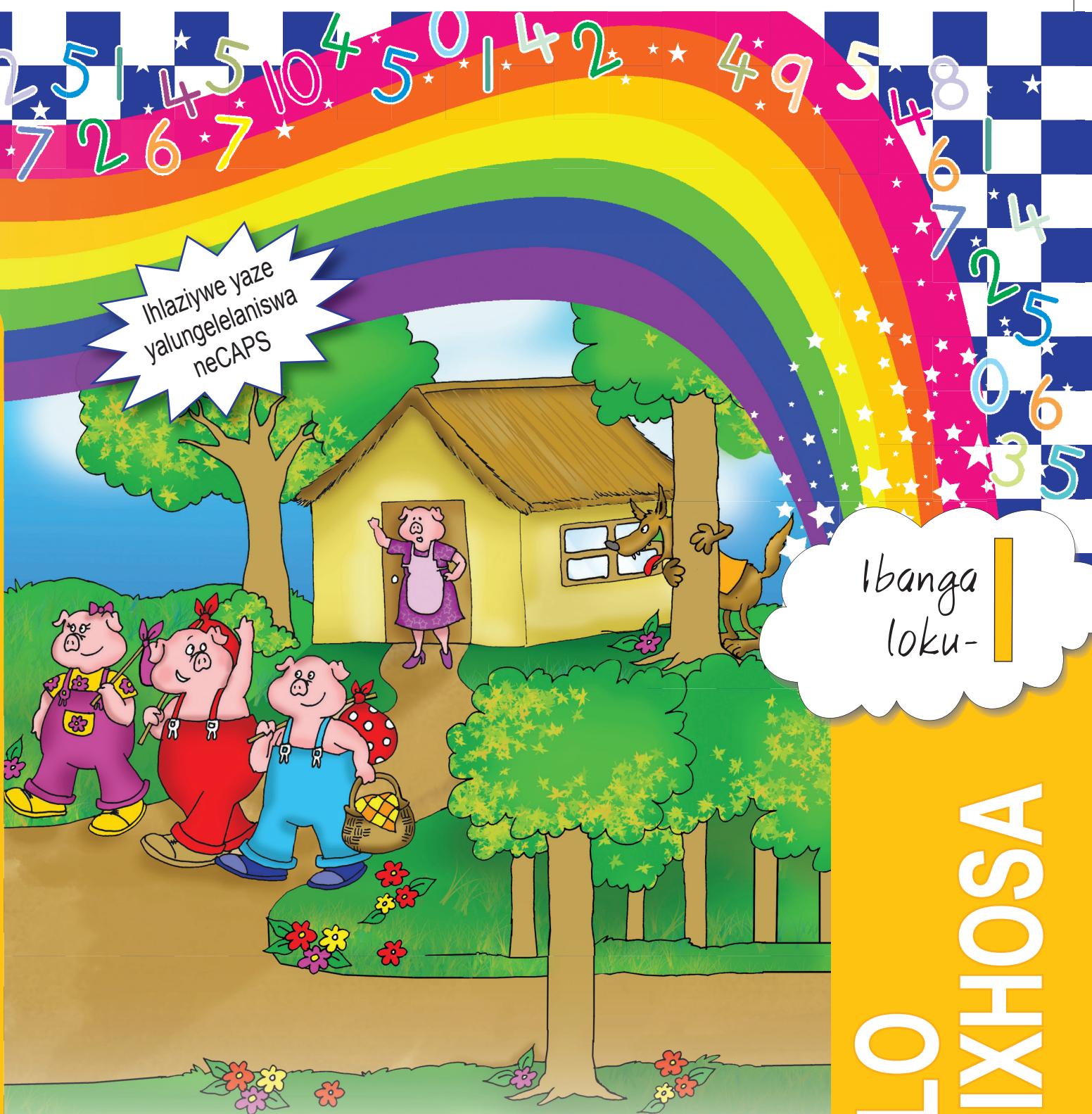


IZIBALO NGESIXHOSA

Incwadi yoku-2
Ikota 3 & 4



IZIBALO NGESIXHOSA – Ibanga loku- | Incwadi yoku- 2

ISBN 978-1-4315-0127-4



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

1 2 3 4

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 nangapezulu 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 elidlulileyo.	Umgqo-siseko wethu uyasineda ukuze sakhe ingomso elingcono lomntu wonke.
---------------------------	---	--

Thina, bantu boMzantsi Afrika,
Siyaqonda 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 izantukwano 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 amalungelo abanye.

Wazi amalungelo akho noxanduva lwakho.

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

Rainbow WORKBOOKS

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

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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.



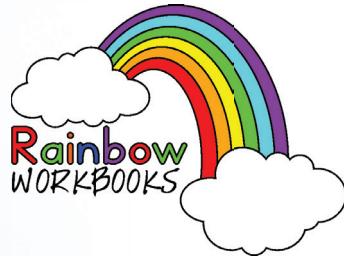
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Ibanga
loku-



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

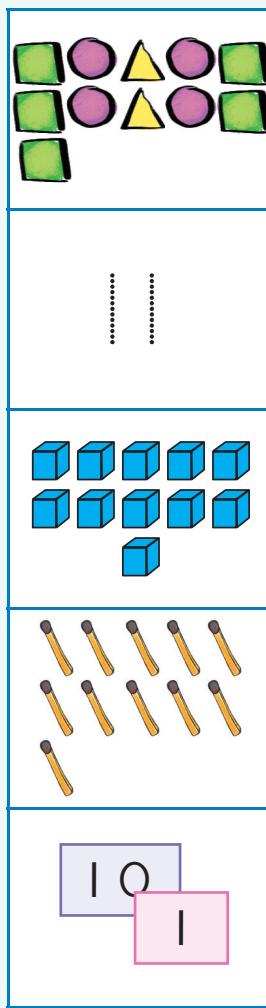
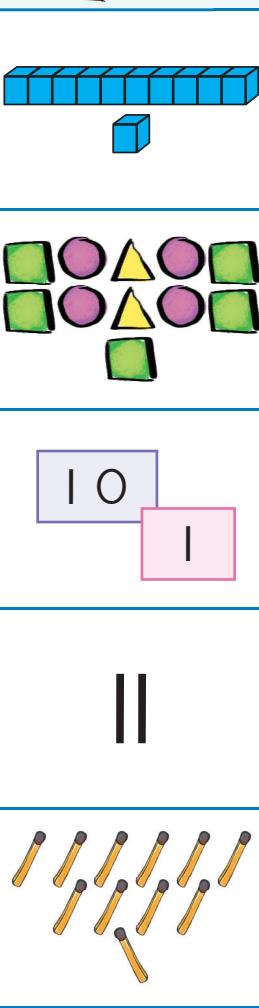


zimbini

2 2

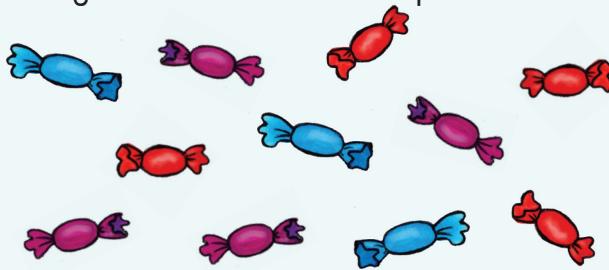


Tshatisa imifanekiso.



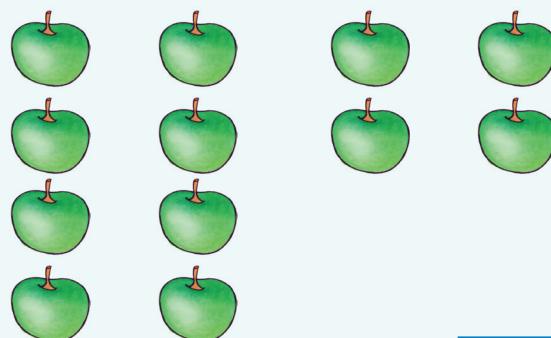
Biyela ezi zinto.

Biyela iilekese ezilishumi kuphela.



Zingaphi iilekese ezishiyekileyo?

Biyela ama-apile alishumi kuphela.



Mangaphi ama-apile ashiyekileyo?



0 1 2 3 4 5 6 7 8 9 10



Khuphela la manani.



ishumi elinanye



Ikhola nganye
kufuneka yenze i-II
xa iyonke. Fakela
amanani ashiiwego.

3	5	4
4	5	
4		2
II	II	II



Zoba izinto zibe li-II.



Fakela amanani ashiiwego.

1

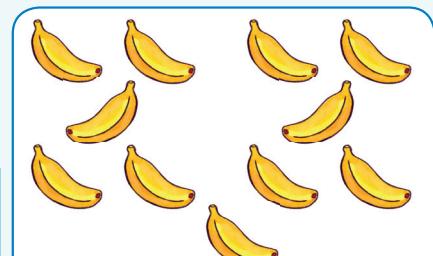
2



4



Bala ezi zinto.



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

 II		ishumi elinanye
	II	ishumi elinanye
II	 II	
	ishumi elinanye	 II



Leliphi inani elinganeno
ngononye kune-II? _____

Leliphi inani elingaphezulu
ngononye kune-II? _____



Teacher:
Sign:

Date:



II 12 13 14 15 16 17 18 19 20

66



Ikota 3

Masiqonde inani 12

Uhlaziyo:

Ziqhelise ukubhala la manani.



zintathu

3 3

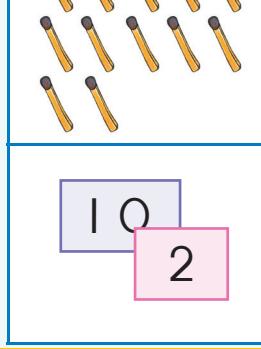
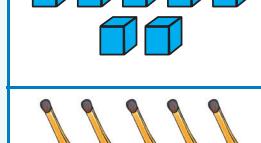
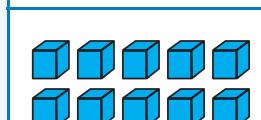
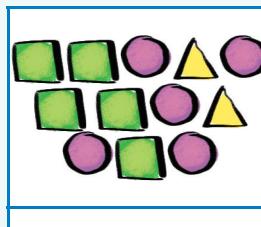
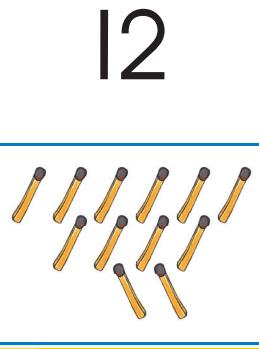
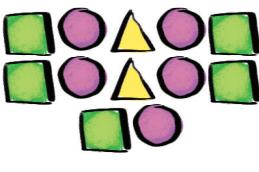
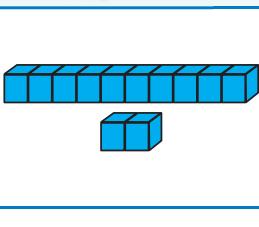


zine

4 4



Tshatisa imifanekiso.



Biyela ezi zinto.

Biyela izihlangu ezili-10 kuphela.



Zingaphi izihlangu ezishiyeyleyo?



Biyela oonokrwece abali-12 kuphela.



Bangaphi oonokrwece abashiyeyleyo?



4

0

1

2

3

4

5

6

7

8

9

10



Khuphela la manani.

|2 |2 |2 |2

ishumi elinesibini

|2 |2 |2 |2



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



Umhla:

Ikota 3

Masiqonde inani 13

Uhlaziyo:

Ziqhelise ukubhala la manani.



zintlanu

5 5

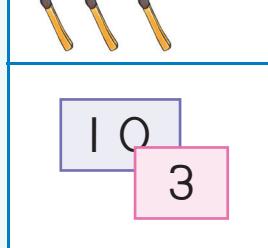
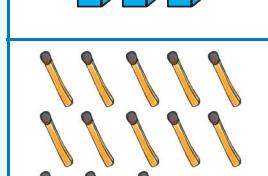
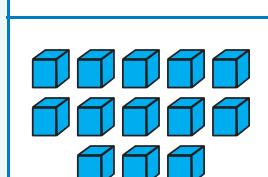
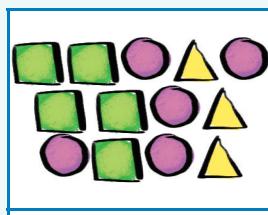
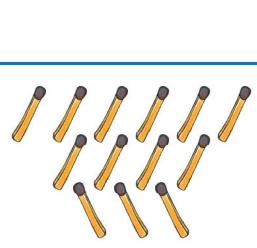
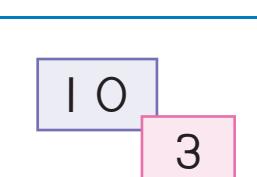
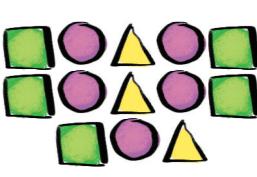
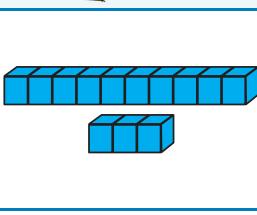


zintandathu

6 6

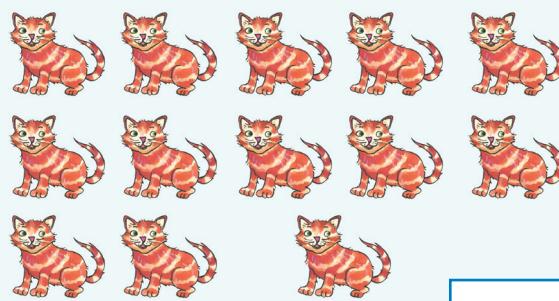


Tshatisa imifanekiso.



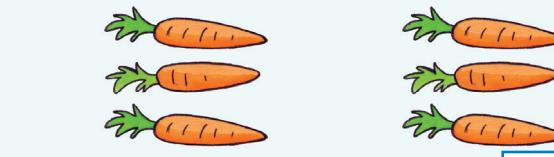
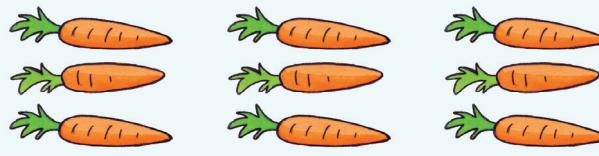
Biyela ezi zinto.

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-13.

I	2	6
I		
	3	2
I3	I3	I3



Zoba izinto ezili-I3.

Khawuzizobe ngenye indlela ke ngoku.

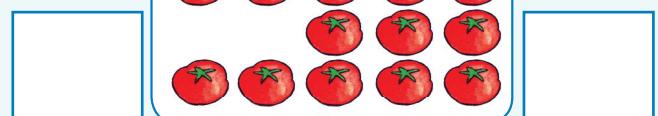
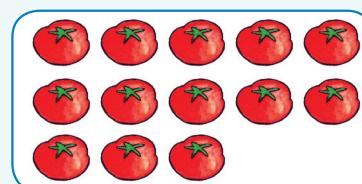


Fakela amanani
ashiyiwego.

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



Bala ezi zinto.



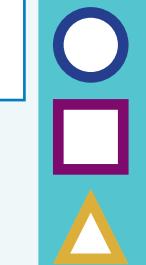
Gqibezela itheyibhile. Umqolo ngamnye
unomfanekiso, inani negama elimele elo nani.



 		ishumi elinesithathu
	I3	ishumi elinesithathu
I3	 	
	ishumi elinesithathu	

Leliphi inani elinganeno
ngononye kune-I3? _____

Leliphi inani elingaphezulu
ngononye kune-I3? _____



Teacher:

Sign:

Date:



68



Ikota 3

Masiqonde inani 14

Uhlaziyo:

Ziqhelise ukubhala la manani.



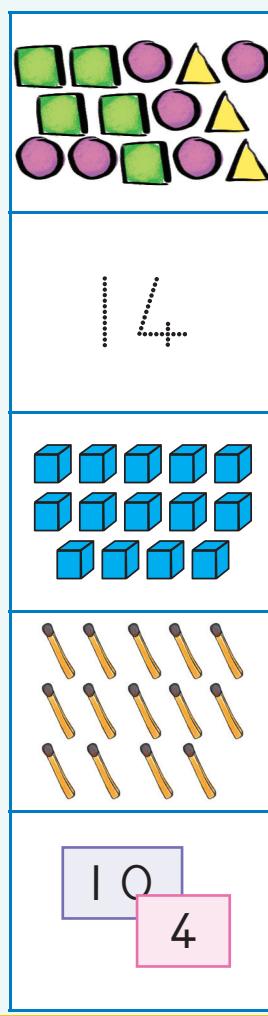
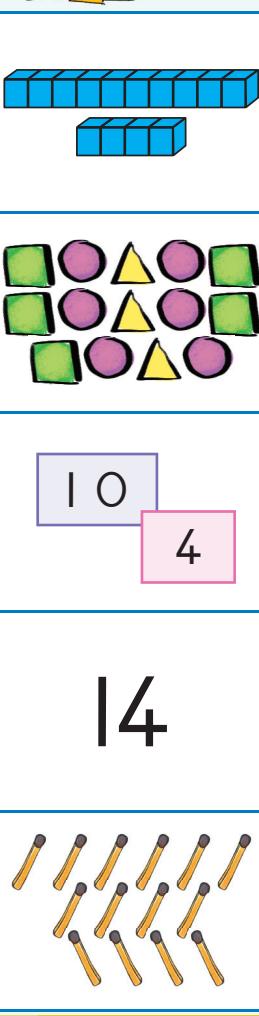
7 7



8 8



Tshatisa imifanekiso.



Biyela ezi zinto.

Biyela amabhabhathane ali -10 kuphela.



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.

14 14 14 14

ishumi elinesine

14 14 14 14



Zoba izinto zibe li-14.



Ikhoram nganye
kufuneka yenze
i-14. Fakela amanani
ashiyiwego.

1		2
	5	1
3	2	
14	14	14



Bala ezi zinto.



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

 	14	ishumi elinesine
14		
	ishumi elinesine	



Fakela amanani ashayiwego.



Leliphi inani elinganeno
ngononye kune-14? _____

Leliphi inani elingaphezulu
ngononye kune-14? _____



Teacher:

Sign:

Date:



11 12 13 14 15 16 17 18 19 20

69



Umhla:

Masiqonde inani 15

Ikota 3

Uhlaziyo:

Ziqhelise ukubhala la manani.



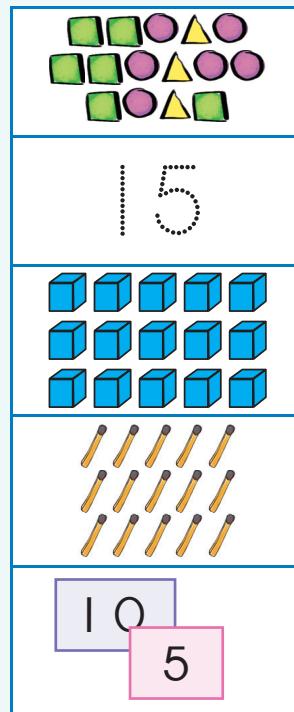
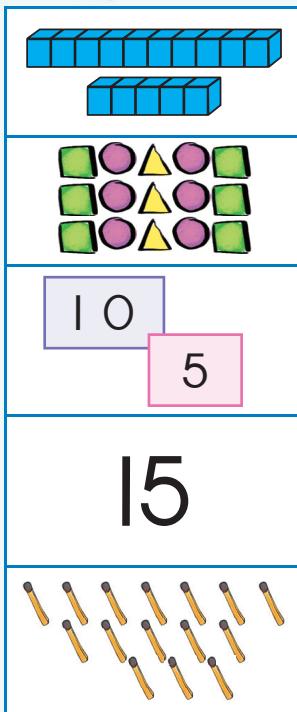
q q



10 10

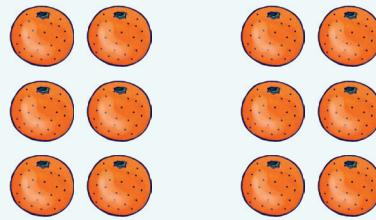


Tshatisa imifanekiso.



Biyela ezi zinto.

Biyela ii-orenji ezili-10 kuphela.



Zingaphi ii-orenji ezishiyeleyo?

Biyela iinkwenkwezi ezili-15 kuphela.



Zingaphi iinkwenkwezi ezishiyeleyo?

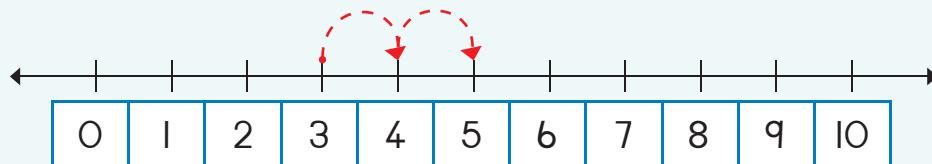


Fakela iiimpendulo.



$7 + 2 =$





$$4 + 2 =$$



Khuphela la manani.

15 15 15 15

ishumi elinesihlanu

15 15 15 15



Zoba izinto zibe li-15.

Zizobe ngenye indlela ke ngoku.

6

11

12

13



15

15

13

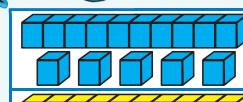
12



Fakela amanani ashiyiweyo.

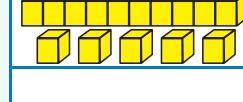


Gqibezela itheyibhile. Umqolo ngamnye unomfanekiso, inani negama elimele elo nani.



15

ishumi elinesihlanu



ishumi elinesihlanu



ishumi elinesihlanu

15



Leliphi inani elinganeno ngononye kune-15? _____

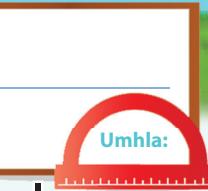
Leliphi inani elingaphezulu ngononye kune-15? _____

Teacher:
Sign:
Date:



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.

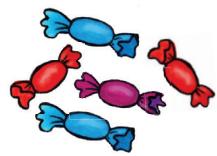
6

zintandathu



Jonga umfanekiso uze ubhale isivakalisi - manani ngomfanekiso ngamnye.

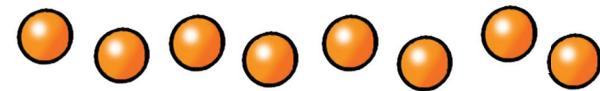
ULisa uneelekese ezi - 3. U Mandla yena
uneelekese ezi - 5. Zingaphi iilekese
abanazo zidibene?



Masibale:

3	4	5	6	7	8
<input type="text"/>					
$+ \quad = \quad$					

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

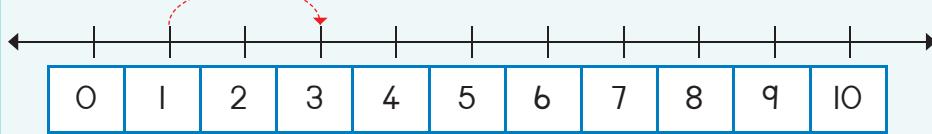


Masibale sibuye umva:

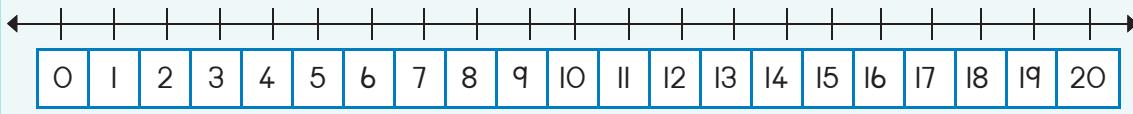
8	7	6	5	4
<input type="text"/>				
$- \quad = \quad$				



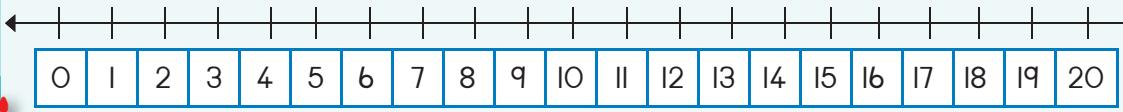
Bhala iimpendulo.



$1 + 2 = \boxed{}$



$13 + 2 = \boxed{}$



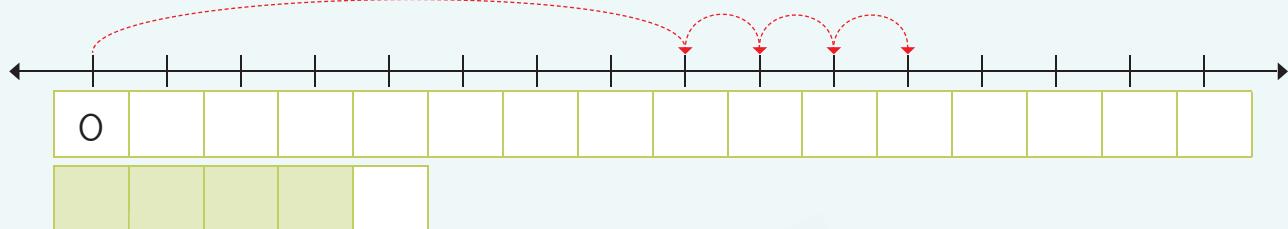
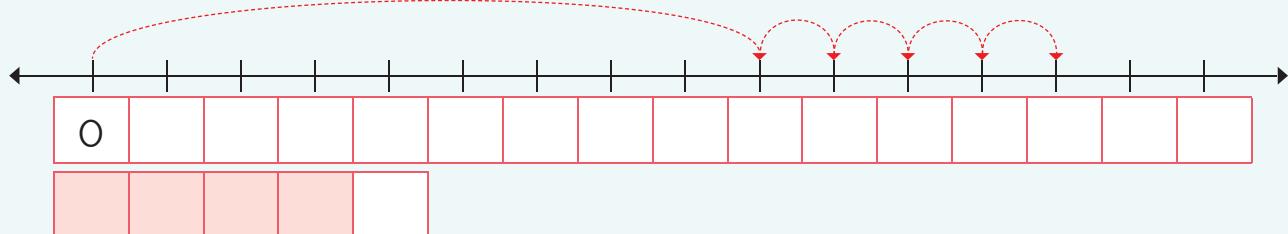
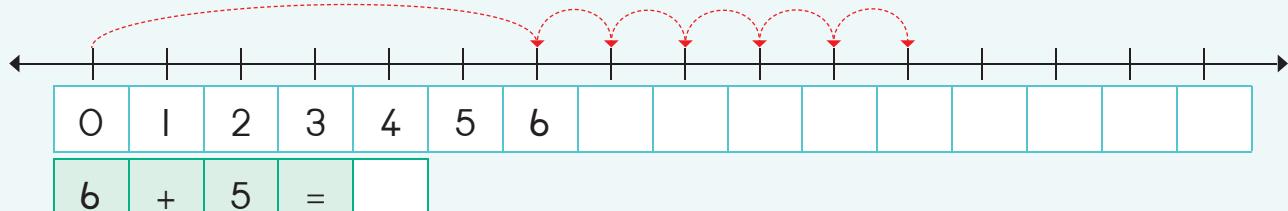
$15 + 2 = \boxed{}$



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.

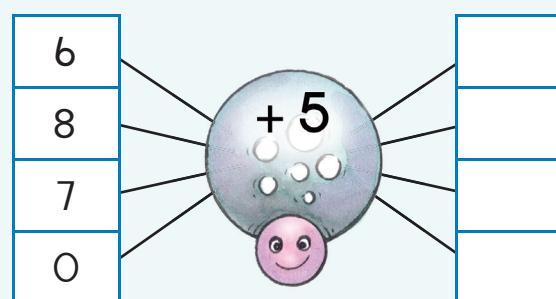
Ndineminyaka esi - 7 ubudala.

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.

$3 + 3 = \square$



$0 + 5 = \square$



$3 + 2 + 1 = \square$



$3 + 9$



$4 + 8$



$5 + 7$



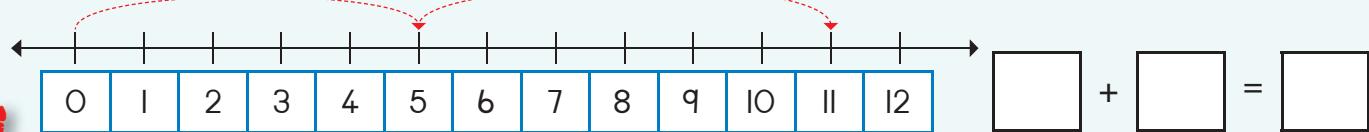
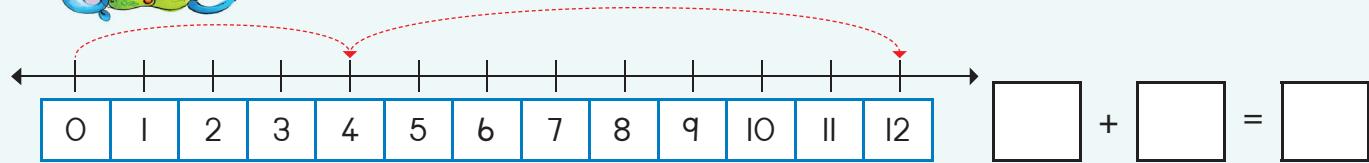
$6 + 6$



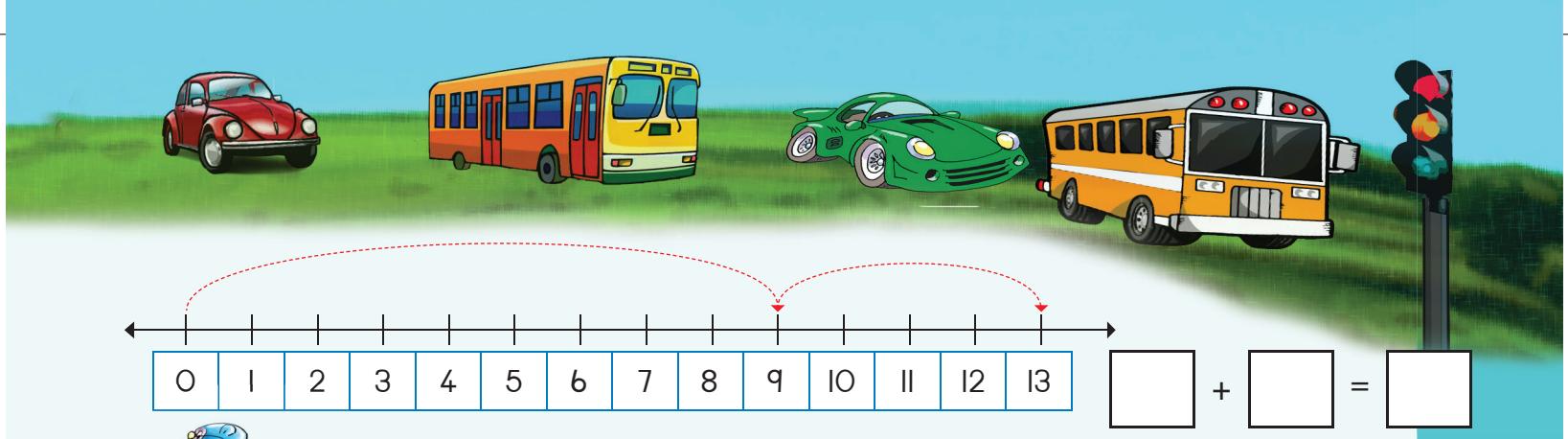
$7 + 5$



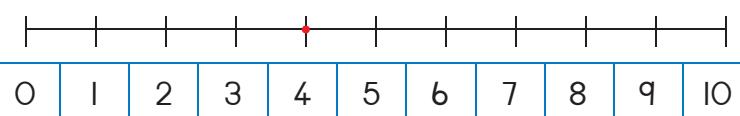
Bhala isiphumo soku:



0 1 2 3 4 5 6 7 8 9 10



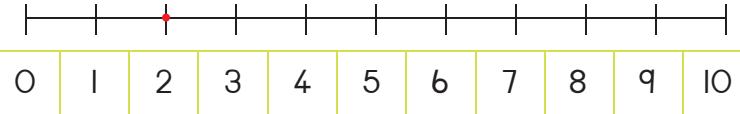
Gqibezela umgca-manani uze ubhale impendulo.



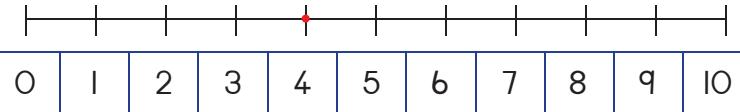
$$4 + 5 + 1 = \boxed{}$$



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



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



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



Sombulula ezi zibalo ngokuzoba imifanekiso.

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

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

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

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





Umhla:

Ukudibanisa – ukwakha nokucalula amanani ukuya kufikelela kwi -15

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

8

zisibhozo

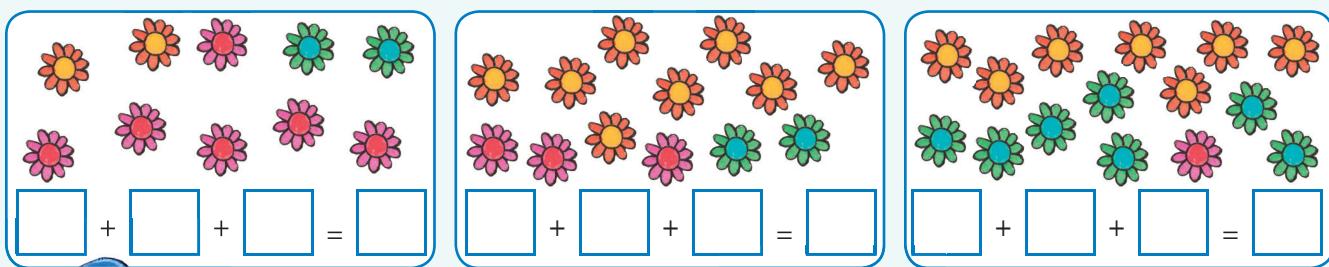


Bhala impendulo.

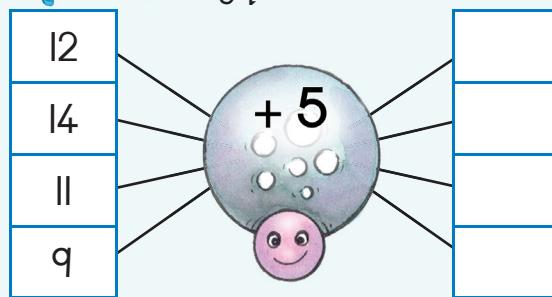
$0 + 2 =$		$2 + 2 =$		$4 + 2 =$		$6 + 2 =$		$8 + 2 =$	
$10 + 2 =$		$12 + 2 =$		$14 + 2 =$		$16 + 2 =$		$18 + 2 =$	



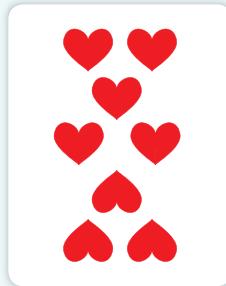
Bhala isivakalisi - manani usebenzise iintyatyambo eznemibala eyahlukeneyo.



Nceda isigcawu sigqibezele izibalo.



Zingaphi iintliziyo?



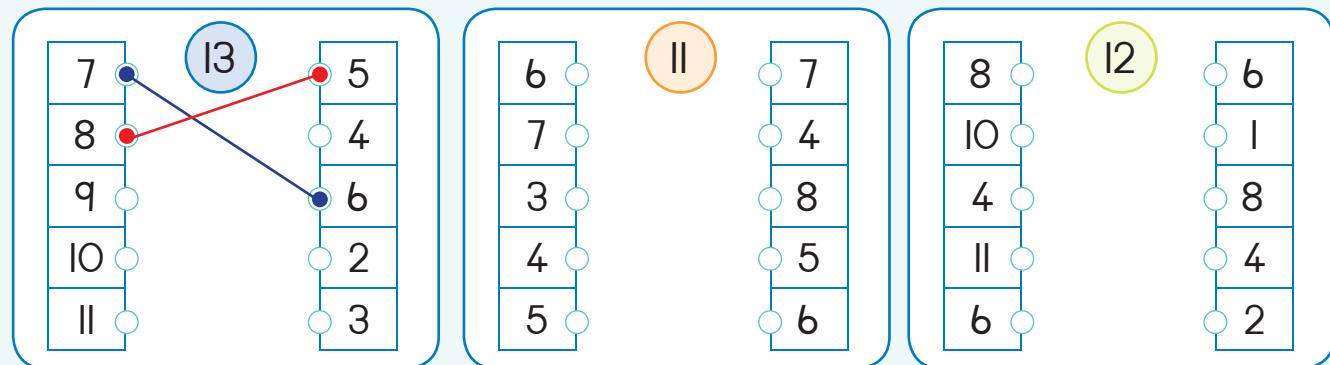
Yenza esakho isibalo.

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

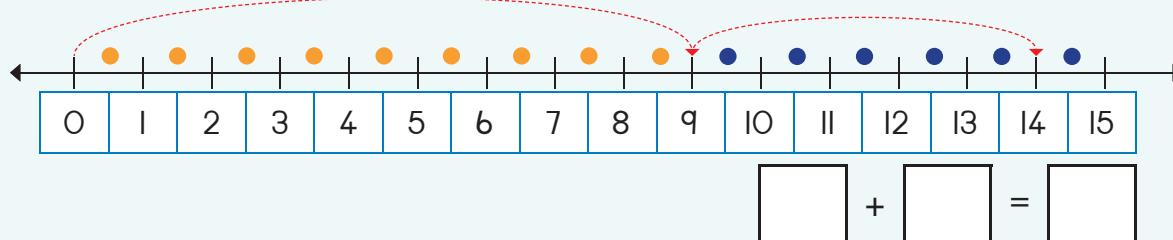
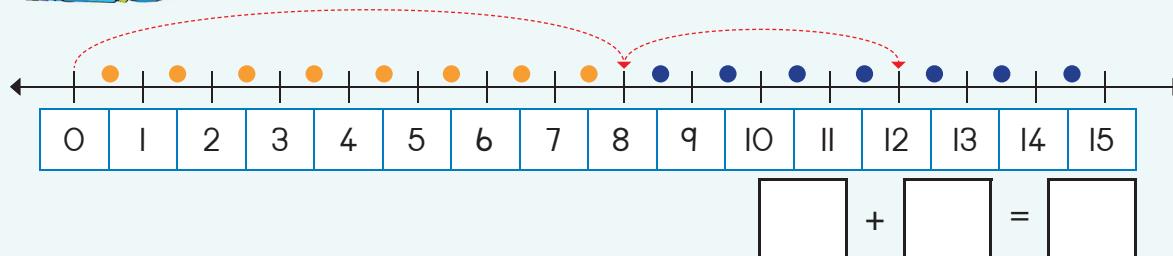




Tshatisa izibini zamanani ukuze wenze la manani alandelayo.



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

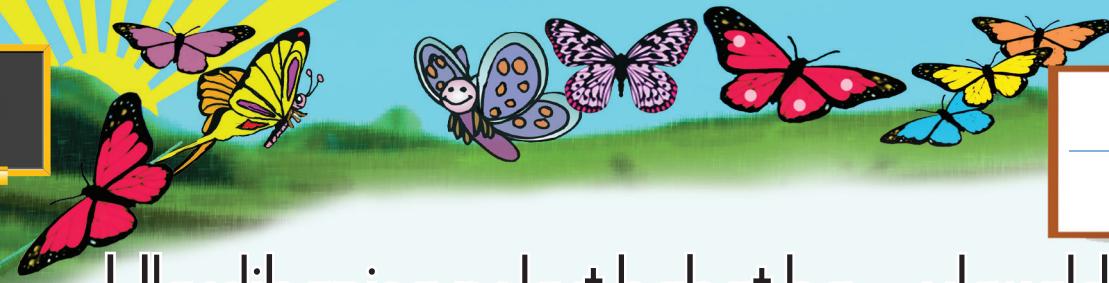


Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

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Ikota 3

Ukudibanisa nokuthabatha – ukwakha nokucalula

Uhlaziyo:

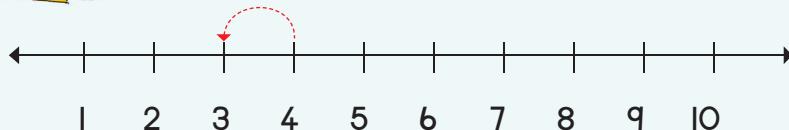
Ziqhelise ukubhala inani ngamagama.

9

zilithoba



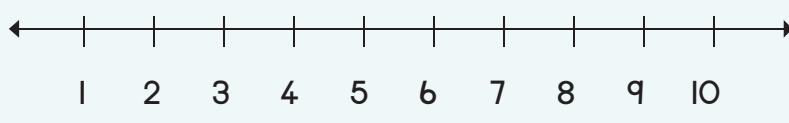
Bhala impendulo.



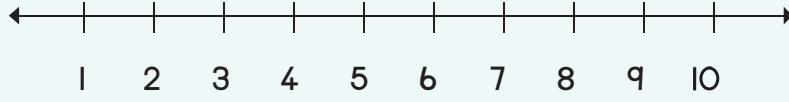
$$4 - 1 =$$



$$5 - 3 =$$



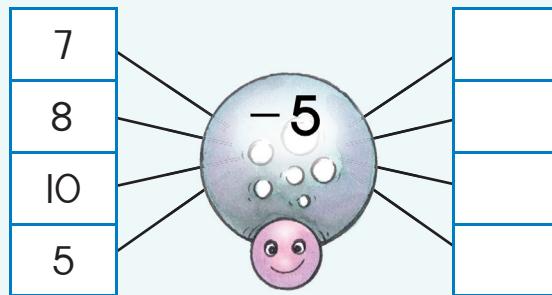
$$4 - 2 =$$



$$5 - 2 =$$



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.

$$7 + 4 = \boxed{}$$

$$7 + 4 + 1 = \boxed{}$$

$$10 + 1 = \boxed{}$$

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

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

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

$$13 - 6 = \boxed{}$$

$$13 - 3 + 3 = \boxed{}$$

$$10 - 3 = \boxed{}$$

$$12 - 8 = \boxed{}$$

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

$$10 - 3 = \boxed{}$$



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:

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

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

Oku singakubonisa ngale ndlela:

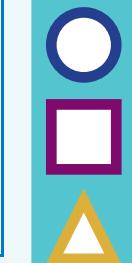
$$(\quad - \quad) - 1 = \boxed{} \rightarrow 10 - 1 = \boxed{}$$

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

10

lishumi



Teacher:

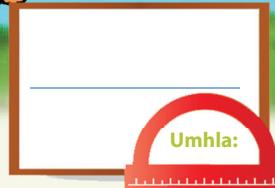
Sign:

Date:



11 12 13 14 15 16 17 18 19 20

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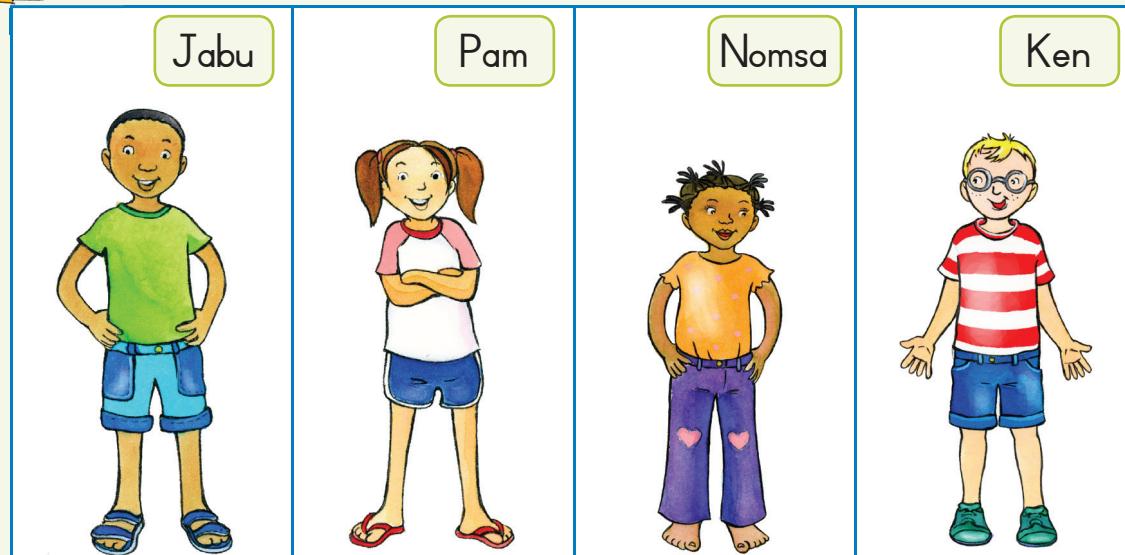


Ubude

Ikota 3



Jonga umfanekiso uze uphendule imibuzo.



Ngubani oyena mde?

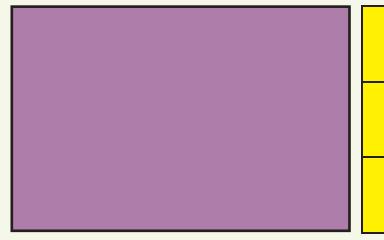
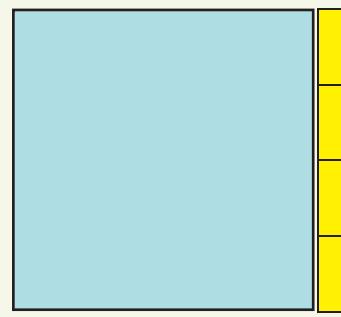
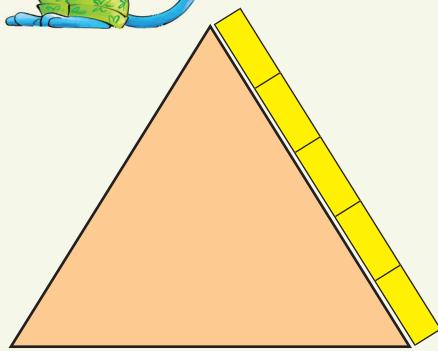
Ngubani eyona nkwenkwe imfutshane?

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 _____.



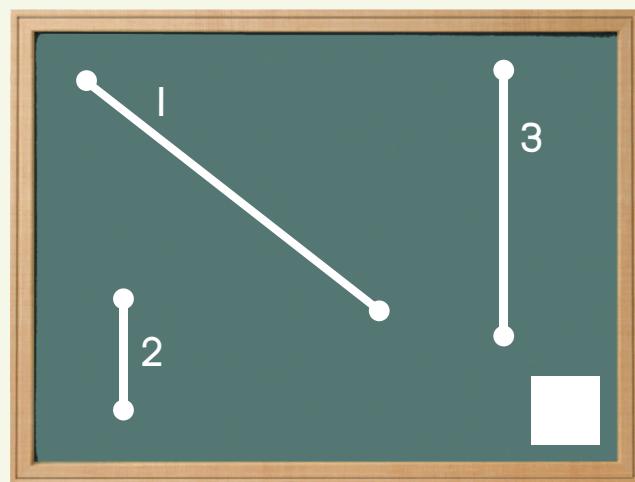
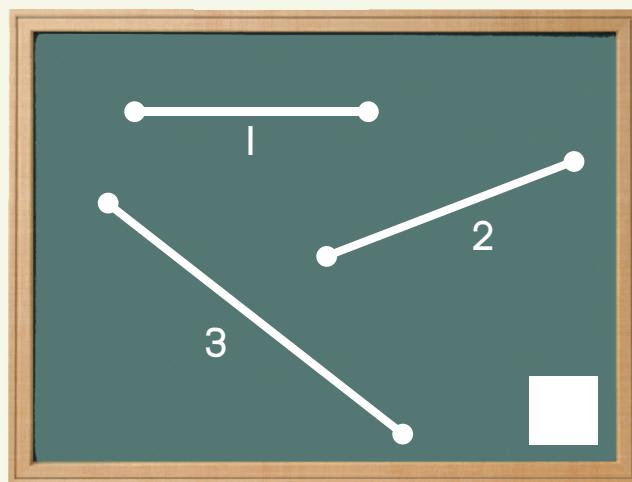
Ubude ziibloko ezi _____.



Ngowuphi umgca omfuthane
kakhulu?

Ngumgca 1, 2 okanye 3?

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



Teacher:	<input type="text"/>
Sign:	<input type="text"/>
Date:	<input type="text"/>



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Ikota 3



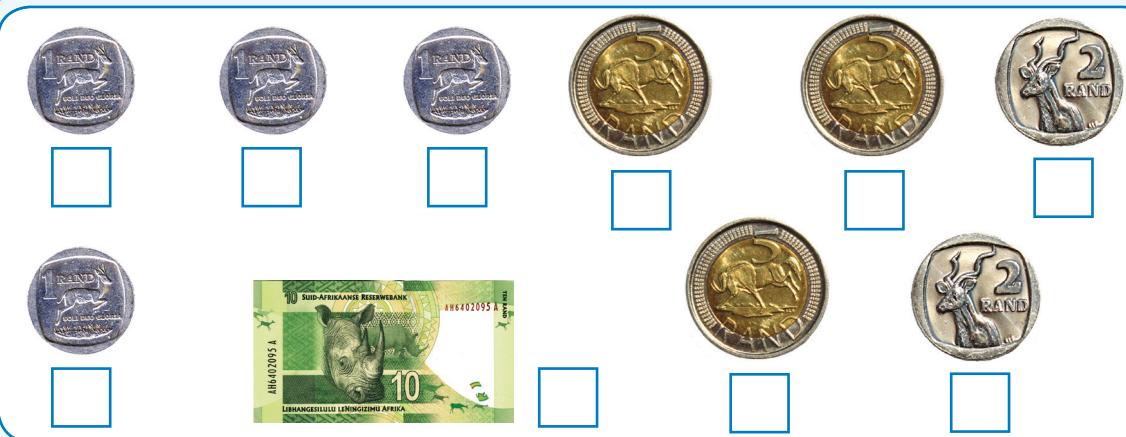
Phawula esona sixa siphezulu kumqolo ngamnye.



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

Umhla:



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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Umhla:

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:

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

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

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

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

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

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



0

1

2

3

4

5

6

7

8

9

10



Bala oku kulandelayo.

Ndinee -RI5. Ndithenge nge -	Ndishiyelewe 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 ushiyelewe yimalini.



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Umhla:

Ikota 3

Imali: Ukudibanisa nokuthabatha



Bala oku kulandelayo:

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

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

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



Bala oku kulandelayo:

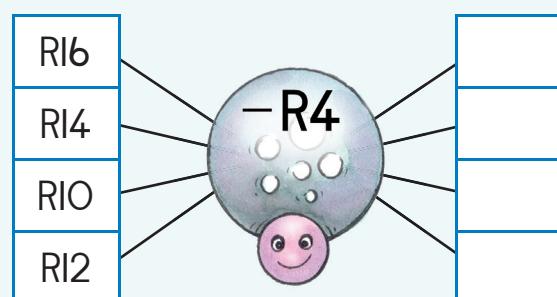
RIO - R7 =	
RI5 - RI =	
RI2 - R2 =	
RI5 - R6 =	

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

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

Nceda isigcawu sigqibezele
zonke izibalo.

Yenze ibe ngaphantsi ngee -R2.



$$R4 - R2 =$$

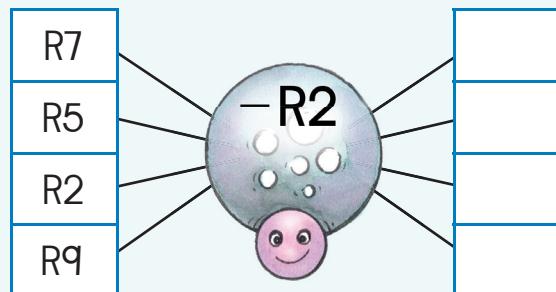


$$R7 - R2 =$$





Nceda isigcawu senze zonke izibalo zokuthabatha.



Sombulula ezi zibalo zilandelayo.

Ubunee - RI2. Umama wakho ukuphe
ii - R5. Unamalini ngoku iyonke?

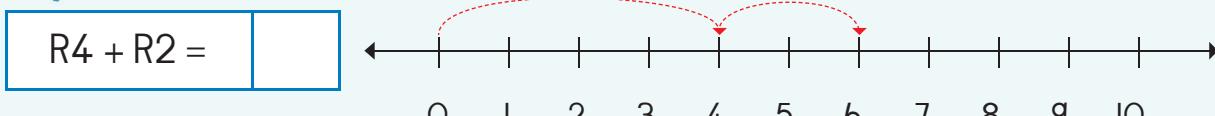
Unee - RI9. Uthenge iilekese ngee - R8.
Unamalini eshiyekileyo?



Ndigcine malini?



Bonisa isibalo kumgca - manani uze ubhale impendulo.



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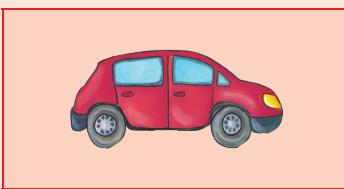
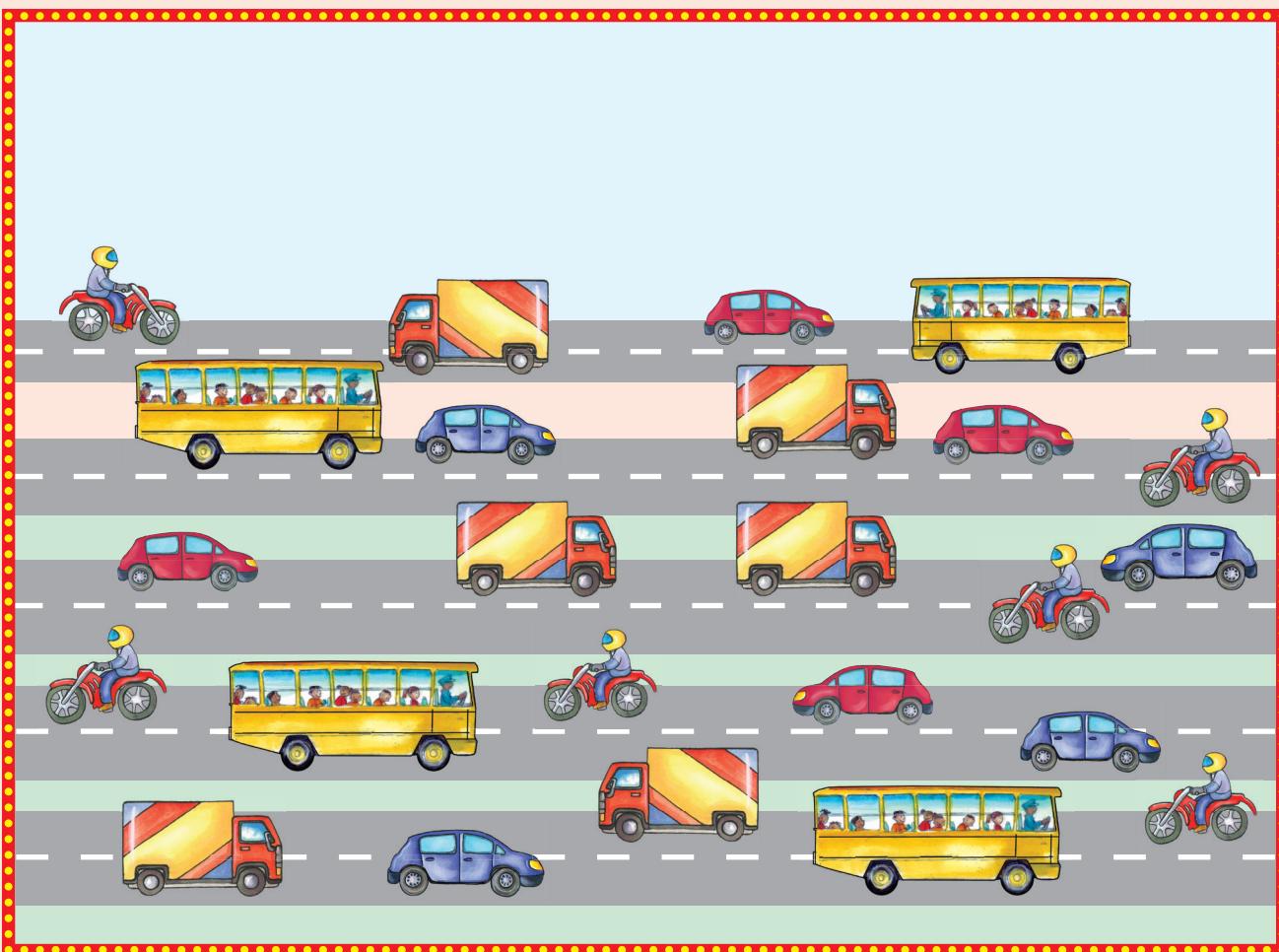


Ikota 3

Inkcukacha

Bala ukuba zingaphi izithuthi ozibonayo kuhlobo ngalunye.

Umhla:





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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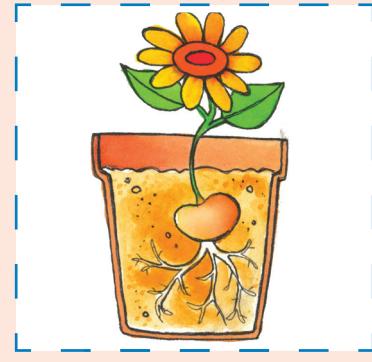
Ikota 3

Iinkcukacha nexesha

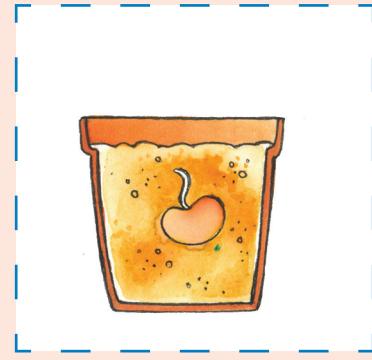
Ncokola ngale mifanekiso uze uyibeke ngokulandelelana kwayo kakuhle.



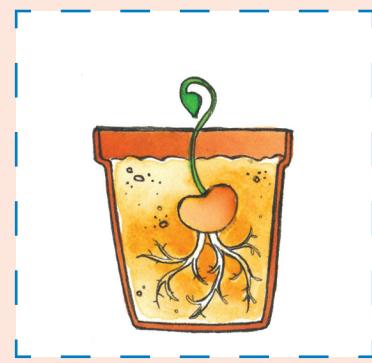
1



2



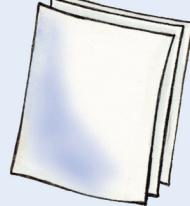
3



4



Sebenzisa amakhadi okuhlela akuMsiko I ugqibezele le grafu yemifanekiso.



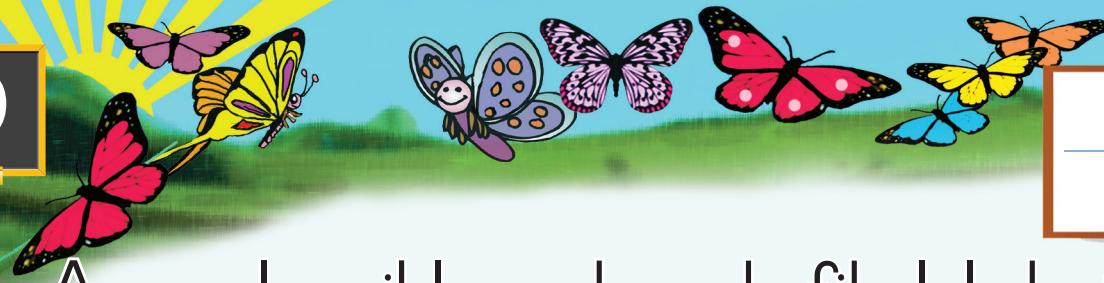
--	--	--	--



Teacher:
Sign:
Date:



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Umhla:

Ikota 3

Amaqela ezihlanu ukuya kufikelela kwi-15

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama.

5

zintlanu



Jonga umfanekiso uze uphendule umbuzo.



Jonga umfanekiso.

Singakubhala ngolu hlobo oku:

Mangaphi amaqela ezi-5 onokuwenza?

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



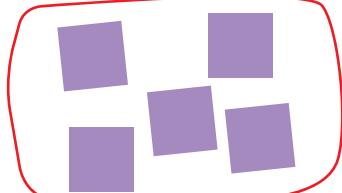


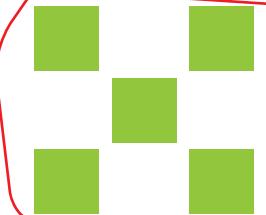
Biyela ngezangqa ezi zinto
ukuze wenze oku:



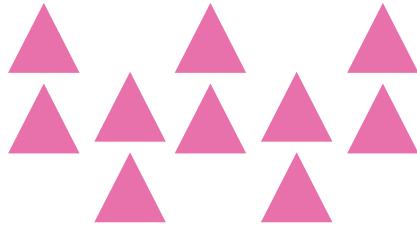
Bhala izivakalisi - manani
zoku:

Iqela eli - I lesi - 5



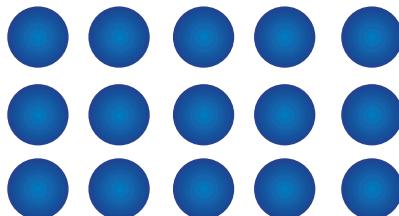


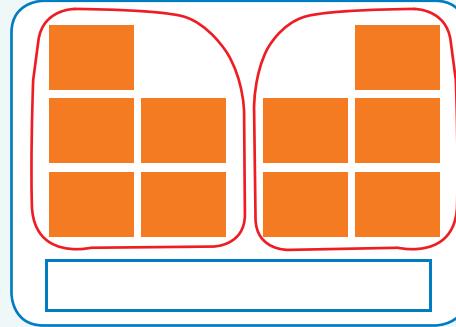
Amaqela ama - 2 ezi - 5





Amaqela ama - 3 ezi - 5



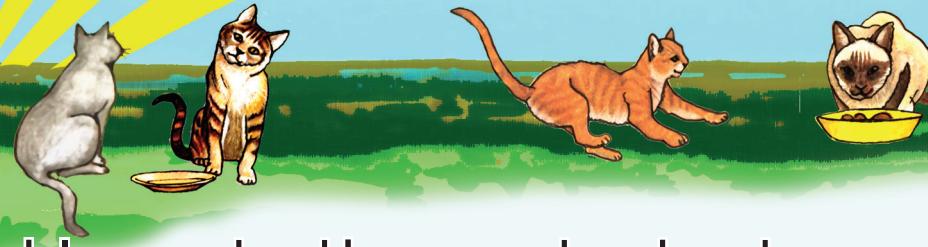


Mangaphi amaqela ezhilanu ongawenzayo?

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



81



Umhla:

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

$$5 + 5 = 10$$

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

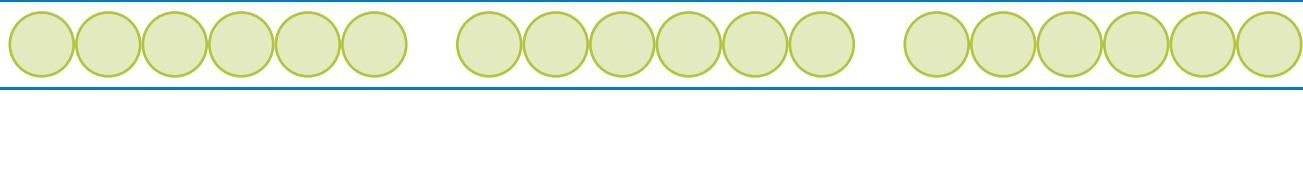




Biyela uze ubale ukuba mangaphi amaqela ezhilanu onokuwenza kwikhadi ngalinye.



Bhala isivakalisi - manani:



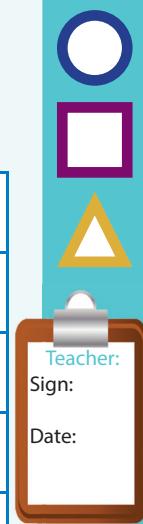
Sebenzisa imibala eyahlukeneyo ubonise amanani oza kuwasebenzisa ekwenzeni amaqela ezhilanu.

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	



82



Umhla:

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.



36

0

1

2

3

4

5

6

7

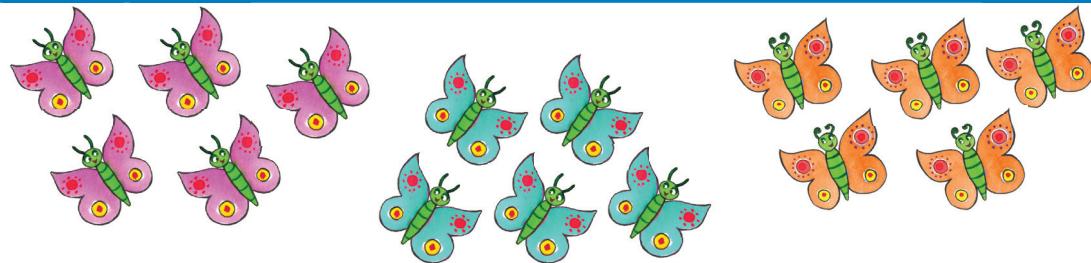
8

9

10



3 Bhala isivakalisi - manani.



4 Bala.

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

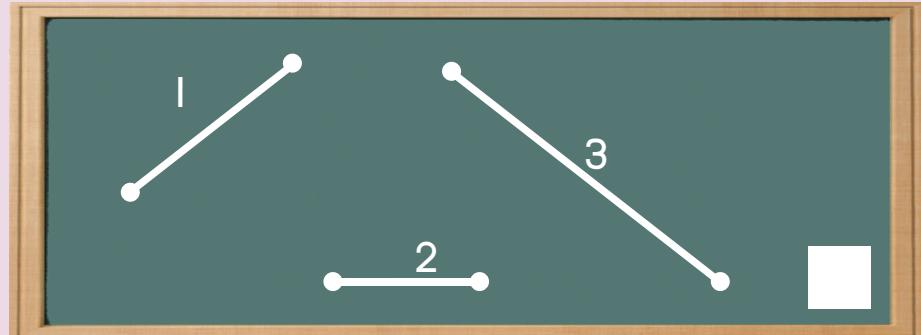
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\quad}$$

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

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

Uhlaziyo:

Uhlaziyo: Ngowuphi owona mgca umde?



Teacher:
Sign:
Date:



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Umhla:

Ikota 3

Iipatheni zamanani zezihlanu ukuya kutsho kuma - 50

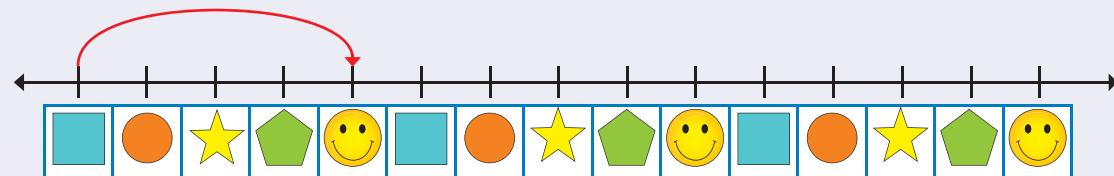


Gqibezela iipatheni zezihlanu ngokufakela imibala kula manani.

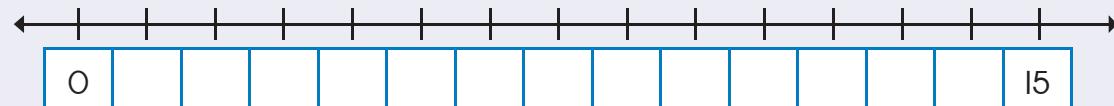
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Zoba izazinge ubonise amaqela ezihlanu.

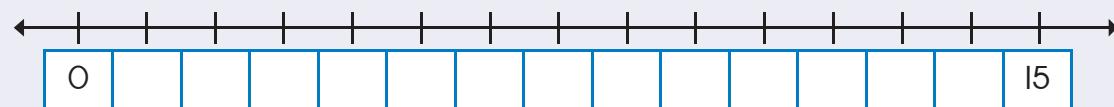


Bhala amanani ashiiyiweyo uze wenze izazinge ubonise amaqela ezihlanu.



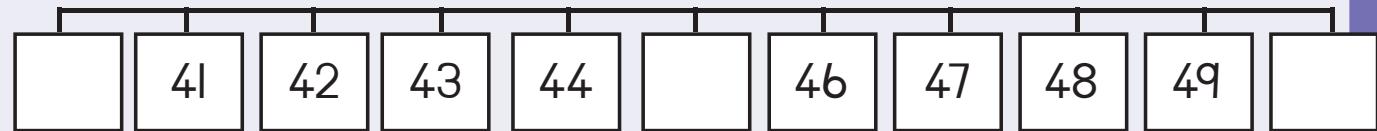
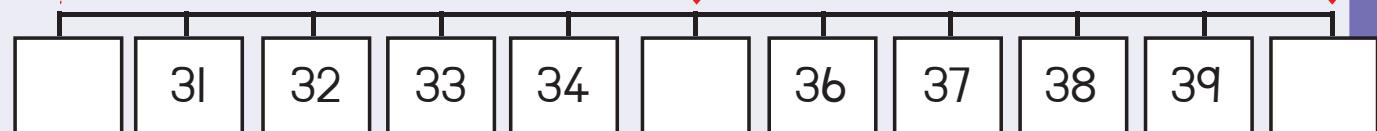
Gqibezela umgca-manani. Zoba izazinge ubonise amaqela ezihlanu.

Kukho amaqela ezihlanu a .



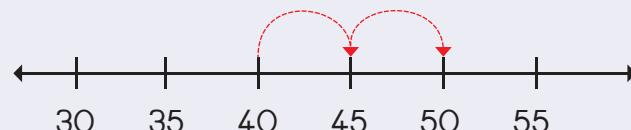
38

0 | 2 3 4 5 6 7 8 9 10

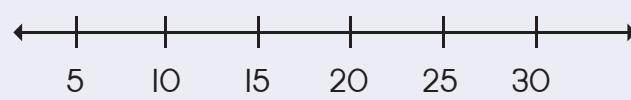


Zoba izazinge ubonise oku:

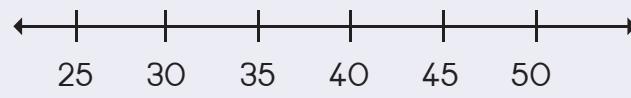
40, 45, 50



10, 15, 20



25, 30, 35



11 12 13 14 15 16 17 18 19 20



84



Umhla:

Ikota 3

Iipatheni zamanani zezihlanu ukuya kutsho kuma - 80



Mangaphi amaqela ezihlanu owabonayo emfanekisweni?



Gqibezela le mifanekiso ubonis amaqela ezihlanu.



40

0

1

2

3

4

5

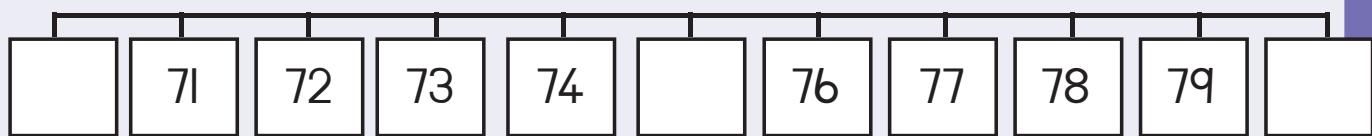
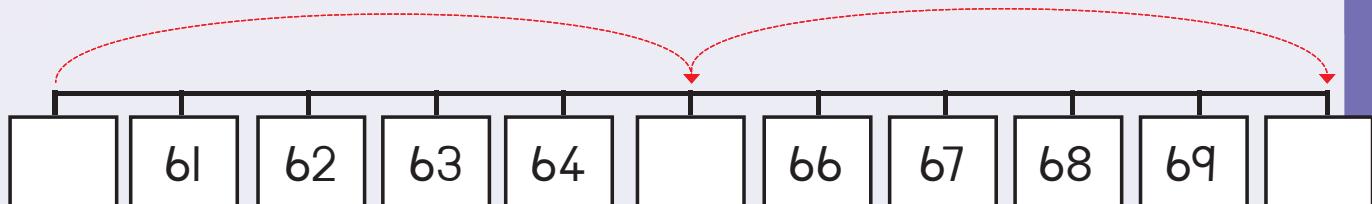
6

7

8

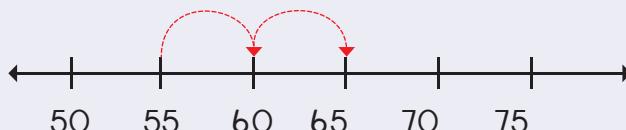
9

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



85



Ikota 3

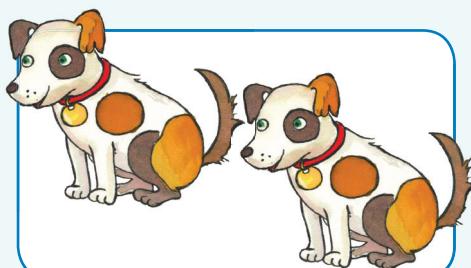
Iziphindwa kabini



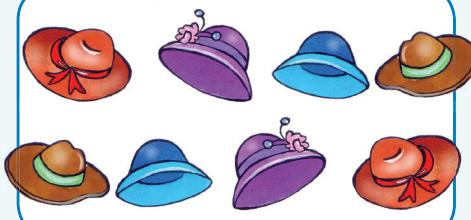
Phinda kabini ezi zinto uze ubhale impendulo.



u-1 ophindwe kabini



Ezi-4 eziphindwe kabini

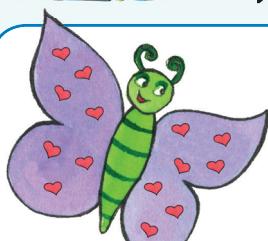


Ezi-5 eziphindwe kabini



Bala iimilo ezikwiphiko ngalinye lebhabhathane.

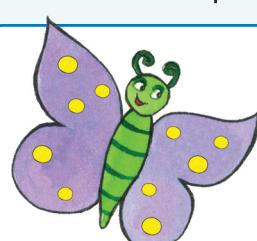
Gqibezela izivakalisi - manani zokuphindwa kabini.



$$7 + 7 =$$

Okanye

Ezi-7 eziphindwe kabini =



$$5 + 5 =$$

okanye

Ezi-5 eziphindwe kabini =

$$2 + 2 =$$

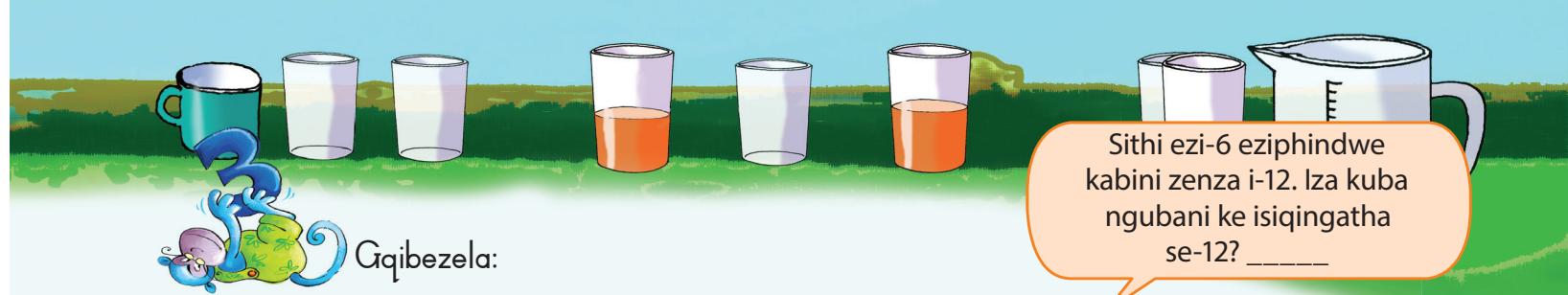
okanye

Ezi-2 eziphindwe kabini =



42

0 1 2 3 4 5 6 7 8 9 10



3

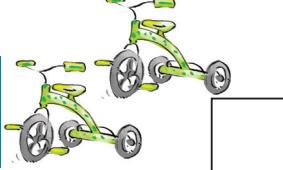
Gqibezela:

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

Mangaphi amavili owabonayo?



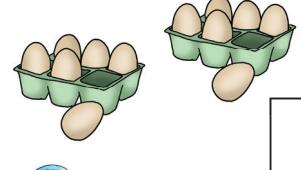
Mangaphi amavili owabonayo ngoku?



Mangaphi amaqanda asetryjni?



Mangaphi amaqanda akhoyo ngoku?



4

Bala amachokoza uze uwaphinde kabini.

5

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 →	

6

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?

7

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



Teacher:
Sign:
Date:

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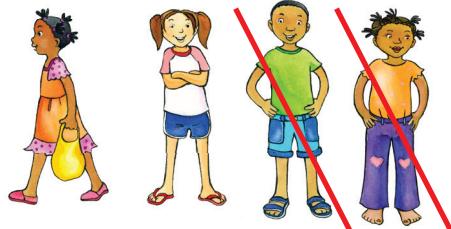
86



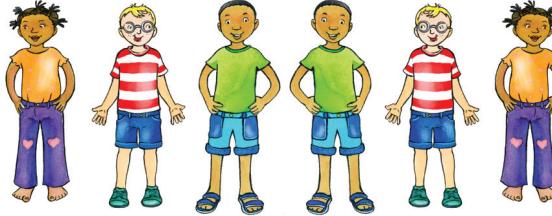
Ikota 3



Hlaba isiqingatha sabantwana uze ubhale impendulo.



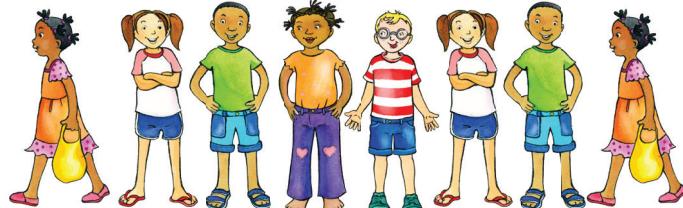
Isiqingatha sezi - 4 sisi _____



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 - = _____



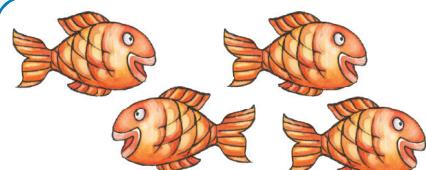
Isiqingatha
se - 10 sisi - = _____



Isiqingatha sezi - 6 sisi - = _____

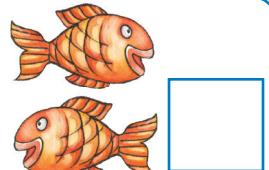


Zingaphi
iintlanzi
ezikhoya?





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



87



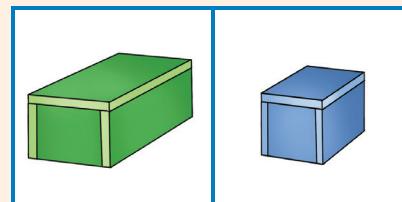
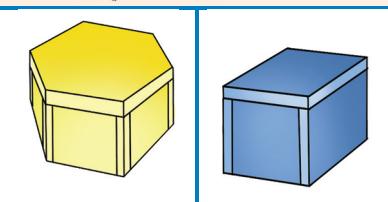
Umhla:

Ikota 3

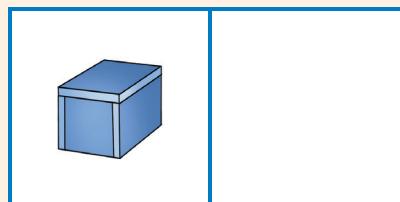
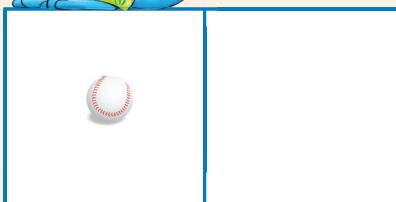
Izinto ezinemilinganiselo emi-3 (3D)



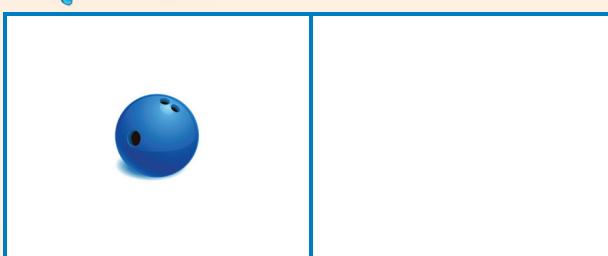
Phawula eyona incinane.



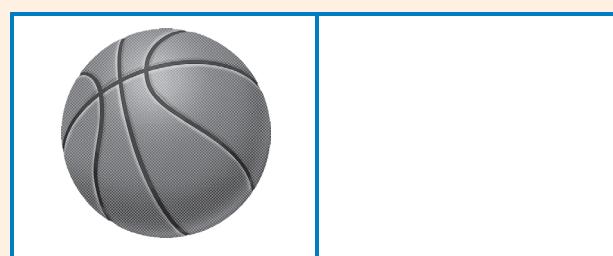
Zoba enkudlwana kwicala langasekunene lomfanekiso ngamnye.



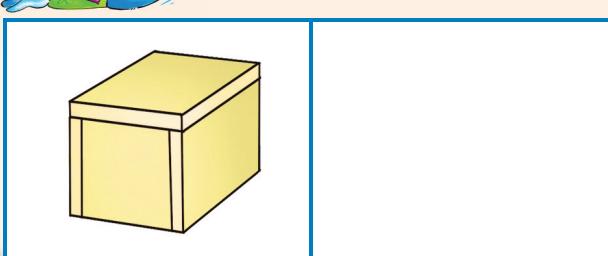
Zoba ibhola enkudlwana kunebhola ezuba.



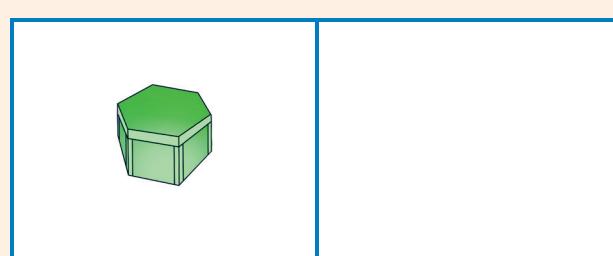
Zoba ibhola encinane kunebhola engwevu.



Zoba ibhokisi encinane kunebhokisi emthubi.

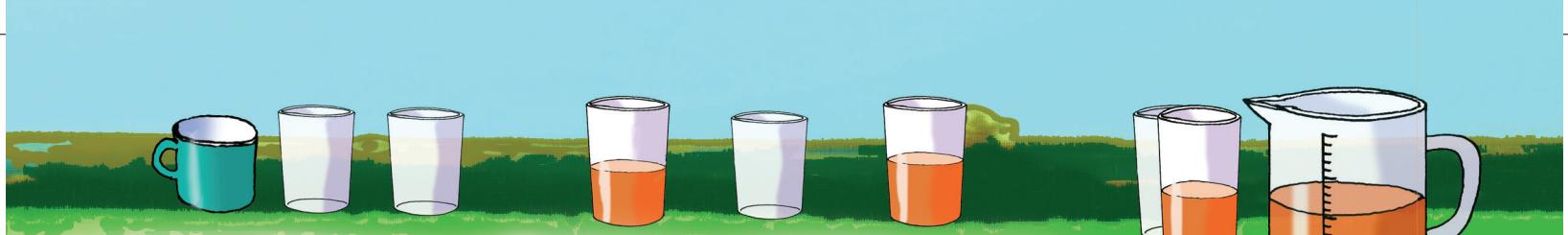


Zoba ibhokisi enkudlwana kunebhokisi eluhlaza.

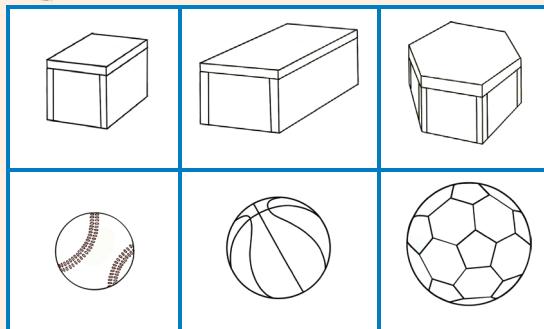


46

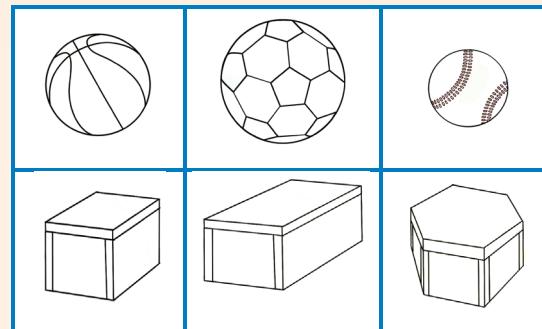
0 1 2 3 4 5 6 7 8 9 10



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

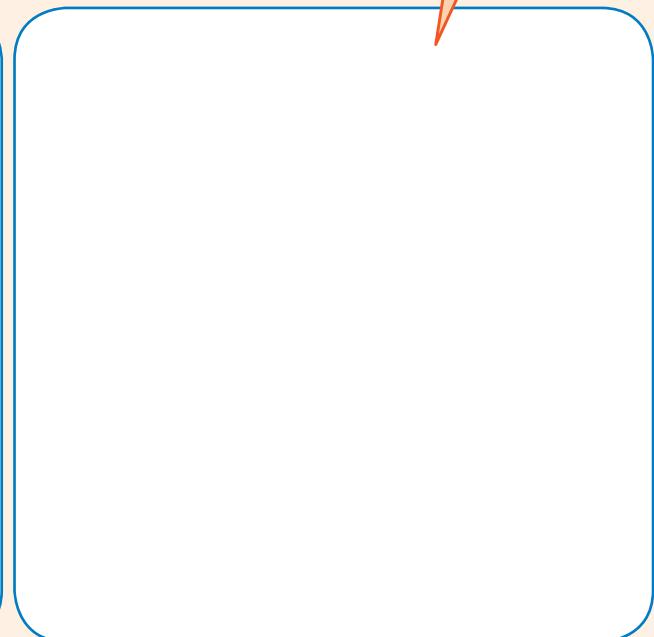
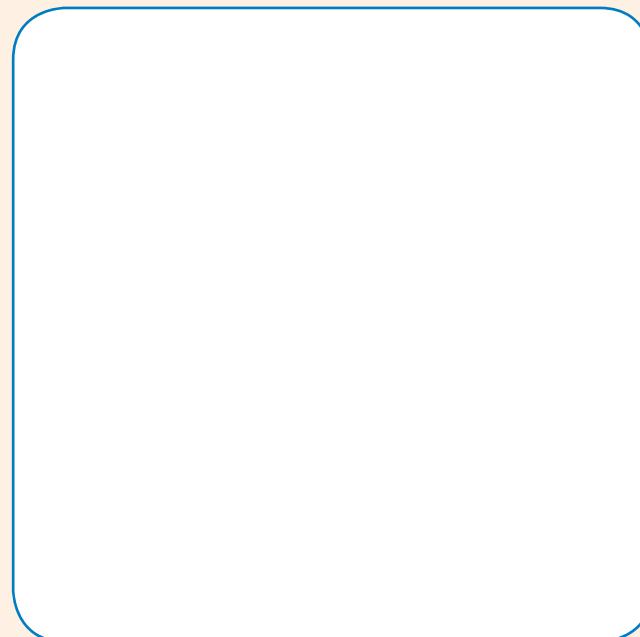
ewe hayi

ewe hayi



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

Khumbula ukuba ezi
ncochoyi kufuneka
zingawi.



88



Ikota 3



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



48

0

1

2

3

4

5

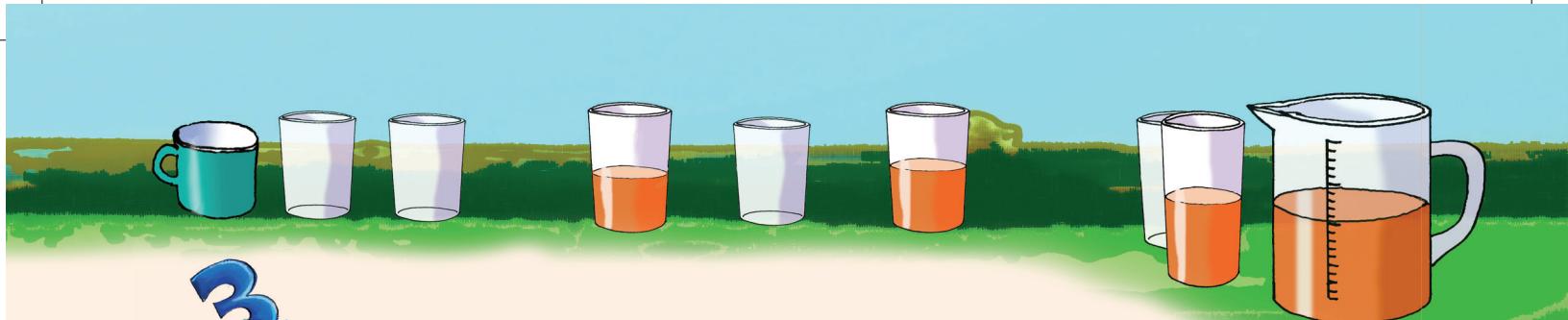
6

7

8

9

10



Hlela ezi zinto zilandelayo ngokuthi uzizobe kwibloko echanekileyo.

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



Hlela ezi zinto ngokobukhulu bazo uze uzizobe.

	Iibhola ezincinci	Iibhokisi ezincinci
	Iibhola ezinkulu	Iibhokisi ezinkulu

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Umhla:

Ikota 3

Iipatheni zejometri

Uhlaziyo:

Zoba ezi zinto:

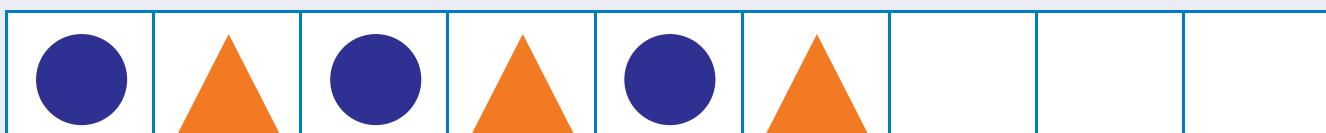
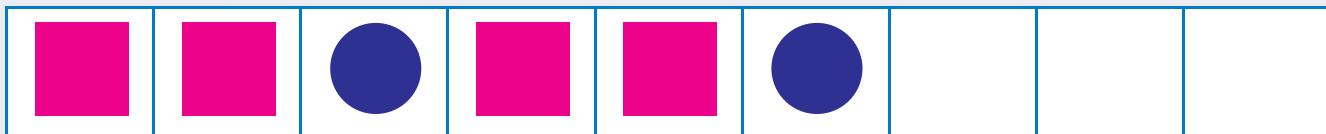
uxande

isikwere

isangqa



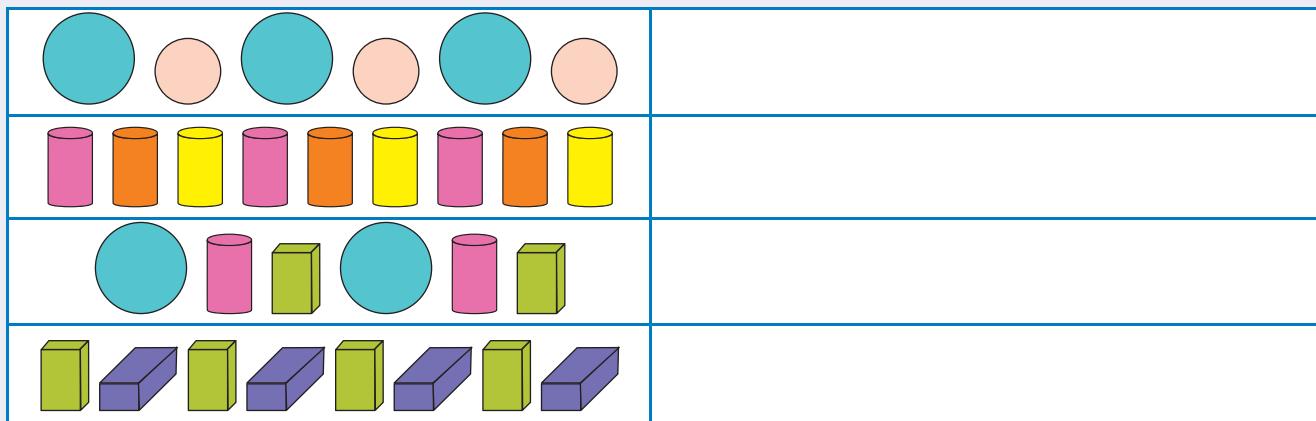
Gqibezela ipatheni.



0 2 3 4 5 6 7 8 9 10



Zoba imifanekiso ukuze uqhubeke nepatheni.



Zoba eyakho ipatheni.



Ncamathelisa imifanekiso wenze eyakho ipatheni.

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



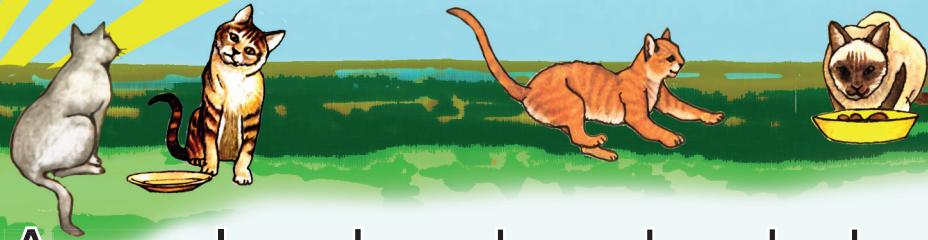
Gqibezela le patheni.

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

11 12 13 14 15 16 17 18 19 20



90



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.



$$2 + 2 =$$

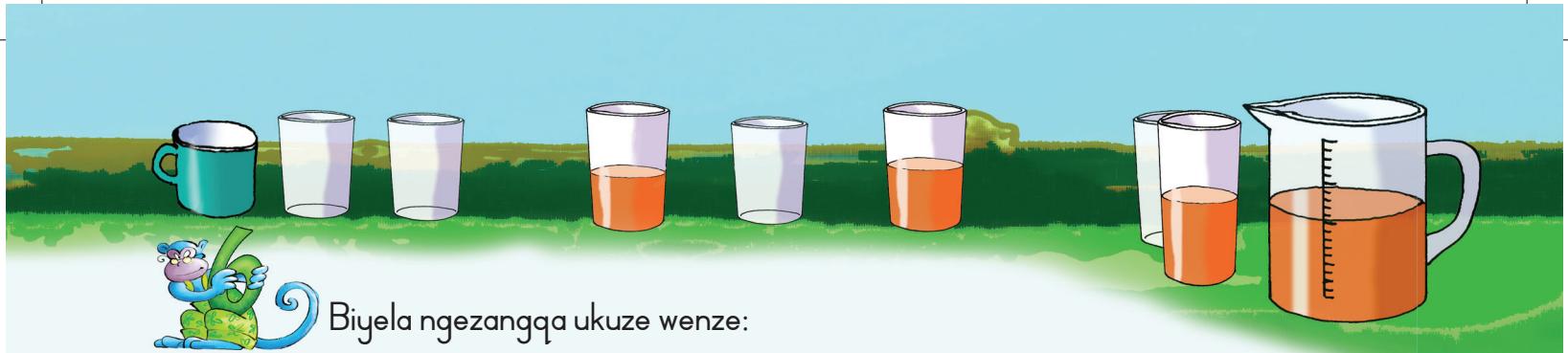


$$2 + 2 + 2 =$$



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



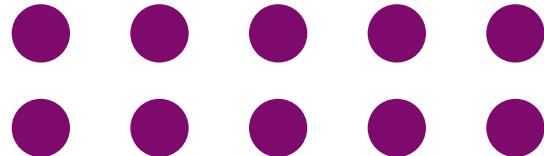


Biyela ngezangqa ukuze wenze:

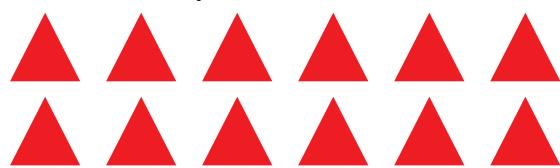
Amaqela ama - 4 ezi - 2



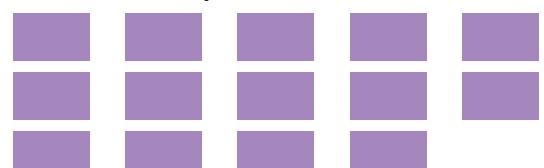
Amaqela ama - 5 ezi - 2



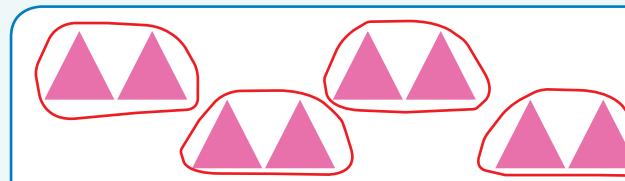
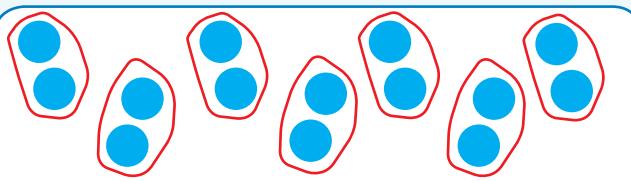
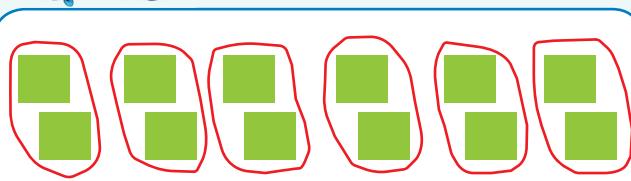
Amaqela ama - 6 ezi - 2



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

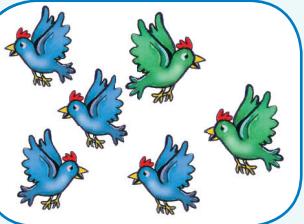
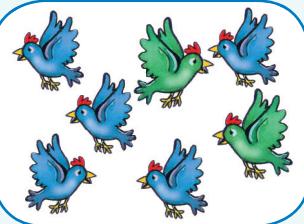
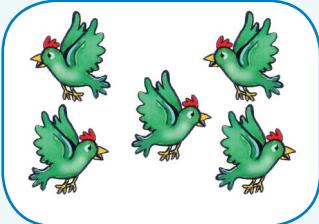


Ikota 3

Ukudibanisa izibini eziphindiweyo ukuya kutsho kwi-15



Mangaphi amanqina akhoyo?



Uwabale njani?



Zoba iimilo ubonise oku kulandelayo:

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



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



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



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



54

0

1

2

3

4

5

6

7

8

9

10



Bhala izivakalisi - manani.

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

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

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

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



Biyela uze ubale inani lamaqela ezibini onokuwenza kwikhadi ngalinye.

<input type="text"/>									
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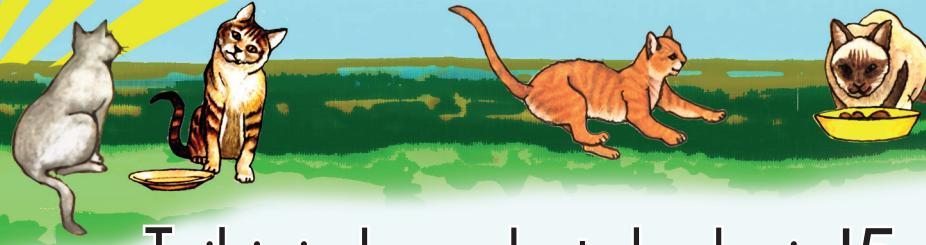
Gqibezela le patheni yamanani oza kuwasebenzisa ekwenzeni amaqela ezibini.

1	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5					

II I2 I3 I4 I5 I6 I7 I8 I9 20



q2



Umhla:

Ikota 3



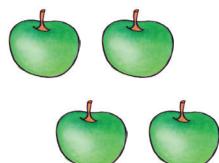
Fakela amanani ashiiyiweyo.

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

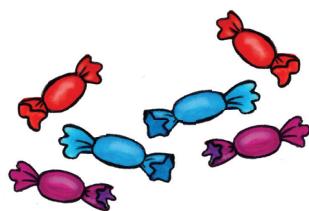


Yenza amaqela ezibini.

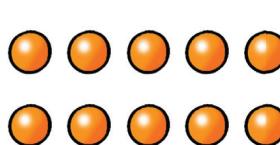
Biyela ngesangqa iqela ngalinye lezibini.



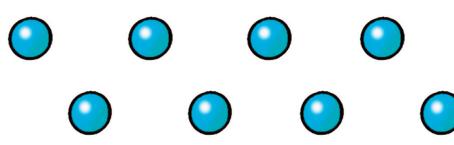
Mangaphi amaqela ama-apile
akhoyo?
Uza kufumana ama-apile amangaphi
umntwana ngamnye?



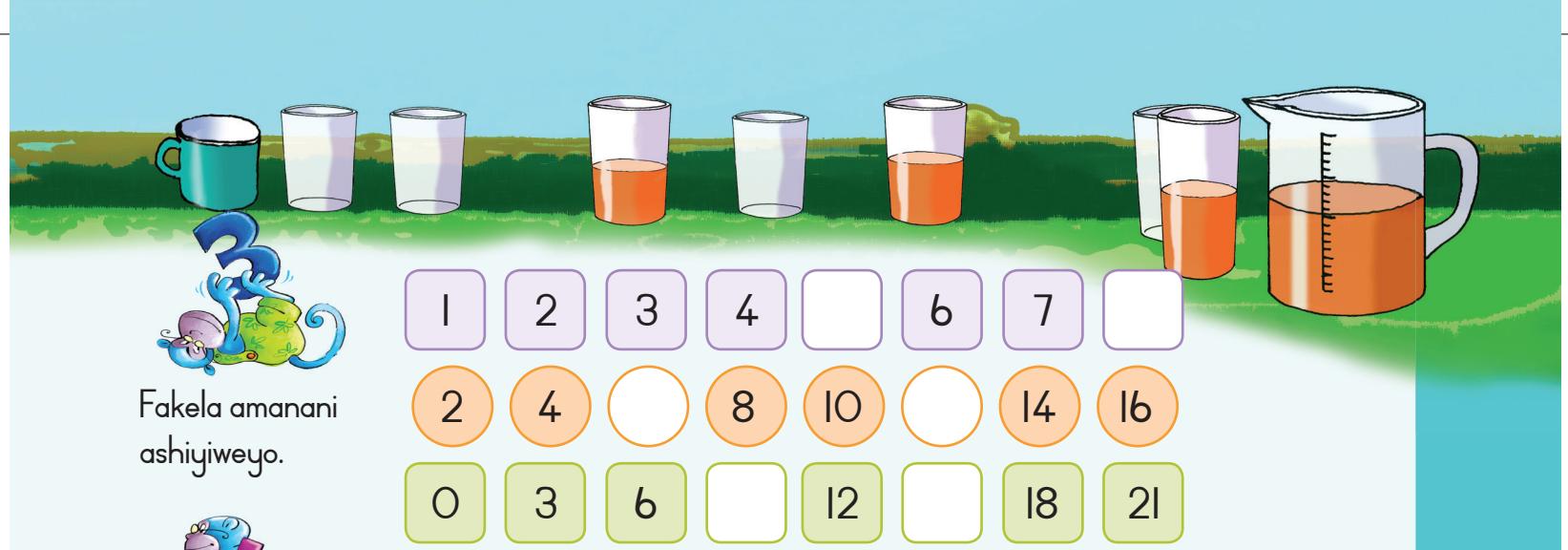
Mangaphi amaqela eelekese
akhoyo?
Uza kufumana iilekese ezingaphi
umntwana ngamnye?



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



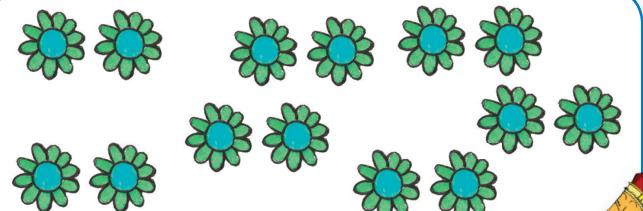
Mangaphi amaqela amapetyu
akhoyo?
Uza kufumana amapetyu
amangaphi umntwana ngamnye?



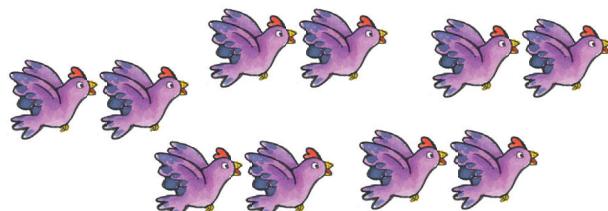
1	2	3	4		6	7	
2	4		8	10		14	16
0	3	6		12		18	21



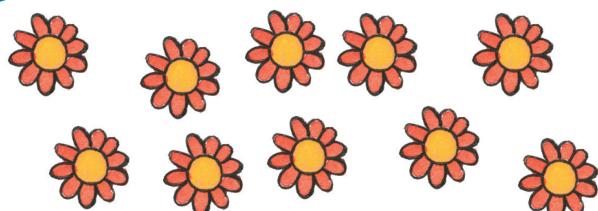
Bhala isivakalisi - manani usebenzise izibini.



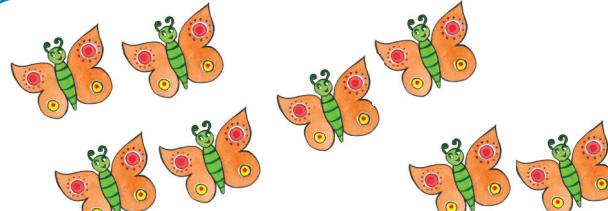
$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{14}$$



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--	--



Bala:

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

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

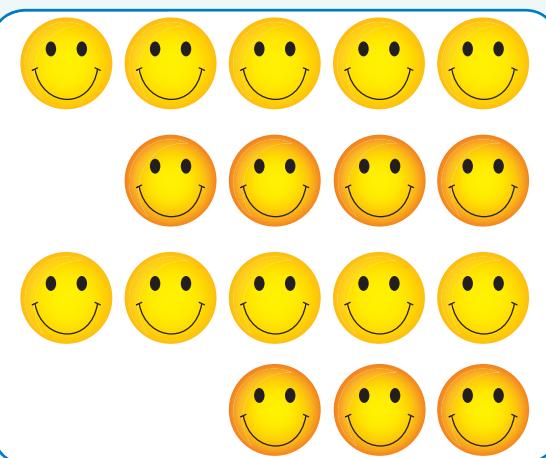
$$2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$

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

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



Biyela amaqela ezibini kumgca ngamnye.



Teacher: _____
Sign: _____
Date: _____



q3



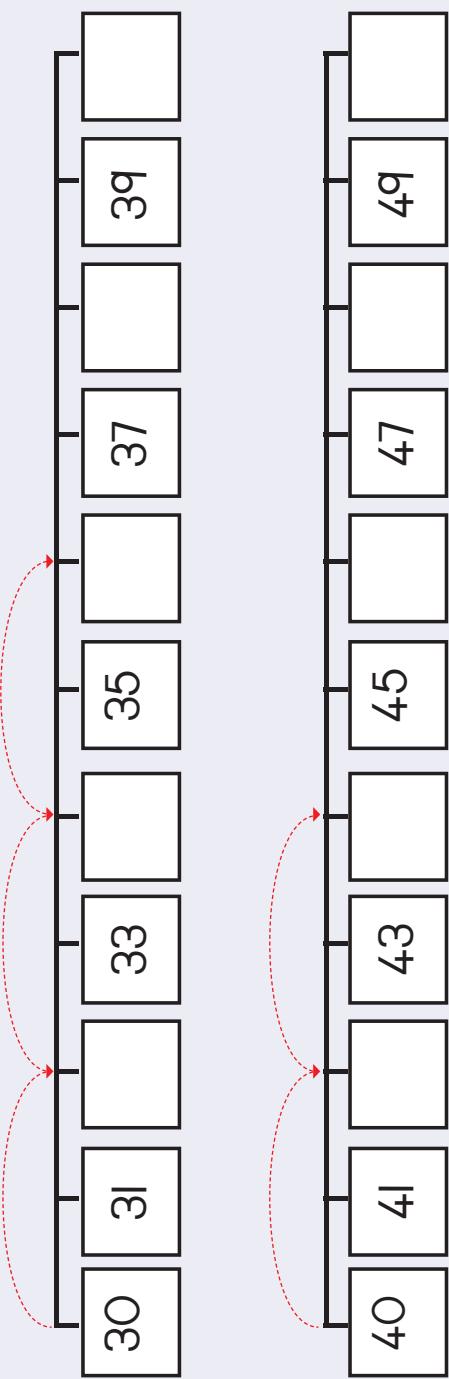
Umhla:

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

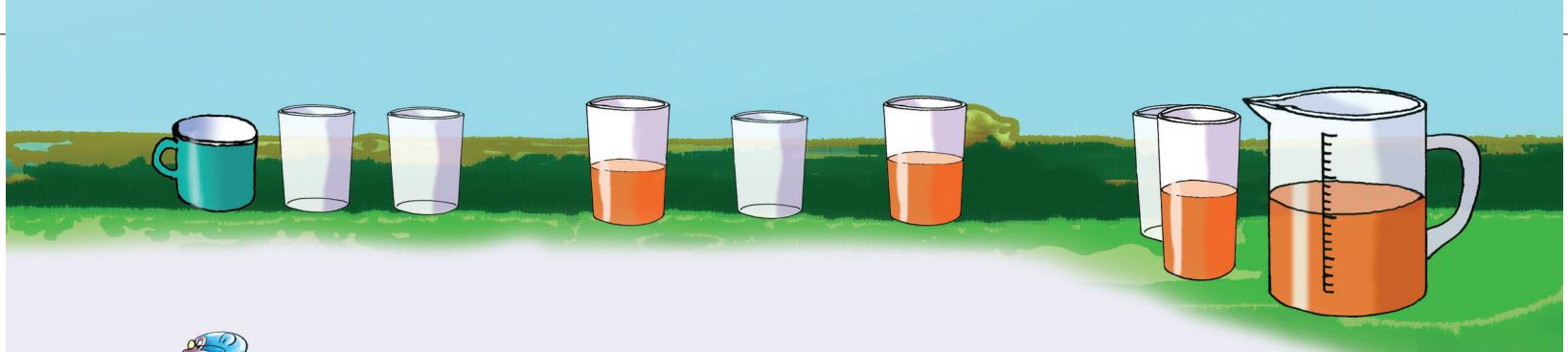
40, 42, 44

38 40 42 44 46 48

46, 48, 50

40 42 44 46 48 50

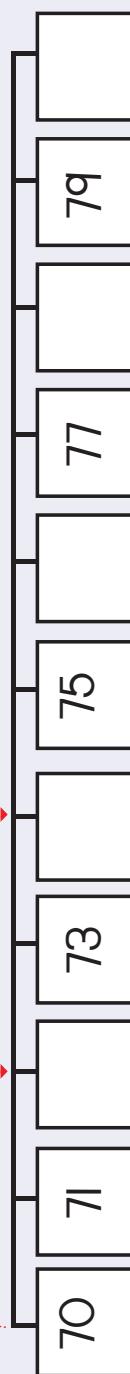
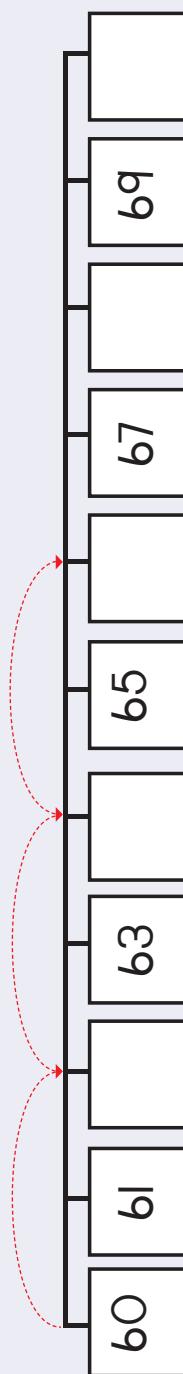




Sika amanani kuMsiko 2 uze uwancamathelese kumgca - manani.
Gqibezela izazinge.



Gqibezela ipatheni ngokufakela
imibala kumanani achanekileyo.

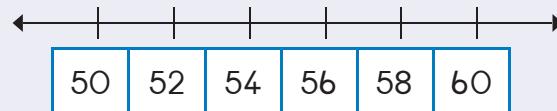


61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

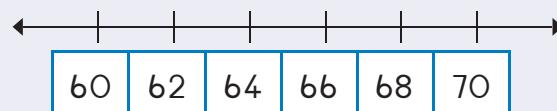


Zoba izazinge ubonise oku
kulandelayo:

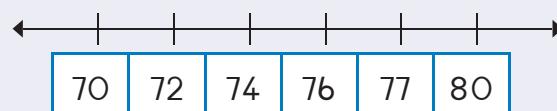
54, 56, 58



64, 66, 68



72, 74, 76



Teacher:
Sign:
Date:



q4



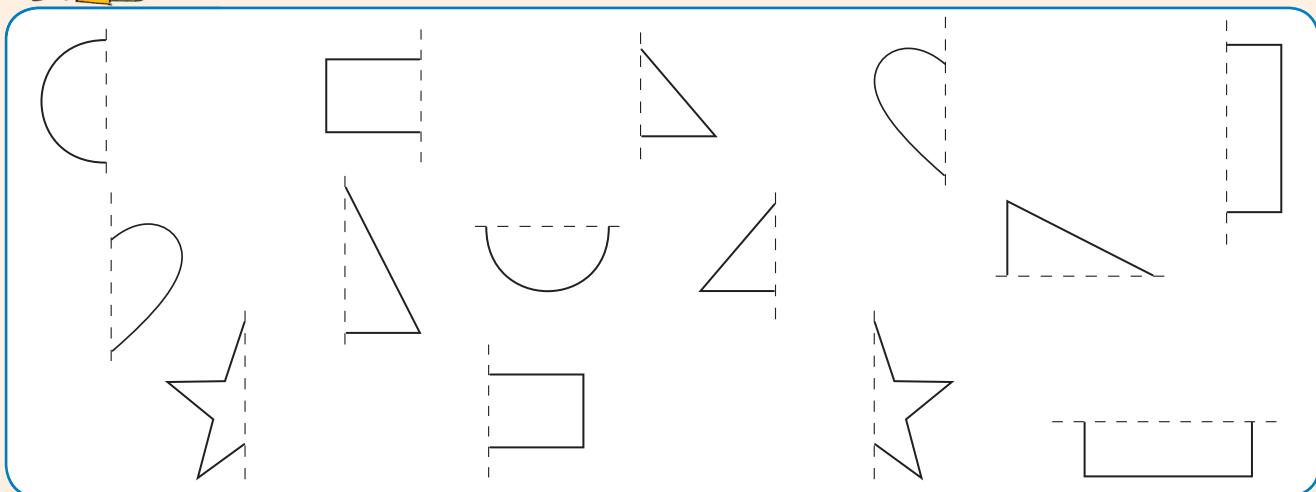
Umhla:

Ikota 3

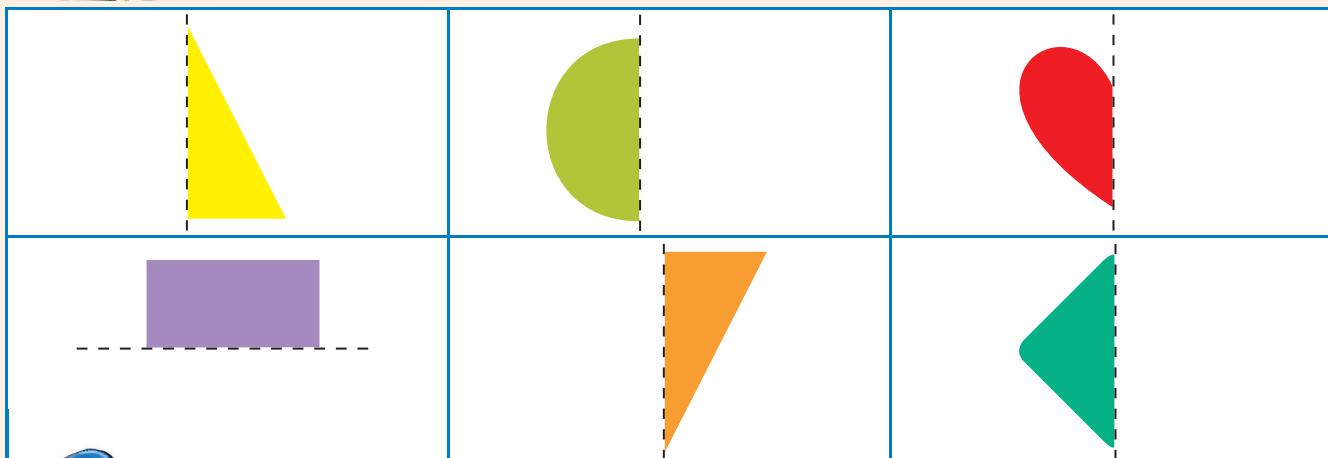
Umatwa-totse



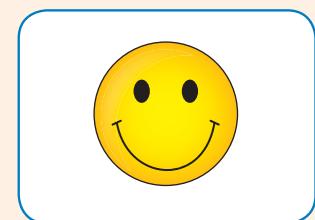
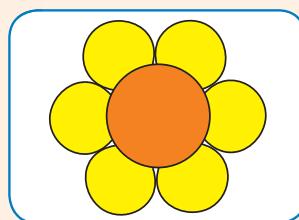
Faka umbala kwiiinxaleny zeemilo eziza kwenza imilo enye.



Zoba esinye isiqingatha uze usifakele umbala.



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



60

0

1

2

3

4

5

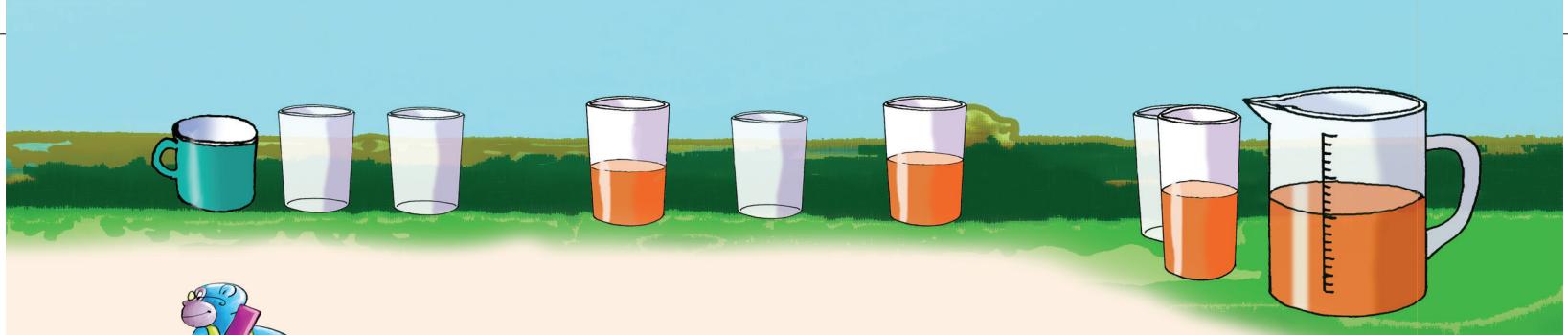
6

7

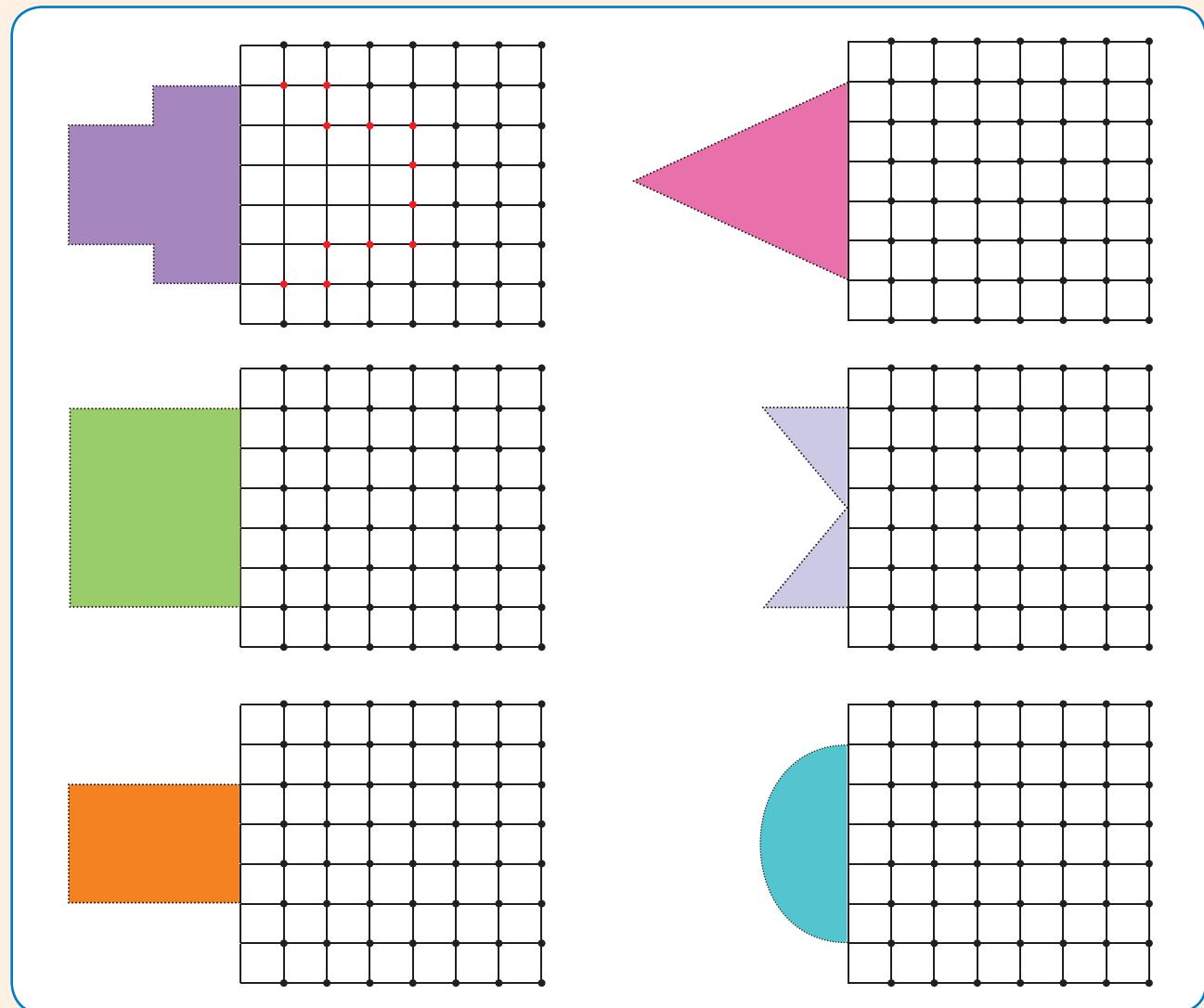
8

9

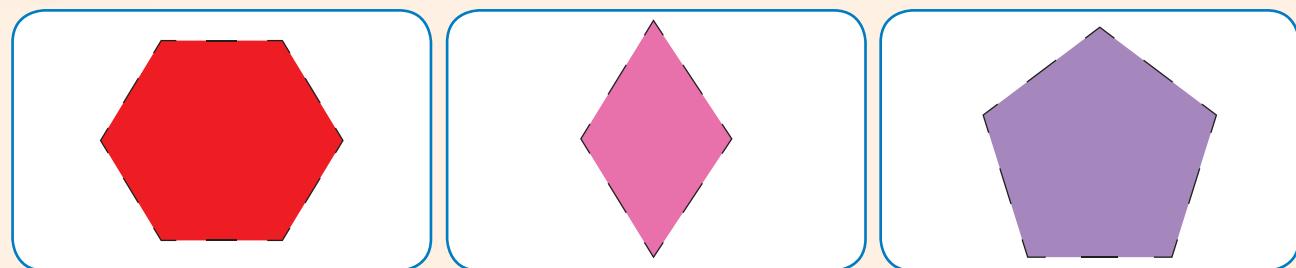
10



Zoba elinye icala lemilo usebenzise ibhodi yegridi ikuncede.



Krwela umgca wahlule ezi milo zibe ngamacala amabini afana twatse.



Teacher:
Sign:
Date:



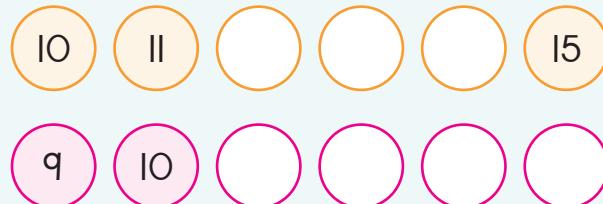
q5



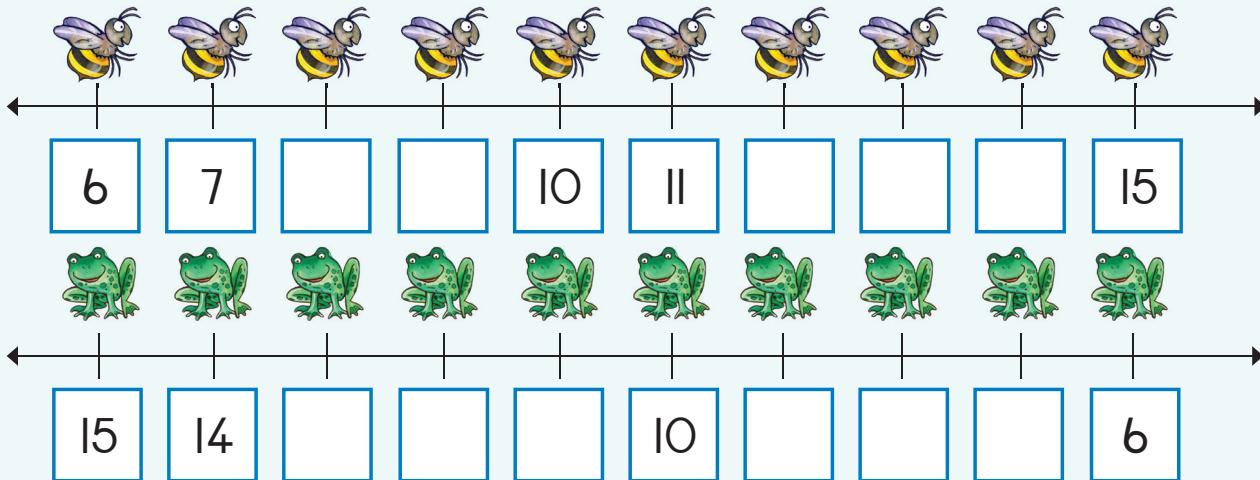
Ikota 3



Fakela amanani ashiiyiweyo.



Bhala impendulo.

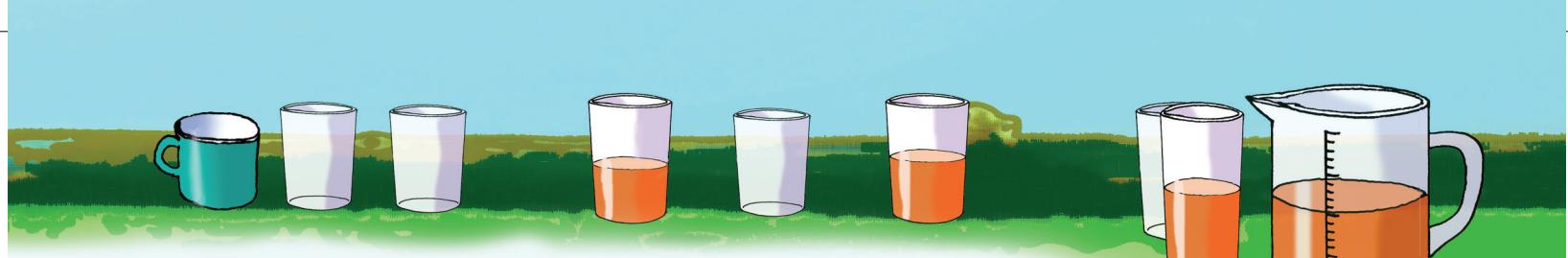


Bhala impendulo.

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

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





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

10 + 1 obomvu

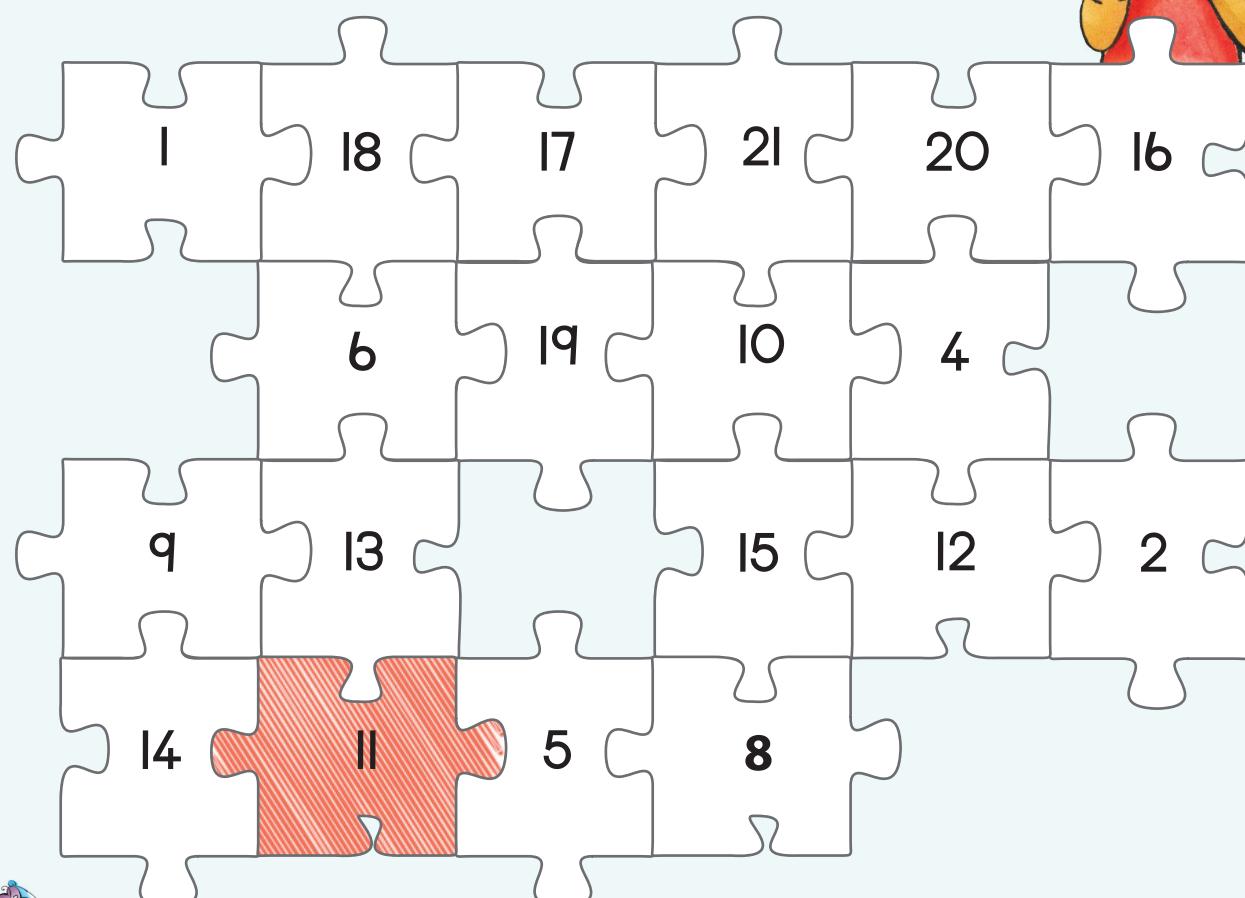
10 + 3 opinki

10 + 5 ozuba

10 + 4 omthubi

10 + 0 oluahlaza

10 + 2 o-orenji



Bonisa ishumi nesine kumgca-manani:



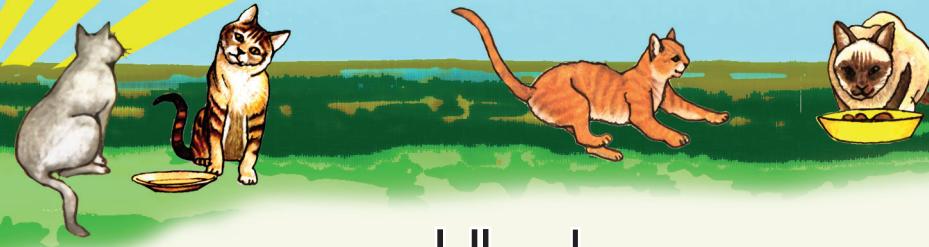
Teacher: Sign:
Date:

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

11 12 13 14 15 16 17 18 19 20



96



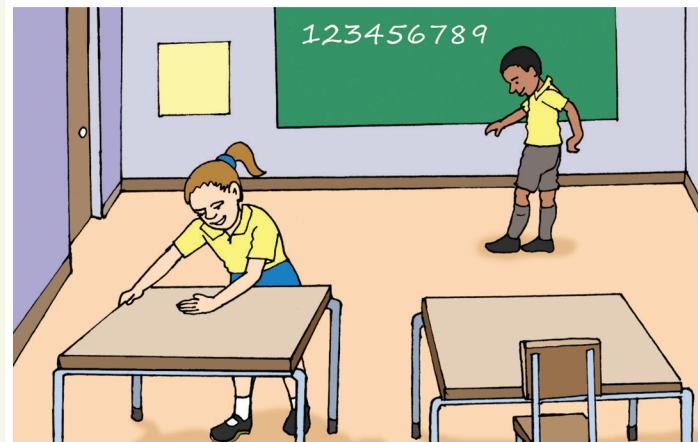
Ubude

Ikota 3



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

Zingaphi izandla zakho ezenza ububanzi?

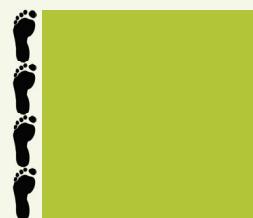


Ubude buzizandla ezi _____.

Ububanzi buzizandla ezi _____.



Zingaphi iinyawo emacaleni?



Bhala impendulo.



Ubude buzizandla ezi _____.



64

0

1

2

3

4

5

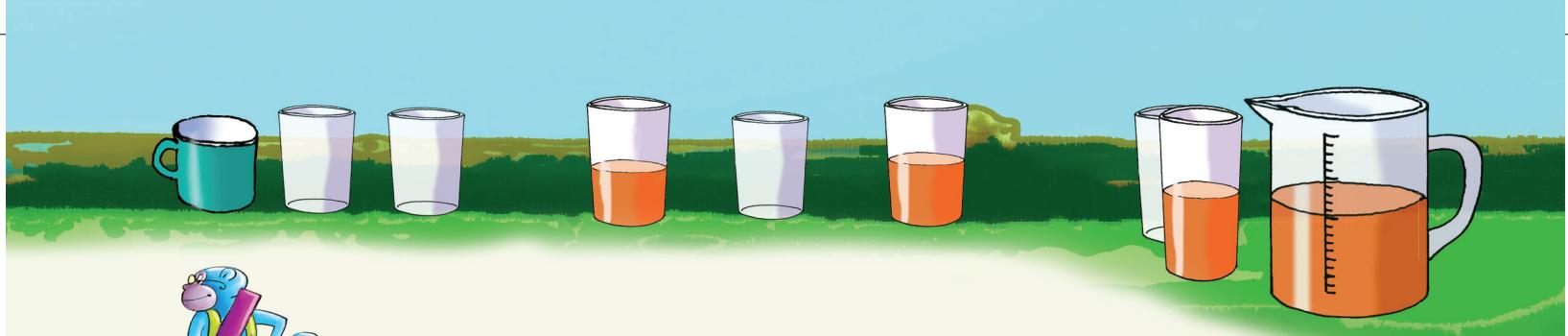
6

7

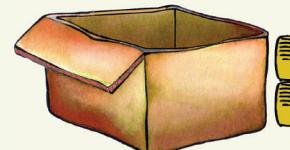
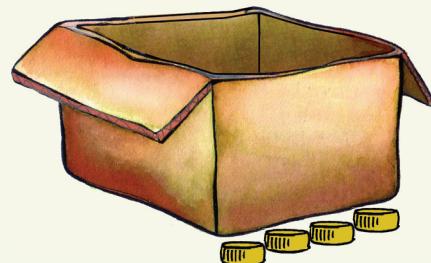
8

9

10



Buyintoni ubude nobubanzi bale bhokisi?

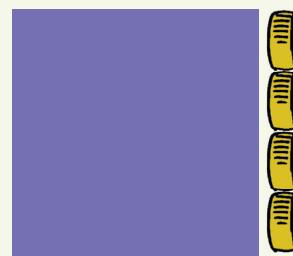
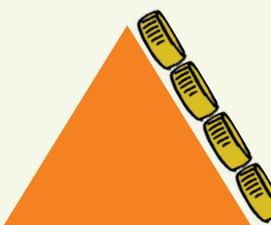


Ubude bungangeziciko zeebhotile ezi _____.

Ububanzi bungangeziciko zeebhotile ezi _____.



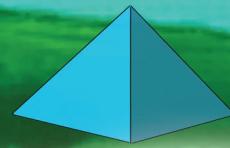
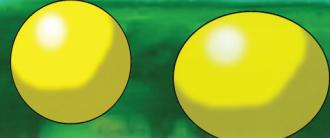
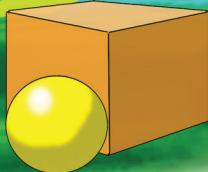
Ingaba icala lide kangangeziciko zeebhotile ezingaphi?



Teacher:
Sign:
Date:



97



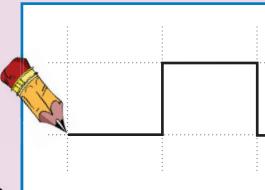
Inani 16

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

7

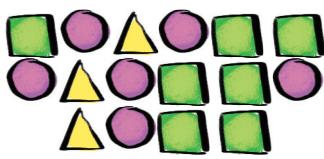
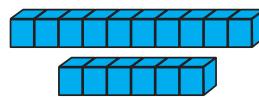
zisixhenxe



Tshatisa imifanekiso.

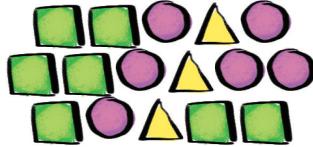


Khuphela amanani.

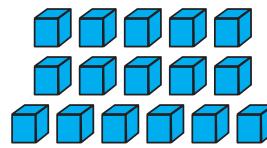


10
6

16



16



10
6

16 16 16 16

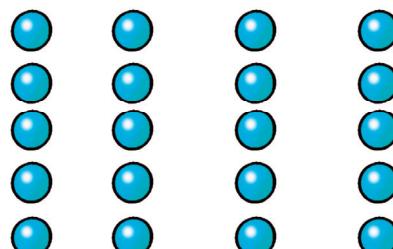
ishumi elinesithandathu

16 16 16 16

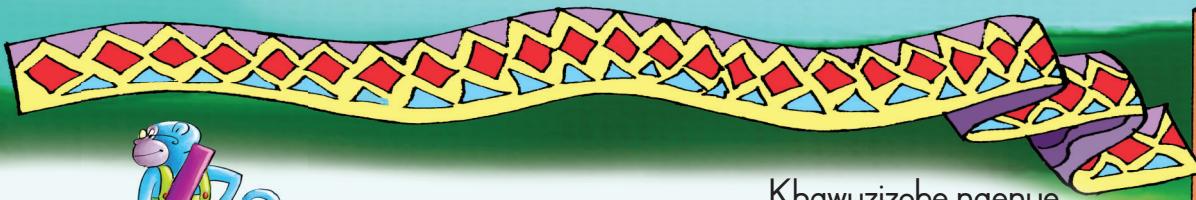
ishumi elinesithandathu



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?

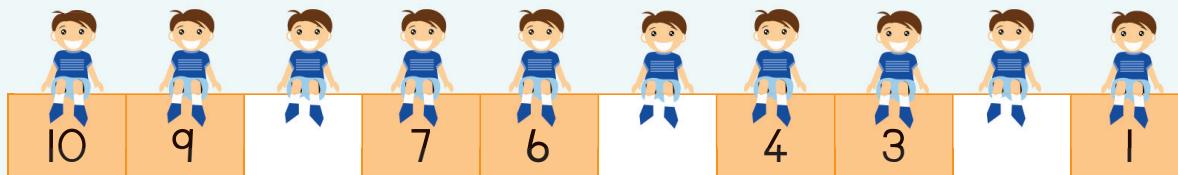
Leliphi inani elinganeno ngesibini kuneshumi elinesithandathu?

Leliphi inani elingaphezulu ngononye kuneshumi elinesithandathu?

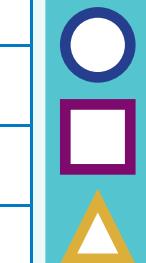
Leliphi inani elingaphezulu ngesibini kuneshumi elinesithandathu?



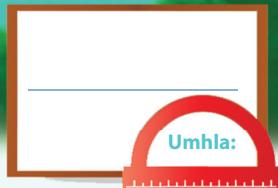
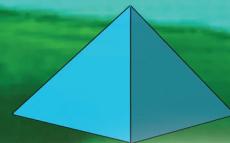
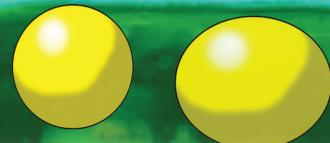
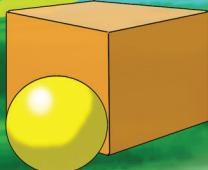
Fakela amanani ashijiwego.



11 12 13 14 15 16 17 18 19 20



98



Ikota 4

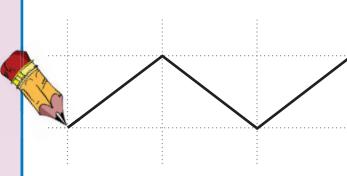
Inani 17

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

8

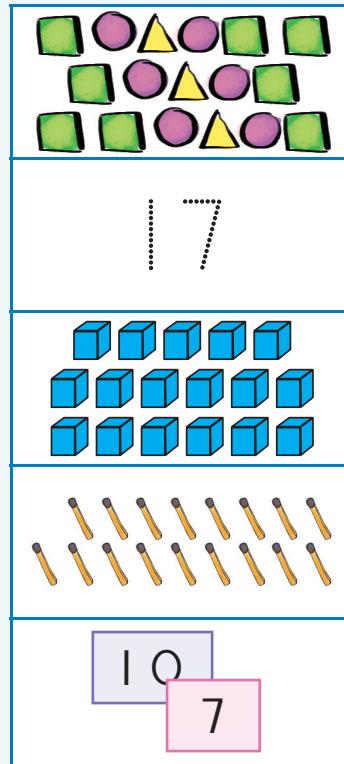
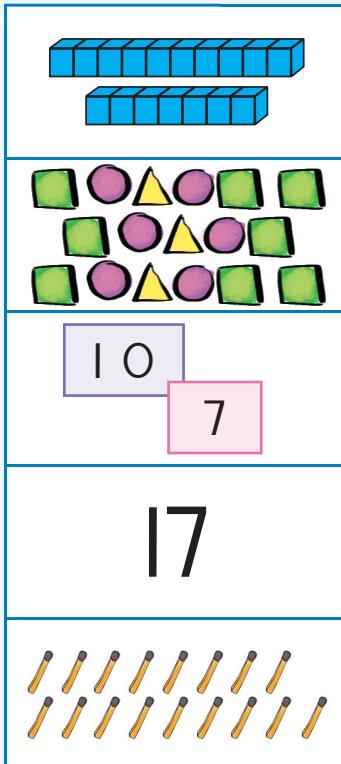
sibhazo



Tshatisa imifanekiso.



Khuphela amanani.



17 17 17 17

ishumi

elinesixhenxe

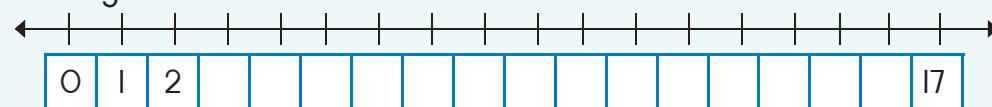
17 17 17 17

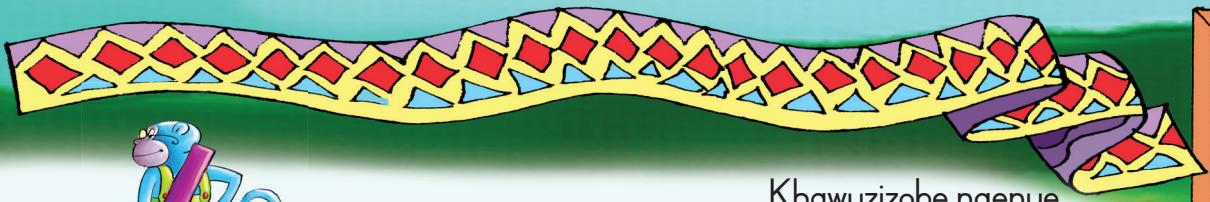
ishumi

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.

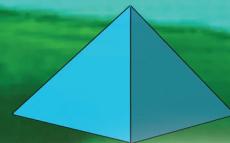
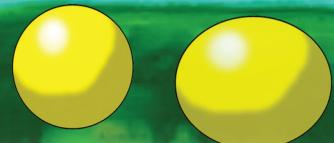
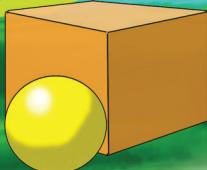
	2		4		6		8		10
	12		14		16		18		20



11 12 13 14 15 16 17 18 19 20



qq



Inani 18

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

q

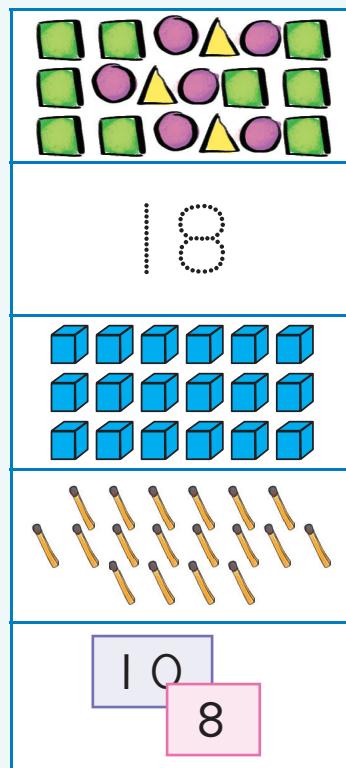
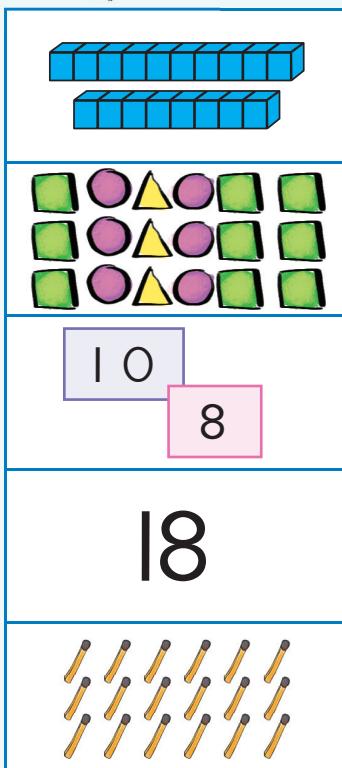
lithoba



Tshatisa imifanekiso.



Khuphela amanani.



18 18 18 18

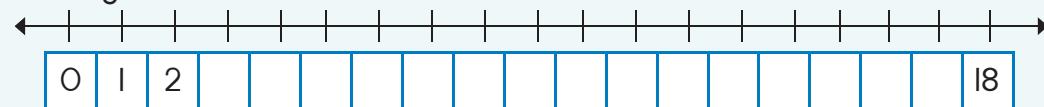
ishumi elinesibhozo

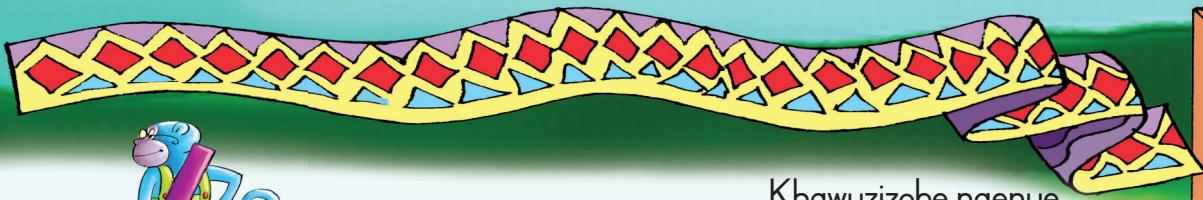
18 18 18 18

ishumi elinesibhozo



Gqibezela umgca-manani.





Zoba izinto ezili-18.

Khawuzizobe ngenye
indlela ke ngoku.



Leliphi inani
elilandelayo?

8	q	
33	34	
0	l	



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

	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 ashiyiqweyo.

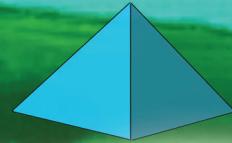
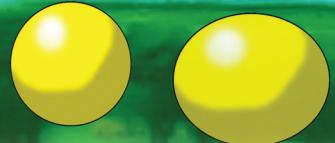
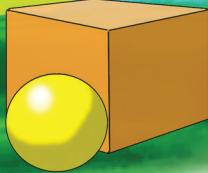


I	2		4	5	6	7		9	10
II		13	14	15		17	18		20

|| 12 13 14 15 16 17 18 19 20



100



Inani |q

Uhlaziyo:

Ziqhelise ukubhala inani ngamagama uze ugqibezele ipatheni.

|o

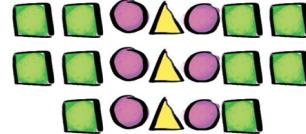
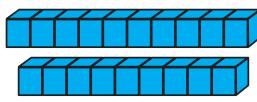
ishumi



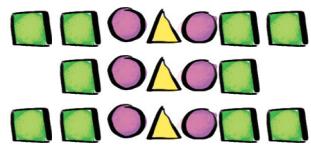
Tshatisa imifanekiso.



Khuphela amanani.



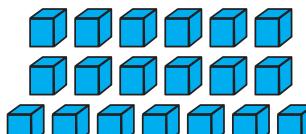
|q



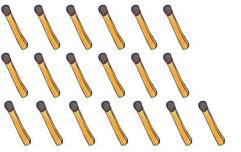
|o

q

|q



|o
q



|q |q |q |q

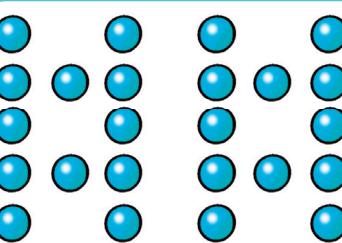
ishumi elinethoba

|q |q |q |q

ishumi elinethoba



Biyela amaso ali-|q kuphela.



Mangaphi ashiyekileyo? _____



0

1

2

3

4

5

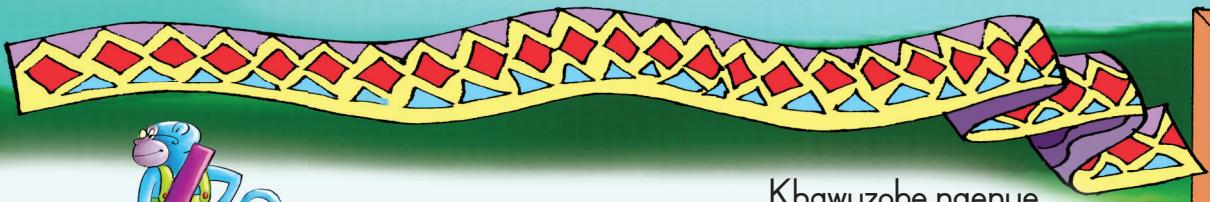
6

7

8

9

10



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.

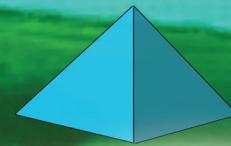
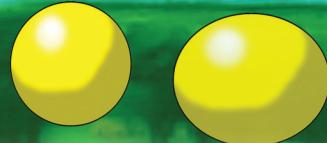
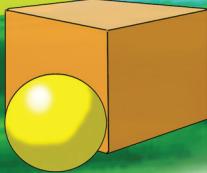
La manani abizwa
ngokuba ngoonombini.

I		3		5		7		9	
II		13		15		17		19	

11 12 13 14 15 16 17 18 19 20



101

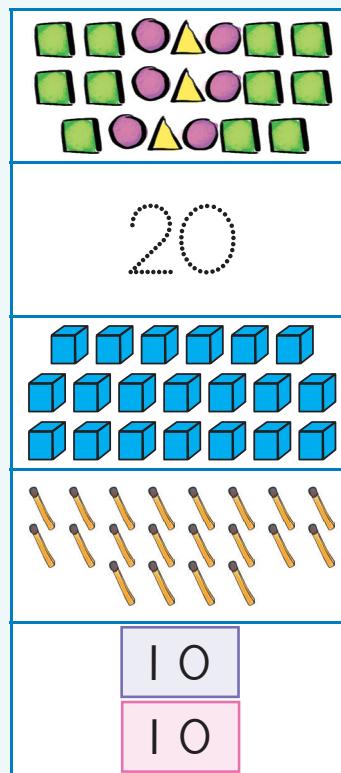
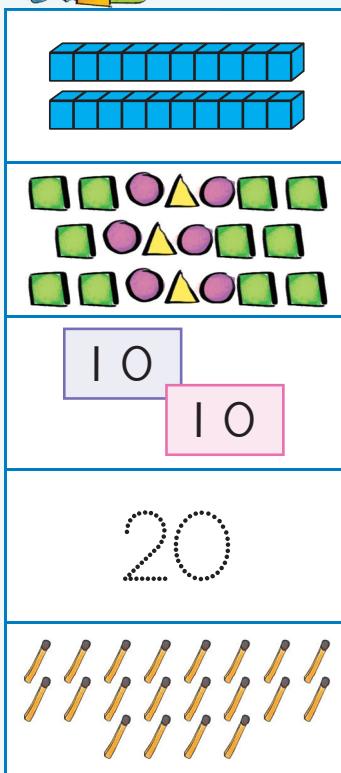


Ikota 4

Inani 20



Tshatisa imifanekiso.



Khuphela amanani.

20 20 20 20

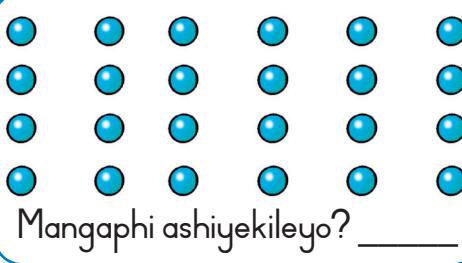
amashumi amabini

20 20 20 20

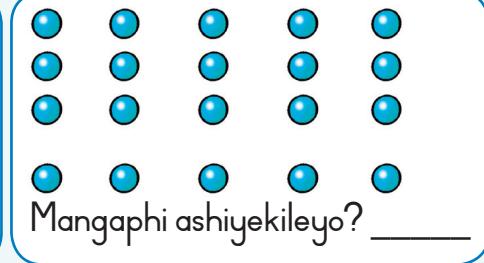
amashumi amabini



Biyela amaso angama-20 kuphela.



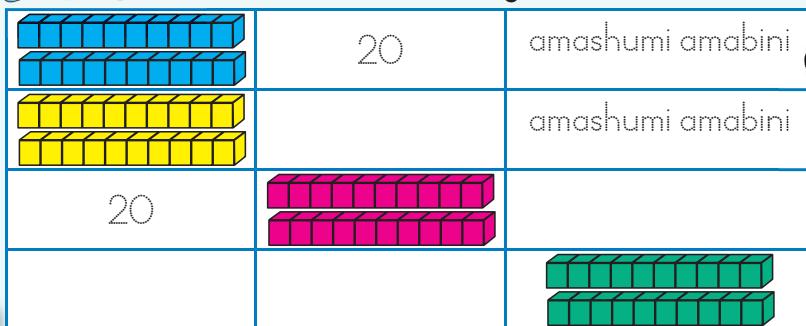
Mangaphi ashiekileyo? _____



Mangaphi ashiekileyo? _____



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



Leliphi inani elingaphenzulu ngononye kunama-20? _____

Leliphi inani elingaphenzulu ngononye kunama-20? _____



0 1 2 3 4 5 6 7 8 9 10



Dibanisa 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



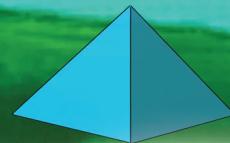
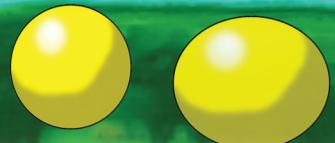
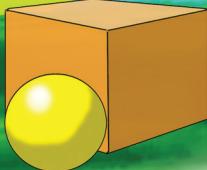
Sebenzisa amagama athi ngaphantsi okanye ngaphezulu ukuze ugqibezele oku:

Ama-34 anga _____ kunama-38

Ama-79 anga _____ kunama-65



102



Ikota 4

Ukudibana



Biyela inani elikhulu kwibloko nganye.

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

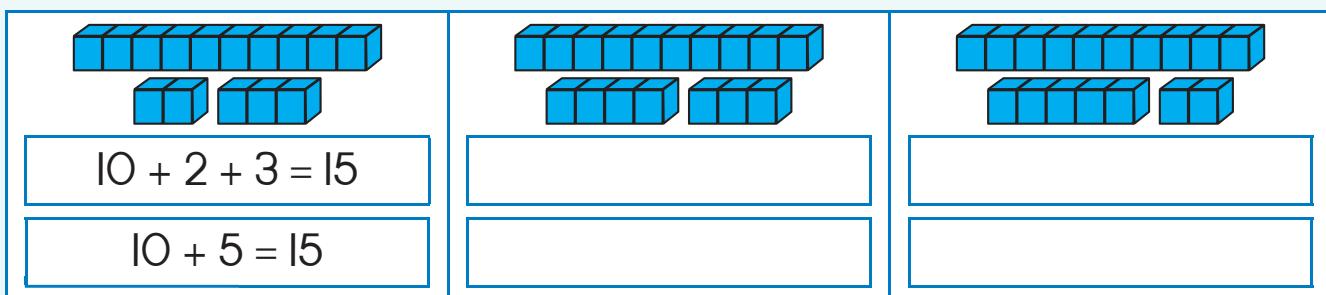


Dibana oku kulandelayo.
Qala ngenani elikhulu.

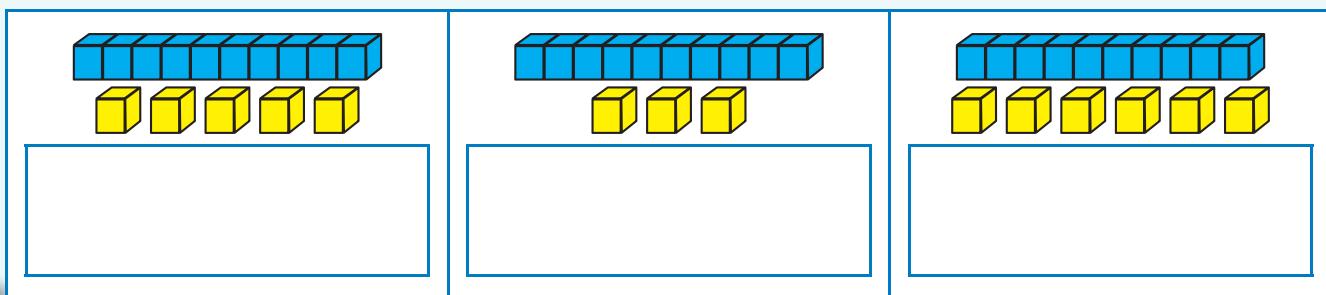
$1 + 1 + 5 =$	$5 + 1 + 1 =$
$6 + 2 + 10 =$	
$3 + 4 + 2 =$	
$2 + 6 + 3 =$	
$1 + 10 + 2 =$	



Dibana iibloko.



Bhala isivakalisi - manani.



76

0

1

2

3

4

5

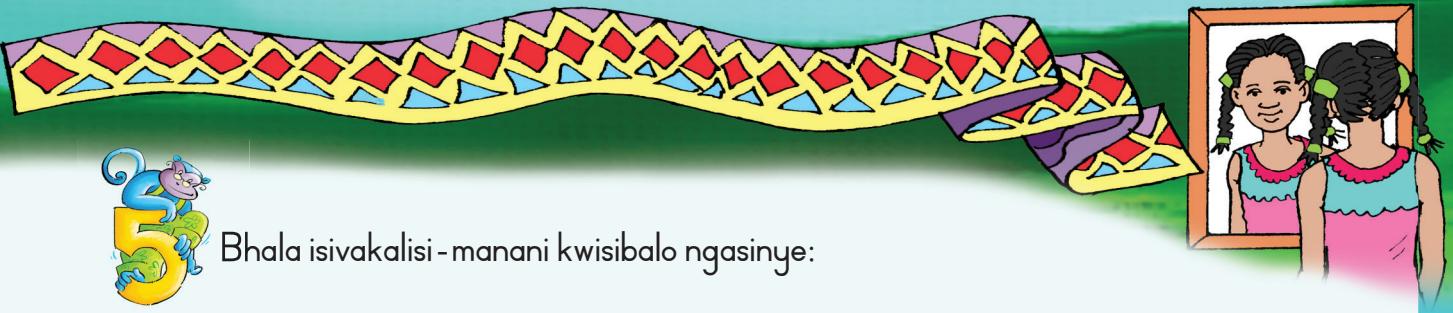
6

7

8

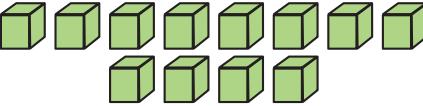
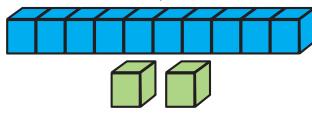
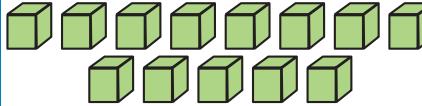
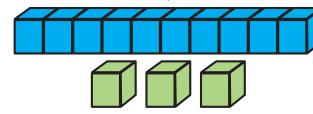
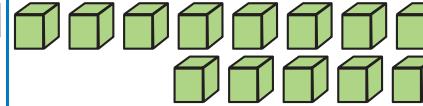
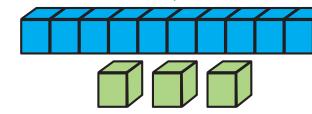
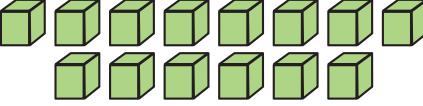
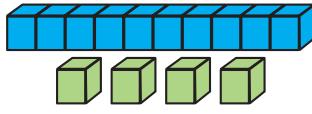
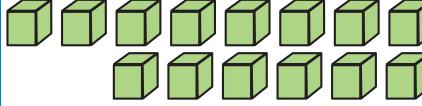
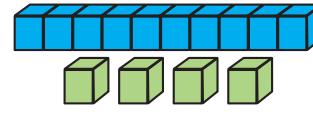
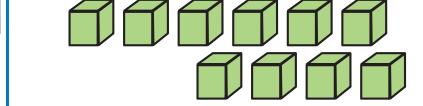
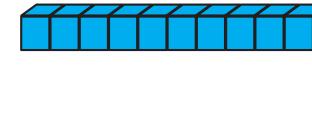
9

10



5

Bhala isivakalisi - manani kwisibalo ngasinye:

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

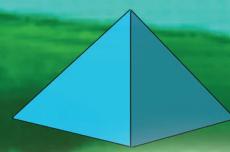
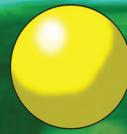
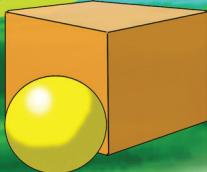


Fakela amanani angekhoyo.

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



103



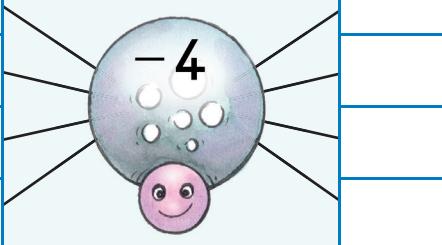
Ikota 4

Ukuthabatha

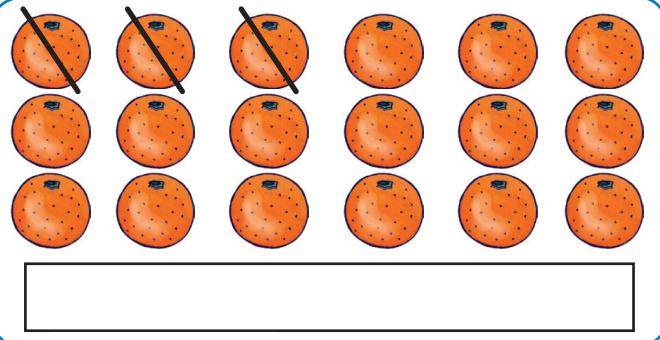


Bala.

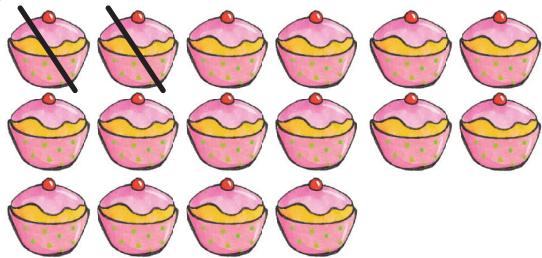
17
19
14
12



Bhala isivakalisi - manani.

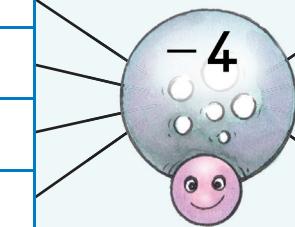


Bhala isivakalisi - manani.

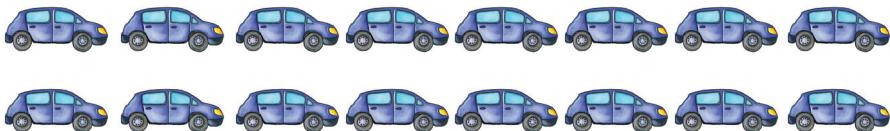


Bala.

18
7
15
9



Gqibezela izibalo usebenzise imifanekiso.



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



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



0

1

2

3

4

5

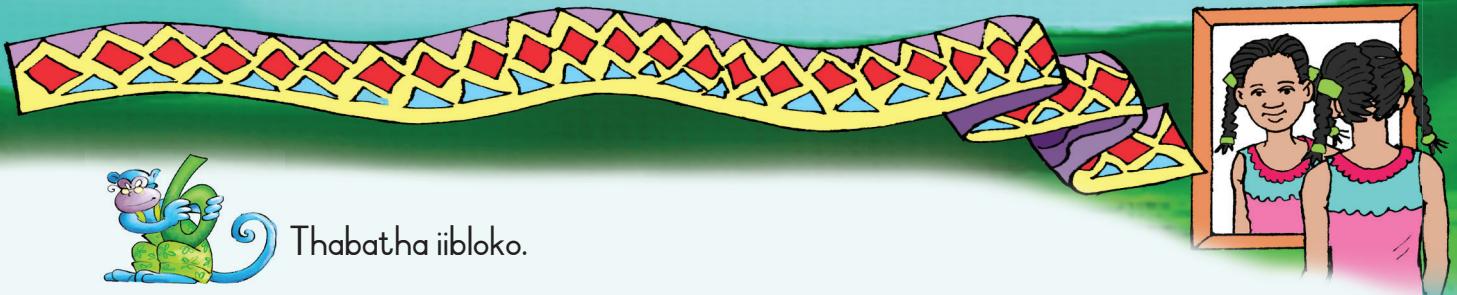
6

7

8

9

10



Thabatha iibloko.

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



Gqibezela:

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



Gqibezela:

Ezi-5 eziphindwe
kabini zenza
Ezi-7 eziphindwe
kabini zenza
i-10 eliphindwe
kabini lenza

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

Ezi-3 eziphindwe
kabini zenza
Ezi-2 eziphindwe
kabini zenza
Ezili-9 eziphindwe
kabini zenza

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

Ezi-4 eziphindwe
kabini zenza
Ezi-8 eziphindwe
kabini zenza
u-1 ophindwe kabini
wenza

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



Phendula:

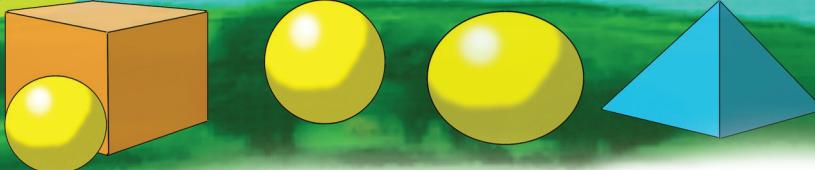
$9 + 9 - 1 =$	<input type="text"/>	okanye	$Phinda kabini 9 - 1 =$	<input type="text"/>
	<input type="text"/>	okanye	$Phinda kabini 5 - 1 =$	<input type="text"/>
$4 + 4 - 1 =$	<input type="text"/>	okanye		

Teacher:
Sign:

Date:



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Ikota 4

Ukudibanisa nokuthabatha



Bala ukuba zingaphi iikati ezigcakamele ilanga.

Ezinye zilele emva kodonga.

Bala ukuba zingaphi ezisemva kodonga uze ubhale impendulo.

3 + = 8

4 + =



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?



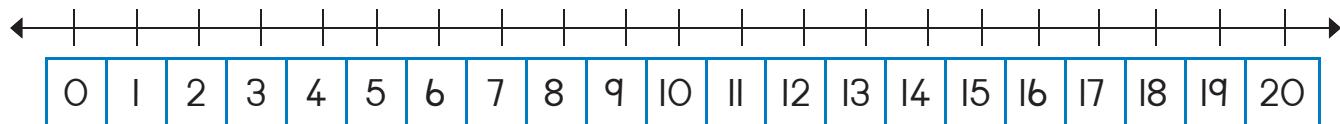
80

0 1 2 3 4 5 6 7 8 9 10

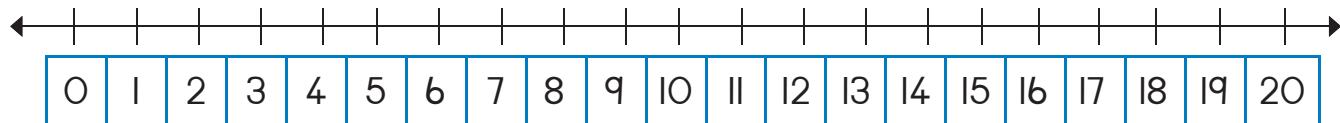


Yenza umgca - manani ukuze usombulule la maqhina ezibalo:

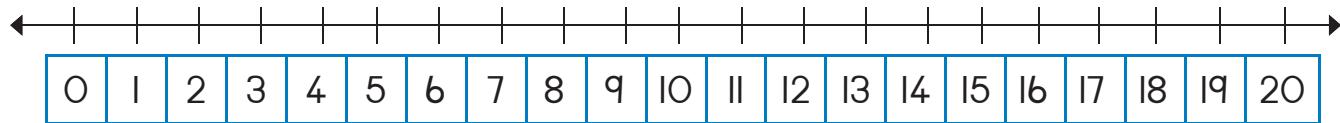
UThandi unamapetyu aluhlaza ama - 6 nazuba ali - 9.
Mangaphi amapetyu anawo ewonke?



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



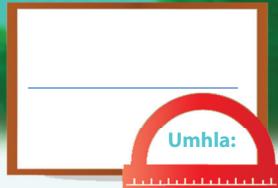
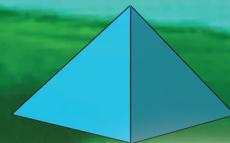
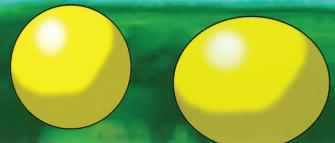
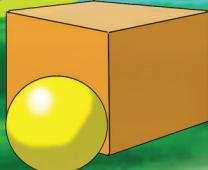
Biyela inani elikhulu ngesi - 2 kunama - 76.

74	75	76	77	78
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11 12 13 14 15 16 17 18 19 20



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Ikota 4

Inani lesingaphi



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

Sipho	Lerato	John	Peter	Ann
<input type="text"/>	<input type="text"/> 2	<input type="text"/> 3	<input type="text"/>	<input type="text"/>



Bazobe
beseqongeni.

Isilivere

Igolide

Ubhedu/ibronzi

Ngubani ofumene imbasa yegolide? _____

Ngubani ofumene imbasa yesilivere? _____



Zoba umtya wamaso
ngolu hlobo:

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.



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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.



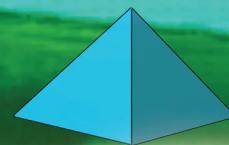
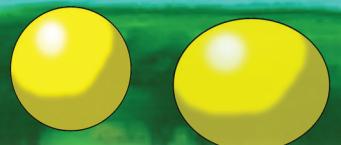
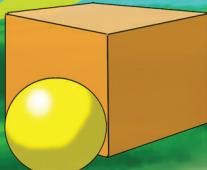
Faka umbala ozuba kwisangqa sesibhozo.



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



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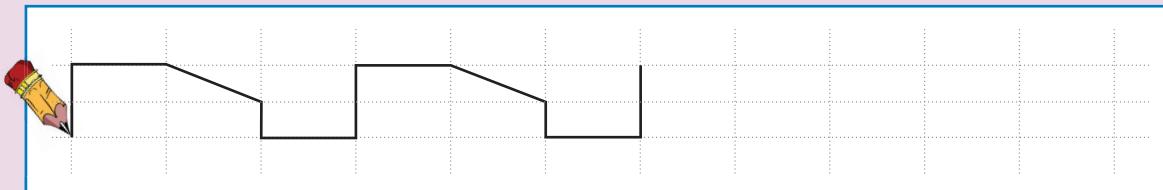


Ikota 4

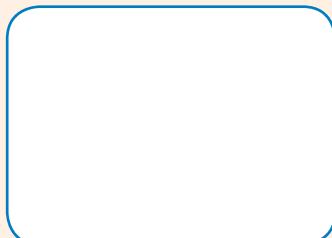
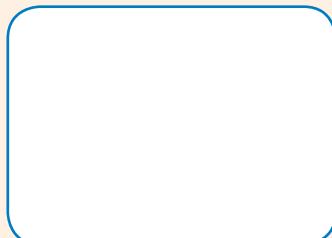
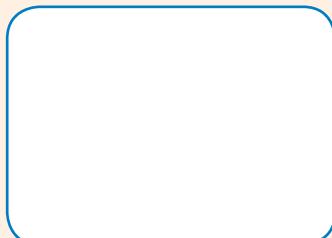
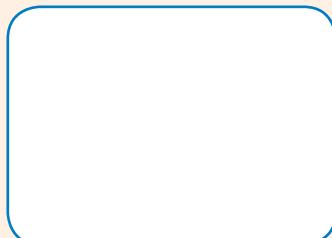
Izinto neemilo

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.



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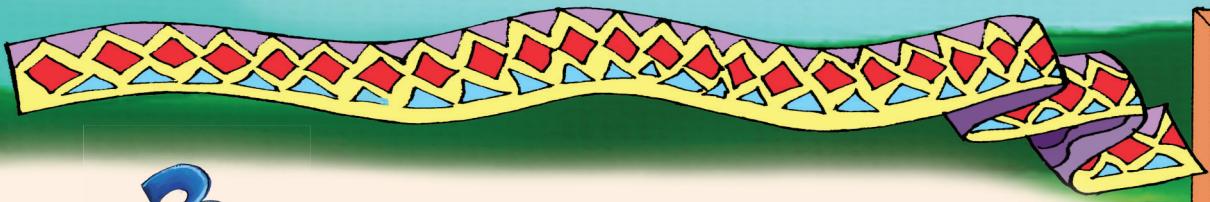
6

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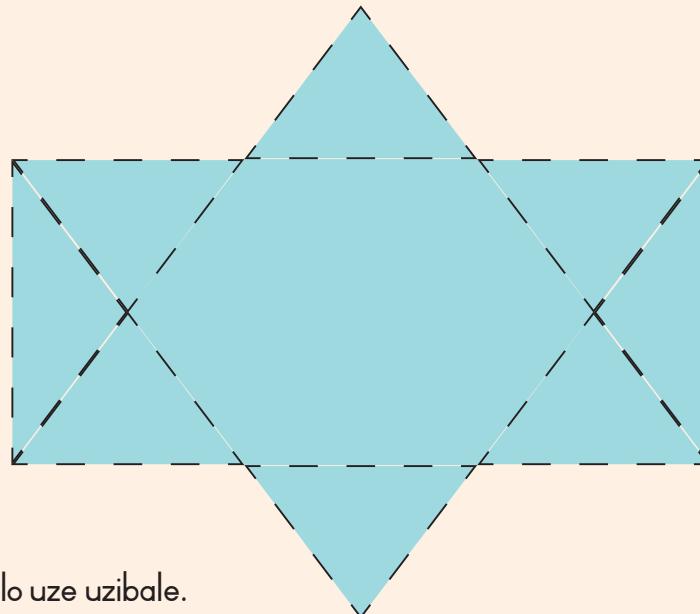
Khuphela igama uze uzobe loo nto liyimeleyo.

ibhokisi



Bala bonke oonxantathu uze ubhale inani labo.

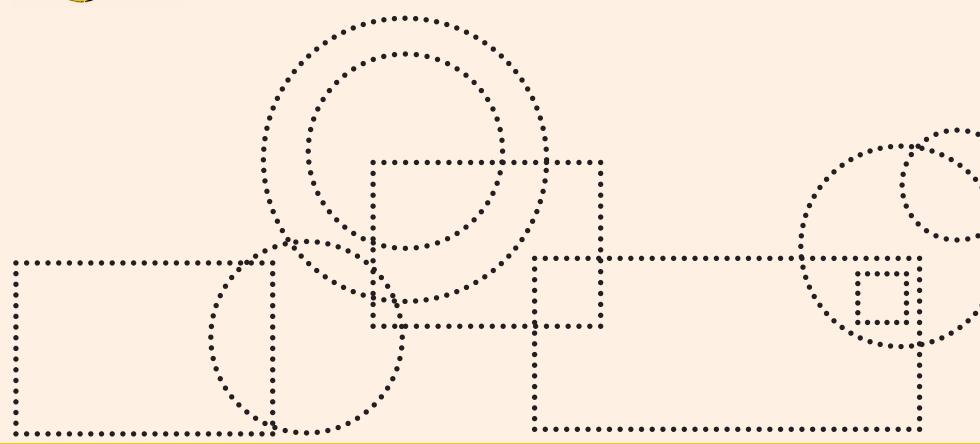
ibhola



Impendulo:



Khuphela iimilo uze uzibale.



Izangqa



Izikwere



Teacher:
Sign:
Date:



11

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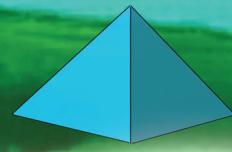
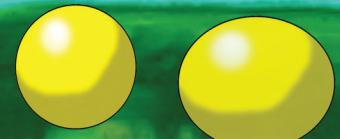
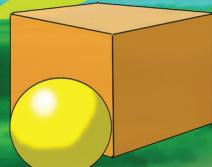
17

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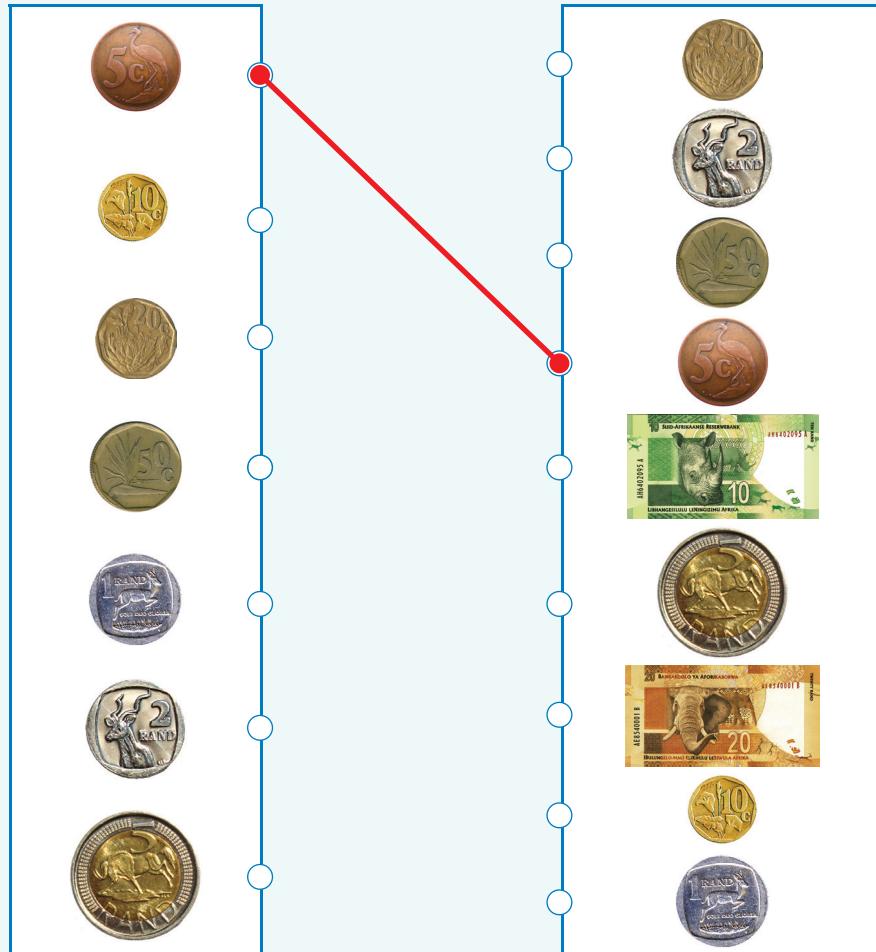
Ikota 4

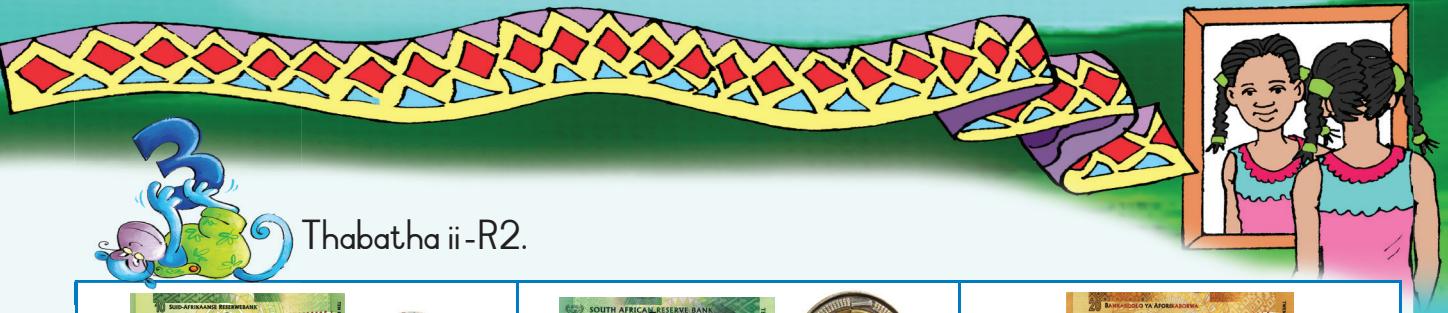


Zeziphi iinkozo
zemali okwaziyo
ukuzitshatisa?



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.

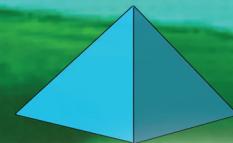
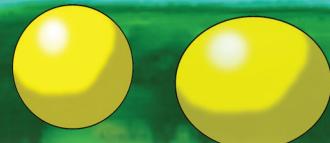
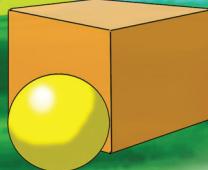
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Biyela imali kumgca
ngamnye ocinga ukuba
unokuthenga kakhulu ngayo.



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Ikota 4

Okunye ngemali

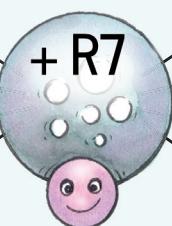


Bala.

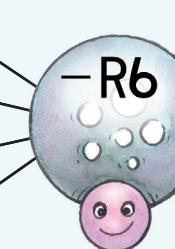


Bala.

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	=
=	=	=	=



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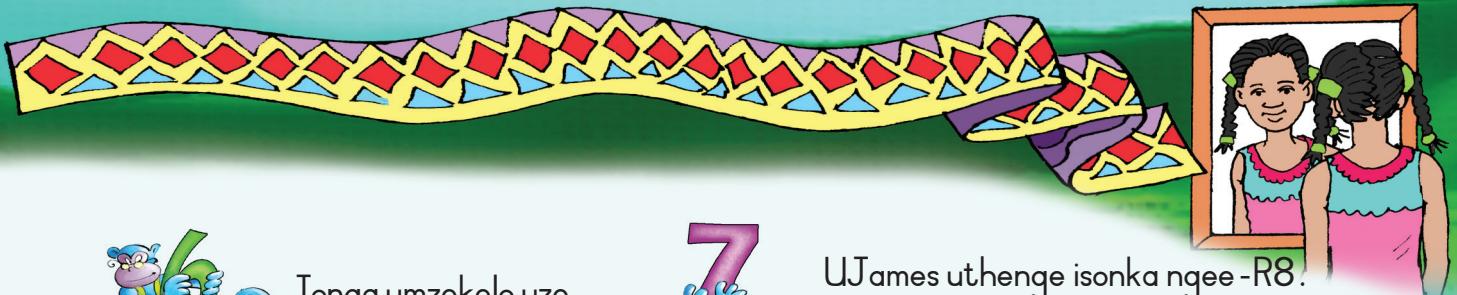
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Jonga umzekelo uze
ugqibezele ezinye.



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 zamaphewha 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.

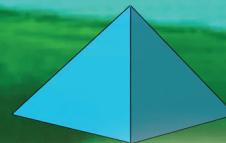
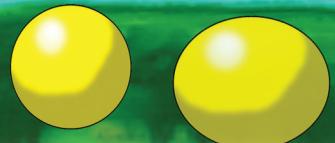
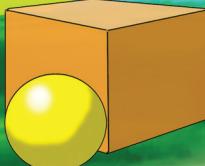
Uthini umbuzo?

Bhala amanani.

Bhala isibalo uze ubale.



10q

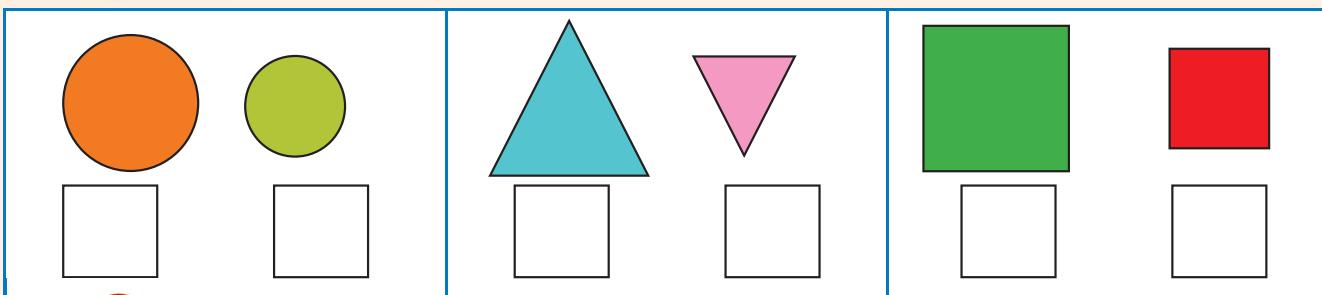


Ikota 4

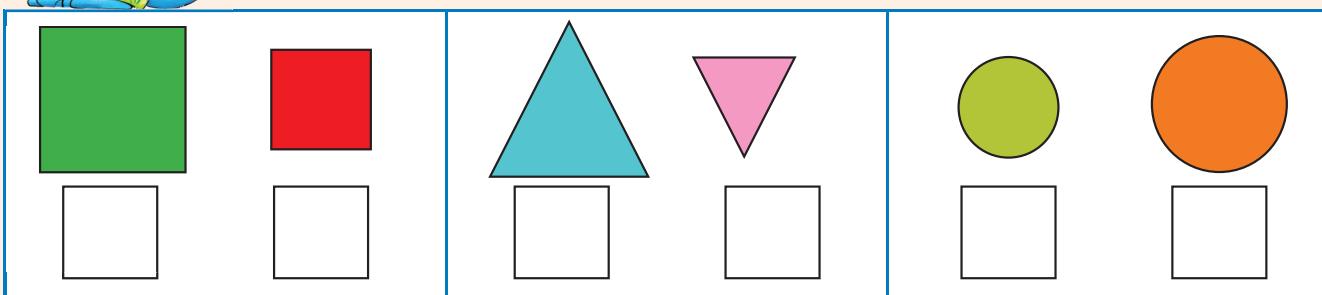


Iimilo ezinemilinganiselo emi-2 (2D)

Phawula eyona milo incinci kwibloko nganye.

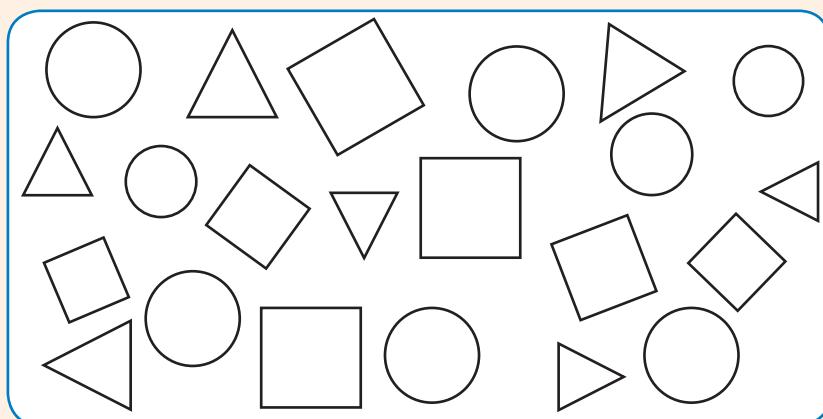


Phawula eyona milo inkulu kwibloko nganye.

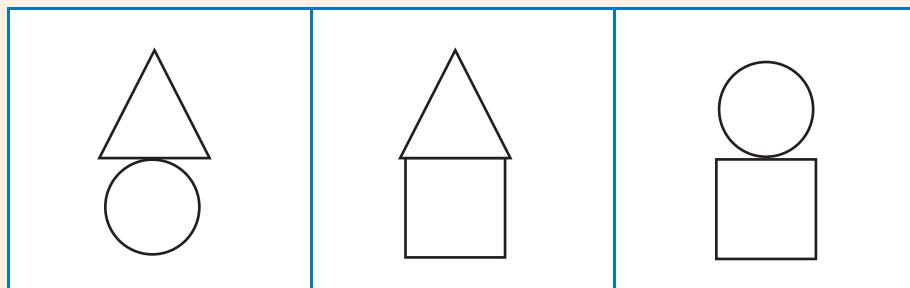


Faka umbala:

- ozuba kwizikwere
- obomvu koonxantathu
- oluahlaza kwizangqa



Yenza umfanekiso ngeemilo.
Umfanekiso ngamnye
siwuqale ngeemilo ezimbini.



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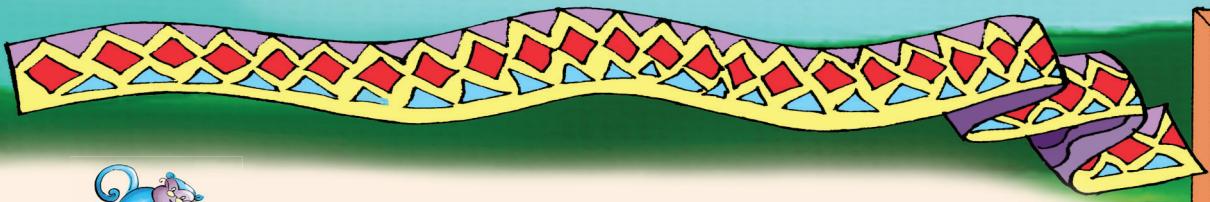
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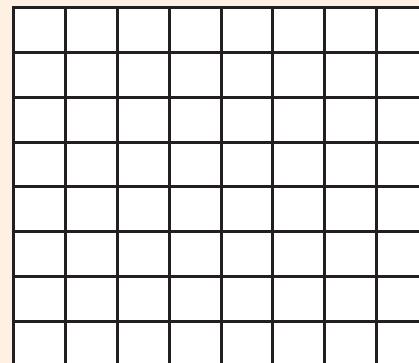
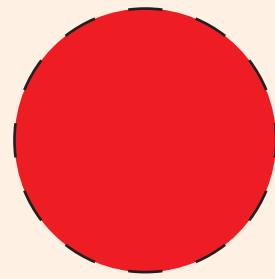
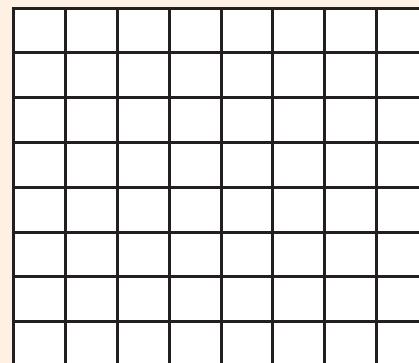
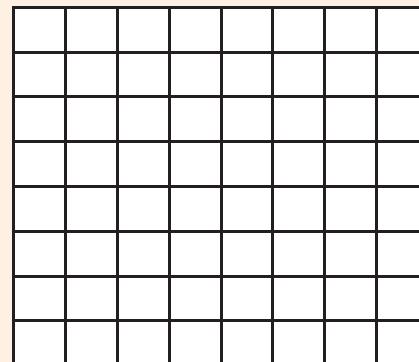
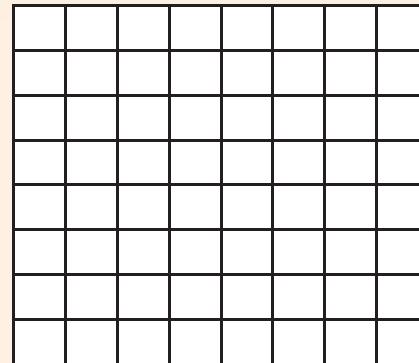
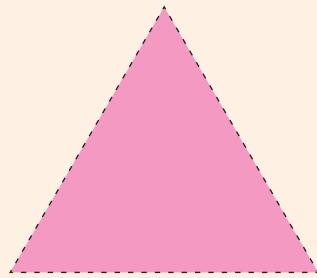
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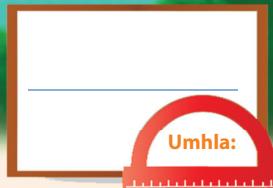
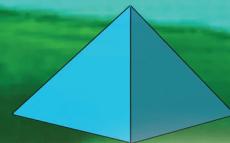
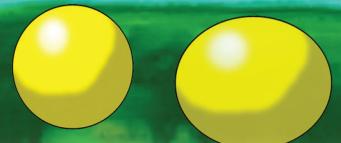
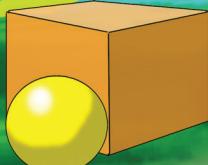
Zoba iimilo kwigridi.
Sebenzisa izikwere ezincinci zikuncede.



Teacher:
Sign:
Date:



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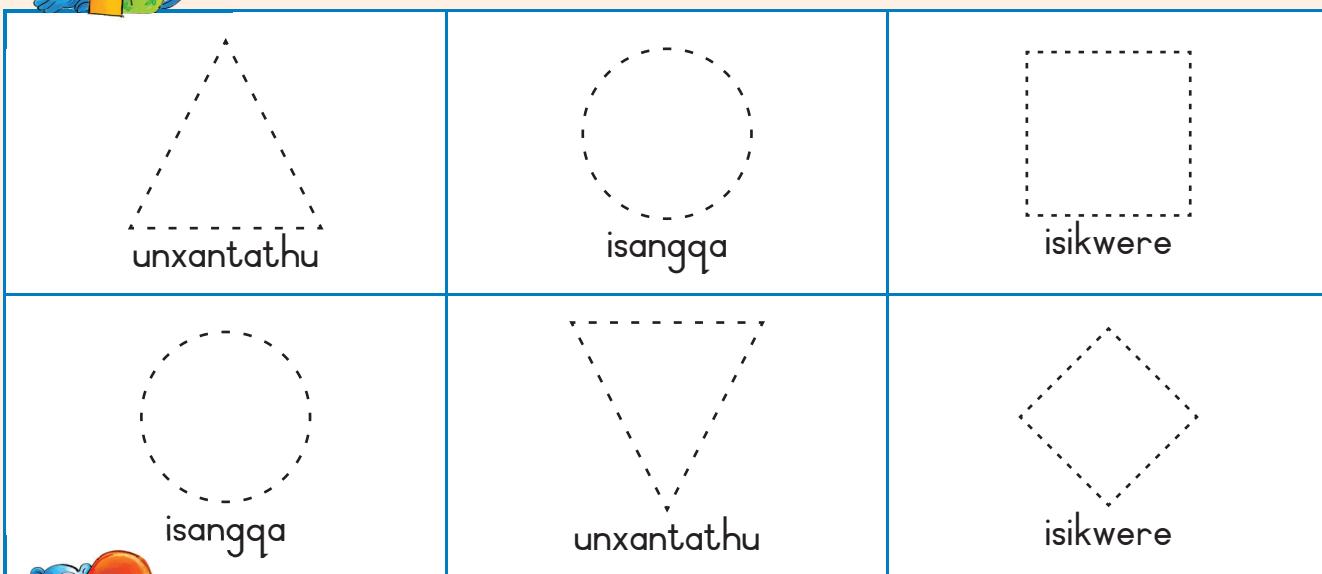


Ikota 4

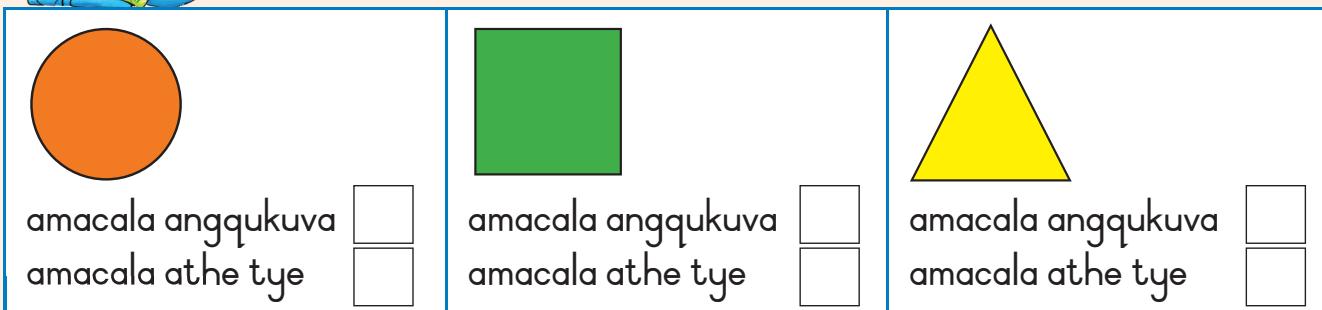


Iimilo ezi - 2D – amacala athe tye nangqukuva

Khuphela ezi milo zilandelayo.



Phawula ubonise ukuba imilo inamacala athe tye okanye angqukuva.



Zoba imilo enamacala:



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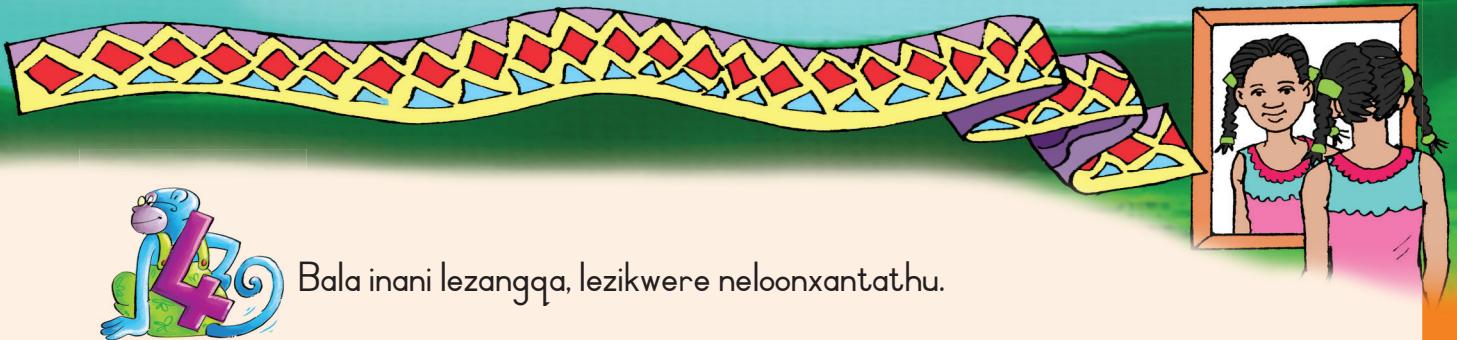
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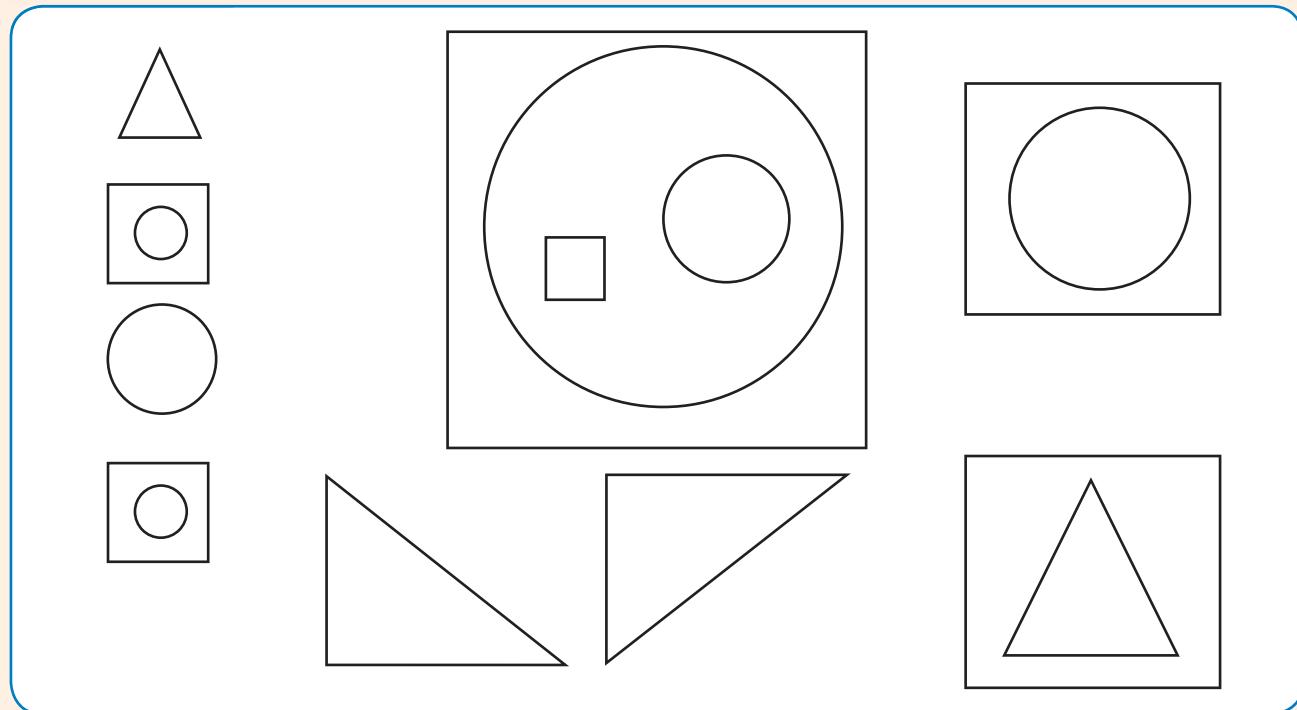
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Bala inani lezangqa, lezikwere neloonxantathu.



Izangqa

Izikwere

Oonxantathu

Funa kwimagazini umfanekiso onamacala:

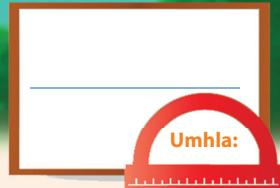
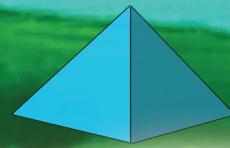
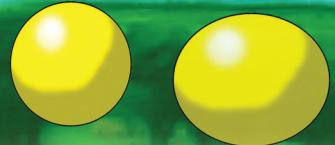
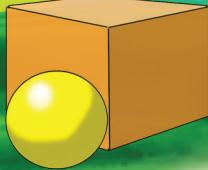
angqukuva

athe tye



Teacher:
Sign:
Date:



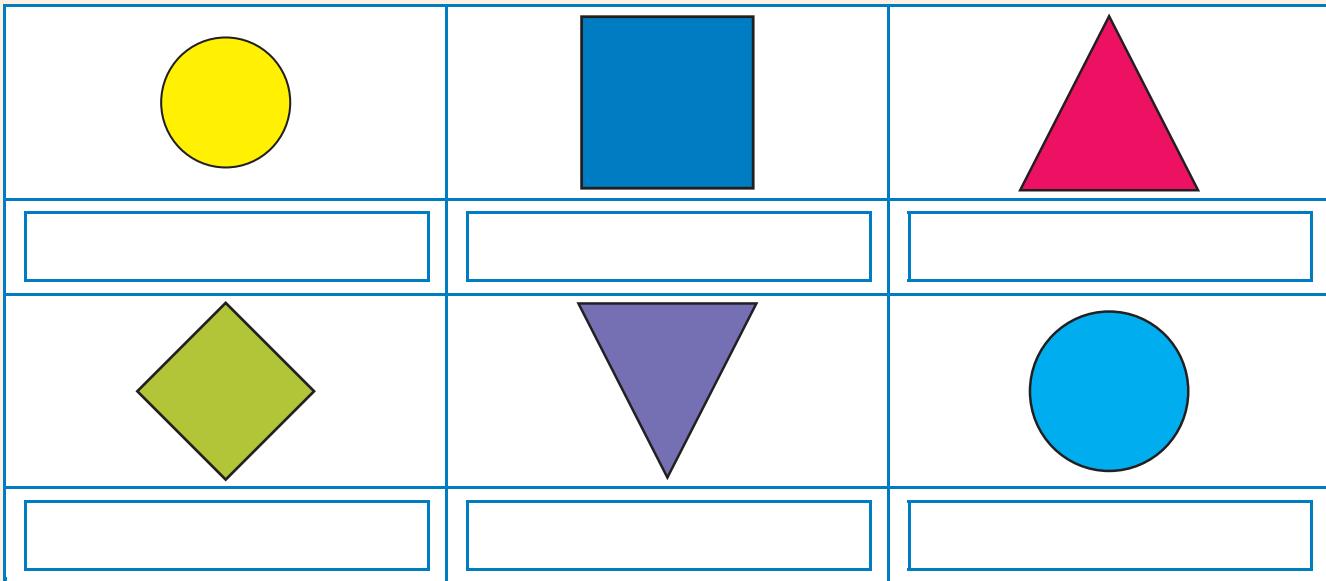


Okunye ngeemilo ezi - 2D

Ikota 4



Thiya ezi milo amagama:



Zoba owakho umfanekiso usebenzise izangqa, oonxantathu nezikwere.



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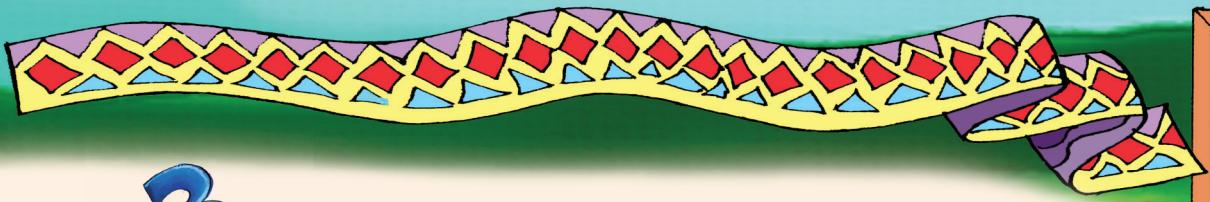
6

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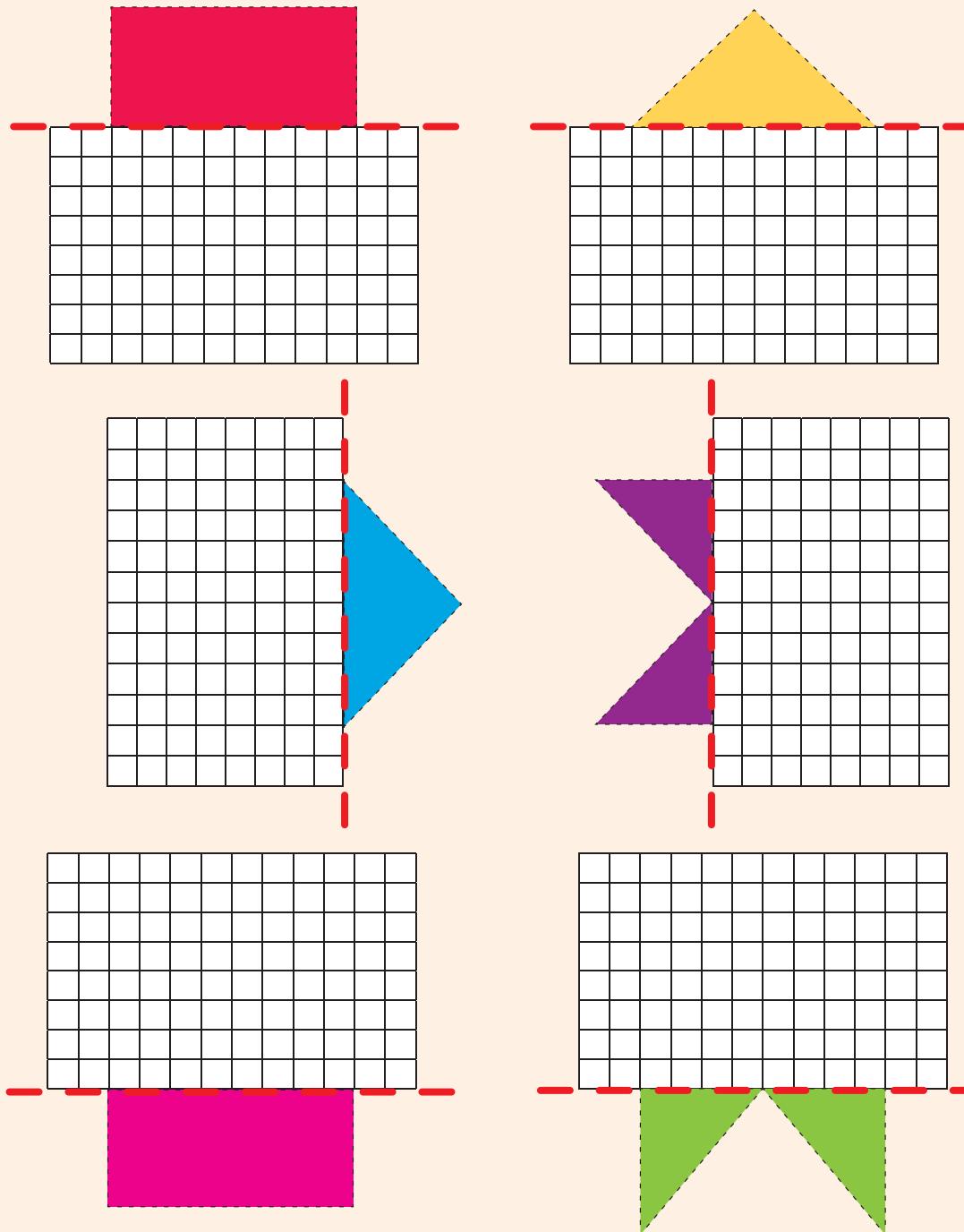
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Zoba icala elisisiqingatha semilo nganye.
Sebenzisa izikwere ezincinci zikuncede.

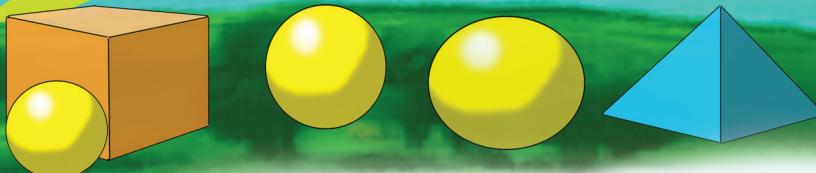


Zonke zinamacala athe tye angqukuva.

Teacher:
Sign:
Date:



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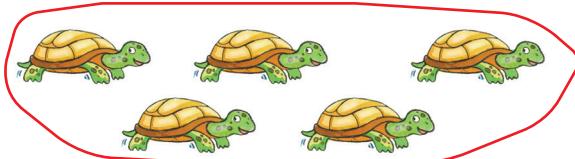
Amaqela ezihlanu ukuya kutsho kumashumi amabini

Ikota 4

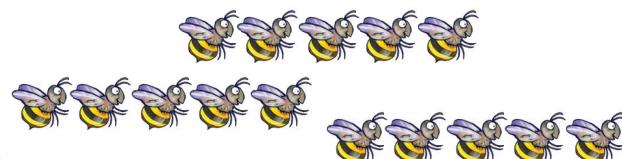


Yenza izangqa ukuze wenze amaqela ezihlanu.
Mangaphi amaqela ezihlanu onawo?

iqela lesi - 5 eli -



amaqela ezi - 5 ama -



amaqela ezi - 5 ama -



amaqela ezi - 5 ama -



Bala inani leminwe. Bhala impendulo yakho.



$$5 + 5 + 5 =$$



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



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



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



96

0

1

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 ashijiwego.

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

II I2 I3 I4 I5 I6 I7 I8 I9 20

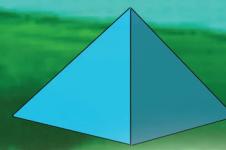
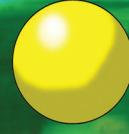
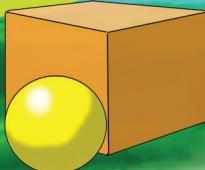


Teacher:

Sign:

Date:

II3

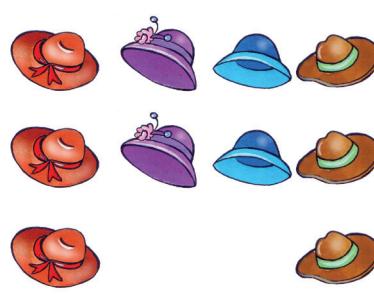
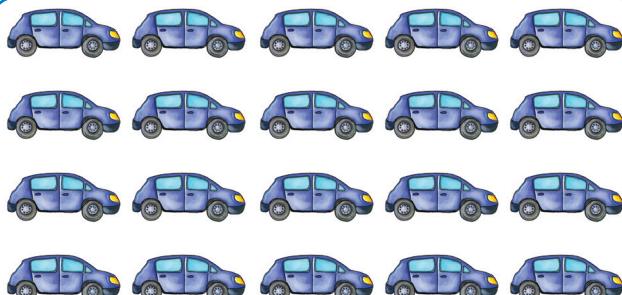
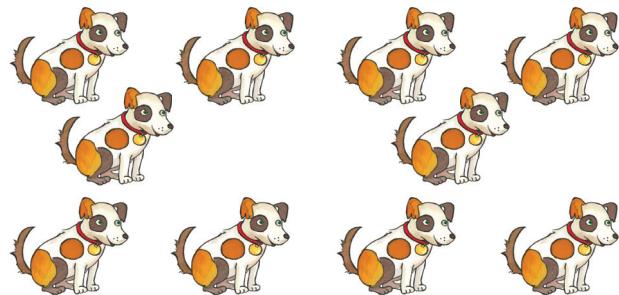


Ikota 4

Izihlanu – ukudibana okuphindiweyo ukuya kutsho kuma -20



Yenza amaqela ezihlanu uze ubhale isivakalisi - manani.



Zoba amaqela eemilo ubonise isivakalisi - manani.

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

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



98

0

1

2

3

4

5

6

7

8

9

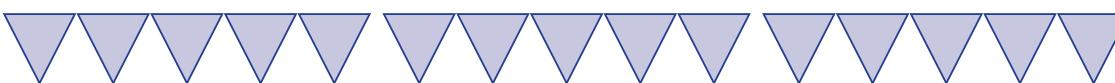
10

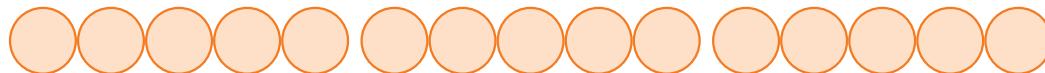


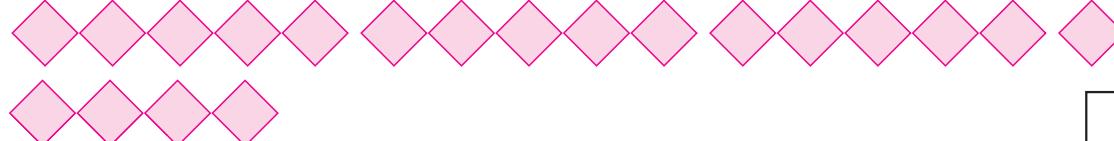
Bhala isivakalisi - manani kumfanekiso ngamnye:



$$5 + 5 =$$









Uwabala kangaphi amanani amahlanu? _____

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



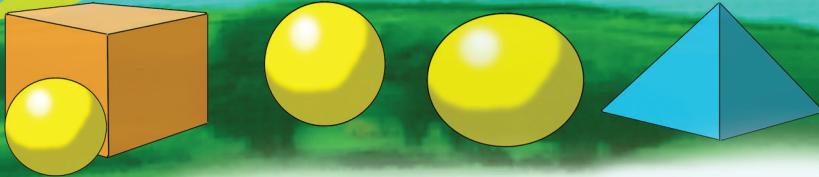
Kukho izandla ezithathu efesitileni. Mingaphi iminwe esefesitileni?

Zoba umfanekiso uze ubhale isivakalisi - manani.



11 12 13 14 15 16 17 18 19 20

14

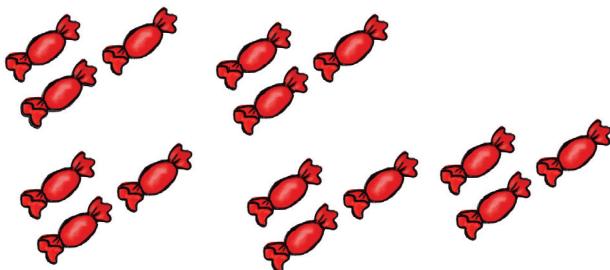


Ikota 4

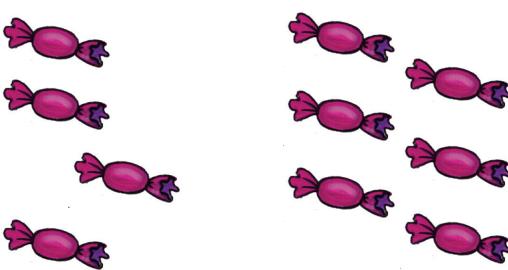
Ukwabelana ukuya kutsho kuma - 20



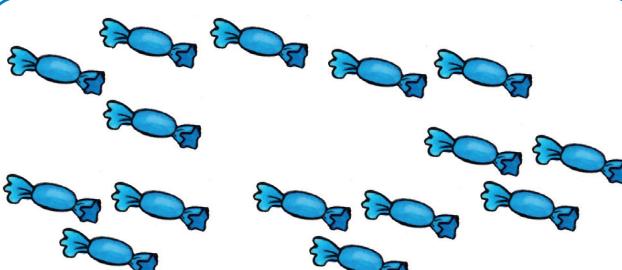
Yabela abahlobo abahlanu iilekese.
Uza kufumana iilekese ezingaphi emnye?



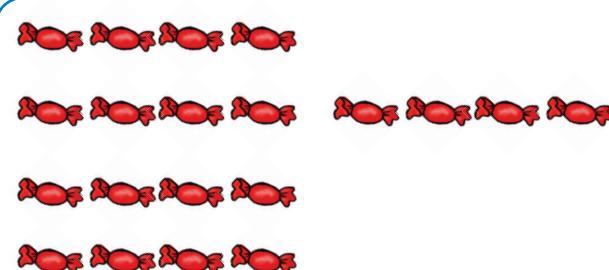
Umhlobo ngamnye uza kufumana
iilekese ezi



Umhlobo ngamnye uza kufumana
iilekese ezi



Umhlobo ngamnye uza kufumana
iilekese ezi



Umhlobo ngamnye uza kufumana
iilekese ezi

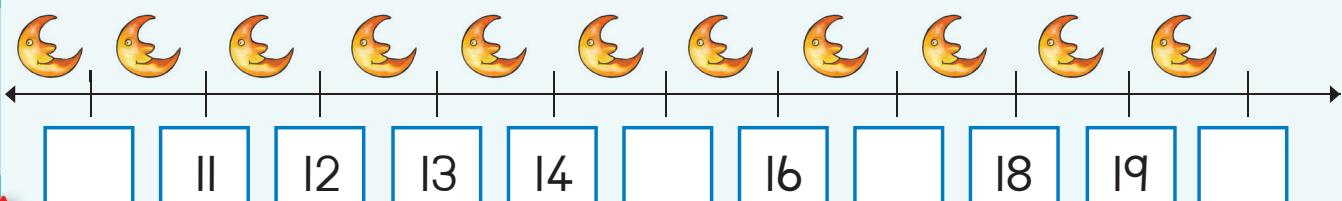


Faka umbala kwizophindwa zesi hlanu.

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



Bhala amanani angekhoyo.



100

0

1

2

3

4

5

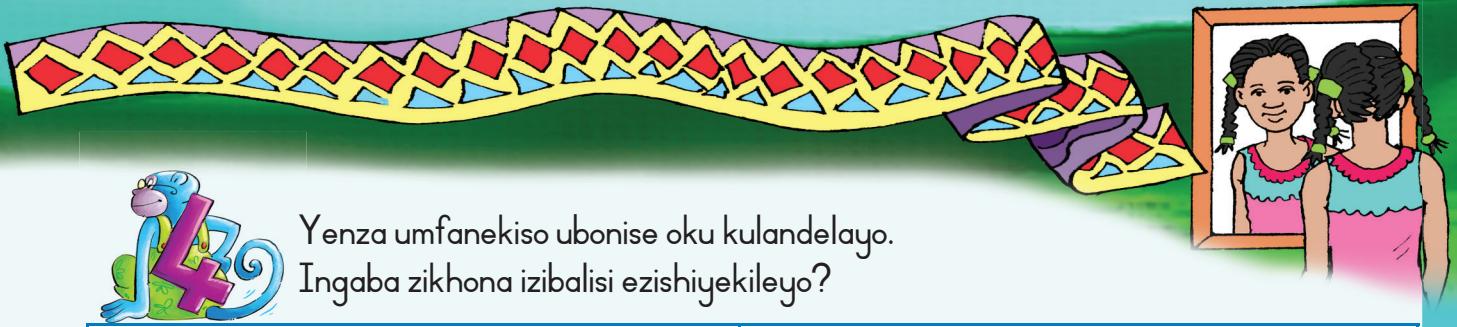
6

7

8

9

10



Yenza umfanekiso ubonise oku kulandelayo.
Ingaba zikhona izibalisi ezishiyekileyo?

Yabela abantwana abahlanu izibalisi ezili - 10.

Kukho izibalisi ezi ezishiyekileyo.

Yabela abantwana abahlanu izibalisi ezili - II.

Kukho isibalisi esi esishiyekileyo.

Yabela abantwana abahlanu izibalisi ezi - 6.

Kukho isibalisi esi esishiyekileyo.

Yabela abantwana abahlanu izibalisi ezili - 16.

Kukho isibalisi esi esishiyekileyo.



Bhala isivakalisi - manani kumfanekiso ngamnye:



$$5 + 5 =$$

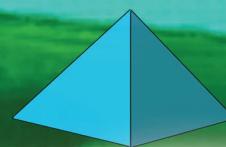
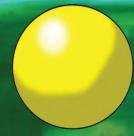
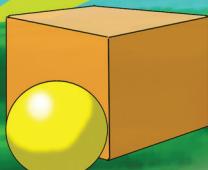








115



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:

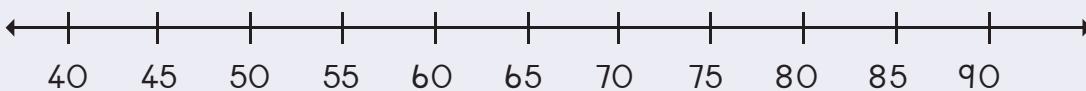
86, 88, 90



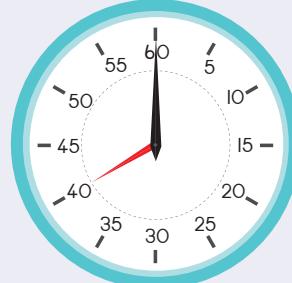
70, 75, 80



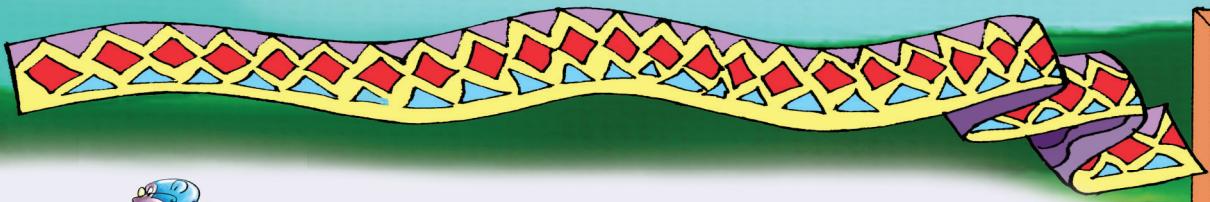
55, 60, 65, 70



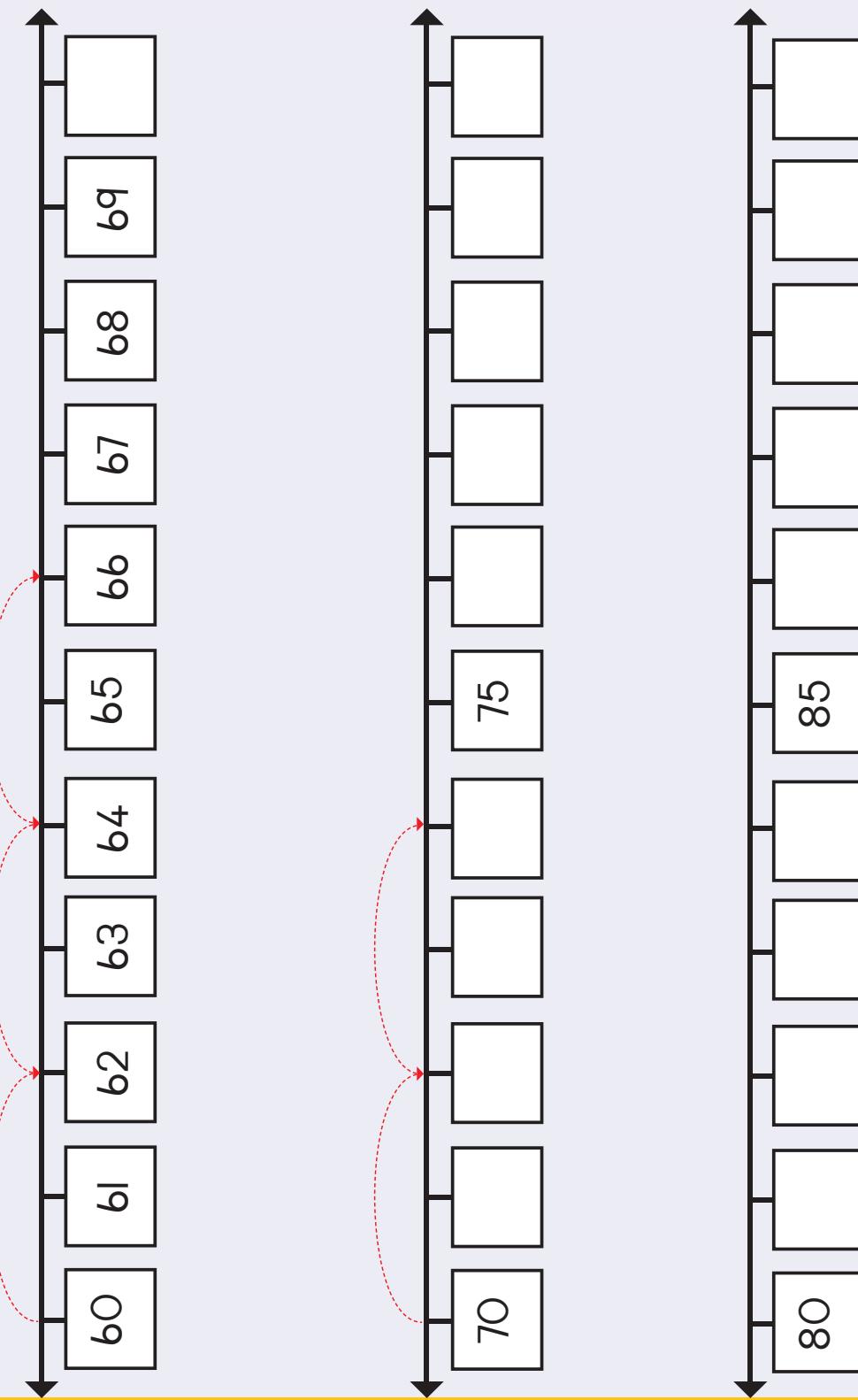
Sebenzisa iwotshi ubonise ukubala
imizuzu ngezihlanu.



102 0 1 2 3 4 5 6 7 8 9 10



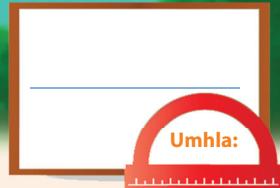
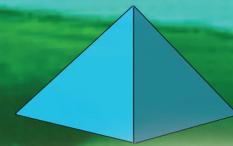
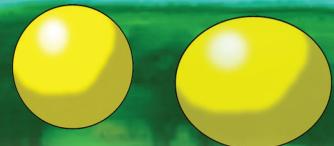
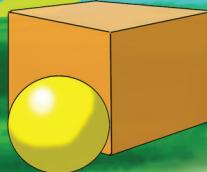
Faka amanani akuMsiko 2 kwizithuba ezinamanani ashiyiweyo kule migca - manani. Gqibezela izazinge.



A horizontal ruler scale with tick marks every millimeter. The numbers 11 through 20 are placed above the ruler at their corresponding positions. The numbers are colored as follows: 11 (blue), 12 (teal), 13 (light green), 14 (purple), 15 (pink), 16 (yellow-green), 17 (dark purple), 18 (red), 19 (blue), and 20 (green).



16



Indawo nembonakalo

Ikota 4



Tshatisa umphambili
nomva wesilwanyana
ngasinye.

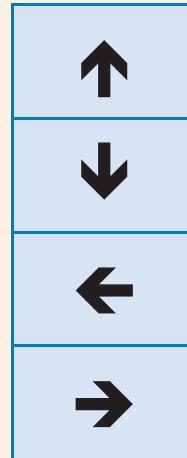
Umphambili



Umva



Biyela utolo
oluhambelana
notolo olunombala.



→	←	↑	↓
↑	↓	→	←
→	←	↑	↓
↑	←	↓	→



0

1

2

3

4

5

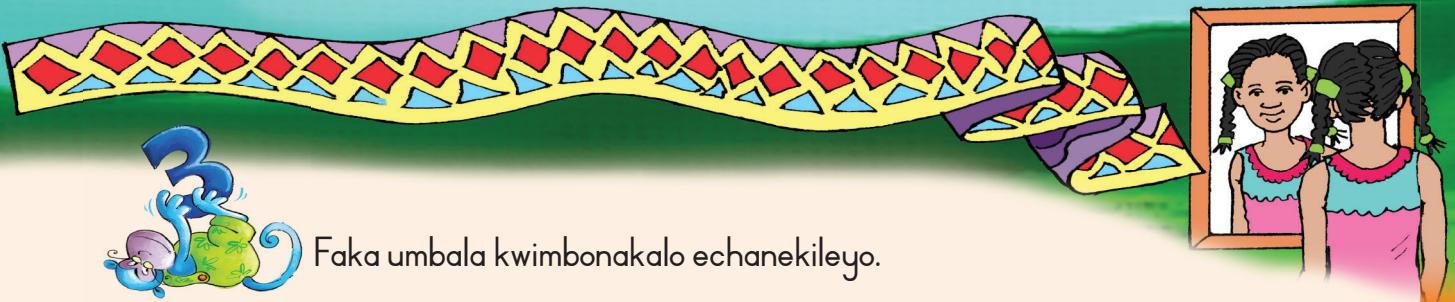
6

7

8

9

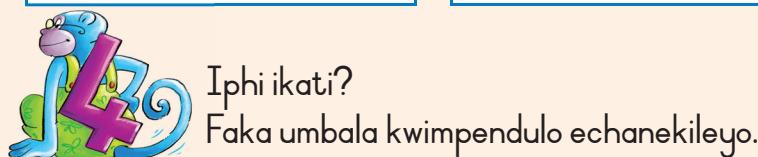
10



Imbonakalo yangaphezulu
Imbonakalo yasecaleni
Imbonakalo yangaphambili

Imbonakalo yangaphezulu
Imbonakalo yasecaleni
Imbonakalo yangaphambili

Imbonakalo yangasemva
Imbonakalo yasecaleni
Imbonakalo yangaphambili

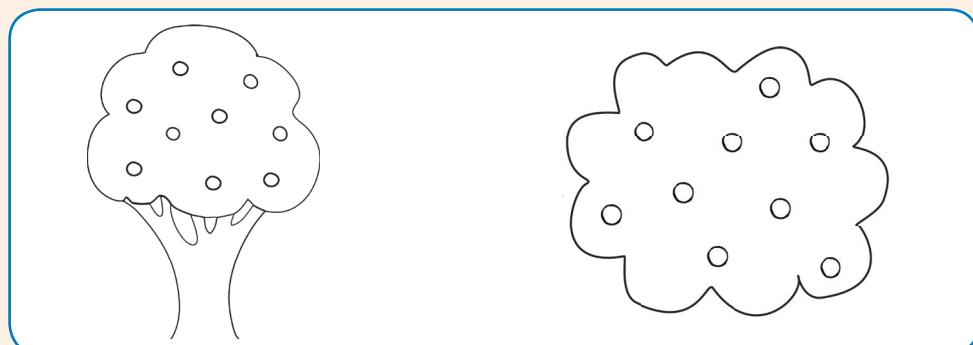


Ngasemva
Ngaphambili
Ecaleni

Ngasemva
Ngaphambili
Ecaleni

Ngasemva
Ngaphambili
Ecaleni

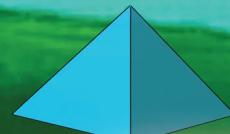
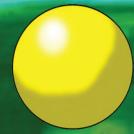
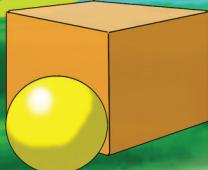
Jonga le mifanekiso
mibini. Faka umbala
kwimbonakalo
yangaphezulu.



Teacher: _____
Sign: _____
Date: _____



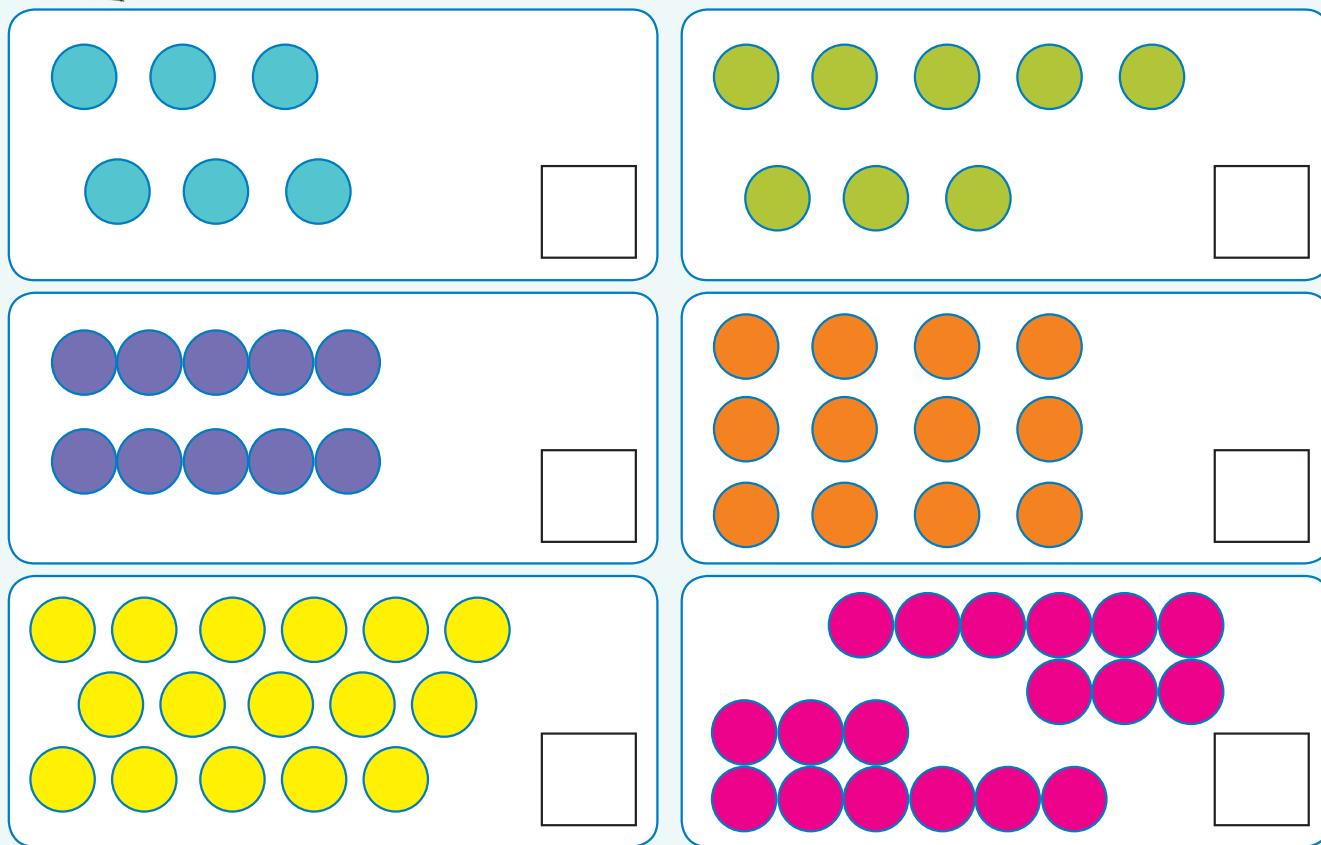
117



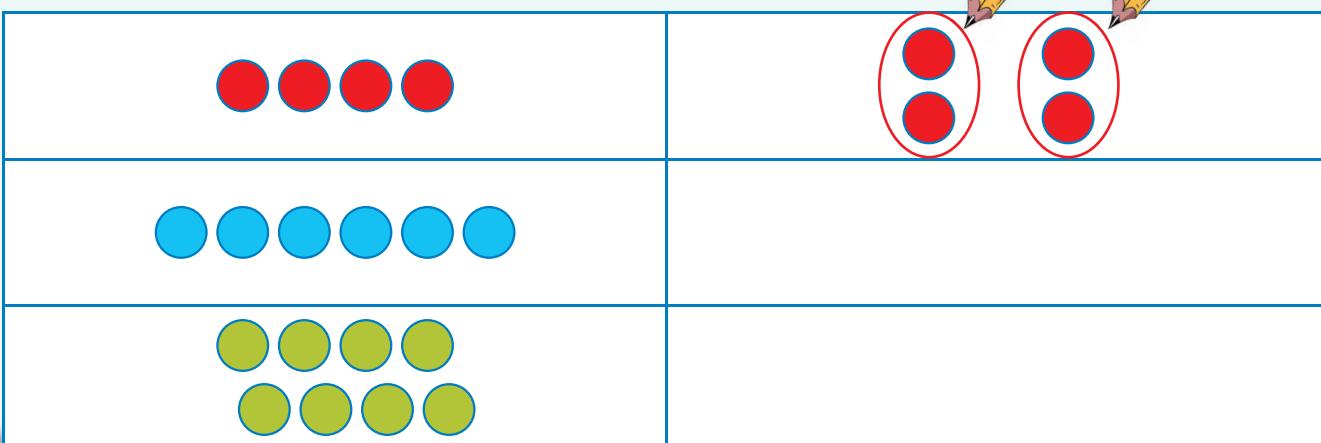
Ikota 4



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



Yenza amaqela ezibini. Wazobe la maqela.



106

0

1

2

3

4

5

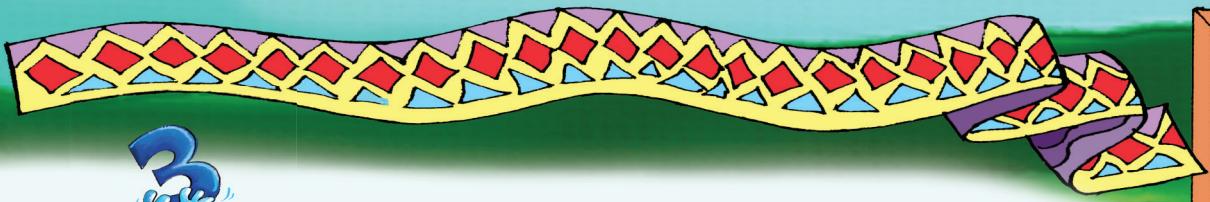
6

7

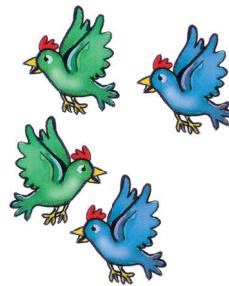
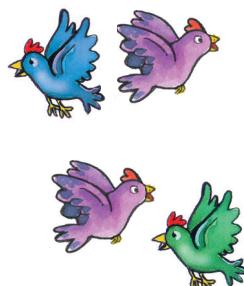
8

9

10



Phendula imibuzo.



Zingaphi iintaka ezikhoyo?

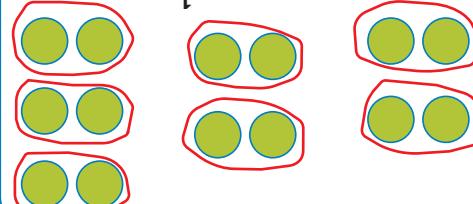
Mangaphi amaqela ezibini onokuwenza?

Bhala izivakalisi - manani.

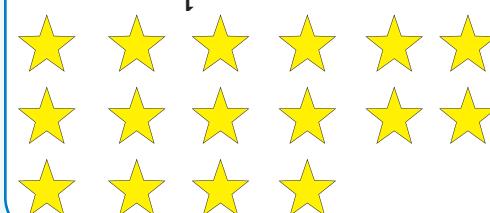


Biyela ngesangqa ukuze wenze oku.

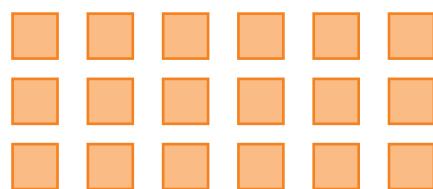
Amaqela ezi - 2 asi - 7



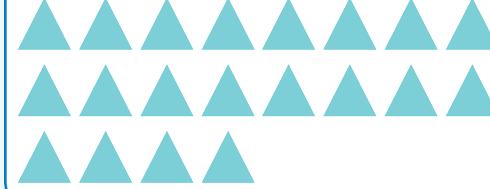
Amaqela ezi - 2 asi - 8



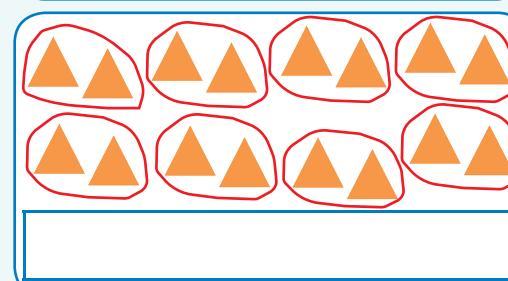
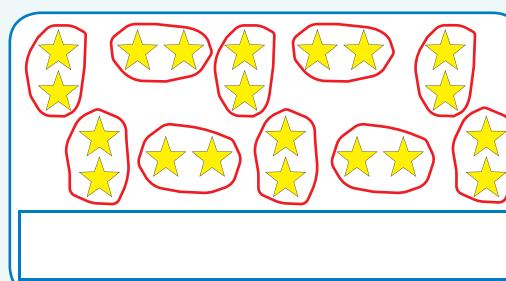
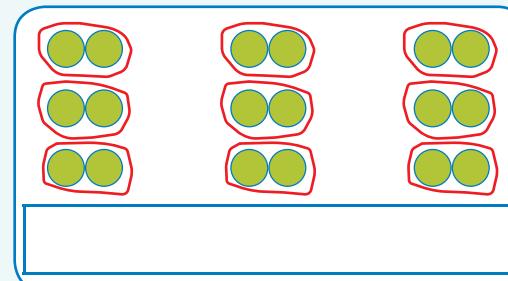
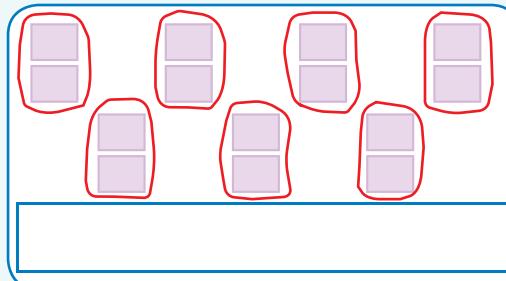
Amaqela ezi - 2 ali - 9



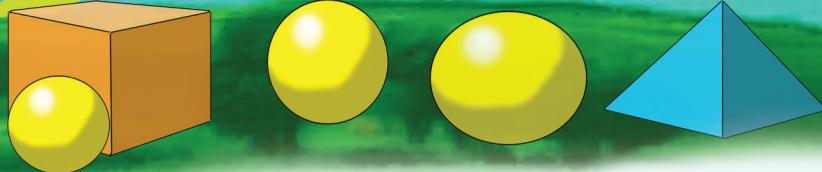
Amaqela ezi - 2 ali - 10



Bhala isivakalisi - manani kumfanekiso ngamnye.



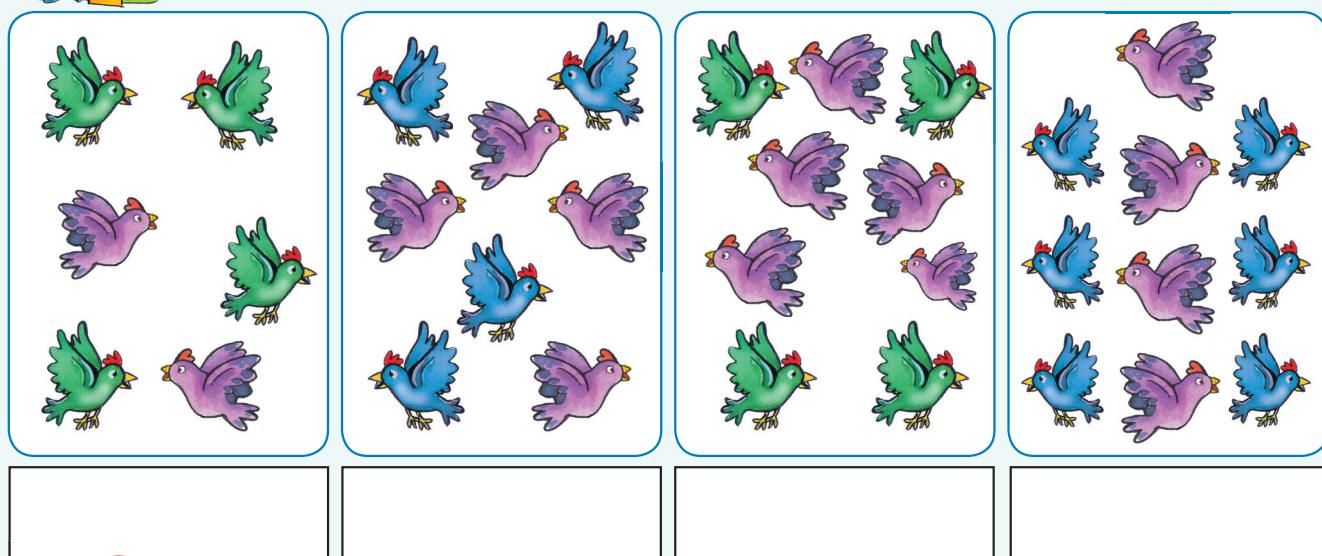
Teacher: _____
Sign: _____
Date: _____



Izibini – ukudibanisa okuphindiweyo ukuya kuma -20



Mangaphi amanqina akhoyo? Bhala isivakalisi - manani kwibloko nganye.



Zoba iimilo ezimele oku:

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



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

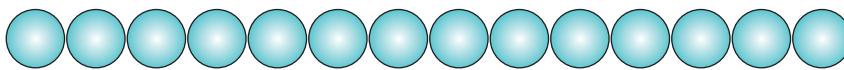
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{ }$$

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

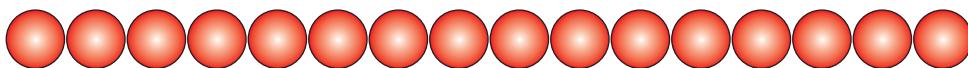


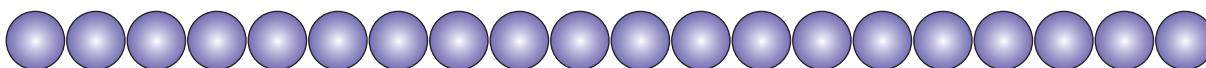


Bhala isivakalisi - manani kumfanekiso ngamnye:



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









Faka umbala
kwiziphindwa zesibini.

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



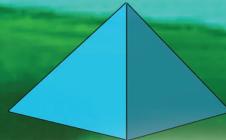
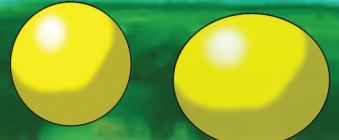
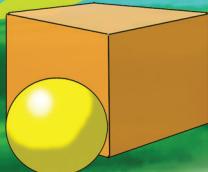
Ndineepakethe ezi - 6 ezineelekese ezimbini inye. Zingaphi iilekese endinazo?
Zoba umfanekiso uze ubhale isivakalisi - manani.

Ndineelekese ezi .



II 12 13 14 15 16 17 18 19 20

19



Ikota 4



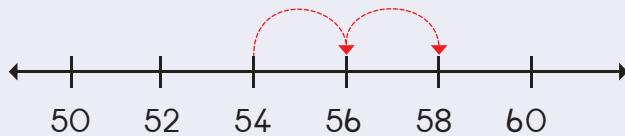
Gqibezela ipatheni ufakele imibala kula manani.

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

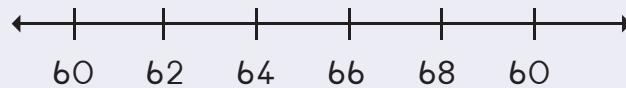


Yenza izazinge ubonise oku:

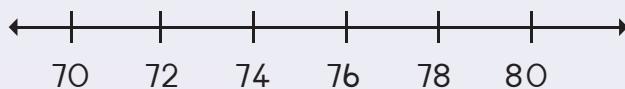
54, 56, 58



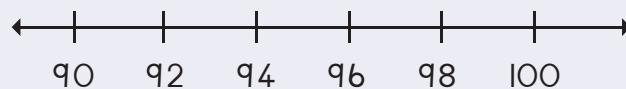
64, 66, 68



74, 76, 78



94, 96, 98

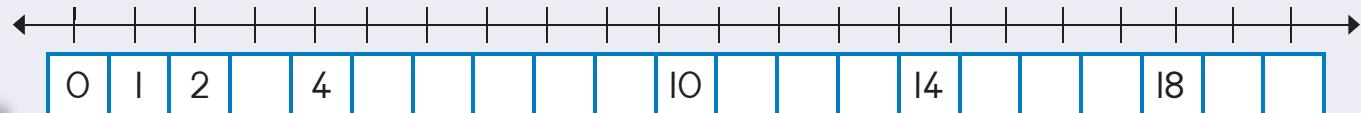


Fakela amanani ashijiyewo. Fakela umbala kule patheni: 2, 4...

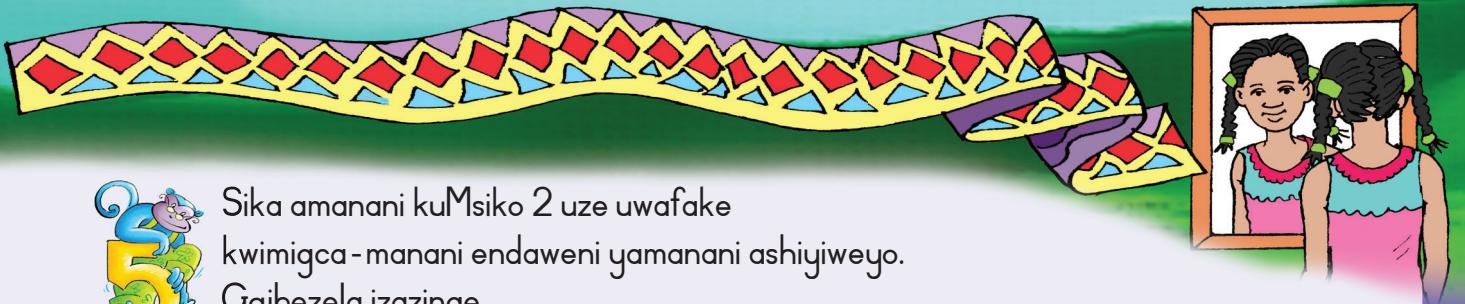
I			3				7			10
II							17			20



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.



The diagram illustrates four vertical stacks of rectangular boxes, each containing a sequence of numbers. The boxes are arranged in a grid-like structure with horizontal and vertical lines connecting them. Red dashed arrows indicate a specific mapping or flow between the boxes in adjacent stacks.

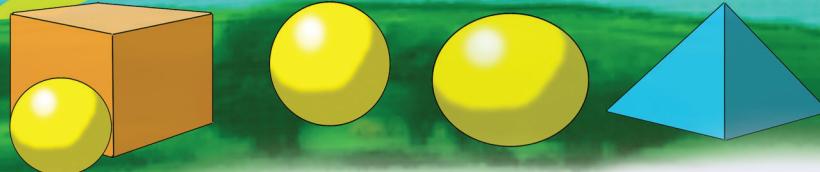
- Stack 1:** Contains boxes labeled 60, 61, 63, 65, 67, 69 from bottom to top.
- Stack 2:** Contains boxes labeled 70, 71, 73, 75, 77, 79 from bottom to top.
- Stack 3:** Contains boxes labeled 80, 81, 83, 85, 87, 89 from bottom to top.
- Stack 4:** Contains boxes labeled 90, 91, 93, 95, 97, 99 from bottom to top.

Red dashed arrows show connections between the bottom box of Stack 1 and the top box of Stack 2, between the bottom box of Stack 2 and the top box of Stack 3, and between the bottom box of Stack 3 and the top box of Stack 4.



A horizontal ruler scale with tick marks every millimeter. The numbers 11 through 20 are placed above the ruler, with their corresponding colors: 11 is blue, 12 is green, 13 is white, 14 is magenta, 15 is cyan, 16 is white, 17 is purple, 18 is red, 19 is blue, and 20 is green.

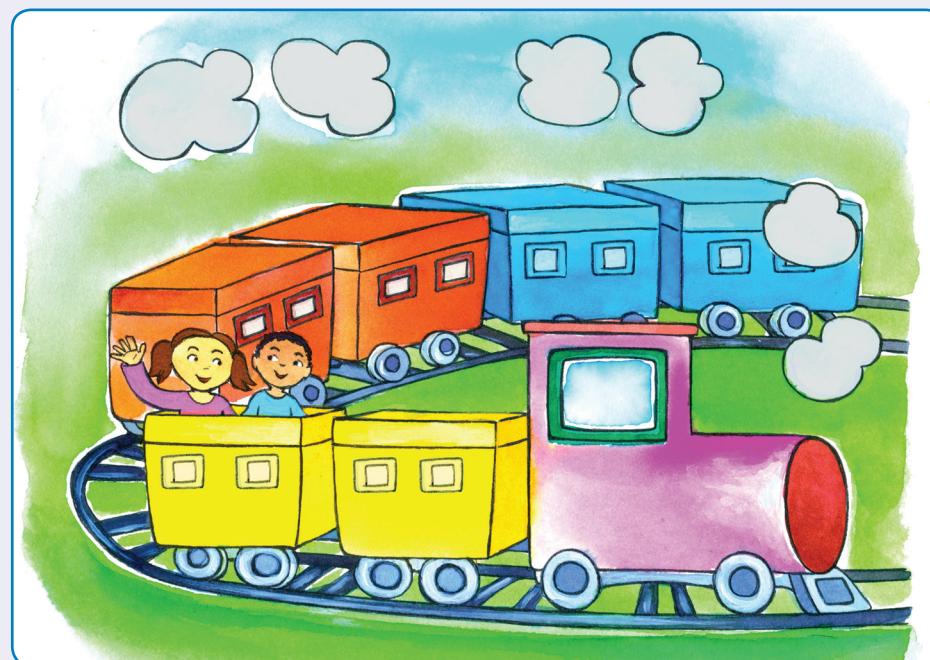
I20



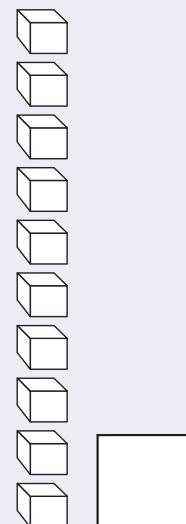
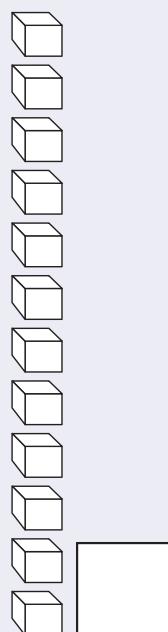
Ikota 4



Zikhona iipatheni zezibini ozibonayo?

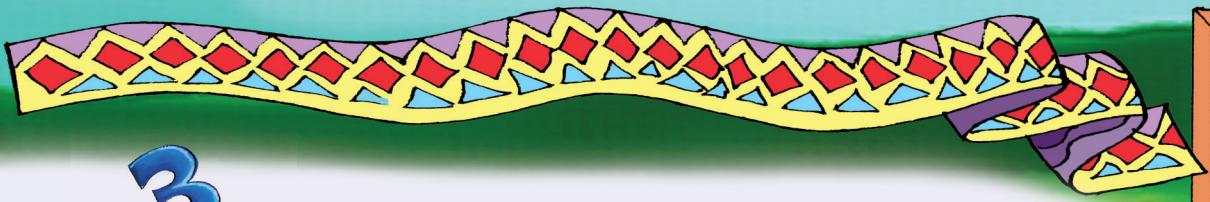


Fakela umbala kwibloko ubonise amaqela ezibini.
Bala ukuba mangaphi amaqela akhoyo.

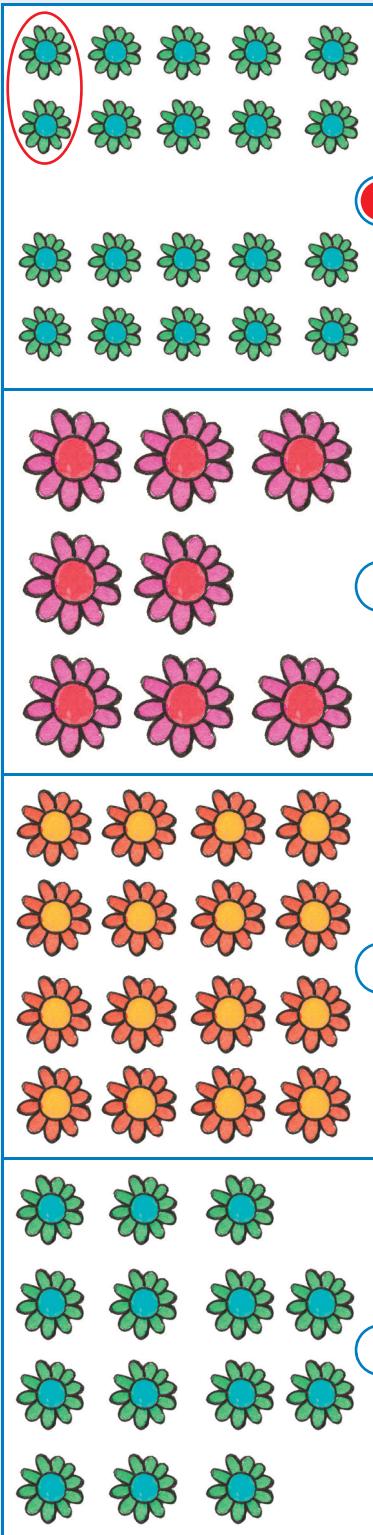
 4

I12

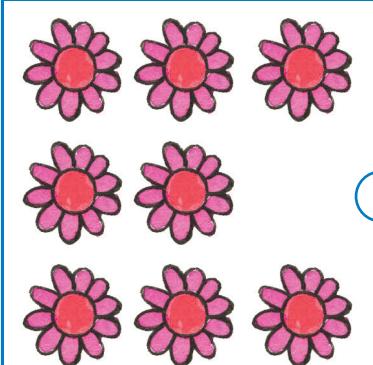
0 1 2 3 4 5 6 7 8 9 10



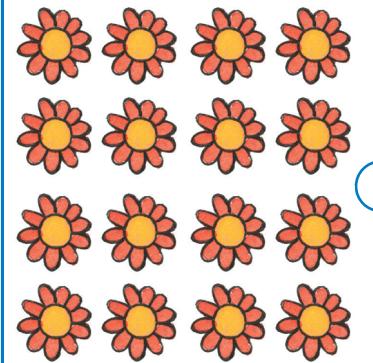
Krwela umgca utshatise amaqela ezibini
nezivakalisi - manani.



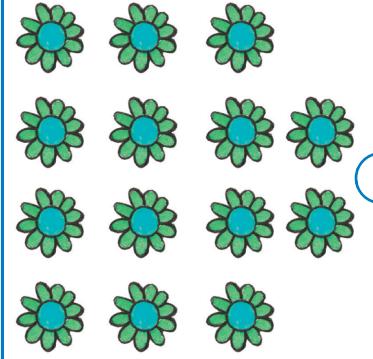
$$2 + 2 + 2 + 2 = 8$$



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



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



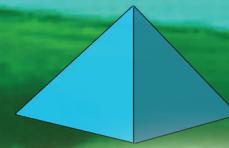
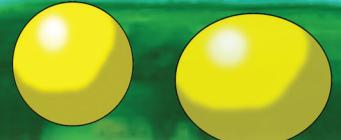
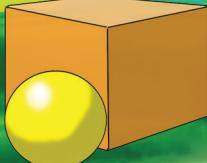
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$$



Teacher:
Sign:
Date:



I2I

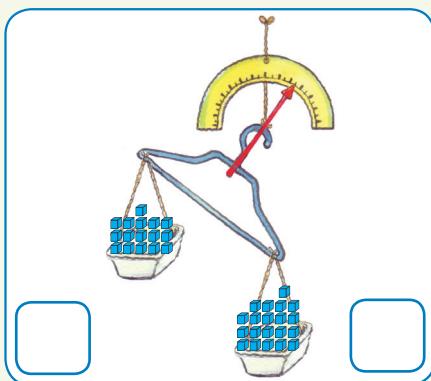
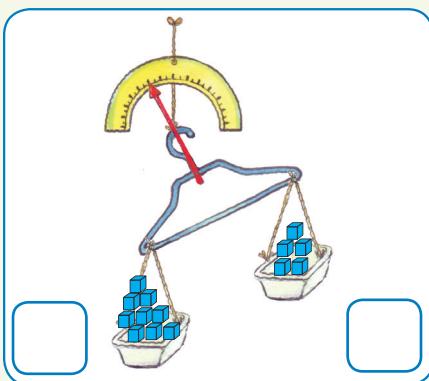
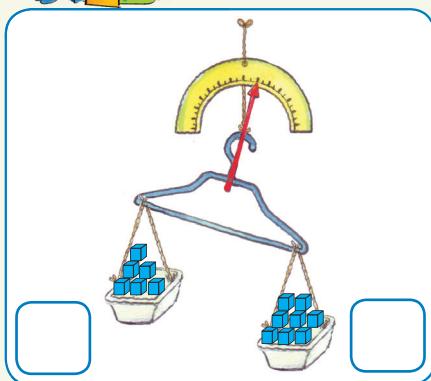


Ikota 4

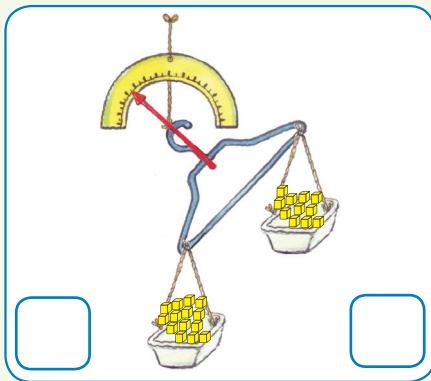
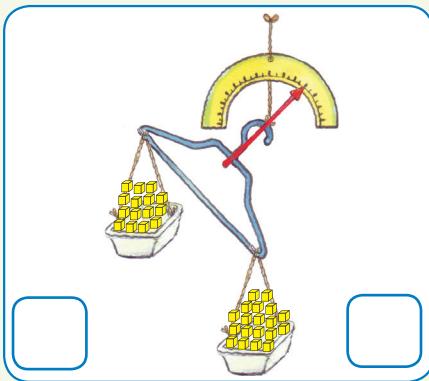
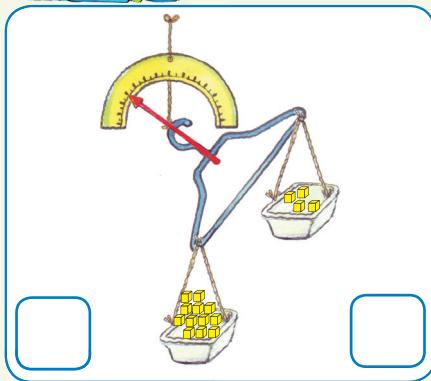
Ubunzima



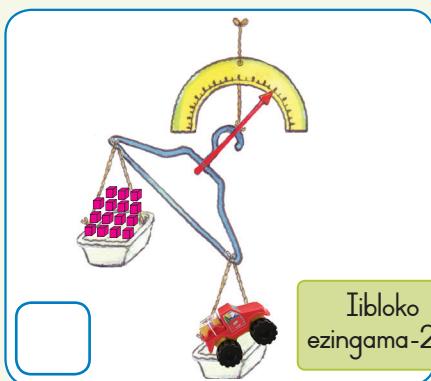
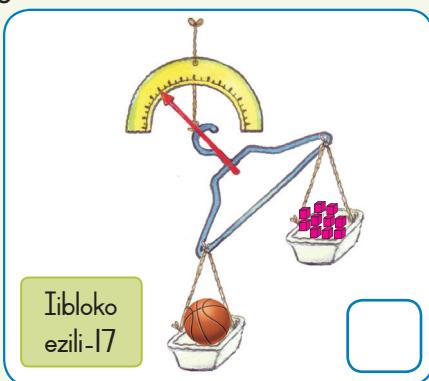
Bhala ukuba zingaphi iibloko ezikwisikhongozelo ngasinye.
Biyela isikhongozelo esinzima.



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.



114

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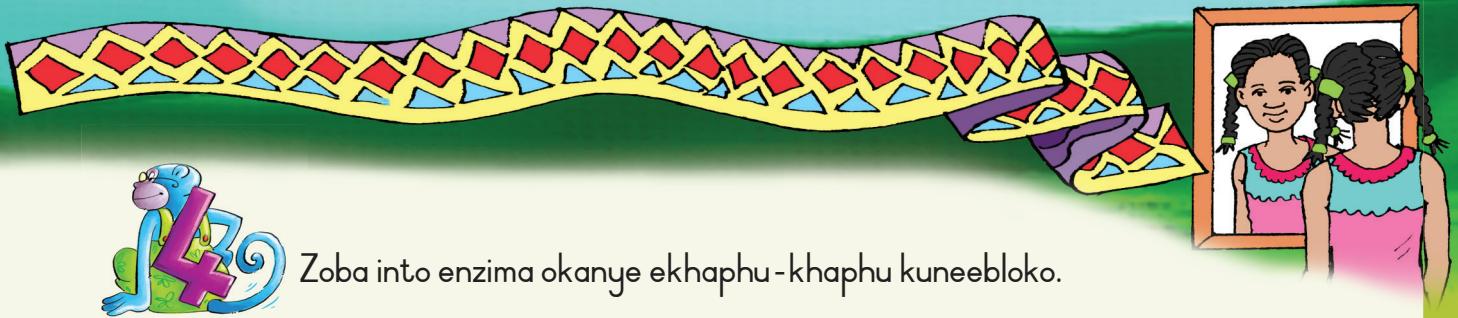
6

7

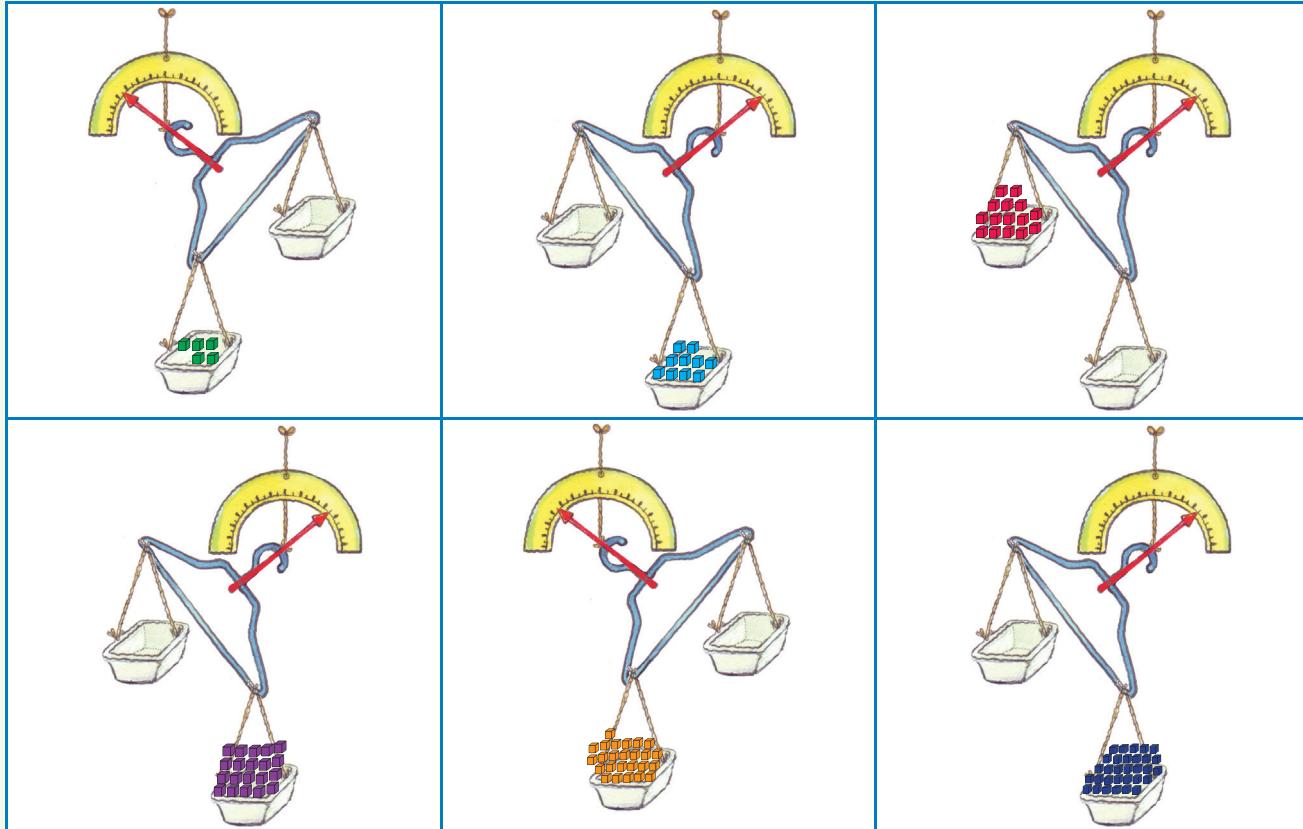
8

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Zoba into enzima okanye ekhaphu-khaphu kuneebloko.

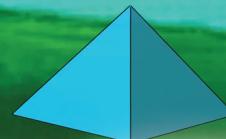
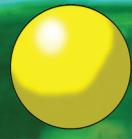
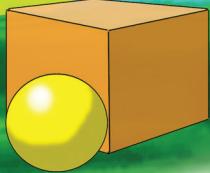


Sebenzisa naziphi na izinto ezintlanu ezisedesikeni yakho. Qala uqikelele ukuba inobunzima obungakanani uze wakuggiba uyilinganise esikalini ukhangele ukuba ingaba ingqikelelo yakho ichanekile na.

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



122



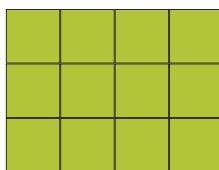
Ikota 4

Ukuphinda kabini

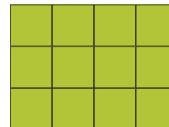
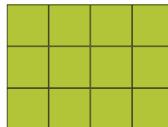


Phendula oku kulandelayo:

Zingaphi izikwere ezikhoyo?

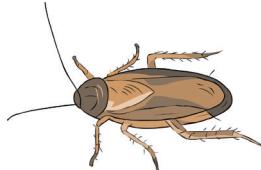


Zingaphi ezikhoyo ngoku?

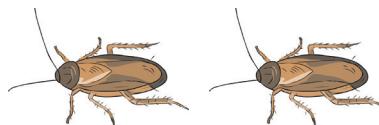


Sithi i-12 eliphindwe kabini lenza ama -24.

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

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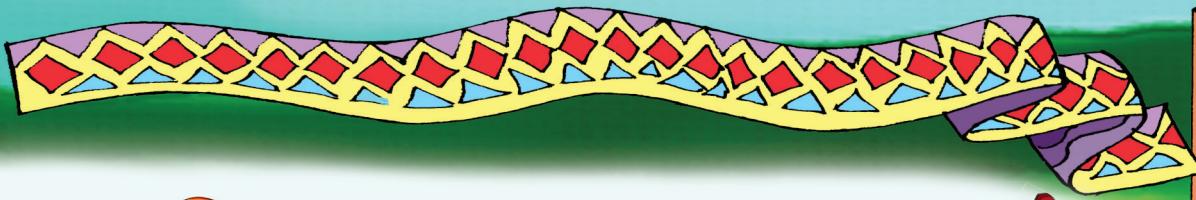
6

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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	

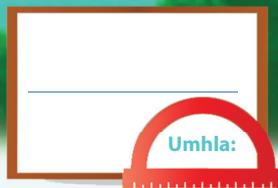
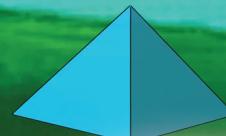
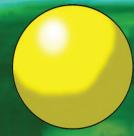
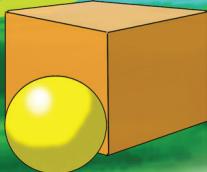


Gqibezela itheyibhile

$9 + 9 + 1 =$	<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"/>



123



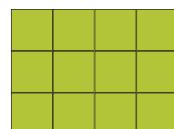
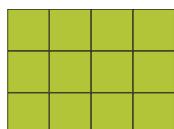
Ikota 4

Ukwahlula kubini

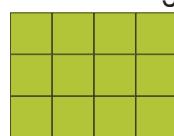


Phendula oku kulandelayo:

Zingaphi izikwere ezikhoyo?

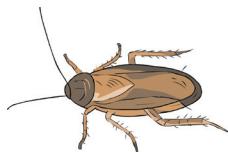
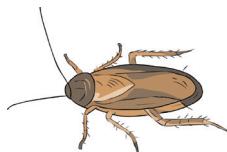


Zingaphi izikwere ezikhoyo ngoku?

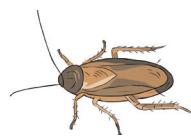


Sithi isiqingatha sama - 24 li - 12.

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

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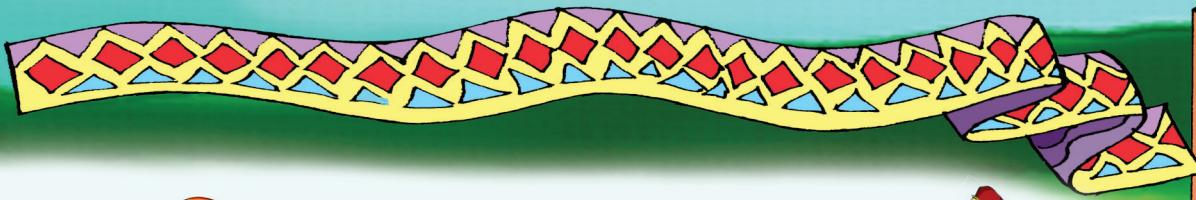
6

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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.

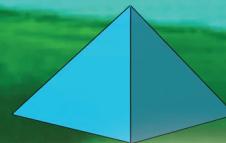
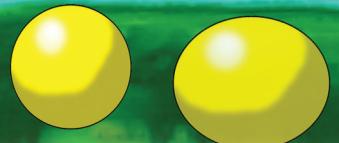
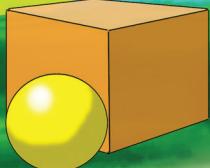
Isiqingatha se-10 sisi-	5
Isiqingatha se-12 sisi-	
Isiqingatha se-14 sisi-	
Isiqingatha se-16 sisi-	
Isiqingatha se-18 li-	



Teacher:
Sign:
Date:



I24

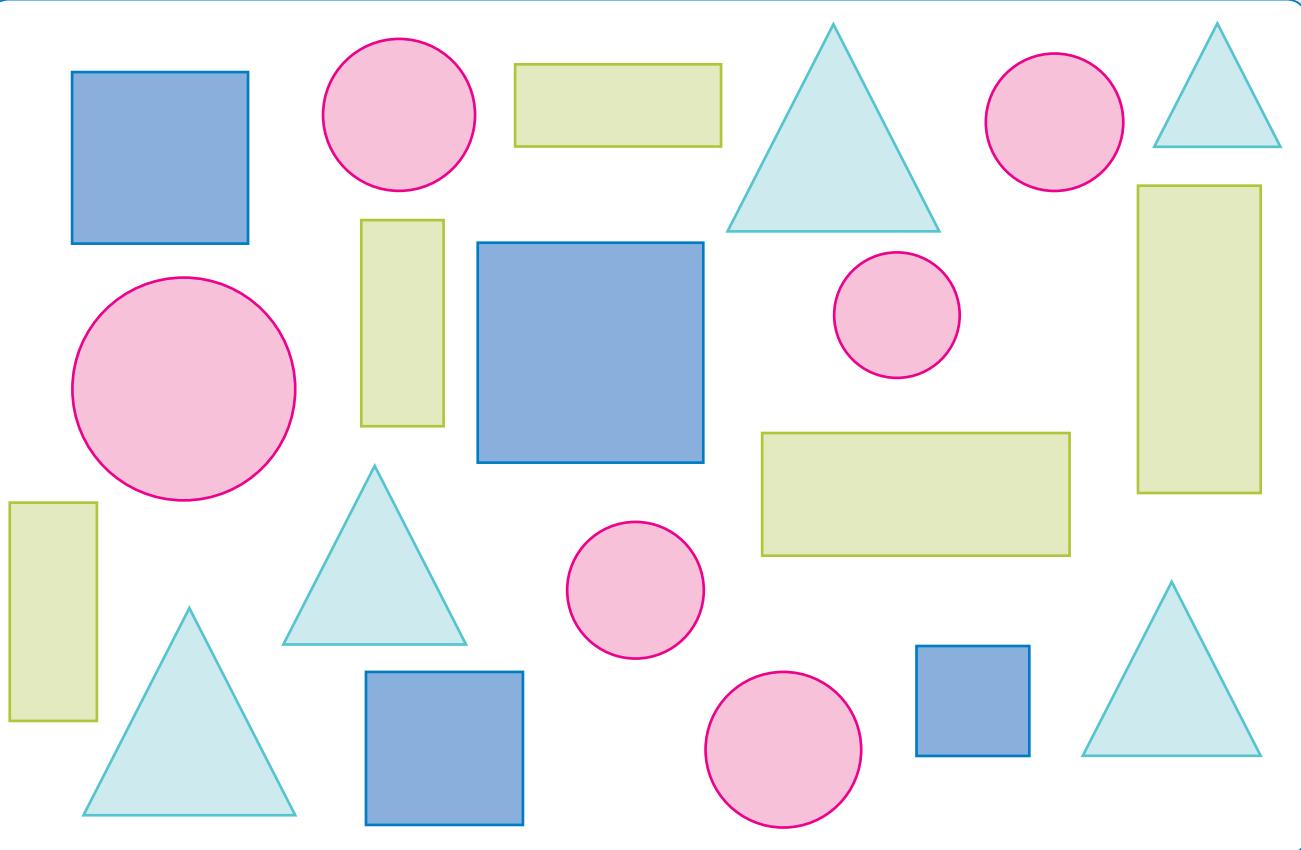


Ikota 4



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?



I20

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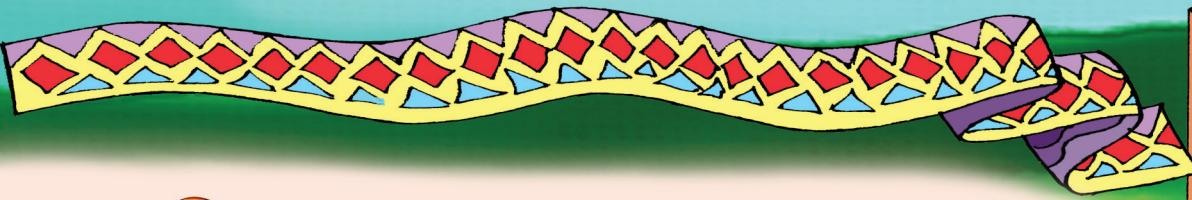
6

7

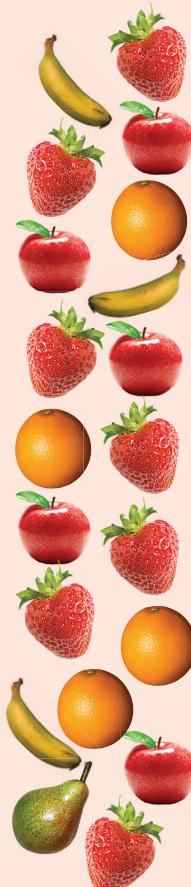
8

9

10



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



Iziqhamo esizithandayo?

Isikhokelo =

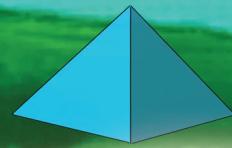
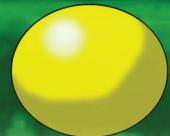
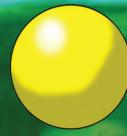
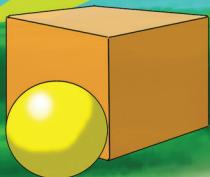
Amaqunube	Ama-apile	Amapere	Iibhanana	Ii-orenji

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?	



Teacher:
Sign:
Date:





Ezinye iinkcukacha

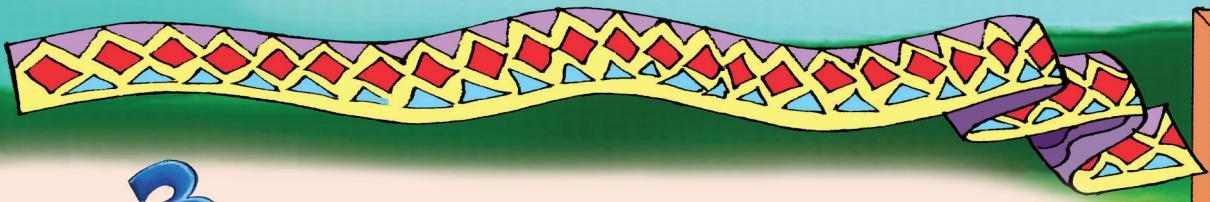


Abantwana abaseklasini banezi thoyi zokudlala zilandelayo.
Umntwana ngamnye unezingaphi kuhlobo ngalunye?



Gqibezela itheyibhile.

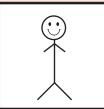
Ithoyi	Inani
Oonopopi	
Iitrakha	
Oobherana	
Iirobhathi	



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

Iithoyi esinazo

Isikhokelo =



Oonopopi	Iitrakha	Oobherana	Iirobhothi



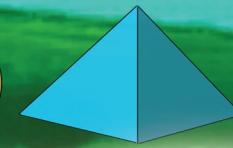
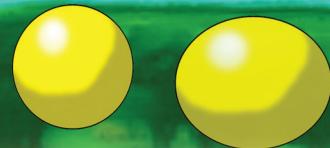
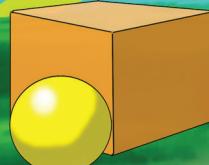
Phendula le mibuzo. Jonga kwigrafu yemifanekiso ikuncede.

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



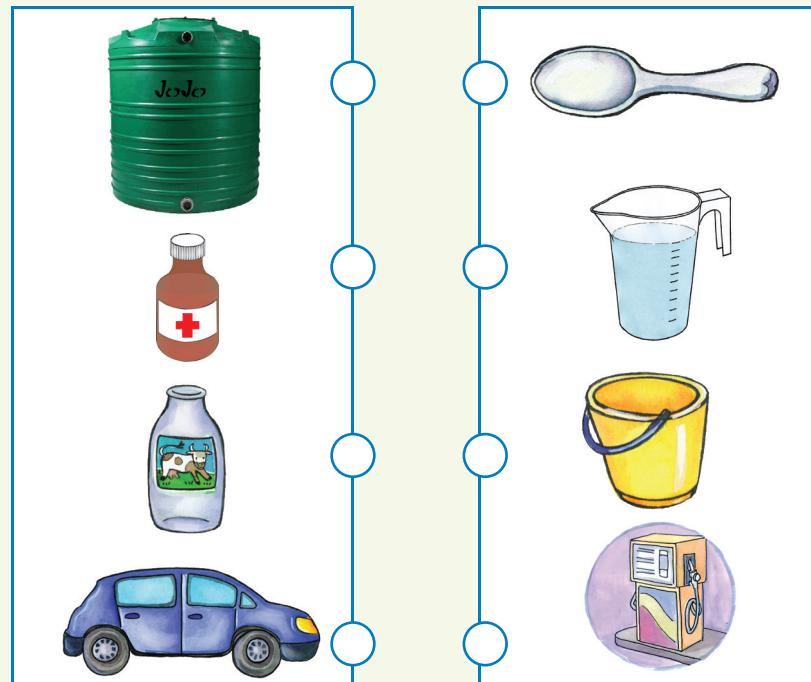
Teacher:
Sign:
Date:



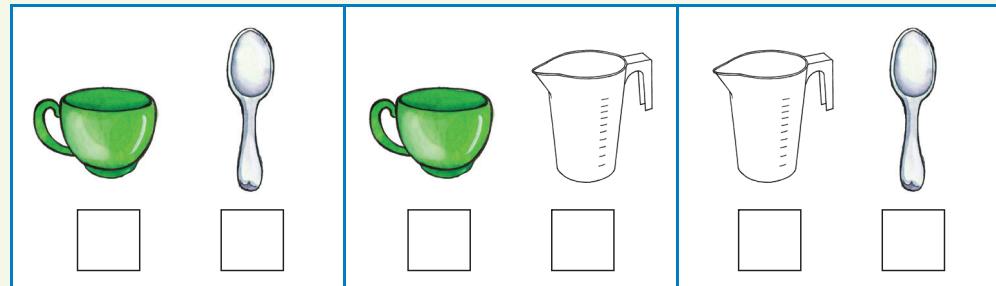


Silulinganisa njani ulwelo?
Krewla umgca utshatise into
kunye nesixhobo sokuyilinganisa.

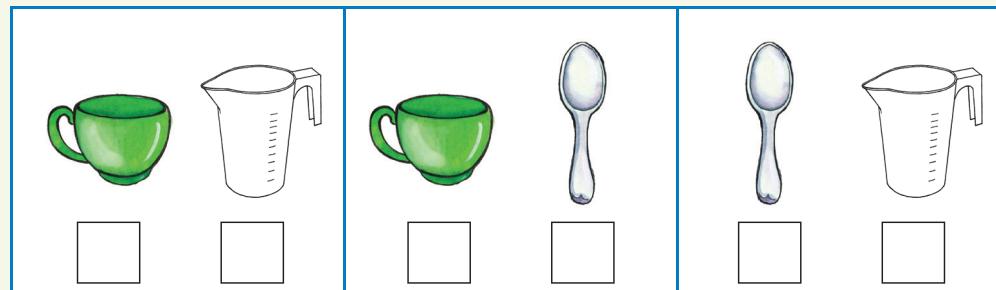
Umthamo



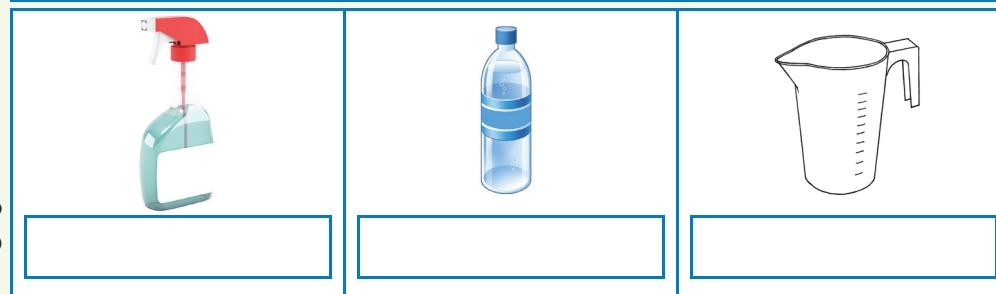
Phawula isikhongozelo
esiya kuthatha
umthamo omncinci.

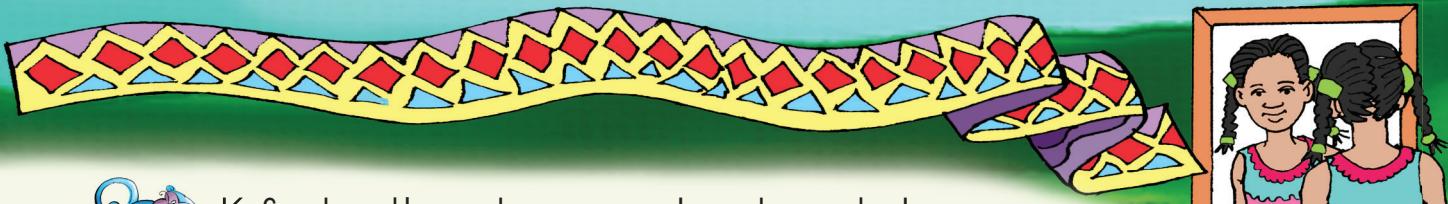


Phawula isikhongozelo
esiya kuthatha
umthamo omnini.



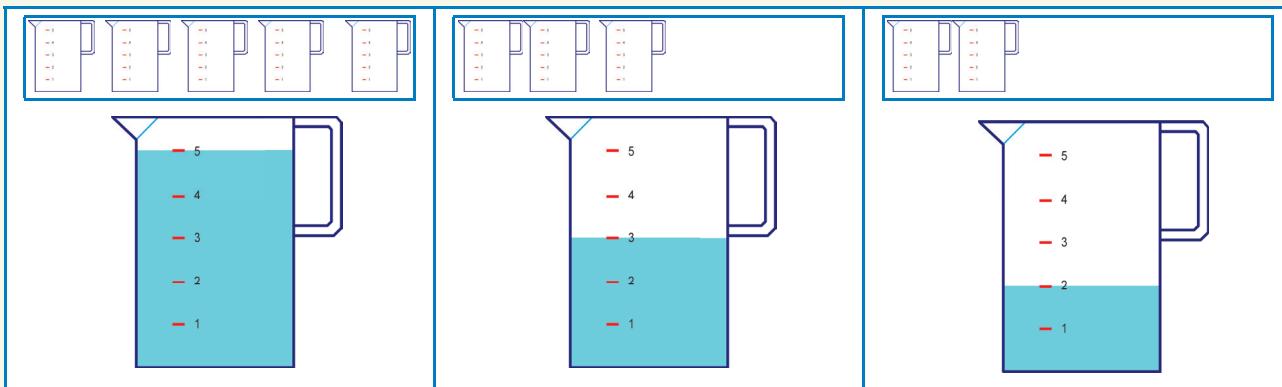
Ingaba ezi zikhongozelo
zizele okanye azinanto?





Kufuneka ndibe neekomityi ezintlanu ukuze ndizalise ijagi.

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



Faka umbala ubonise umthamo ochanekileyo wolwelo.

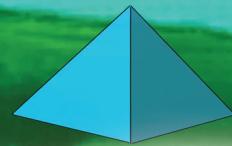
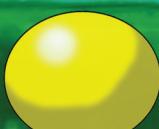
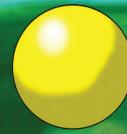
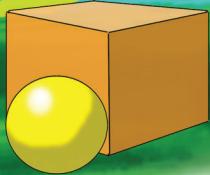
	$+$		$=$	<input type="text"/>
	$+$		$=$	<input type="text"/>
	$+$		$=$	<input type="text"/>



Teacher:
Sign:
Date:



I27

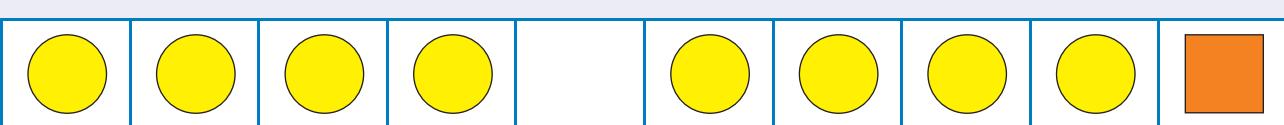
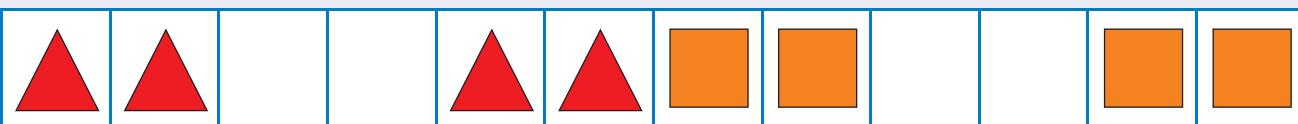
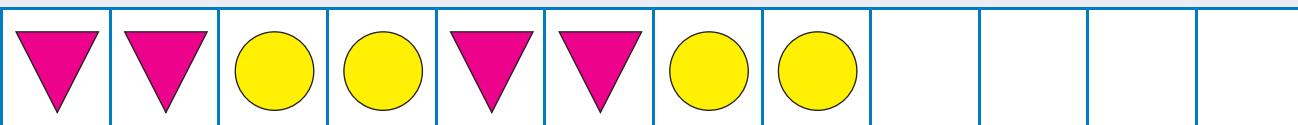
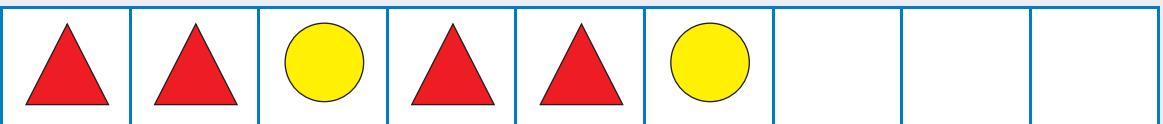


Iipatheni zejometri



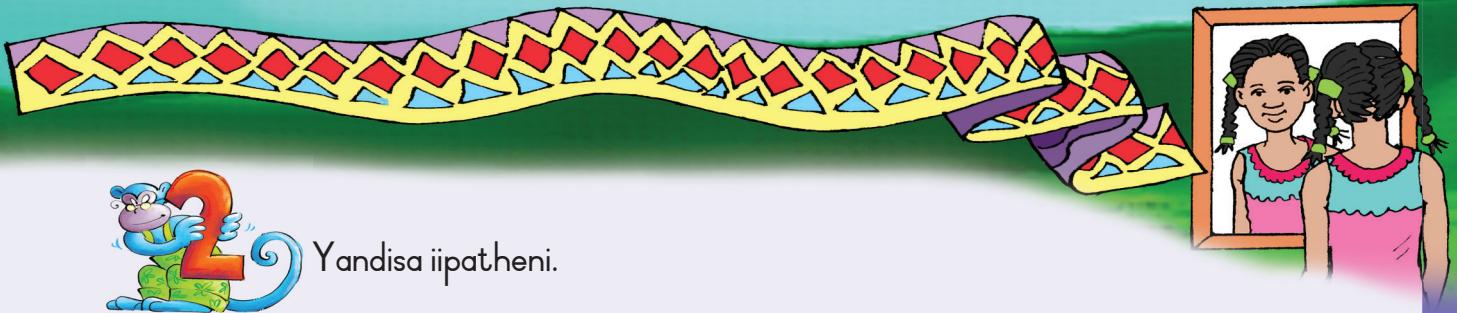
Gqibezela iipatheni.

Ikota 4

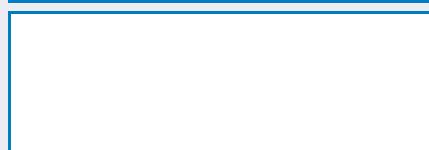
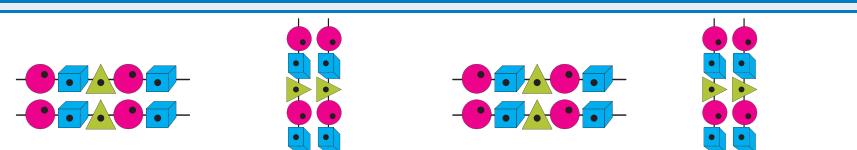
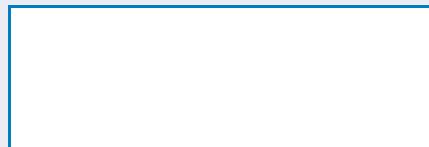
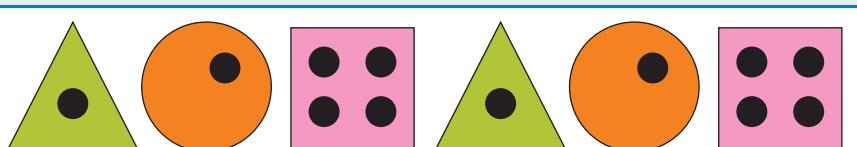
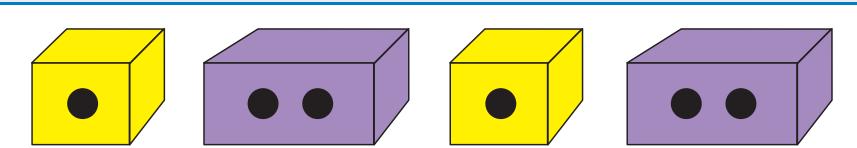
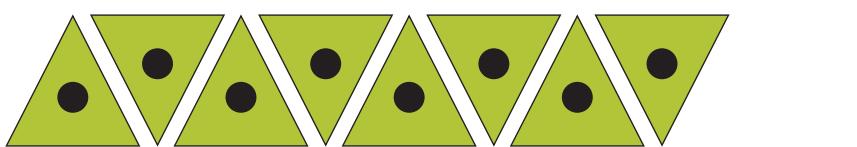


I26

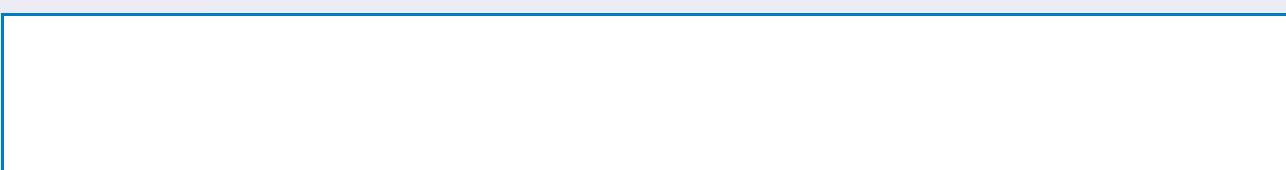
0 1 2 3 4 5 6 7 8 9 10



Yandisa iipatheni.



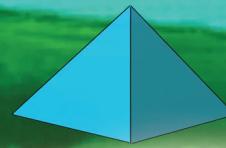
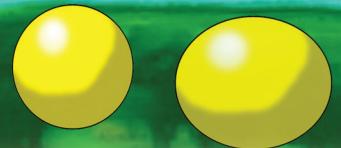
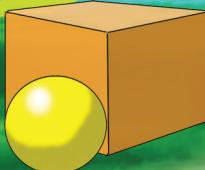
Zenzele ezakho iipatheni usebenzise izangqa, izikwere noonxantathu.



Teacher:
Sign:
Date:



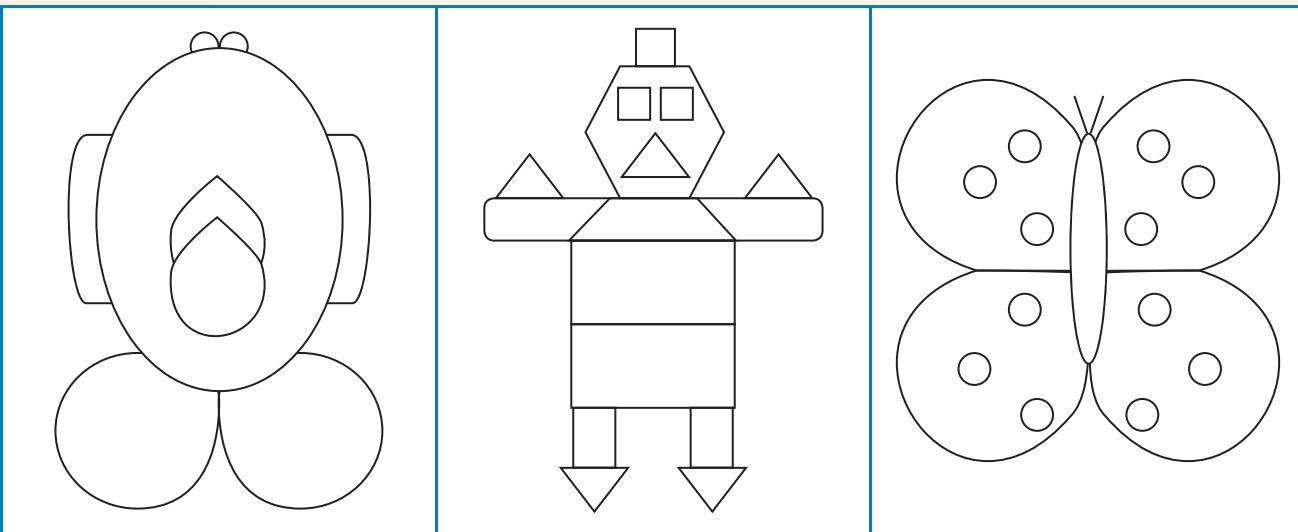
I28



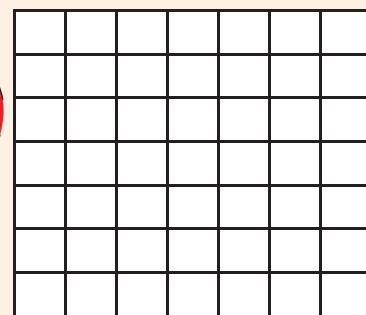
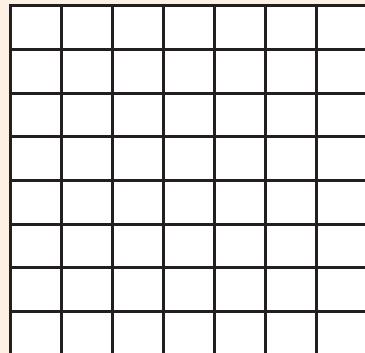
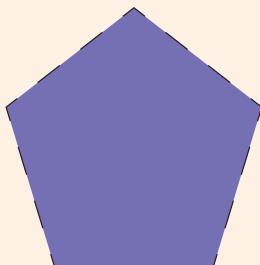
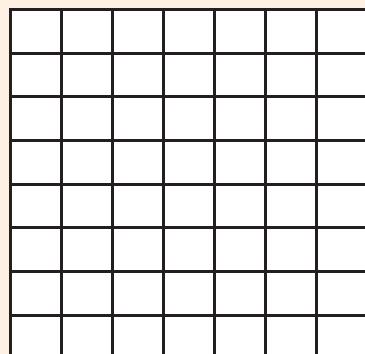
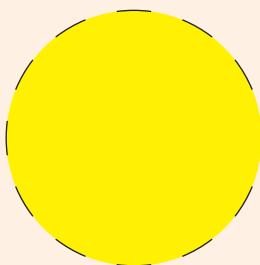
Ikota 4



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.



I28

0

1

2

3

4

5

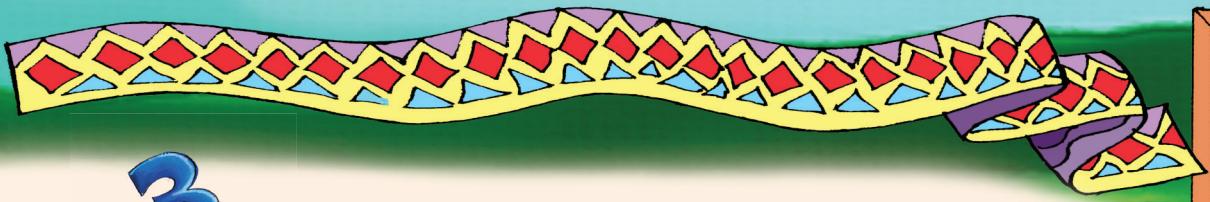
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7

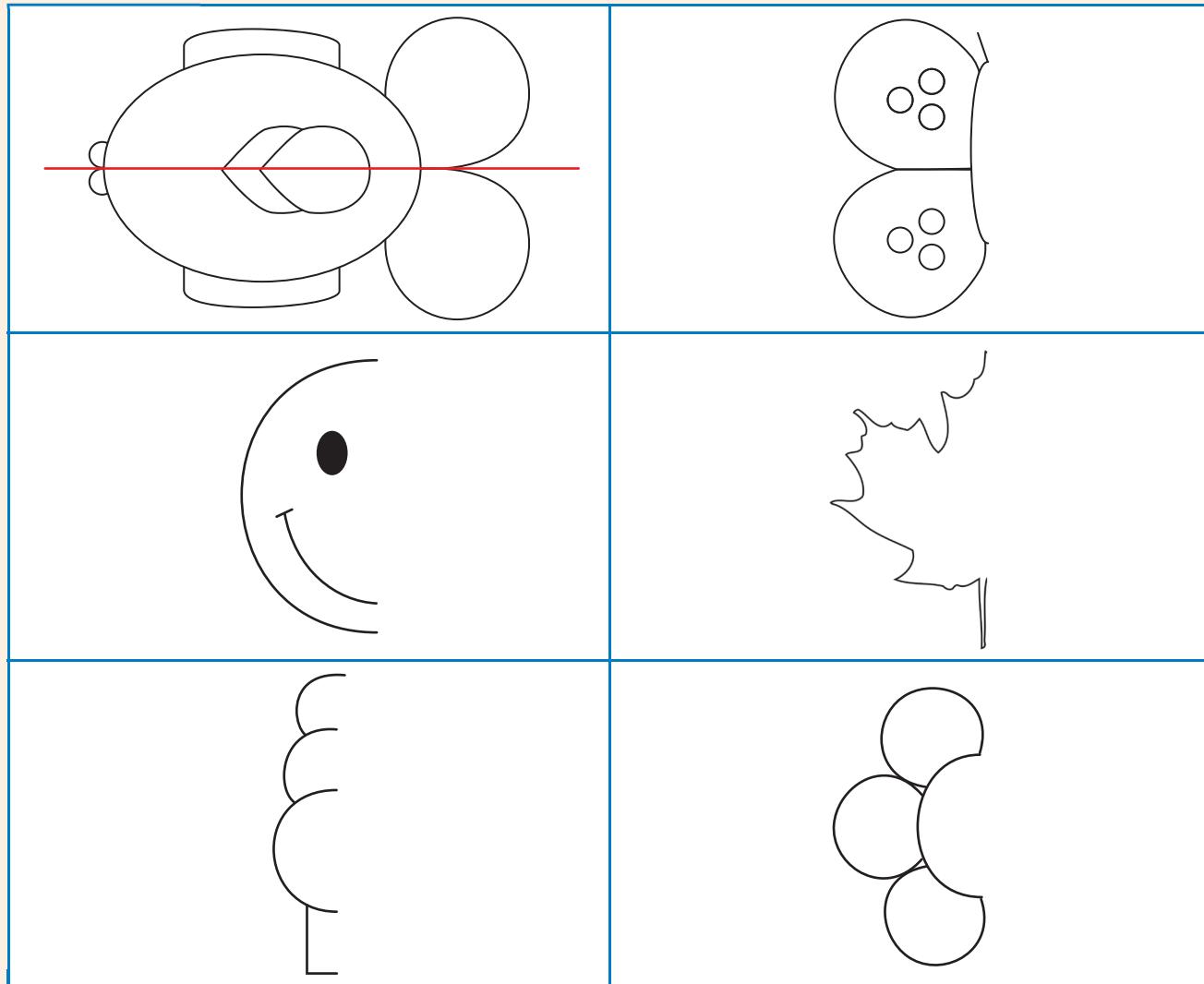
8

9

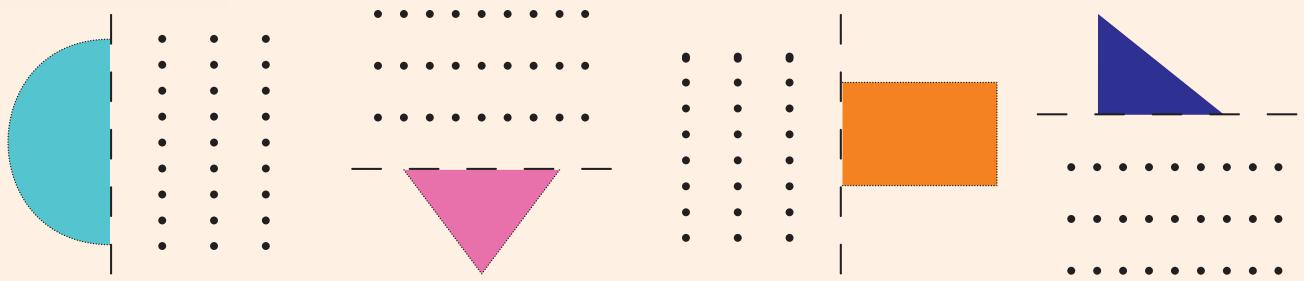
10



Gqibezela umfanekiso ngokuzoba elinye icala elifana twatse.



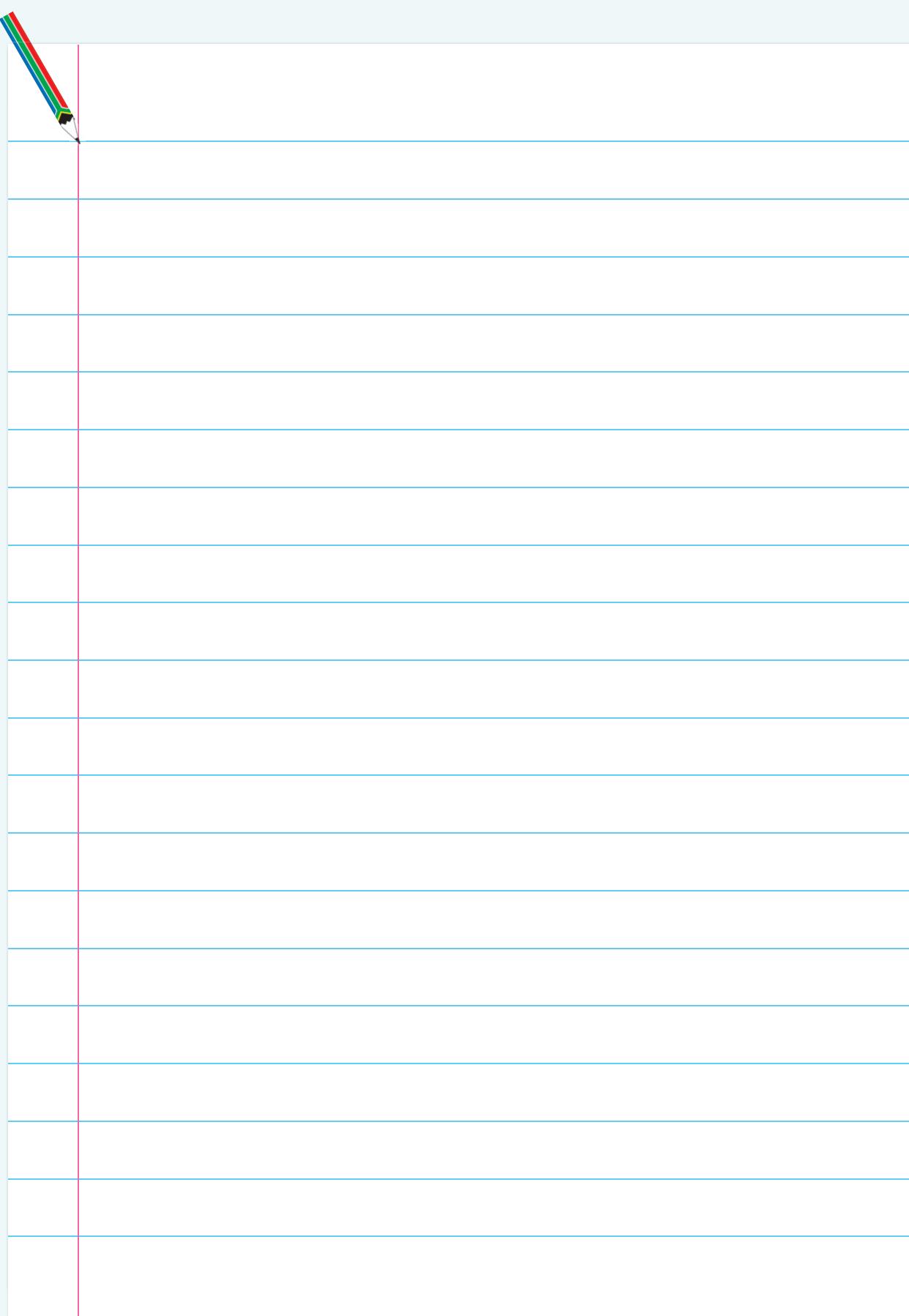
Zoba esinye isiqingatha somfanekiso.



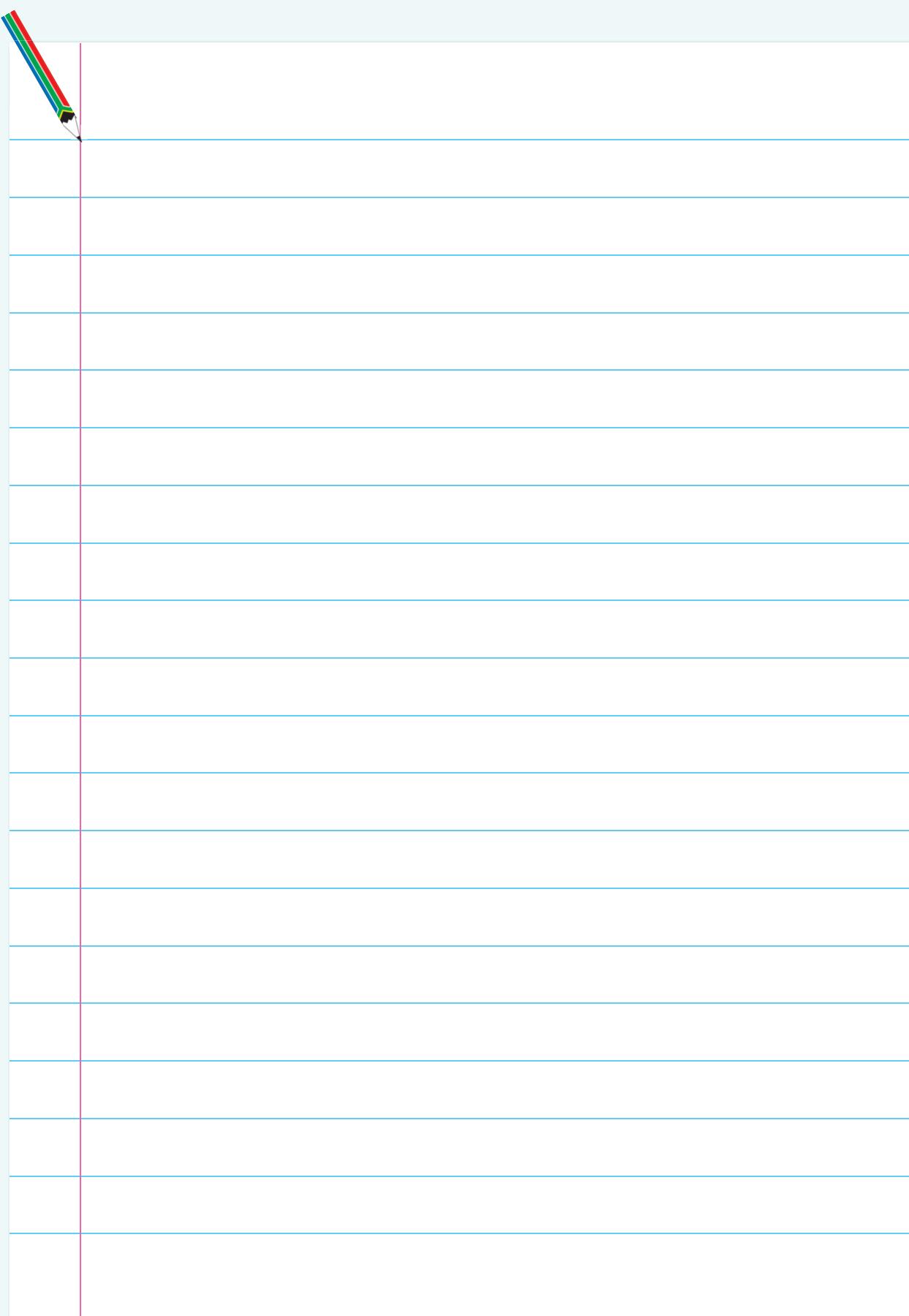
11 12 13 14 15 16 17 18 19 20



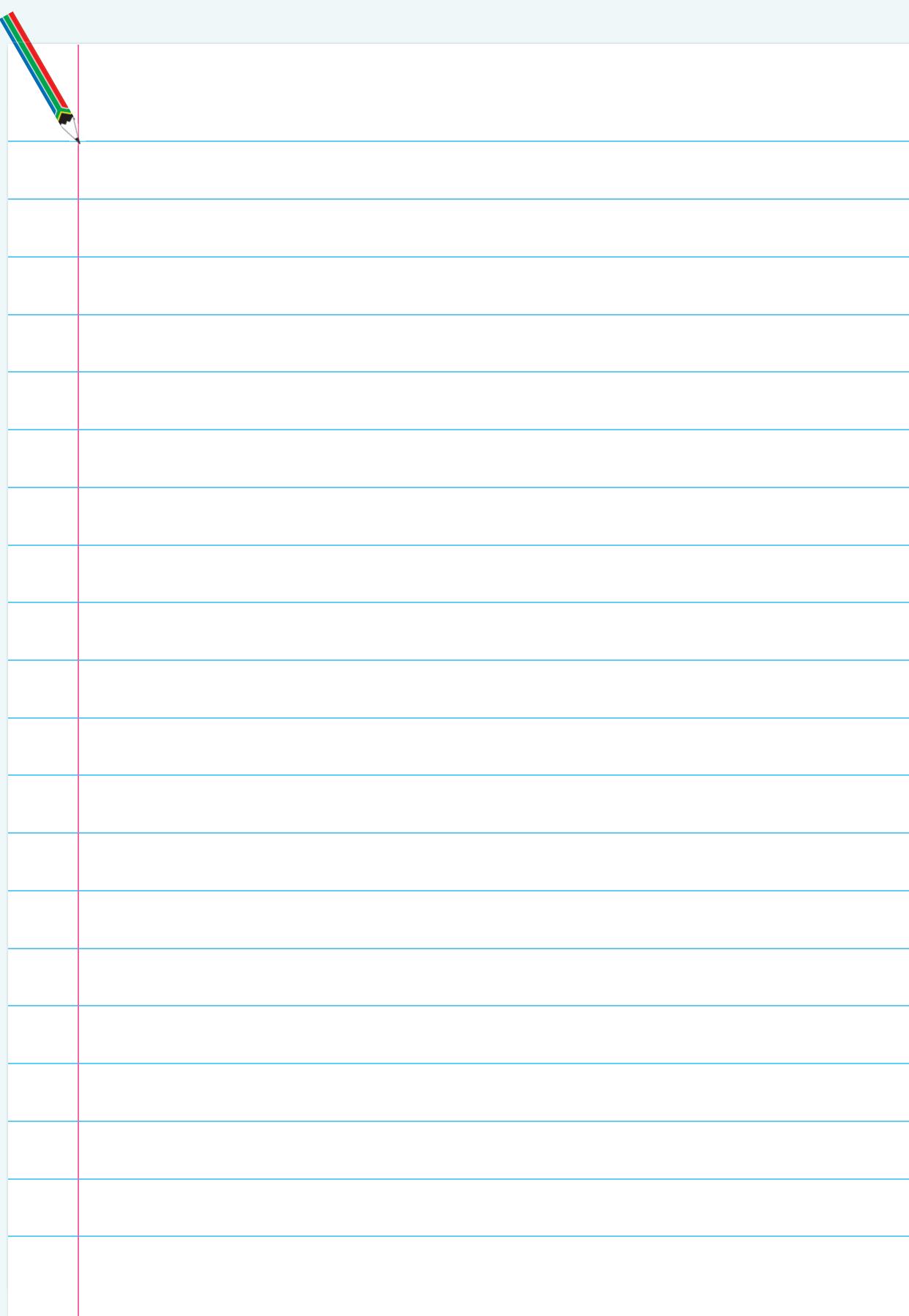
Amanqaku



Amanqaku

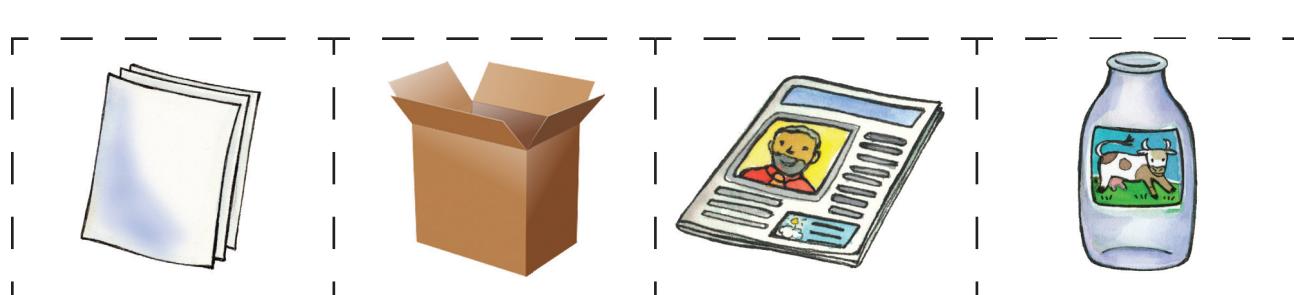
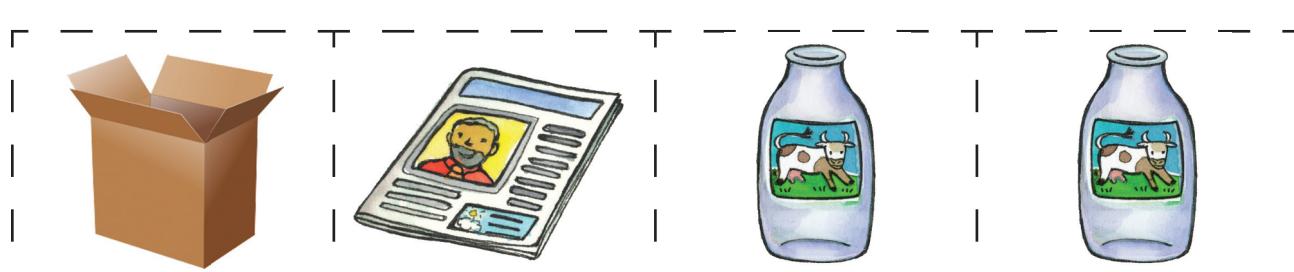
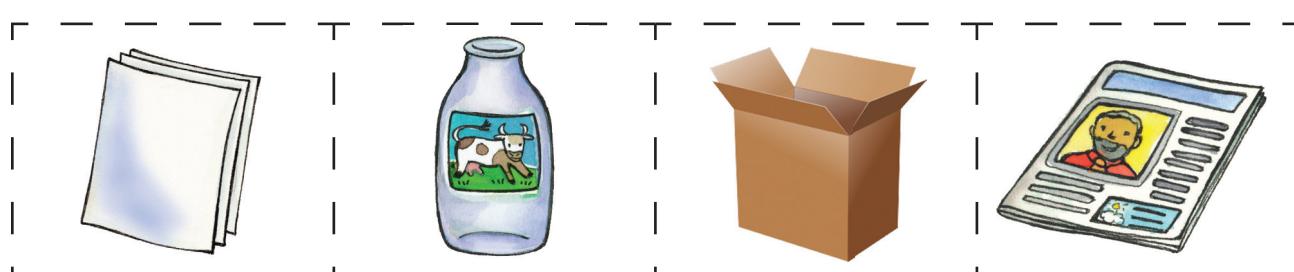
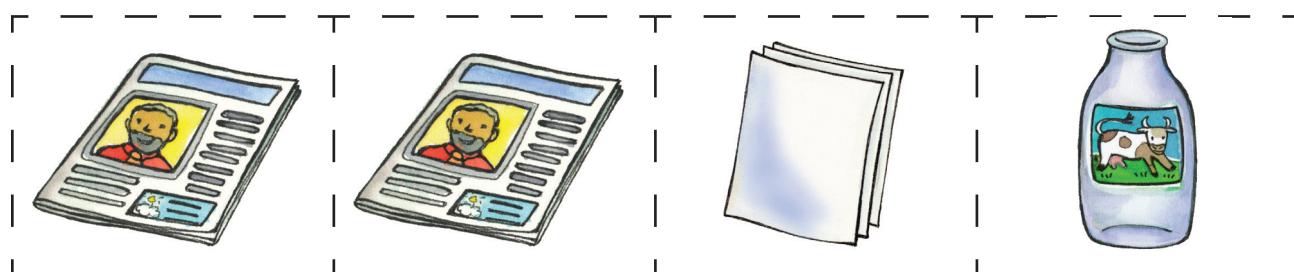
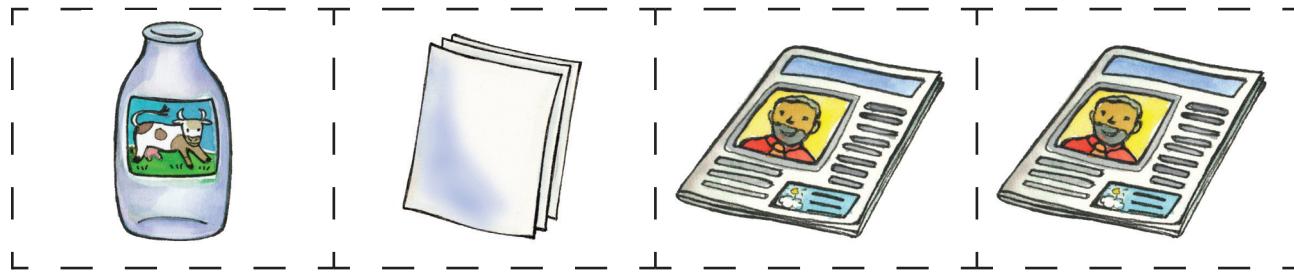


Amanqaku



Cut-out 1

Worksheet 79





Cut out cards 2

Worksheet 83

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

Worksheet 84

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

Worksheet 93

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

Worksheet 115

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

Worksheet 119

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

