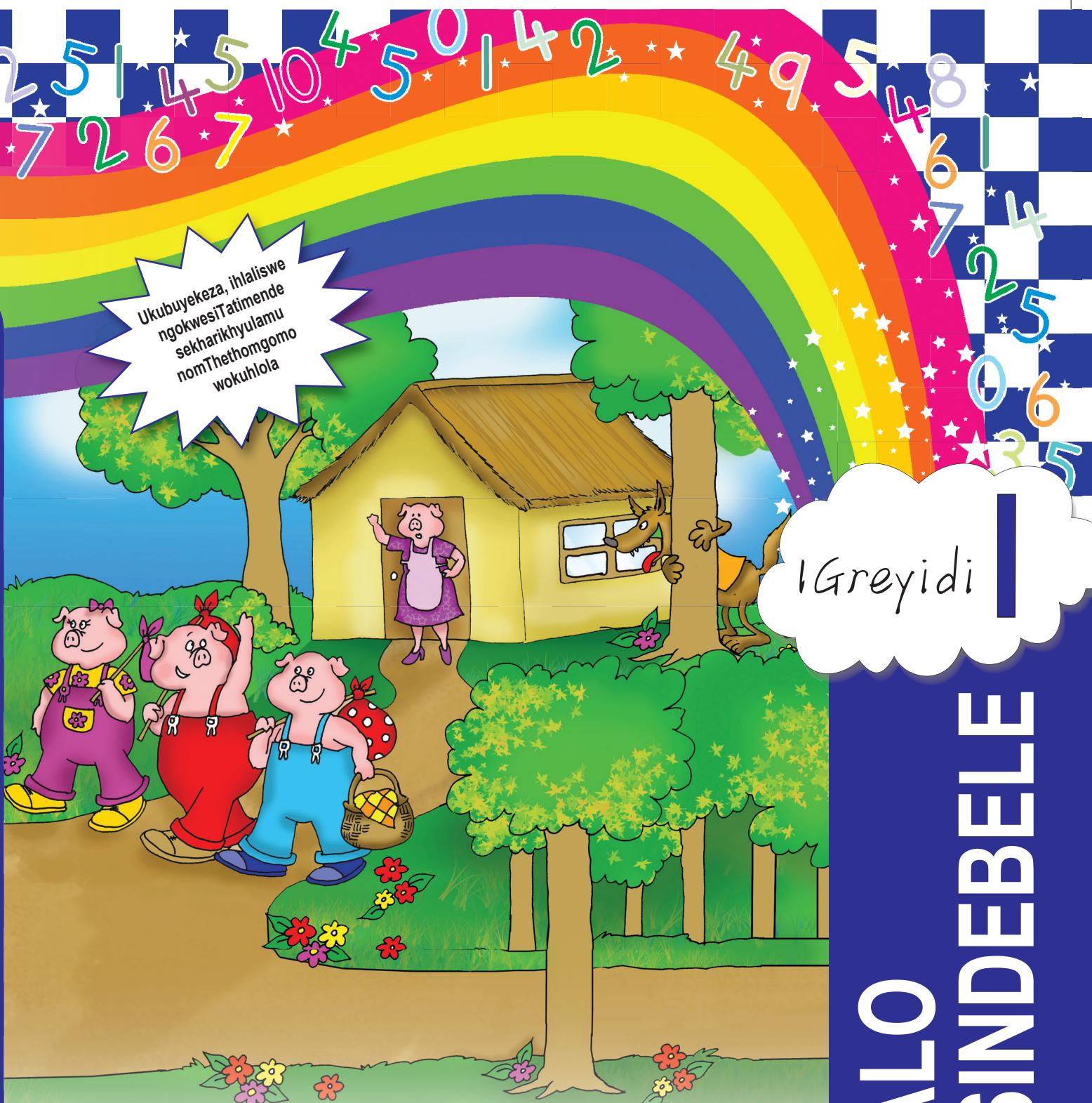


IMBALO NGESENDEBELE

Inawadi 2
Ithemu
3 & 4



IMBALO NGESINDEBELE – iGreyidi | Incwadi 2

ISBN 978-1-4315-0129-8



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

1 2 3 4

Ukufunda ngoMthethosisekelo weRiphabliko yeSewula (1996)

UMthethosisekelo weSewula Afrika (1996) umumethe imithetho yenarha eseqophelweni eliphezulu. Imithetho leyo kumele ilandelwe ngumongameli wenarha, abaphathi beenkundla zemithetho kanye nalabo abasembusweni.

Imithetho leyo ihlathulula kobanaabantu benarha bafenele baphathane njani, nokuthi ngimaphi amalungelo wabo nokuthi ngiziphi iimbopho abanazo. UMthethosisekelo wenzelwe ukusivikela soke thina kanye nabentwana bethu ngomuso.

Kuqakathekile ukwazi izehlakalo zesikhathini esidlulile ko.

Asingabu yeleti iimphoso zangesikhathi esidlulile ko.

UMthethosisekelo usisiza ukucabanga nokwaka ilingomuso elingcono lethu soke.

Thina, abantu beSewula Afrika;
Siyakwazi ukungaphatheki kuhle kwethu ngokomthetho esikhathini esadlulako;
Siphathela phezulu abahlukunyeza ngebangalokobana
kube nobulungiswa begodu nekululeko enarheni yekhethu;
Sihlonipha labo abasebenze ekwakheni begodu nekuthuthukiseni
iphasi lekhethu;
begodu bakholelwabonyana iSewula Afrika ngeyabo boke abahlala kiyo, sibambene
ngokwahluhluhlu kana kwethu.

Ngalokho-ke, ngabajameli bethu abakhethwe ngokukhululekileko; samukela
uMthetho-sisekelo lo njengoMthetho wokuthoma weRiphabliko oza—
Kuqedaukwahlukana okwadlulako begodu sakhe umphakathi ozokudzimelela
kuminqopho yentando yenengi, ubulungiswa begodu namalungelo
wangokomthetho wobuntu.

Ukubeka isisekelo sentando yenengi begodu nomphakathi onzinzileko lapha
umbuso unzinze khona phezu kwentando yesitjhaba begodu nalapha zoke
izakhamuzi zivikele khona ngokomthetho.

Ukwenza ngcono izinga lepilo yazo zoke izakhamuzi begodu nokuvezwa
kwekhgħo lawo woke umuntu;

Ukwakha iSewula Afrika ebumbeneko begodu nenentando yenengi
ezokwazi ukuthatha indawo yayo njengenarha eziżameleko emndenini
weentjhabatjhaba.

**Funa ngekani amalungelo wakho njengesa khamuzi seSewula Afrika bewub
nesibopho so kuvikela amalungelo wabanye abantu.**

Ukwazi umThethomling wa wamalungelo KanyenomThethomling wa weembopho.

UZimu akavikele abantu behethu.
Nkosi Sikelel' iAfrika. Morena boloka setjhaha sa heso.
God seen Suid-Afrika. God bless South Africa.
Mudzimu fhatu shedza Afurika. Hosi katekisa Afrika.

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MATHEMATICS IN ISINDEBELE
GRADE 1 – BOOK 2
TERMS 3 & 4
ISBN 978-1-4315-0129-8

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



UKkz. Angie Motshekga,
nguNqgonqgotjhe
weFundu-Sisekelo



Dorh. Reginah Mhaule,
nguSekela
kaNqgonqgotjhe
weFundu-Sisekelo

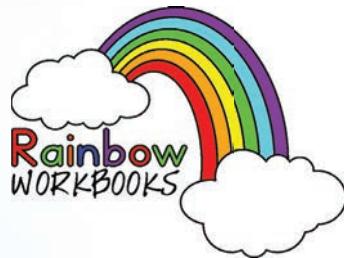
Iincwadi lezi zenzelwe abantwana beSewula Afrika ngaphasi
koburholi bakaNqgonqgotjhe wezeFundu-Sisekelo uMma
u-Angie Motshekga, kanye neSekela lakhe Dorh. Reginah Mhaule.
Iincwadi zokuSebenzela zakwaRainbow ziyingceny yeendlela
ezinengi zomNyango wezeFundu-Sisekelo wokungelela onqophe
ukuthuthukisa ukusebenza ngcono kwabafundi beSewula Afrika
kumagreyidi wokuthoma asithandathu. Njengamanye wamaHlelo
womBuso aphuma phambili, iphrojekthi le isekelwe ngeemali
ezibuya esiKhwameni seeMali seLizweloke. Lokhu kusize umNyango
ukukhupha iincwadi zokusebenzela lezi ngawo woke amalimi
asemthethweni ngaphandle kweendleko. Siyathemba kobana
nizokufunyana iincwadi zokusebenzela lezi zilisizo khulu ekufundiseni
kwenu kwangamalanga kanye nokuqinisekisa kobana abafundi benu
bayayiqeda iharikhylamu.

Sitjheje khudlwana ukuhlahla abotitjhore komunye nomunye
umsebenzi ngokusebenzia iinthombe ezitjengisako bona ngikuphi
umfundu amele akwenze.

Siyathemba kobana abentwana bazokuthabela ukusebenzia
iincwadi lezi njengombana bakhula bebefunda nje begodu wena
titjhore uzokwabelana nabo ithabo lokufunda.

Sinifisela ipumelelo ekusebenziseni iincwadi lezi.

IGreyidi



i m b a l o

ISINDEBELE

Incwadi le ngeyaka -:

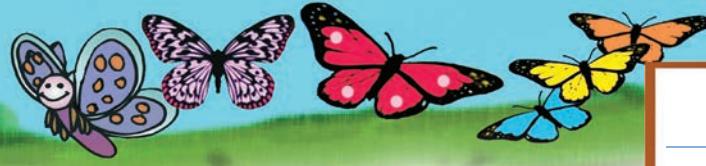
ISINDEBELE

Incwadi

2



65



Ithemu 3

Ukuzwisia inomboro ye - II

Ukubuyekeza:

Zjayeze ukutlola iinomboro.



kunye

I I

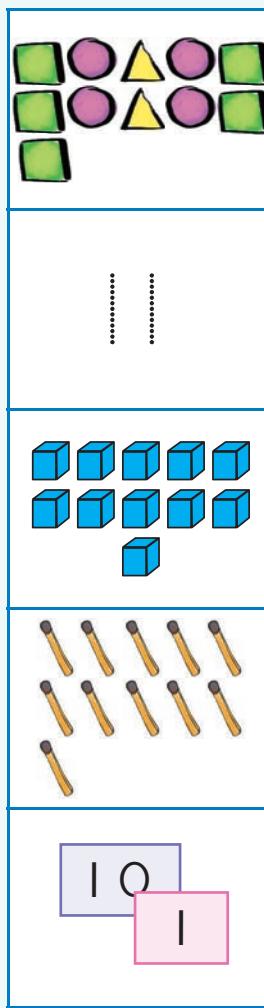
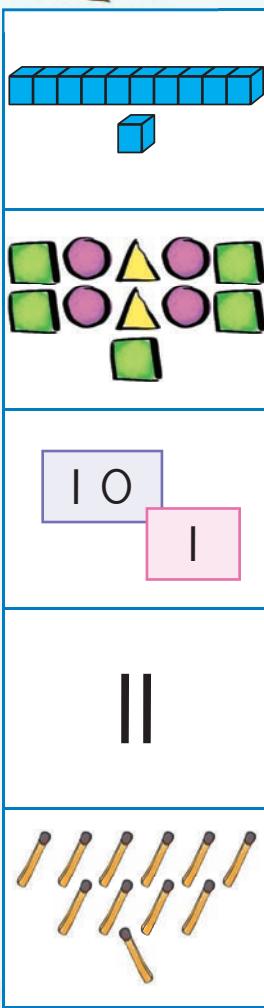


kubili

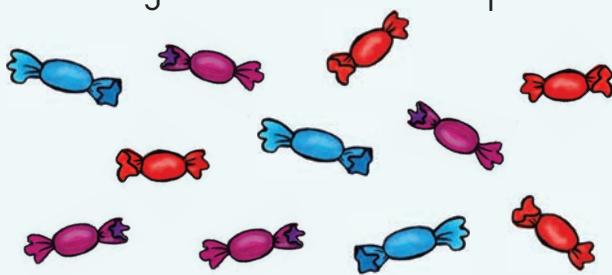
2 2



Madanisa iinthombe.

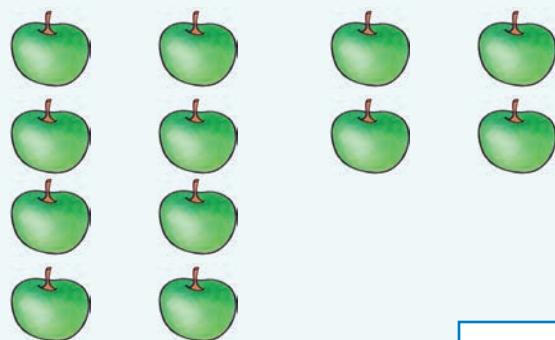


Ndulungela izinto.



Kusele amaswidi amamngaki?

Ndulungela ama-apula ali-10 kwaphela.



Kusele ama-apula amangaki?



0

1

2

3

4

5

6

7

8

9

10



Gadangisa iinomboro.

|| || || || ||

itjhumi nakunye

|| || || || ||



Ikholumu ngalinye
kumele lithi
nalihanganiswako
lenze i-II. Qedeleta
ngeenomboro
ezitlhayelako.



3	5	4
4	5	
4		2



Gwala izinto ezili-II.



Qedeleta ngeenomboro
ezitlhayelako.

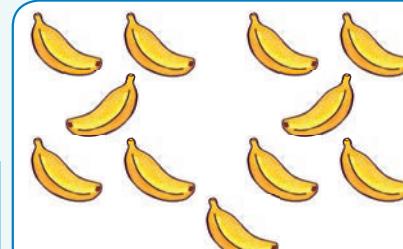
1

2

4



Bala izinto.



Qedeleta itheyibula. Umuda ngamunye
unesithombe, inomboro nebizo lenomboro leyo.

 		itjhumi nanye
		itjhumi nanye
	itjhumi nakunye	



Inomboro encani
ngakunye ku-II. _____

Inomboro ekulu
ngakunye ku-II. _____



Teacher:
Sign:

Date:



11 12 13 14 15 16 17 18 19 20

66



Ithemu 3

Ukuzwisia inomboro ye -12

Ukubuyekeza:

Zjayeze ukutlola iinomboro.



kuthathu

3 3



kune

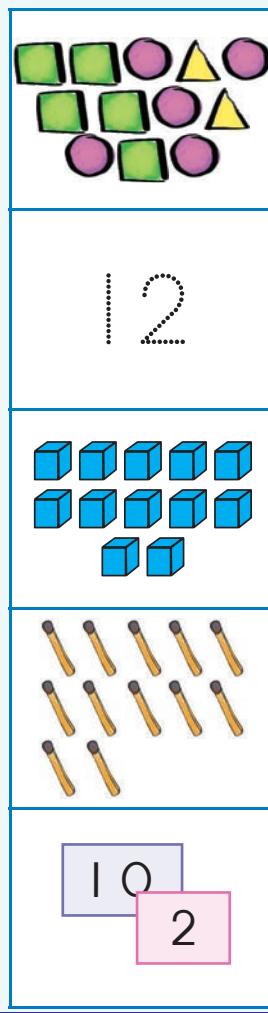
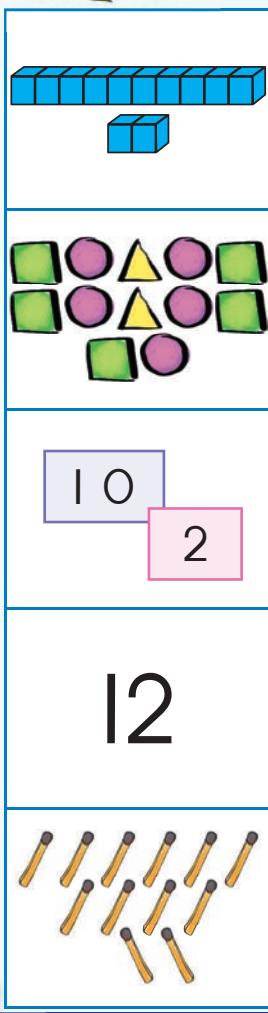
4 4



Madanisa iinthombe.



Ndulungela izinto.



Ndulungela amanyathelo ali -10 kwaphela.



Kusele amanyathelo amangaki?

Ndulungela amaqephe ali -12 kwaphela.



Kusele amaqephe amangaki?



4

0

1

2

3

4

5

6

7

8

9

10



Gadangisa iinomboro.

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

itjhumi nambili

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

Ikholumu ngalinye
kumele lithi
nalihanganiswako
lenze i-12. Qedeleta
ngeenomboro
ezitlhayelako.

	7	6
4		4
3	2	
12	12	12



Gwala izinto ezili-12.



Qedeleta ngenomboro
etlhayelako.

3			5		
8				11	



Bala izinto.



Qedeleta itheyibula. Umuda ngamunye
unesithombe, inomboro nebizo lenomboro leyo.

 		itjhumi nambili
	12	itjhumi nambili
	 	12
	itjhumi nambili	



Inomboro encani
ngakunye ku-12. _____

Inomboro ekulu
ngakunye ku-12. _____



Teacher:
Sign:

Date:



67



Ithemu 3

Ukuzwisia inomboro ye -13

Ukubuyekeza:

Zjayeze ukutlola iinomboro.



kuhlalu

5 5

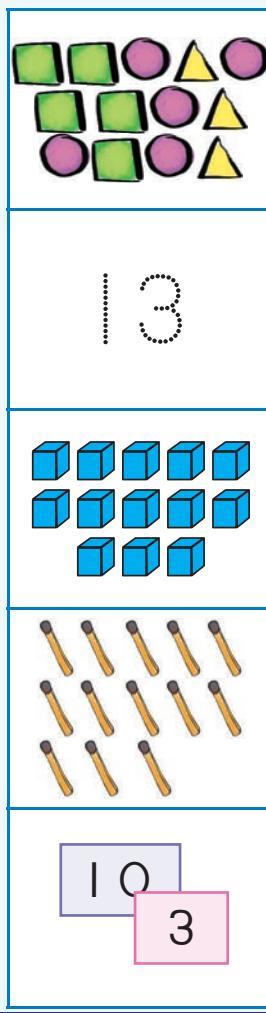
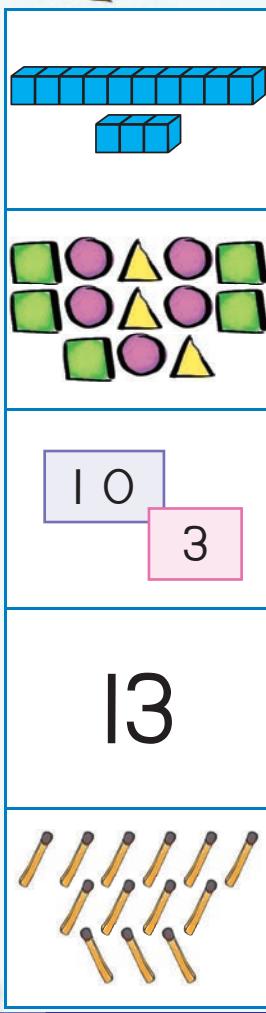


kuthandathu

6 6



Madanisa iinthombe.

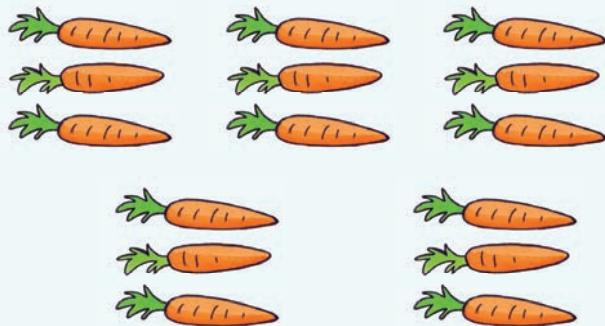


Ndulungela izinto.



Kusele abokatsu abangaki?

Ndulungela amakherothi ali -13 kwaphela.



Kusele amakherothi amangaki?



6

0

1

2

3

4

5

6

7

8

9

10



Gadangisa iinomboro.

I3	I3	I3	I3
itjhumi nantathu			
I3	I3	I3	I3



Ikholumu ngalinye
kumele lithi
nalihanganiswako
lenze i-I3. Qedeleta
ngeenomboro
ezitlhayelako.

I	2	6
I		
	3	2
I3	I3	I3



Gwala izinto ezili-I3.

Kwanje zigwale ngendlela eyehlukileko.

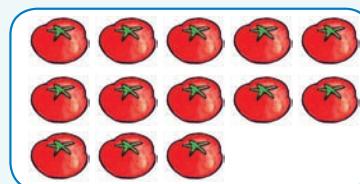


Qedeleta ngeenomboro
ezitlhayelako.

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



Bala izinto.



Qedeleta itheyibula. Umuda ngamunye
unesithombe, inomboro nebizo lenomboro leyo.



		itjhumi nantathu
	I3	itjhumi nantathu
I3		
	itjhumi nantathu	

Inomboro encani
ngakunye ku-I3. _____

Inomboro ekulu
ngakunye ku-I3. _____



68



Ilanga:

Ukuzwisia inomboro ye -14

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



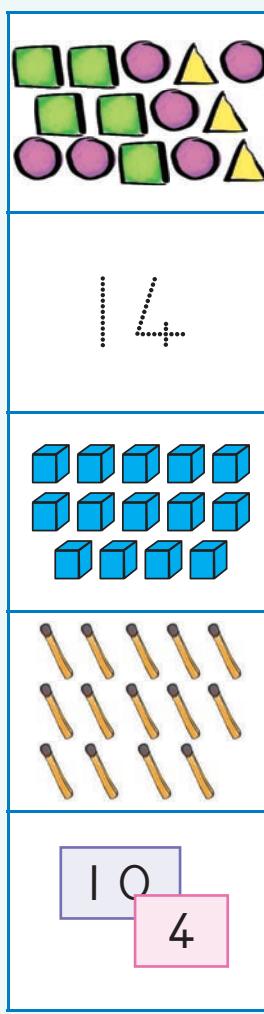
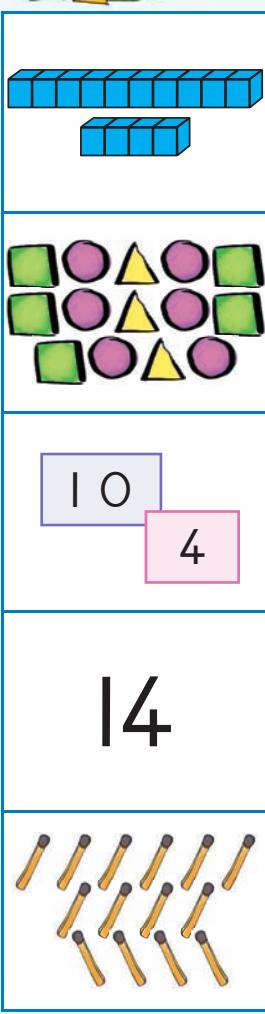
7 7



8 8



Madanisa iinthombe.



Ndulungela izinto.



Kusele amaviyavyani amangaki?

Ndulungela amarogo ali-14 kwaphela.



Kusele amarogo amangaki?





Gadangisa iinomboror.

|4 |4 |4 |4

itjhumi nane

|4 |4 |4 |4

Ikholumu ngalinye
kumele lithi
nalihanganiswako
lenze i-14. Qedeleta
ngeenomboro
ezitlhayelako.

1		2
	5	1
3	2	
14	14	14



Gwala izinto ezili-14.

Kwanje zigwale ngendlela eyehlukileko.



Bala izinto.



Qedeleta ngeenomboro
ezitlhayelako.

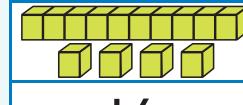


Qedeleta itheyibula. Umuda ngamunye
unesithombe, inomboro nebizo lenomboro leyo.



|4

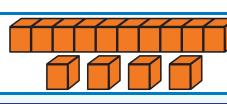
itjhumi nane



|4



itjhumi nane



Inomboro encani
ngakunye ku-14. _____

Inomboro ekulu
ngakunye ku-14. _____

Teacher:
Sign:
Date:



69



Ukuzwisia inomboro ye - 15

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



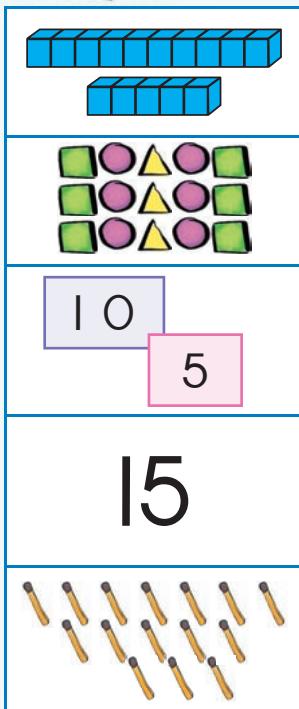
q q



10 10

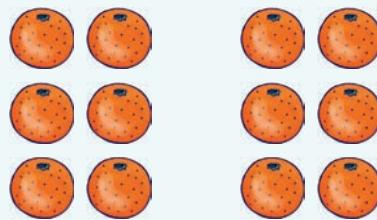


Madanisa iinthombe.

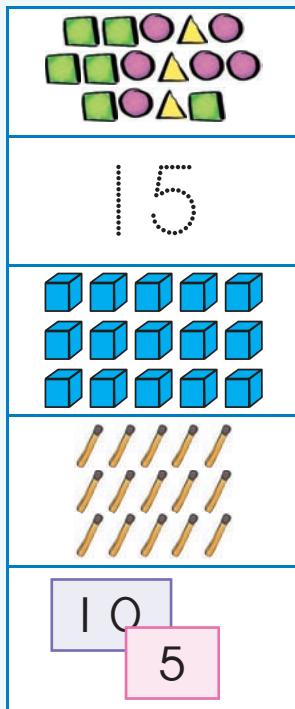


Ndulungela izinto.

Ndulungela ama-orentji ali-10 kwaphela.



Kusele ama-orentji amangaki?



Ndulungela iinkwekwezi ezili-15 kwaphela.



Kusele iinkwekwezi ezingaki?



Qedeleta ngeempendulo.



$7 + 2 =$



0

1

2

3

4

5

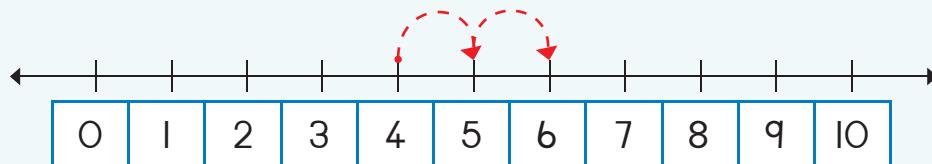
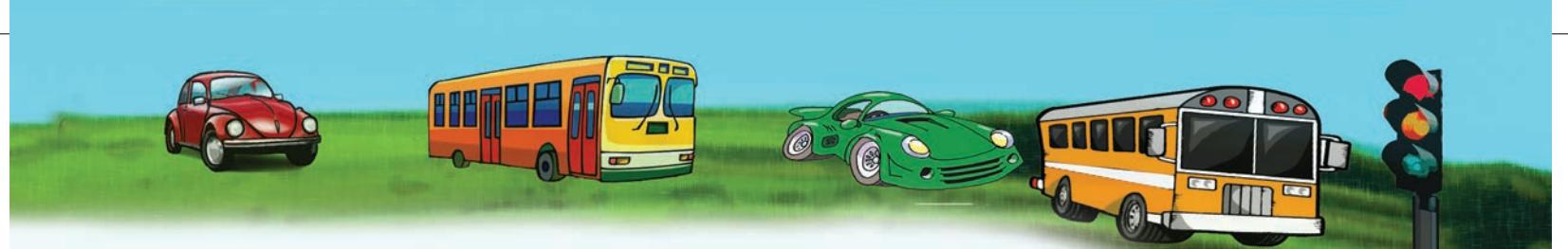
6

7

8

9

10



$$4 + 2 =$$



Gadangisa iinomboro.

15 15 15 15

itjhumi nahlanu

15 15 15 15



Gwala izinto ezili-15.

Kwanje zigwale ngendlela eyahlukileko.



Qedelela ngeenomboro
ezitlhayelako.

7

11

12

13



15

15



13

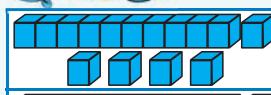
12



Bala izinto.

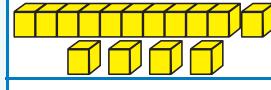


Qedelela itheyibula. Umuda omunye nomunye
unesithombe, inomboro negama lenomboro leyo.



15

itjhumi nahlanu



itjhumi nahlanu



15



Inomboro encani
ngakunye ku-15. _____

Inomboro ekulu
ngakunye ku-15. _____

Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



70



Ukuhlanganisa bekufike ema - 20 – Ragela njalo phambili

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

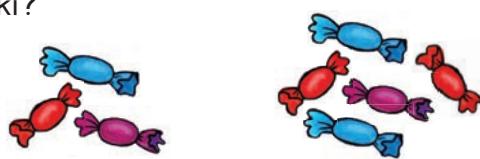
6

sithandathu



Qalisisa isithombe bese utlola umutjho weenomboro komunye nomunye umutjho.

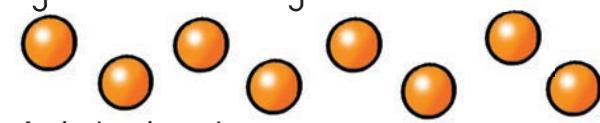
ULisa unamaswidi ama - 3. UMandla unamaswidi ama - 5. Bobabili banamaswidi amangaki?



Asibale:

$$\begin{array}{c} 3 \\ \dots \\ + \end{array} \begin{array}{c} 4 \\ 5 \\ 6 \\ 7 \\ 8 \end{array} = \boxed{}$$

Benginamabula abu - 8 ngase ngilahlekelwa mamabula ama - 4. Ngisele ngamamabula amangaki sele awoke?

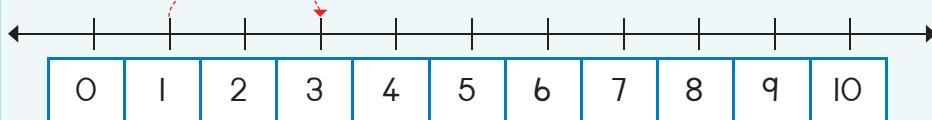


Asibale sibuyele emuva:

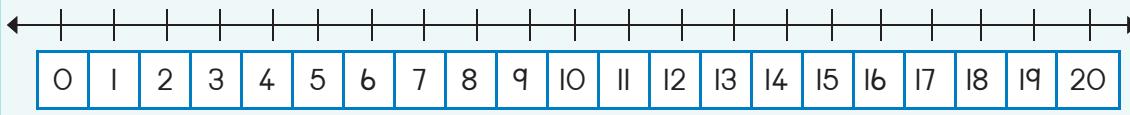
$$\begin{array}{c} 8 \\ \dots \\ - \end{array} \begin{array}{c} 7 \\ 6 \\ 5 \\ 4 \end{array} = \boxed{}$$



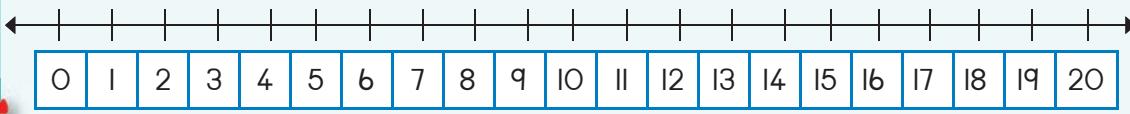
Qedelela ngeempendulo.



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



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



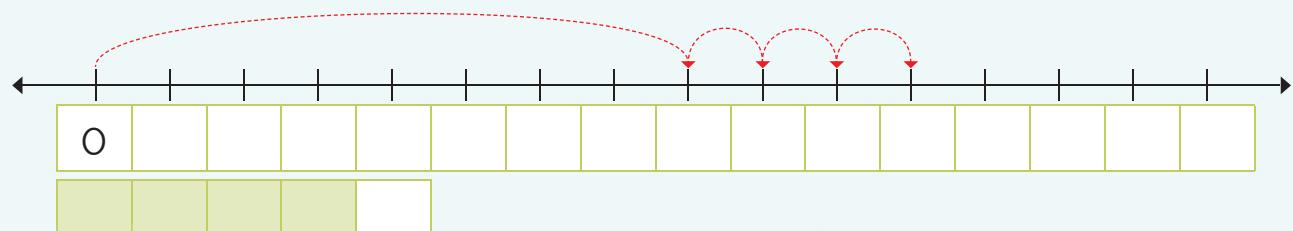
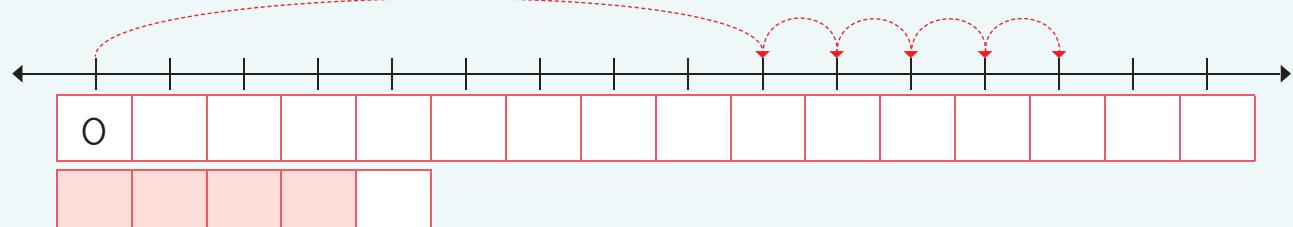
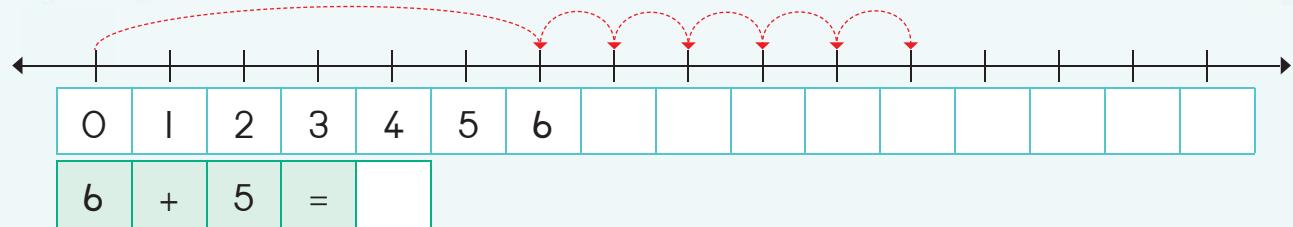
$$15 + 2 = \boxed{ }$$



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



Tlola iinomboro kunambalayini bese utlola umutjho weenomboro umutjho ngamunye.



Bala ngakubili.

3	5
4	
2	



7	
8	
6	



Qedelela ngeenomboro.

Ngineminyaka eli - 7 ubudala.

Eminyakeni emi - 5 ezako, ngizabe ngineminyaka emingaki?

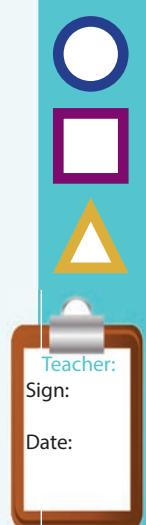
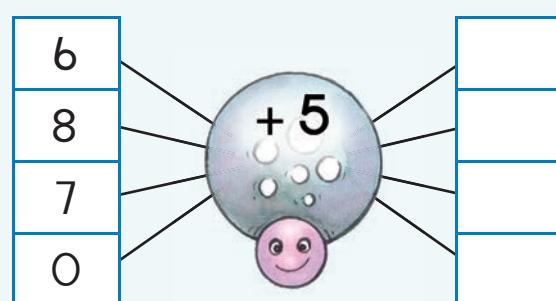
7

--	--	--	--	--

Ngizabe ngineminyaka _____.



Siza isiswebu ukuqedelela isibalo.



71



Ukuhlanganisa – ukwakha nokuhlephula iinomboro bekufike e -10

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

7

likhomba



Qedeleta ngeenomboro.

$3 + 3 = \square$



Khalara ukutjengisa okulandelako.

$0 + 5 = \square$



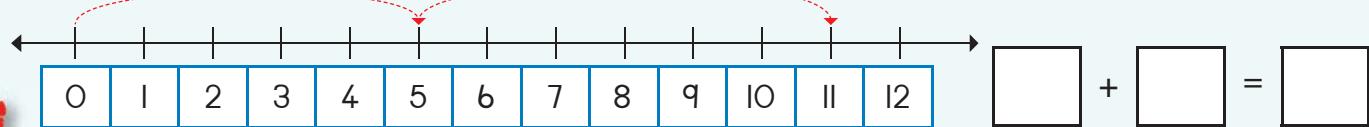
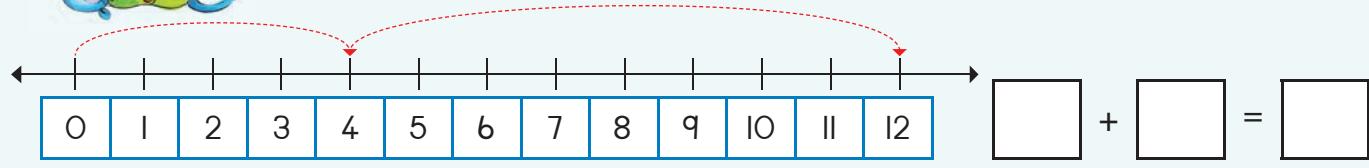
$3 + 2 + 1 = \square$



$3 + 9$	
$4 + 8$	
$5 + 7$	
$6 + 6$	
$7 + 5$	

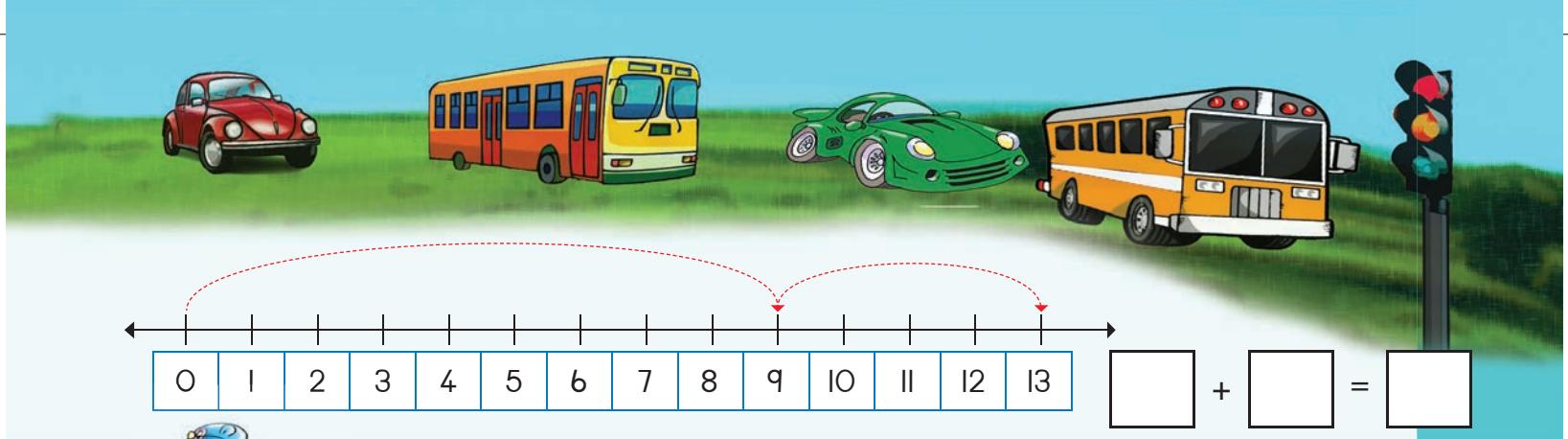


Tlola isibalo salokhu:

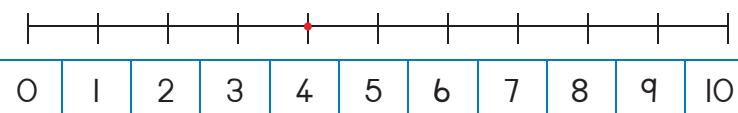


14

0 | 2 3 4 5 6 7 8 9 10



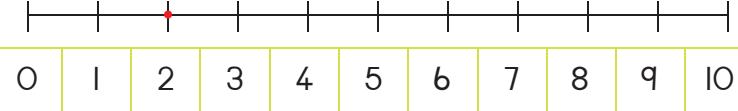
Qedelela inambalayini bese utlola ipendulo.



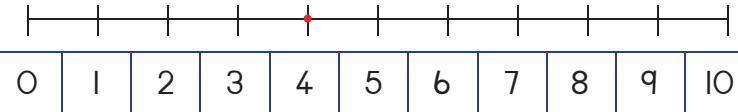
$$4 + 5 + 1 = \boxed{\quad}$$



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



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



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



Rarulula isibalo esilandelako ngokuthi ugwale iinthombe.

Benginamamabula ama -5. Umngani wami unamamabula abu -8. Sobabili sinamamabula amangaki sele awoke.

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

Ngiphathele utitjhore wami amathuthumbo ali -9. Umngani wami umphathele asi -6. Sobabili, siphathele utitjhore amangaki sele awoke?

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



72



Ukuhlanganisa – ukwakha nokuhlephula iinomboro kufika ema - 20

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlolola ibizo lenomboro.

8

bundane

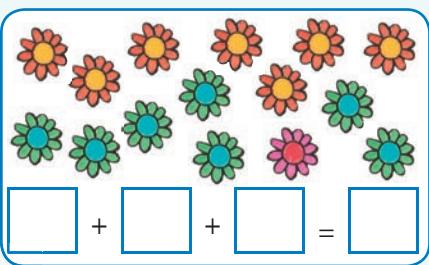
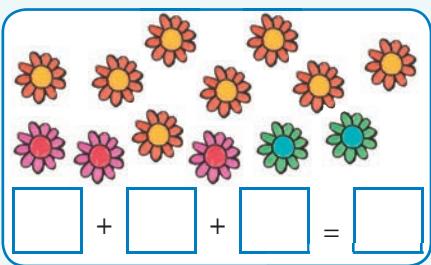
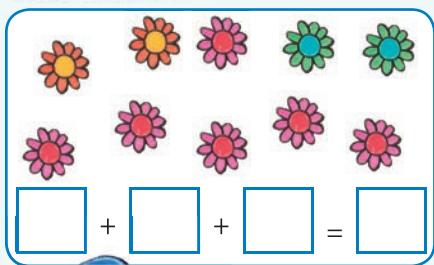


Qedelela ngependulo.

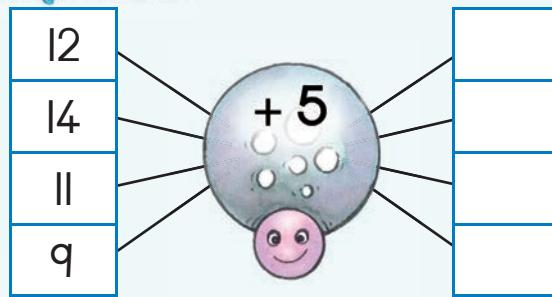
$0 + 2 =$		$2 + 2 =$		$4 + 2 =$		$6 + 2 =$		$8 + 2 =$	
$10 + 2 =$		$12 + 2 =$		$14 + 2 =$		$16 + 2 =$		$18 + 2 =$	



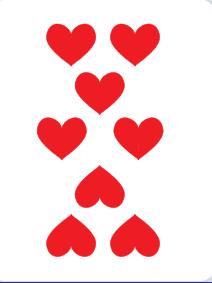
Sebenzisa umbala owehlukileko wamathuthumbo ukuzakhela yakho imitjho yeenomboro.



Siza isiswebu ukuqedelela iimbalo.



Ziinhliziyo ezingaki?

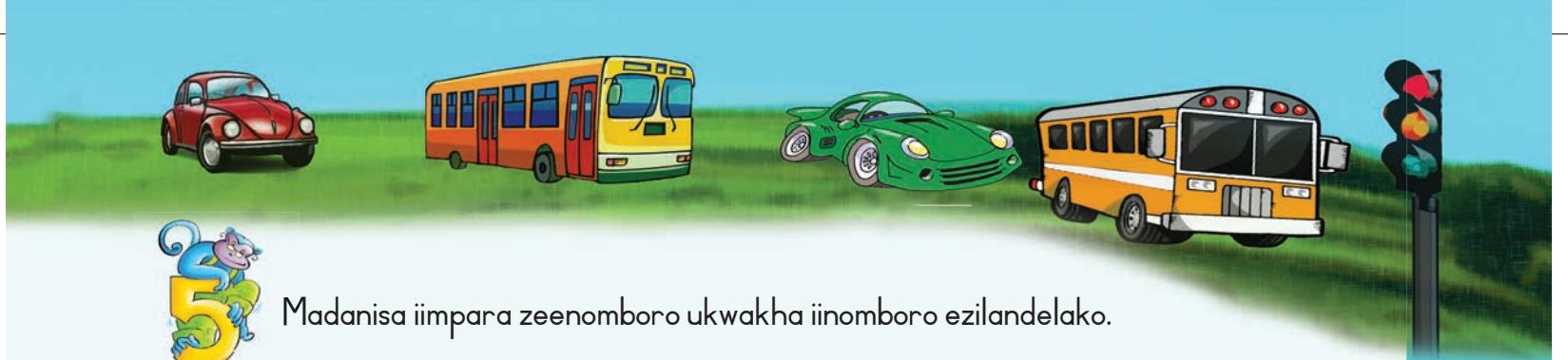


Zenzele isibalo sakho.

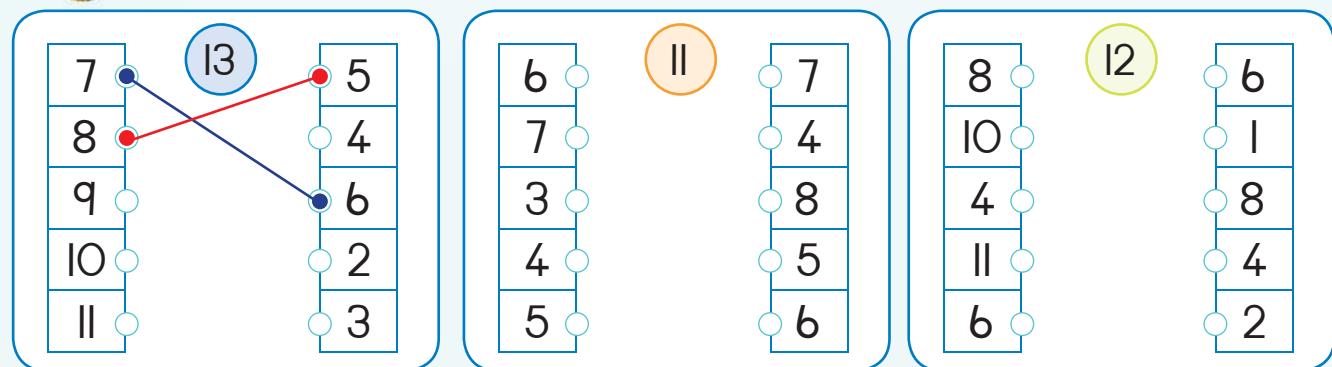
$$[] + [] = []$$



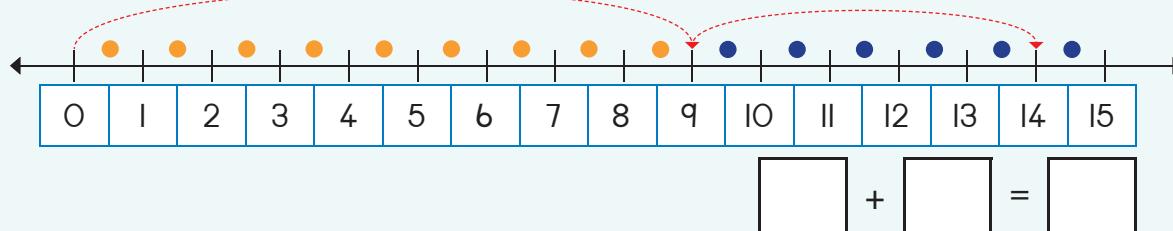
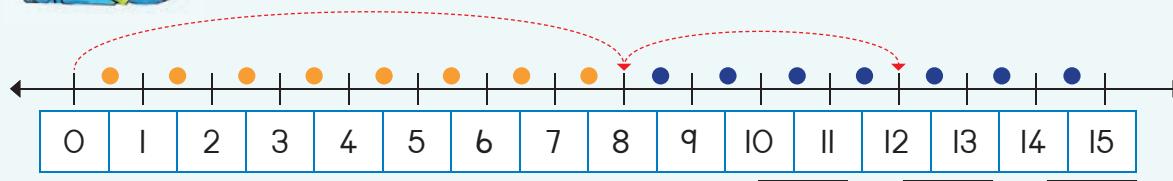
16 0 | 2 3 4 5 6 7 8 9 10



Madanisa iimpara zeenomboro ukwakha iinomboro ezilandelako.



Tlola umutjho weenomboro walokhu:



Ukubuyekeza:

Ukubuyekeza: Khalara phezu kwependulo enembako.

ngaphambili	ngaphambili	ngaphambili	ngaphambili
ngemuva	ngemuva	ngemuva	ngemuva
ngeqadi	ngeqadi	ngeqadi	ngeqadi



Teacher:
Sign:
Date:



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Ukuhlanganisa nokukhupha – ukwakha nokuhlephula

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlolola ibizo lenomboro.

9

lithoba



Qedelela ngependulo.



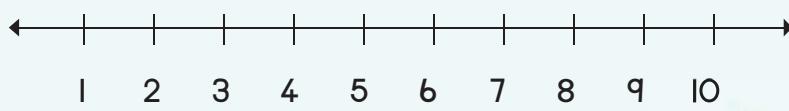
$$4 - 1 =$$



$$5 - 3 =$$



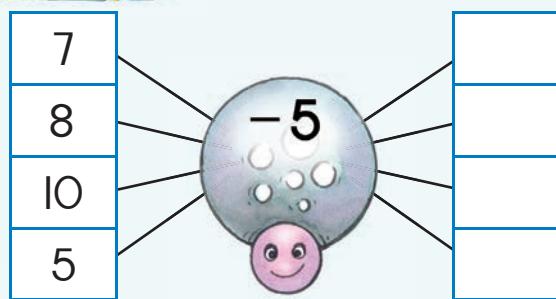
$$4 - 2 =$$



$$5 - 2 =$$



Siza isiswebu ukuqedelela
iimbalo.



Ziinhlizyo ezingaki?



Zenzele isibalo sakho.

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



0

1

2

3

4

5

6

7

8

9

10



Balisisa okulandelako.

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

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

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

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

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

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

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

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

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

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

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

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



Tlola iimpendulo bese uyakhalara ubuye ugwale.

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

Ipendulo inganikelwa ngale indlela:

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

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

Ipendulo inganikelwa ngale indlela:

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

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

Ipendulo inganikelwa ngale indlela:

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

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

Ipendulo inganikelwa ngale indlela:

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

Ukubuyekeza:

Zijayeye ukutlola ibizo lenomboro.

10

litjhumi



Teacher:

Sign:

Date:



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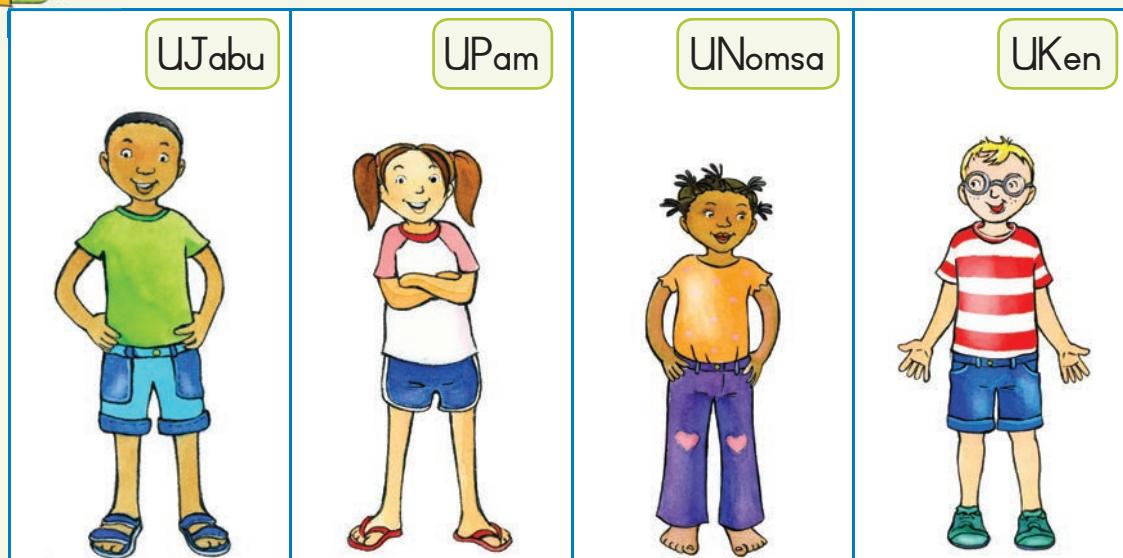
Ilanga:

Ubude

Ithemu 3



Qalisisa isithombe bese uphendula imibuzo.



Ngubani omude khulu?

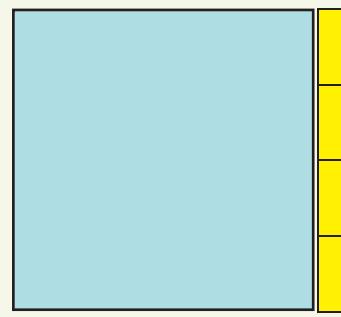
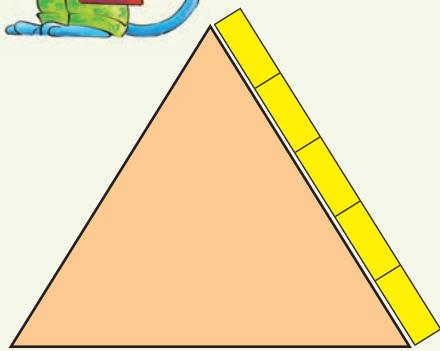
Ngubani omfitjhani khulu?

Ngubani umsana omfitjhani khulu?

Ngubani umntazana omfitjhani khulu?



Amahlangothi amade wamajamo amabhlogo amangaki ubude?



20

0

1

2

3

4

5

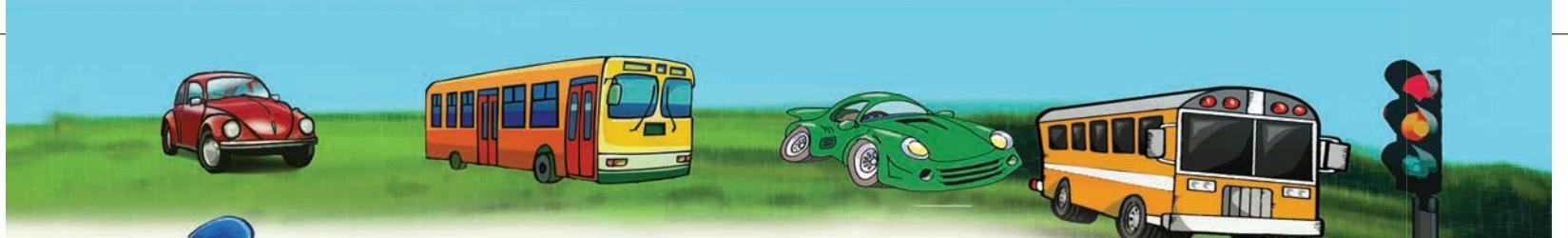
6

7

8

9

10



Itafula lithathha amabhlogo angangani ubude kanye nobubanzi?

Itafula lithathha iimpensela ezingangani ubude nobubanzi?



Ububanzi bamabhlogo ____.

Ubude bamabhlogo ____.



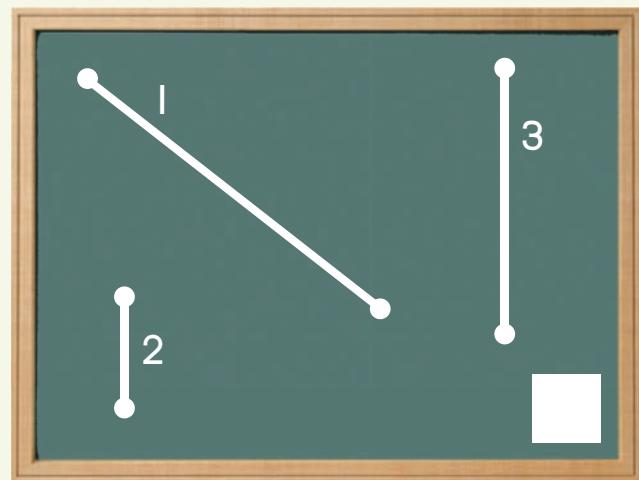
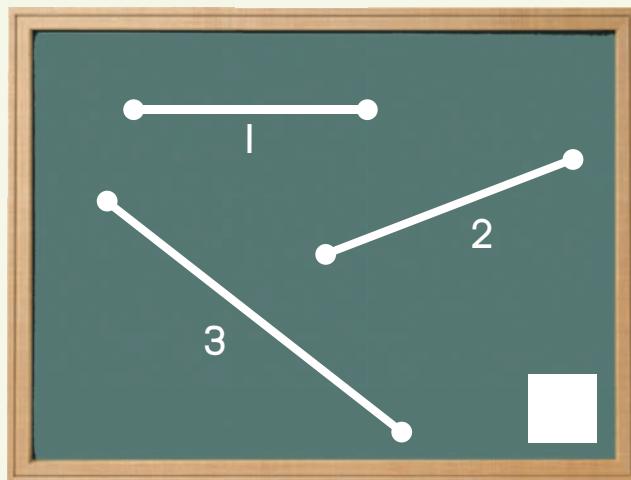
Ububanzi bamabhlogo ____.

Ubude bamabhlogo ____.



Ngiwuphi umuda omfitjhani khulu? Umuda woku-1, wesi-2 nanyana wesi-3?

Ngiwuphi umuda omude khulu?
Umuda woku-1, wesi-2 nanyana wesi-3?



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Imali netjhentjhi

Ilanga:

Emudeni ngamunye, thika inani eliphezulu.

Ithemu 3



Thika imali yesimbi/emumuwa ezokwenza i-RIO.



Thika imali yesimbi/emumuwa ezokwenza ama-R20.



0

1

2

3

4

5

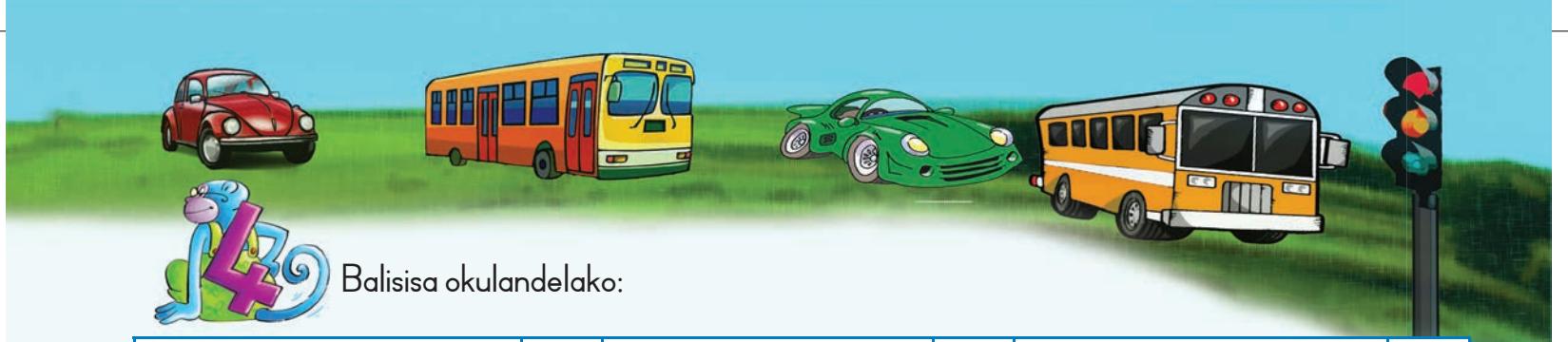
6

7

8

9

10



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



Rarulula isibalo esilandelako:

Nginehlavu ye -R2 nehlavu ye -R5.
Umngani wami uneenhlavu ezintathu
zama -R2. Ngubani onemali enengi khulu?

Nginehlavu ye -R5 nehlavu ye -RI.
Umngani wami uneenhlavu ezintathu ze
mali ema -R5. Ngubani onemali enengi?



Nginemali ema -RI5:

Ngibhadela

Itjhentjhi

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



Balisisa okulandelako:

Nginemali ema -RI5. Ngithenga iphakethe
lamazimba ngama -R6. Ngizokusala ngemali
engangani?



Yenze kobana inciphe ngama -R2.

RII		$R4$	
$RI2$		$R6$	
RIO		$R8$	



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Gwala imali yesimbi/ emumuwa ukwenza:

RI1	
RI2	
RI3	
RI4	



Thika bewutlole
ipendulo
ekungiyo.

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



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



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



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



Balisisa okulandelako:

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

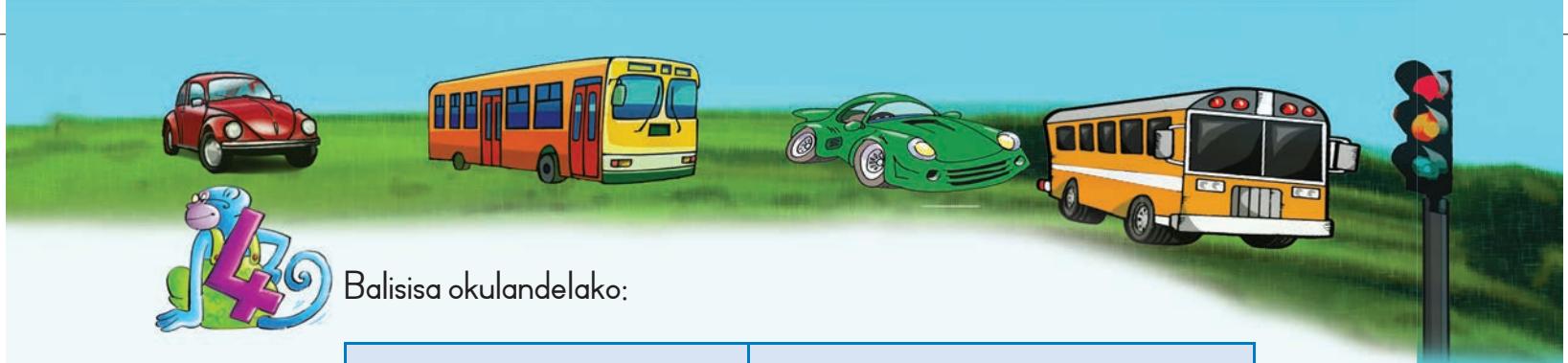
$$R2O - R2 - R8 = \boxed{}$$

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

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

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

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



Balisisa okulandelako:

Nginemali ema -I5. Ngithenga ngemali:	Ngisele ngamalini?
R2 begodu R4 =	R9
R8 begodu R4 =	
R12 begodu R2 =	
R5 begodu R5 =	
R8 begodu R7 =	
R10 begodu R2 =	
R8 begodu R2 =	
R6 begodu R2 =	
R4 begodu R2 =	
R2 begodu R2 =	
R9 begodu R6 =	
R10 begodu R2 =	



Nginemali ema -R15. Ngithenga iphakethe yamaswidi nge -RII.
Gwala utjengise kobana usele ngemali engangani.



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Imali: Ukuhlanganisa nokukhupha

Ithemu 3



Balisia okulandelako:

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

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

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

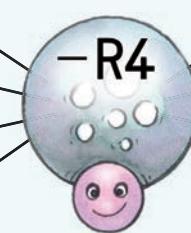


Siza isiswebu
ukuqedelela iimbalo.



Nciphisa ngemali ema-R2.

$RI6$
$RI4$
RIO
$RI2$





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



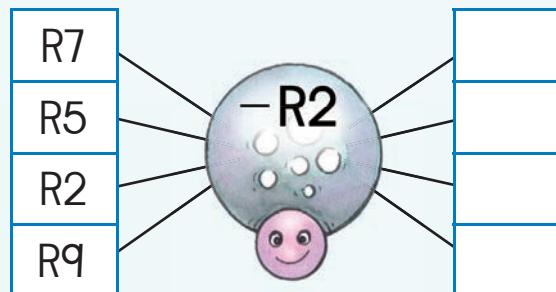
$R7 - R2 =$	
-------------	--





5

Siza isiswebu ukutlola zoke iimbalo zokukhupha.



6

Rarulula okulandelako.

Bewunemali ema-R12. Umma wakupha enye ema-R12. Kwanje sewunamalini?

Bewunemali ema-R19. Uthenge amaswidi ngama-R8. Usele ngamalini?

7

Ngibulunge imali engangani?



8

Tjengisa isibalo kunambalayini bese ubalisisa ipendulo.



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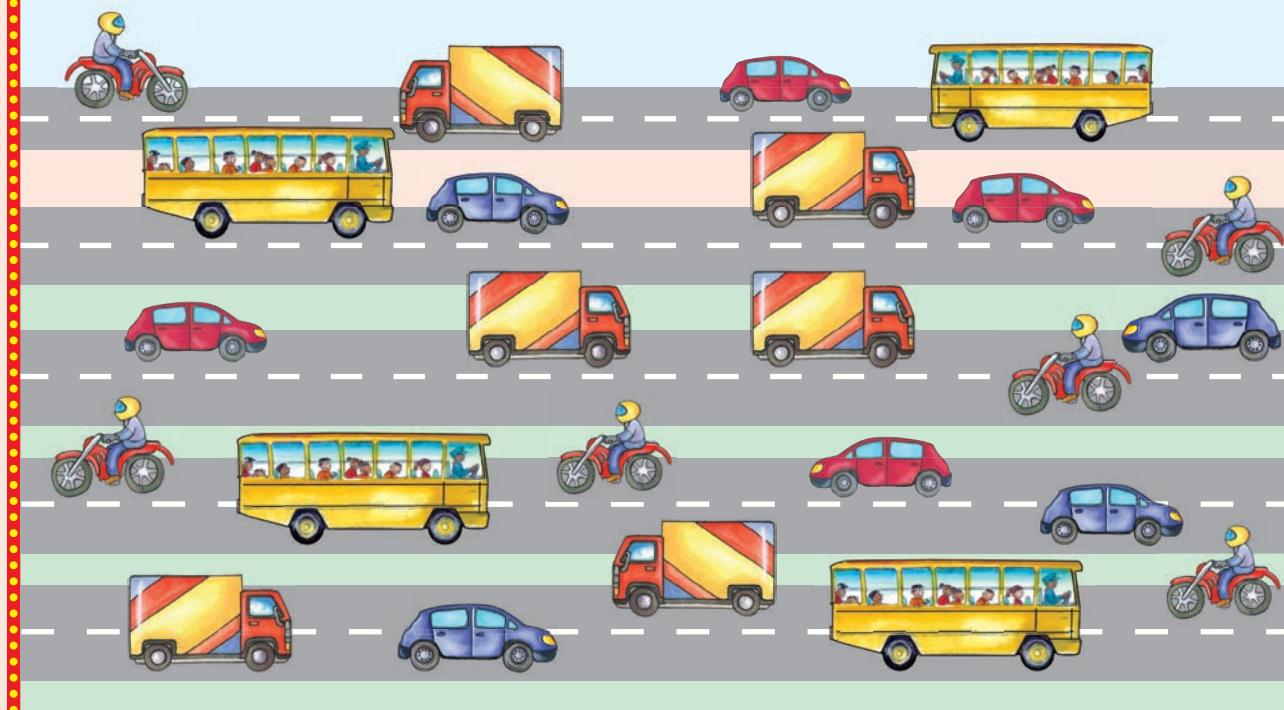


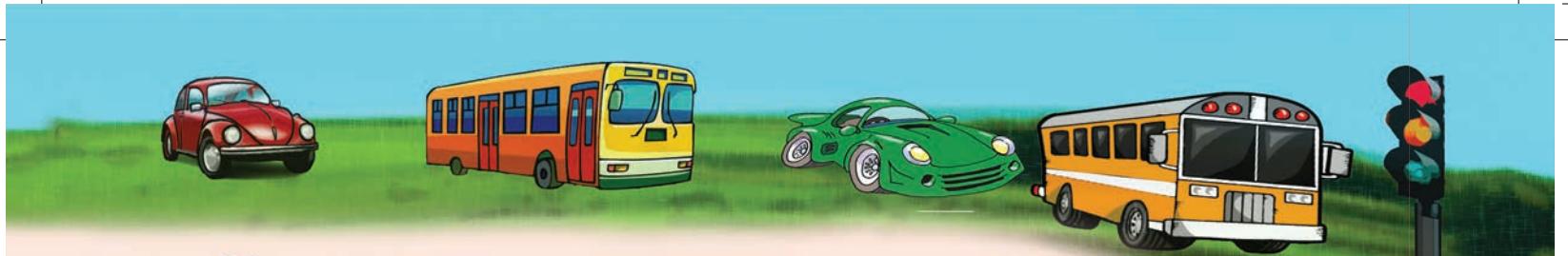
Bala kobana ubona imihlobo emingaki yeenkoloyi.

Ithemu 3

Idatha

Ilanga:





Bala amajamo bese ukhalara itjhadi elingenzasi ukutjengisa kobana umhlobo ngamunye unenani elingangani.
Ngemva kwalapho uphendule imibuzo.



5						
4						
3						
2						
1						
	▲	●	■	◆	★	○

Ubunengi bakhona _____.

Ubuncani bakhona _____.

Teacher:
Sign:
Date:



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Ithemu 3

Ilanga nesikhathi

Cocisanani ngeenthombe bese nizibeka ngendlela ezilamana ngayo.

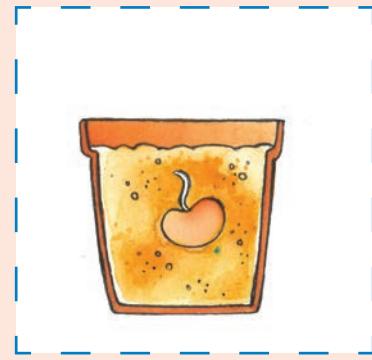
Ilanga:



1



2



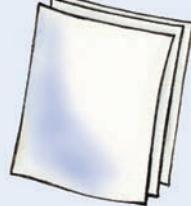
3



4



Sebenzisa amakarada wokuhlela akubo Sika boku - I
ukuqedelela igrafu yeenthombe.



--	--	--	--



Teacher:
Sign:
Date:



80



Amabuthelelo wangakuhanu bekufike e - 15

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

5

kuhanu



Qalisisa isithombe bese uphendula umbuzo.

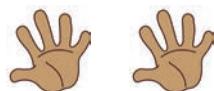


Qalisisa isithombe.

Isibalo lesi singatlolwa ngale indlela: Gwala ipendulo yakho lapha.

Ungenza amabuthelelo
wangaku-5 amangaki?Ibuthelelo elilodwa
langaku-5 lenza oku-5

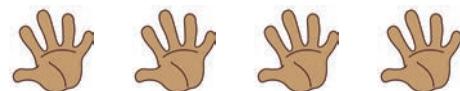
Bala imino bese utlola ipendulo.



$5 + 5 =$



$5 + 5 + 5 =$



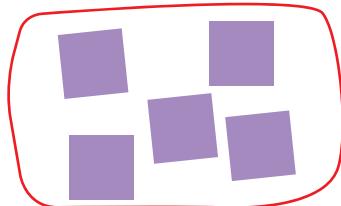
$5 + 5 + 5 + 5 =$

Amabuthelelo amabili
wangakuhanu enza i-10

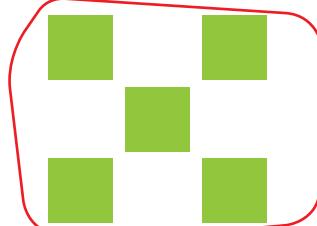


Gwala iijingi undulungele
okulandelako ukwenza:

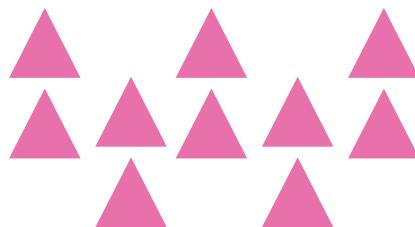
Ibuthelelo elilodwa langaku-5 lenza
oku-5



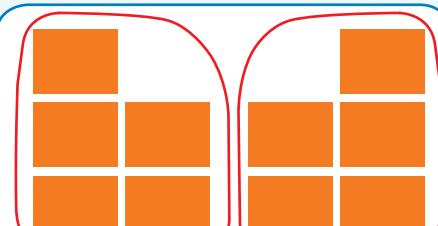
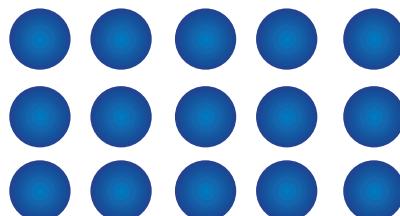
Tlola imitjho yeenomboro
yalokhu okulandelako:



Amabuthelelo ama-2 wangaku-5



Amabuthelelo ama-3 wangaku-5



Ungabeka amabuthelelo wangakuhanu amangaki ngalokhu?

10	begodu	0		amabuthelelo
8	begodu	2		amabuthelelo
6	begodu	4		amabuthelelo
4	begodu	1		amabuthelelo
2	begodu	3		amabuthelelo



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Ithemu 3

Ngakuhlanu: ukuhlanganisa okubuyeletweko bekufike e-15

Ukubuyekeza:

Ukubuyekeza: Qedelela ngeenomboro ezitlhayelako.



Mazwani amangaki nanyana mimino emingaki? Tlola umutjho weenomboro.



Ibuthelelo lamabhanana amahlanu

Gwala:

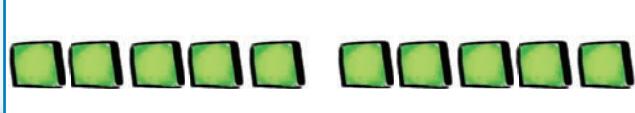


Gwala amajamo wokulandelako.

Amabuthelelo amabili wamabhanana
ibuthelelo ngalinye

$$5 + 5 = 10$$

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

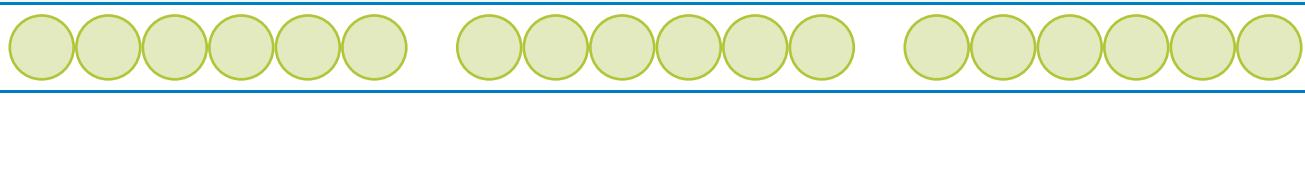




Ndulungela bewubale kobana ungabeka amabuthelelo wangakuhlanu amangaki kelinye elinye ikarada.



Tlola umutjho weenomboro walokhu:



Sebenzisa imibala eyahlukeneko ukutjengisa iinomboro ozoyisebenzisa ukubeka amabuthelelo wangakuhlanu.

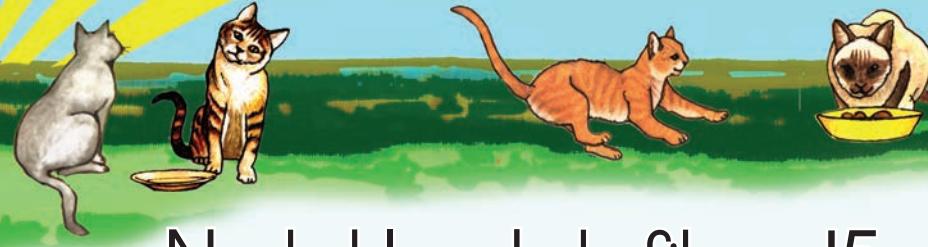
I	2	3	4	5	6	7	8	q	10
II	I2	I3	I4	I5					



Ungabeka amabuthelelo wangakuhlanu amangaki?

I	begodu	I4	kwenza		amabuthelelo
I3	begodu	2	kwenza		amabuthelelo
8	begodu	2	kwenza		amabuthelelo
7	begodu	8	kwenza		amabuthelelo
q	begodu	2	kwenza		amabuthelelo



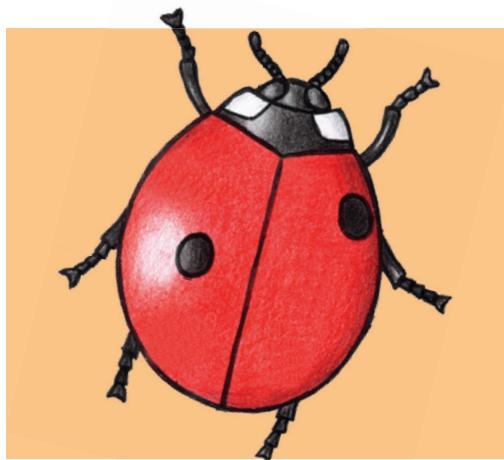


Tlola iinomboro ezitlhayelako.

I		3		5		7	8	9	
II	I2								

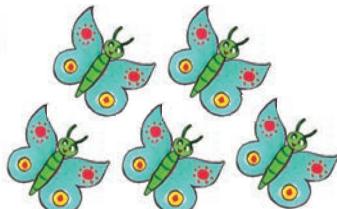
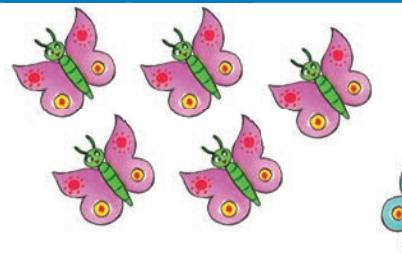
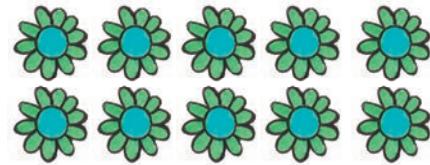


Beka amabuthelelo wangakuhlanu. Unomabhonjwana ngamunye umele abe namacaphazi amahlanu ephikweni ngalinye.
Gwala amacaphazi atlhayelako.





Tlola umutjho weenomboro walokhu okulandelako.



Balisisa okulandelako:

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

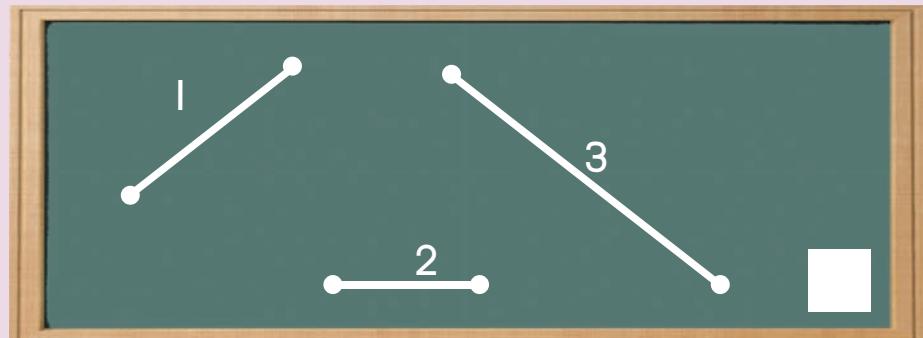
$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{\quad}$$

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

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

Ukubuyekeza:

Ukubuyekeza: Ngiwuphi umuda omude?



Teacher:
Sign:
Date:



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Ilanga:

Amaphetheni weenomboro zangakuhlanu bekufike ema -50

Ithemu 3

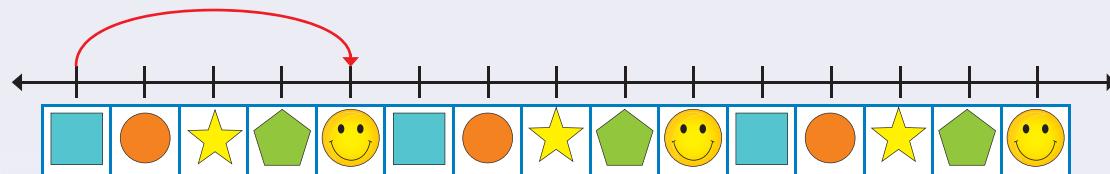


Qedeleta iphetheni yangakuhlanu ngokukhalara phezu kweenomboro.

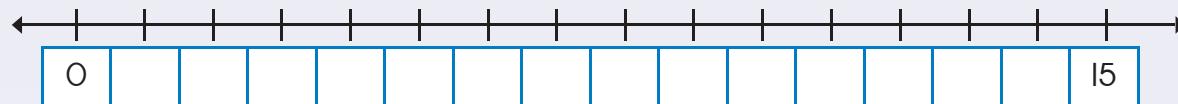
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Gwala amawulawubhu ukutjengisa amabuthelelo wangakuhlanu.

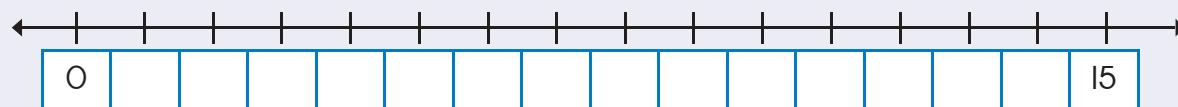


Qedeleta ngeenomboro ezitlhayelako bese ugwala amawulawubhu ukutjengisa amabuthelelo wangakuhlanu.



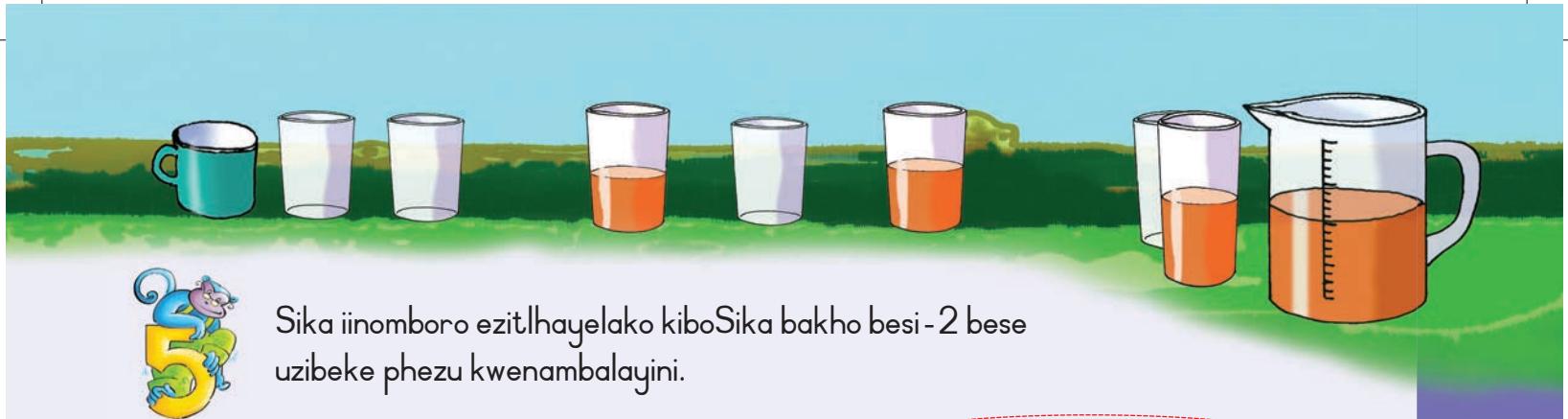
Qedeleta inambalayini. Gwala amawulawubhu ukutjengisa amabuthelelo wangakuhlanu.

Kunamabuthelelo wangakuhlanu.

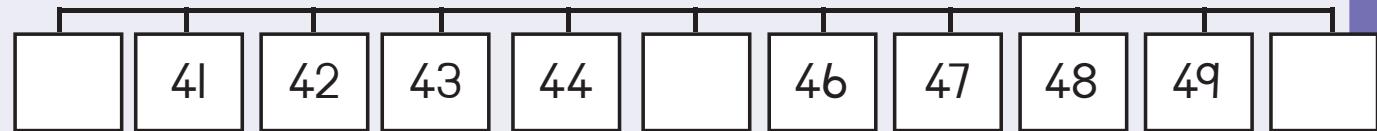
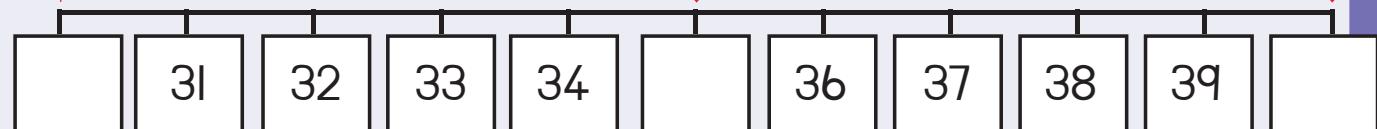


38

0 1 2 3 4 5 6 7 8 9 10

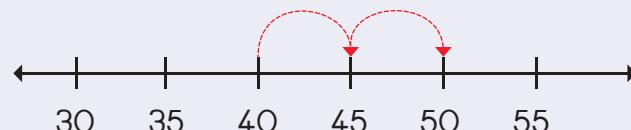


Sika iinomboro ezitlhayelako kibo
Sika bakho besi - 2 bese
uzibeke phezu kwenambalayini.

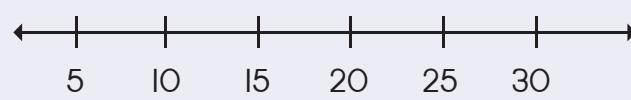


Gwala amawulawubhu ukutjengisa okulandelako:

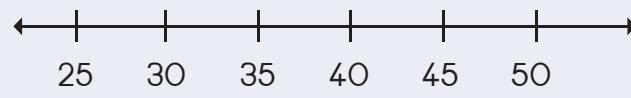
40, 45, 50



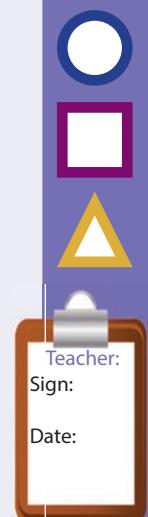
10, 15, 20



25, 30, 35



11 12 13 14 15 16 17 18 19 20



84



Ilanga:

Amaphetheni weenomboro

Ithemu 3



Esithombeni, ubona amabuthelelo wangakuhanu amangaki?



Qedelela iinthombe ezilandelako ukutjengisa amabuthelelo amabili
wangakuhanu ebhlogweni ngalinye.



40

0

1

2

3

4

5

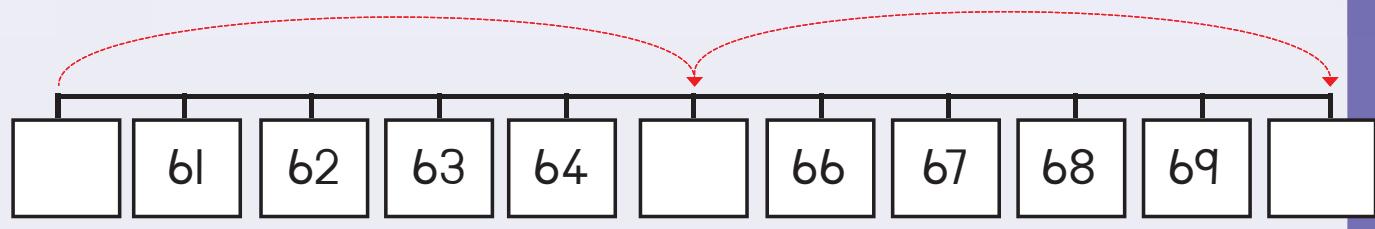
6

7

8

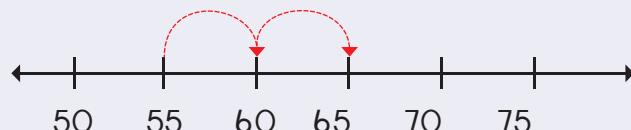
9

10



Gwala amawulawubhu ukutjengisa okulandelako:

55, 60, 65



65, 70, 75



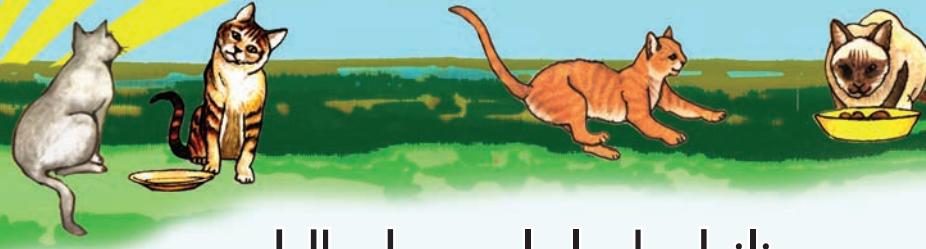
70, 75, 80



11 12 13 14 15 16 17 18 19 20



85



Ithemu 3

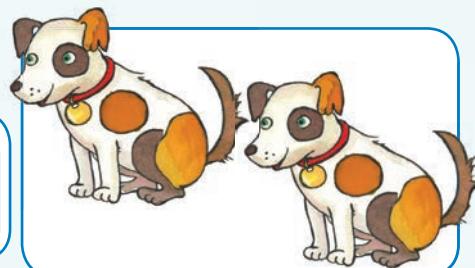
Ukubuyeleta kibili



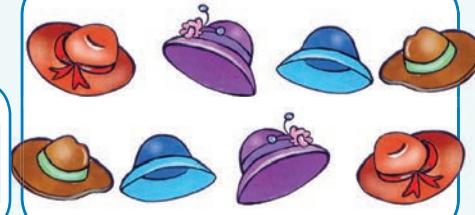
Buyelela kibili izinto bese utlola ipendulo.



u-1 nakabuyeletwe
kibili, ipendulo



u-4 nakabuyeletwe
kibili, ipendulo

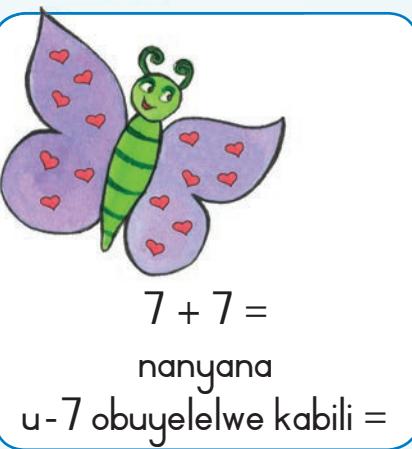


u-5 nakabuyeletwe
kibili, ipendulo

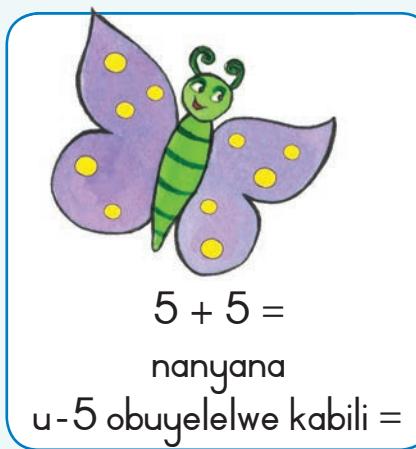


Bala amajamo wephiko leviyaviyani ngalinye.

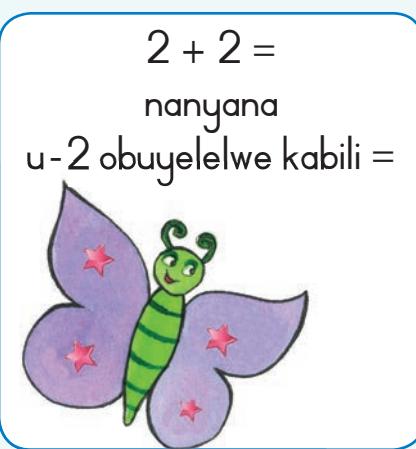
Qedeleta inomboro ebuyeletwe kibili emutjhweni weenomboro.



$7 + 7 =$
nanyana
u-7 obuyeletwe kibili =



$5 + 5 =$
nanyana
u-5 obuyeletwe kibili =



$2 + 2 =$
nanyana
u-2 obuyeletwe kibili =



42

0

1

2

3

4

5

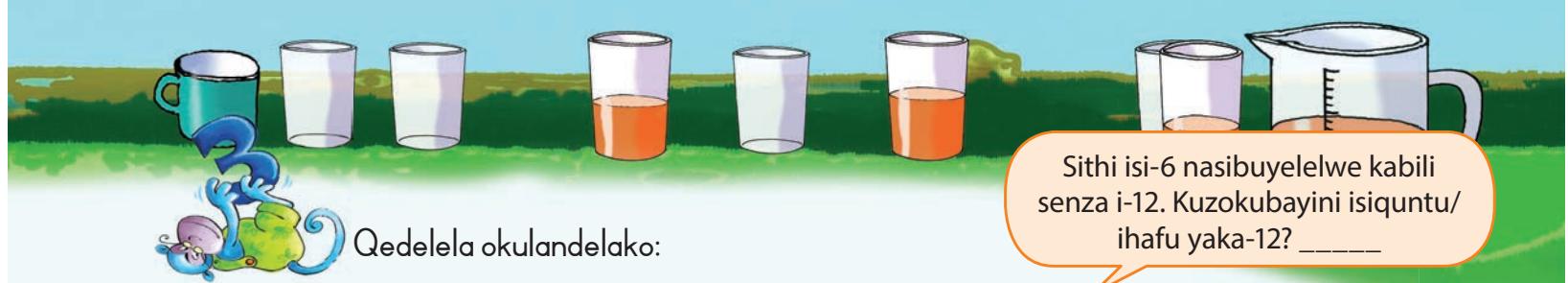
6

7

8

9

10



Sithi isi-6 nasibuyeletelewe kibili senza i-12. Kuzokubayini isiquntu/ihafu yaka-12? _____

Ubona amavili amangaki?	Kwanje ubona amavili amangaki?	Kunamaqanda amangaki ekhathunini?	Kwanje sekunamaqanda amangaki?



Bala amacaphazi bese uwabuyeleta kibili.



	1	ukubuyeleta kibili →		2
	2	ukubuyeleta kibili →		
	3	ukubuyeleta kibili →		
	4	ukubuyeleta kibili →		
	5	ukubuyeleta kibili →		



Qedelela okulandelako:

Iveke inamalanga amangaki?						
Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Timveke ezimbili zinamalanga amangaki?

Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb	Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Sithi i-7 nalibuyeletelewe kibili lenza i-14.

Kuzokubayini isiquntu/ihafu ye-14?

Ubona iinyawo ezingaki?



Kwanje ubona iinyawo ezingaki?



Sithi oku-2 nakubuyeletelewe kibili kwenza oku-4.

Kuzokubayini isiquntu/ihafu yaka-4?



Qedelela okulandelako:

$2 + 2 + 1 =$	5	nanyana	Ukubuyeleta kibili $2 + 1 = 5$
$4 + 4 + 1 =$		nanyana	
$7 + 7 + 1 =$		nanyana	



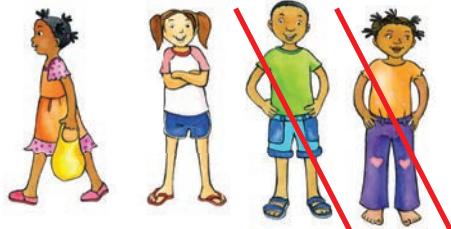
86



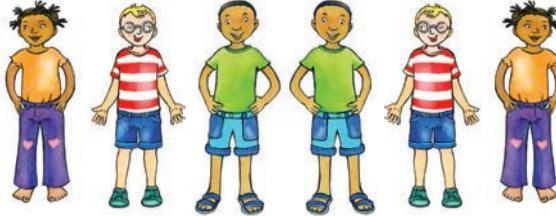
Ithemu 3



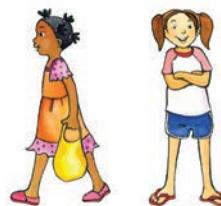
Tlola isiphambano phezu kwehafu yabantwana bese utlola ipendulo.



Ihafu yaka-4 _____



Ihafu yaka-6 _____



Ihafu yaka-2 _____



Ihafu yaka-8 _____



Tlola isiphambano phezu kwehafu bese utlola ipendulo.

Ihafu yaka-2 =

Ihafu yaka-8 =

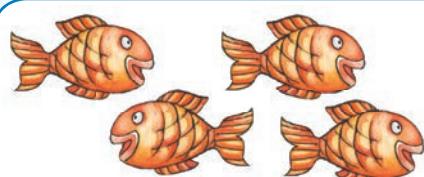
Ihafu yaka-4 =

Ihafu yaka-10 =

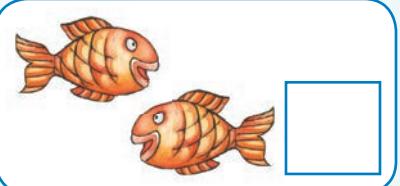
Ihafu yaka-6 =



Kuneenhlambi
ezingaki?



Ihafu
yeenhlambi
ilingana?



44

0

1

2

3

4

5

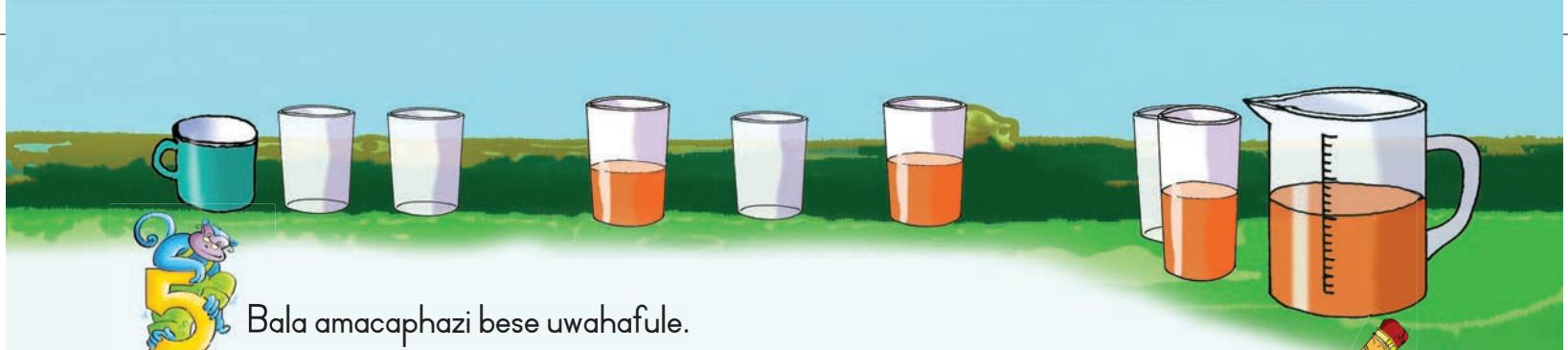
6

7

8

9

10



5

Bala amacaphazi bese uwahafulé.

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



Hafula iinomboro.

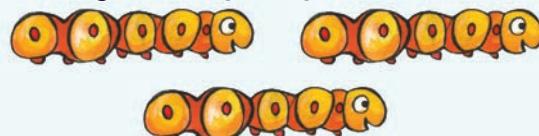
4	ihafu →	
8	ihafu →	
6	ihafu →	
10	ihafu →	
12	ihafu →	
14	ihafu →	

7

Kuneembungu ezingaki?



Ihafu yeembungu ilingana na -:



Phendula okulandelako:

Kuneenyawo ezingaki?



Kwanje kuneenyawo ezingaki?



Sithi ihafu yaka-8 ilingana

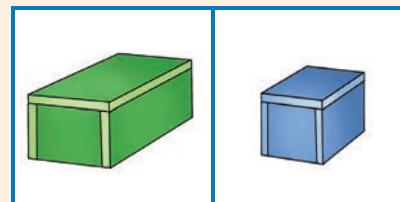
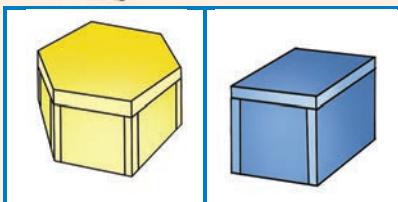


Teacher:
Sign:
Date:

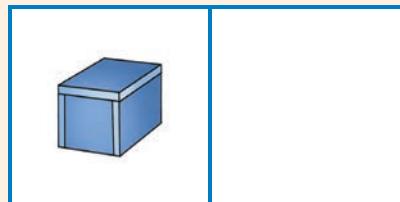




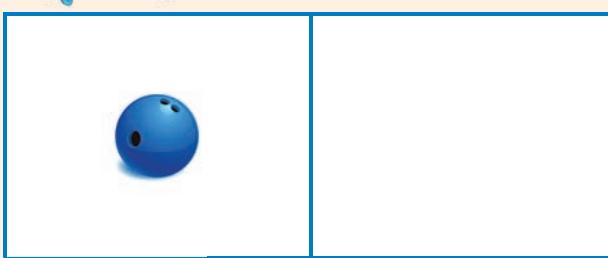
Thika into encani khulu.



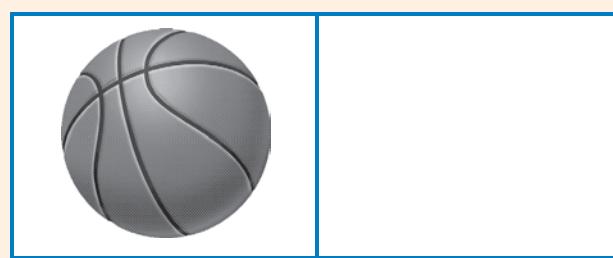
Gwala into ekulu ngesandleni sokudla sesithombe esinye nesinye.



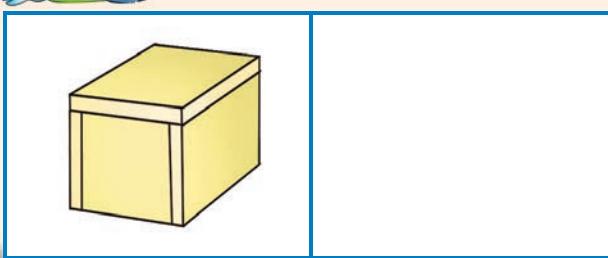
Gwala ibholo ekulu khulu bese ulandelise ngebholo ehlaza sasibhakabhaka.



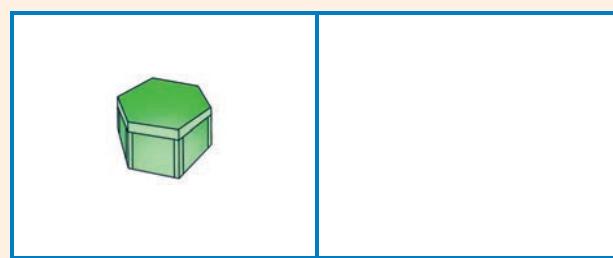
Gwala ibholo encani kubeyibholo esamlotha.

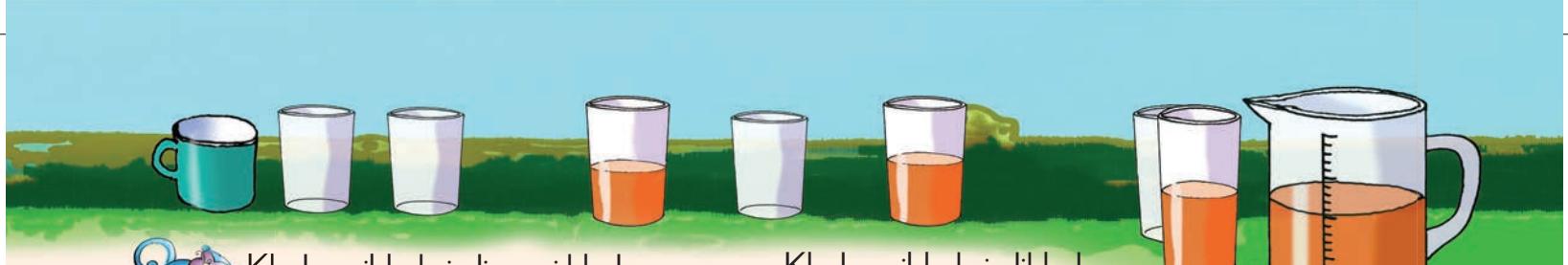


Gwala ibhoksi elincani kunebhoksi elisarulani.



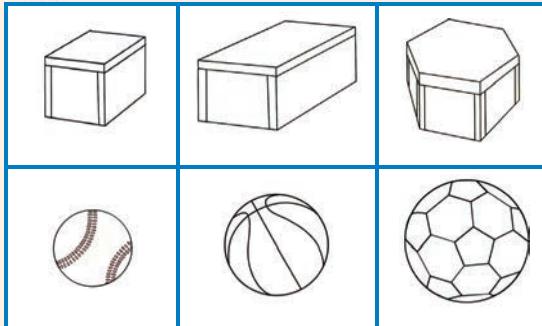
Gwala ibhoksi elikhulu kunebhoksi elihlaza satjani.



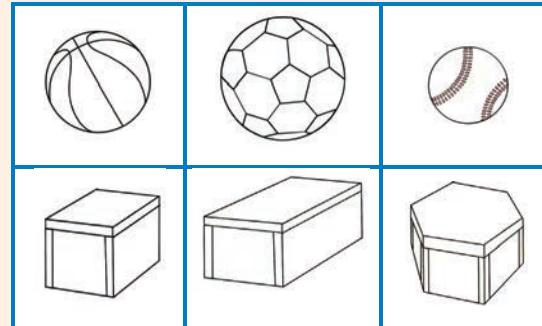


5

Khalara ibhoksi elincani khulu
ngombala ohlaza sasibhakabhaka bese
elincani khulu ngombala osarulani.



Khalara ibhoksi elikhulu
khulu ngombala opinki bese ibholo
ekulu khulu ngombala obovu.



Ungawakha
umbhotjhongo
ngezinto ezilandelako?
Khalara u-Iye
nanyana u-Awa.



3

Sika iinthombe kibomegazini nanyana
emaphephandaben bese uzinamathisele uzenzele
yakho imibhotjhongo emibili.

Khumbula:
Imibhotjhongo kumele
ibhalanse.



88



Ilanga:

Ithemu 3



Ingabe izinto ezilandelako zizokugedeka nanyana zizokutjhelela?
Khalara ipendulo ekungiyo.



ukugedeka ukutjhelela



ukugedeka ukutjhelela



ukugedeka ukutjhelela

ukugedeka ukutjhelela



Ingabe okulandelako kungenzeka?
Khalara ipendulo enembako.



iye awa



iye awa



iye awa



Hlela izinto ezilandelako ngokuthi uzigwale ngaphakathi kwebhlogo elinembako.

	Imbholo	Amabhoksi
--	---------	-----------



Hlela izinto ezilandelako ukuya ngobukhulu bazo bewuzigwale.

	Imbholo ezincani	Amabhoksi amancani
	Imbholo ezikulu	Amabhoksi amakhulu



8q



Ilanga:

Amaphetheni wejiyomethri

Ukubuyekeza:

Gwala okulandelako:

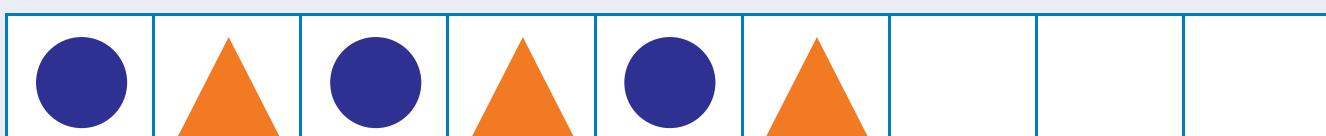
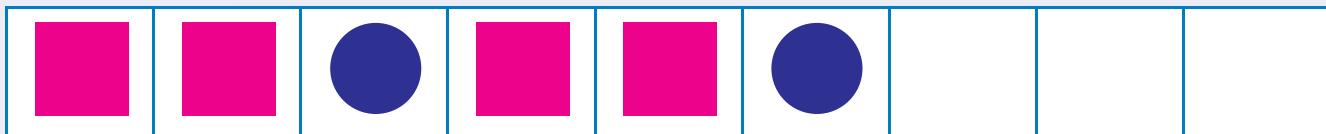
Isiyangi

Isikwere

Uncane/irekthengela



Qedelela amaphetheni.



50

0

1

2

3

4

5

6

7

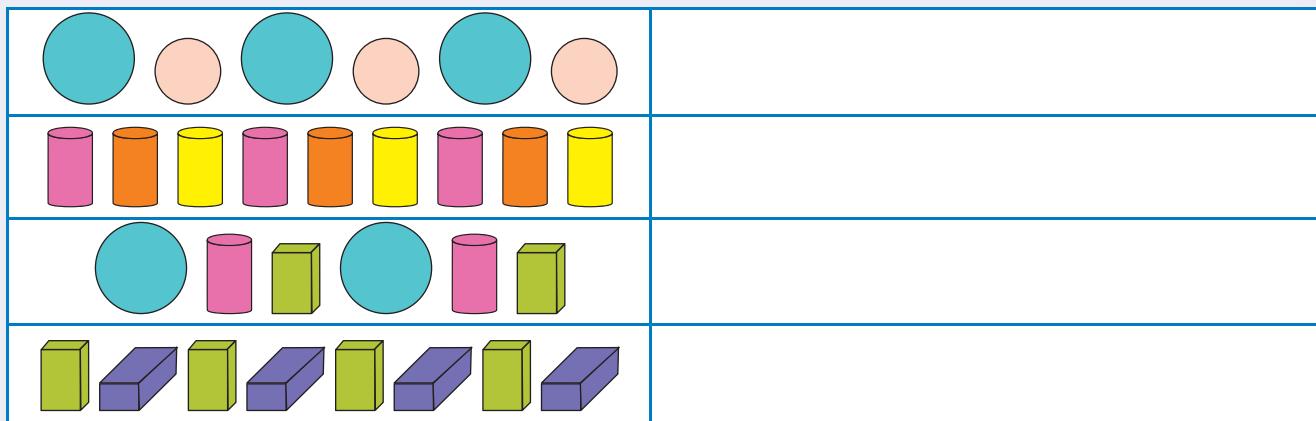
8

9

10



Yenza umgwalo uqedelele iphetheni.



Gwala amaphetheni ekungewakho.



Namathisela iinthombe ukwenza iphetheni ekungeyakho.

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



Qedelela iphetheni elandelako:

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



Teacher:
Sign:
Date:



90



Ithemu 3



Tlola ibizo lenomboro ejanyelwe litshwayo.

2

kubili



Phendula imibuzo.



Ubona amaphengwini amangaki?

Ubona iiimpara zeenyawo ezingaki?

Tlola ipendulo yakho njengenomboro.



Phendula imibuzo.

Ubona iincwadi ezingaki?



Ungenza amabuthelelo wangakubili amangaki?

Tlola ipendulo njengomutjho weenomboro.



Tlola ibizo lenomboro ejanyelwe litshwayo.

4



Bala iimpiko, bese uqedelela ngependulo.



$$2 + 2 =$$



$$2 + 2 + 2 =$$



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



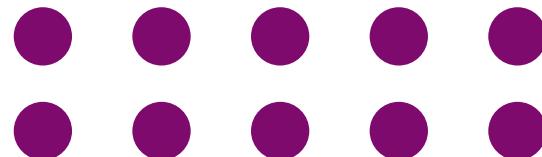


Gwala iiyangi undulungele okulandelako ukubeka:

Amabuthelelo ama - 4 wangaku - 2



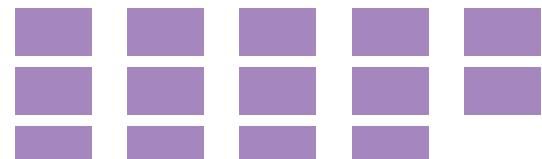
Amabuthelelo ama - 5 wangaku - 2



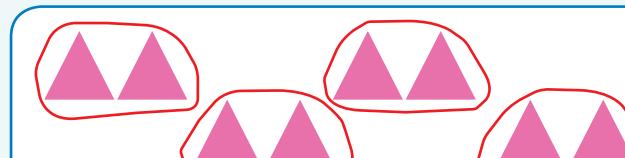
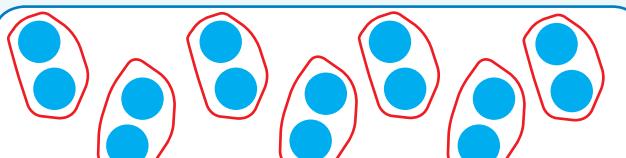
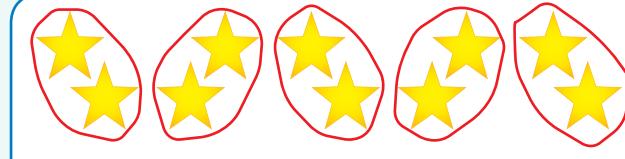
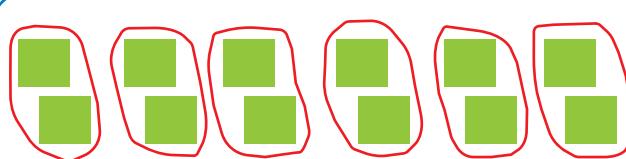
Amabuthelelo asi - 6 wangaku - 2



Amabuthelelo ali - 7 wangaku - 2



Tlola umutjho weenomboro walokhu okulandelako:



Ungabeka amabuthelelo wangakibili amangaki?

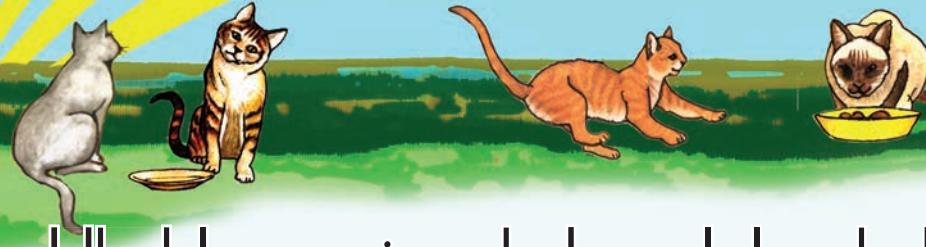
i-13 naku - I kuzokwenza	amabuthelelo
i-11 naku - I kuzokwenza	amabuthelelo
i-9 naku - I kuzokwenza	amabuthelelo
i-7 naku - I kuzokwenza	amabuthelelo

i-12 naku - I kuzokwenza	amabuthelelo
Oku - I naku - I kuzokwenza	amabuthelelo
Oku - I noku - I kuzokwenza	amabuthelelo
i-10 ne - O kuzokwenza	amabuthelelo

Teacher:
Sign:
Date:



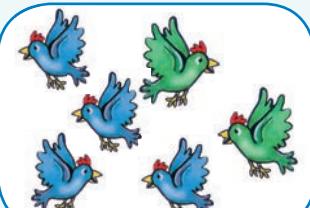
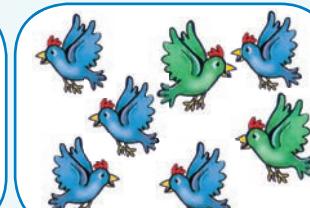
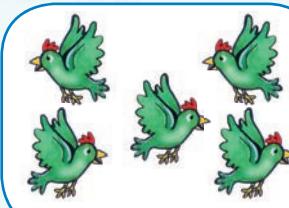
q1



Ukuhlanganisa okubuyelewe kabili bekufike e - 15



Ubona imilenze emingaki?



Ubale njani?



Gwala amajamo ukutjengisa okulandelako:

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

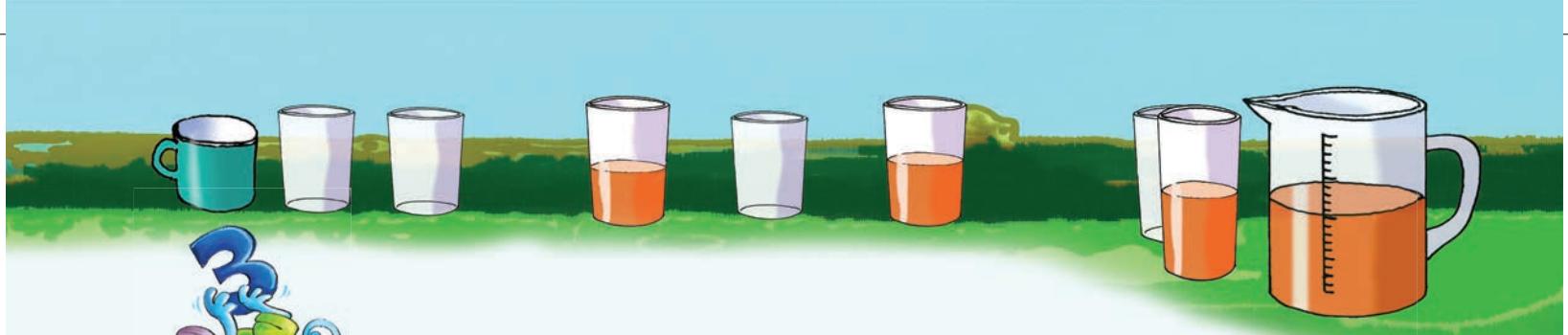


$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$

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

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





Tlola umutjho weenomboro walokhu okulandelako:

<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"/>									



Ndulungela bewubale kobana mabuthelelo amangaki wangakibili ongawabeka ekaradeni ngalinye.

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



Qedeleta iphetheni yeenomboro ukwenza amabuthelelo amabili wangakibili.

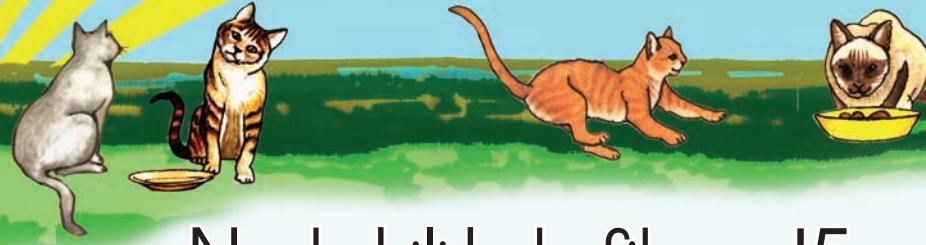
1	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5					

11 12 13 14 15 16 17 18 19 20

Teacher:
Sign:
Date:



q2



Ithemu 3



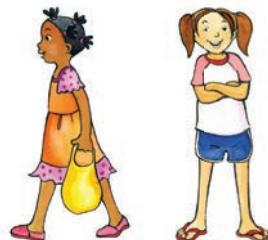
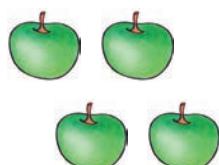
Tlola inomboro ethayelako.

- I 3 5 7 q
- II 13 15

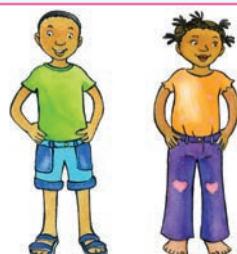
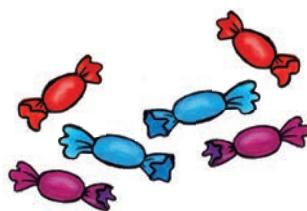


Beka amabuthelelo wangakubili.

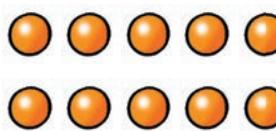
Ndulungela elinye nelinye ibuthelelo langakubili.



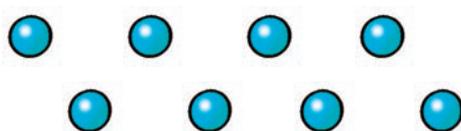
Kunamabuthelelo wama-apula
amangaki?
Umntwana ngamunye
uzokufunyana ama-apula
amangaki?



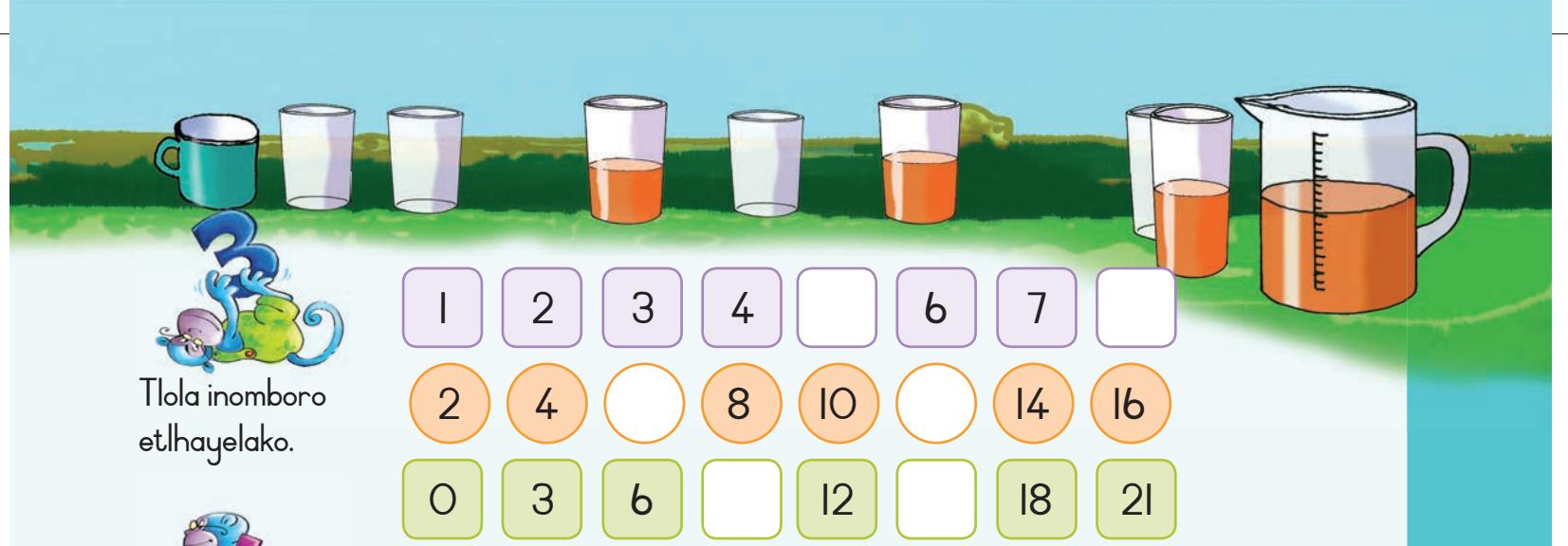
Kunamabuthelelo wamaswidi
amangaki?
Umntwana ngamunye
uzokufunyana amaswidi
amangaki?



Kunamabuthelelo
wamamabula amangaki?
Umntwana ngamunye
uzokufunyana
amamabula amangaki?



Kunamabuthelelo
wamamabula amangaki?
Umntwana ngamunye
uzokufunyana
amamabula amangaki?

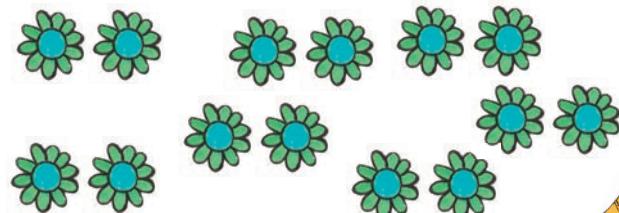


Tlola inomboro etlhayelako.

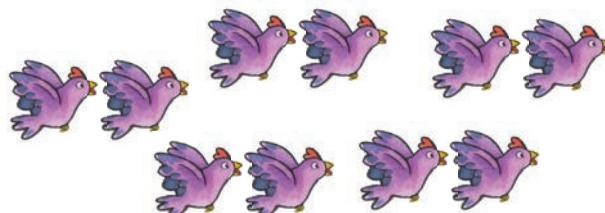
1	2	3	4		6	7	
2	4		8	10		14	16
0	3	6		12		18	21



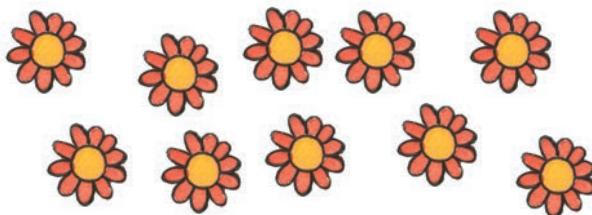
Tlola umutjho weenomboro usebenzise abo -2.



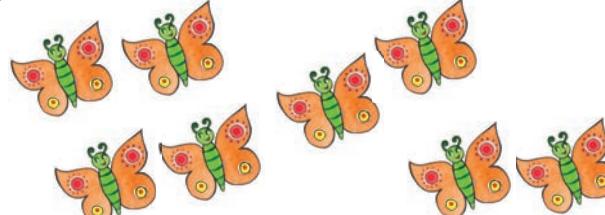
$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{14}$$



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--	--



Balisia okulandelako:

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



Ndulungela amabuthelelo wangaku -2 emuden ni ngamunye.



Teacher: _____
Sign: _____
Date: _____



q3



Ilanga:

Ithemu 3

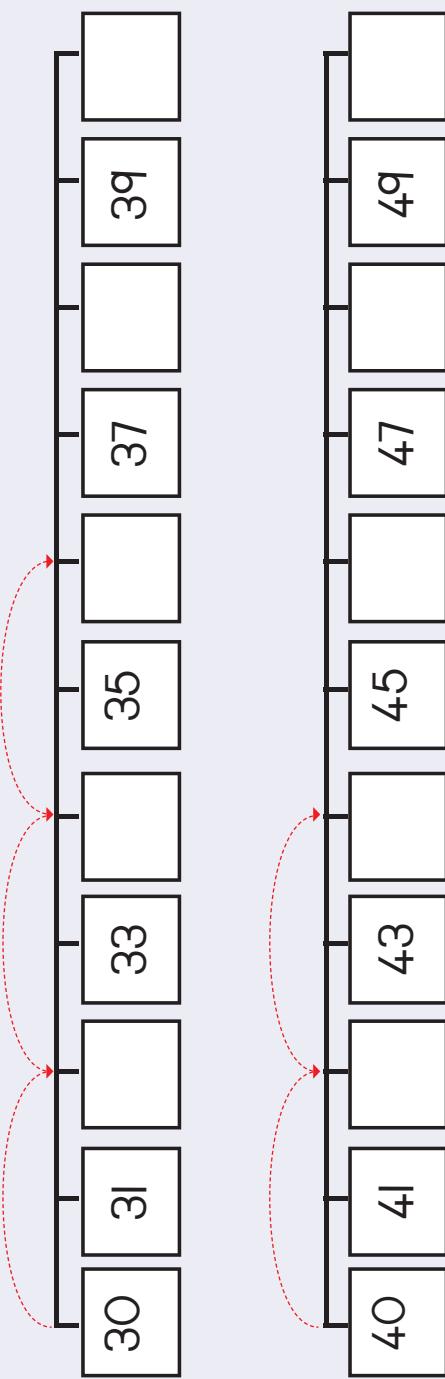
Amaphetheni wangaku - 2 ukufika ema - 50



Sika iinomboro ezitlhayelako kibo Sika besi - 2 bese uzinamathisela enambalayinini. Ngemva kwalapho uqedelele namawulawubhu.



Qedelela iphetheni ngokuthi ukhalare iinomboro ekungizo.



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



Gwala amawulawubhu ukutjengisa okulandelako:

30, 32, 34

28	30	32	34	36	38
----	----	----	----	----	----

40, 42, 44

38	40	42	44	46	48
----	----	----	----	----	----

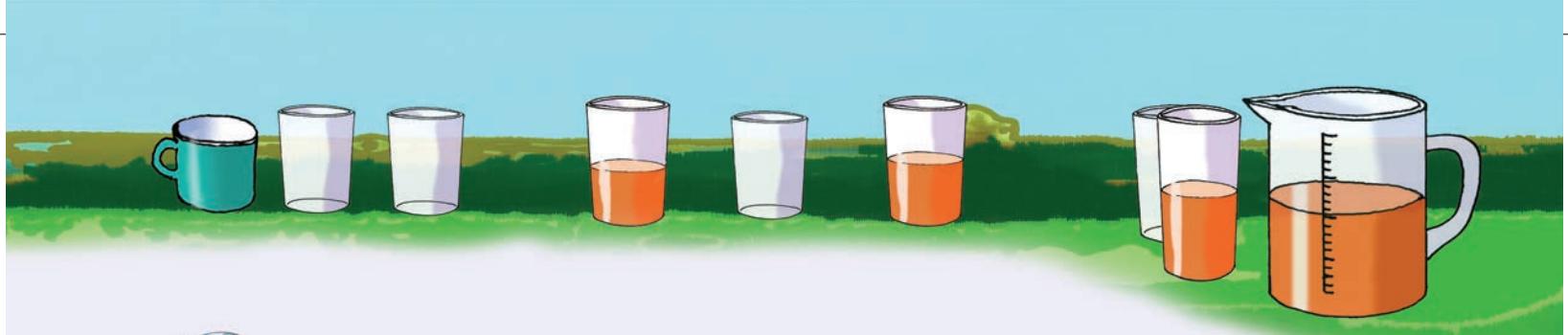
46, 48, 50

40	42	44	46	48	50
----	----	----	----	----	----



58

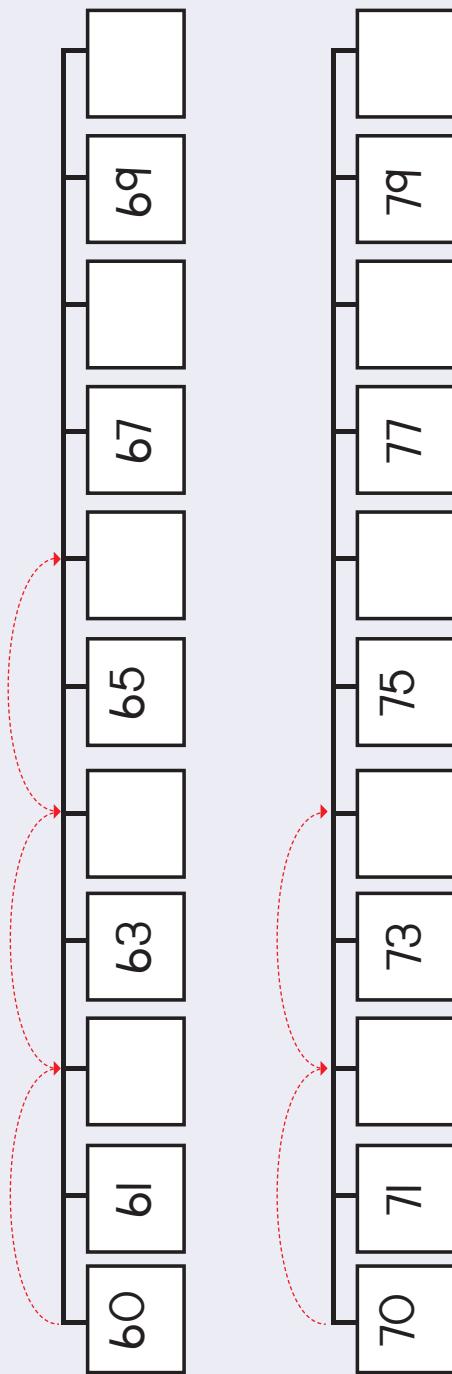




Sika iinomboro ezitlhayelako kibo Sika besi-2 bese uzinamathisela enambalayjinini. Ngemva kwalapho uqedelele namawulawubhu.



Qedeleta iphetheni ngokuthi ukhalare iinomboro ekungizo.

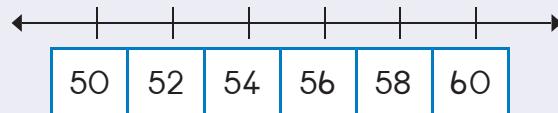


61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

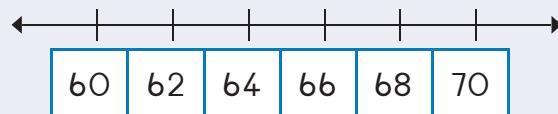


Gwala amawulawubhu ukutjengisa okulandelako:

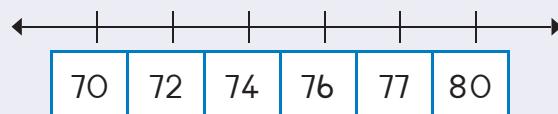
54, 56, 58



64, 66, 68



72, 74, 76



Teacher:
Sign:
Date:



q4

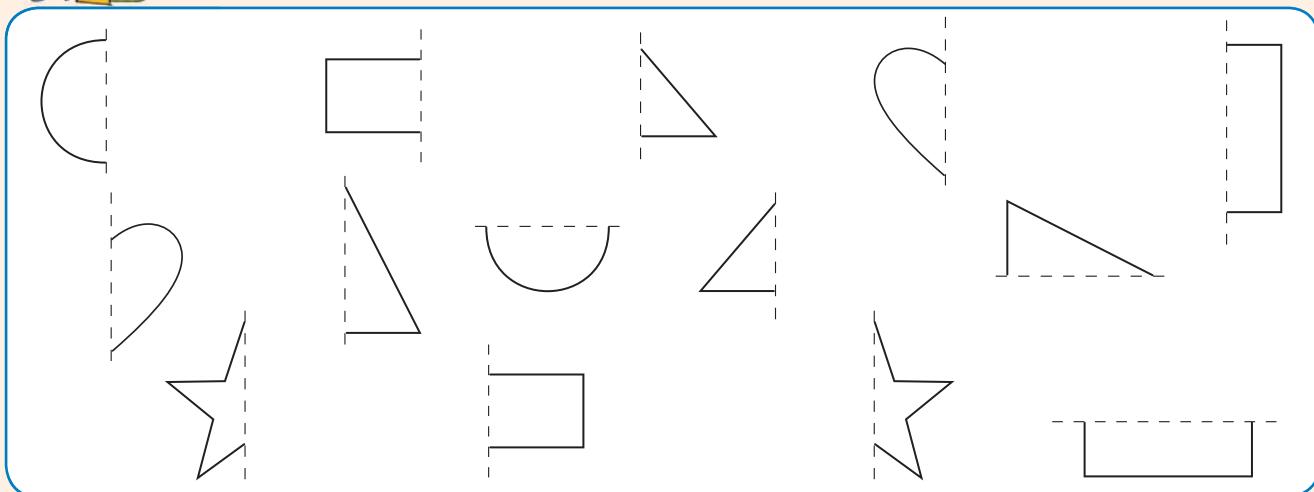


Ithemu 3

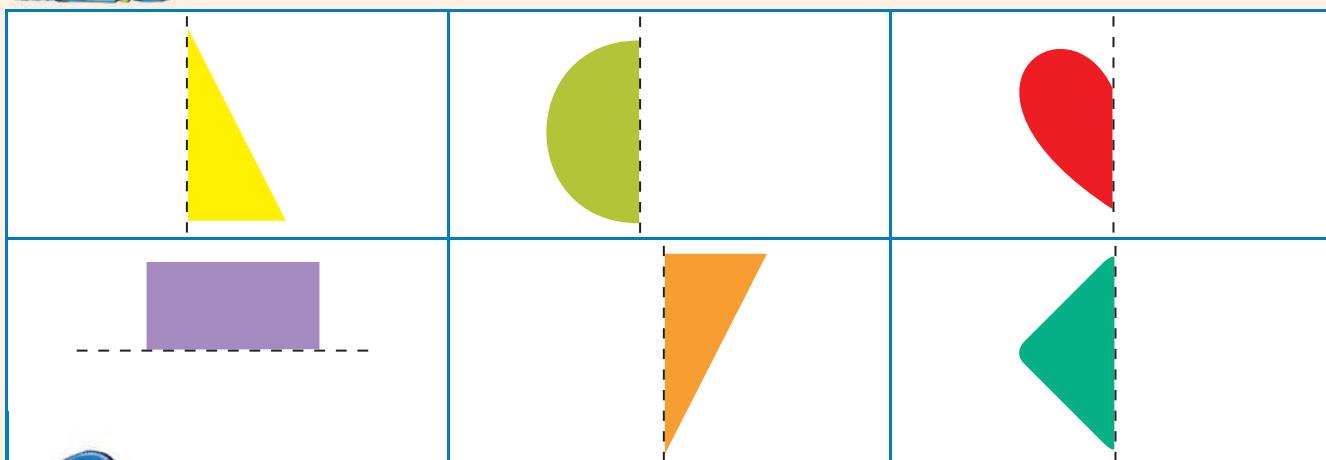


Ukubandeka - bulingana / Isimethri

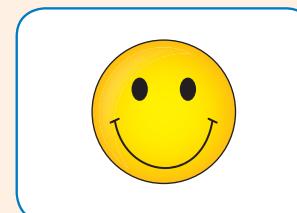
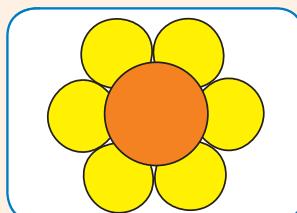
Khalara amahlangothi amabili alinganako wamajamo azokwenza ijamo elilodwa.



Gwala enye ihafu bese uayikhalara.



Gwala umuda ukwehlukanisa iinthombe ezilandelako zibe namahlangothi amabili azokubonakala afana patsi.



60

0

1

2

3

4

5

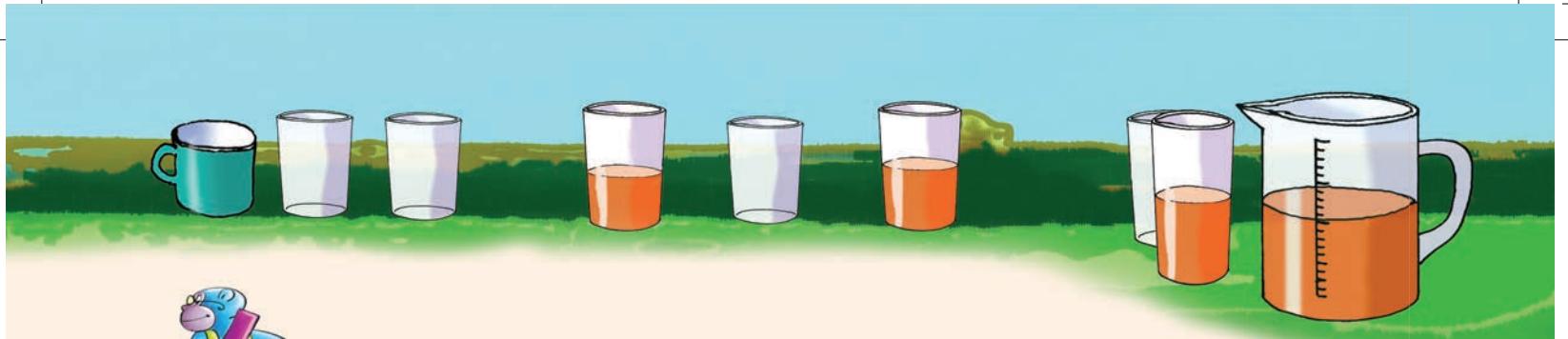
6

7

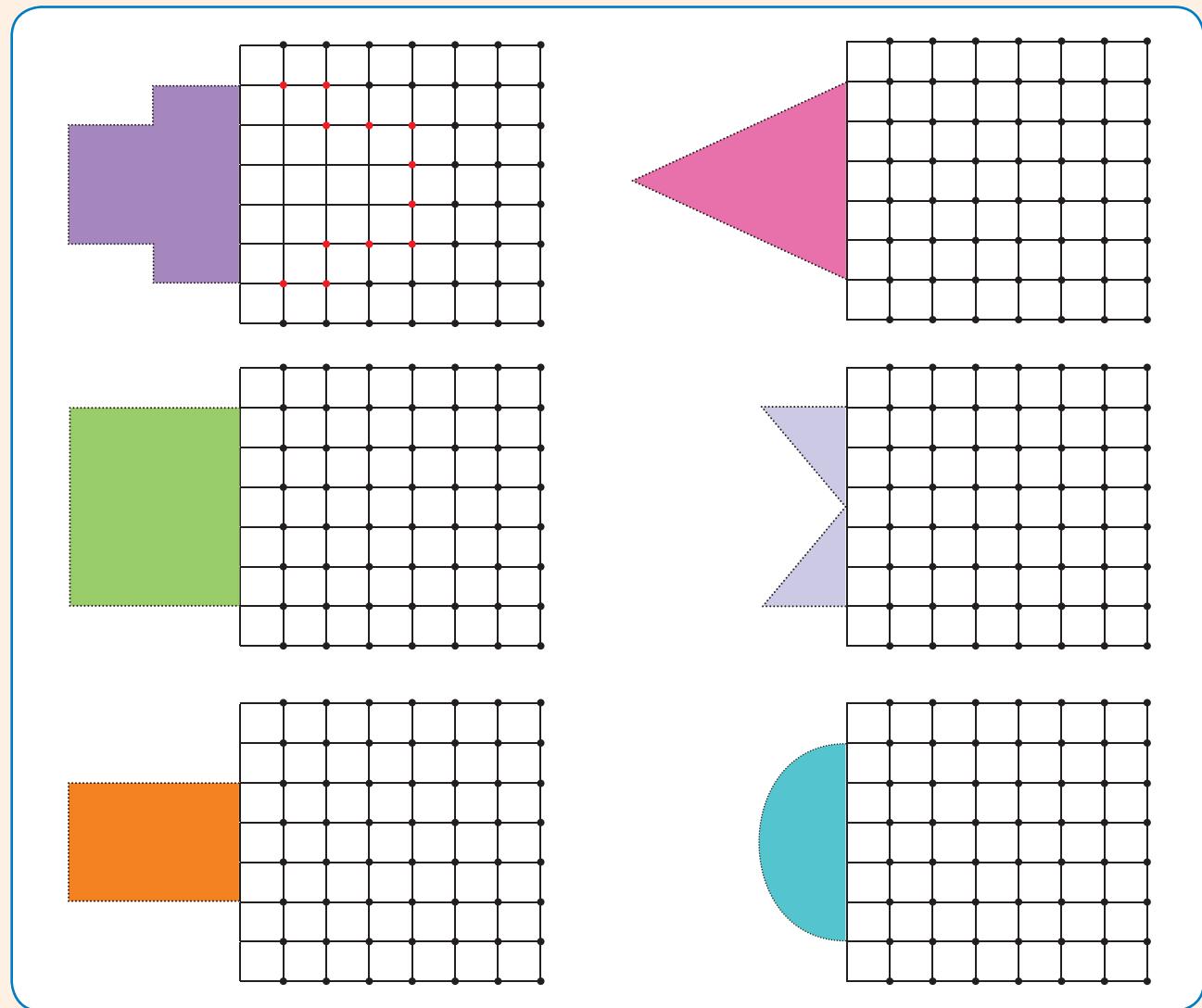
8

9

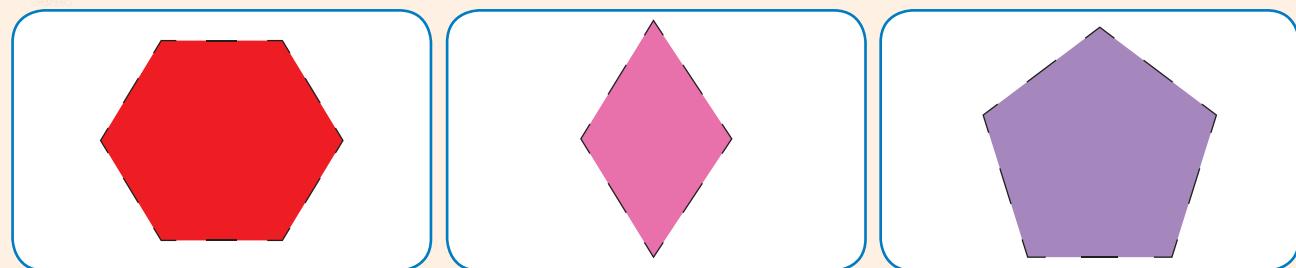
10



Gwala enye ihafu yejamo usebenzise ibhodo yegridi ukuze ikuhlahle.



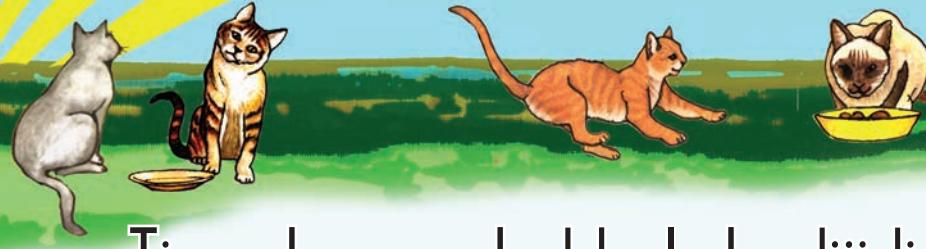
Gwala umuda ukwehlukanisa iinthombe ezilandelako zibe namahlangothi amabili azokubonakala afana patsi.



Teacher:
Sign:
Date:



95



Ithemu 3

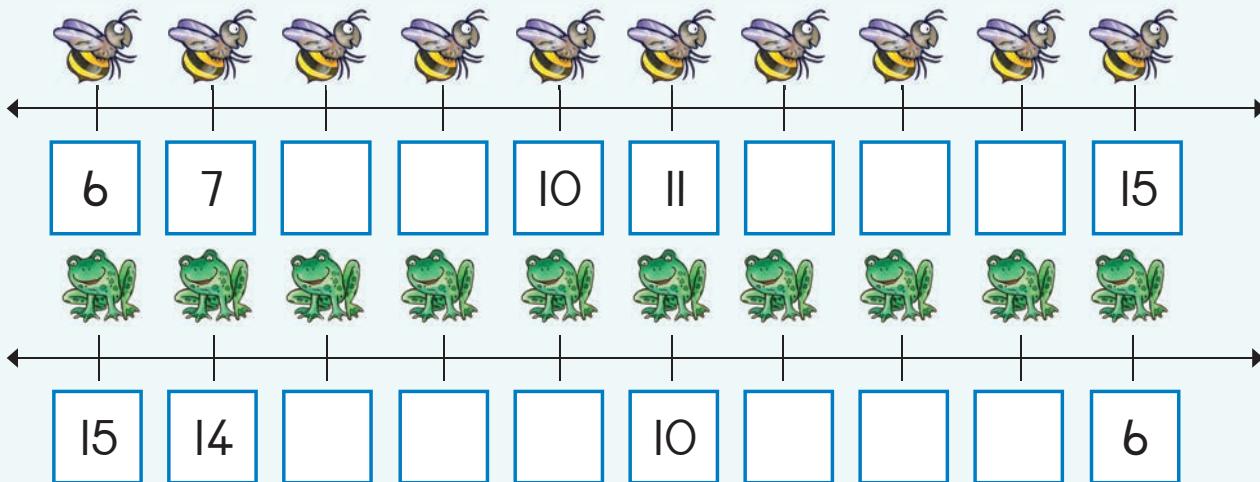


Ukutlola iinomboro ezitlhayelako.

10	II					15
q	10					



Ukutlola iinomboro ezitlhayelako.



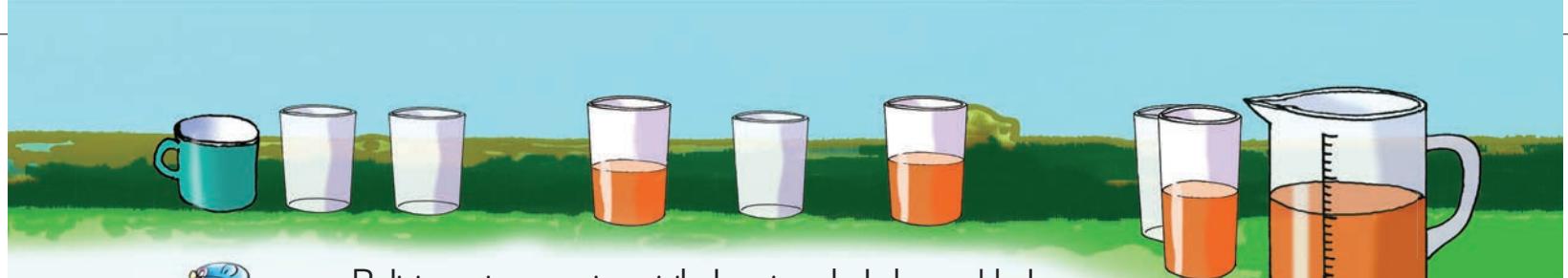
Tlola ipendulo.

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

$15 - 10 =$	
$14 - 10 =$	
$12 - 10 =$	
$11 - 10 =$	



62



Balisisa esinye nesinye isibalo esinombala bese ukhalara
isiqetjhana sephazela esinenomboro ekungiyo.
Sebenzisa umbala ofanako. Qalisisa isibalo sokuthoma owenzelwe
sona.



10 + 1 ngombala obovu



10 + 3 ngombala opinki



10 + 5 ngombala
ohlaza sasibhakabhaka



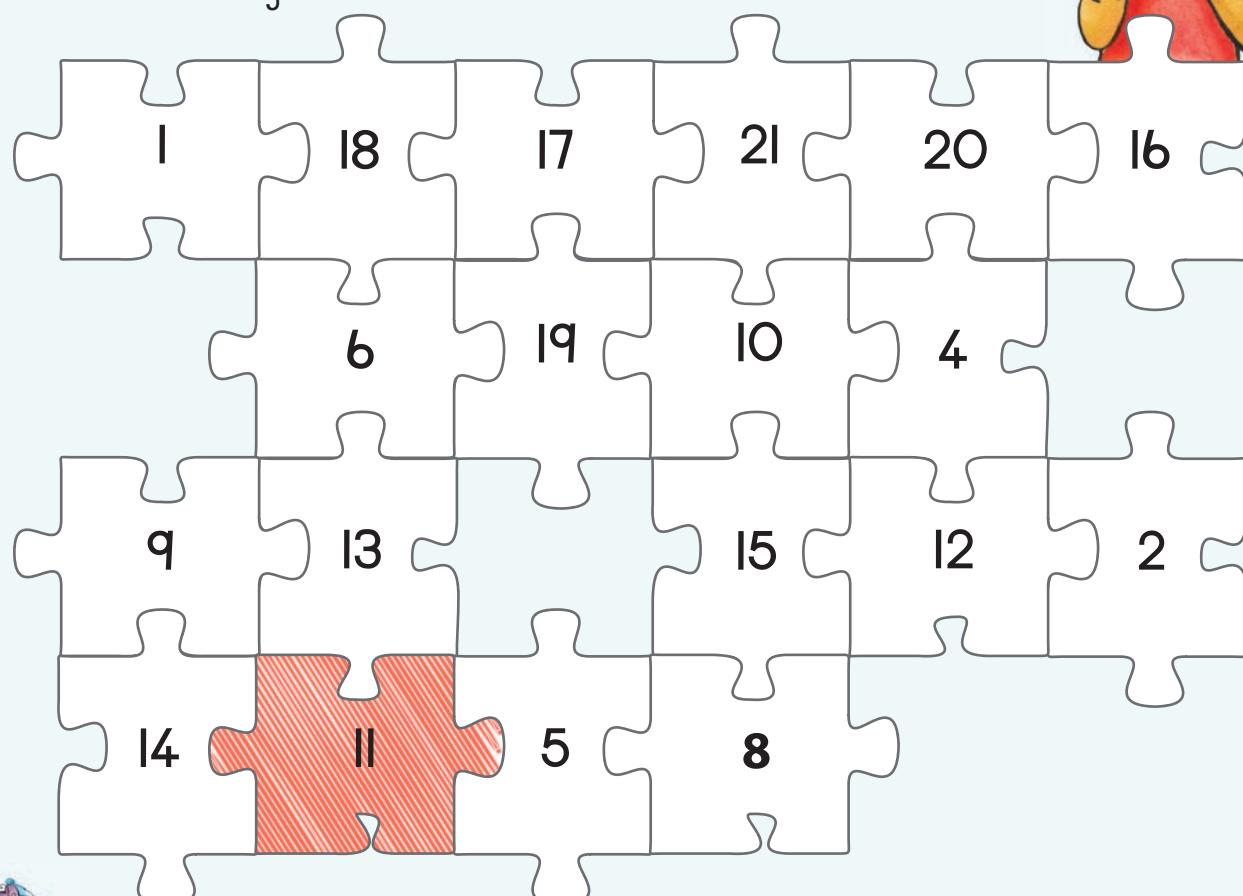
10 + 4 ngombala osarulani



10 + 0 ngombala
ohlaza satjani



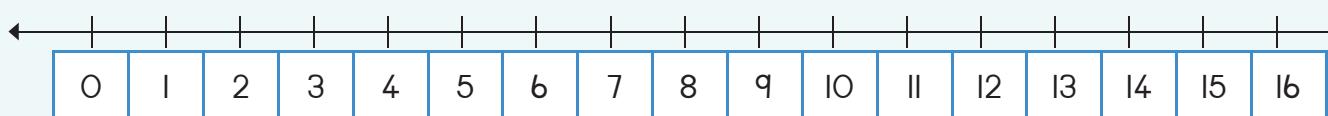
10 + 2 ngombala o-orentji



Tjengisa itjhumi nakune enambalayinini.



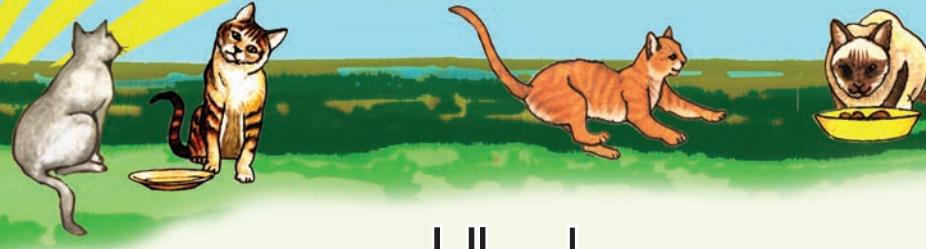
Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



96



Ilanga:

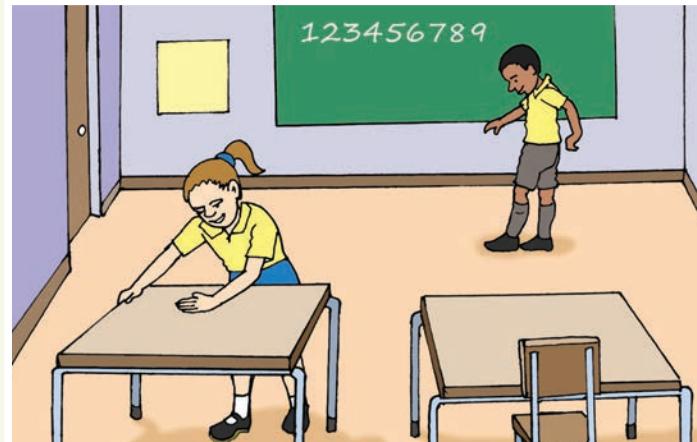
Ubude

Ithemu 3



Meda ubude nobubanzi bedeski nanyana itafula usebenzise ubude besandla sakho. Ubude betafula buthatha izandla ezingaki?

Ububanzi betafula buthatha izandla ezingaki?

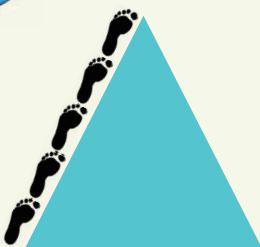


Ubude zizandla _____.

Ububanzi zizandla _____.



Magadango amangaki weenyawo enza ihangothi?



Qedeleta ngependulo.



Ubude zizandla _____.



0

1

2

3

4

5

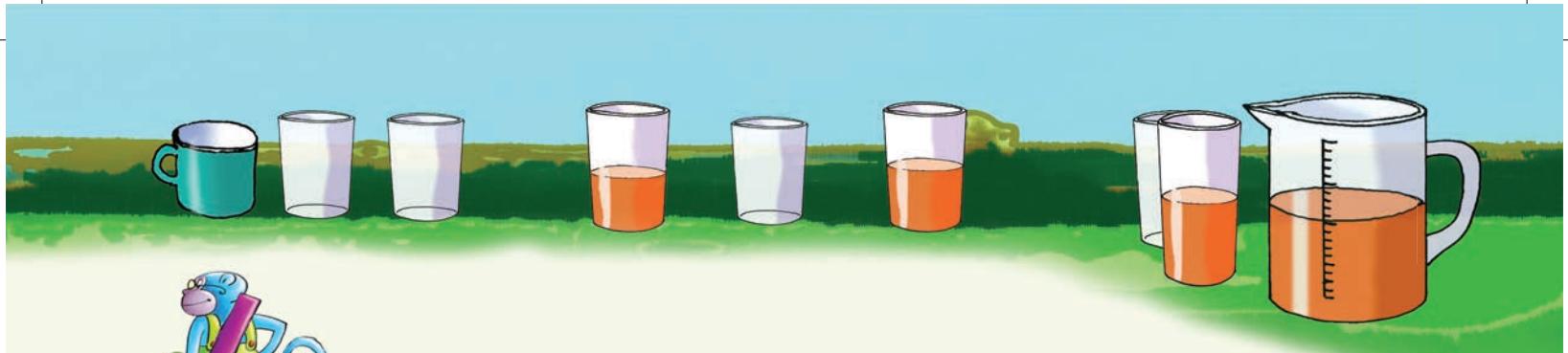
6

7

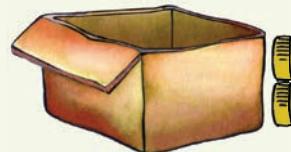
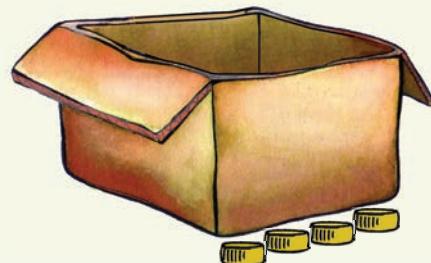
8

9

10



Yini ubude kanye nobubanzi bebhoksi?

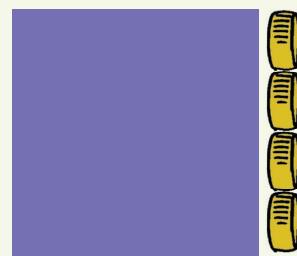
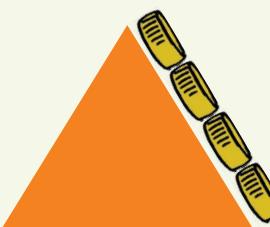


Ubude bulingana neemvalo
zamabhodlelo ____.

Ububanzi bulingana neemvalo
zamabhodlelo ____.



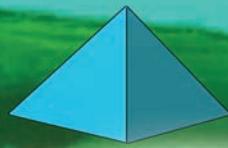
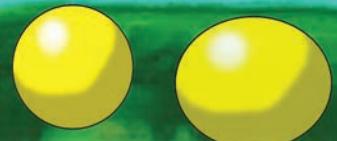
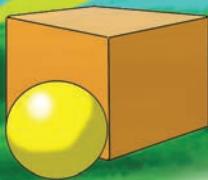
Ubude behlangothi bulingana neemvalo zamabhodlelo ezingaki?



Teacher:
Sign:
Date:



q7



Inomboro ye - 16

Ukubuyekeza:

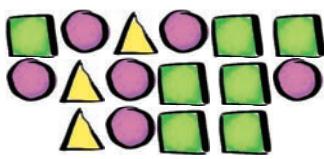
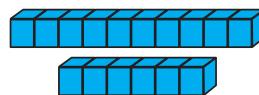
Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

7

khomba

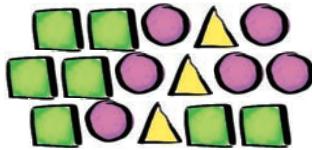


Madanisa iinthombe.

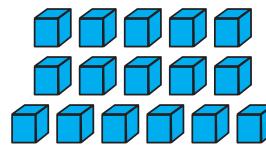


10
6

16



16



10
6

16 16 16 16

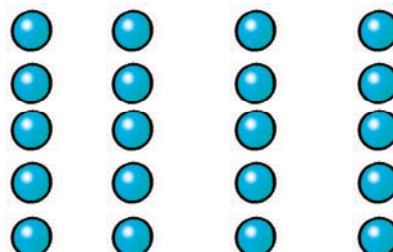
itjhumi nesithandathu

16 16 16 16

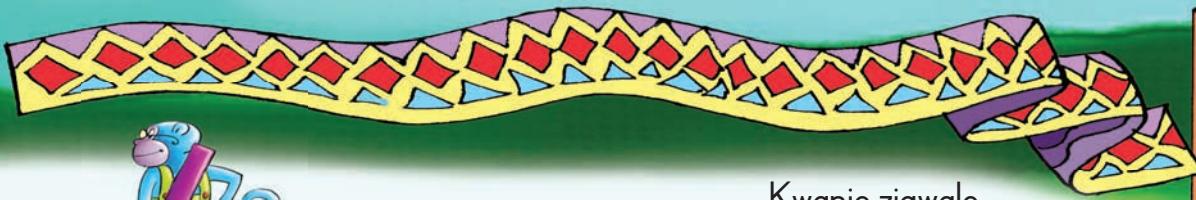
itjhumi nesithandathu



Ndulungela imincamo eli-16 kwaphela.



Kusele imincamo emingaki? _____



Gwala izinto ezili - 16.

Kwanje zigwale
ngendlela eyahlukileko.



Qedeleta ngenomboro
etlhayelako.

2	3	4
19		21
17		19



Qedeleta itheyibula. Umuda ngamunye
unesithombe, inomboro nebizo lenomboro leyo.

	16	
		itjhumi nesithandathu



Iyini inomboro encani ngakunye
ku-16? _____

Iyini inomboro ekulu ngakunye
ku-16? _____



Iyini enomboro encani ngakunye etjhumini nesithandathu?

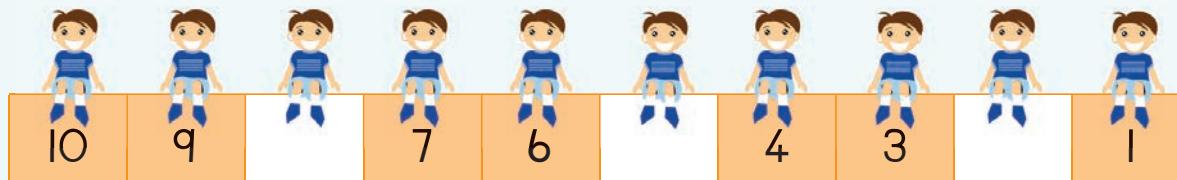


Iyini inomboro encani ngakubili etjhumini nasithandathu?

Iyini inomboro ekului ngakunye etjhumini nasithandathu?

Iyini inomboro ekulu ngakubili etjhumini nasithandathu?

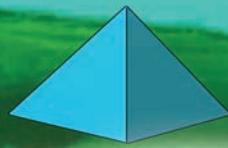
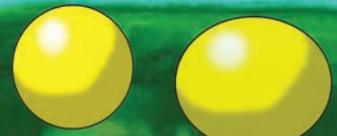
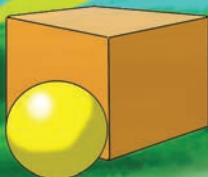
Tlola iinomboro ezitlhayelako.



11 12 13 14 15 16 17 18 19 20



98



Inomboro ye - 17

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

8

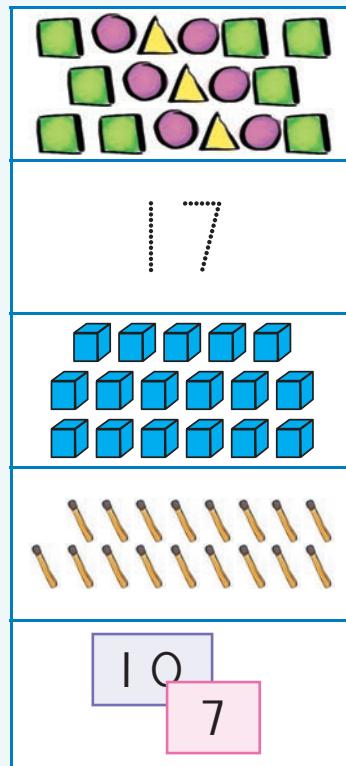
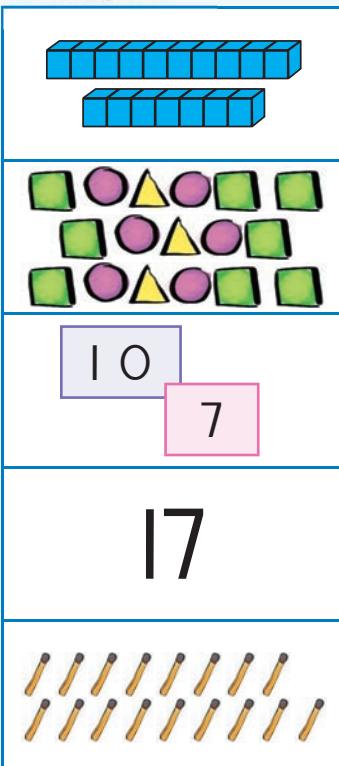
bunane



Madanisa iinthombe.



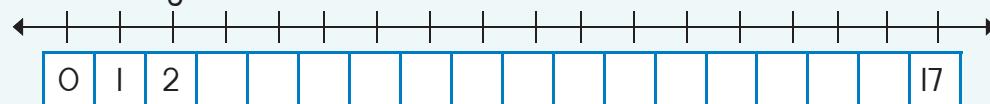
Gadangisa iinomboro.



17 17 17 17
itjhumi nekhomba
17 17 17 17
itjhumi nekhomba



Qedelela inambalayini.



68

0

1

2

3

4

5

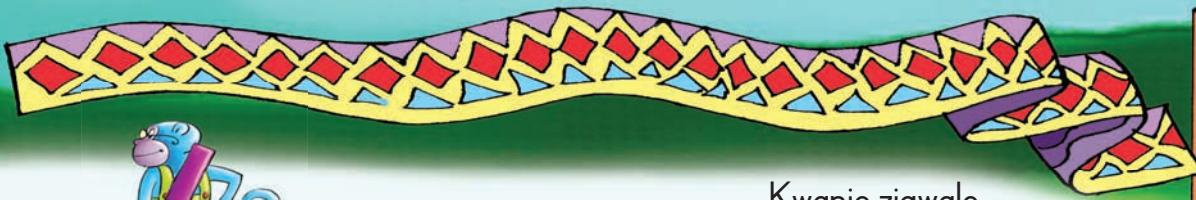
6

7

8

9

10



Gwala izinto ezili - 17.

Kwanje zigwale
ngendlela eyahlukileko.



Ngiyiphi inomboro
eza ngemva?

16	17	
24	25	
17	18	



Qedelela itheyibula.
Umuda ngamunye
unesithombe,
inomboro nebizo
lenomboro leyo.

	17	
		itjhumi nekhomba



Iyini inomboro encani ngakunye etjhumi nakhomba?

Iyini inomboro encani ngakubili etjhumi nakhomba?

Iyini inomboro ekulu ngakunye etjhumi nakhomba?

Iyini inomboro ekulu ngakubili etjhumi nakhomba?



Qedelela ngenomboro ethayelako.

Lezi ziinomboro ezibizwa
ngalezo ezingalingalinganiko.

	2		4		6		8		10
	12		14		16		18		20

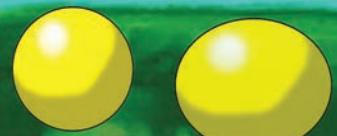
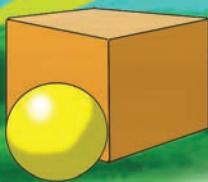


Teacher:

Sign:

Date:

qq



Inomboro ye -18

Ukubuyekeza:

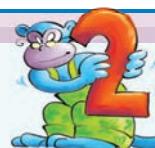
Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

q

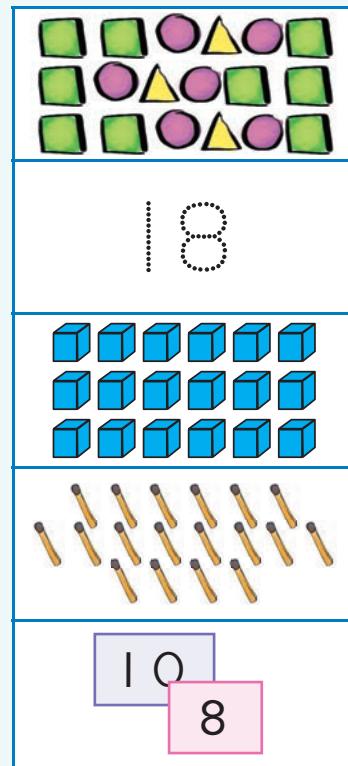
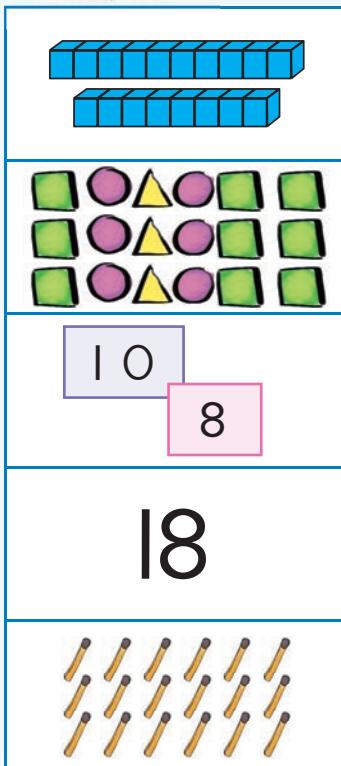
ithoba



Madanisa iinthombe.



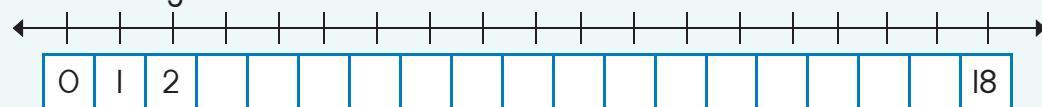
Gadangisa iinomboro.



18 18 18 18
itjhumi nobunane
18 18 18 18
itjhumi nobunane



Qedelela inambalayini.



70

0

1

2

3

4

5

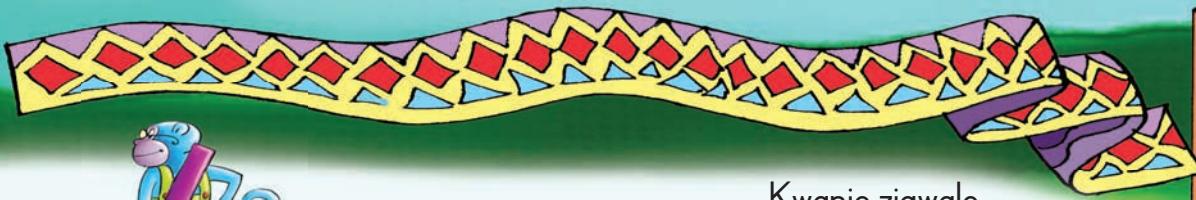
6

7

8

9

10



Gwala izinto ezili -18.

Kwanje zigwale
ngendlela eyahlukileko.



Ngiyiphi inomboro eza
ngemva kwale?

8	q	
33	34	
0	I	



Qedelela itheyibula.
Umuda ngamunye
unesithombe,
inomboro nebizo
lenomboro leyo.

	18	
		itjhumi nobunane



Ijini inomboro encani ngakunye etjhumi nobunane?

Ijini inomboro ekulu ngakubili etjhumi nobunane?

Ijini inomboro ekulu ngakunye etjhumi nobunane?

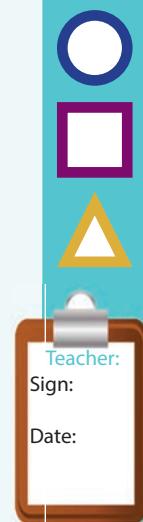
Ijini inomboro ekulu ngakubili etjhumi nobunane?



Qedelela ngenomboro ethhayelako.

I	2		4	5	6	7		9	10
II		I3	I4	I5		I7	I8		20

11 12 13 14 15 16 17 18 19 20

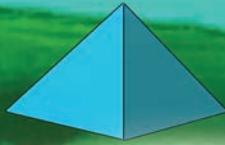
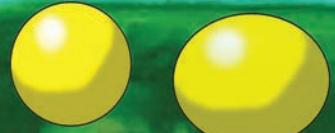
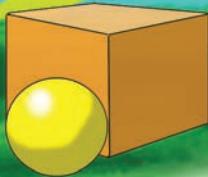


Teacher:
Sign:

Date:



100



Inomboro ye - 19

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

10

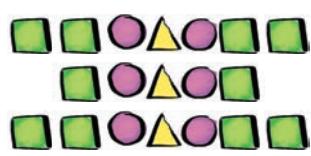
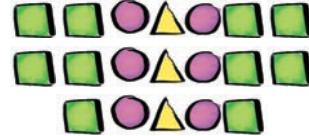
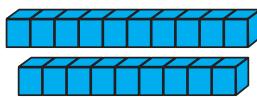
itjhumi



Madanisa iinthombe.



Gadangisa iinomboro.

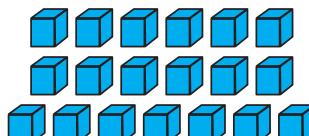


19

10

9

19



10
9

19 19 19 19

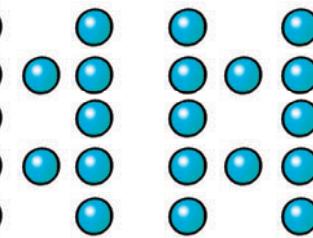
itjhumi nethoba

19 19 19 19

itjhumi nethoba



Ndulungela imincamo eli-19 kwaphela.



Kusele imincamo emingaki? _____



0

1

2

3

4

5

6

7

8

9

10



Gwala izinto ezili - 19.

Kwanje zigwale
ngendlela eyahlukileko.



Ngiyiphi inomboro
eza hlangana?

14		16
35		37
8		10



Qedelela itheyibula. Umuda ngamunye unesithombe, inomboro nebizo
lenomboro leyo.

	19	
		itjhumi nethoba



Iyini inomboro encani ngakunye etjhumi nethoba?

Iyini inomboro encani ngakubili etjhumi nethoba?

Iyini inomboro ekulu ngakunye etjhumi nethoba?

Iyini inomboro ekulu ngakubili etjhumi nethoba?



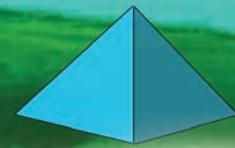
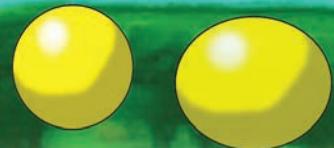
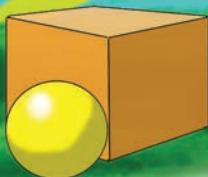
Qedelela ngenomboro ethhayelako.

Lezi ziinomboro ezaziwa
ngezilingalinganako.

I		3		5		7		9	
II		13		15		17		19	



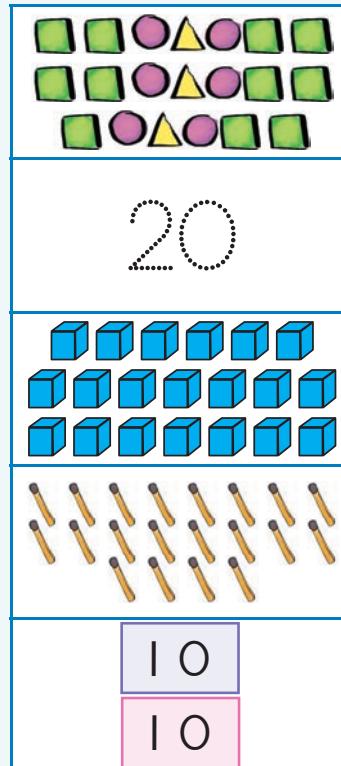
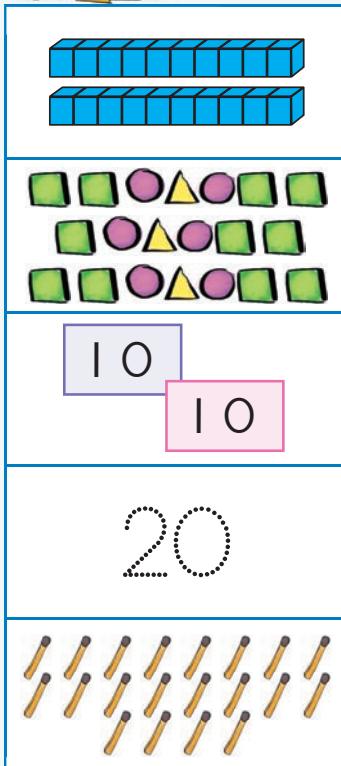
101



Inomboro yama - 20



Madanisa iinthombe.



Gadangisa iinomboro.

20 20 20 20

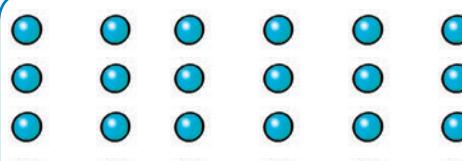
amatjhumi amabili

20 20 20 20

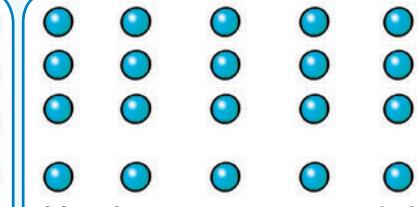
amatjhumi amabili



Ndulungela
imincamo
ema - 20
kwaphela.



Kusele imincamo emingaki? _____



Kusele imincamo emingaki? _____



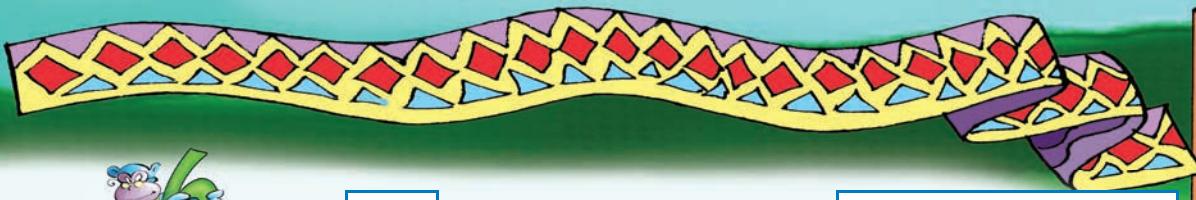
Qedelela itheyibula. Umuda ngamunye
unesithombe, inomboro nebizo lenomboro leyo.

	20	amatjhumi amabili
		amatjhumi amabili
20		



Iyini inomboro encani ngakunye
ematjhumi amabili? _____

Iyini inomboro ekulu ngakunye
ematjhumi amabili? _____



Hlanganisa
inomboro
nebizo.

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



Qedelela ngenomboro
etlhayelako.

Ngaphambili		Ngemva
16	17	
	12	
	14	
	9	10
	6	

kune
likhomba
lithoba
kuthathu
litjhumi nanye
itjhumi nambili
kunye
kubili
bunane
iqanda
kuhlalu
sithandathu
itjhumi nantathu
itjhumi
itjhumi nane



Sebenzisa ukuncani nanyana
kukhulu ukuqedelela okulandelako:

u-35 _____ kunama-38

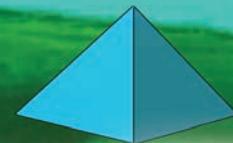
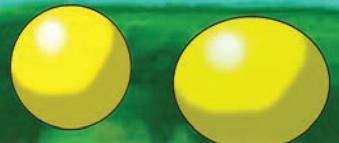
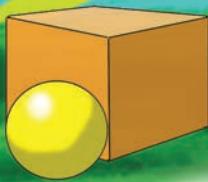
u-79 _____ kunama-65



Teacher:
Sign:
Date:



102



Ukuhlanganisa



Ndulungela inomboro ekulu khulu ngebhlogweni ngalinye.

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

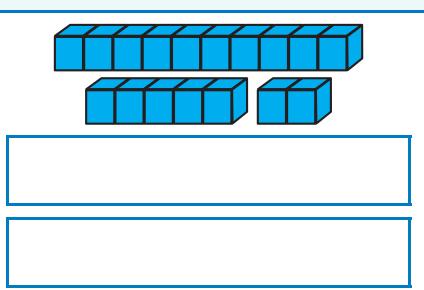
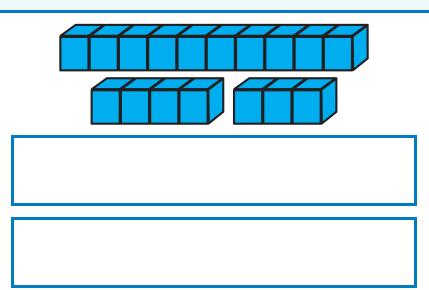
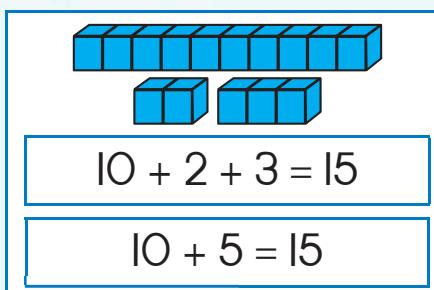


Hlanganisa okulandelako.
Thoma ngokubeka
inomboro ekulu qange.

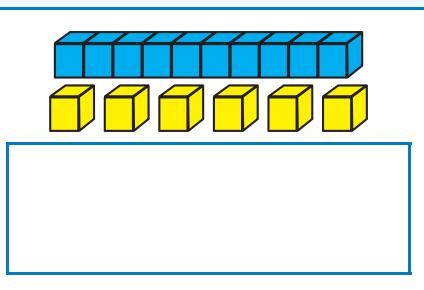
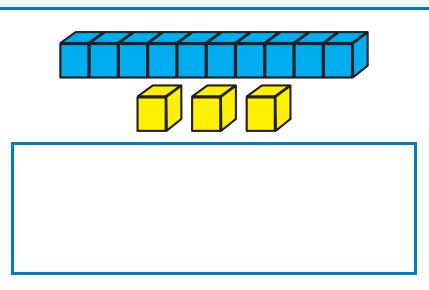
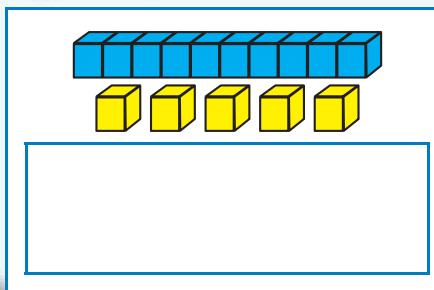


Ngezelela ngamabhlogo.

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

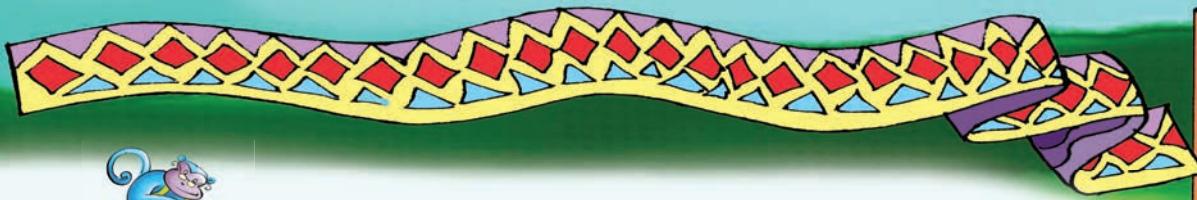


Tlola umutjho weenomboro walokhu okulandelako:



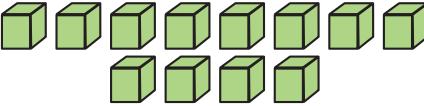
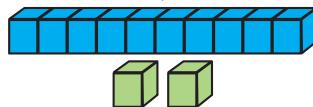
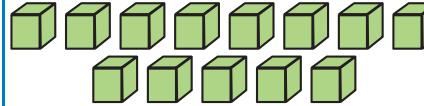
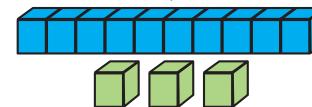
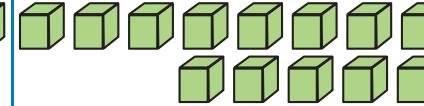
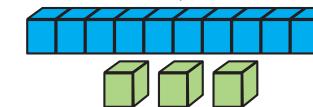
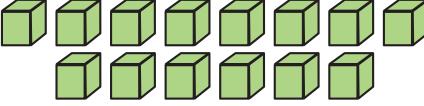
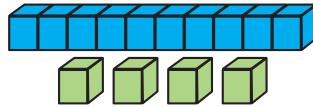
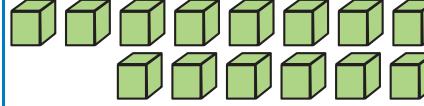
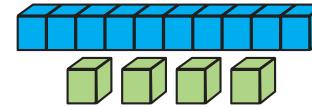
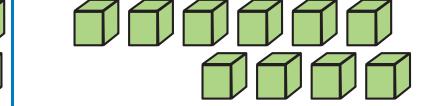
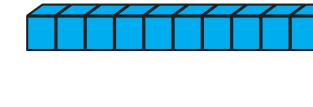
76





Tlola umutjho weenomboro wokhunye nokhunye kwalokhu
okulandelako:



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



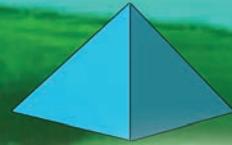
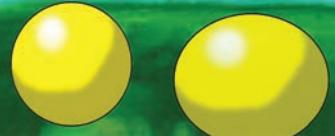
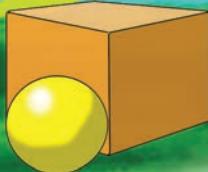
Qedeleta ngeenomboro ezilandelako:

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



Teacher:
Sign:
Date:

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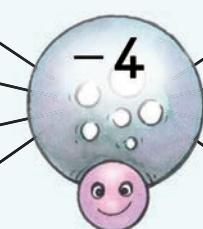
Ithemu 4

Ukukhupha

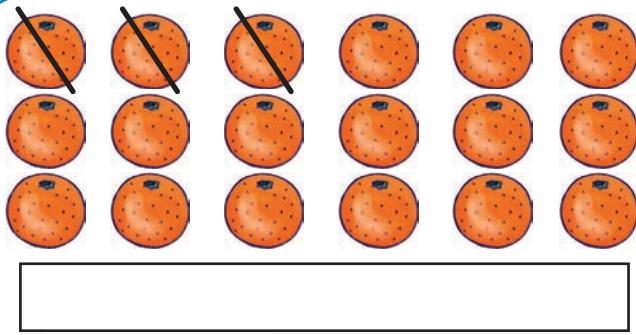


Balisasa.

17
19
14
12



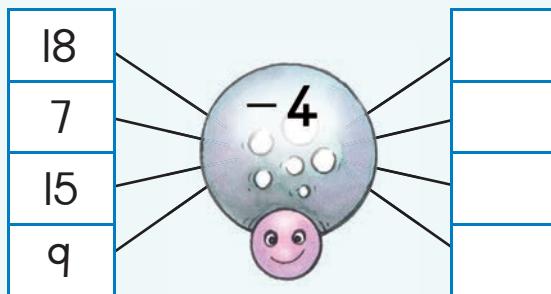
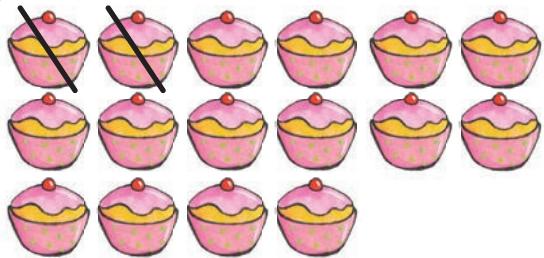
Tlola umutjho weenomboro.



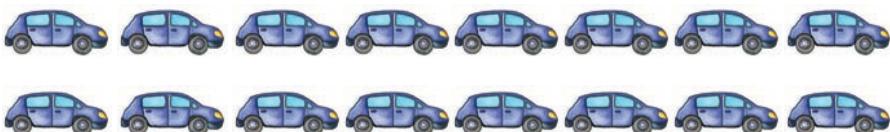
Tlola umutjho weenomboro.



Balisasa.



Qedelela iimbalo ngokuthi ugwale imigwalo.



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



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



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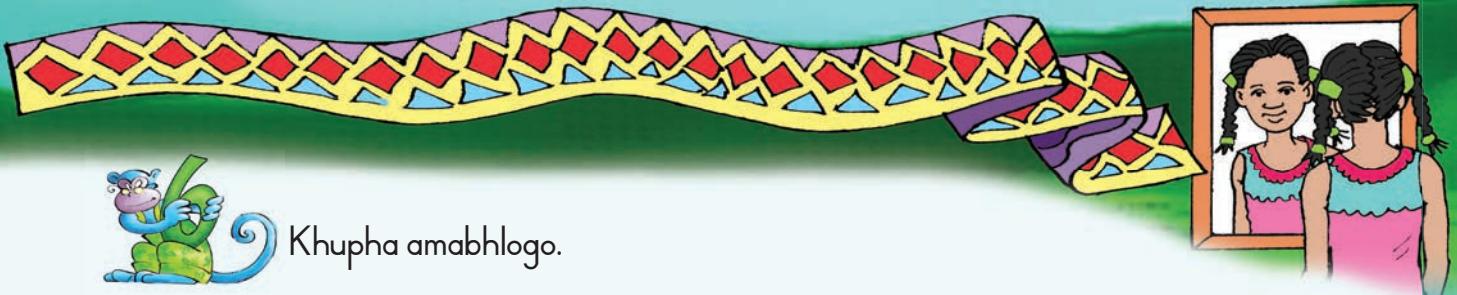
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Khupha amabhlogo.

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



Balisisa
okulandelako:

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



Balisisa okulandelako:

u-5 nakabuyelelwwe kibili	<input type="text"/>	u-3 nakabuyelelwwe kibili	<input type="text"/>	u-4 nakabuyelelwwe kibili	<input type="text"/>
u-7 nakabuyelelwwe kibili	<input type="text"/>	u-2 nakabuyelelwwe kibili	<input type="text"/>	u-8 nakabuyelelwwe kibili	<input type="text"/>
i-10 nalibuyelelwwe kibili	<input type="text"/>	u-9 nakabuyelelwwe kibili	<input type="text"/>	u-1 nakabuyelelwwe kibili	<input type="text"/>

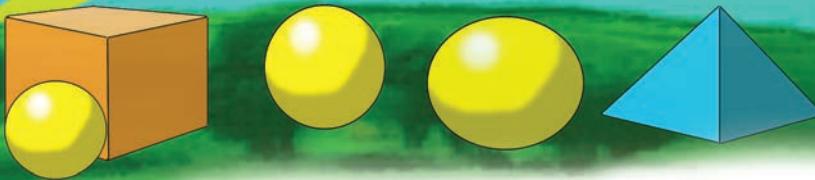


Phendula
okulandelako:

$9 + 9 - 1 =$	<input type="text"/>	nanyana	$u-9$ nakabuyelelwwe kibili - 1 =	<input type="text"/>
	<input type="text"/>	nanyana	$u-5$ nakabuyelelwwe kibili - 1 =	<input type="text"/>
$4 + 4 - 1 =$	<input type="text"/>	nanyana		



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Ukuhlanganisa nokukhupha

Ithemu 4



Bala kobana kunabokatsu abangaki abahlezi elangeni.
Ebusuku, abanye babo bayakhamba bayokulala ngemva komthangala.
Balisia kobana bangaki abangemva komthangala bese utlola isibalo phasi.

$3 + \boxed{\quad} = 8$

$4 + \boxed{\quad} = 8$



Rarulula okulandelako.
Ungagwala imgwalo ukuze ikusize.



ULerato unama-orentji ama-4. UPeter umnikela amanye ali-13.
Kwanje uLerato sele anama-orentji amangaki nakawoke?

UMandla unamakhrayoni amade ama-5. U-Anne unamakhrayoni amade abu-8.
Ngubani onamakhrayoni ambalwa?



80

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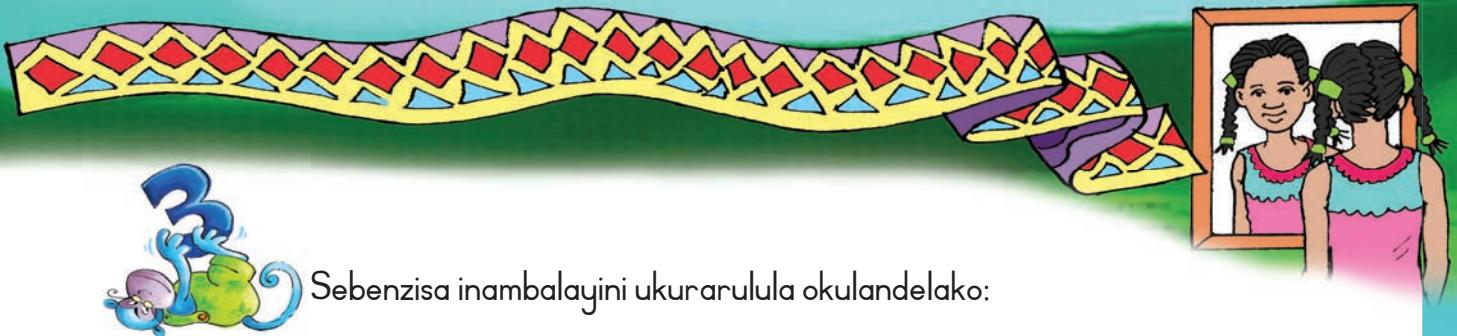
6

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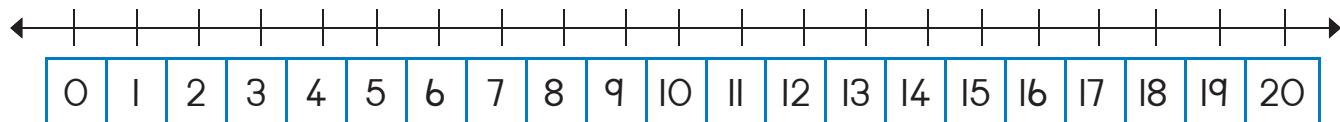
9

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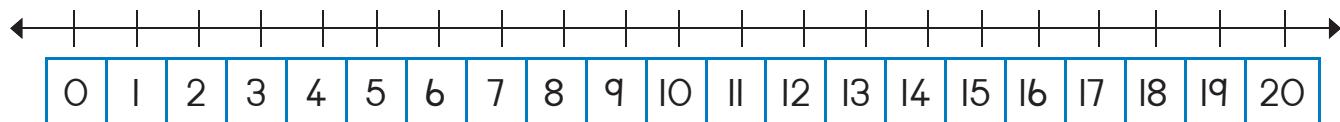


Sebenzisa inambalayini ukurarulula okulandelako:

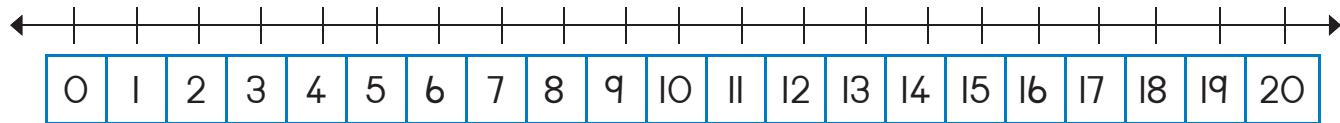
UThandi unamamabula asi-6 ahlaza satjani nali-9 ahlaza sasibhakabhaka. UThandi unamamabula amangaki sele awoke?



ULerato unamamabula ali-16. Abunane ahlaza satjani bese kuthi amanye abe hlaza sasibhakabhaka. ULerato unamamabula ahlaza sasibhakabhaka amangaki?



UThandi unamabhanana ali-19. UThemba unamabhanana ali-10.
UThandi unamabhanana amanengi kangangani ukudlula uThemba?



Ngiziphi iinomboro ezihlangana kwama-26 nama-30.



Ndulungela inomboro ekulu ngakunye kunama-76.

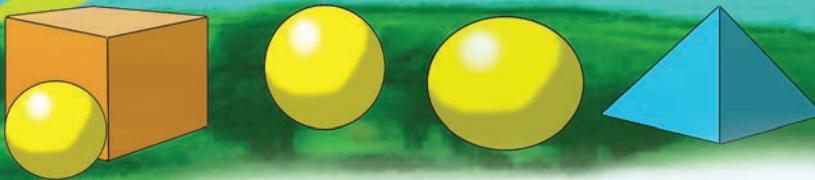
74	75	76	77	78
----	----	----	----	----



Ndulungela inomboro ekulu ngaku-2 kunama-76.

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

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Iinomboro ezijayelekileko



Ngubani ofike kokuthoma emgijimweni?

Tlola iindawo (ukuya ngomgijimo) ngenzasi kwabo.

uSipho



uLerato



uJohn



uPeter



u-Ann



2

3



Bagwale
kuphodiyamu.

Isiliva

Igolide

Ibronzi

Ngubani ofunyene unongorwana wegolide?

Ngubani ofunyene unongorwana wesiliva?



Gwala umucu womncamo
walokhu okulandelako:

Umncamo wokuthoma uhlaza sasibhakabhaka.

Umncamo wesibili ubovu.

Umncamo wesithathu uhlaza satjani.

Umncamo wesine usarulani.

Umncamo wesihlanu uhlaza satjani.

Umncamo wesithandathu ubovu.

Umncamo wekhomba uhlaza satjani.

Umncamo wobunane usarulani.

Umncamo wethoba uhlaza sasibhakabhaka.

Umncamo wetjhumi ubovu.

Umucu wami womncamo.



82

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Qalisia ukulamana kwamajamo.
Kopululela amajamo eendaweni ezifaneleko ngetheyibuleni.
Sewenzelwe isibonelo.



Ngiliphi ijamo:

Elisendaweni yesine		Elisendaweni yekhomba	
Elisendaweni yesihlanu		Elisendaweni yethoba	
Elisendaweni yesibili		Elisendaweni yokugcina	
Elisendaweni yesithathu		Elisendaweni yesithandathu	



Yenza okulandelako:



Khalara ijamo lokuthoma ngombala obov.



Khalara ijamo lesihlanu ngombala osarulani.



Khalara ijamo lobunane ngombala ohlaza sasibhakabhaka.

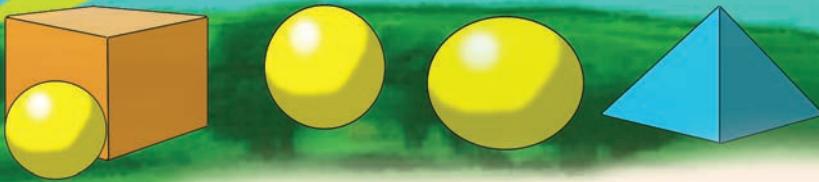


Gwala inambalayini esuka e-10 ukufika ema-20.
Ndulungela inomboro yesithathu neyobunane.



Teacher: _____
Sign: _____
Date: _____

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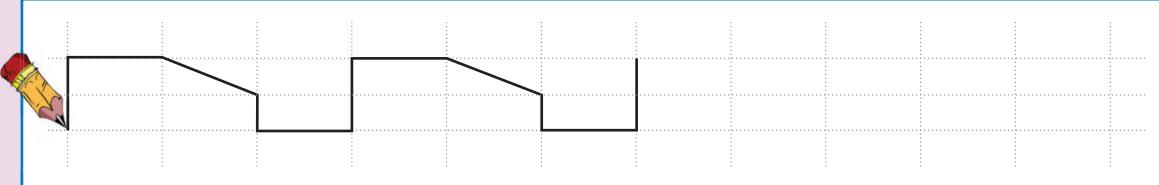


Ithemu 4

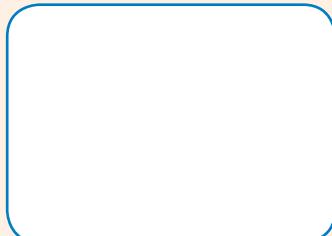
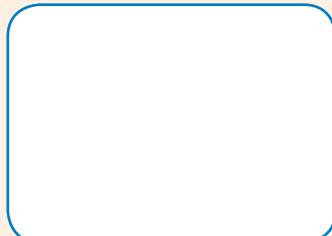
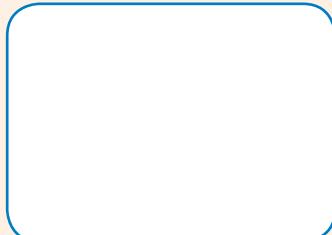
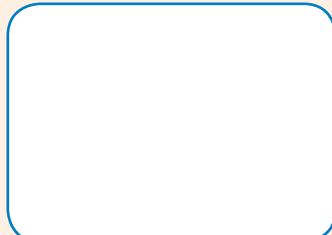
Izinto namajamo

Ukubuyekeza:

Ukubuyekeza: Madanisa amaphetheni.

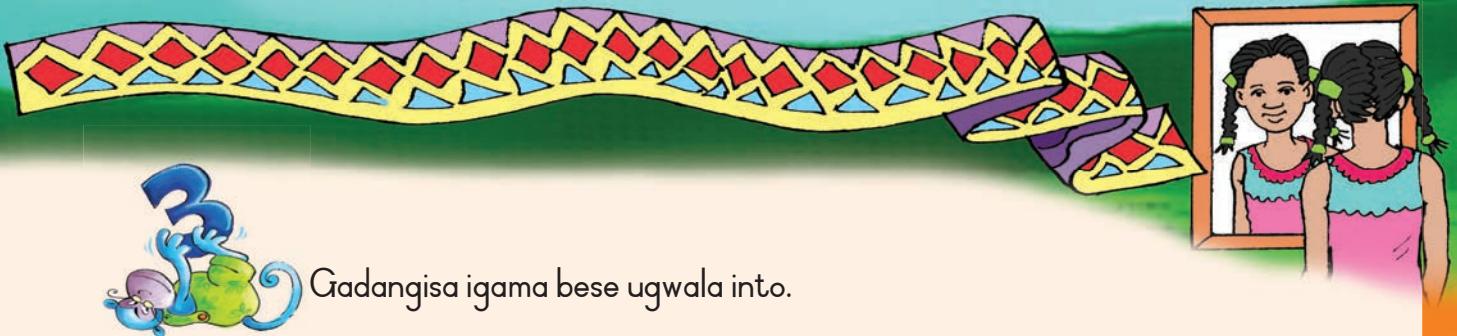


Funyana iinthombe ezimbili zebholo kanye nezimbili zebhoksi ephephandaben
nanyana kibomegazini bese uzinamathisela lapha ngenzasi.



Gwala isiyungi esihlaza sasibhakabhaka undulungele zoke izinto ezingatjhelela.
Gwala isikwere ufake ngaphakathi zoke izinto ezingagedeka.





Gadangisa igama bese ugwala into.

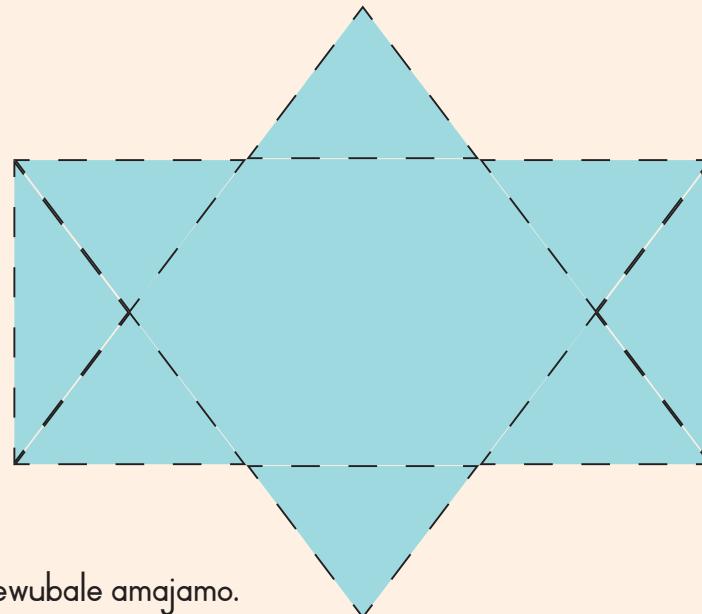
Ibhoksi



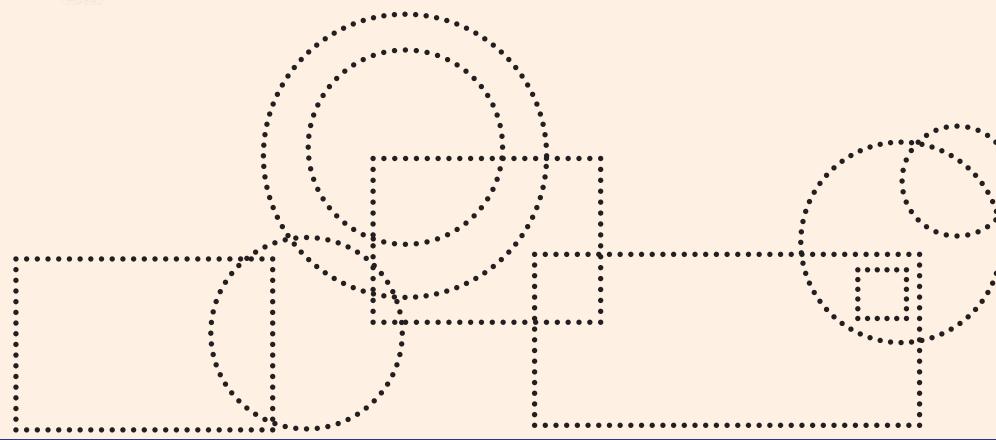
Bala aboncantathu bese utlola inomboro.

Ibholo

Ipendulo:



Gadangisa bewubale amajamo.



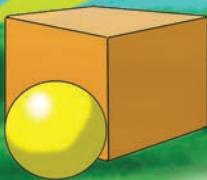
Iindulungu



Iinkwere



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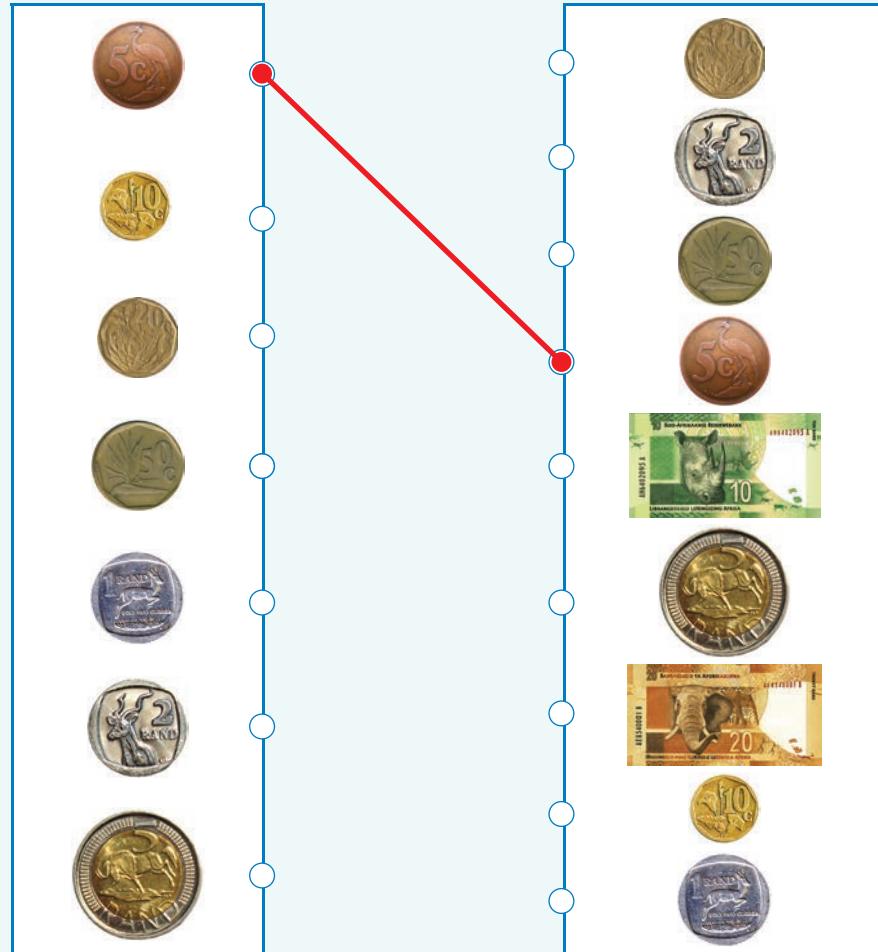
Ithemu 4



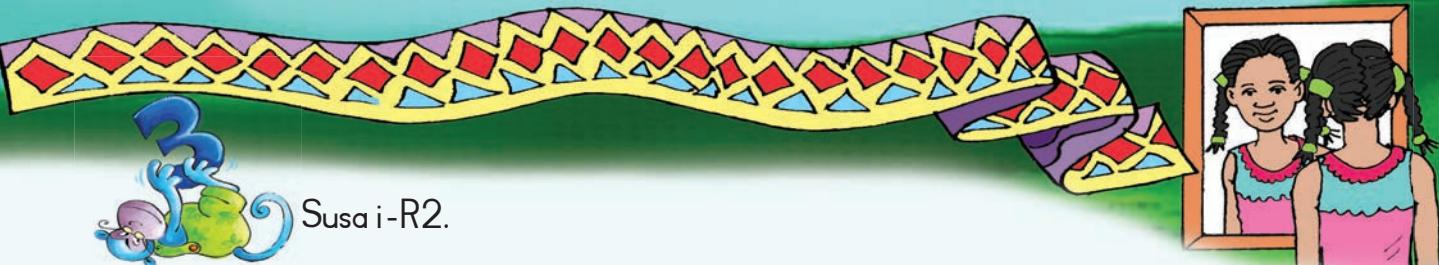
Ngiyiphi
imali yesimbi
ongayimadanisa
ndawonye?



Ngebhlogweni ngalinye thika imali yesimbi kanye neyamaphepha
ezokunikela imali etlolwe ngeqadi.



RIO					
R20					
RI5					



Susa i-R2.

$RI2 - R2 = RIO$		



Susa i-R5

$RI5 - R5 = RIO$		



Ziimbalo zokuhlanganisa ezihlukeneko ezingaki ongazigwala ngemali ema-R20?
Sewenzelwe isibonelo esisodwa.

--	--



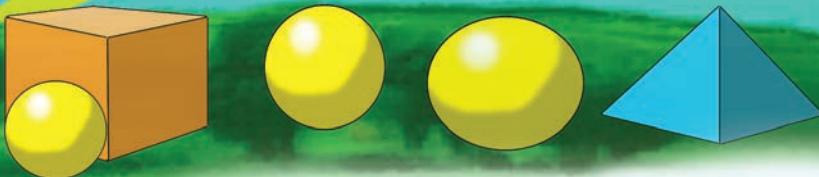
Ndulungela imali yesimbi
emudeni ngamunye
ongathenga ngayo okunengi.



Teacher:
Sign:
Date:



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Ithemu 4

Ezinye iimbalo zemali

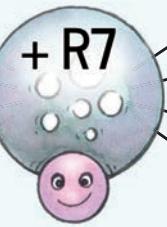


Balisisa.



Balisisa.

R5
R9
R7
R4





Qedeleta ngependulo
enembako.



Ngikuphi okunengi?
Ndulungela ipendulo yakho.

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

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



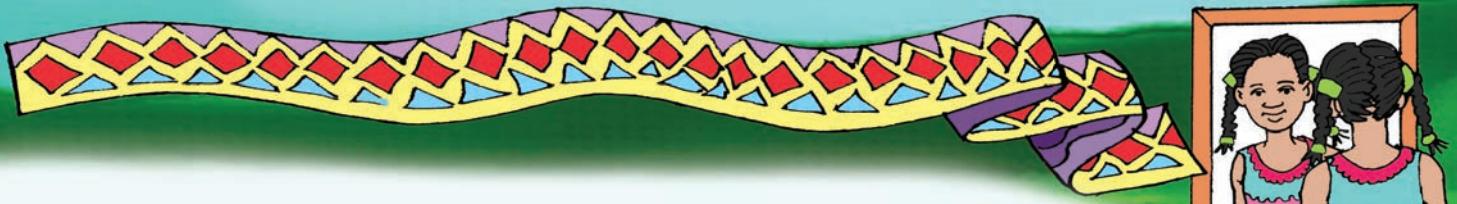
Hlanganisa iinomboro ezivundlako nalezo ezehlako bese uqedeleta iimpendulo.

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



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Qalisa isibonelo
bese uqedelela koke
okulandelako.



UJames uthenga uburotho
ngama-R8. Ubhadela ngemali yephepha
ema-RIO. UJames wabuyelwa yimalini?

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



Umma kaBusi uthenge ingwani
yelanga ngama-RI7. Ubhadale
ngemali yamaphepha, ema-RIO
amabili.



Ilanga lamabeletho lakaJudy
belingeSondo. Udadwabo umuphe i-R5.
Umnakwabo wamupha i-R2 kwase
kuba mzala wakhe owamupha i-RIO.
Seyihlangene, yimalini imali uJudy
ayifunyanako nasele ihlangene yoke?

Uthini umbuzo?

Tlola iinomboro.

Tlola isibalo bese uyabalissa.

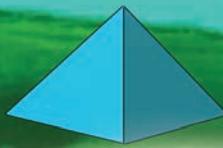
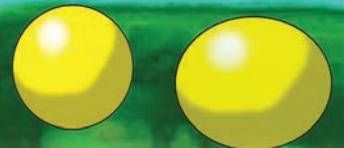
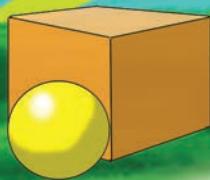
Uthini umbuzo?

Tlola iinomboro.

Tlola isibalo bese uyabalissa.



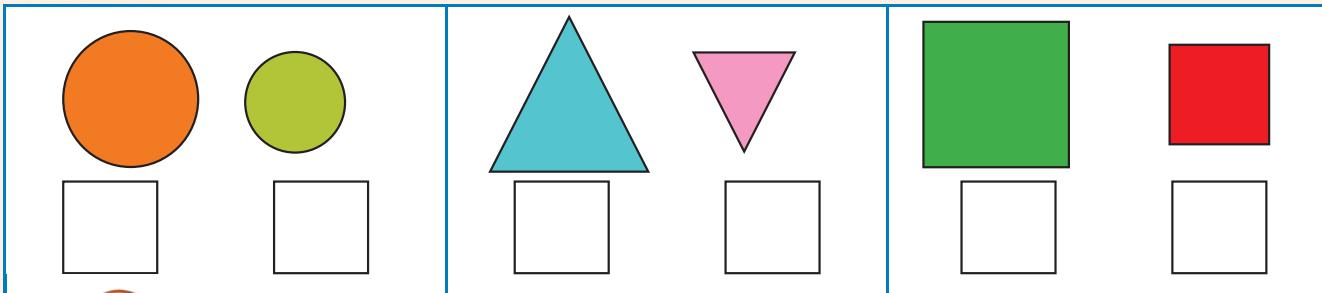
10q



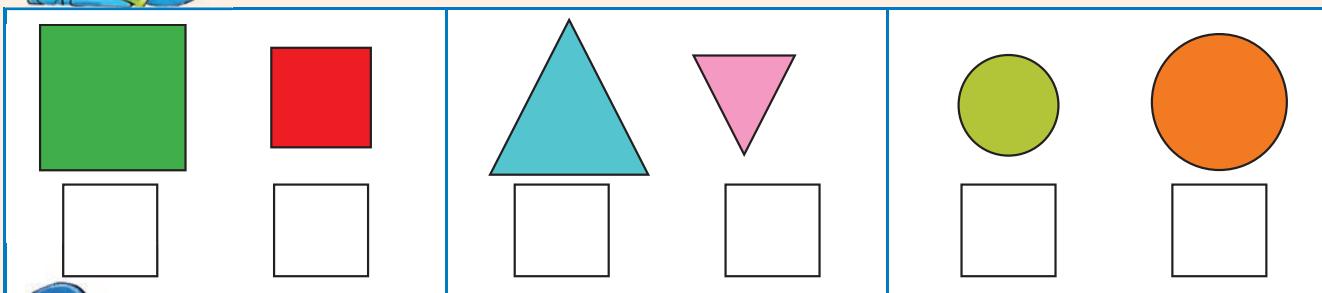
Ithemu 4



Thika ijamo elincani khulu ebhlogweni ngalinye.

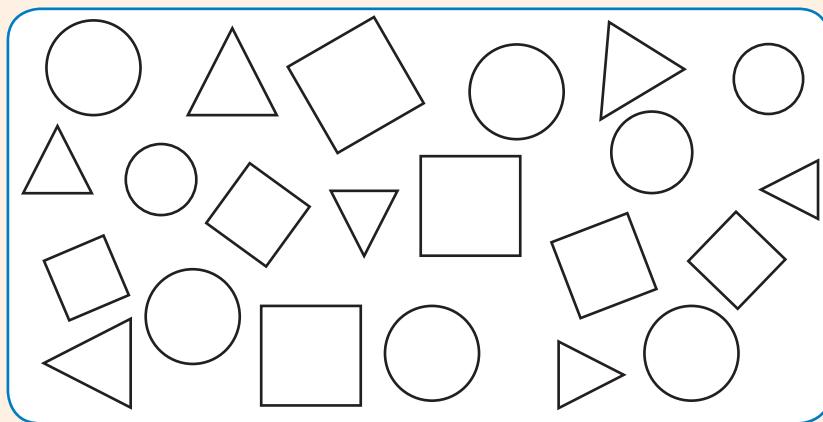


Thika ijamo elikhulu khulu ebhlogweni ngalinye.

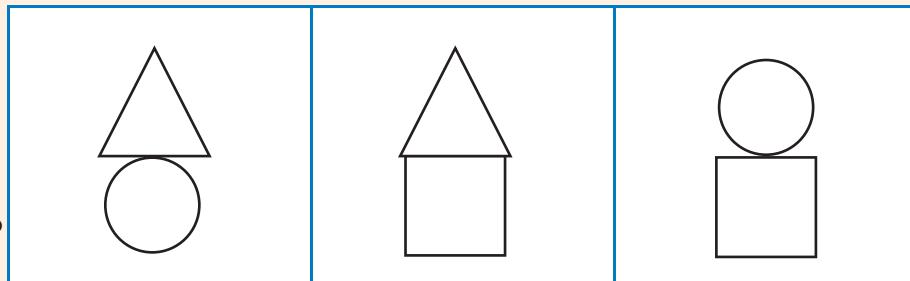


Khalara:

- Inkwere ngombala ohlaza sasibhakabhaka
- Aboncantathu ngombala obovu
- Iindulungu ngokuhlaza satjani



Gwala isithombe usebenzise amajamo. Sikuthomele esinye nesinye isithombe ngamajamo amabili.



90

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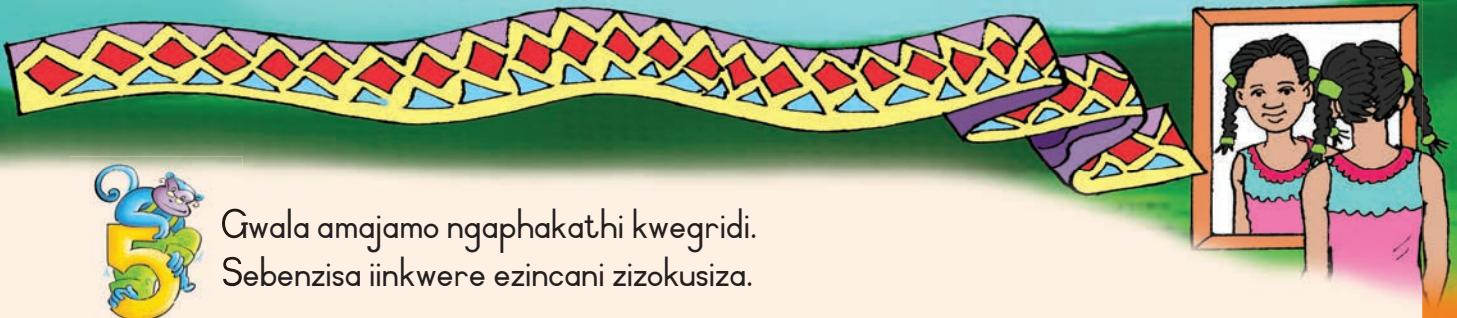
6

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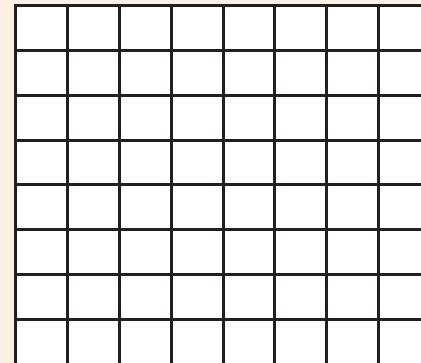
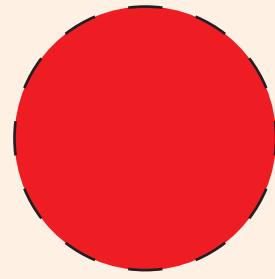
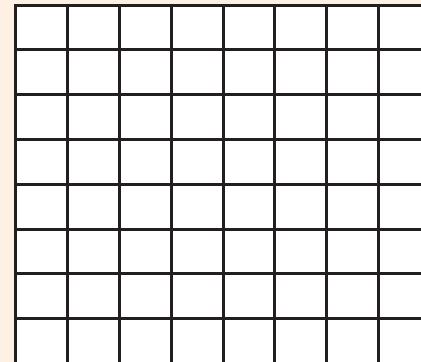
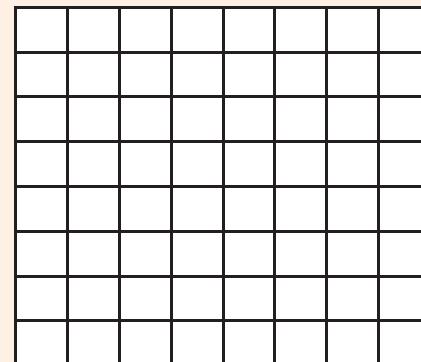
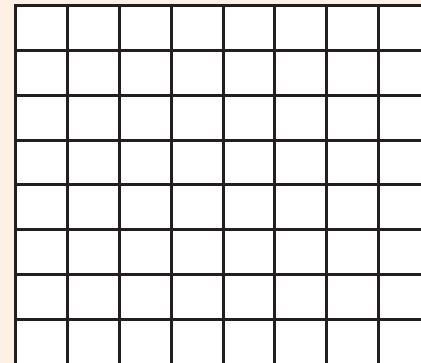
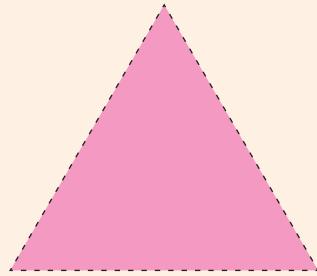
8

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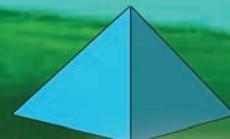
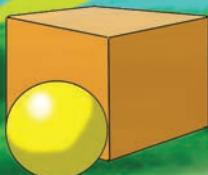
10



Gwala amajamo ngaphakathi kwegridi.
Sebenzisa iinkwere ezincani zizokusiza.



110

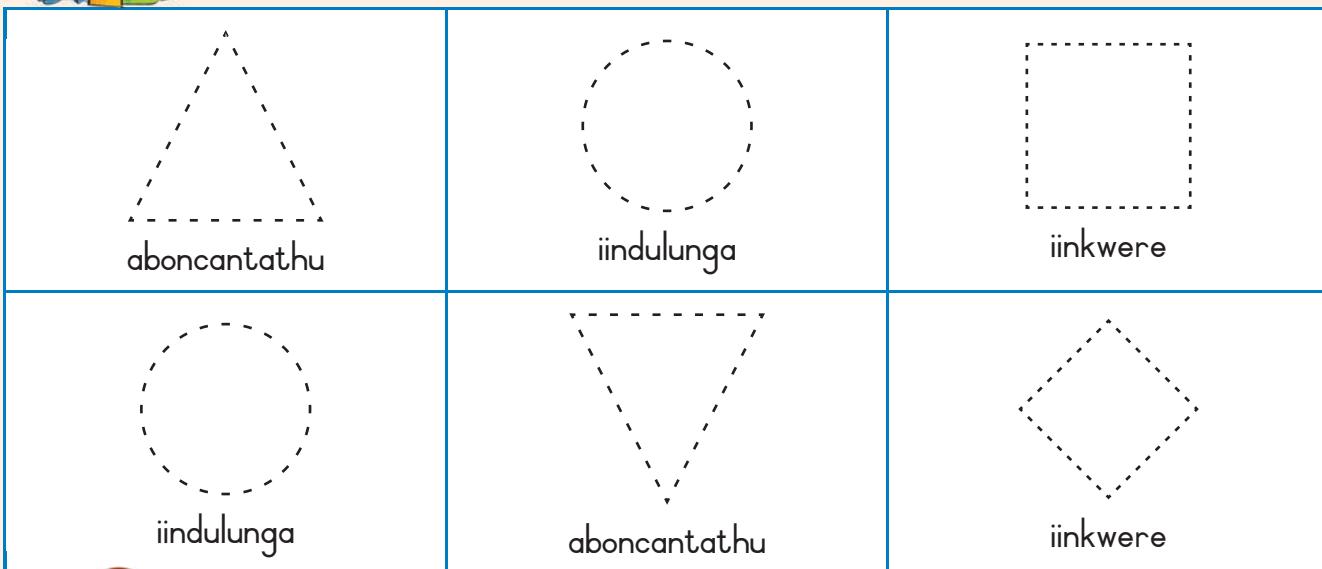


Ithemu 4

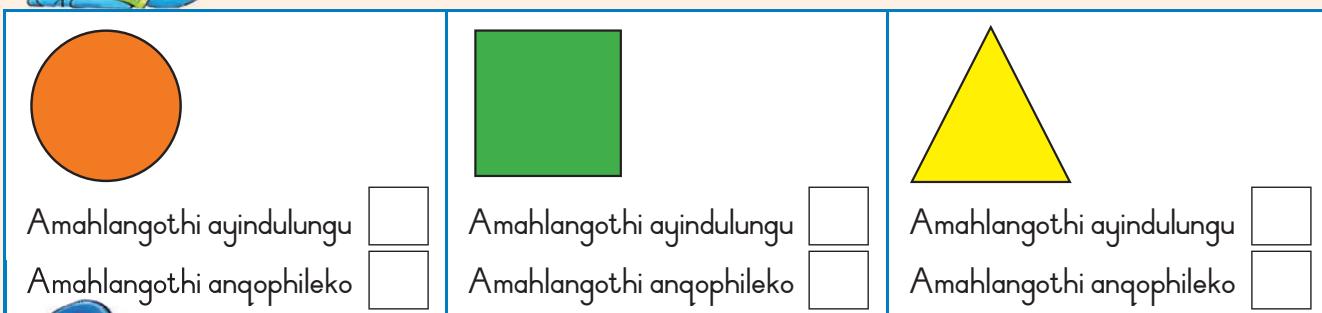


Amajamo we -2-D – amahlangothi anqophileko nayindulungu

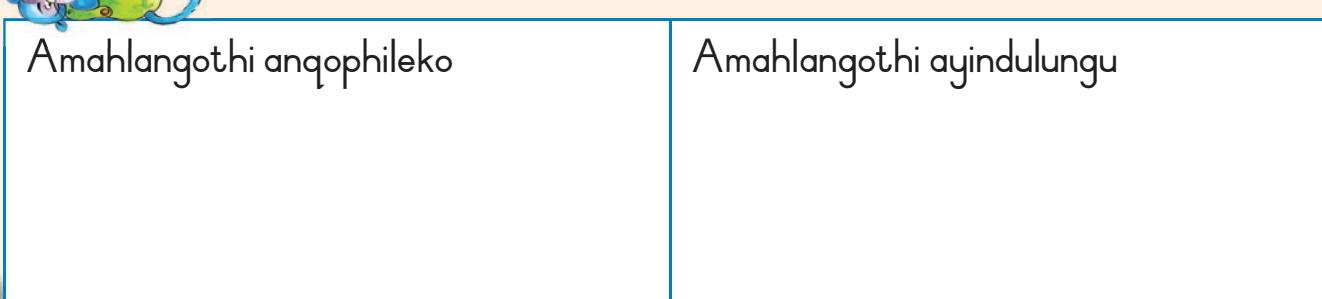
Gadangisa amajamo alandelako.



Thika ukutjho nangabe ijamo linamahlangothi anqophileko nanyana ayindulungu.



Gwala ijamo elinamahlangothi alandelako:



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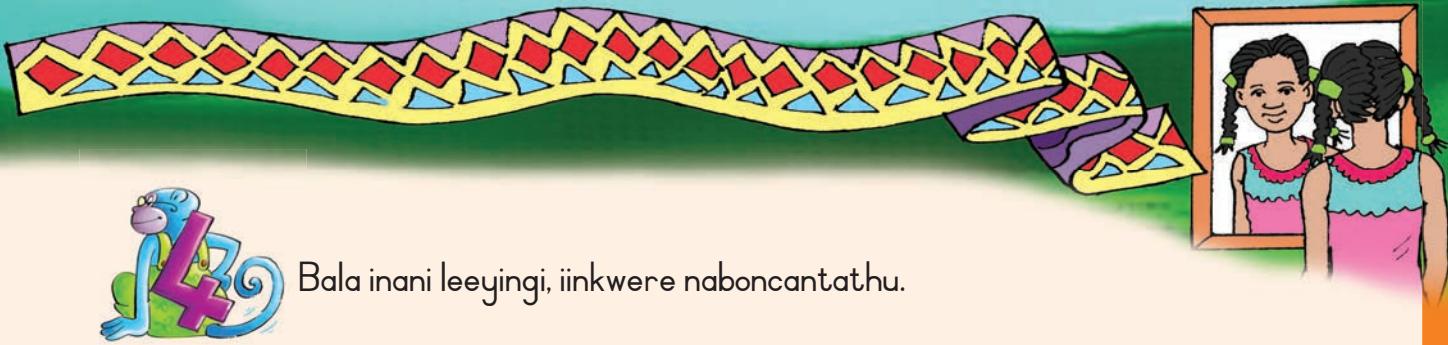
6

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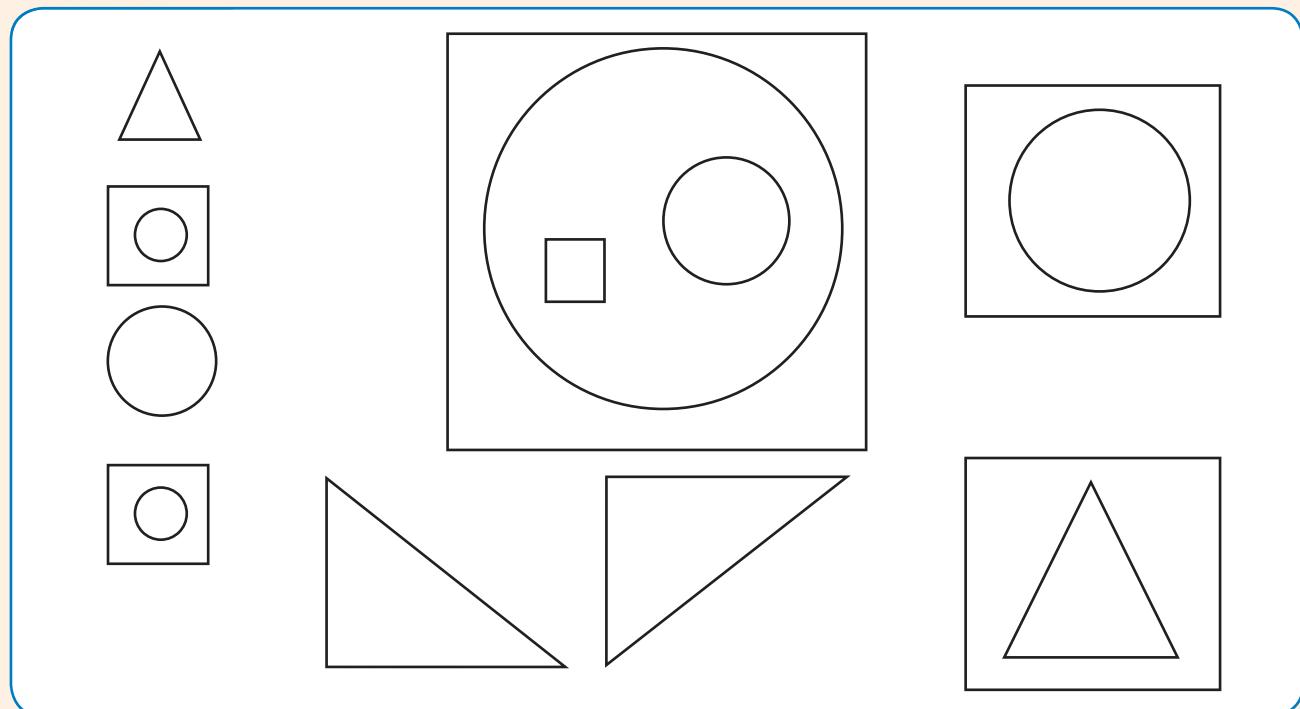
8

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Bala inani leeyingi, iinkwere naboncantathu.



Iindulungu

Iinkwere

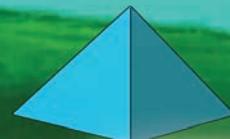
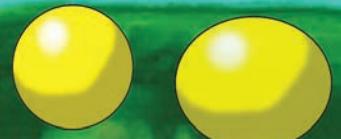
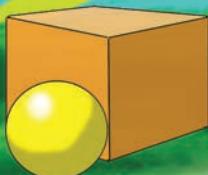
Aboncantathu

Funyana isithombe sezinto kibomegazini ezine:

Amahlangothi ayindulungu

Amahlangothi anqophileko

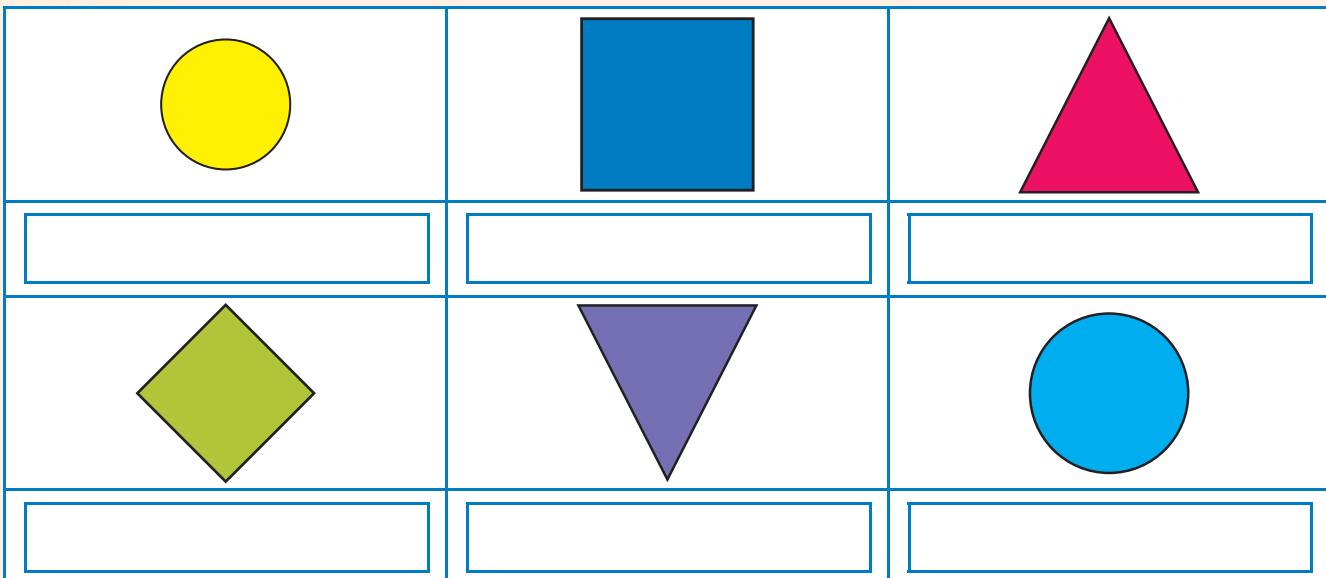




Ithemu 4



Yitjho amajamo alandelako:



Zigwalele sakho isithombe usebenzise iiyangi, aboncantathu neenkwere kwaphela.



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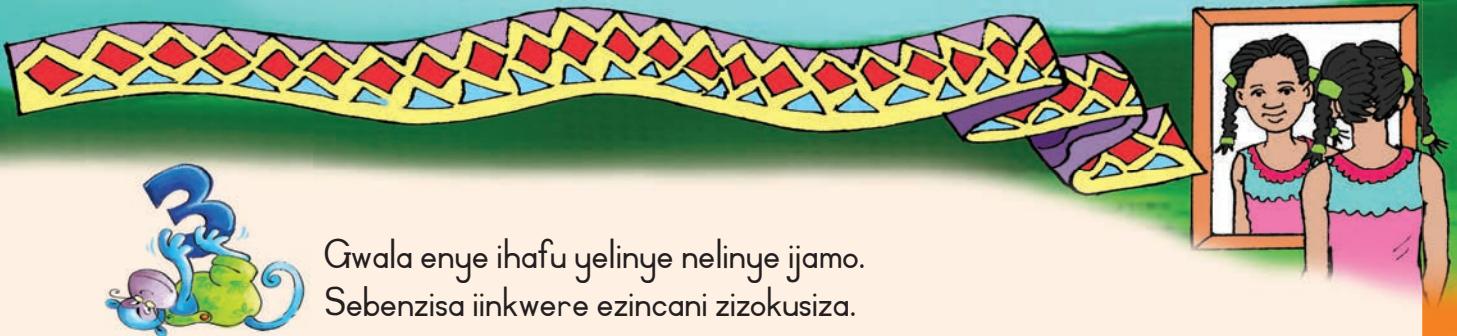
6

7

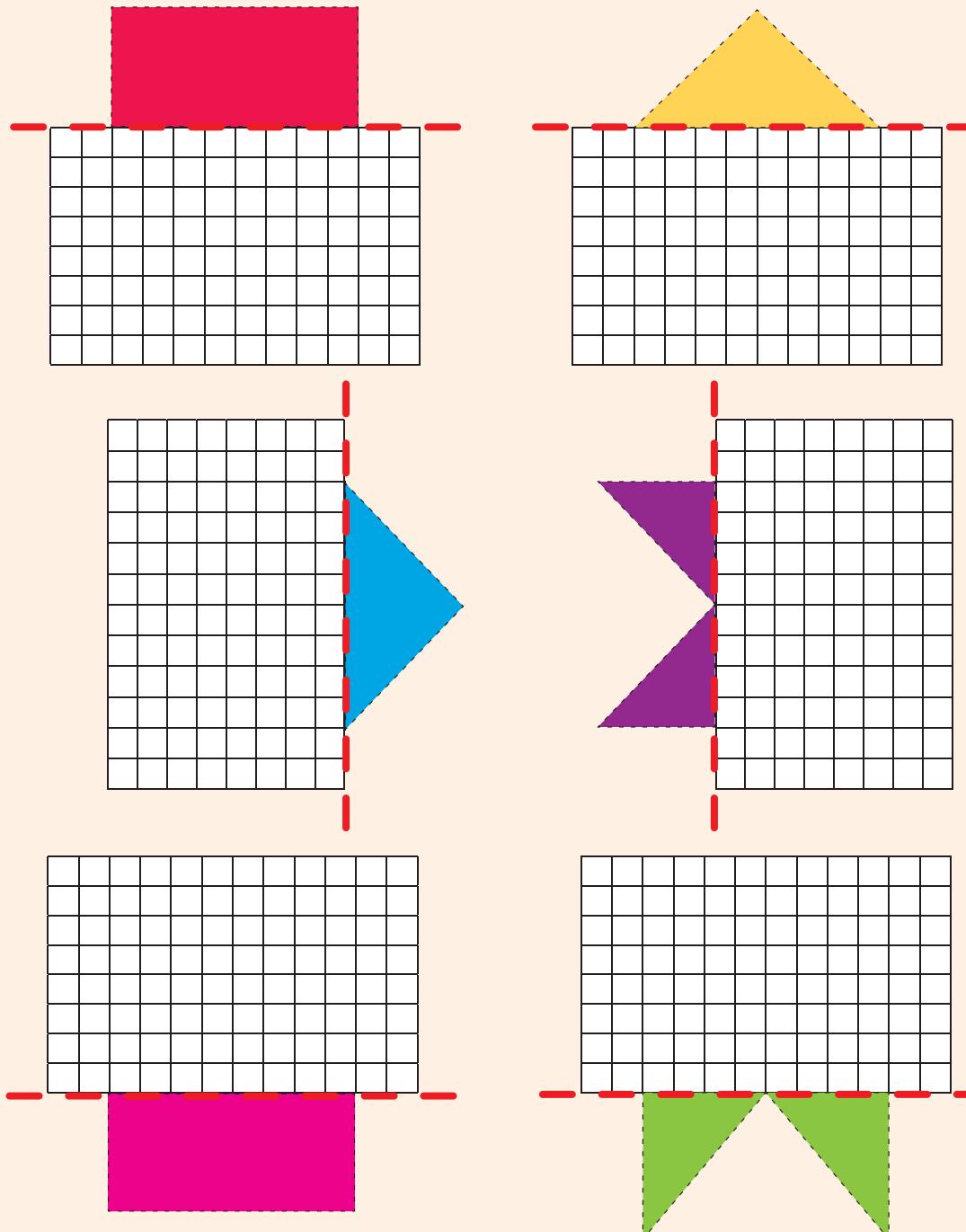
8

9

10



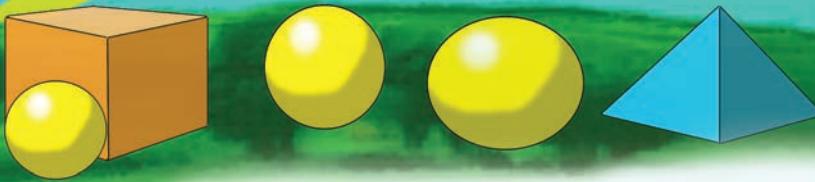
Gwala enye ihafu yelinye nelinye ijamo.
Sebenzisa iinkwere ezincani zizokusiza.



Zoke zinamahlangothi ayindulunga anqophileko.



12



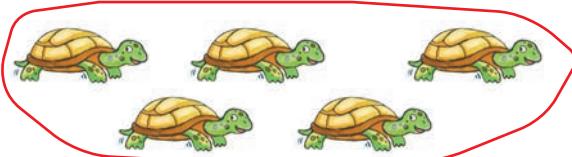
Amabuthelelo wangakuhlanu bekufike ema - 20



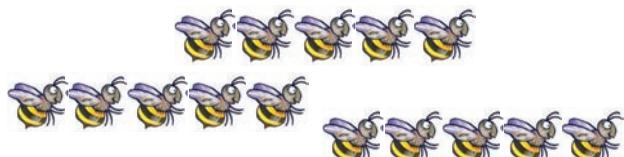
Gwala iiyungi ukwaka amabuthelelo wangakuhlanu.
Unamabuthelelo wangakuhlanu amangaki?

Ithemu 4

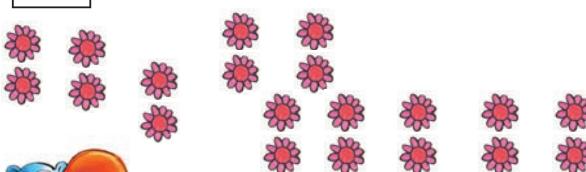
Ibuthelelo eli- langaku - 5



amabuthelelo wangaku - 5



amabuthelelo wangaku - 5



amabuthelelo wangaku - 5



Bala inani lemino. Tlola phasi ipendulo yakho.



$$5 + 5 + 5 =$$



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



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



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



96

0

1

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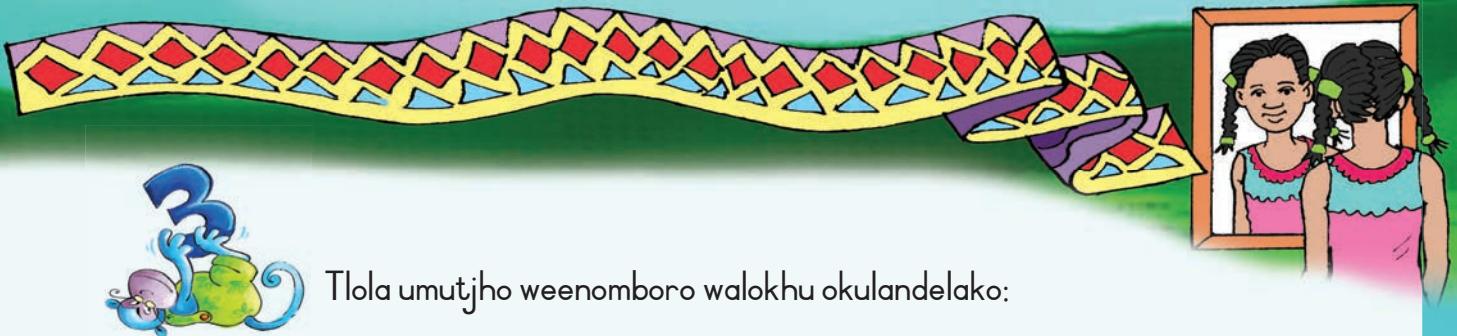
6

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Tlola umutjho weenomboro walokhu okulandelako:

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



Phendula imibuzo.



Qedelela ngeenomboro ezilandelako.

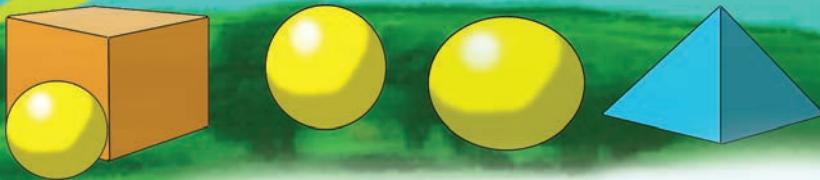
Ubona imali yesimbi
eziinsende eziyi -5c
engangani?

Tlola ipendulo yakho
ngomutjho weenomboro.



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

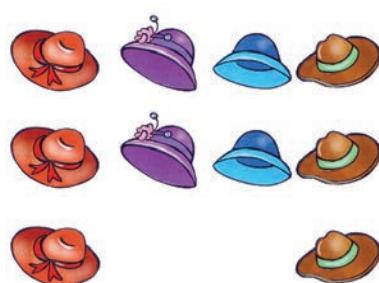
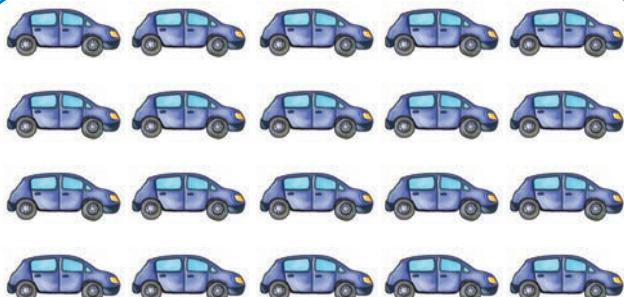
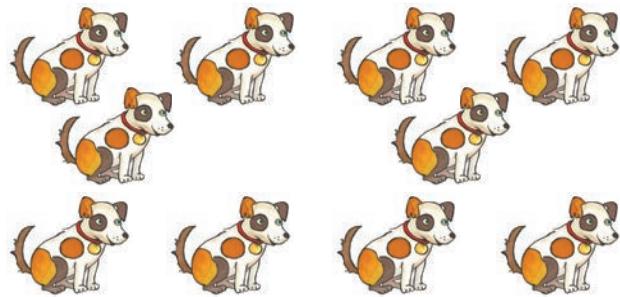
113



Okuhlanu – ukuhlanganisa okubuyelelweko bekufike ema-20



Beka amabuthelelo wangakuhlanu bese utbole umutjho weenomboro.



Gwala amabuthelelo wamajamo ukutjengisa imitjho yeenomboro.

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

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



98

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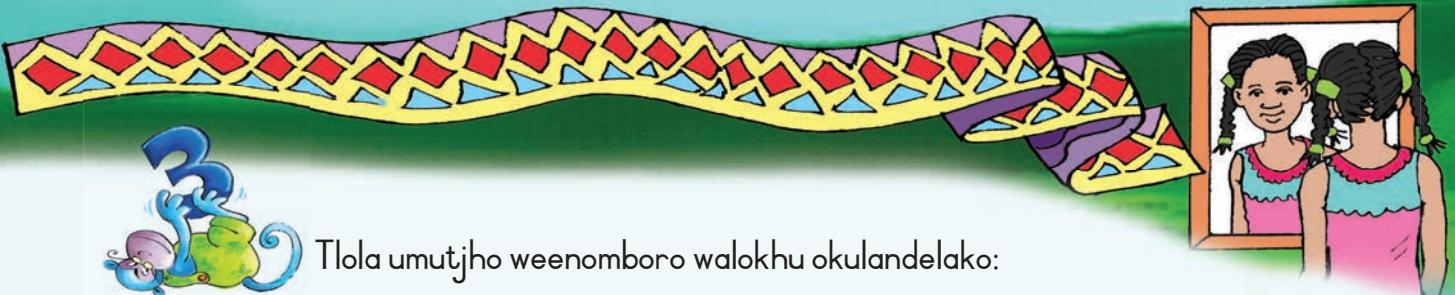
6

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Tlola umutjho weenomboro walokhu okulandelako:



<input type="text"/>								
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$5 + 5 =$

<input type="text"/>																					
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<input type="text"/>																					
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<input type="text"/>																					
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Uzibala kangaki iinomboro ezhlanu? _____

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

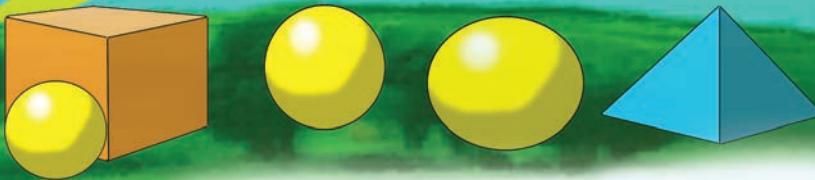


Emafesidereni kunezandla ezi -3. Mimino emingaki efesidereni?

Gwala isithombe bese utole umutjho weenomboro.



14



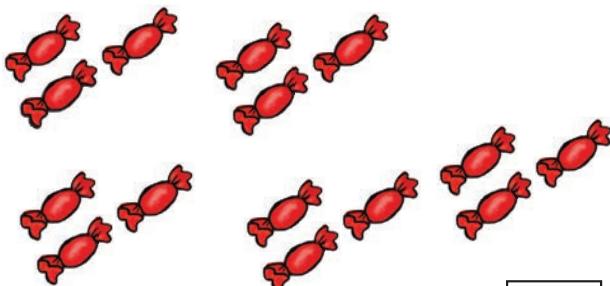
Ithemu 4

Ukwahlukaniselana bekufike ema -20

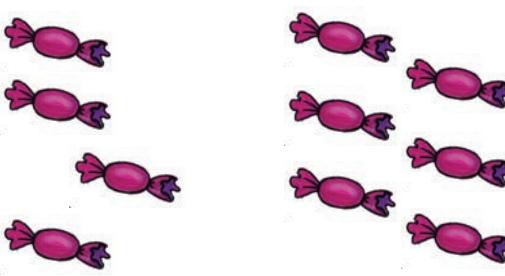


Yabela abangani abahlanu amaswidi.

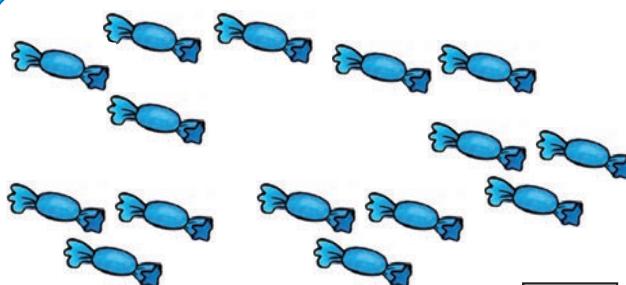
Umngani ngamunye uzokufunyana amaswidi amangaki?



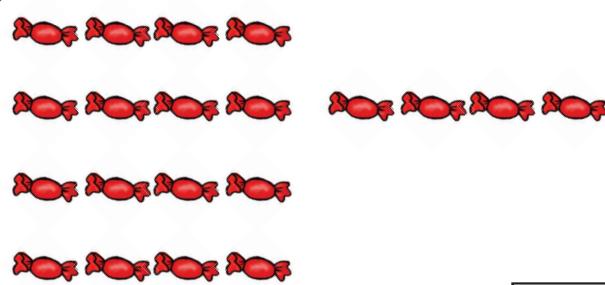
Umngani ngamunye uzokufunyana
amaswidi.



Umngani ngamunye uzokufunyana
amaswidi.



Umngani ngamunye uzokufunyana
amaswidi.



Umngani ngamunye uzokufunyana
amaswidi.

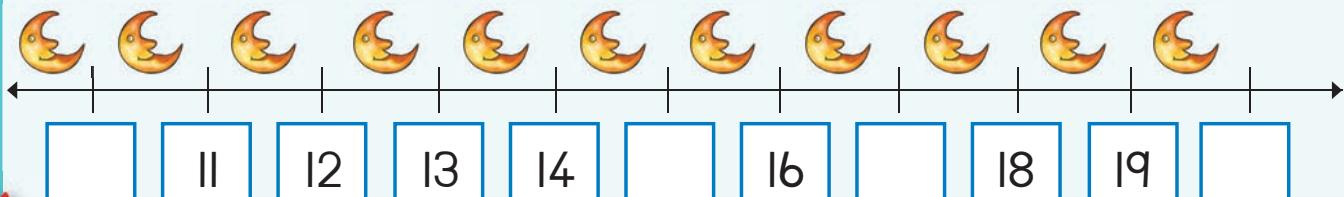


Umngani ngamunye uzokufunyana amaswidi.

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



Qedelela ngeenomboro ezitlhayelako.



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Yenza umgwalo ukutjengisa okulandelako.
Ingabe zikhona iimbalisi eziseleko?

Yabela abentwana abahlanu iimbalisi ezili-10.

Kusele iimbalisi .

Yabela abentwana abahlanu iimbalisi ezili-10.

Kusele iimbalisi .

Yabela abentwana abahlanu iimbalisi ezili-II.

Kusele iimbalisi .

Yabela abentwana abahlanu iimbalisi ezili-16.

Kusele iimbalisi .



Tlola umutjho weenomboro walokhu okulandelako:



$$5 + 5 =$$









Teacher:

Sign:

Date:

11

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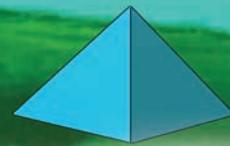
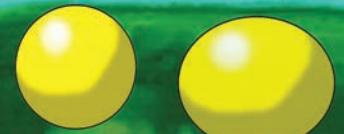
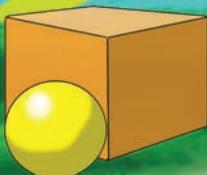
18

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115



Ithemu 4

Amaphetheni weenomboro – ngakuhlanu bekufike e -100



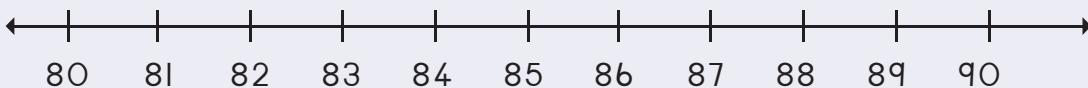
Qedelela iphetheni ngokuthi ukhalare isibuyabuyelelo sangakuhlanu.

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



Gwala amawulawubhu ukutjengisa okulandelako:

86, 88, 90



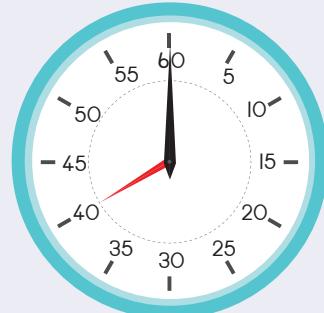
70, 75, 80



55, 60, 65, 70



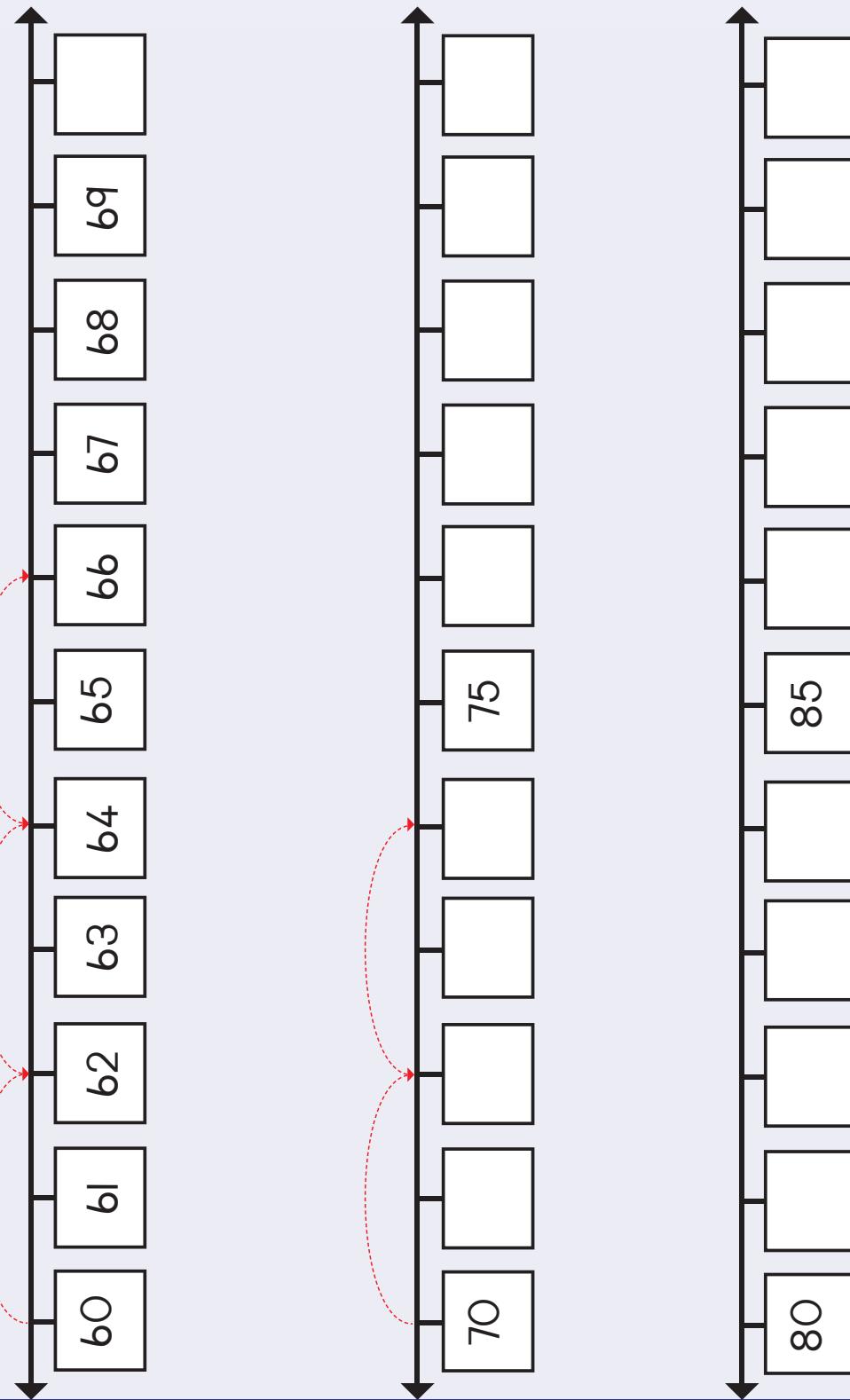
Sebenzisa iwatjhi ukutjengisa imizuzu
ebalwa ngakuhlanu.



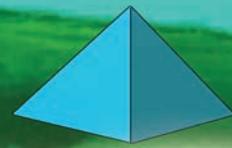
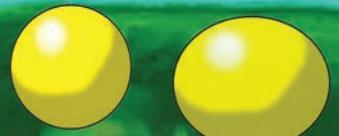
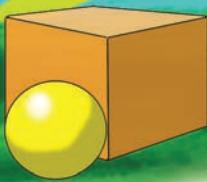
0 1 2 3 4 5 6 7 8 9 10



Beka iinomboro oziske kiboSika besi - 2 eendaweni lapha
kutlhayela khona iinomboro kumanambalayini.
Begodu uqedelele namawulawubhu.



16



Indawo nokubonakala

Ithemu 4



Madanisa ilingaphambili
kanye nelingemuva
lesilwana.

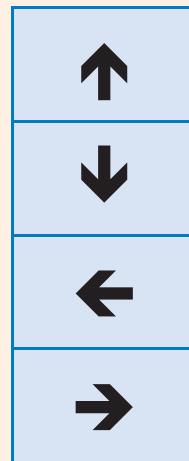
Ilingaphambili



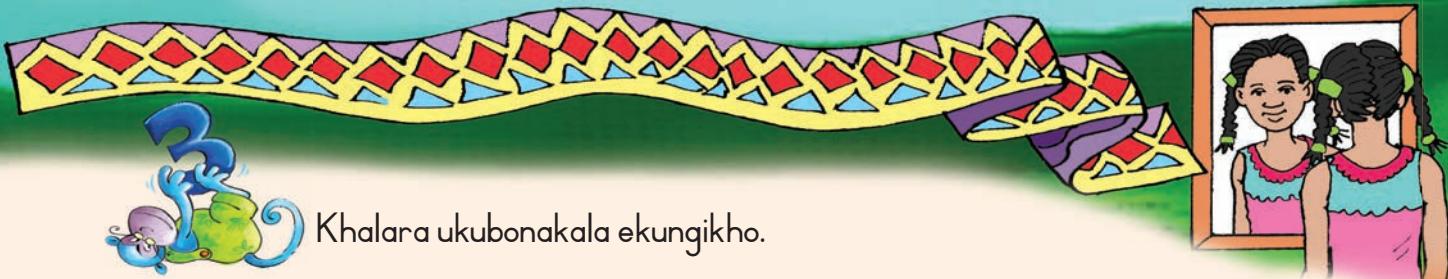
Ilingemuva



Ndulungela
umkhonto omadana
nomkhonto
ofiphaziweko.



→	←	↑	↓
↑	↓	→	←
→	←	↑	↓
↑	←	↓	→



Khalara ukubonakala ekungikho.

Ukubonakala: ngaphezulu
Ukubonakala: ngeqadi/ ngehlangothini
Ukubonakala: ngaphambili

Ukubonakala: ngaphezulu
Ukubonakala: ngeqadi/ ngehlangothini
Ukubonakala: ngaphambili

Ukubonakala: ngemuva
Ukubonakala: ngeqadi/ ngehlangothini
Ukubonakala: ngaphambili



Ukatsi ukuphi?
Khalara ipendulo enembako.

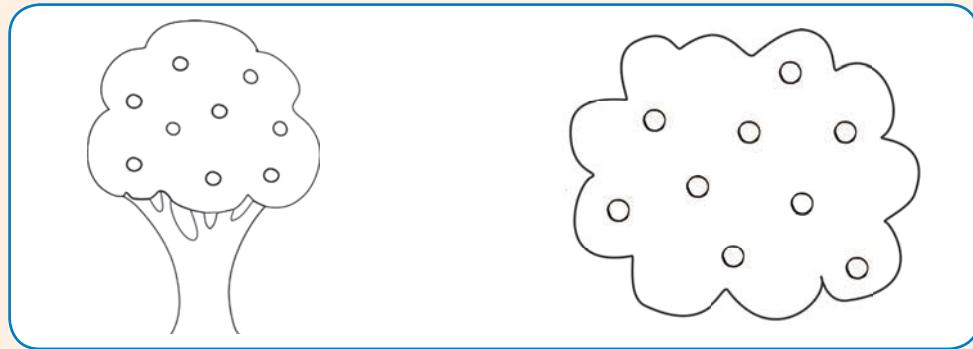
Ngemuva	Ngemuva
Ngaphambili	Ngaphambili
Eduze kwe-	Eduze kwe-

Ngemuva
Ngaphambili
Eduze kwe-

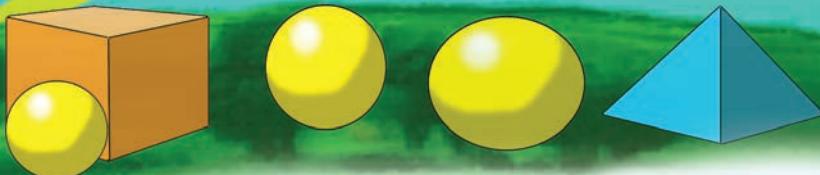
Ngemuva
Ngaphambili
Eduze kwe-



Qalisisa iinthombe
zomuthi.
Khalara ukubonakala
kwangaphezulu.



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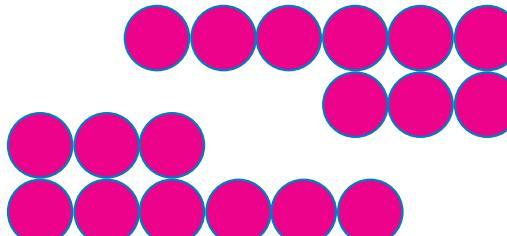
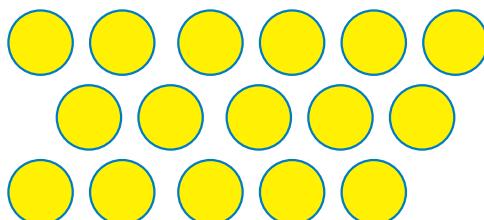
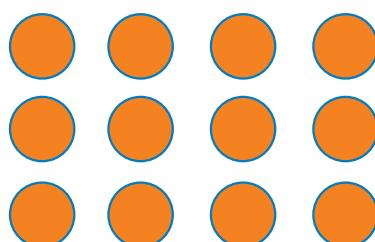
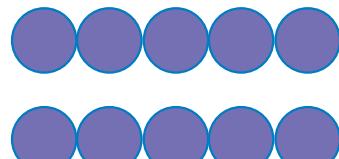
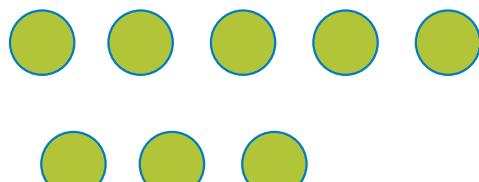
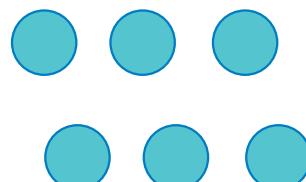


Ithemu 4

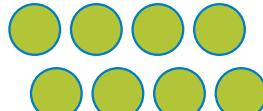
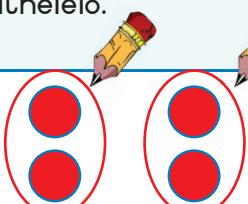
Amabuthelelo wangakubili bekufike ema-20



Beka amabuthelelo wangakubili. Tlola kobana kunamabuthelelo amangaki?



Beka amabuthelelo wangakubili. Gwala amabuthelelo.



106

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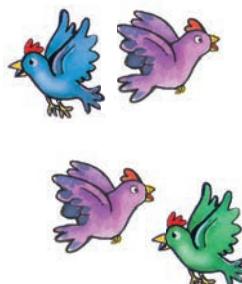
8

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Phendula imibuzo.



Kuneenyonzi ezingaki?

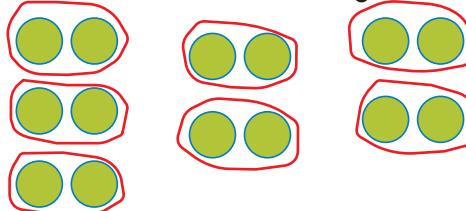
Ungabeka amabuthelelo
wangakubili amangaki?

Tlola umutjho weenomboro.

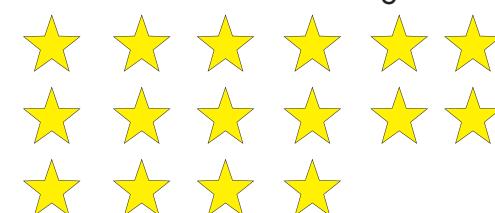


Gwala iiyungi
ukwenza
okulandelako:

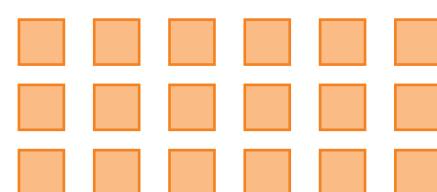
Amabuthelelo ali-7 wangaku-2



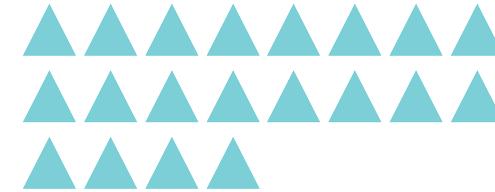
Amabuthelelo abu-8 wangaku-2



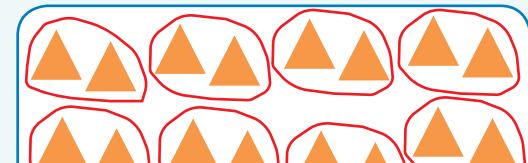
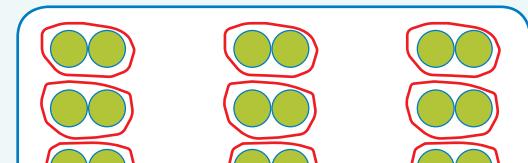
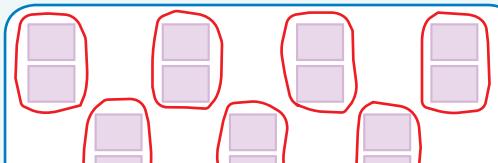
Amabuthelelo ali-9 wangaku-2



Amabuthelelo ali-10 wangaku-2



Tlola umutjho
weenomboro
walokhu
okulandelako:



Teacher:
Sign:
Date:



11

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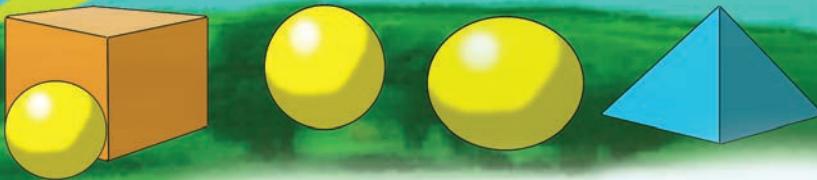
17

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18

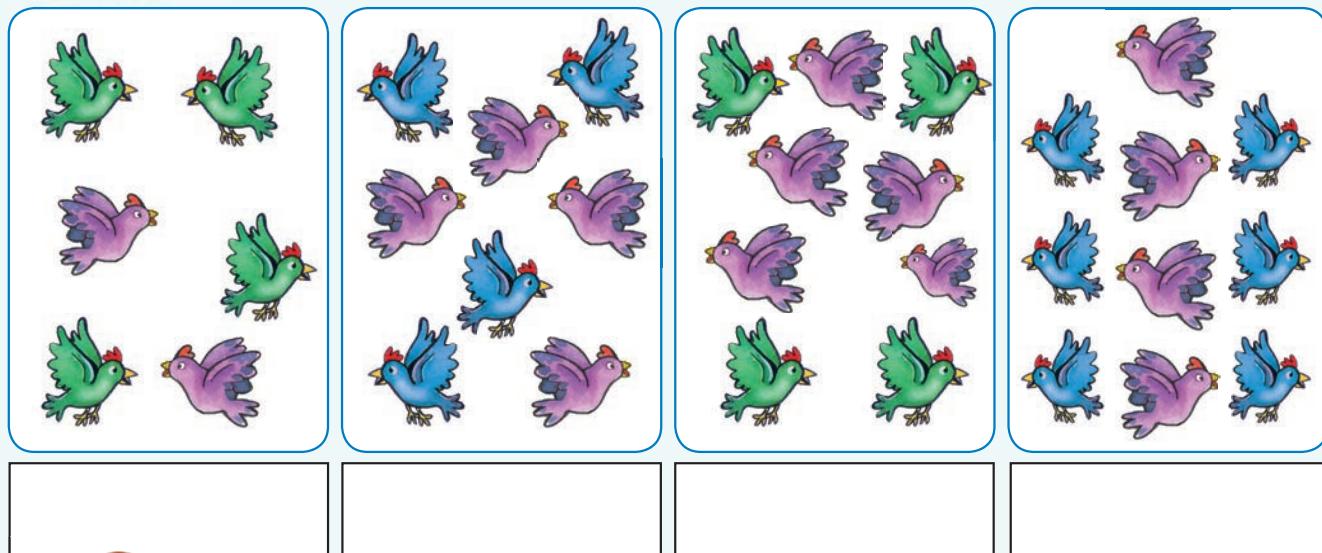


Ithemu 4

Ngakubili – ukubala okubuye lelweko bekufike ema -20



Kuneenyawo ezingaki? Gwala umutjho weenomboro wesibalo ngasinye.



Gwala amajamo walokhu okulandelako:

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



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

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

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

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



108

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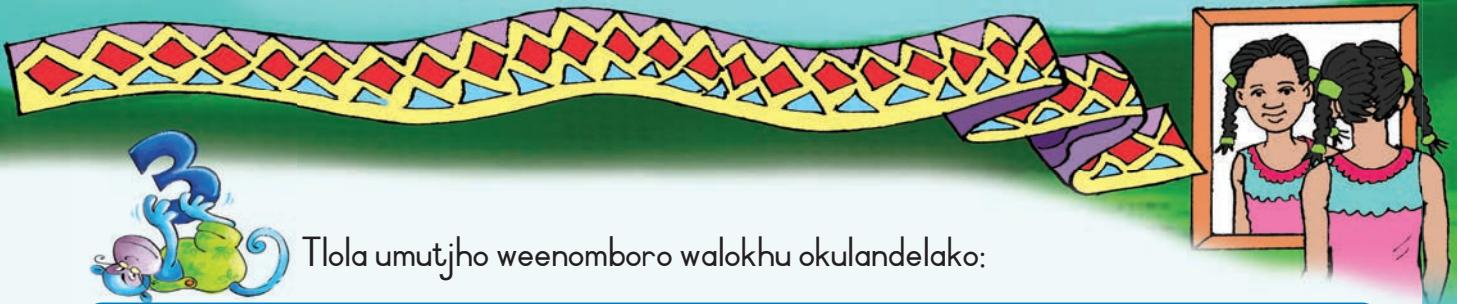
6

7

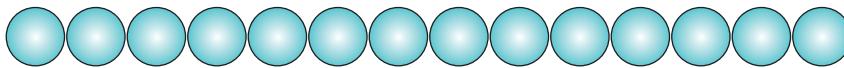
8

9

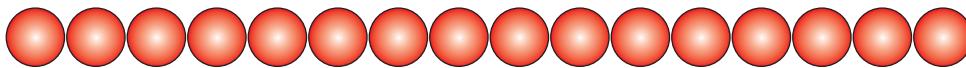
10

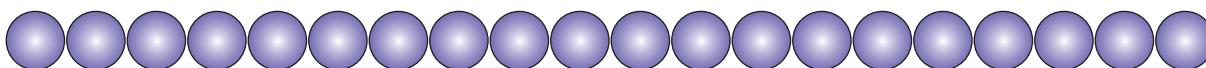


Tlola umutjho weenomboro walokhu okulandelako:



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









Khalara isibuyabuyelelo sangakubili.

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



Nginamaphakethe asi - 6 wamaswidi. Ngephaketheni ngalinye, kunamaswidi ama - 2. Nginamaswidi amangaki? Gwala isithombe bese utbole nomutjho weenomboro.

Nginamaswidi .



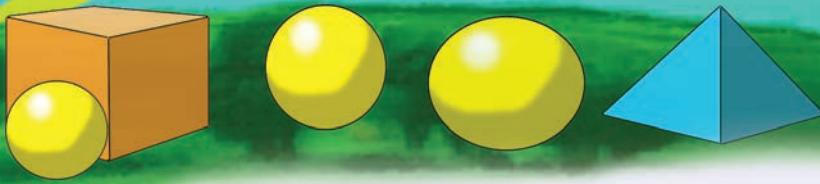
Teacher: _____

Sign: _____

Date: _____



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Ithemu 4

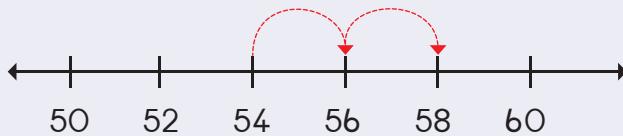


Qedelela iphetheni
ngokukhalara.

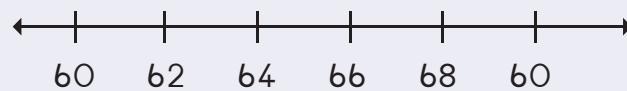


Gwala amawulawubhu ukutjengisa okulandelako:

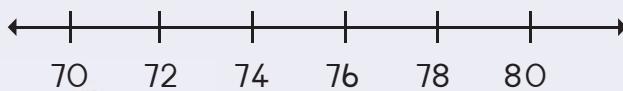
54, 56, 58



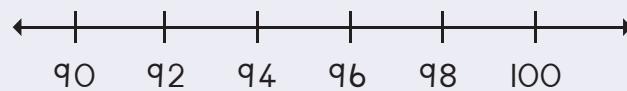
64, 66, 68



74, 76, 78



94, 96, 98

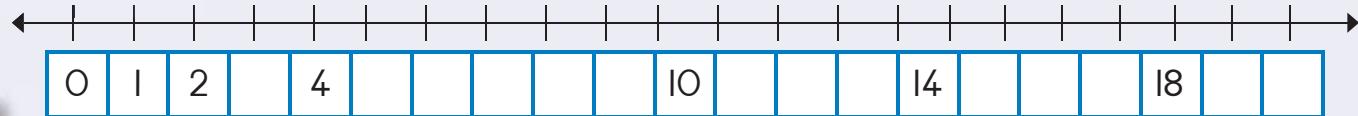


Qedelela ngeenomboro ezitlhayelako. Khalara iphetheni yeenomboro: 2, 4, ...

I			3				7			10
II							17			20



Qedelela inambalayini.



0

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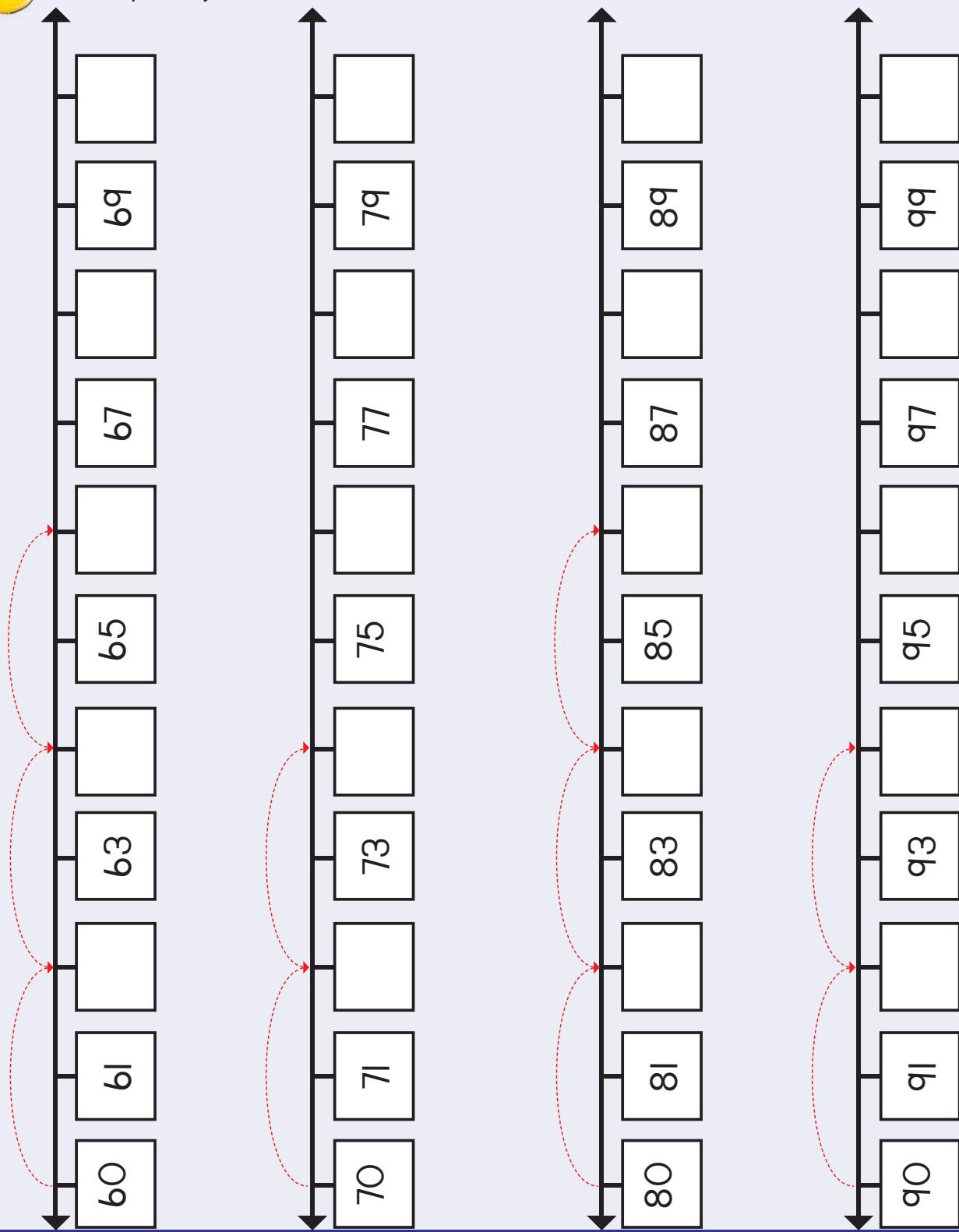
8

9

10



Sika iinomboro kibo Sika besi - 2 bese uzibeka phezu
kwenambalayini lapha kuneenomboro ezitlhayelako. Ngemva
kwalapho, uqedelele amawulawubhu.



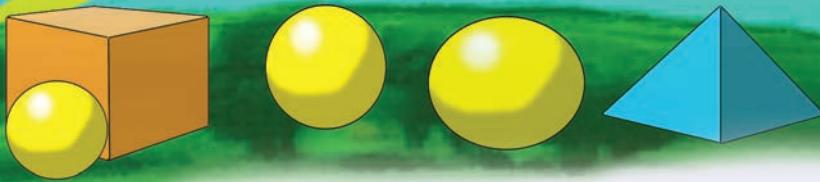
11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



I20

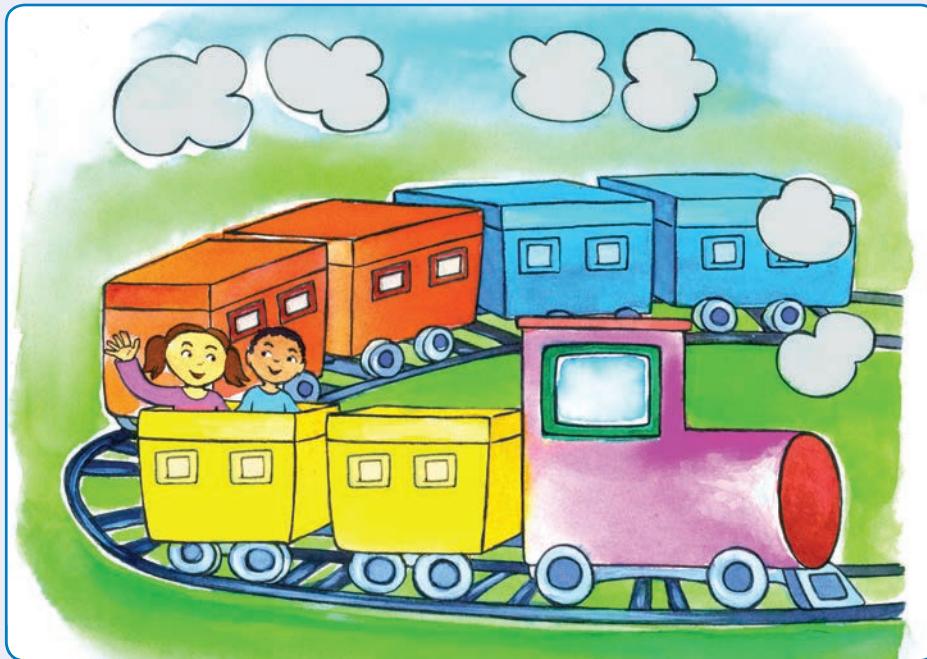


Iphetheni yeenomboro – ngakubili bekufike e -100

Ithemu 4



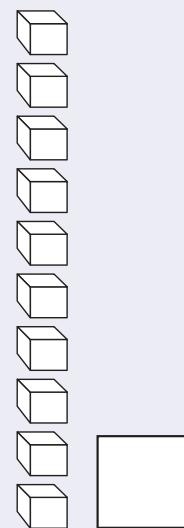
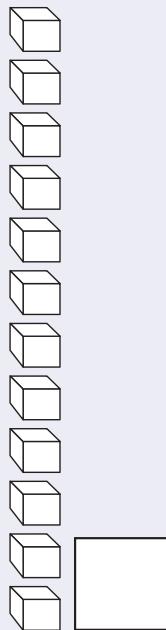
Uyayibona iphetheni yangakubili?



Khalara amabhlogo ukutjengisa amabuthelelo wangakubili.
Bala kobana kunamabuthelelo amangaki?



4



II2

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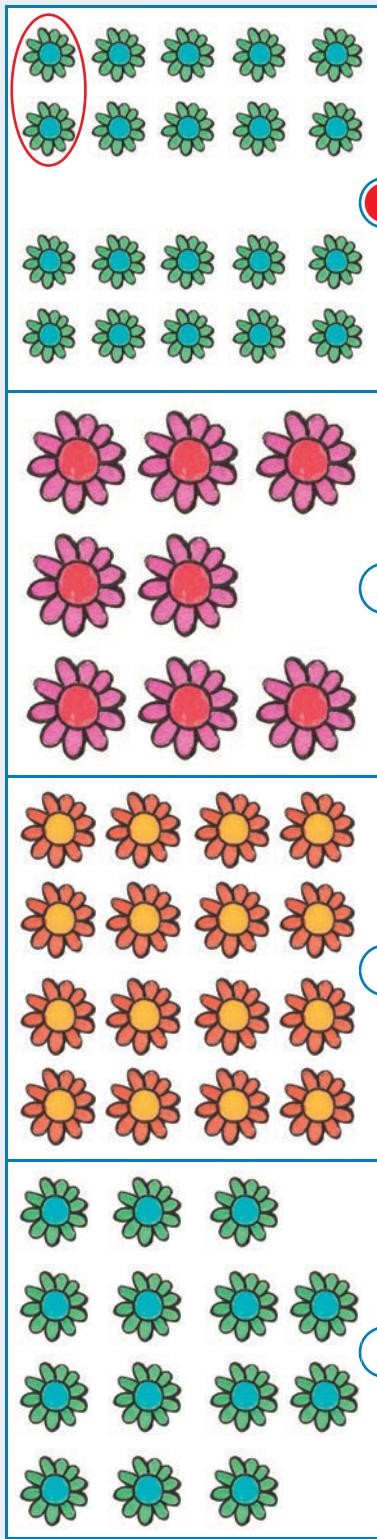
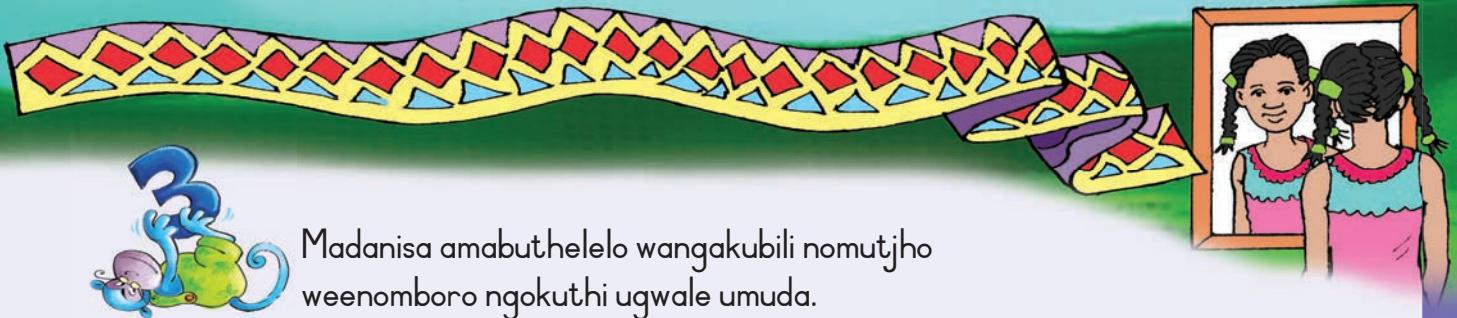
6

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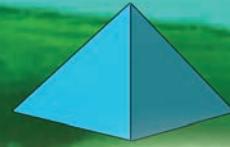
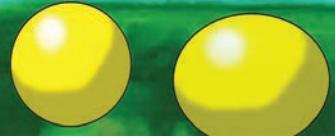
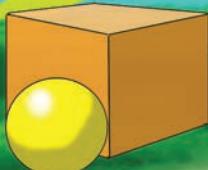


<input type="radio"/>	$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$
<input type="checkbox"/>	
<input type="triangle-down"/>	

Teacher:
Sign:
Date:



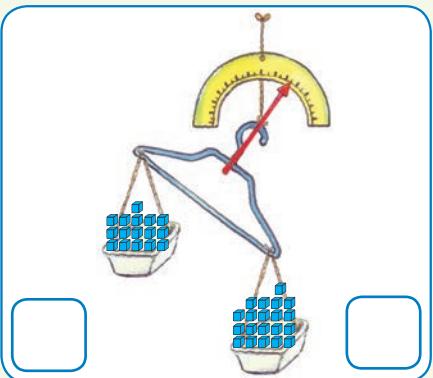
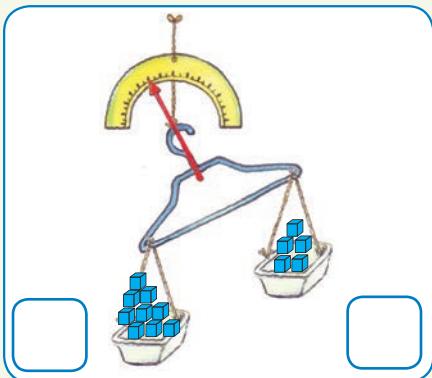
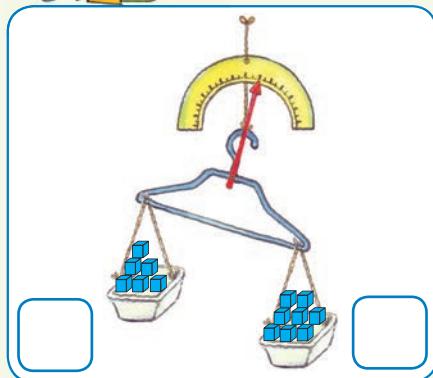
I2I



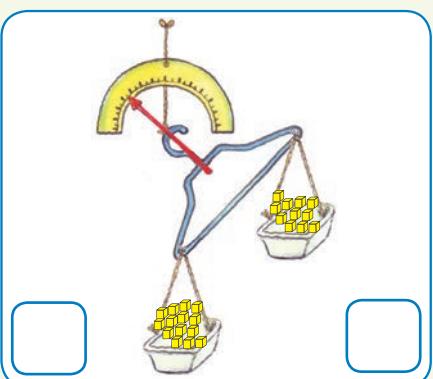
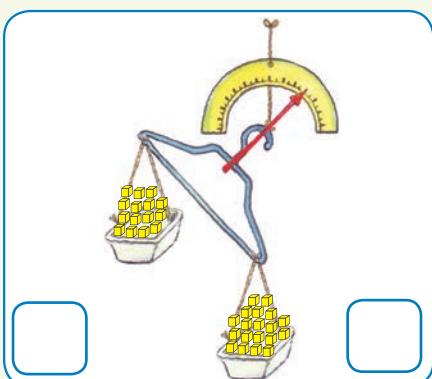
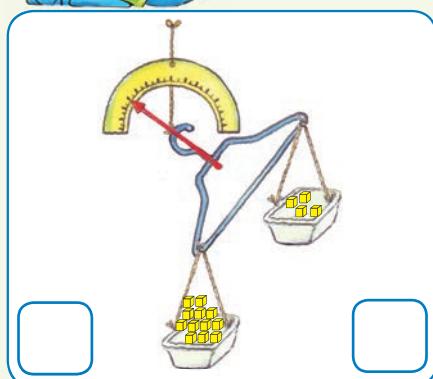
Ithemu 4



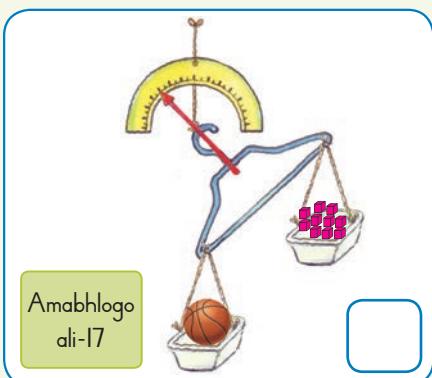
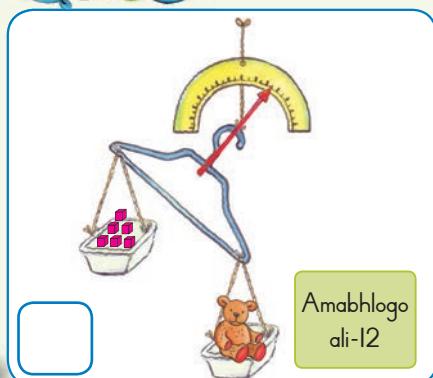
Tlola kobana mabhlogo amangaki esimumathini ngasinye.
Ndulungela isimumathi esibudisi khulu.



Tlola kobana mabhlogo amangaki asesimumathini ngasinye.
Ndulungela isimumathi esilula khulu.



Bala kobana kunamabhlogo amangaki. Bese uyabalisa kobana mabhlogo
amangaki angezelelweko azokutlhogeka ukubhalansa isidlalisi.
Yitjho kobana isidlalisi sikala ubudisi obungangani.



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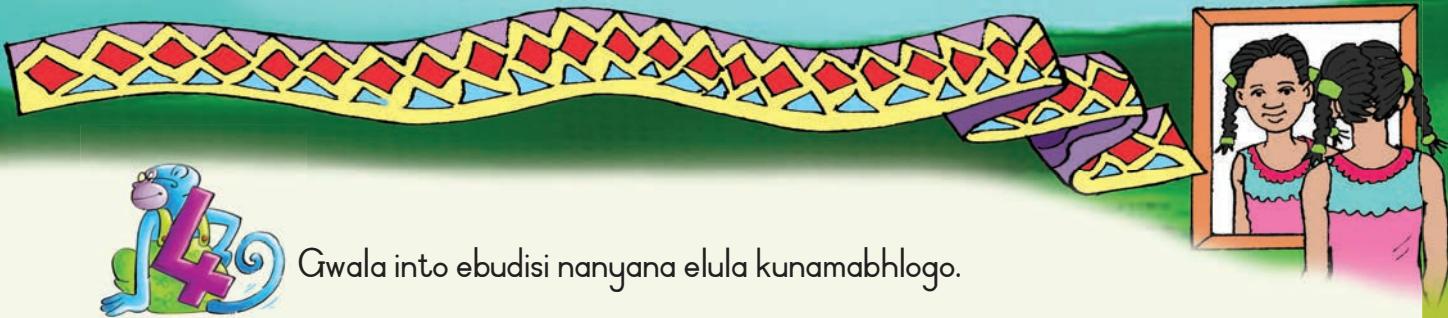
6

7

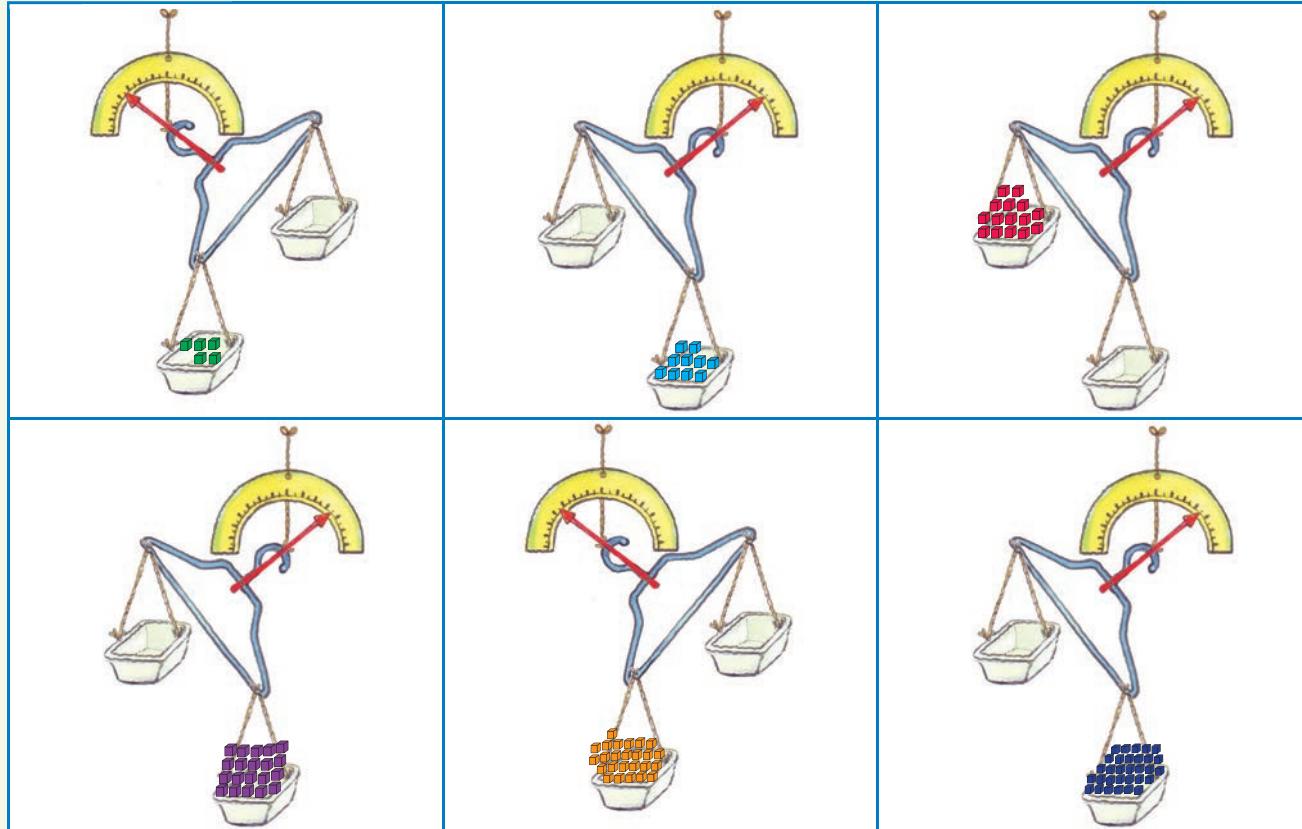
8

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Gwala into ebudisi nanyana elula kunamabhlogo.

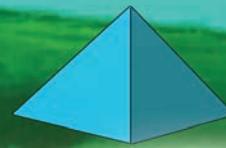
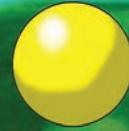
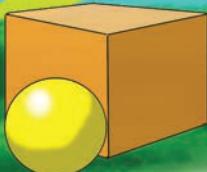


Sebenzisa izinto ezihlalu ezisedeskini lakho. Kokuthoma, linganisa kobana zikala ubudisi obungangani bese usebenzisa isikala ukubona -ke kobana ukulinganisa kwakho kuyanemba na.

Gwala into	Funisela	Imasi	Umehluko
	amabhlogo ___	amabhlogo ___	___ - ___ = ___

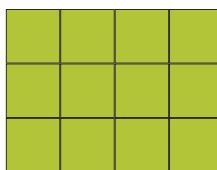


I22

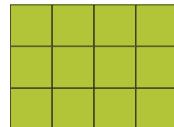
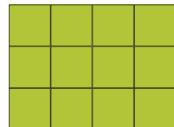


Phendula okulandelako:

Kuneenkwere ezingaki?

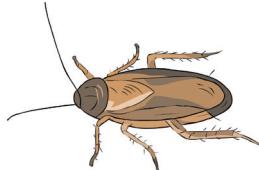


Kwanje kuneenkwere ezingaki?



Sithi i-12 nalibuyeletwe kibili ipendulo ma - 24.

Ubona imilenze emingaki?



Kwanje sele kunemilenze emingaki?



Sithi isi - 6 nasibuyeletwe kibili

Kunamasketle amangaki?



Kwanje sele kunamasketle amangaki?



Sithi i-10 nalibuyeletwe kibili ipendulo

Evekeni eyodwa kunamalanga amangaki?

Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Eemvekeni ezimbili kunamalanga

amangaki?

Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Sithi i- 7 nalibuyeletwe kibili ipendulo

Kunamakhrayoni amangaki?



Kwaje kunamakhrayoni amangaki?



Sithi u-8 nakabuyeletwe kibili ipendulo



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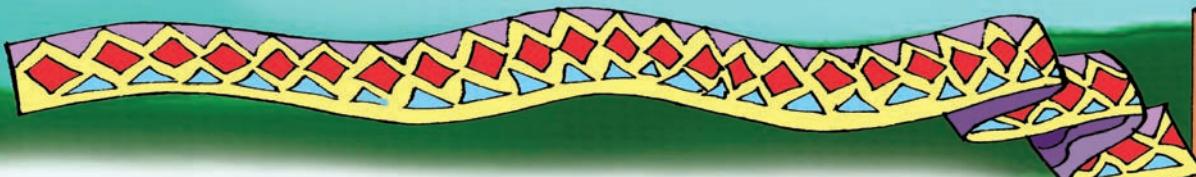
6

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10



Tlola ipendulo.

u-4 nakabuyeletwe kibili	=	8
i-10 nalibuyeletwe kibili	=	
i-11 nalibuyeletwe kibili	=	
oku-2 nakabuyeletwe kibili	=	
isi-6 nasibuyeletwe kibili	=	



Tlola ipendulo.



Okubili nakabuyeletwe kibili	okune
Okuthathu nakabuyeletwe kibili	
Okune nakabuyeletwe kibili	
Okuhlanu nakabuyeletwe kibili	
Okusithandathu nakabuyeletwe kibili	
Okulikhomba nakabuyeletwe kibili	



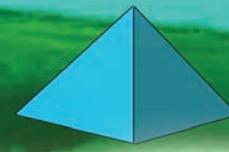
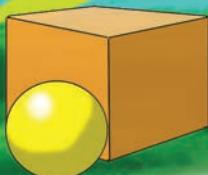
Qedelela itheyibula.



$9 + 9 + 1 =$	<input type="text"/>	nanyana	Okuli-9 nakabuyeletwe kibili + 1 =	<input type="text"/>
	<input type="text"/>	nanyana	Okubu-8 nakabuyeletwe kibili + 1 =	<input type="text"/>
$10 + 10 + 1 =$	<input type="text"/>	nanyana		<input type="text"/>
$7 + 7 + 1 =$	<input type="text"/>	nanyana	Okuli-7 okubuyeletwe kibili + 1 =	<input type="text"/>



123

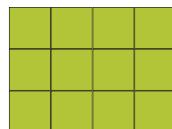
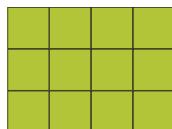


Ukuhafula

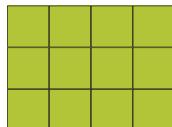


Phendula okulandelako:

Ziinkwere ezingaki?

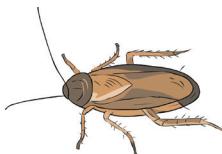
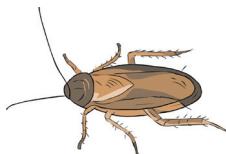


Kwanje sele ziingaki?

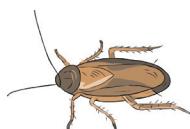


Sithi, ihafu yama - 24 li - 12.

Kunemilenze emingaki?



Kwanje sele kunemilenze emingaki?



Sithi, ihafu ye - 12

Kunamasketle amangaki?



Kwanje sele kunamasketle amangaki?



Sithi ihafu yama - 20

Malanga amangaki aseemvekeni
ezi - 2?

Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb	Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Evekeni eyodwa kunamalanga

amangaki?

Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Sithi ihafu ye - 14

Kunamakhrayoni amangaki?



Kwanje kunamakhrayoni amangaki?



Sithi ihafu ye - 16





Tlola ipendulo.

Ihafu yobu-8	=	4
Ihafu ye-10	=	
Ihafu yesi-6	=	
Ihafu ye-12	=	
Ihafu ye-14	=	



Tlola ipendulo.



Ihafu yesine	okubili
Ihafu yesithandathu	
Ihafu yokubili	
Ihafu yobunane	
Ihafu ye-10	



Tlola ipendulo.



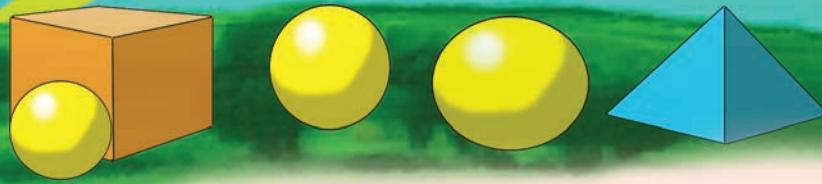
Ihafu ye-10	5
Ihafu ye-12	
Ihafu ye-14	
Ihafu ye-16	
Ihafu ye-18	



Teacher: _____
Sign: _____
Date: _____



I24

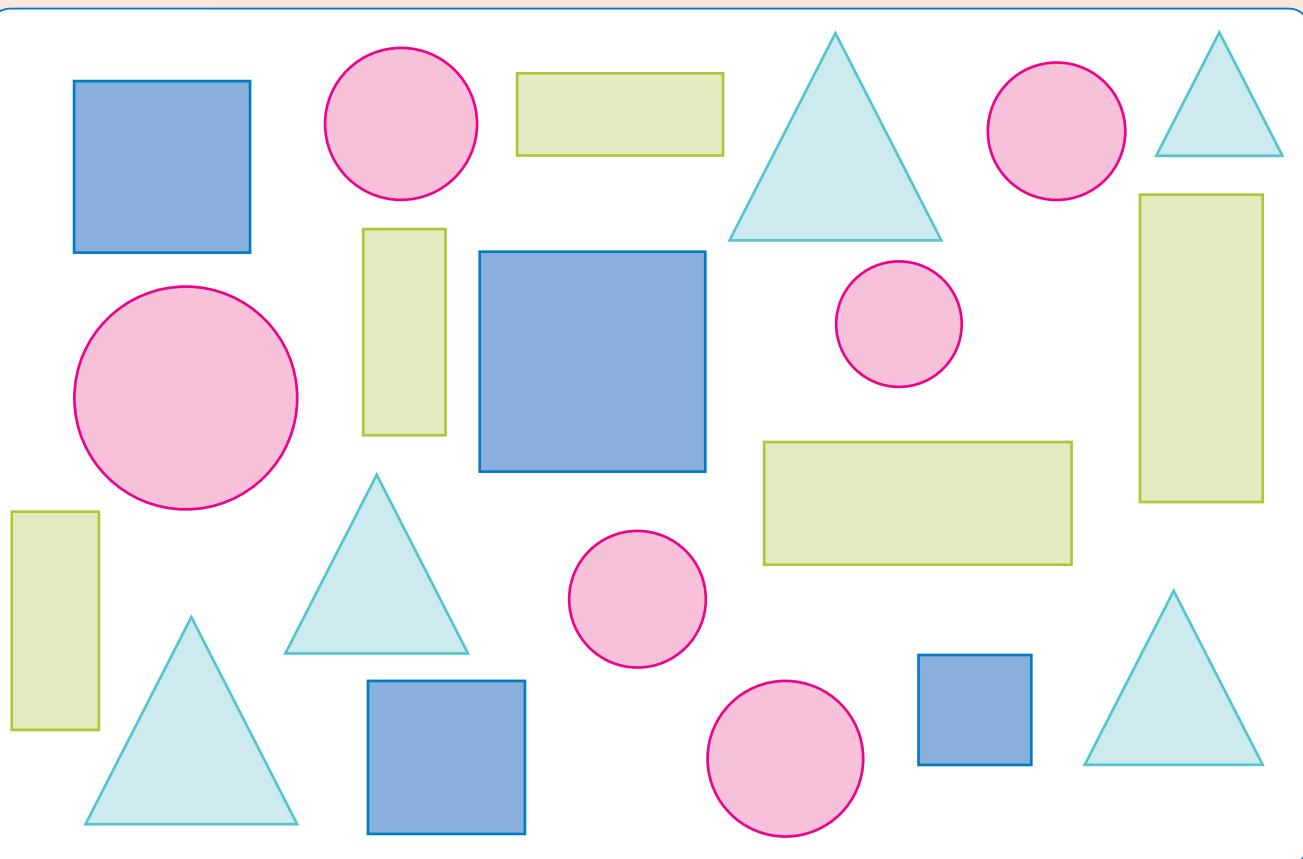


Idatha

Ithemu 4



Bala kobana kunamajamo amangaki ahlukeneko owabonako bese upendula imibuzo.

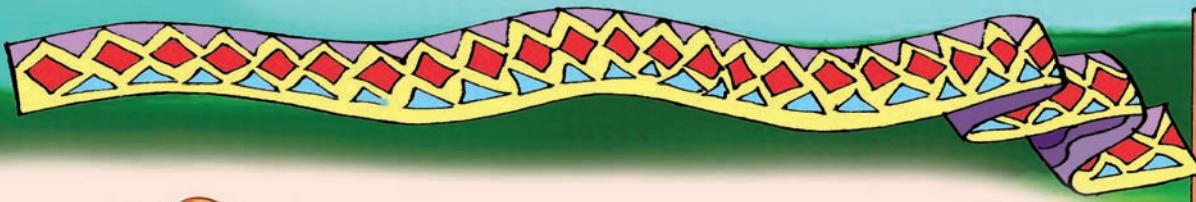


1. Ubona iinkwere ezingaki?

2. Ubona aboncantathu abangaki?

3. Ubona amarekthengela amangaki?

4. Ubona iiyngi ezingaki?



Iinthelo lezi zikhethwe bangani bakho abama - 20.
Rhemisa iinthelo bese ugwala igrafu yeenthombe zeenthelo
ozihlelileko bese uphendula imibuzo engenzasi.



Iinthelo esizithandako

Ikomba =

Istrowubheri	I-apula	Ipiyere	Ibanana	I-orentji

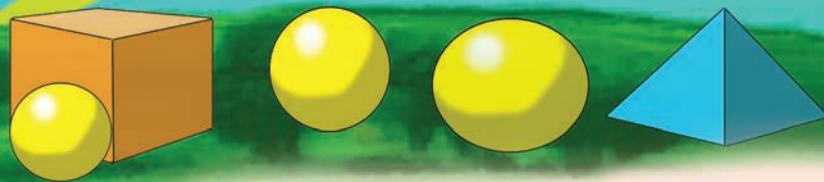
Bangaki abentwana abathanda amastrowubheri?	<input type="text"/>
Bangaki abentwana abathanda ama-apula?	<input type="text"/>
Bangaki abentwana abathanda amapiyere?	<input type="text"/>
Bangaki abentwana abathanda amabhana?	<input type="text"/>
Bangaki abentwana abathanda ama-orentji?	<input type="text"/>
Ngisiphi isithelo abentwana abasithanda khulu?	<input type="text"/>
Ngisiphi isithelo abentwana abangasithandi khulu?	<input type="text"/>



Teacher:
Sign:
Date:



I25



Enye idatha

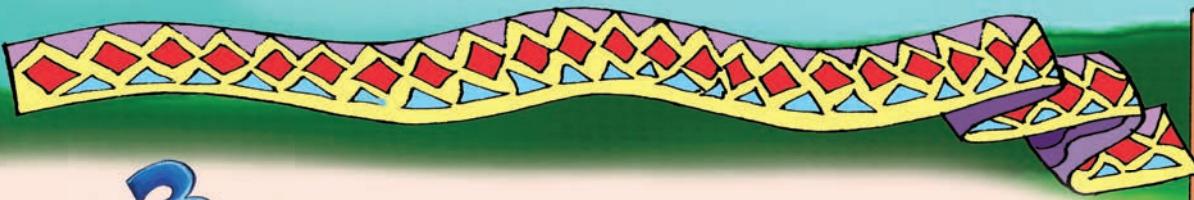


Abentwana ngetlasini baneendlalisi ezilandelako.
Unemihlobo emingaki yalokhu?



Qedelela itheyibula.

Isidlalisi	Inomboro
Abonodoli	
Amatraga	
Amabhere	
Amarobodi	

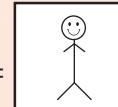


Qedelela igrafu yeenthombe ngokuthi ugwale inani
leenthombe ekungilo lomhlobo ngamunye weendlalisi.



Iindlalisi esinazo

Isikhiya =



Abonodoli	Amatraga	Amabhere	Amarobodi



Phendula imibuzo elandelako. Qalisia igrafu yeenthombe izokusiza.

Bangaki abentwana abanonodoli?	
Bangaki abentwana abanetraga?	
Bangaki abentwana abanebhore?	
Bangaki abentwana abanerobodi?	
Ngisiphi isidlalisi esithandwa khulu?	
Ngisiphi isidlalisi esingathendeki khulu?	

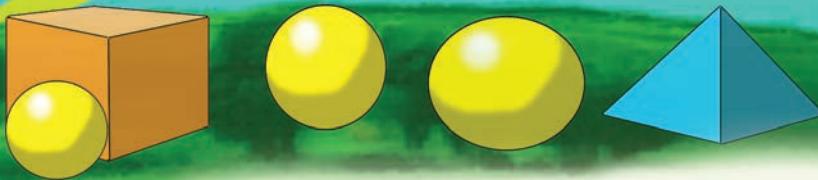


Teacher:

Sign:

Date:



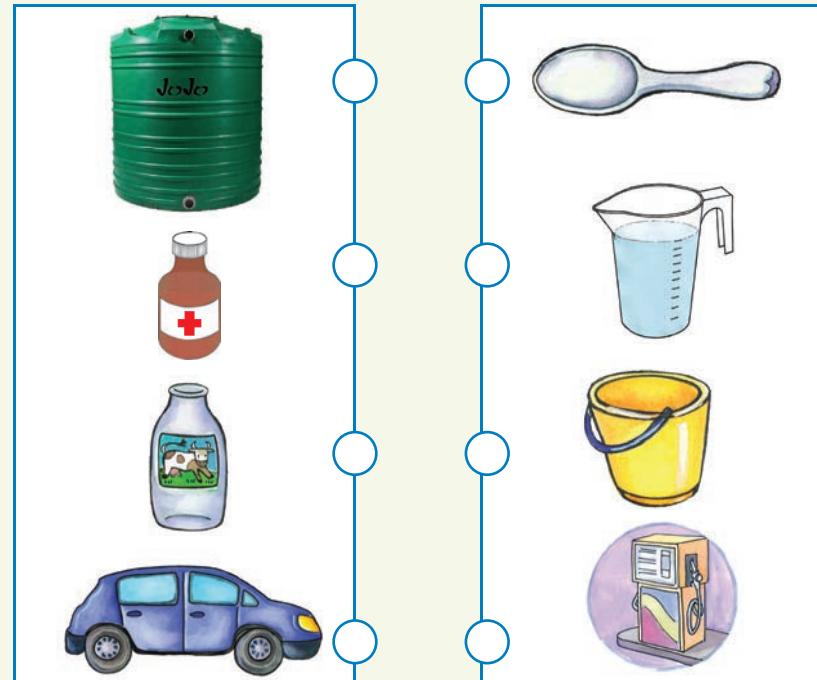


Umthamo

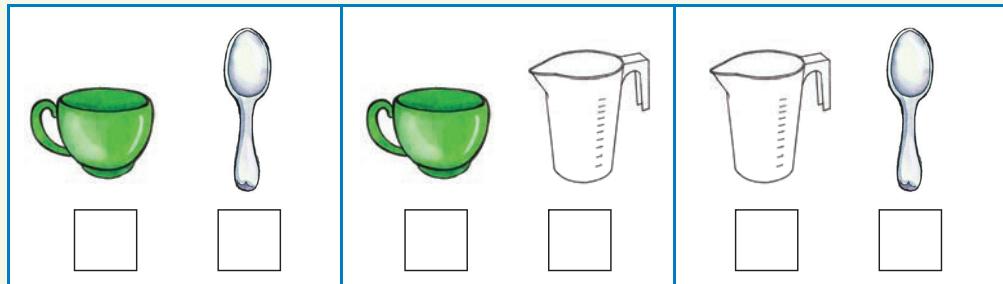
Ithemu 4



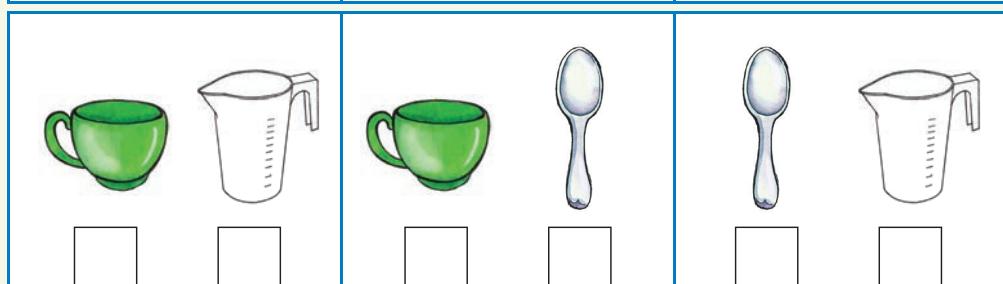
Ittelezi silimeda njani? Gwala umuda ukumadanisa into enesisetjenziswa sokumeda ekungiso.



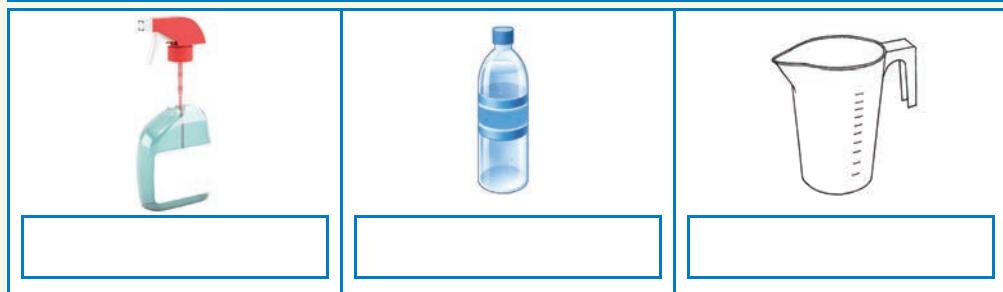
Thika isimumathi esizokuba nokuncani.

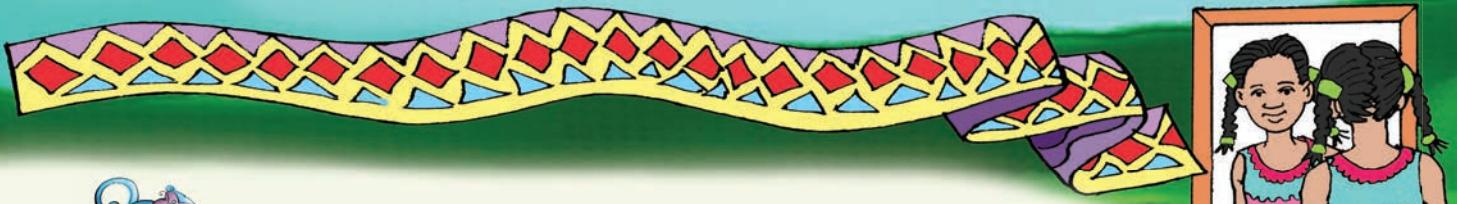


Thika isimumathi esizokuba nokunengi.

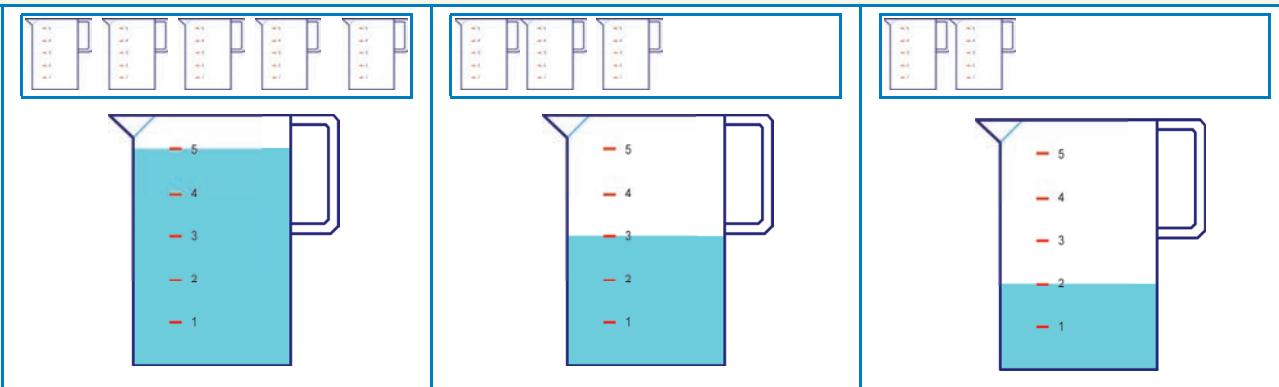


Ingabe iiumathi zizele nanyana azinalitho?





Utlhoga amakopi amahlanu ukuzalisa ijego. Uzokutlhoga amanye amakopi amangaki ukuzalisa amanye amajege amabili? Gwala amakopi lawo.



Khalara inani elinembako lamanzi.

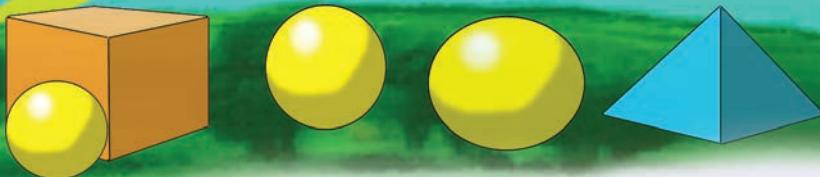
			<input type="text"/>
			<input type="text"/>
			<input type="text"/>



Teacher:
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Date:



I27

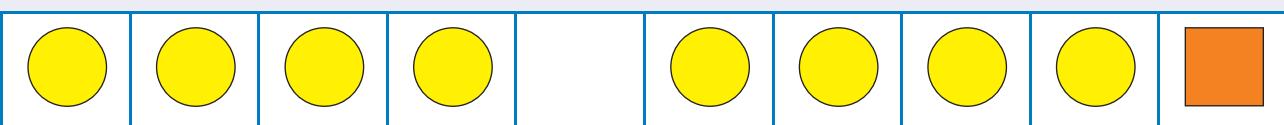
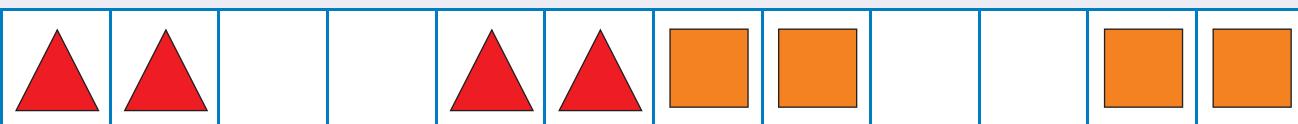
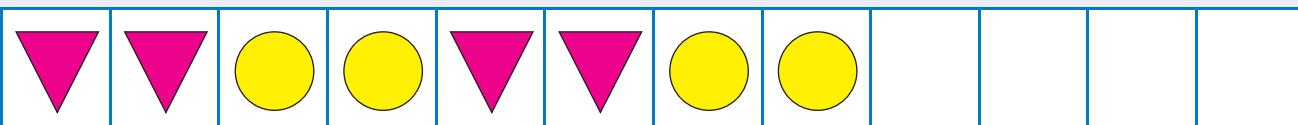
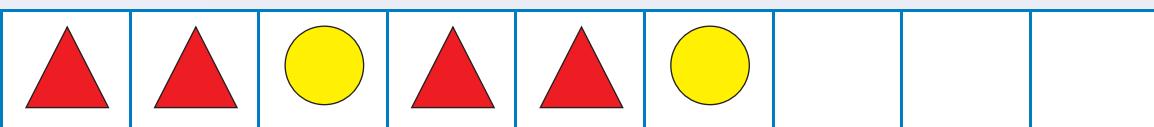


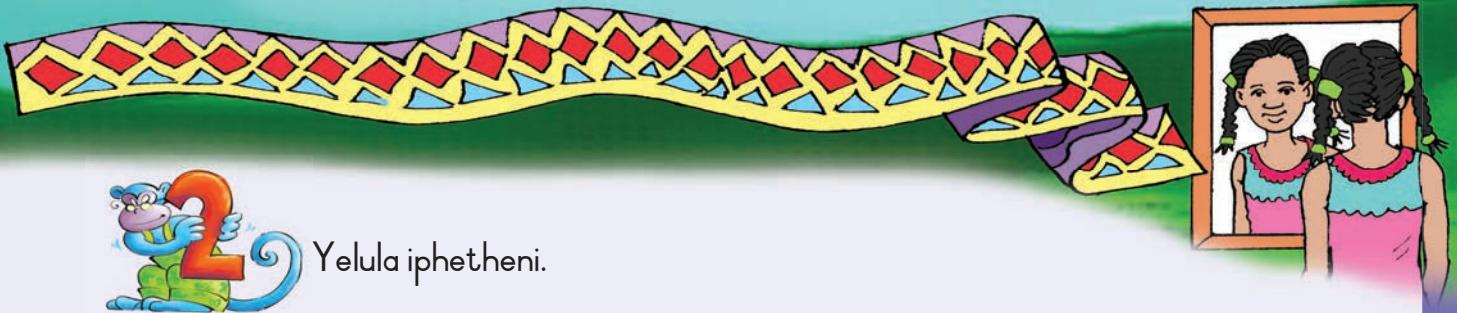
Ithemu 4



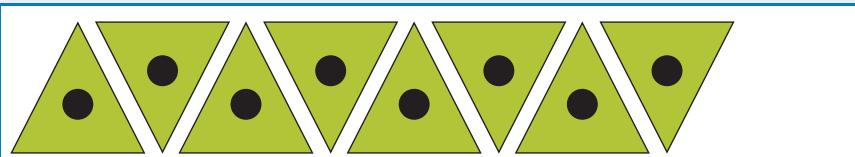
Qedelela amaphetheni.

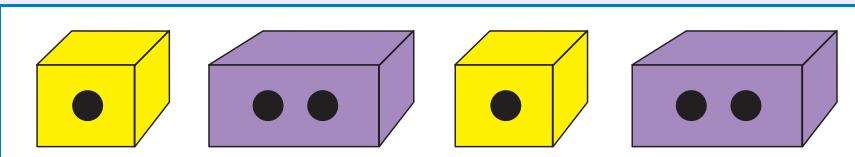
Amaphetheni wejiyomethri

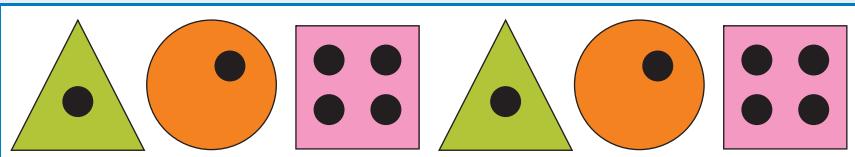


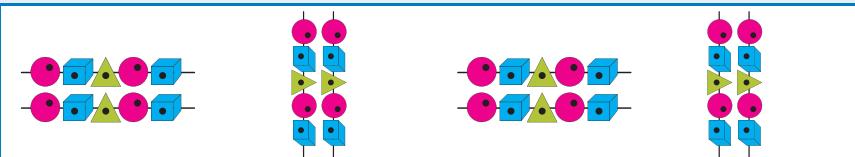


Yelula iphetheni.











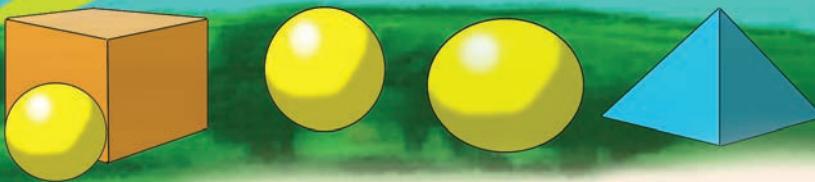
Zenzele wakho amaphetheni usebenzise iijingi, iinkwere naboncantathu.



Teacher:
Sign:
Date:



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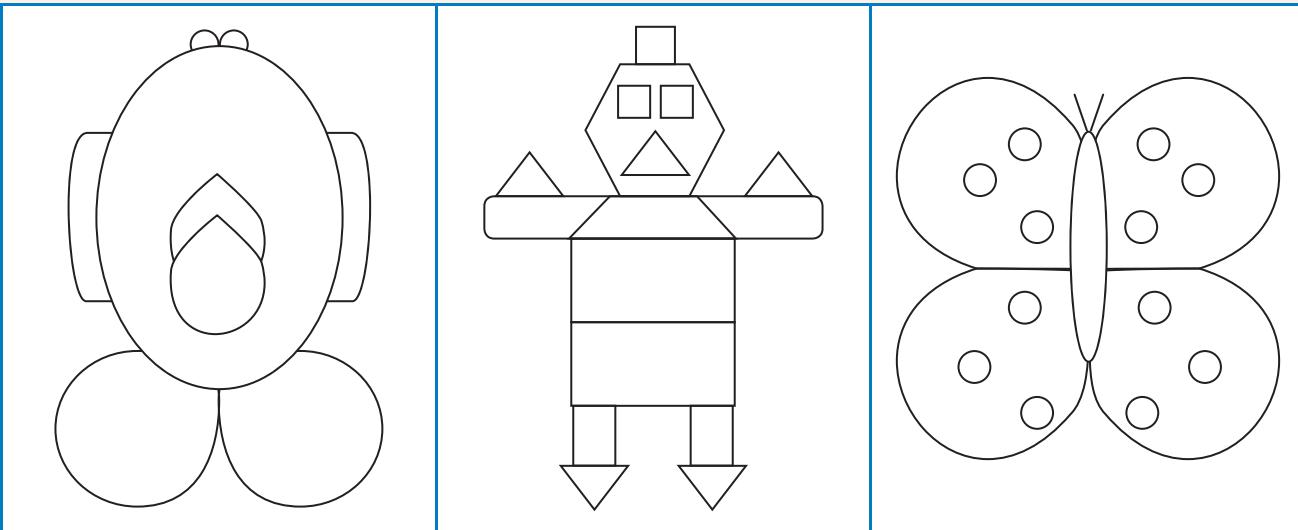


Isimethri/Ukubandeka -bulingana

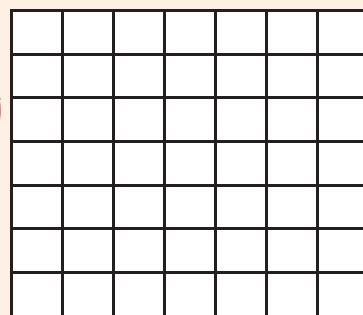
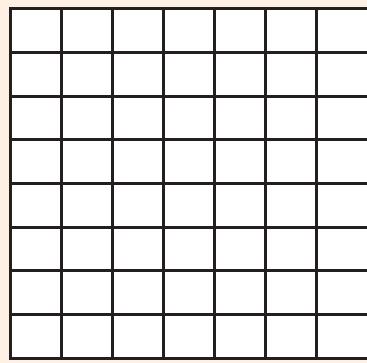
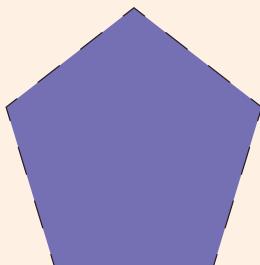
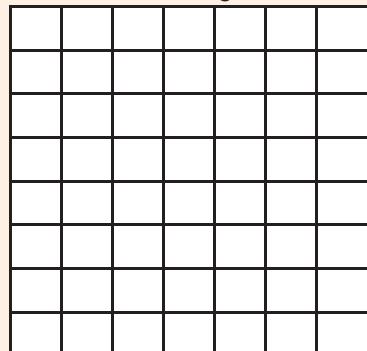
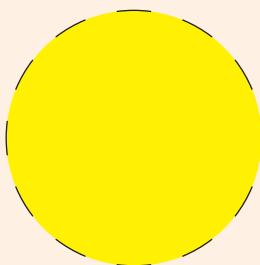
Ithemu 4



Gwala umuda ozokwehlukanisa isithombe sibe neengceny eziimbili ezilinganako.
Khalara ihafu eyodwa yesithombe ngasinye.



Kopulula amajamo alandelako bese ugwala umuda ozokutjengisa
ukubandeka -bulingana.



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0

1

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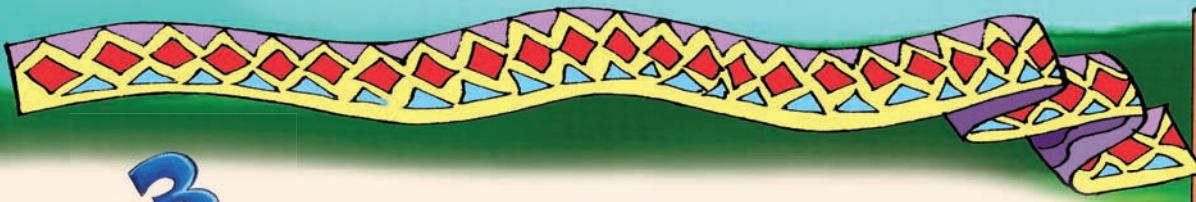
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7

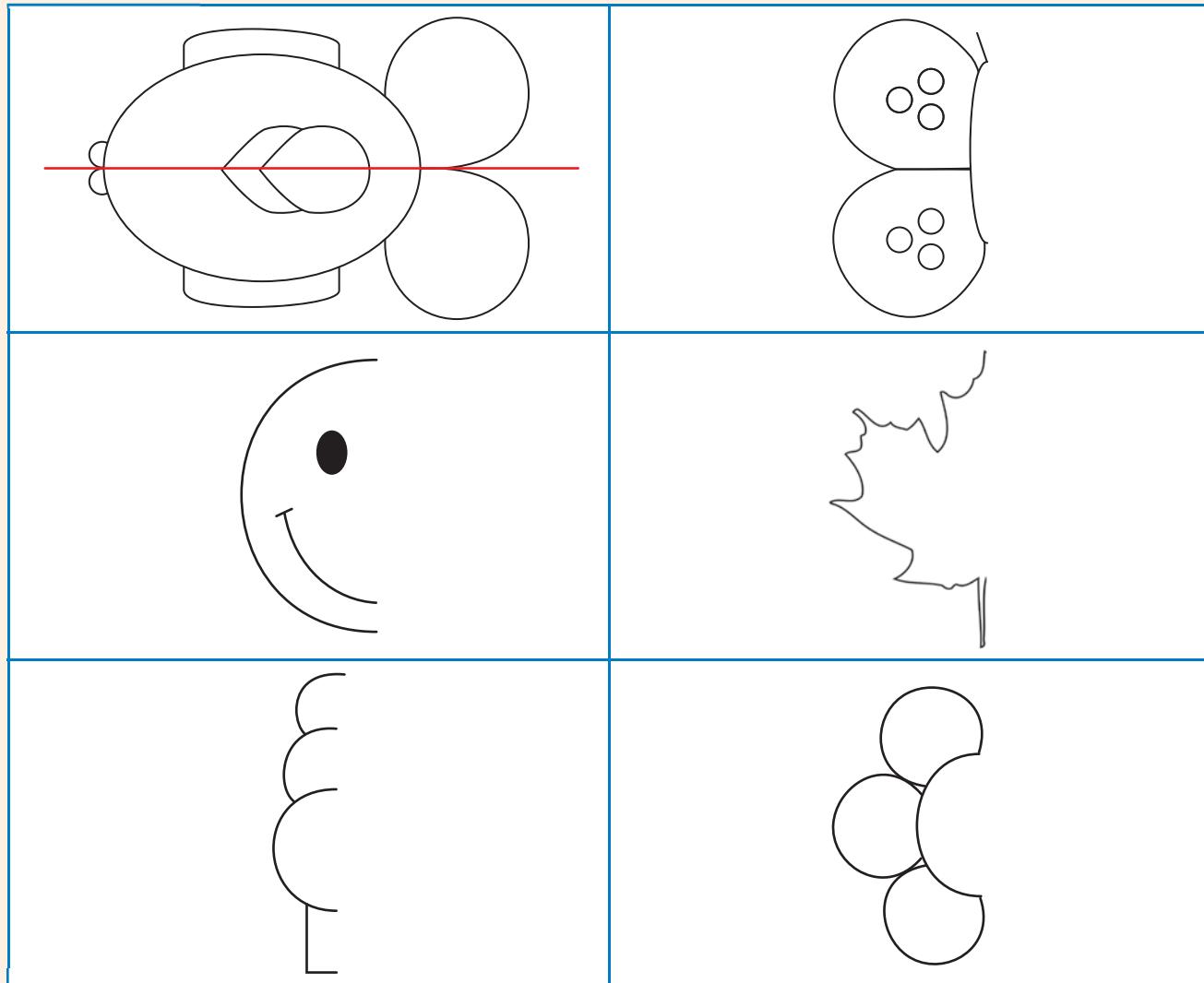
8

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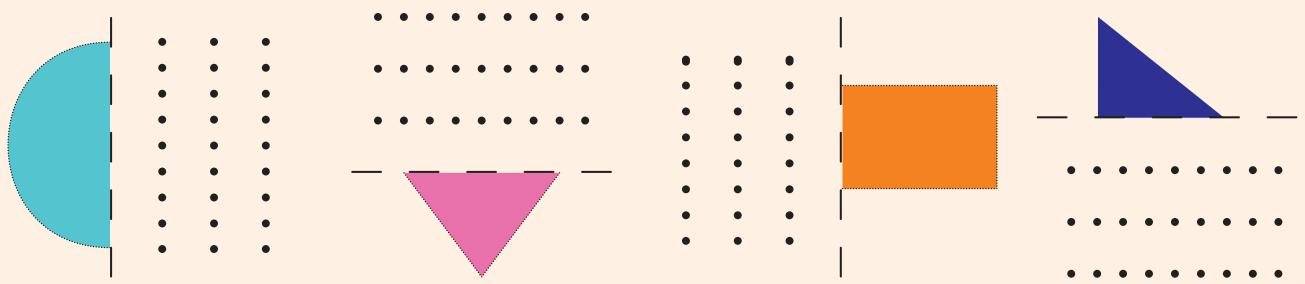
10



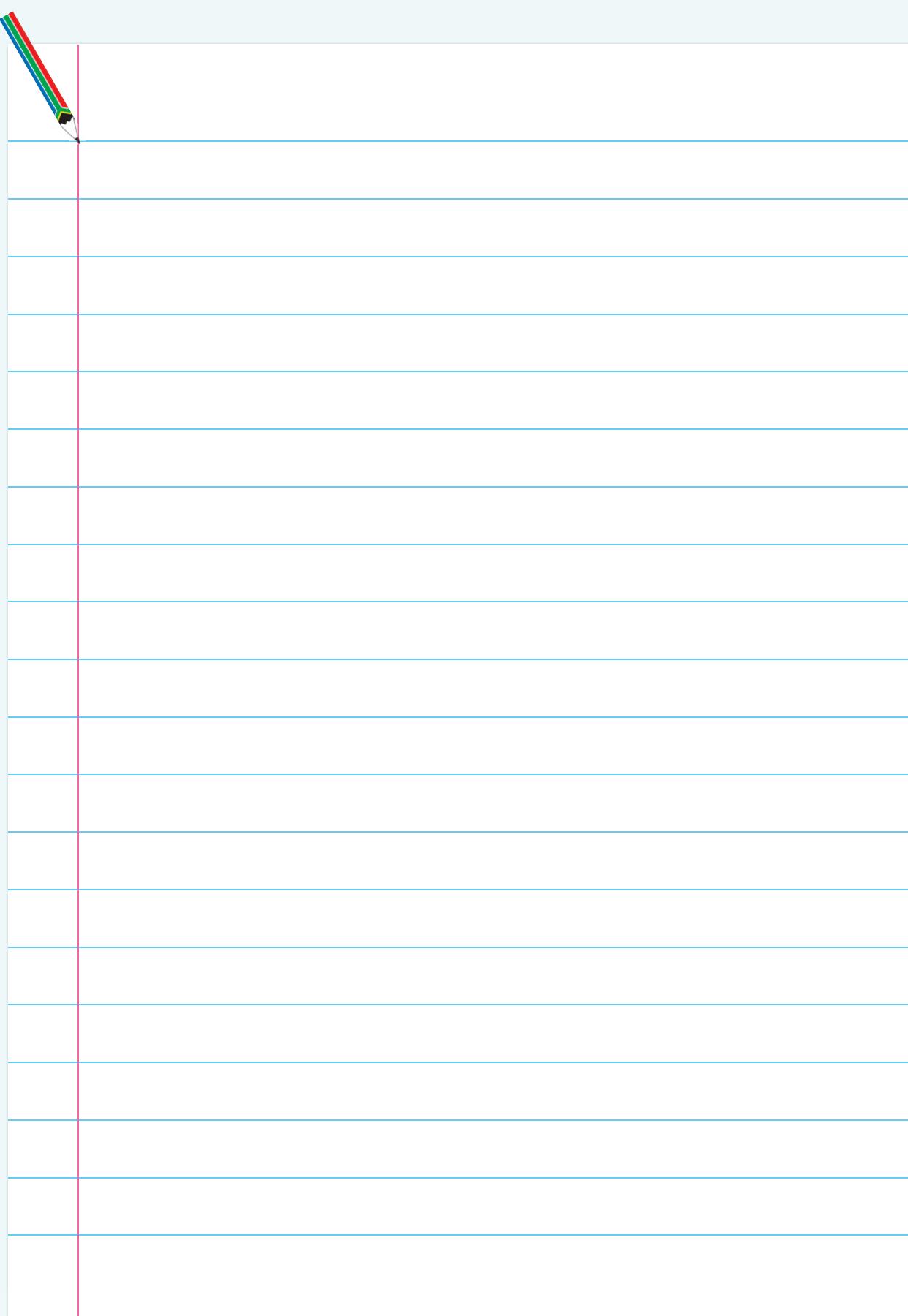
Qedelela isithombe ngokuthi ugwale enye ihafu efana
patsi nale enikelweko.



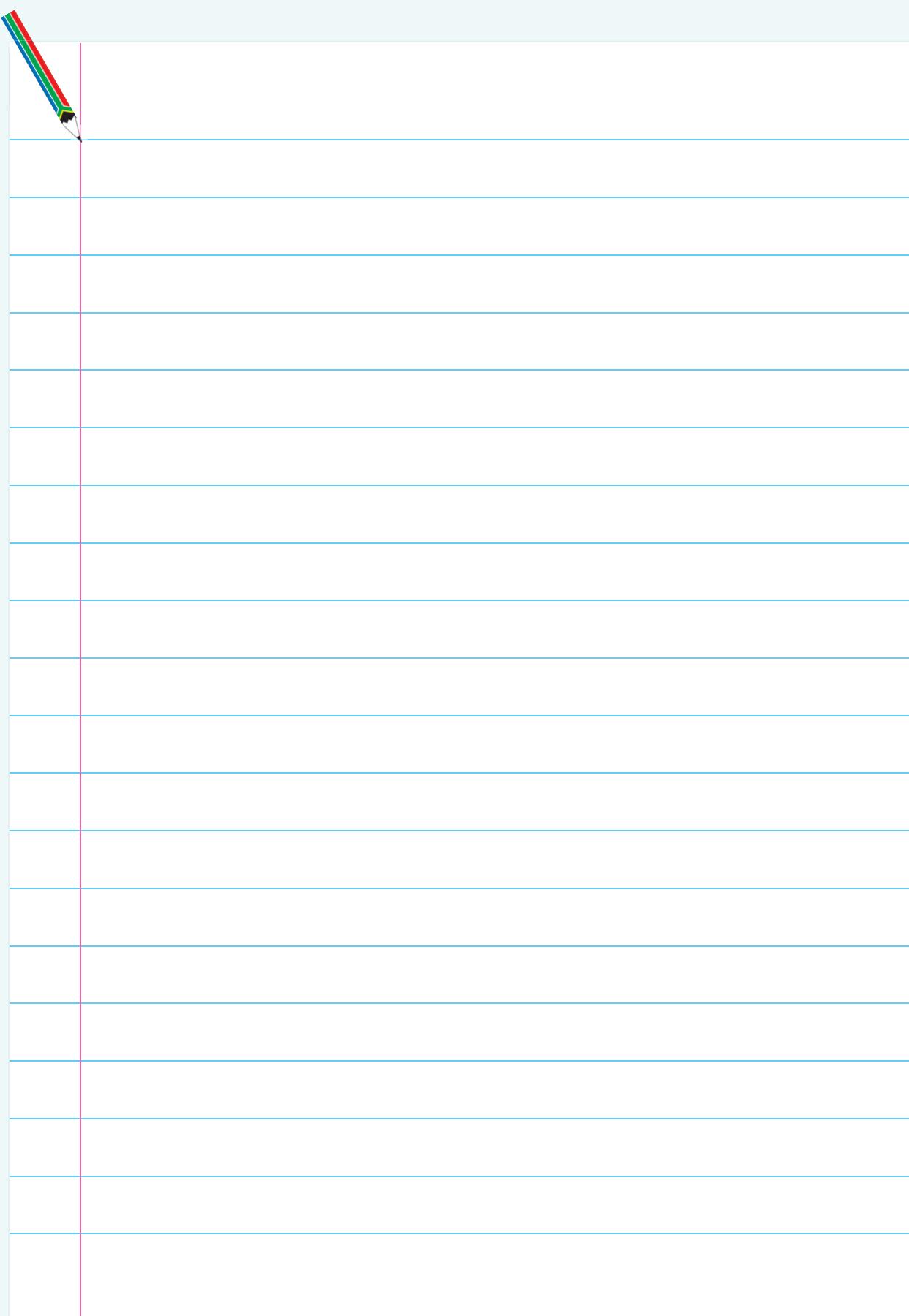
Gwala enye ihafu yamajamo.



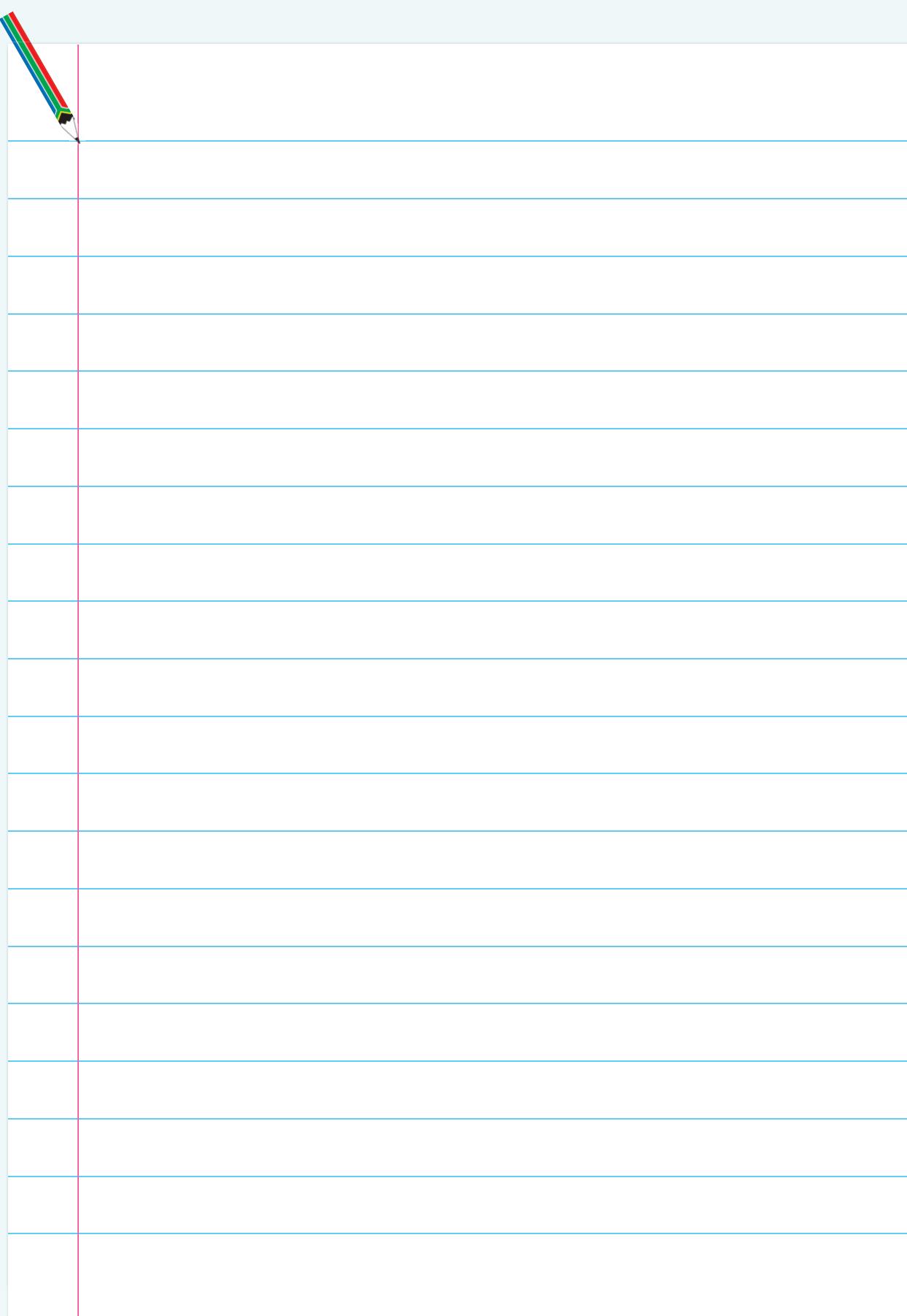
Amanowuthi



Amanowuthi

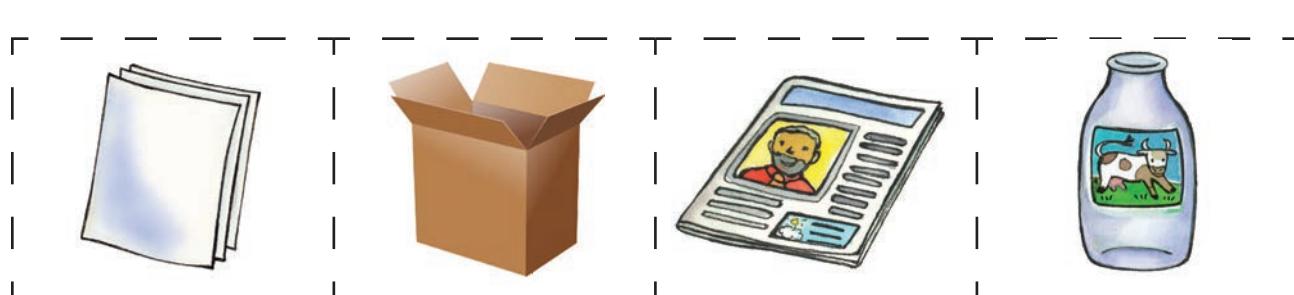
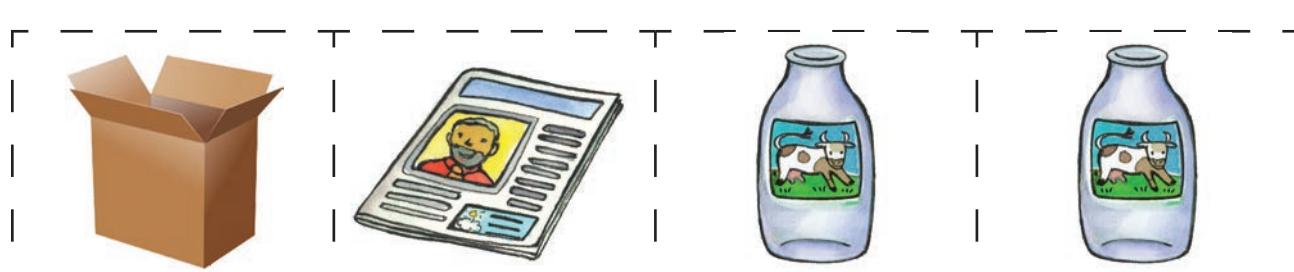
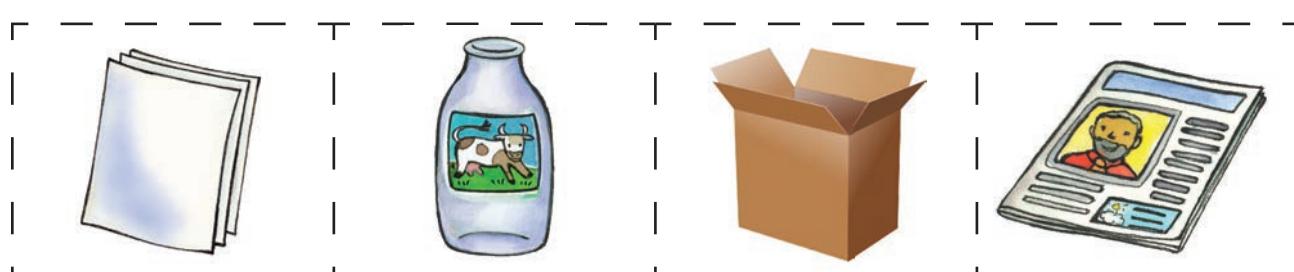
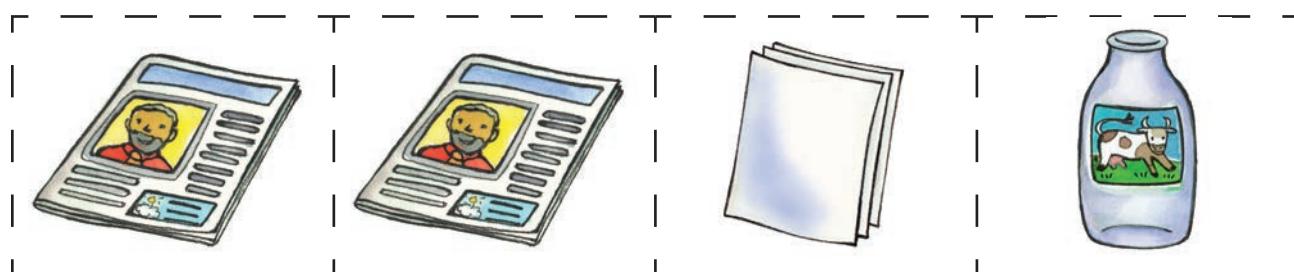
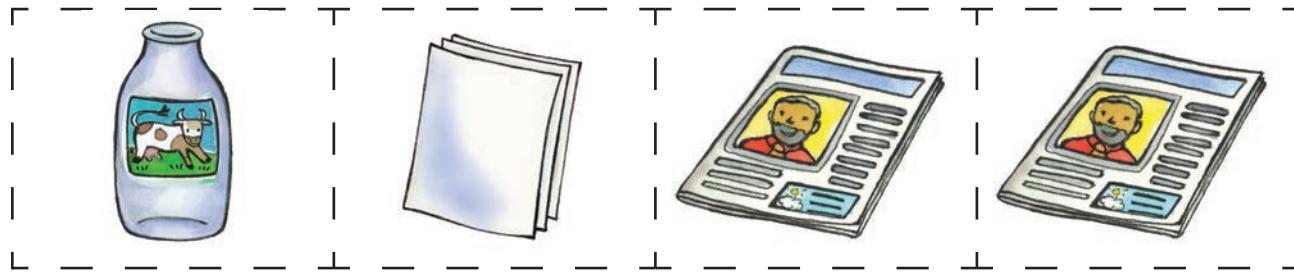


Amanowuthi



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						
-	-	-						

