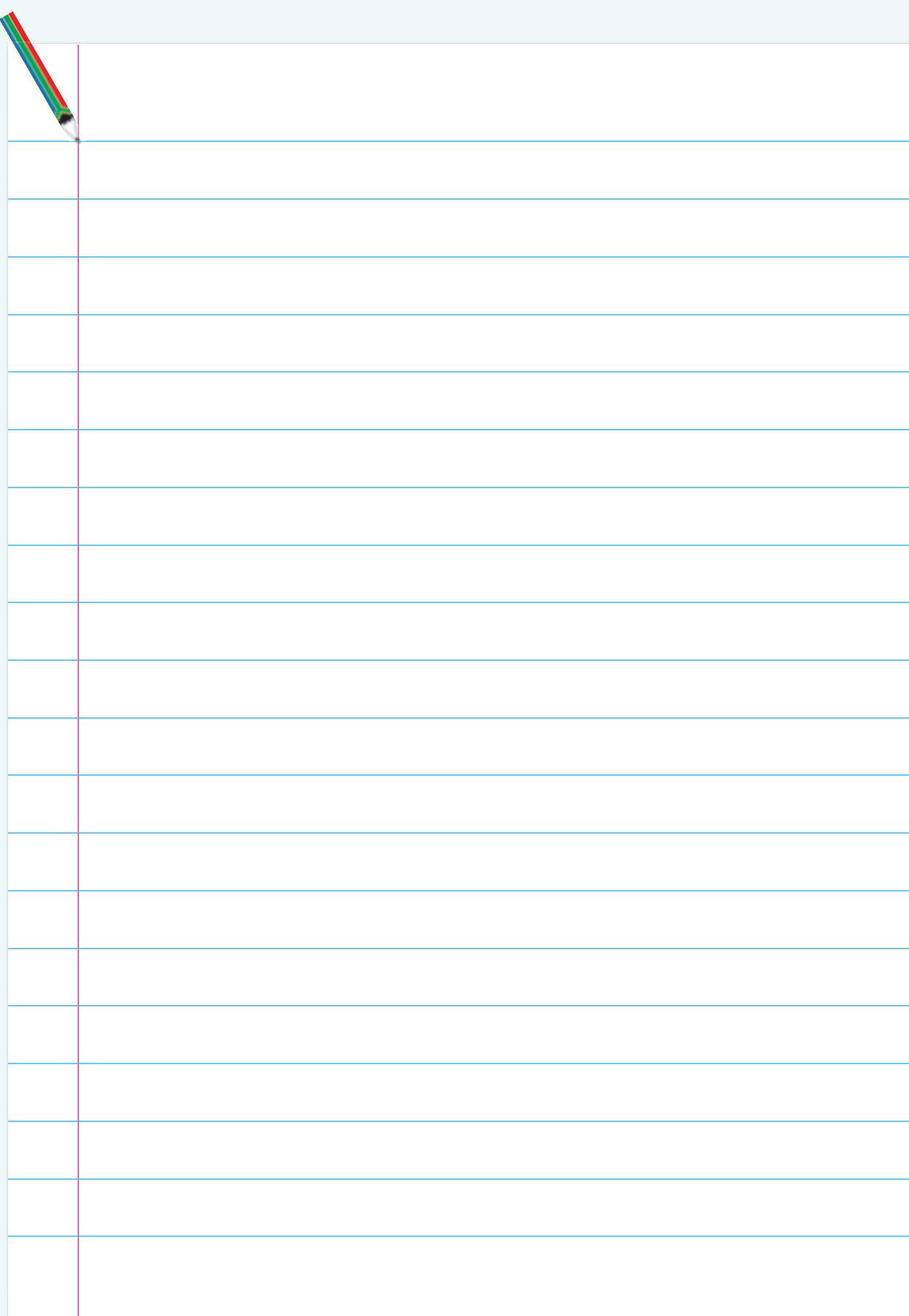
Date:



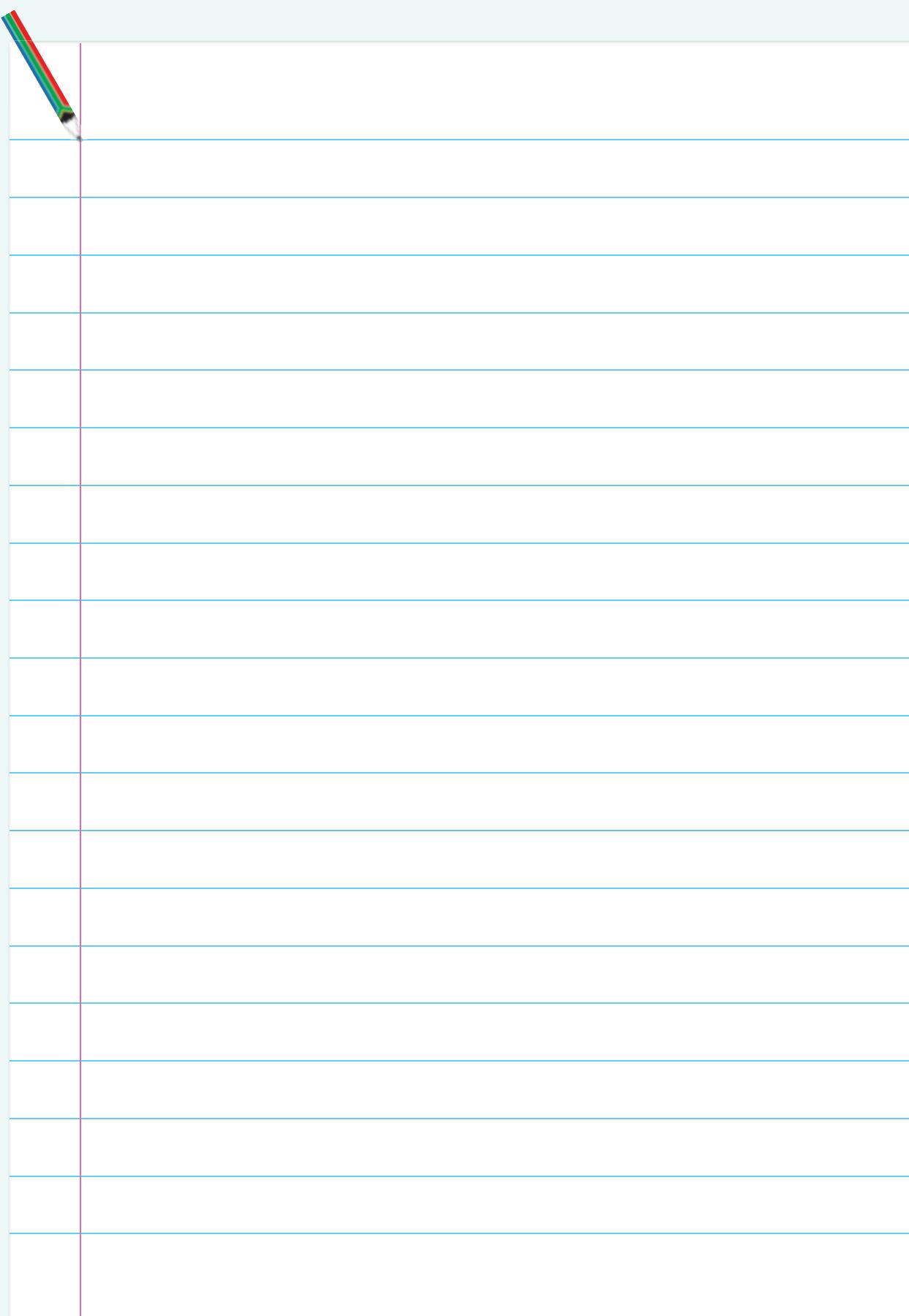
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Amanqaku



Amanqaku



Amanqaku

