

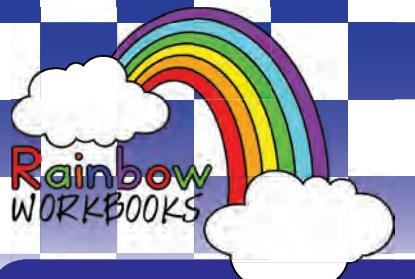


UKKz. Angie Motshekga,
nguNqgonqgotjhe
wezeFundo-Sisekelo



UNom Enver Surty,
nguSekela kaNqgonqgotjhe
wezeFundo-Sisekelo

ISBN 978-1-4315-0129-8



MATHEMATICS IN ISINDEBELE
GRADE 1 – BOOK 2
TERMS 3 & 4

ISBN 978-1-4315-0129-8

THIS BOOK MAY
NOT BE SOLD.

Iincwadi lezi zenzelwe abentwana beSewula Afrika ngaphasi koburholi bakaNqgonqgotjhe wezeFundo-Sisekelo. uMma u-Angie Motshekakanye neSekela lakNqgonqgotjhe wezeFundo-Sisekelo. uNom. Enver Surty.

Iincwadi zokuSebenzela zakwaRainbow ziyingceny yeendla ezinengi zomNyango wezeFundo-Sisekelo wokungelela onqophe ukuthuthukisa ukusebenza ngcono kwabafundi beSewula Afrika kumagreyidi wokuthoma asithandathu. Njengamanye wamaHlelo womBuso aphuma phambili. iprojekthi le isekelwe ngeemali ezibuya esiKhwameni seeMali selLizweloke. 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 ikharihyulamu.

Sitjheje khudlwana ukuhlahla abotitjhere komunye nomunye umsebenzi ngokusebenzisa iinthombe ezitjengjisako bona ngikuphi umfundsi amele akwenze.

Siyathemba kobana abentwana bazokuthabela ukusebenzisa iincwadi lezi njengombana bakhula bebefunda nje. begodu wena titjhere uzokwabelana nabo ithabo lokufunda. Sinifisela ipumelelo ekusebenziseni iincwadi lezi.



1 2 3 4

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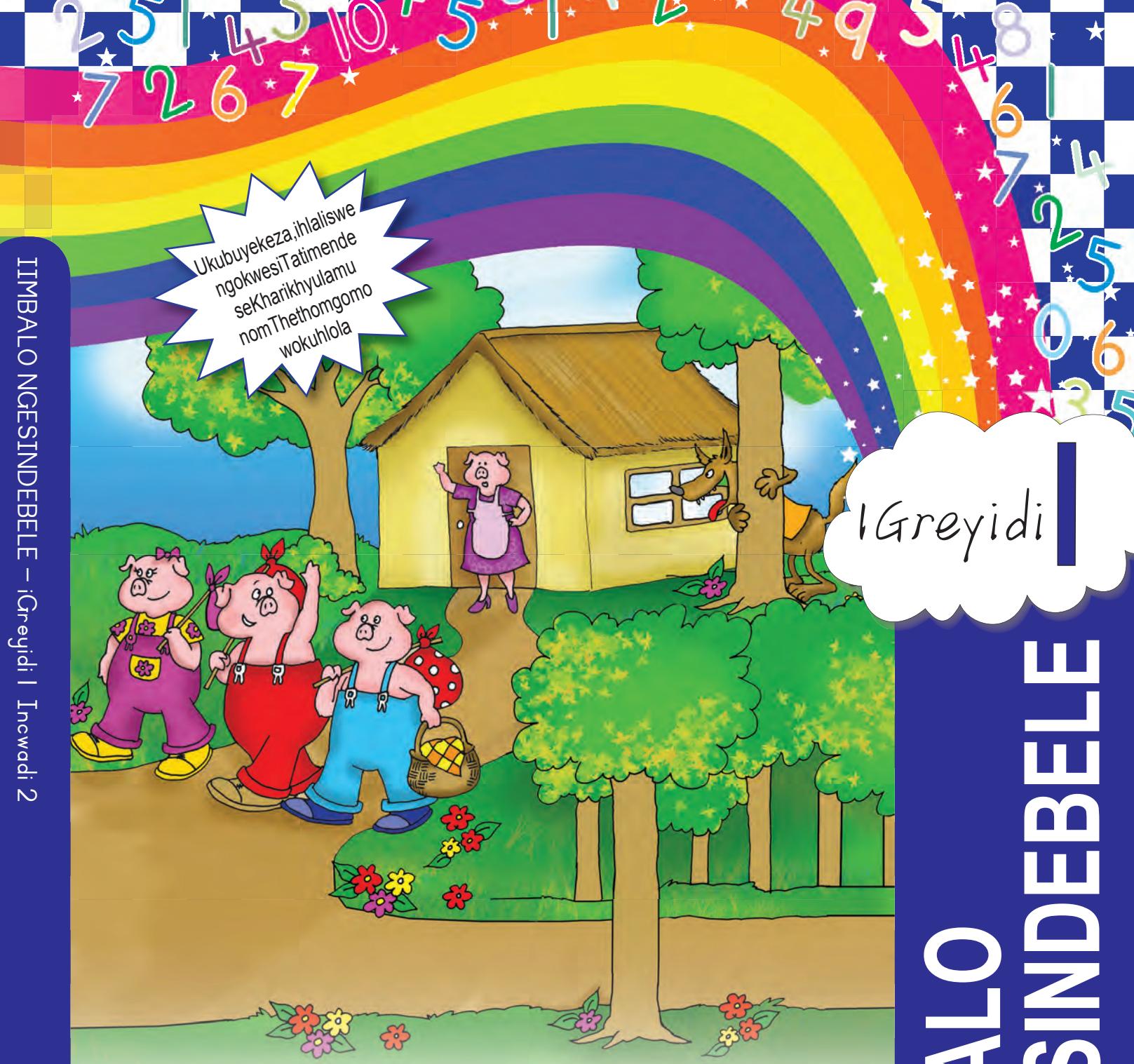
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IIMBALO NGESINDEBELE – iGreyidi | Incwadi 2



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Ibizo:

Itlasi:



IIMBALO
NGESINDEBELE

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Ithemu
3 & 4

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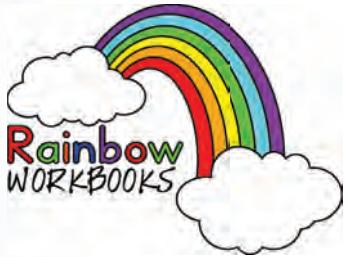


1-20



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

IGreyidi



ISINDEBELE

Incwadi le ngeyaka - :



Incwadi

2



Ukuzwisia inomboro ye - II

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



kunye

I I



kubili

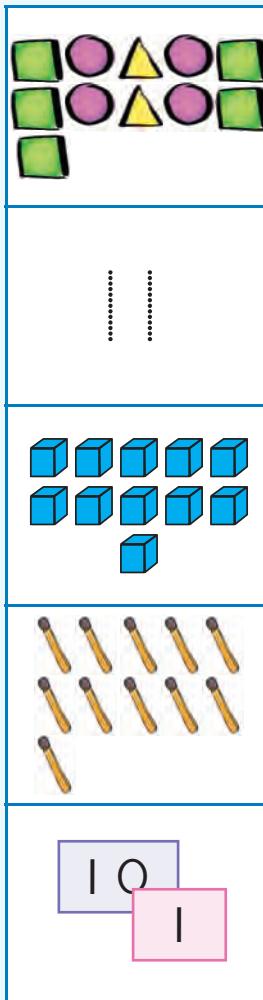
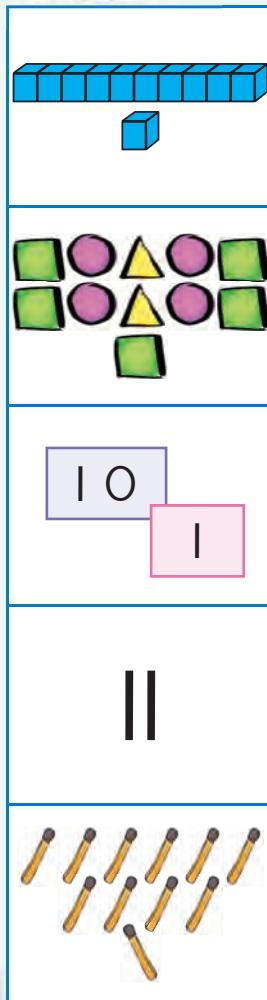
2 2



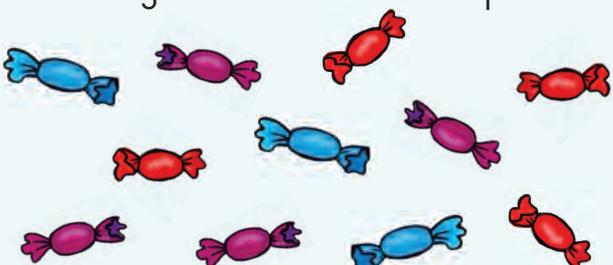
Madanisa iinthombe.



Ndulungela izinto.

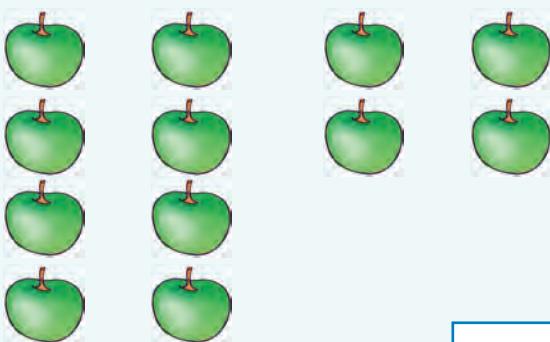


Ndulungela amaswidi ali-10 kwaphela.



Kusele amaswidi amamngaki?

Ndulungela ama-apula ali-10 kwaphela.



Kusele ama-apula amangaki?



0

1

2

3

4

5

6

7

8

9

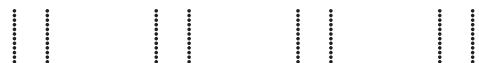
10



Gadangisa iinomboro.



itjhumi nakunye



Ikholomu ngalinye
kumele lithi
nalihlanganiswako
lenze i-II. Qedeleta
ngeenomboro
ezitlhayelako.

3	5	4
4	5	
4		2
II	II	II



Gwala izinto ezili-II.



Qedeleta ngeenomboro
ezitlhayelako.

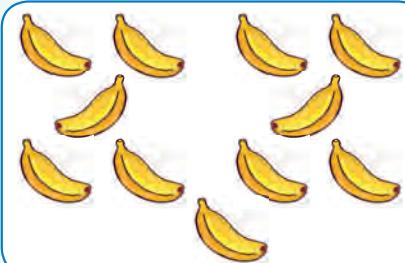
1

2

4



Bala izinto.



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

 		itjhumi nanye
	III	itjhumi nanye
II		
	itjhumi nakunye	



Inomboro encani
ngakunye ku-II. _____

Inomboro ekulu
ngakunye ku-II. _____



11

12

13

14

15

16

17

18

19

20

66



Ilanga:

Itihemu 3

Ukuzwisia inomboro ye-12

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



3 3



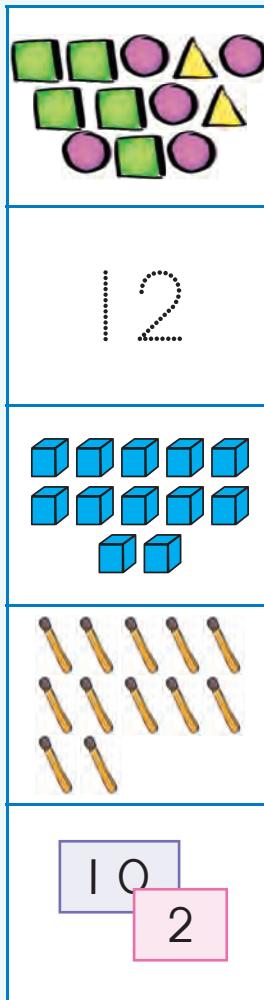
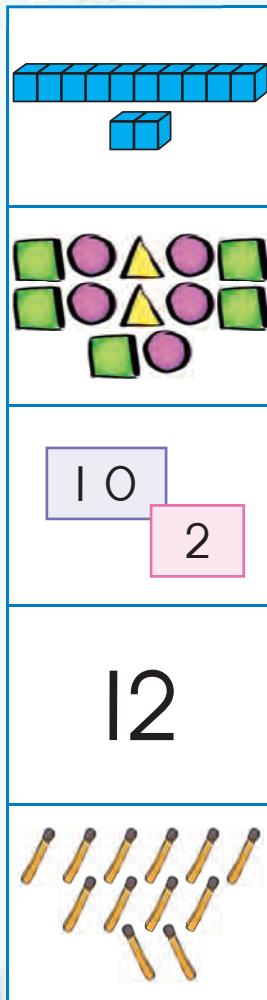
4 4



Madanisa iinthombe.



Ndulungela izinto.



Ndulungela amanyathelo ali-10 kwaphela.



Kusele amanyathelo amangaki?

Ndulungela amaqephe ali-12 kwaphela.



Kusele amaqephe amangaki?



0

1

2

3

4

5

6

7

8

9

10



Gadangisa iinomboro.

|2 |2 |2 |2

itjhumi nambili

|2 |2 |2 |2



Ikholomu ngalinye
kumele lithi
nalihlanganiswako
lenze i-|2. Qedelela
ngeenomboro
ezitlhayelako.

	7	6
4		4
3	2	
2	2	2



Gwala izinto ezili-|2.



Qedelela ngenomboro
etlhayelako.

3		5			
8					



Bala izinto.



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



Inomboro encani
ngakunye ku-|2. _____

		itjhumi nambili
	2	itjhumi nambili
		2
	itjhumi nambili	

Inomboro ekulu
ngakunye ku-|2. _____





Ukuzwisia inomboro ye-13

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



kuhlalu

5 5



kuthandathu

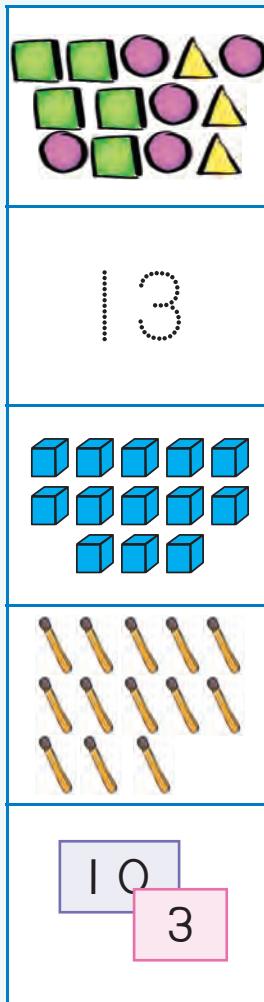
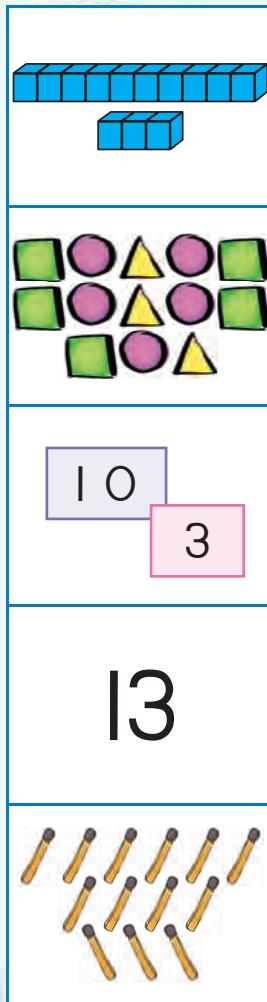
6 6



Madanisa iinthombe.



Ndulungela izinto.

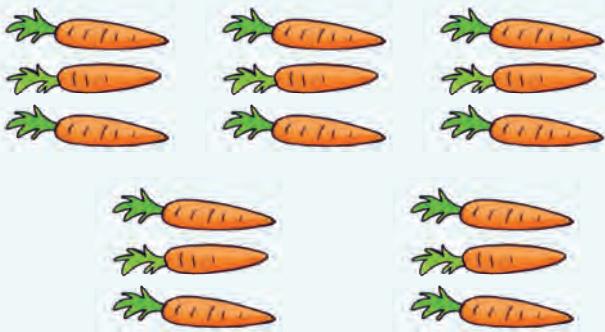


Ndulungela abokatsu abali-10 kwaphela.



Kusele abokatsu abangaki?

Ndulungela amakhero thi ali-13 kwaphela.



Kusele amakhero thi amangaki?



6

0

1

2

3

4

5

6

7

8

9

10



Gadangisa iinomboro.

|3 |3 |3 |3

itjhumi nantathu

|3 |3 |3 |3



Ikholomu ngalinye
kumele lithi
nalihlanganiswako
lenze i-|3. Qedelela
ngeenomboro
ezitlhayelako.

1	2	6
1		
	3	2
3	3	3



Gwala izinto ezili-|3.

Kwanje zigwale ngendlela eyehlukileko.

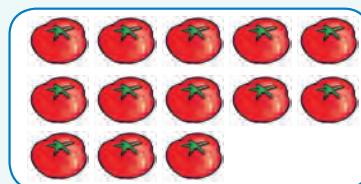


Qedeleta ngeenomboro
ezitlhayelako.

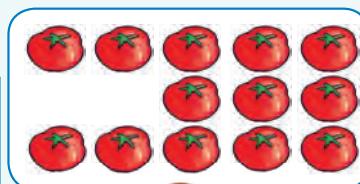
	10		12		
	12				



Bala izinto.



--



--



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



 		itjhumi nantathu
	3	itjhumi nantathu
3	 	
	itjhumi nantathu	

Inomboro encani
ngakunye ku-|3. _____

Inomboro ekulu
ngakunye ku-|3. _____



Teacher:
Sign:

Date:





Ukuzwisia inomboro ye -14

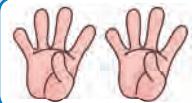
Ukubuyekeza:

Zijayeze ukutlola iinomboro.



likhomba

7 7



bunane

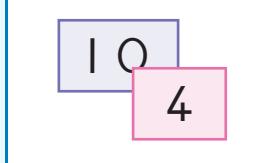
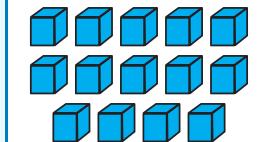
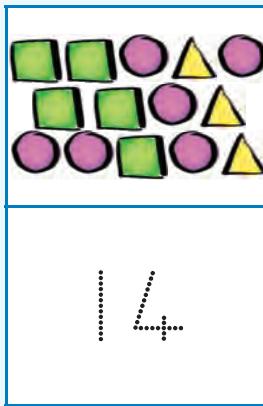
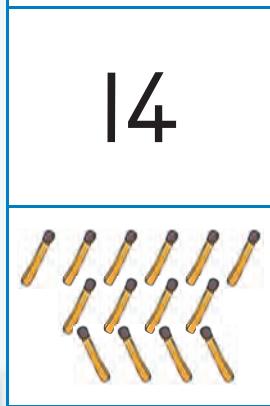
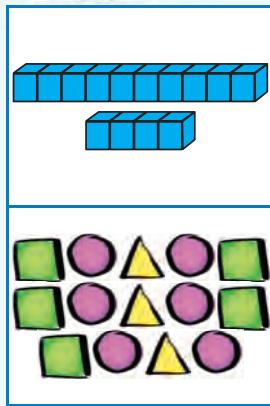
8 8



Madanisa iinthombe.



Ndulungela izinto.



Ndulungela amaviyavyani ali-10 kwaphela.



Kusele amaviyavyani amangaki?

Ndulungela amarogo ali-14 kwaphela.



Kusele amarogo amangaki?





Gadangisa iinomboro.

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

itjhumi nane

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



Ikholomu ngalinye
kumele lithi
nalihlanganiswako
lenze i-14. Qedelela
ngeenomboro
ezitlhayelako.

1		2
	5	1
3	2	
14	14	14



Gwala izinto ezili-14.

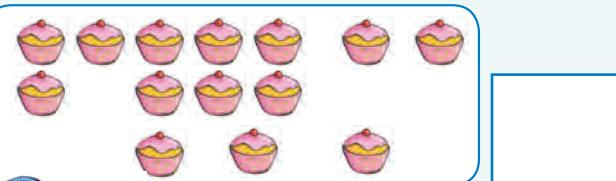
Kwanje zigwale ngendlela eyehlukileko.



Qedelela ngeenomboro
ezitlhayelako.



Bala izinto.



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

 	14	itjhumi nane
14	 	
	itjhumi nane	



Inomboro encani
ngakunye ku-14. _____

Inomboro ekulu
ngakunye ku-14. _____



69



Ilanga:

Ithemu 3

Ukuzwisia inomboro ye -15

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



q q



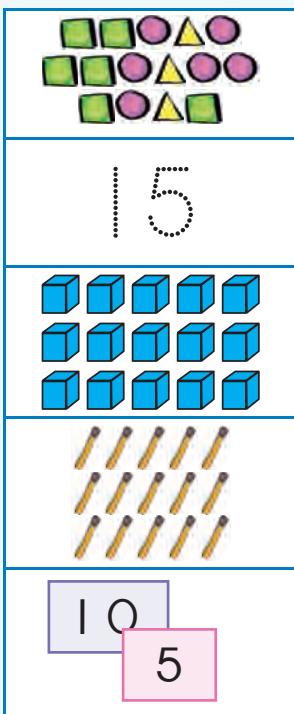
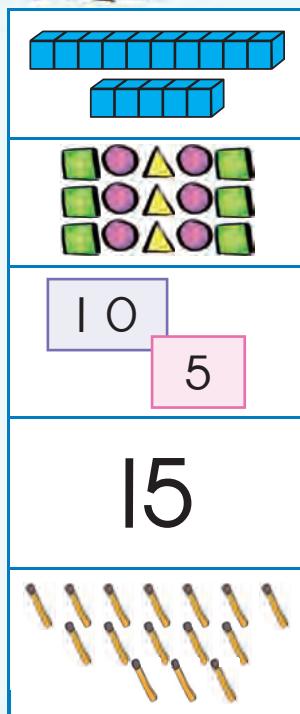
10 10



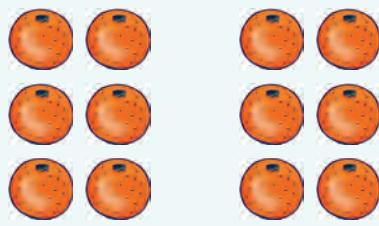
Madanisa iinthombe.



Ndulungela izinto.



Ndulungela ama-orentji ali-10 kwaphela.



Kusele ama-orentji amangaki?

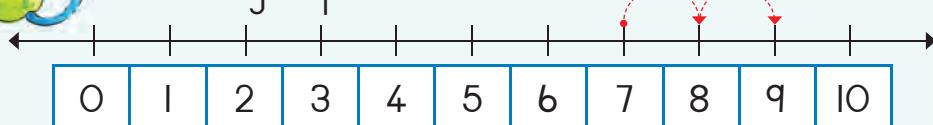
Ndulungela iinkwekwezi ezili-15 kwaphela.



Kusele iinkwekwezi ezingaki?



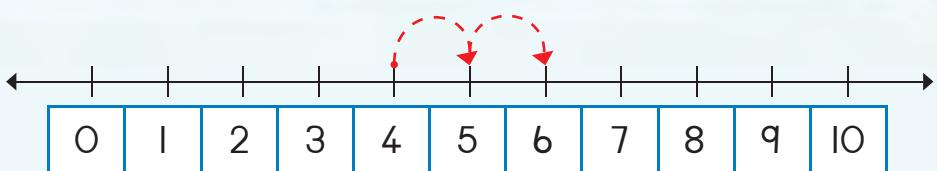
Qedeleta ngeempendulo.



$$7 + 2 =$$



0 1 2 3 4 5 6 7 8 9 10



$$4 + 2 =$$



Gadangisa iinomboro.



Gwala izinto ezili-15.

15 15 15 15
itjhumi nahlanu
15 15 15 15



Qedeleta ngeenomboro
ezitlhayelako.

11 12 13 15

15 13 12



Bala izinto.







Qedeleta 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. _____



70



Ilanga:

Ukuhlanganisa bekufike ema - 20 – Ragela njalo phambili

Ukubuyekeza:

Zijayenze ukutlola ibizo lenomboro.

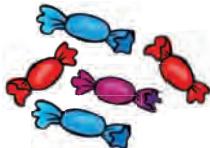
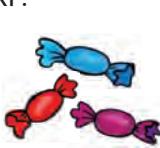
6

sithandathu



Qalisia isithombe bese utlola umutjho weenomboro komunye nomunye umutjho.

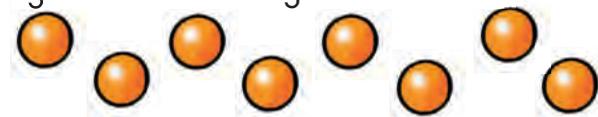
ULisa unamaswidi ama -3. UMandla unamaswidi ama -5. Bobabili banamaswidi amangaki?



Asibale:

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

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

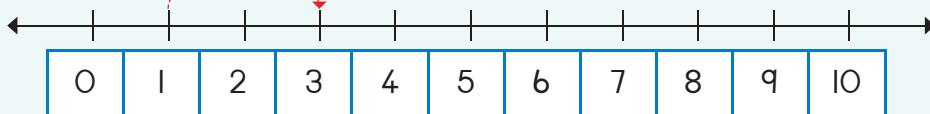


Asibale sibuyele emuva:

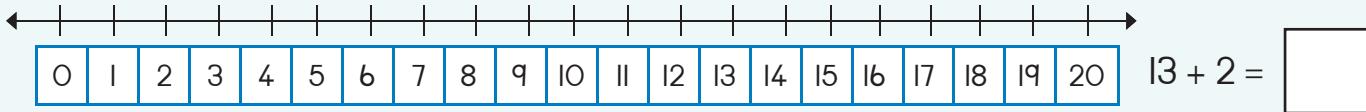
8	...	7	6	5	4
	- <input type="text"/>	= <input type="text"/>			



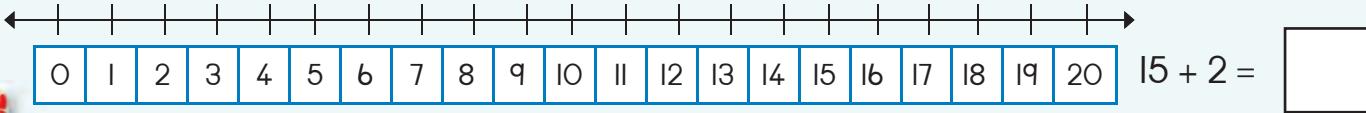
Qedeleta ngeependulo.



$1 + 2 = \boxed{}$



$13 + 2 = \boxed{}$

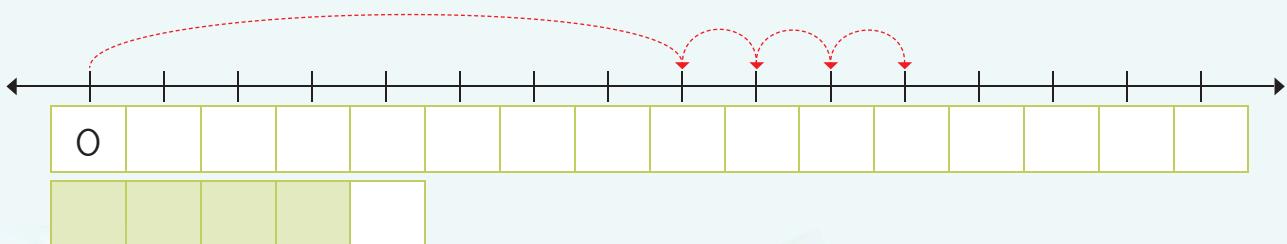
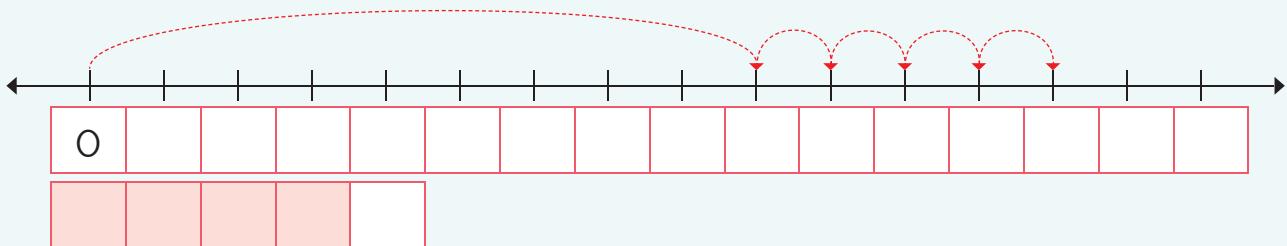
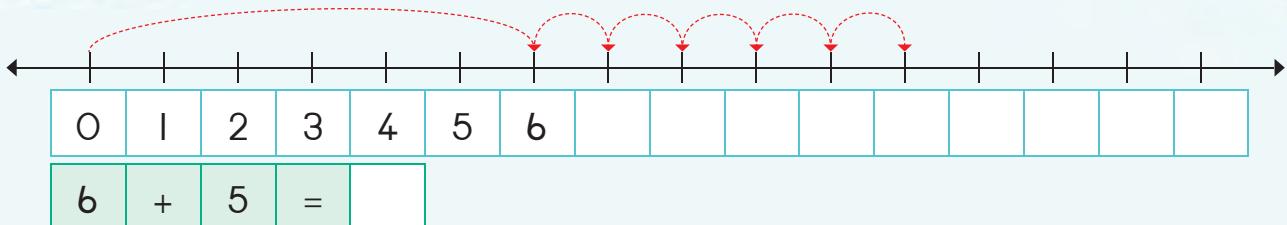


$15 + 2 = \boxed{}$





Tlola iinomboro kunambalayini bese utlola umutjho weenomboro umutjho ngamunye.



Bala ngakibili.

3	5
4	
2	



7	
8	
6	



Qedeleta ngeenomboro.



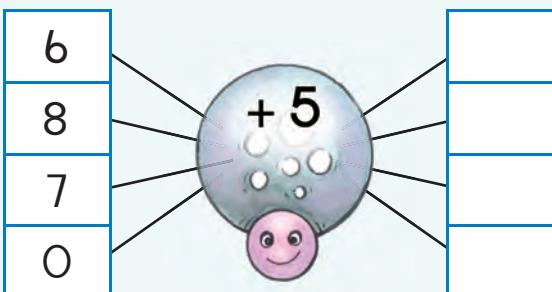
Siza isiswebu ukuqedelela isibalo.

Ngineminyaka eli - 7 ubudala.

Eminyakeni emi - 5 ezako, ngizabe ngineminyaka emingaki?

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

Ngizabe ngineminyaka _____.



71



Ilanga:

Ukuhlanganisa – ukwakha nokuhlephula iinomboro bekufike e -10

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

7

likhomba



Qedelela ngeenomboro.



Khalara ukutjengisa okulandelako.

$3 + 3 = \square$



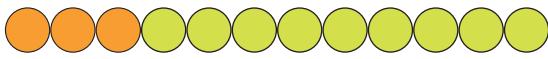
$0 + 5 = \square$



$3 + 2 + 1 = \square$



$3 + 9$



$4 + 8$



$5 + 7$



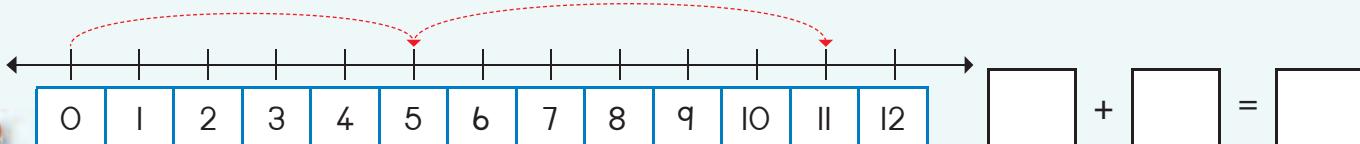
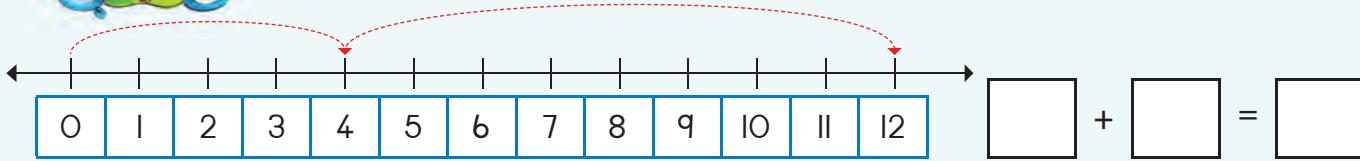
$6 + 6$



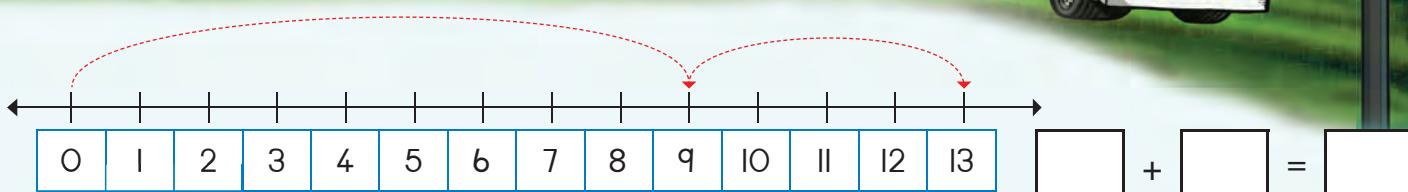
$7 + 5$



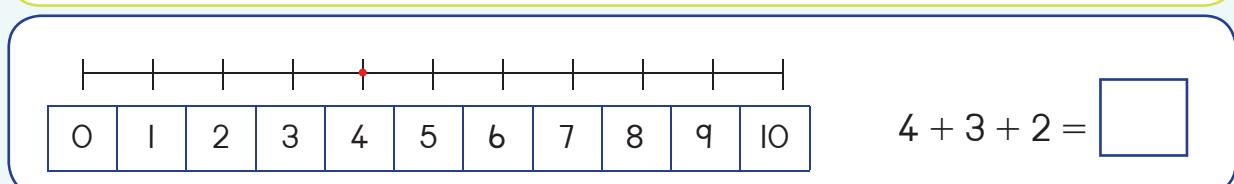
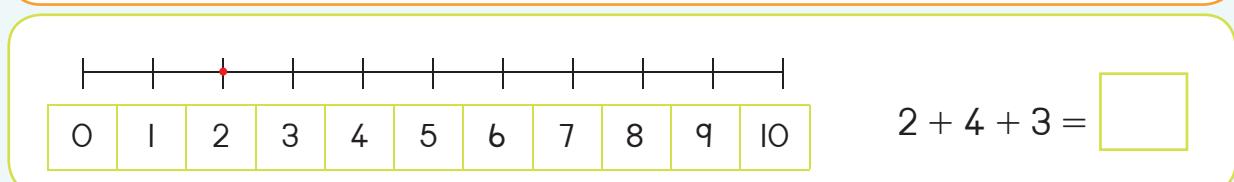
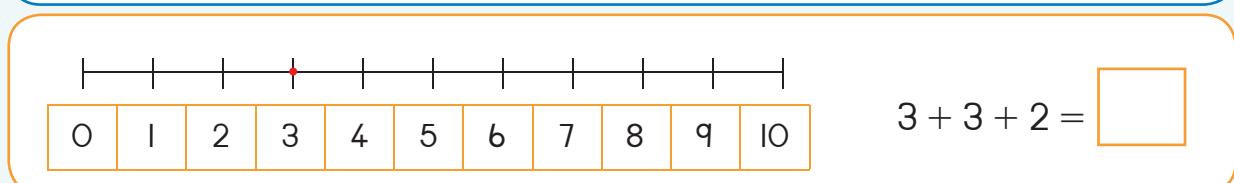
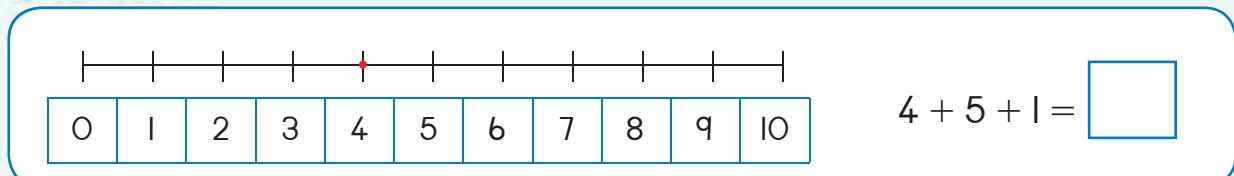
Tlola isibalo salokhu:



0 | 2 3 4 5 6 7 8 9 10



Qedelela inambalayini bese utlola ipendulo.



Rarulula isibalo esilandelako ngokuthi ugwale iinthombe.

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

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

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

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



Teacher:
Sign:

Date:





Ukuhlanganisa – ukwakha nokuhlephula iinomboro kufika ema - 20

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

8

bunane

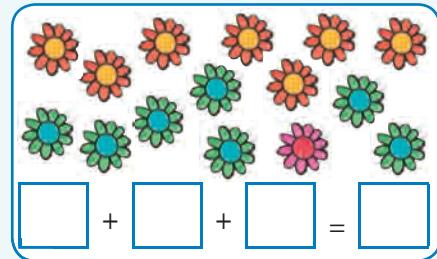
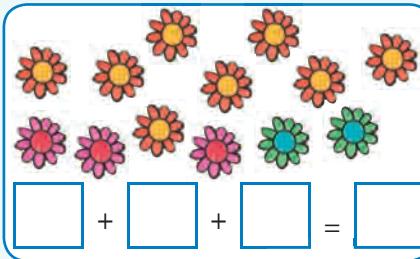
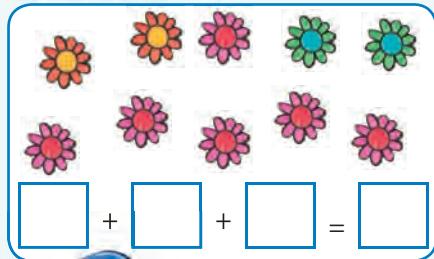


Qedelela ngependulo.

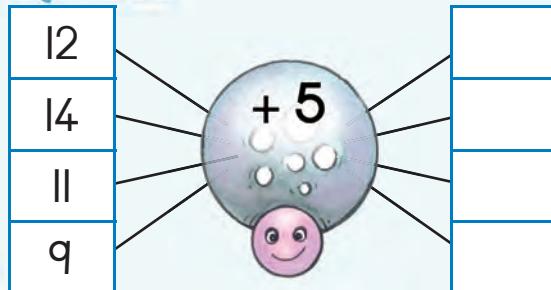
$0 + 2 =$		$2 + 2 =$		$4 + 2 =$		$6 + 2 =$		$8 + 2 =$	
$10 + 2 =$		$12 + 2 =$		$14 + 2 =$		$16 + 2 =$		$18 + 2 =$	



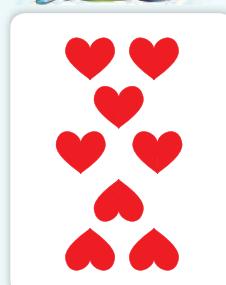
Sebenzisa umbala owehlukileko wamathuthumbo ukuzakhela yakho imitjho yeenomboro.



Siza isiswebu ukuqedelela iimbalo.



Ziinhliziyo ezingaki?



Zenzele isibalo sakho.

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





Madanisa iimpara zeenomboro ukwakha iinomboro ezilandelako.

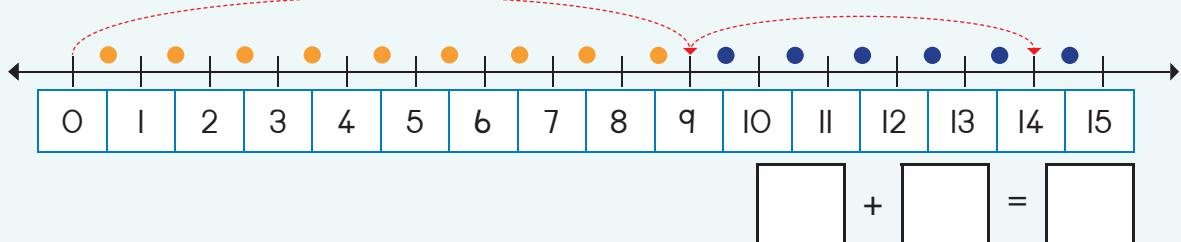
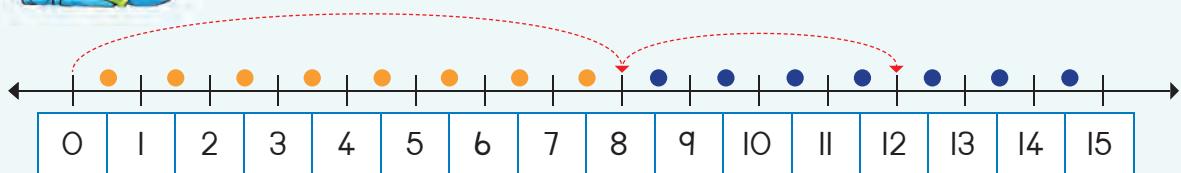
7	I3
8	
9	
10	
11	
5	
4	
6	
2	
3	

6	II
7	
3	
4	
5	
8	
5	
6	

8	I2
10	
4	
11	
6	
1	
8	
4	
2	



Tlola umutjho weenomboro walokhu:



Ukubuyekeza:

Ukubuyekeza: Khalara phezu kwependulo enembako.



ngaphambili

ngemuva

ngeqadi



ngaphambili

ngemuva

ngeqadi



ngaphambili

ngemuva

ngeqadi



ngaphambili

ngemuva

ngeqadi



Teacher:
Sign:

Date:

11

12

13

14

15

16

17

18

19

20



73



Ilanga:

Ukuhlanganisa nokukhupha – ukwakha nokuhlephula

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

q

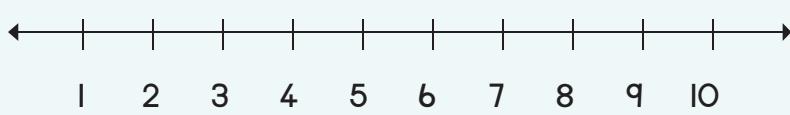
lithoba



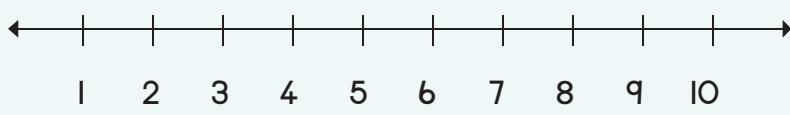
Qedeleta ngependulo.



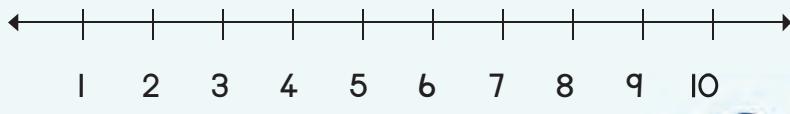
$4 - 1 =$



$5 - 3 =$



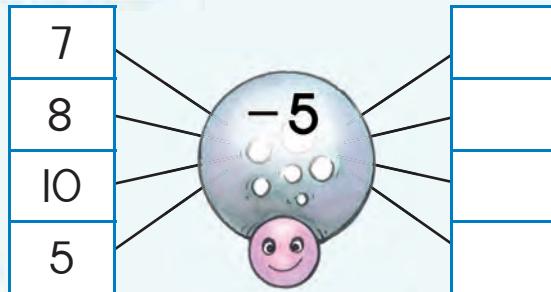
$4 - 2 =$



$5 - 2 =$



Siza isiswebu ukuqedelela iimbalo.



Ziinhliziyo ezingaki?



Zenzele isibalo sakho.

$\square + \square = \square$



Balisisa okulandelako.

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

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

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

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

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

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

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

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

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

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

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

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



Tlola iimpendulo bese uyakhalara ubuye uwale.

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



Ipendulo inganikelwa ngale indlela:

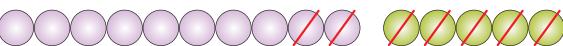


$$(8 + 2) + 4 = \boxed{} \rightarrow 10 + 4 = \boxed{}$$

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



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:

11

12

13

14

15

16

17

18

19

20



74

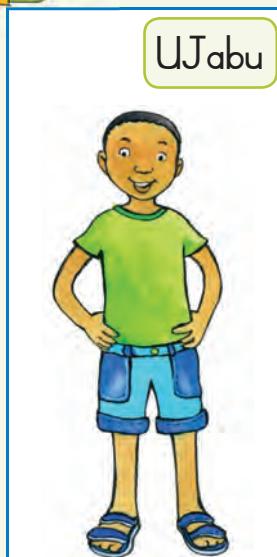


Qalisa isithombe bese uphendula imibuzo.

Ithemu 3



Ubude



Ngubani omude khulu?

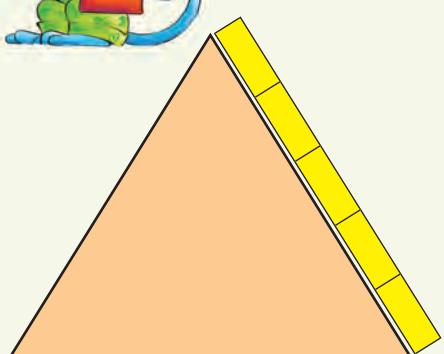
Ngubani omfitjhani khulu?

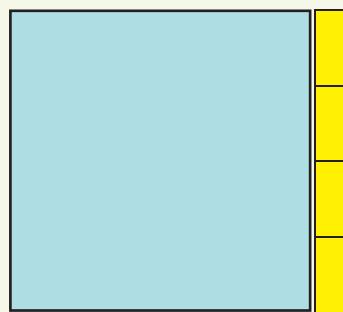
Ngubani umsana omfitjhani khulu?

Ngubani umntazana omfitjhani khulu?



Amahlangothi amade wamajamo amabhlogo amangaki ubude?









20

0

1

2

3

4

5

6

7

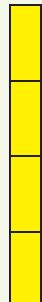
8

9

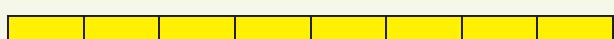
10



Itafula lithatha amabhlogo angangani ubude kanye nobubanzi?
Itafula lithatha iimpensela ezingangani ubude nobubanzi?



Ububanzi bamabhlogo ____.



Ubude bamabhlogo ____.



Ububanzi bamabhlogo ____.

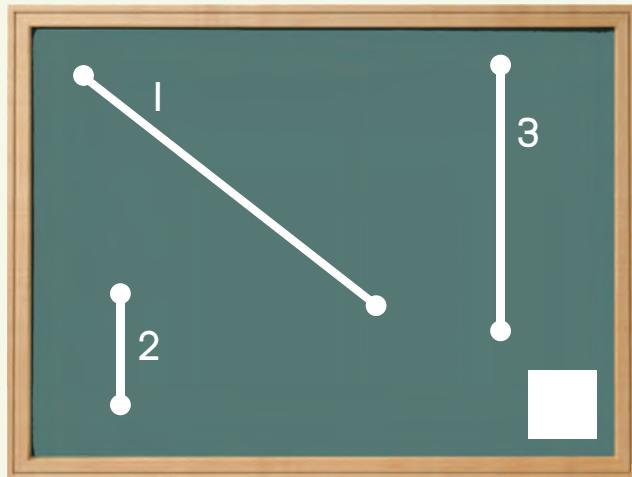
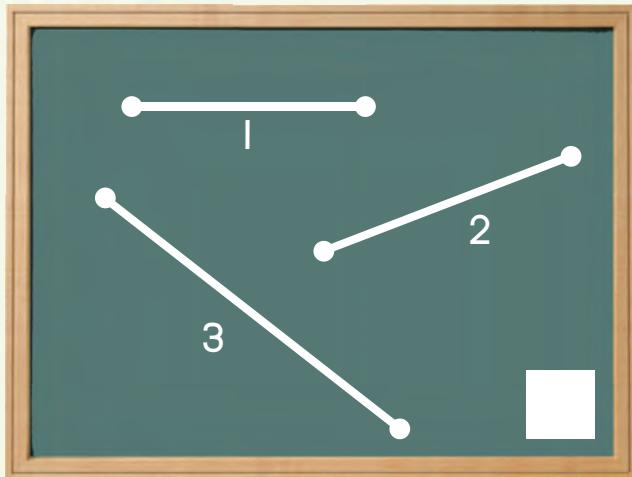


Ubude bamabhlogo ____.



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

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





Imali netjhentjhi

Emudeni ngamunye, thika inani eliphezulu.

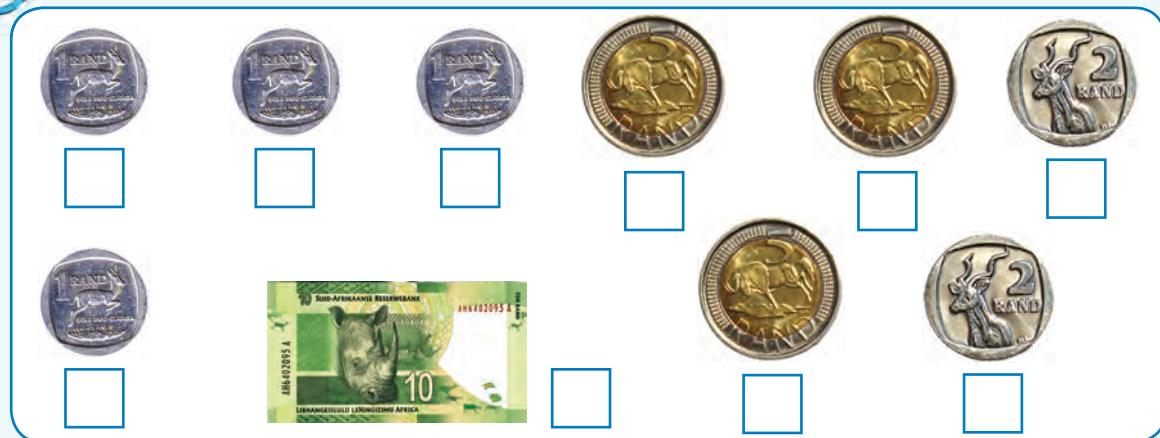
Ilanga:



Thika imali yesimbi/emumuwa ezokwenza i-RIO.



Thika imali yesimbi/emumuwa ezokwenza ama-R20.





Balisisa okulandelako:

$R5 + RIO =$

$R5 + R2 + R8 =$

$RIO + RIO =$

$R3 + RIO + R2 + R2 =$

$R5 + R7 + RI + R5 =$

$RIO + RI + R5 + R2 =$



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 -R15:

Ngibhadela

Itjhentjhi



Balisisa okulandelako:

$R4 + R7 = RII$

$R4$

$R6 + R9 =$

$R8 + R3 =$

$R2 + RII =$

$R3 + R8 =$

$R6 + R8 =$

$RO + R2 =$

$R2 + R2 =$

$R4 + R2 =$

$R6 + R2 =$

Nginemali ema -R15. Ngithenga iphakethe
lamazimba ngama -R6. Ngizokusala ngemali
engangani?



Yenze kobana inciphe ngama -R2.

RII		R4	
RI2		R6	
RO		R8	



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Date:



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RI1

RI2

RI3

RI4



Thika bewutlole
ipendulo
ekungiyo.

Imali netjhentjhi

Gwala imali yesimbi/emumuwa ukwenza:

Ilanga:

$RI8 - R8 = \boxed{}$



$RI2 - R2 = \boxed{}$



$RI5 - R4 = \boxed{}$



$RI4 - R7 = \boxed{}$



Balisisa okulandelako:

$RI5 - RIO = \boxed{}$

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

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

$R5 - R4 = \boxed{}$

$R2O - R5 = \boxed{}$

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



Balisisa okulandelako:

Nginemali ema -15. Ngithenga ngemali:	Ngisele ngamalini?
R2 begodu R4 =	R9
R8 begodu R4 =	
RI2 begodu R2 =	
R5 begodu R5 =	
R8 begodu R7 =	
RIO begodu R2 =	
R8 begodu R2 =	
R6 begodu R2 =	
R4 begodu R2 =	
R2 begodu R2 =	
R9 begodu R6 =	
RIO begodu R2 =	



Nginemali ema -R15. Ngithenga iphakethe yamaswidi nge -RII.

Gwala utjengise kobana usele ngemali engangani.




→



Teacher:
Sign:
Date:





Imali: Ukuhlanganisa nokukhupha



Balisia okulandelako:

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

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

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



Balisia okulandelako:

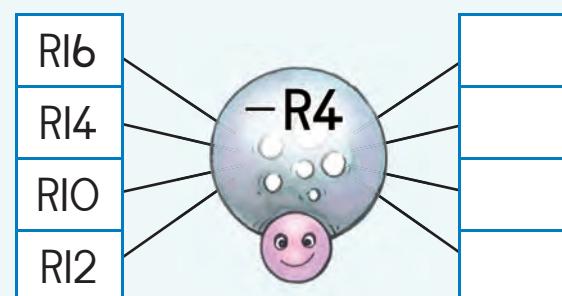
$RIO - R7 =$	
$RI5 - RI =$	
$RI2 - R2 =$	
$RI5 - R6 =$	

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

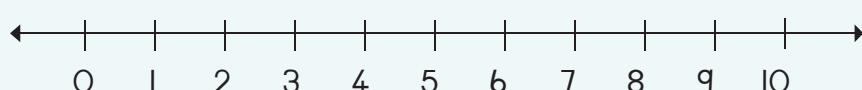
$RIO - R5 =$	
$RI5 - R2 =$	
$RI6 - R6 =$	
$RI4 - R4 =$	

Siza isiswebu
ukuqedelela iimbalo.

Nciphisia ngemali ema-R2.



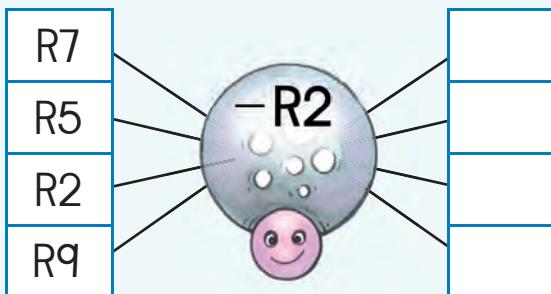
$$R4 - R2 =$$



$$R7 - R2 =$$



Siza isiswebu ukutlola zoke iimbalo zokukhupha.



Rarulula okulandelako.

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

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

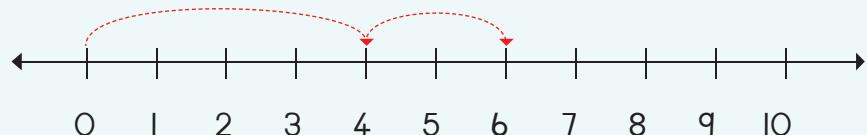


Ngibulunge imali
engangani?

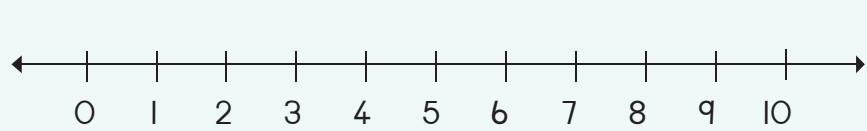


Tjengisa isibalo kunambalayini bese ubalisisa ipendulo.

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



$$R8 + R2 = \boxed{}$$

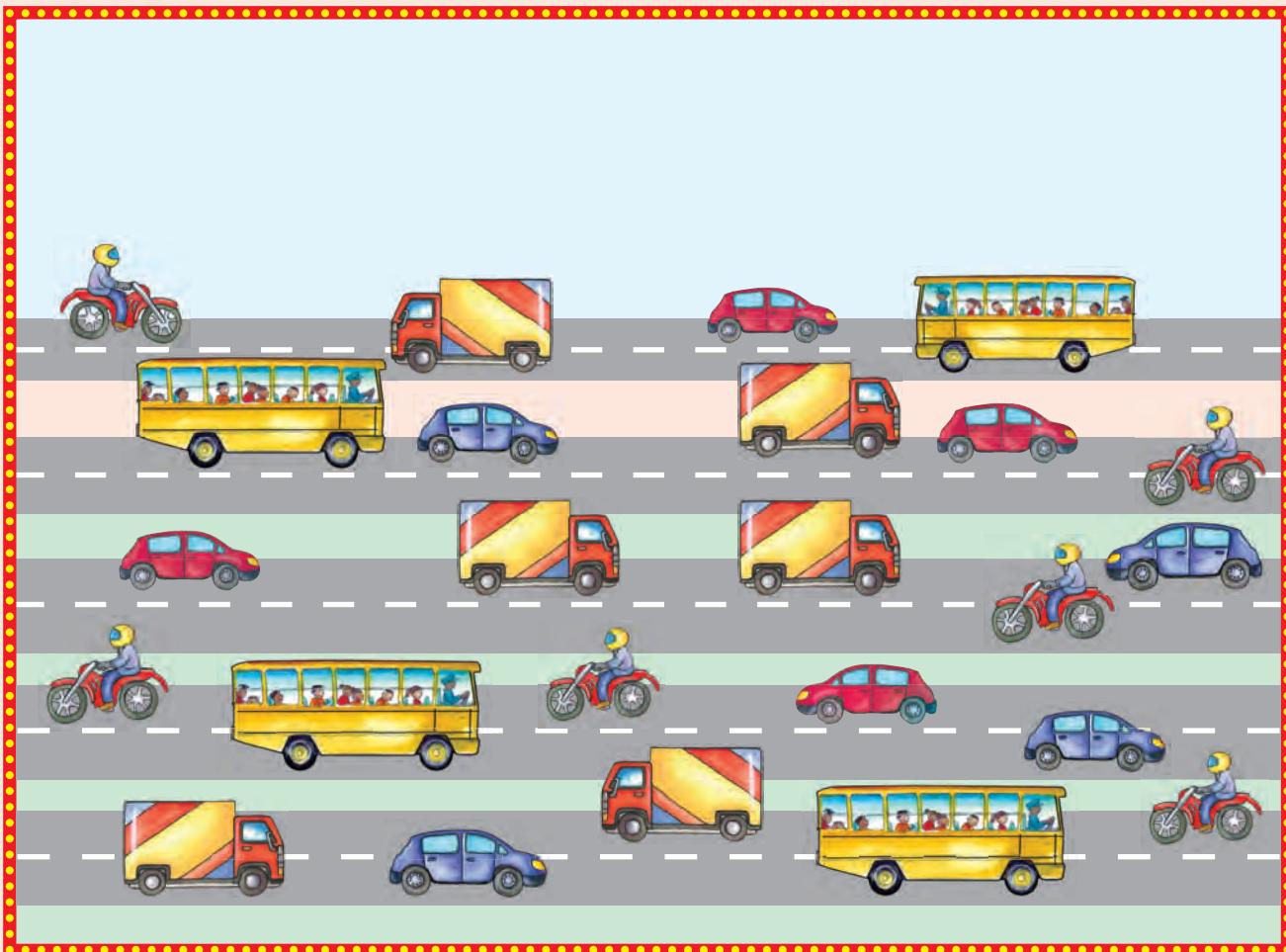




Bala kobana ubona imihlobo emingaki yeenkoloyi.

Idatha

Ilanga:





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



5					
4					
3					
2					
1					
	△	○	□	♥	★
					○

Ubnunengi bakhona _____.

Ubnuncani bakhona _____.

Teacher:
Sign:

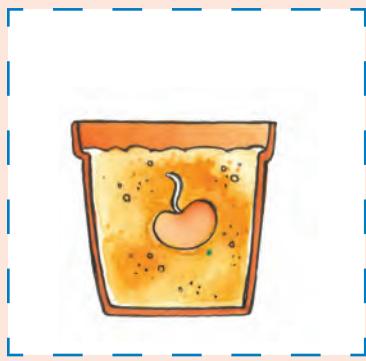
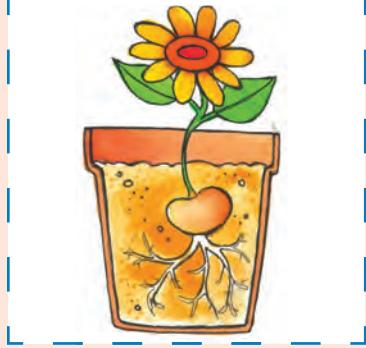
Date:





Ilanga nesikhathi

Cocisanani ngeenthombe bese nizibeka ngendlela ezilamana ngayo.



1

2

3

4

Ilanga:



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



--	--	--	--



Teacher:
Sign:
Date:





Amabuthelelo wangakuhanu bekufike e-15

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.



$5 + 5 =$



$5 + 5 + 5 =$



$5 + 5 + 5 + 5 =$

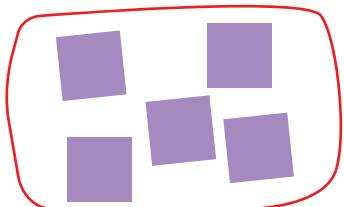
Amabuthelelo amabili
wangakuhanu enza i-10



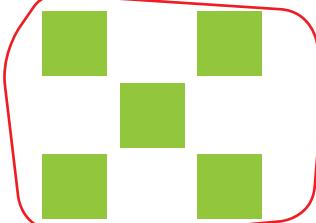


Gwala iyingi undulungele
okulandelako ukwenza:

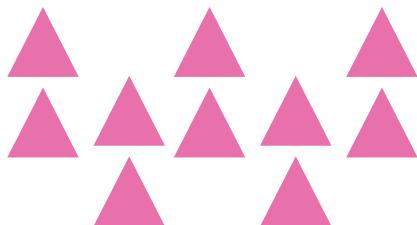
Ibuthelelo elilodwa langaku-5 lenza
oku-5



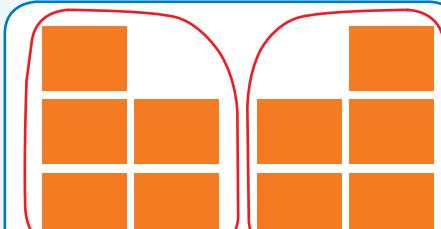
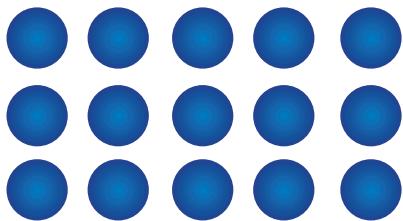
Tlola imitjho yeenomboro
yalokhu okulandelako:



Amabuthelelo ama-2 wangaku-5

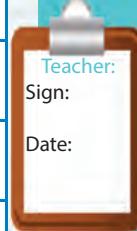


Amabuthelelo ama-3 wangaku-5



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



81



Ilanga:

Ngakuhlanu: ukuhlanganisa okubuyeletweko bekufike e-15

Ithemu 3

Ukubuyekeza:

Ukubuyekeza: Qedelela ngeenomboro ezitlhayelako.



Mazwani amangaki nanyana mimino emingaki? Tlola umutjho weenomboro.



Ibuthelelo lamabhanana amahlanu

Amabuthelelo amabili wamabhanana
ibuthelelo ngalinye

Gwala:



Gwala amajamo wokulandelako.

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

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



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

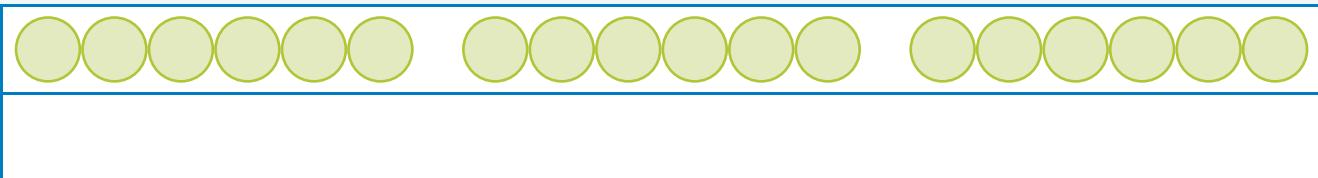




Ndulungela bewubale kobana ungabeka amabuthelelo wangakuhanu amangaki kelinye elinye ikarada.



Tlola umutjho weenomboro walokhu:



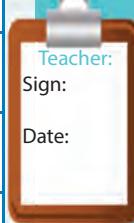
Sebenzisa imibala eyahlukeneko ukutjengisa iinomboro ozoyisebenzisa ukubeka amabuthelelo wangakuhanu.

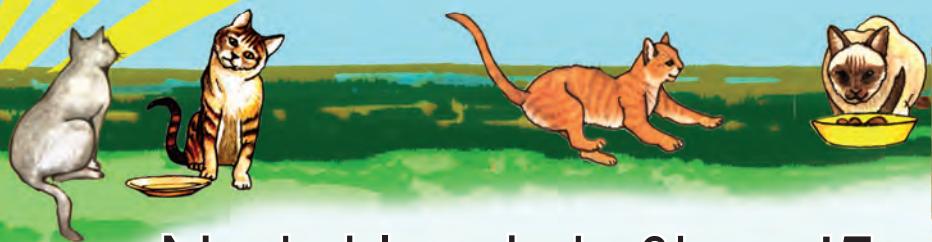
I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5					



Ungabeka amabuthelelo wangakuhanu amangaki?

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



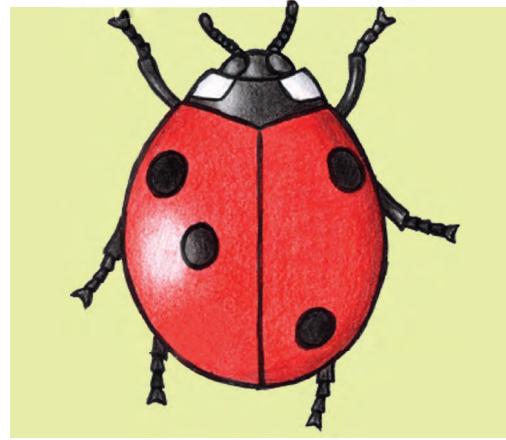


Tlola iinombororo ezitlhayelako.

I		3		5		7	8	q	
II	I2								

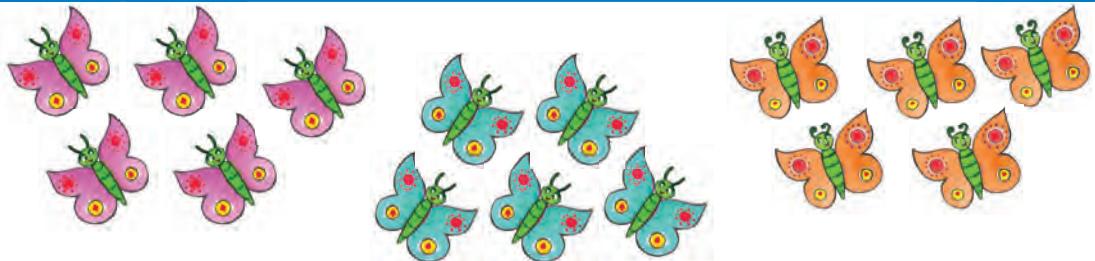
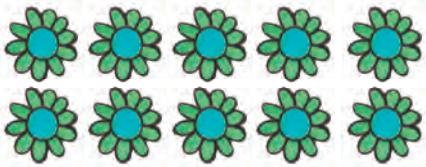


Beka amabuthelelo wangakuhanu. Unomabhonjwana ngamunye umele abe namacaphazi amahlanu ephikweni ngalinye.
Gwala amacaphazi atlhayelako.





Tlola umutjho weenomboro walokhu okulandelako.



Balisisa okulandelako:

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

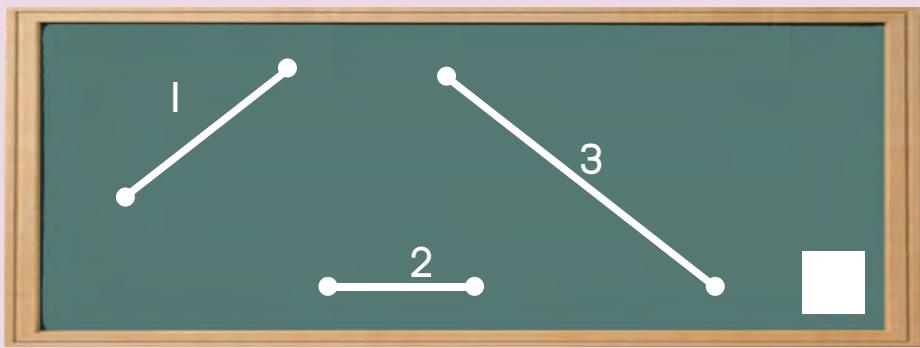
$$5 + 5 + 5 = \boxed{}$$

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

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

Ukubuyekeza:

Ukubuyekeza: Ngiwuphi umuda omude?





Amaphetheni weenomboro zangakuhanu bekufike ema - 50

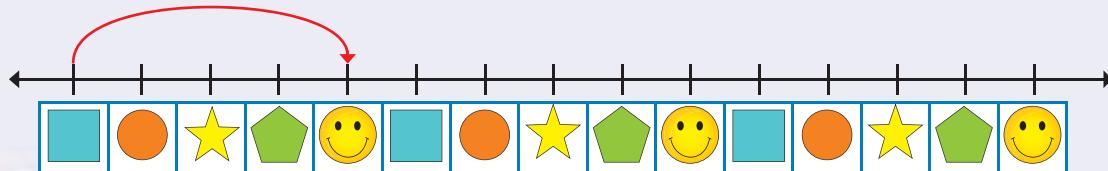


Qedeleta iphetheni yangakuhanu ngokukhalara phezu kweenomboro.

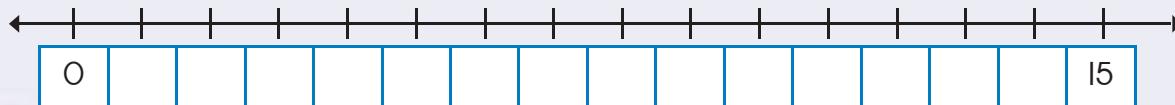
I	2	3	4	5	6	7	8	9	10
II	12	13	14	15	16	17	18	19	20
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50



Gwala amawulawubhu ukutjengisa amabuthelelo wangakuhanu.

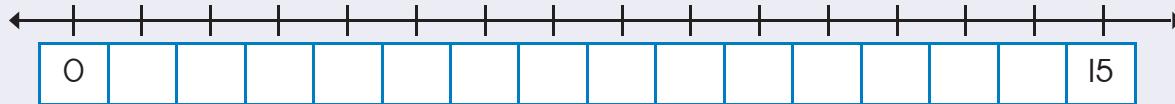


Qedeleta ngeenomboro ezithayelako bese ugwala amawulawubhu ukutjengisa amabuthelelo wangakuhanu.



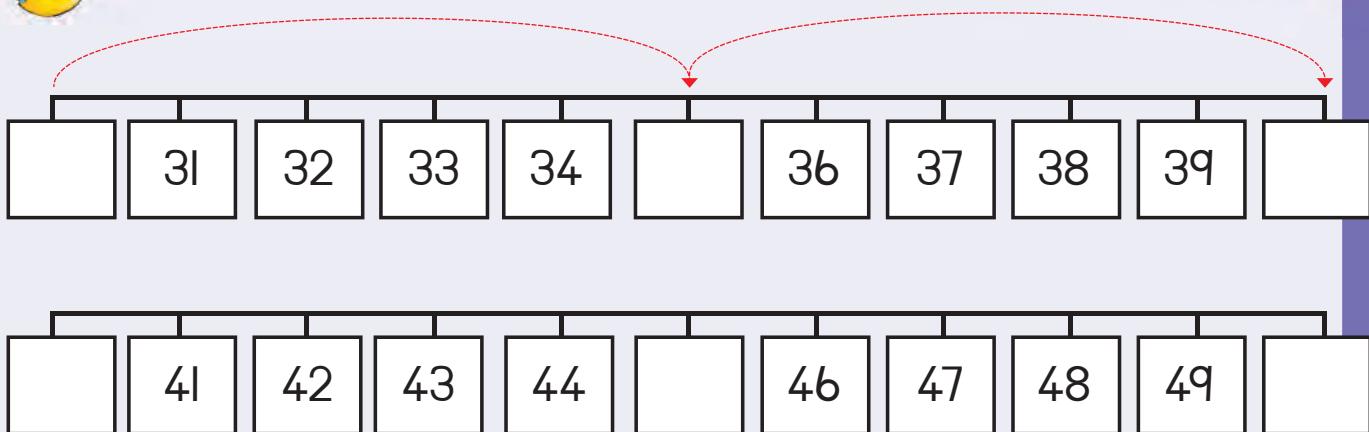
Qedeleta inambalayini. Gwala amawulawubhu ukutjengisa amabuthelelo wangakuhanu.

Kunamabuthelelo wangakuhanu.



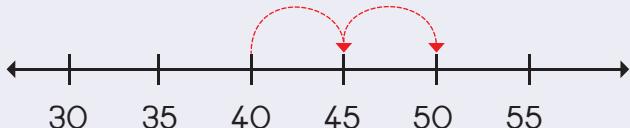


Sika iinomboro ezitlhayelako kibo
Sika bakho besi - 2 bese
uzibeke phezu kwenambalayini.

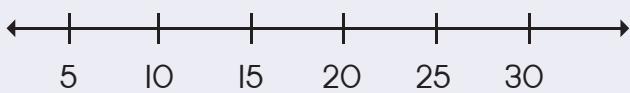


Gwala amawulawubhu ukutjengisa okulandelako:

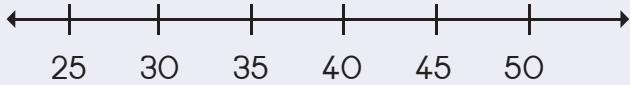
40, 45, 50



10, 15, 20



25, 30, 35



Teacher:
Sign:
Date:





Ilanga:

Amaphetheni weenomboro

Ithemu 3

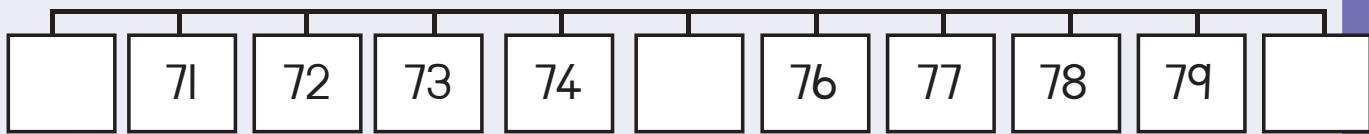
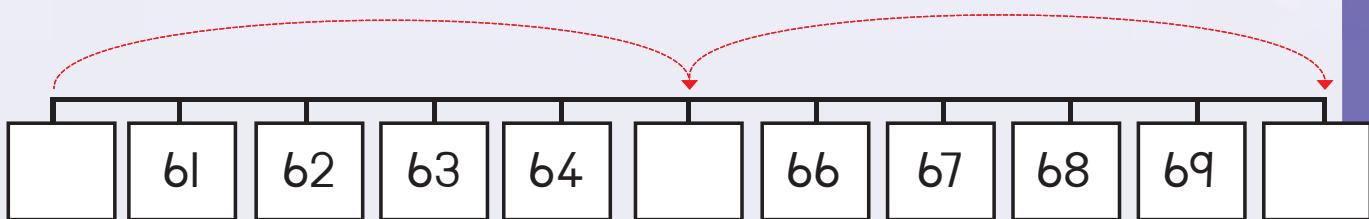
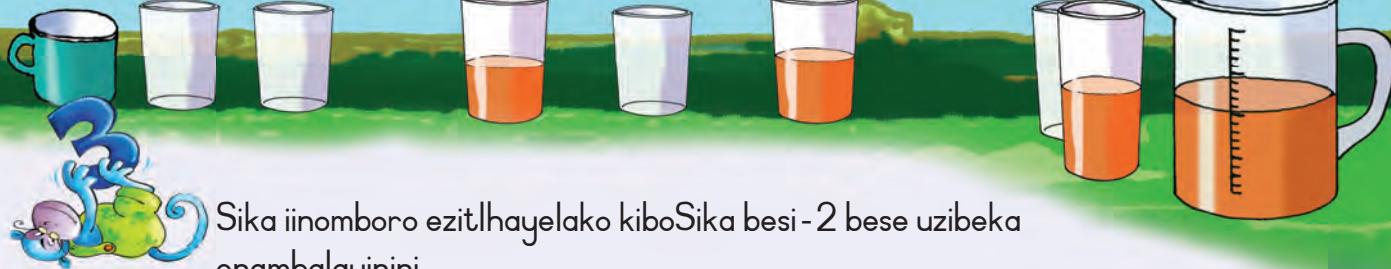


Esithombeni, ubona amabuthelelo wangakuhanu amangaki?



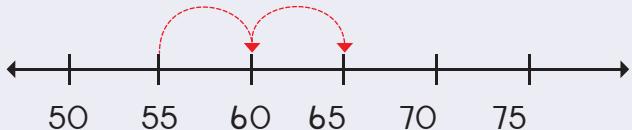
Qedelela iinthombe ezilandelako ukutjengisa amabuthelelo amabili
wangakuhanu ebbhogweni ngalinye.



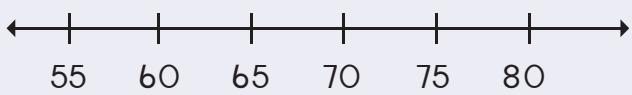


Gwala amawulawubhu ukutjengisa okulandelako:

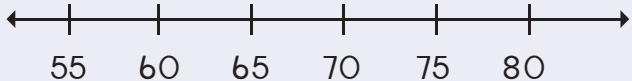
55, 60, 65



65, 70, 75



70, 75, 80



Teacher:
Sign:
Date:



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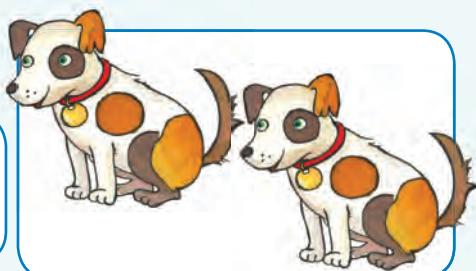
Ukubuyelela kibili



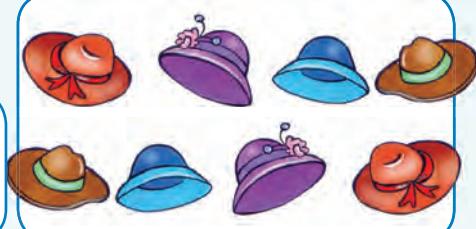
Buyelela kibili izinto bese utlola ipendulo.



u-1 nakabuyelelw
kibili, ipendulo



u-4 nakabuyelelw
kibili, ipendulo



u-5 nakabuyelelw
kibili, ipendulo



Bala amajamo wephiko leviyaviyani ngalinye.

Qedelela inomboro ebuyelelw kibili emutjhweni weenomboro.



$$7 + 7 =$$

nanyana

u-7 obuyelelw kibili =



$$5 + 5 =$$

nanyana

u-5 obuyelelw kibili =

$$2 + 2 =$$

nanyana

u-2 obuyelelw kibili =





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

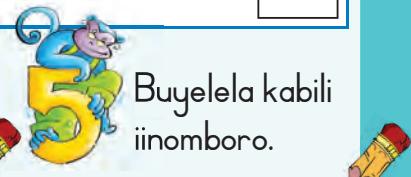
Qedeleta okulandelako:

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



Bala amacaphazi bese uwabuyeletelewe kibili.

	1	ukubuyeletelewe kibili →		2
	2	ukubuyeletelewe kibili →		
	3	ukubuyeletelewe kibili →		
	4	ukubuyeletelewe kibili →		
	5	ukubuyeletelewe kibili →		



Buyelela kibili iinomboro.

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



Qedeleta okulandelako:

Iveke inamalanga amangaki?

Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Imveke ezimbili zinamalanga amangaki?

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

Ubona iinyawo ezingaki?



Kwanje ubona iinyawo ezingaki?



Sithi oku-2 nakubuyeletelewe kibili kwenza oku-4.
Kuzokubayini isiquntu/ihafu yaka-4?



Qedeleta okulandelako:

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

Teacher:
Sign:
Date:

Clipboard icon



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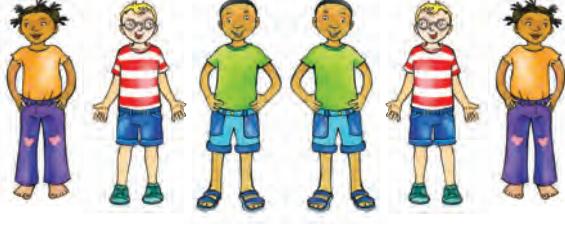
Amahafu



Tlola isiphambano phezu kwehafu yabantwana bese utlola ipendulo.



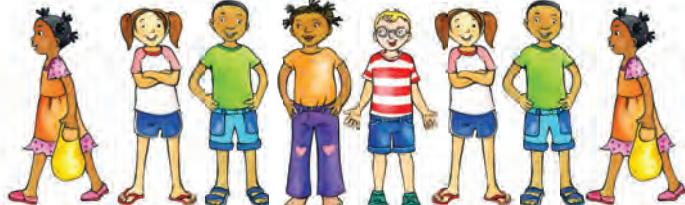
Ihafu yaka-4 _____



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 =



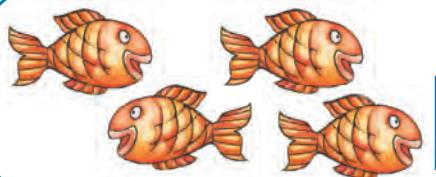
Ihafu yaka-6 =



Ihafu yaka-10 =

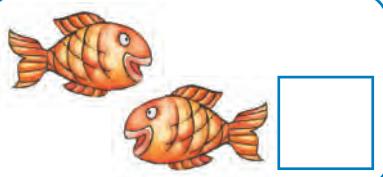


Kuneehlambi
ezingaki?





Ihafu
yeenhlambi
ilingana?





Bala amacaphazi bese uwahafulé.

	2	ihafu →		I
	4	ihafu →		
	6	ihafu →		
	8	ihafu →		
	10	ihafu →		



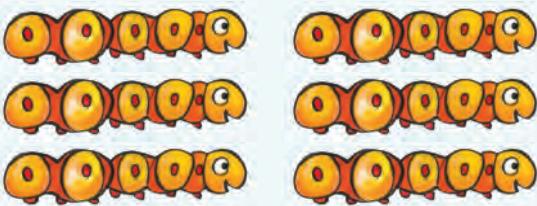
Hafula iinomboro.



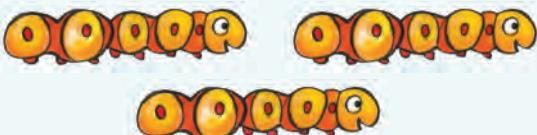
4	ihafu →	2
8	ihafu →	
6	ihafu →	
10	ihafu →	
12	ihafu →	
14	ihafu →	



Kuneembungu ezingaki?



Ihafu yeembungu ilingana na -:





Phendula okulandelako:

Kuneenyawo ezingaki?



Kwanje kuneenyawo ezingaki?



Sithi ihafu yaka - 8 ilingana



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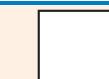
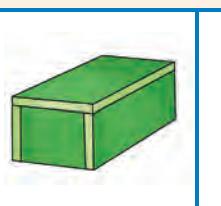
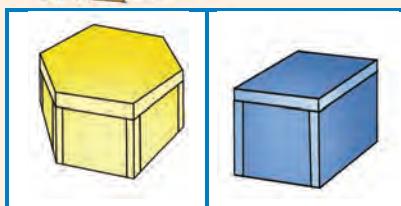
20



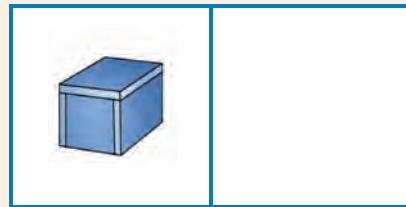
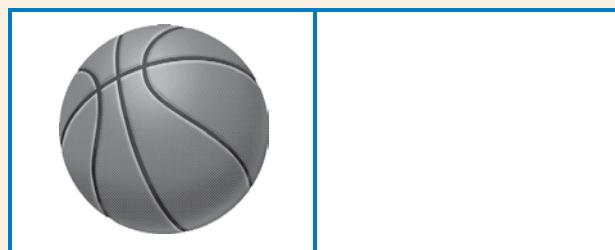
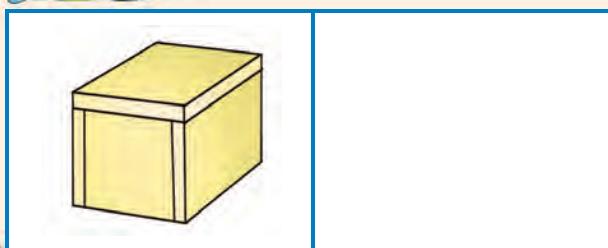
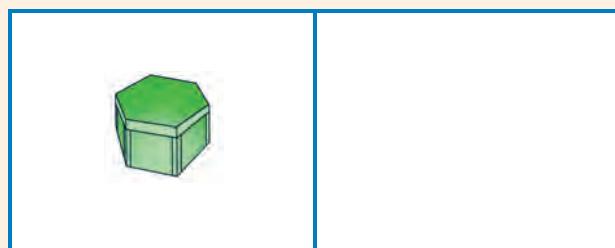
Ilanga:

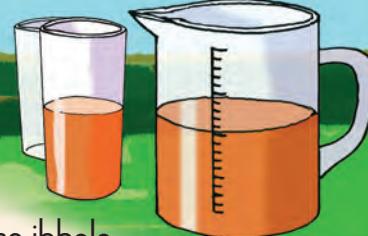


Thika into encani khulu.



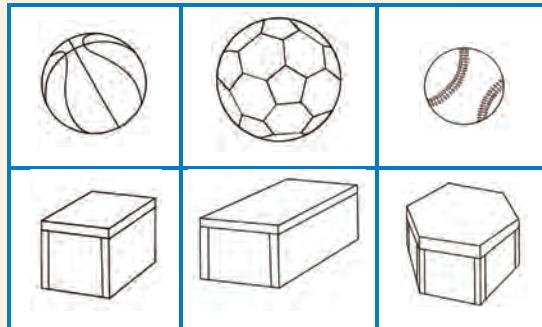
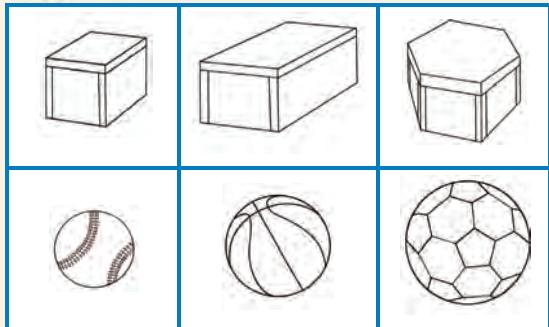
Gwala into ekulu ngesandleni sokudla sesithombe esinye nesinye.

Gwala ibholo ekulu khulu bese
ulandelise ngebhola ehlaza
sasibhakabhaka.Gwala ibholo encani kubeyibholo
esamlotha.Gwala ibhoksi elincani
kunebhoksi elisarulani.Gwala ibhoksi elikhulu
kunebhoksi elihlaza satjani.



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.



iye

awa

iye

awa

iye

awa



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

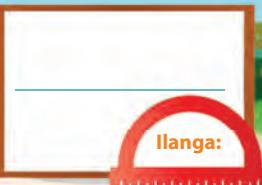
Khumbula:
Imibhotjhongo kumele
ibhalanse.



Teacher:
Sign:

Date:





Izinto ezima - 3D – Ukutjhelela nokugedeka



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

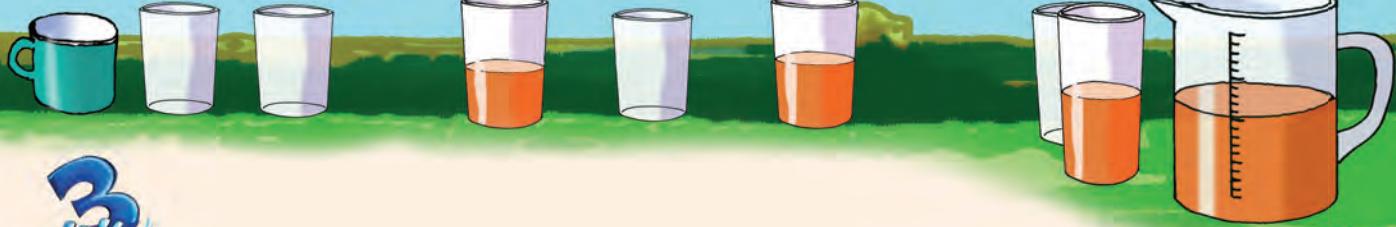
awa



iye

awa





3

Hlela izinto ezilandelako ngokuthi uzigwale ngaphakathi kwebhlogo elinembako.

	<p>Iimbholo</p>	<p>Amabhoksi</p>
--	-----------------	------------------

4

Hlela izinto ezilandelako ukuya ngobukhulu bazo bewuzigwale.

	<p>Iimbholo ezincani</p>	<p>Amabhoksi amancani</p>
	<p>Iimbholo ezikulu</p>	<p>Amabhoksi amakhulu</p>



Amaphetheni wejiyomethri

Ukubuyekeza:

Gwala okulandelako:

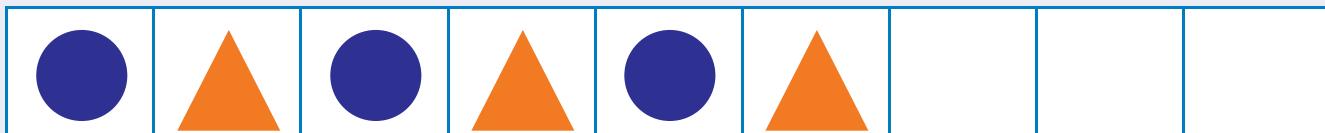
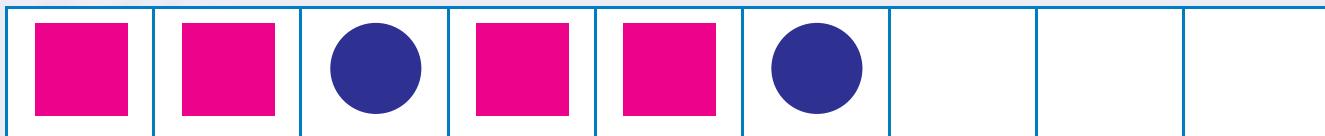
Isiyingi

Isikwere

Uncane/irekthengela



Qedelela amaphetheni.





Yenza umgwalo uqedelele iphetheni.



Gwala amaphetheni ekungewakho.



Namathisela iinthombe ukwenza iphetheni ekungeyakho.

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



Qedelela iphetheni elandelako:

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

11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



90



Ilanga:

Amabuthelelo wangakubili bekufike e - 15

Ithemu 3



Tlola ibizo lenomboro ejanyelwe litshwayo.

2

kubili



Phendula imibuzo.

Ubona amaphengwini amangaki?



Ubona iimpara zeenyawo ezingaki?

Tlola ipendulo yakho njengenomboro.



Phendula imibuzo.

Ubona iiincwadi ezingaki?



Ungenza amabuthelelo wangakubili amangaki?

Tlola ipendulo njengomutjho weenomboro.



Tlola ibizo lenomboro ejanyelwe litshwayo.

4



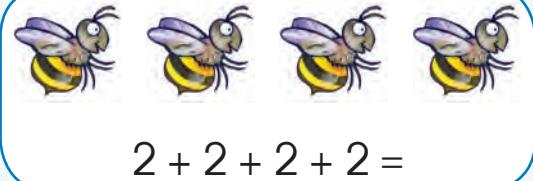
Bala iimpiko, bese uqedelela ngependulo.



$2 + 2 =$



$2 + 2 + 2 =$



$2 + 2 + 2 + 2 =$



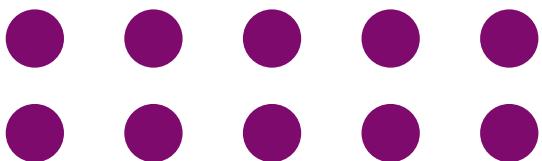


Gwala iiyangi undulungele okulandelako ukubeka:

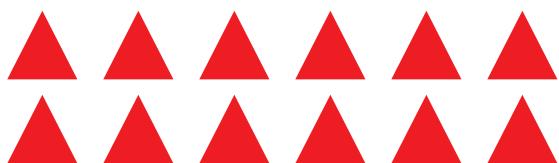
Amabuthelelo ama - 4 wangaku - 2



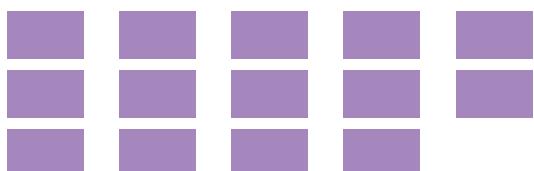
Amabuthelelo ama - 5 wangaku - 2



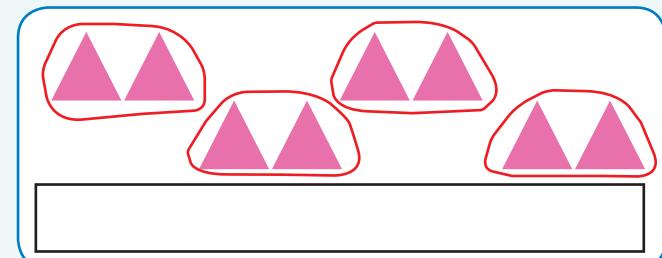
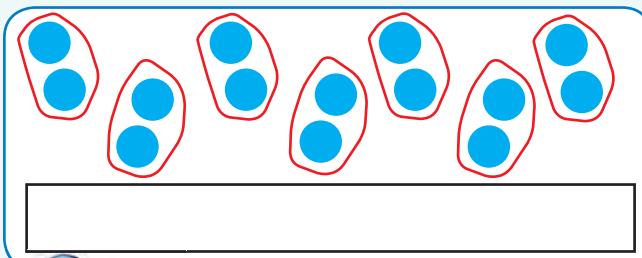
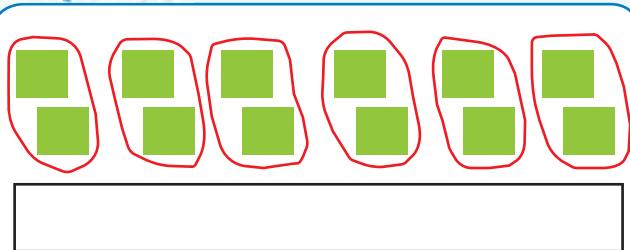
Amabuthelelo asi - 6 wangaku - 2



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



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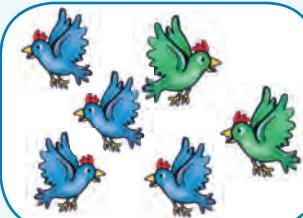
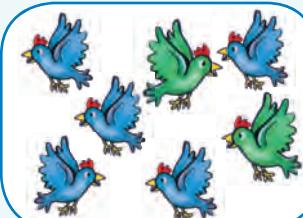
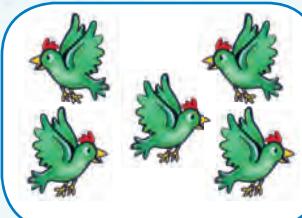
Ilanga:

Ithemu 3

Ukuhlanganisa okubuye lelwe kibili bekufike e - 15



Ubona imilenze emingaki?



Ubale njani?



Gwala amajamo ukutjengisa okulandelako:

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



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



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

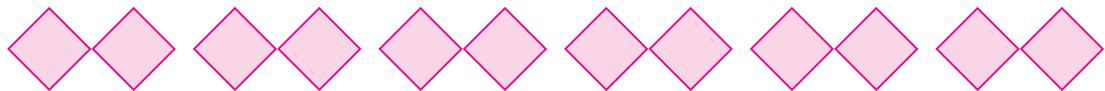


$$2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad}$$





Tlola umutjho weenomboro walokhu okulandelako:



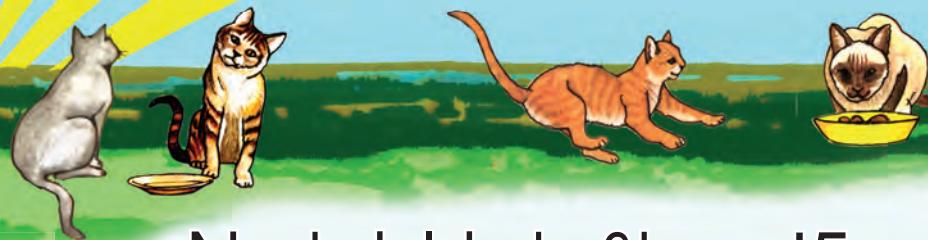
Ndulungela bewubale kobana mabuthelelo amangaki wangakubili ongawabeka ekaradeni ngalinye.



Qedelela iphetheni yeenomboro ukwenza amabuthelelo amabili wangakubili.

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





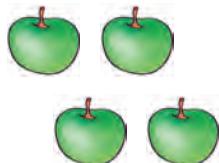
Tlola inomboro etlhayelako.

- | | | | | | | | | | | | | | |
|----|----------------------|----------------------|----|----------------------|----------------------|----|----------------------|----------------------|---|----------------------|----------------------|---|----------------------|
| I | <input type="text"/> | <input type="text"/> | 3 | <input type="text"/> | <input type="text"/> | 5 | <input type="text"/> | <input type="text"/> | 7 | <input type="text"/> | <input type="text"/> | 9 | <input type="text"/> |
| II | <input type="text"/> | <input type="text"/> | I3 | <input type="text"/> | <input type="text"/> | I5 | <input type="text"/> | <input type="text"/> | | <input type="text"/> | <input type="text"/> | | <input type="text"/> |

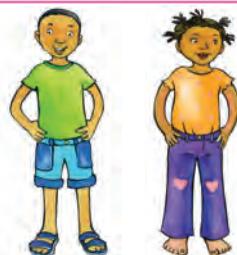
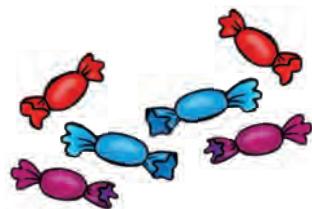


Beka amabuthelelo wangakubili.

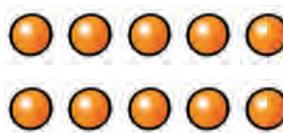
Ndulungela elinye nelinye ibuthelelo langakubili.



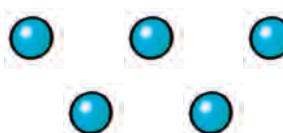
Kunamabuthelelo wama-apula
amangaki?
Umntwana ngamunye
uzokufunyana ama-apula
amangaki?



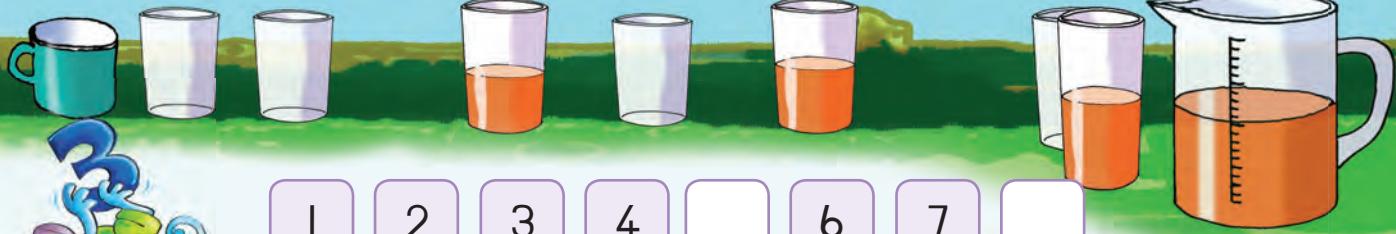
Kunamabuthelelo wamaswidi
amangaki?
Umntwana ngamunye
uzokufunyana amaswidi
amangaki?



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.

 $2 + 2 + 2 + 2 + 2 + 2 + 2 =$ <input type="text" value="14"/>	 <input type="text"/> <input type="text"/>
 <input type="text"/> <input type="text"/>	 <input type="text"/> <input type="text"/>

Balisisa 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 emudeni ngamunye.



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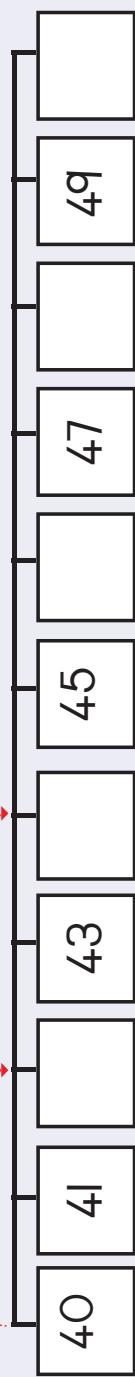
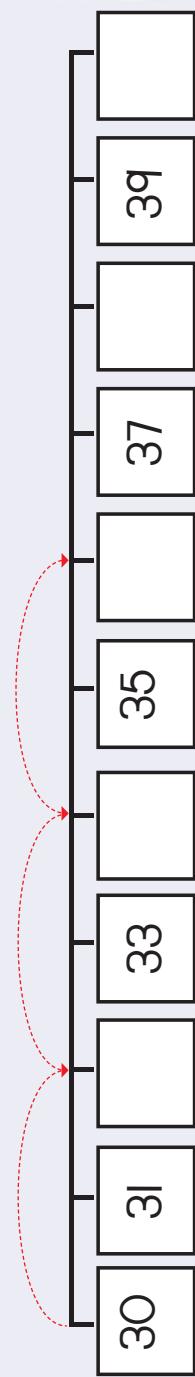


Ilanga:

Amaphetheni wangaku - 2 ukufika ema - 50



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



Qedeleta iphetheni ngokuthi ukhalar
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

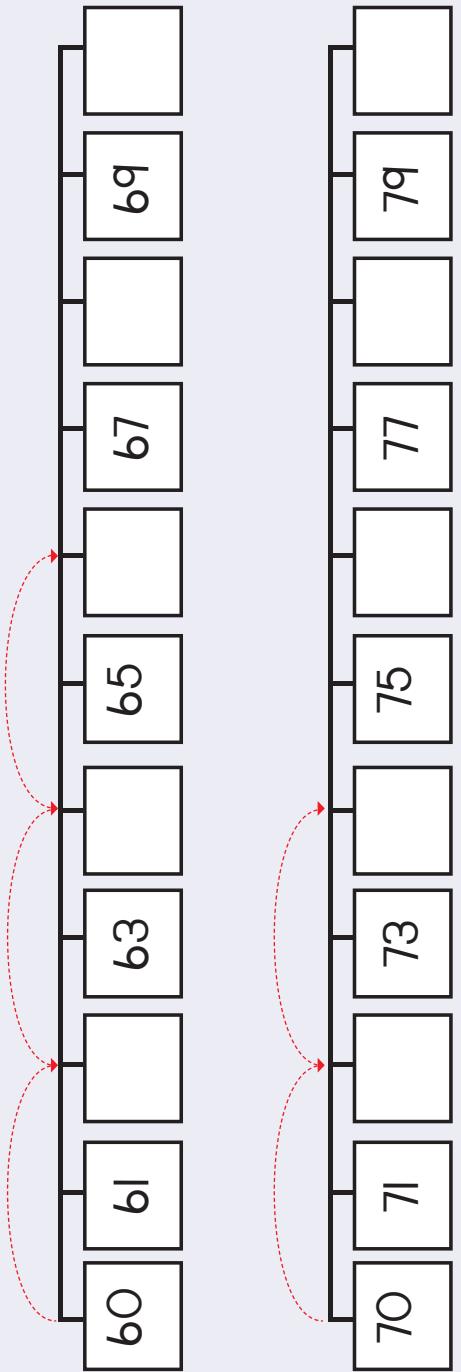
38 40 42 44 46 48

46, 48, 50

40 42 44 46 48 50



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



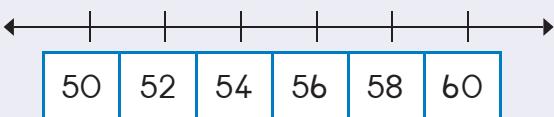
Qedelela iphetheni ngokuthi ukhalare iinomboro ekungizo.

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

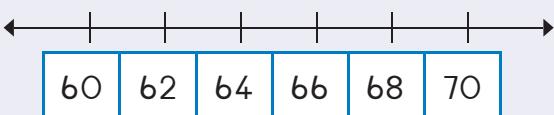


Gwala amawulawubhu ukutjengisa okulandelako:

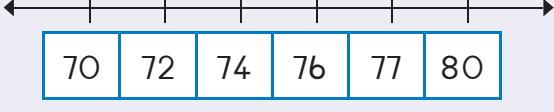
54, 56, 58



64, 66, 68



72, 74, 76



Teacher:
Sign:
Date:



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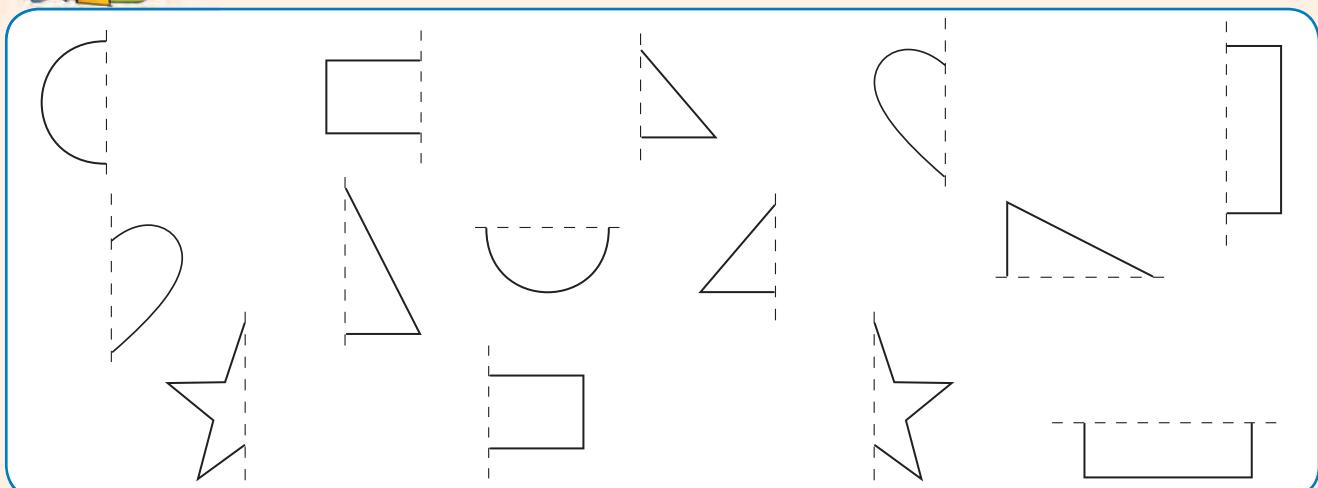
Ilanga:

Ithemu 3

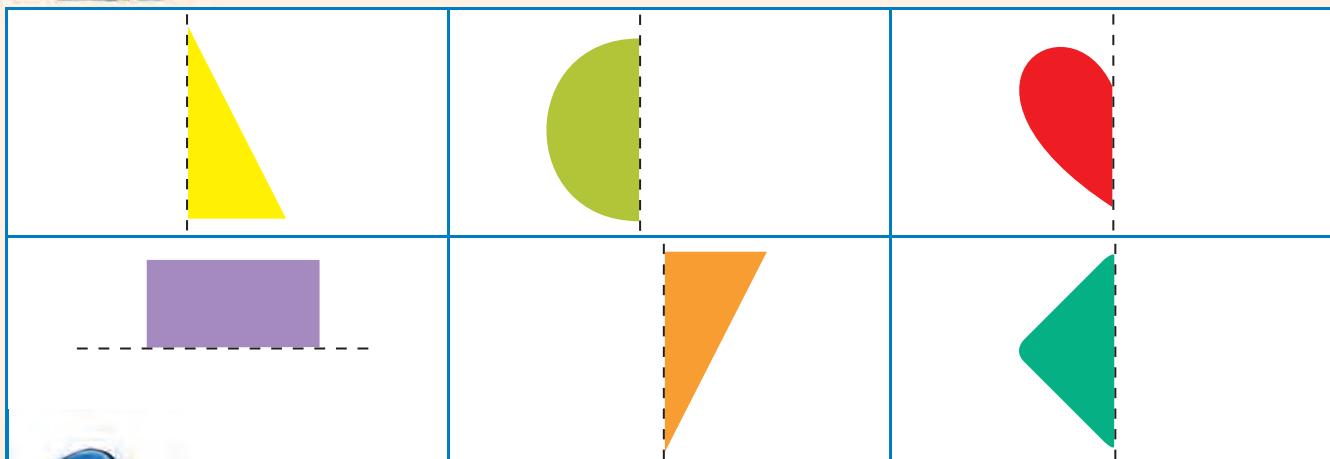
Ukubandeka - bulingana / Isimethri



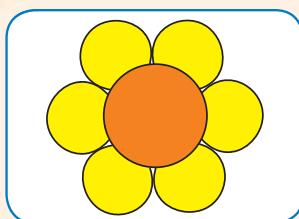
Khalara amahlangothi amabili alinganako wamajamo azokwenza ijamo elilodwa.



Gwala enye ihafu bese uyayikhala.



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



60

0

1

2

3

4

5

6

7

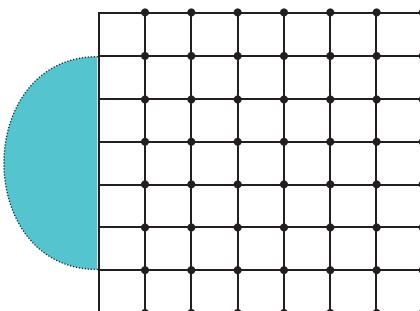
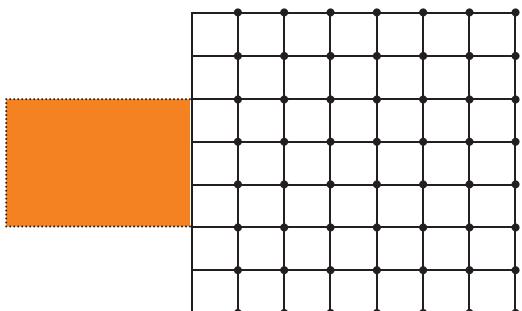
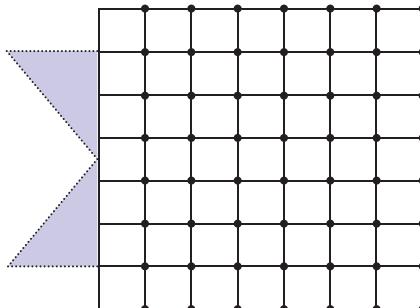
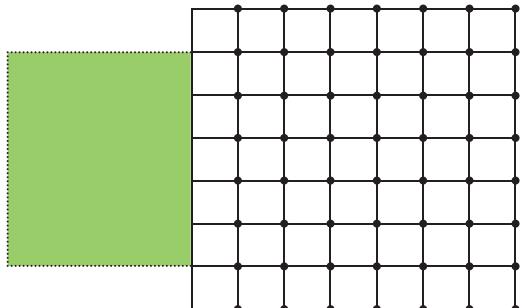
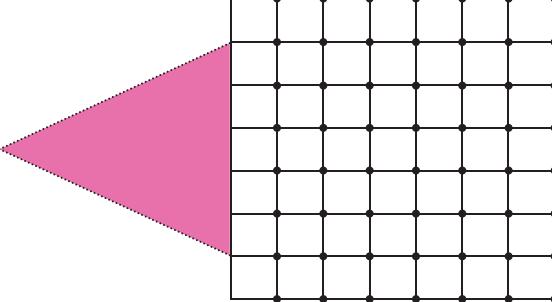
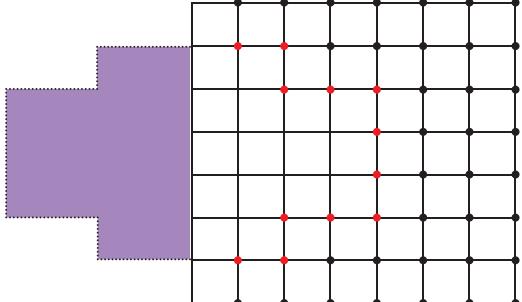
8

9

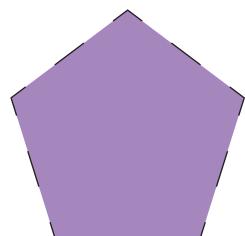
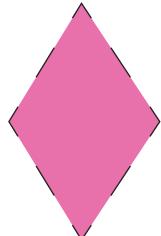
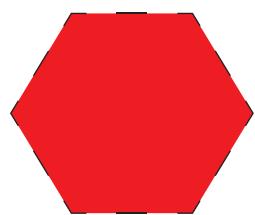
10



Gwala enye ihafu yejamo usebenzise ibhodo yegriddi ukuze ikuhlahle.



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



Teacher:
Sign:
Date:



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Ithemu 3

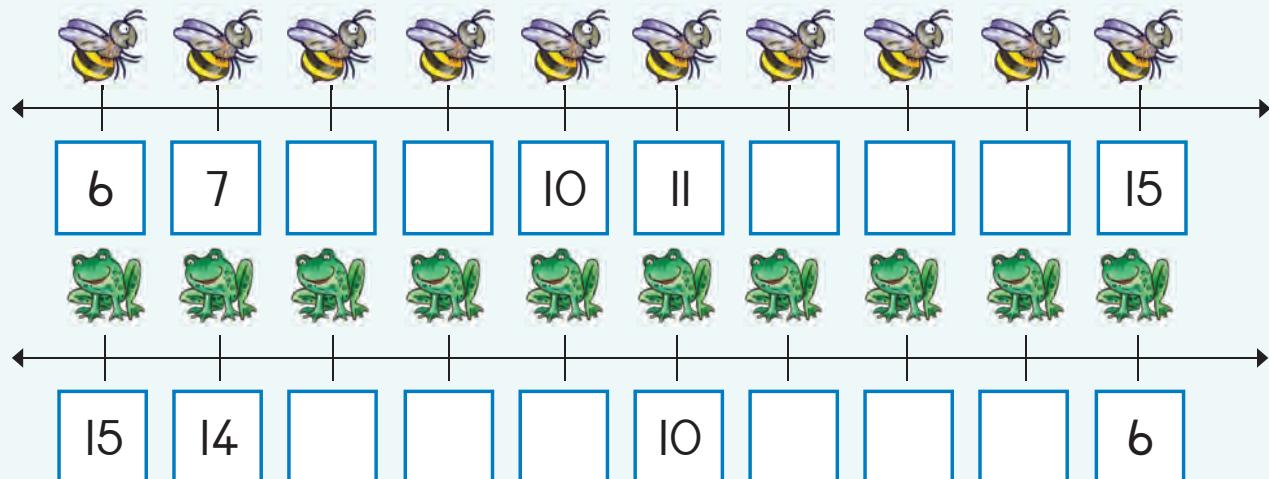


Ukutlola iinomboro ezithayelako.

10	II					15
q	10					



Ukutlola iinomboro ezithayelako.



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. Qalisia isibalo sokuthoma owenzelwe
sona.



10 + 1 ngombala obovu



10 + 3 ngombala opinki



10 + 5 ngombala
ohlaza sasibhakabhaka



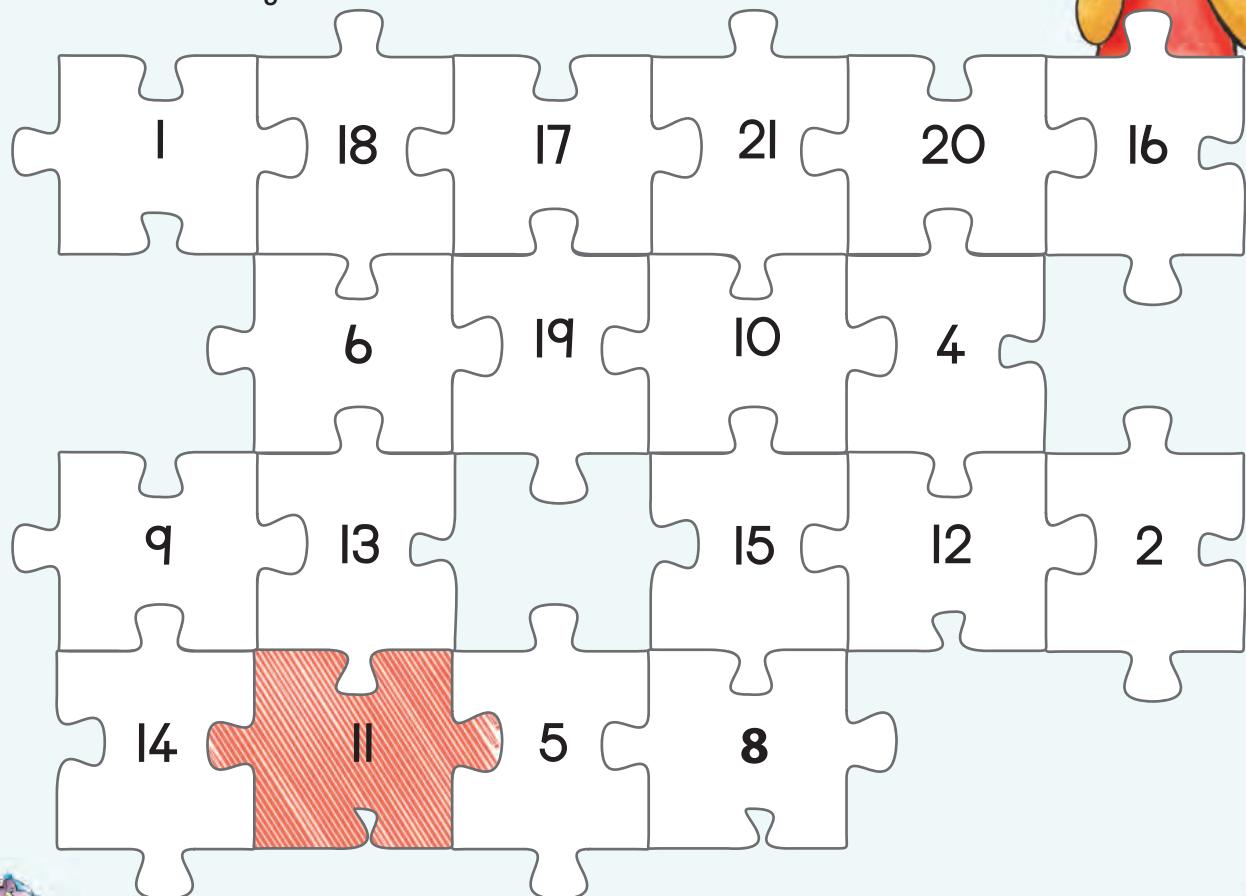
10 + 4 ngombala osarulani



10 + 0 ngombala
ohlaza satjani



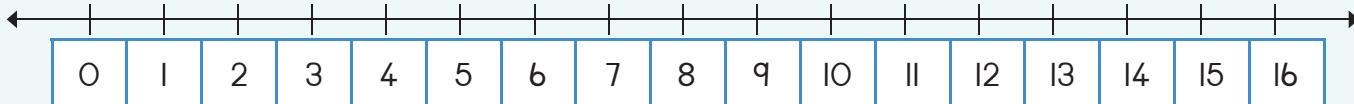
10 + 2 ngombala o-orentji



Tjengisa itjhumi nakune enambalayinini.



Teacher:
Sign:
Date:



11

12

13

14

15

16

17

18

19

20



96



Ilanga:

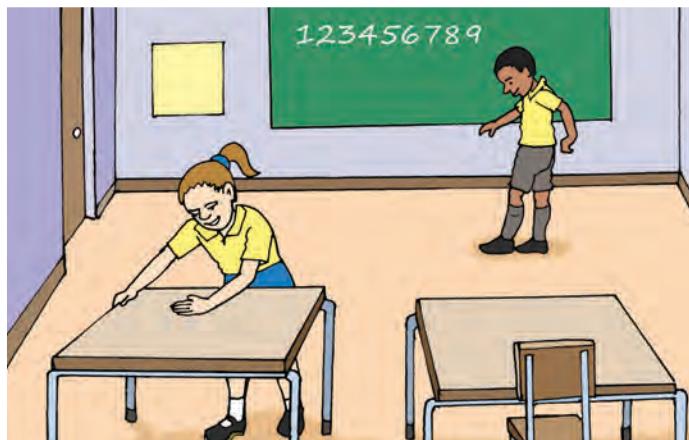
Ubude

Itthemu 3



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

Ububanzi betafula buthatha izandla ezingaki?

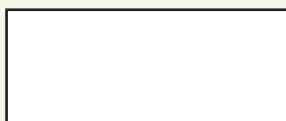


Ubude zizandla _____.

Ububanzi zizandla _____.



Magadango amangaki weenyawo enza ihlangothi?



Qedelela ngependulo.



Ubude zizandla _____.



0

1

2

3

4

5

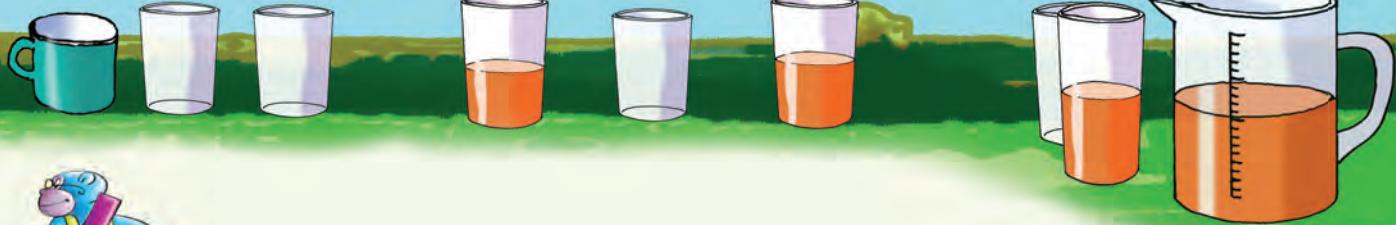
6

7

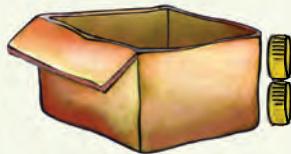
8

9

10



Yini ubude kanye nobubanzi bebhoksi?



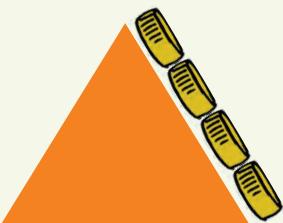
Ubude bulingana neemvalo
zamabhodlelo ____.

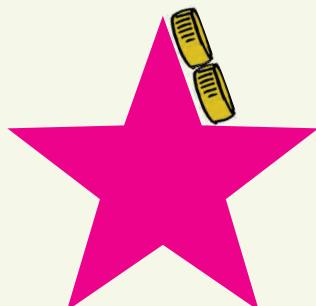
Ububanzi bulingana neemvalo
zamabhodlelo ____.



Ubude behlangothi bulingana neemvalo zamabhodlelo ezingaki?









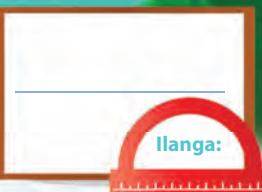
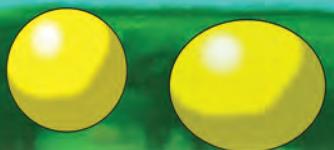
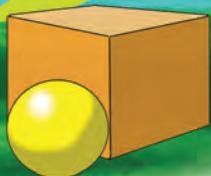


Teacher:
Sign:

Date:



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Ithemu 4

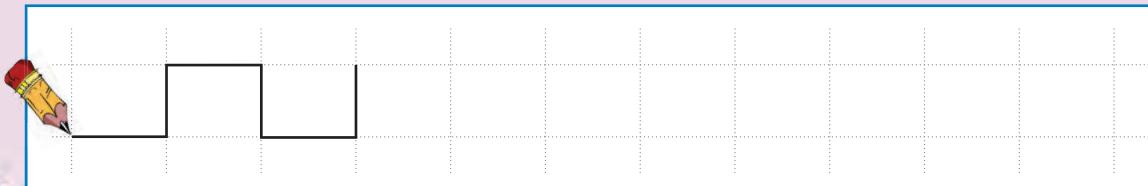
Inomboro ye -16

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

7

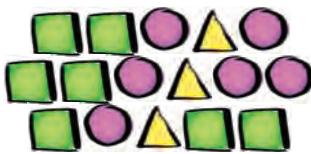
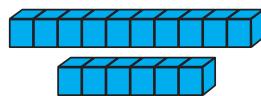
khomba



Madanisa iinthombe.



Gadangisa iinomboro.



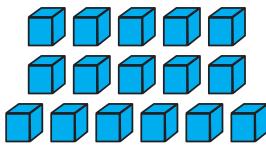
16 16 16 16

itjhumi nesithandathu

16

16 16 16 16

itjhumi nesithandathu



Ndulungela imincamo eli-16 kwaphela.

10

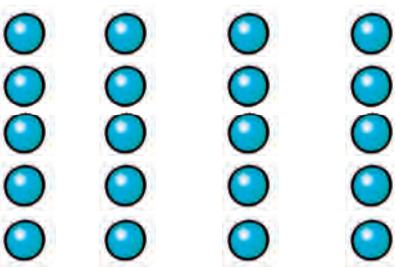
6

16



10

6



Kusele imincamo emingaki? _____



0

1

2

3

4

5

6

7

8

9

10



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



Ijini inomboro encani ngakunye
ku-16? _____

Ijini inomboro ekulu ngakunye
ku-16? _____



Ijini enomboro encani ngakunye etjhumi nesithandathu?

Ijini inomboro encani ngakubili etjhumi nesithandathu?

Ijini inomboro ekulu ngakunye etjhumi nesithandathu?

Ijini inomboro ekulu ngakubili etjhumi nesithandathu?



Tlola iinomboro ezitlhayelako.

10	9		7	6		4	3		1

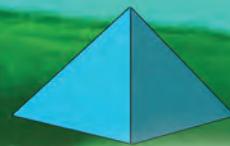
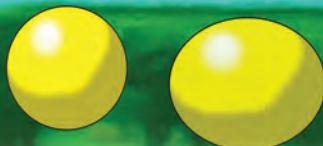
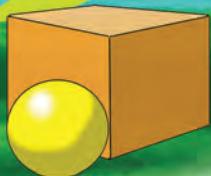
11 12 13 14 15 16 17 18 19 20



Teacher:
Sign:
Date:



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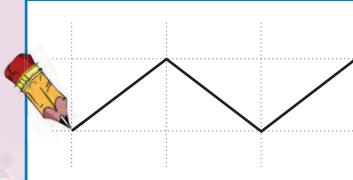
Inomboro ye -17

Ukubuyekeza:

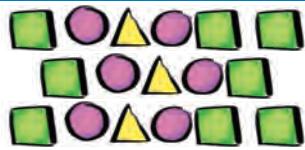
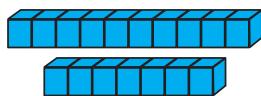
Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

8

bundane



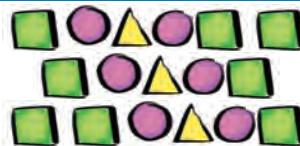
Madanisa iinthombe.



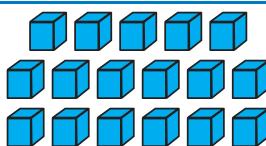
10

7

17



17



10

7

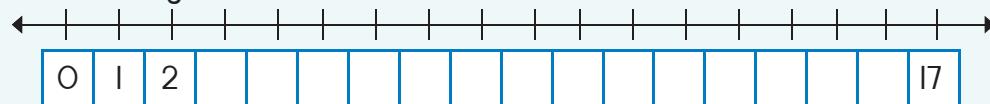
17 17 17 17

itjhumi nekhomba

17 17 17 17

itjhumi nekhomba

Qedelela inambalayini.



Gwala izinto ezili -17.



Kwanje zigwale
ngendlela eyahlukileko.



Ngiyiphi inomboro
eza ngemva?

16	17	
24	25	
17	18	



Qedeleta 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?



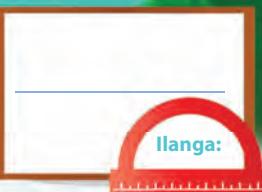
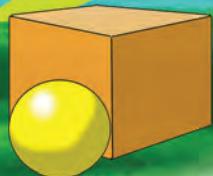
Qedeleta ngenomboro etlhayelako.

Lezi ziinomboro ezibizwa
ngalezo ezingalingalinganiko.

	2		4		6		8		10
	12		14		16		18		20



qq



Ithemu 4

Inomboro ye -18

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

q

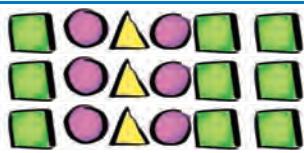
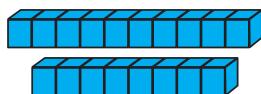
ithoba



Madanisa iinthombe.



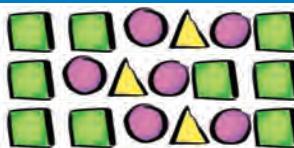
Gadangisa iinomboro.



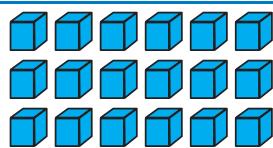
10

8

18



18



10

8

18 18 18 18

itjhumi nobunane

18 18 18 18

itjhumi nobunane

Qedelela inambalayini.





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



Iyini inomboro encani ngakunye etjhumi nobunane?

Iyini inomboro ekulu ngakubili etjhumi nobunane?

Iyini inomboro ekulu ngakunye etjhumi nobunane?

Iyini inomboro ekulu ngakubili etjhumi nobunane?

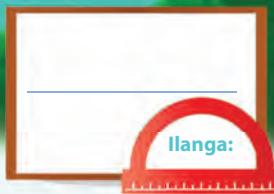
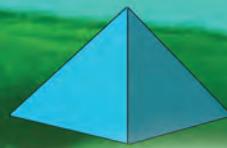
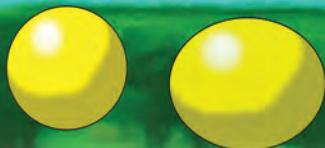
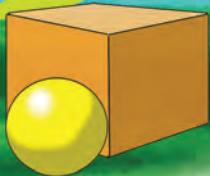


Qedelela ngenomboro etlhayelako.

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



100



Ithemu 4

Inomboro ye - 1q

Ukubuyekeza:

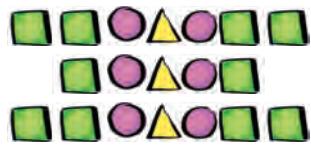
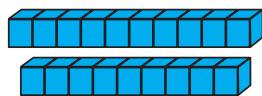
Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

10

itjhumi



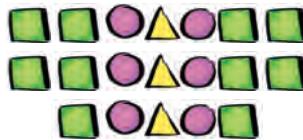
Madanisa iinthombe.



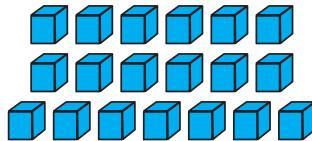
10

q

1q



1q



10
q



Gadangisa iinomboro.

1q 1q 1q 1q

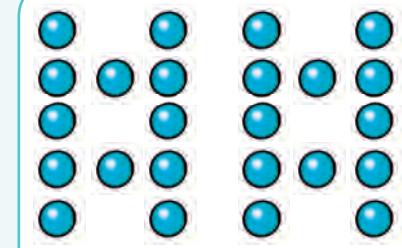
itjhumi nethoba

1q 1q 1q 1q

itjhumi nethoba



Ndulungela imincamo eli-1q kwaphela.



Kusele imincamo emingaki? _____



0

1

2

3

4

5

6

7

8

9

10



Gwala izinto ezili - Iq.

Kwanje zigwale
ngendlela eyahlukileko.



Ngijiphi 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?

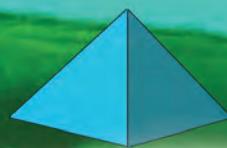
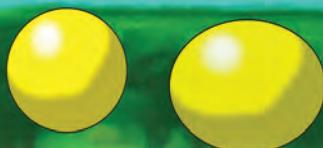
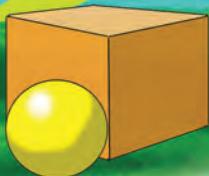


Qedelela ngenomboro etlhayelako.

Lezi ziinomboro ezaziwa
ngezilingalinganako.

I		3		5		7		9	
II		13		15		17		19	





Madanisa iinthombe.



Gadangisa inomboro.

Ndulungela
imincamo
ema-20
kwaphela.

Kusele imincamo emingaki? _____

Kusele imincamo emingaki? _____

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

		amatjhumi amabili
		amatjhumi amabili

Iyini inomboro encani ngakunye
ematjhumi amabili? _____Iyini inomboro ekulu ngakunye
ematjhumi amabili? _____



Hlanganisa
inomboro
nebizo.

0
1
2
3
4
5
6
7
8
q
10
II
I2
I3
I4

0

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

0



Qedelela ngenomboro
etlhayelako.

Ngaphambili		Ngemva
I6	I7	
	I2	
	I4	
	q	I0
	6	

II

I2

I3

I4

I5

I6

I7

I8

I9

20



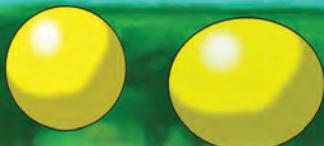
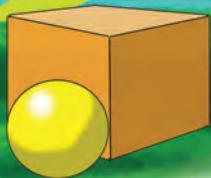
Sebenzisa ukuncani nanyana
kukhulu ukuqedelela okulandelako:

u-35 _____ kunama-38

u-79 _____ kunama-65



102



Ukuhlanganisa

Ithemu 4



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.

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



Ngezelela ngamabhlogo.

 $10 + 2 + 3 = 15$	 $10 + 5 = 15$	 $10 + 3 + 2 = 15$



Tlola umutjho weenomboro walokhu okulandelako:

 $10 + 4 + 5 = 19$	 $10 + 3 + 3 = 16$	 $10 + 5 + 6 = 19$



76

0

1

2

3

4

5

6

7

8

9

10



Tlola umutjho weenomboro wokhunye nokhunye kwalokhu
okulandelako:



$$8 + 4 = 12$$

$$10 + 2 = 12$$



Qedelela ngeenomboro ezilandelako:

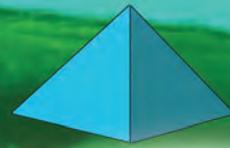
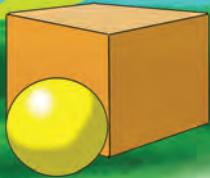
	+	14	=	17
9	+		=	20
12	+	8	=	
15	+		=	20
	+	6	=	13
14	+	3	=	0



Teacher:
Sign:
Date:



103



Ukukhupha

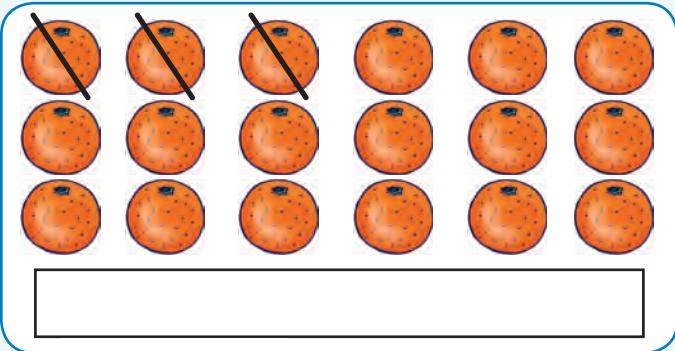
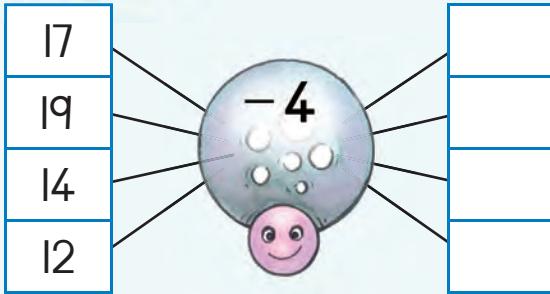
Ithemu 4



Balisa.



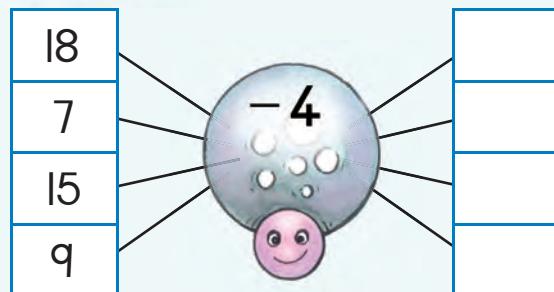
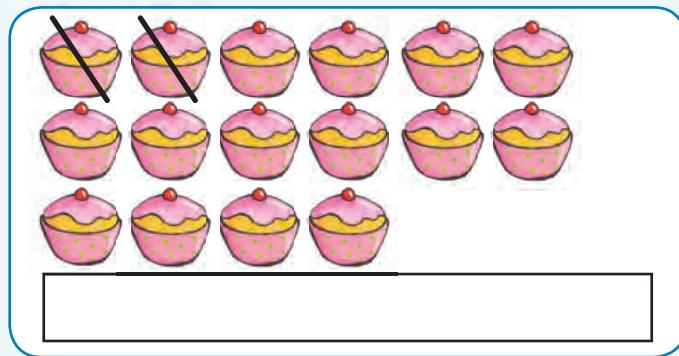
Tlola umutjho weenomboro.



Tlola umutjho weenomboro.



Balisa.



Qedelela iimbalo ngokuthi ugwale imigwalo.



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



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



0

1

2

3

4

5

6

7

8

9

10



Khupha amabhlogo.

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



Balisisa
okulandelako:

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



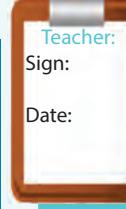
Balisisa okulandelako:

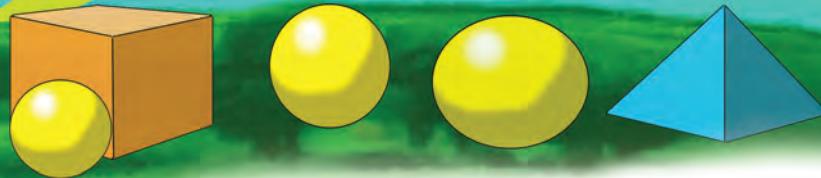
u-5 nakabuyeletwe kibili	<input type="text"/>	u-3 nakabuyeletwe kibili	<input type="text"/>	u-4 nakabuyeletwe kibili	<input type="text"/>
u-7 nakabuyeletwe kibili	<input type="text"/>	u-2 nakabuyeletwe kibili	<input type="text"/>	u-8 nakabuyeletwe kibili	<input type="text"/>
i-10 nalibuyeletwe kibili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



Phendula
okulandelako:

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





Ukuhlanganisa nokukhupha



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

Ithemu 4

$3 + \boxed{} = 8$

$4 + \boxed{} = 8$



Rarulula okulandelako.
Ungagwala imgwalo ukuze ikusize.



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

80

0

1

2

3

4

5

6

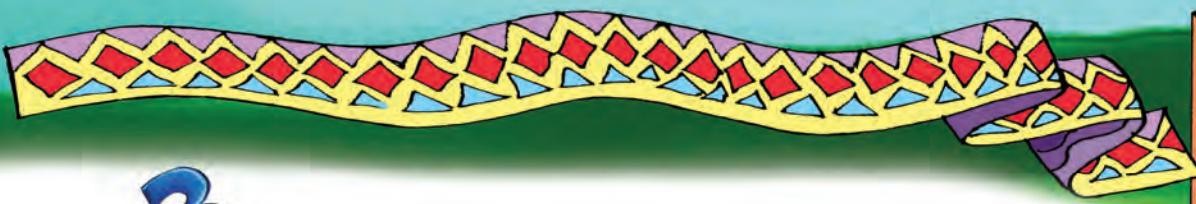
7

8

9

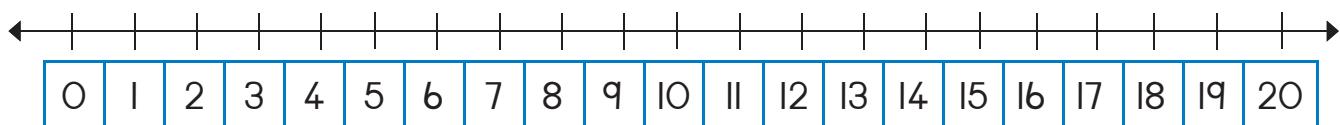
10



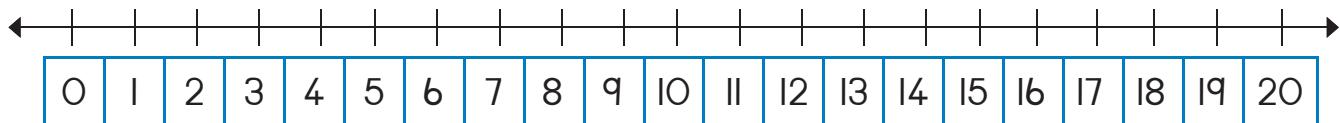


Sebenzisa inambalayini ukurarulula okulandelako:

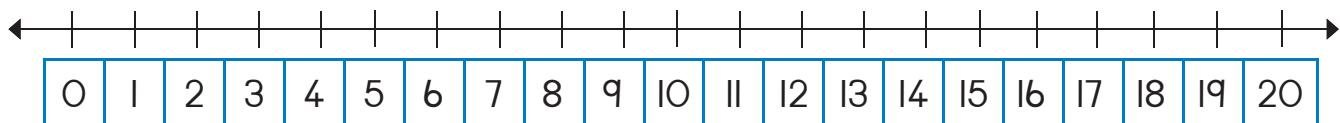
UThandi unamamabula asi-6 ahlaza satjani nali-9 ahlaza sasibhakabhaka. UThandi unamamabula amangaki sele awoke?



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.

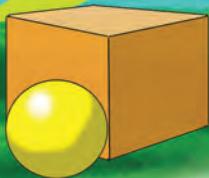
Ndulungela inomboro ekulu ngakunye kunama-76.

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

Ndulungela inomboro ekulu ngaku-2 kunama-76.

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





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.





Qalisisa 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 obovu.



Khalara ijamo lesihlanu ngombala osarulani.



Khalara ijamo lobunane ngombala ohlaza sasibhakabhaka.



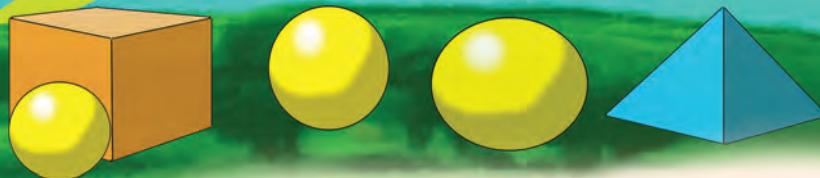
Gwala inambalayini esuka e-10 ukufika ema-20.

Ndulungela inomboro yesithathu neyobunane.



Teacher:
Sign:
Date:

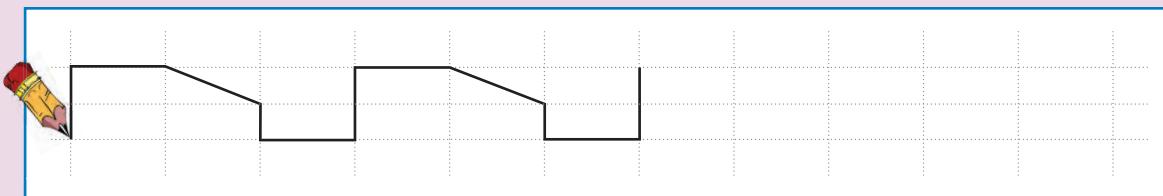




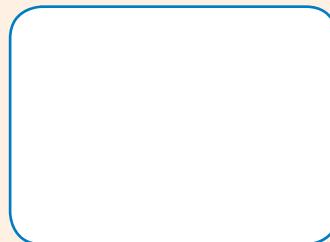
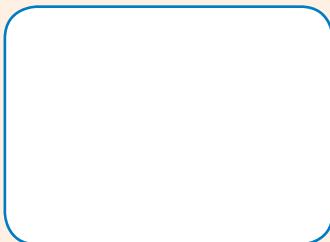
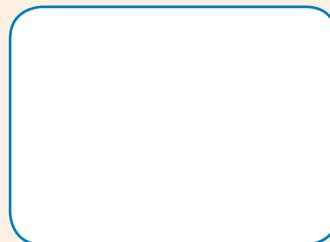
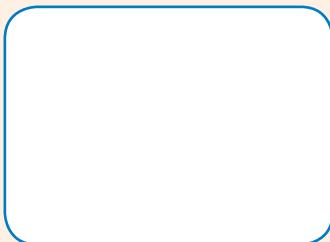
Izinto namajamo

Ukubuyekeza:

Ukubuyekeza: Madanisa amaphetheni.

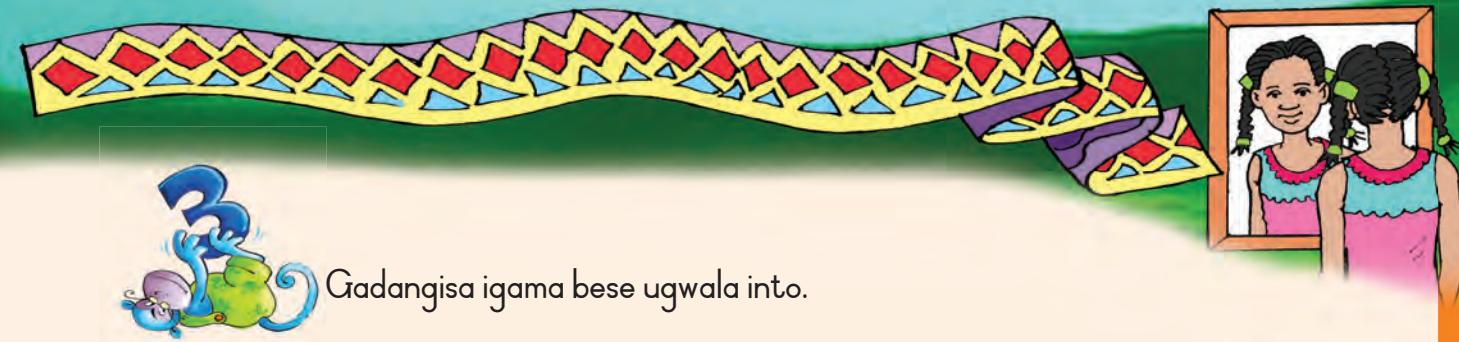


Funyana iinthombe ezimbili zebholo kanye nezimbili zebhoksi ephephandaben
nanyana kibomegazini bese uzinamathisela lapha ngenzasi.



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





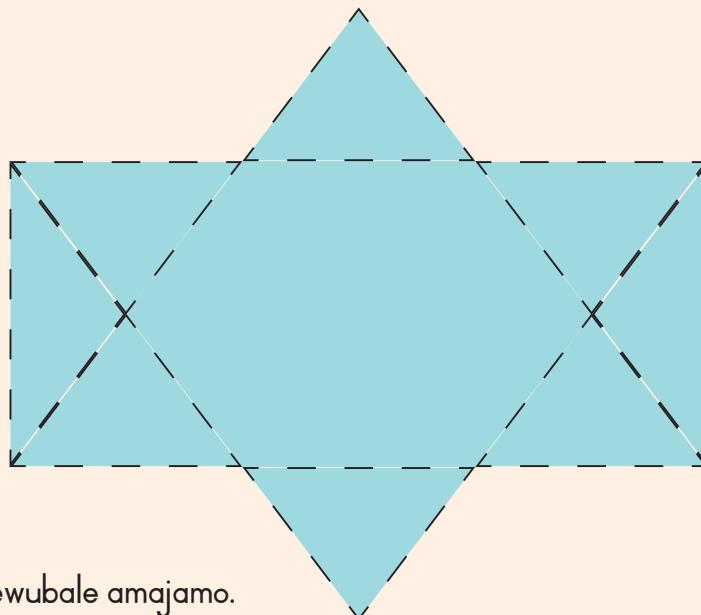
Gadangisa igama bese ugwala into.

Ibhoksi

Ibholo



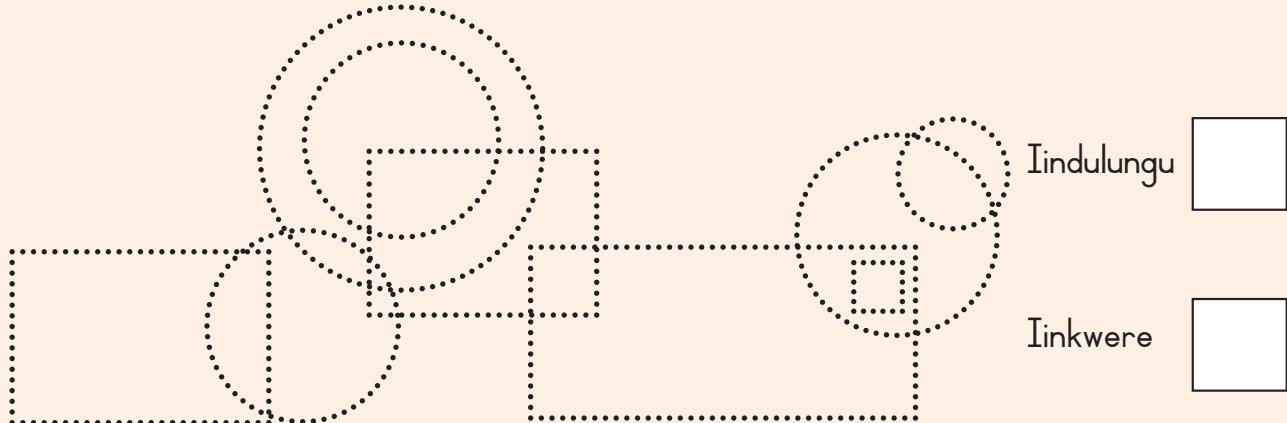
Bala aboncantathu bese utlola inomboro.



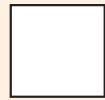
Ipendulo:



Gadangisa bewubale amajamo.



Iindulungu



Iinkwere



11

12

13

14

15

16

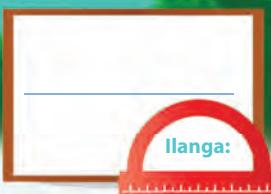
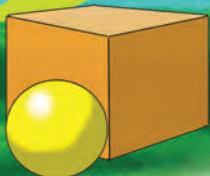
17

18

19

20

107



Imali

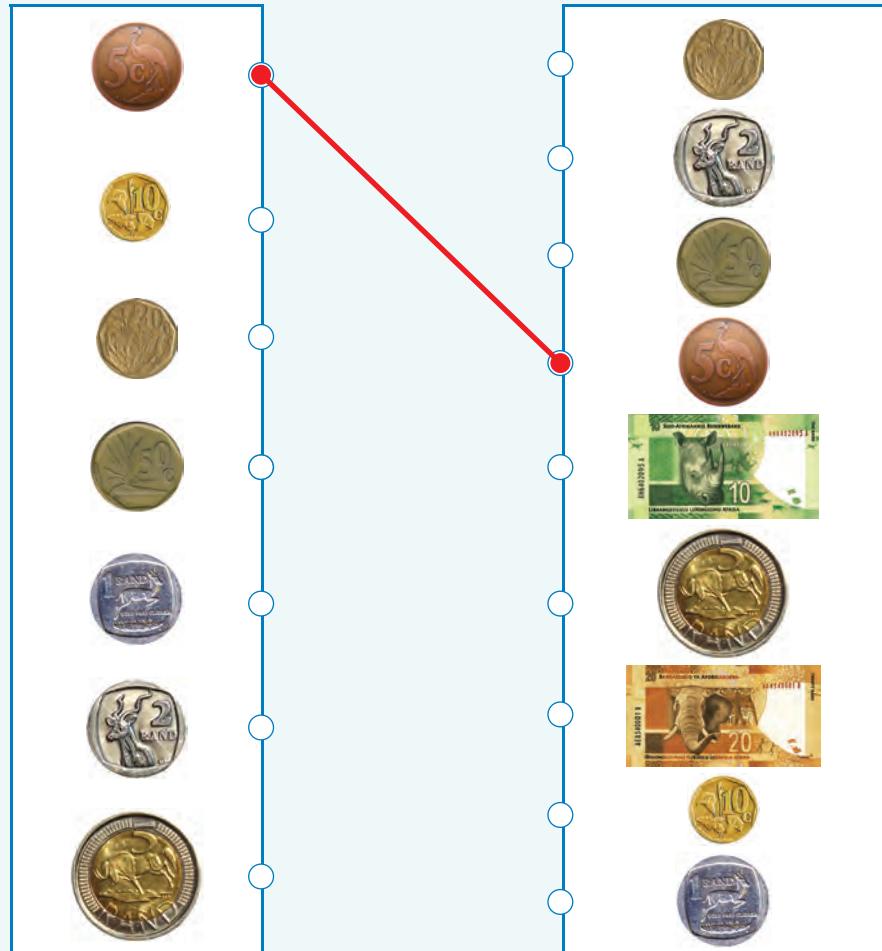
Ithemu 4



Ngiyiphi
imali yesimbi
ongayimadanisa
ndawonye?



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



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





Susa i-R2.



$$R12 - R2 = RIO$$



Susa i-R5



$$R15 - R5 = RIO$$



Ziimbalo zokuhlanganisa ezhilukeneko ezingaki ongazigwala ngemali ema-R20?

Sewenzelwe isibonelo esisodwa.



Ndulungela imali yesimbi
emudeni ngamunye
ongathenga ngayo okunengi.



Teacher:
Sign:
Date:



11

12

13

14

15

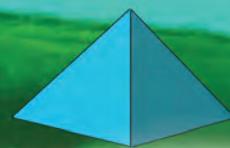
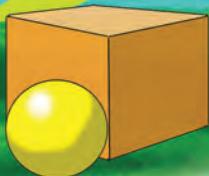
16

17

18

19

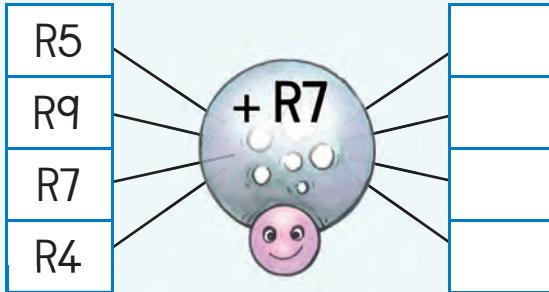
20



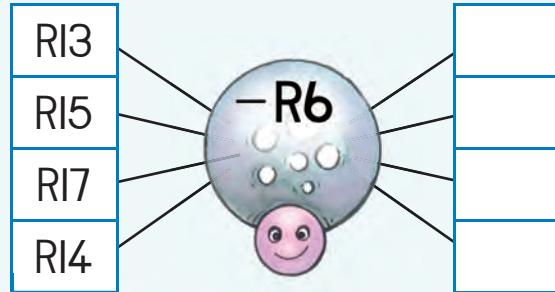
Ezinye iimbalo zemali



Balisisa.



Balisisa.

Qedelela 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 ezhelako bese uqedelela iimpendulo.

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



 Qalisisa 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	=		+	

Uthini umbuzo?

Tlola iinomboro.

Tlola isibalo bese uyabalisia.

 Umma kaBusi uthenge ingwani
yelanga ngama-RI7. Ubhadela
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 ihangene yoke?

Uthini umbuzo?

Uthini umbuzo?

Tlola iinomboro.

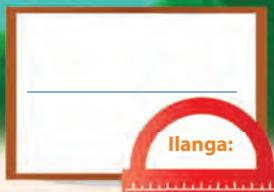
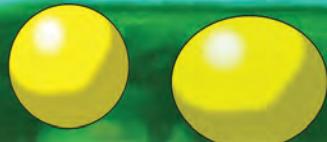
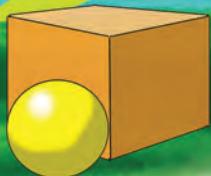
Tlola iinomboro.

Tlola isibalo bese uyabalisia.

Tlola isibalo bese uyabalisia.



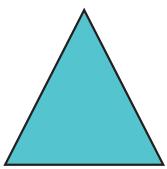
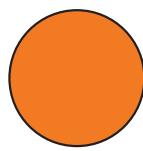
109



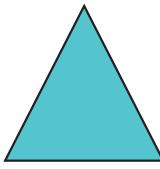
Amajamo ayi - 2D



Thika ijamo elincani khulu ebhlogweni ngalinye.

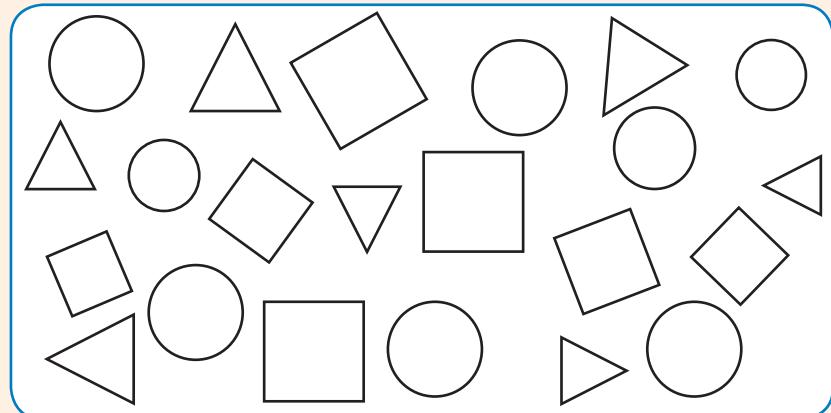


Thika ijamo elikhulu khulu ebhlogweni ngalinye.

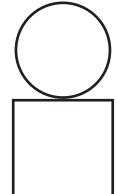


Khalara:

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



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



0

1

2

3

4

5

6

7

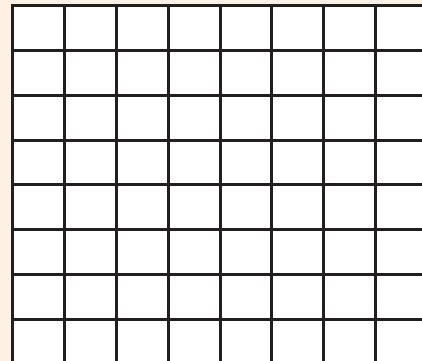
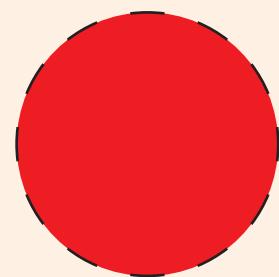
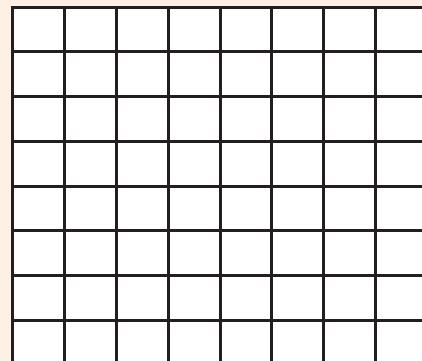
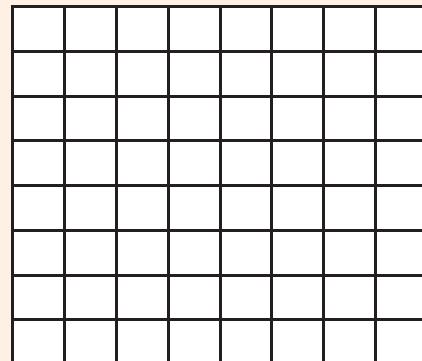
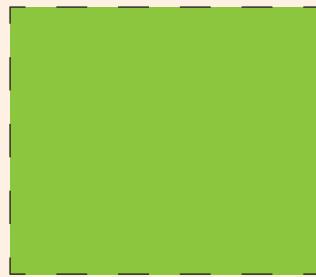
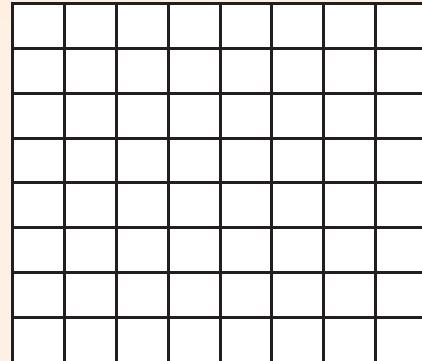
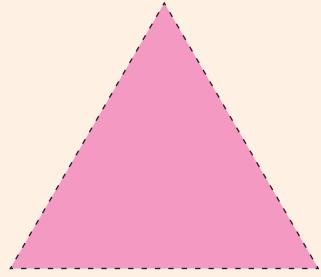
8

9

10



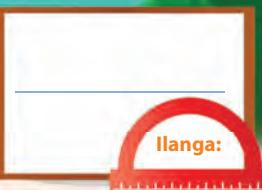
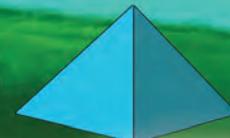
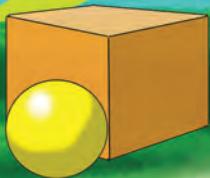
Gwala amajamo ngaphakathi kwegridi.
Sebenzisa iinkwere ezincani zizokusiza.



Teacher:
Sign:
Date:

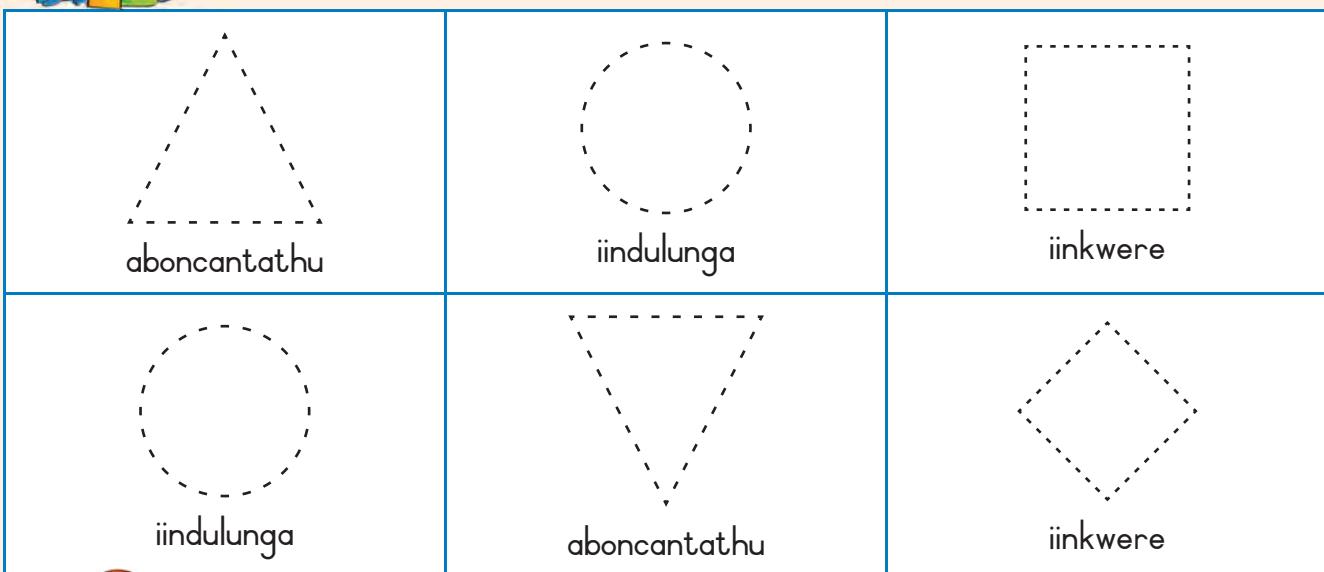


110

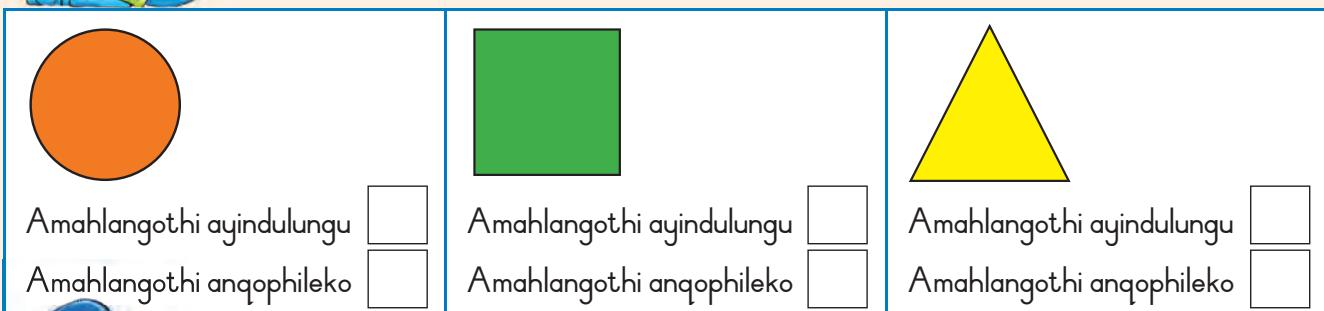


Amajamo we - 2 - D – amahlangothi anqophileko nayindulungu

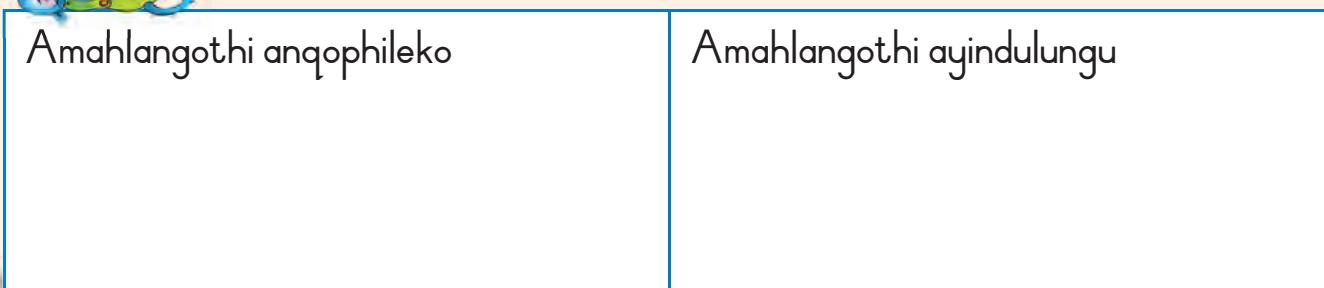
Gadangisa amajamo alandelako.



Thika ukutjho nangabe ijamo linamahlangothi anqophileko nanyana ayindulungu.



Gwala ijamo elinamahlangothi alandelako:



0

1

2

3

4

5

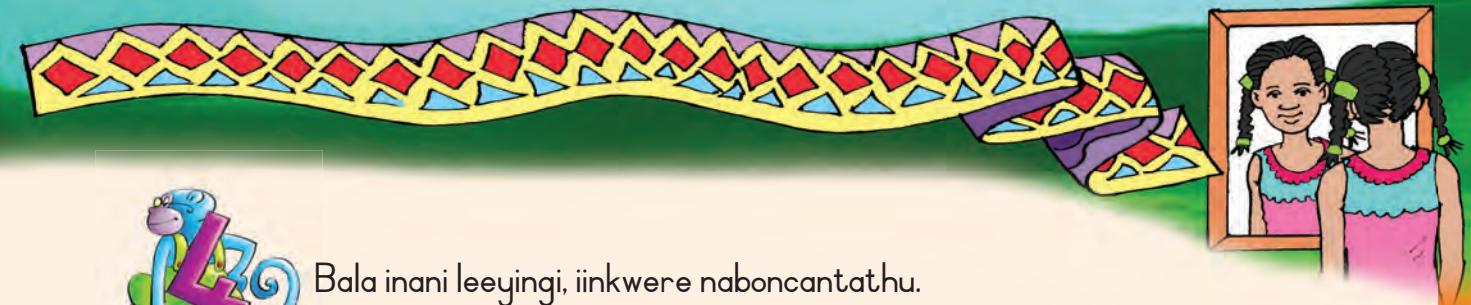
6

7

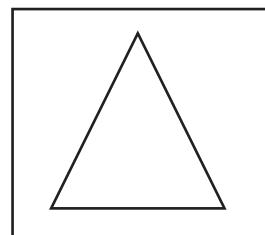
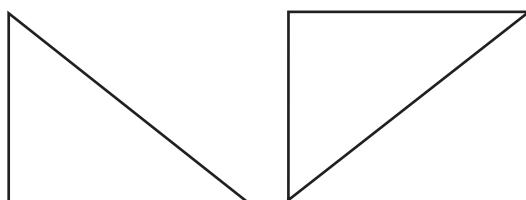
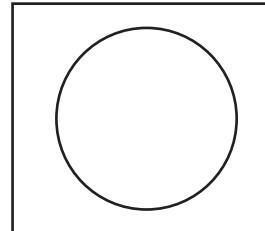
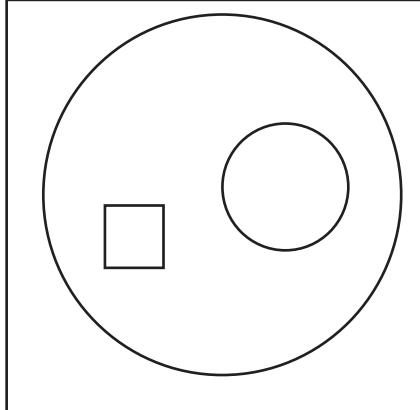
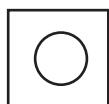
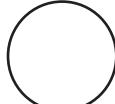
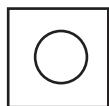
8

9

10



Bala inani leeyingi, iinkwere naboncantathu.



Iindulungu



Iinkwere



Aboncantathu



Funyana isithombe sezinto kibomegazini ezine:

Amahlangothi ayindulungu

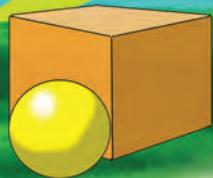
Amahlangothi anqophileko



Teacher:
Sign:
Date:



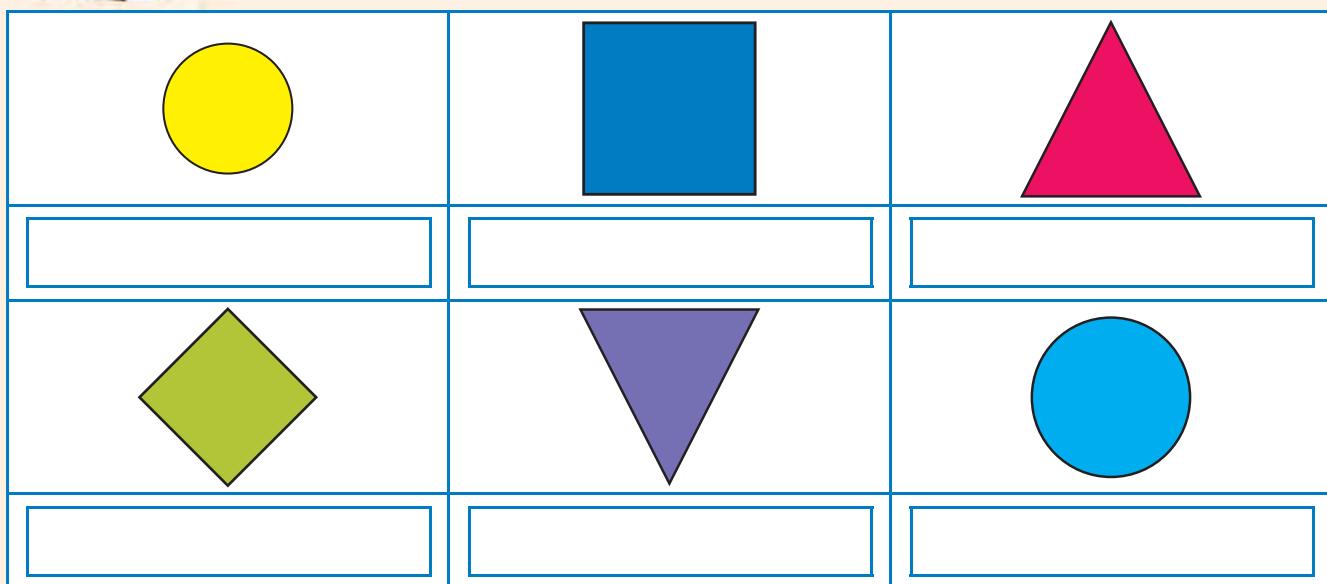
III



Amanye amajamo we – 2-D



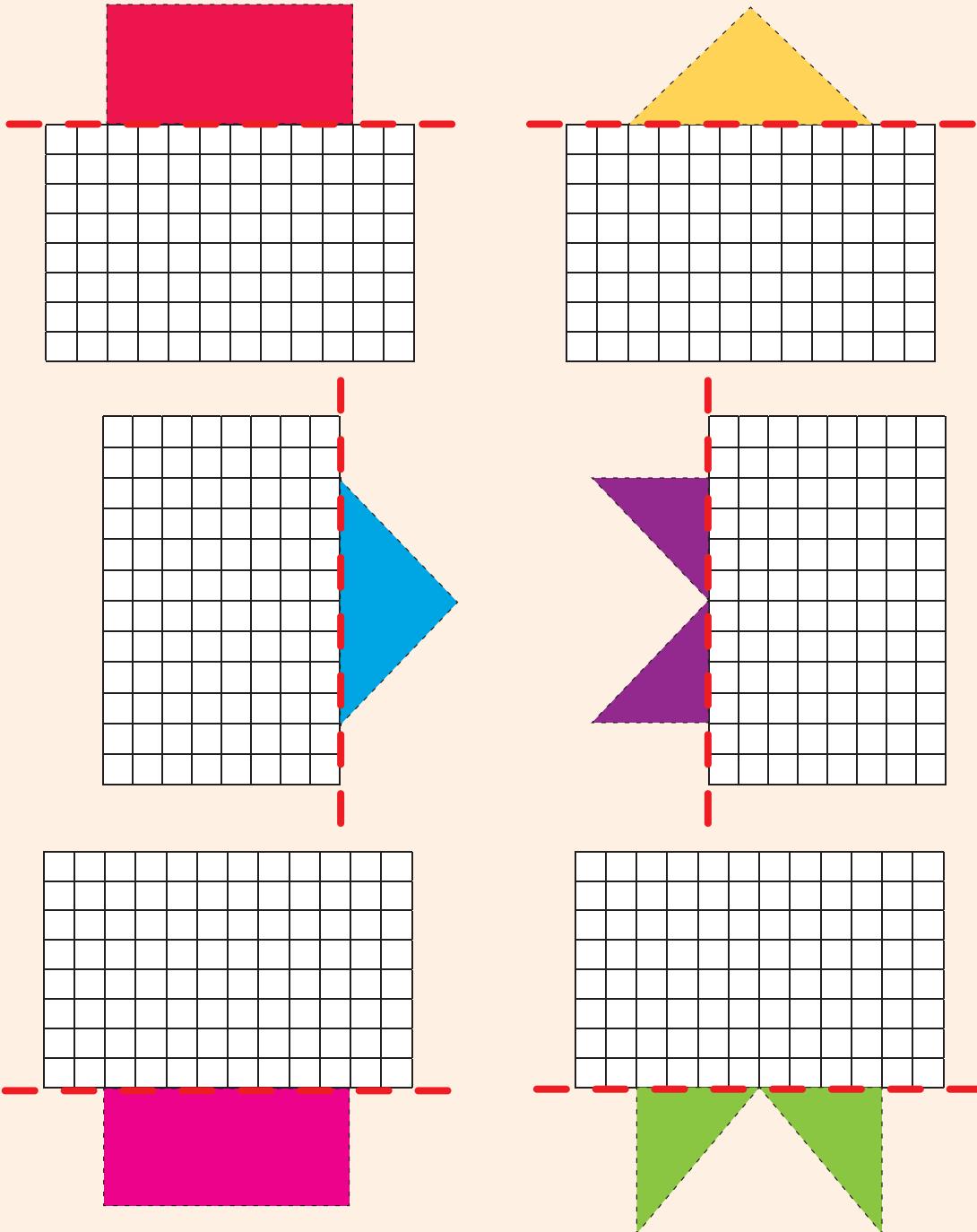
Yitjho amajamo alandelako:



Zigwalele sakho isithombe usebenzise iiyingi, aboncantathu neenkwere kwaphela.



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

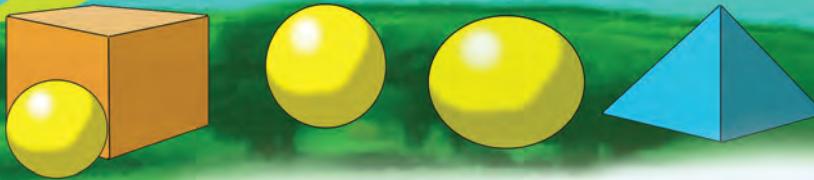


Zoke zinamahlangothi ayindulunga angophileko .



Teacher:
Sign:
Date:



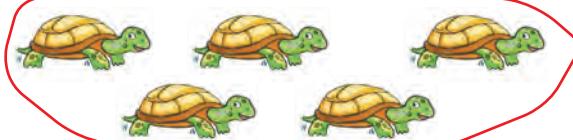


Amabuthelelo wangakuhanu bekufike ema - 20



Gwala iijingi ukwaka amabuthelelo wangakuhanu.
Unamabuthelelo wangakuhanu amangaki?

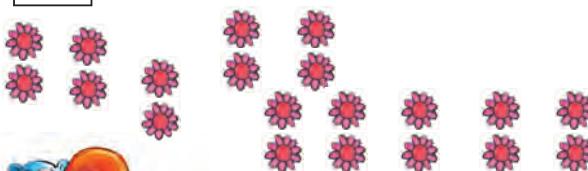
Ibuthelelo eli - langaku - 5



amabuthelelo wangaku - 5



amabuthelelo wangaku - 5



amabuthelelo wangaku - 5



Bala inani lemino. Tlola phasi ipendulo yakho.



$5 + 5 + 5 =$



$5 + 5 + 5 + 5 =$

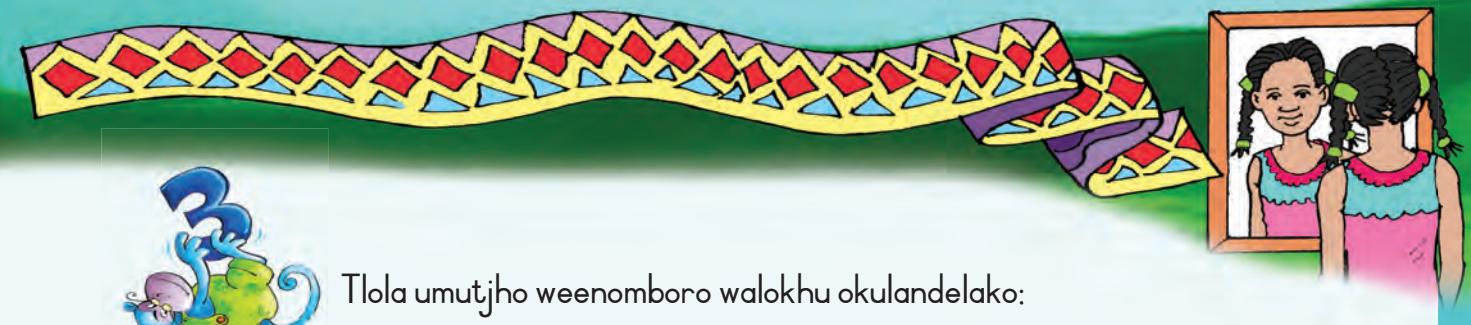


$5 + 5 + 5 + 5 + 5 =$



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





Tlola umutjho weenomboro walokhu okulandelako:

<input type="text"/>	

<input type="text"/>

<input type="text"/>	

<input type="text"/>	



Phendula imibuzo.



Ubona imali yesimbi
eziinsende eziyi-5c
engangani?

Tlola ipendulo yakho
ngomutjho weenomboro.

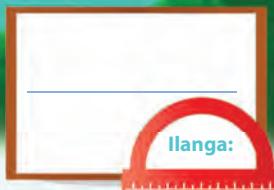
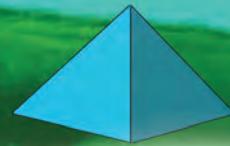
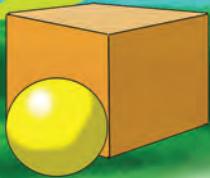


Qedelela ngeenomboro ezilandelako.

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



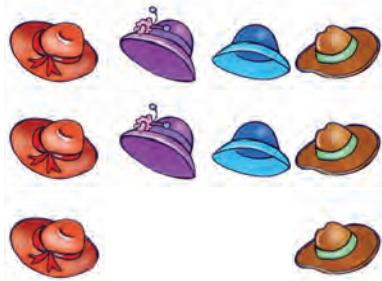
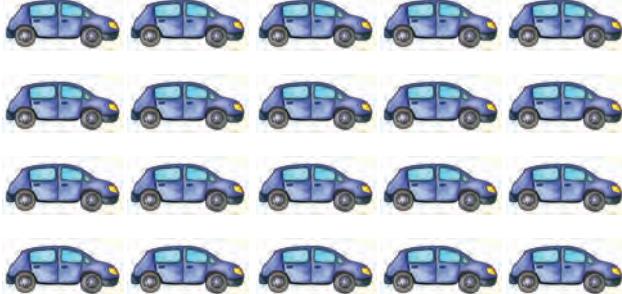
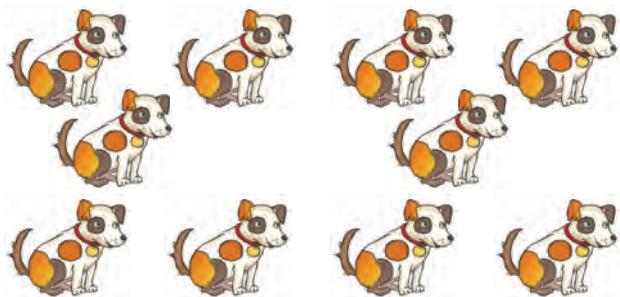
II3



Okuhlanu – ukuhlanganisa okubuye lelweko bekufike ema-20



Beka amabuthelelo wangakuhlanu bese utbole umutjho weenomboro.



Gwala amabuthelelo wamajamo ukutjengisa imitjho yeenomboro.

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

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



98

0

1

2

3

4

5

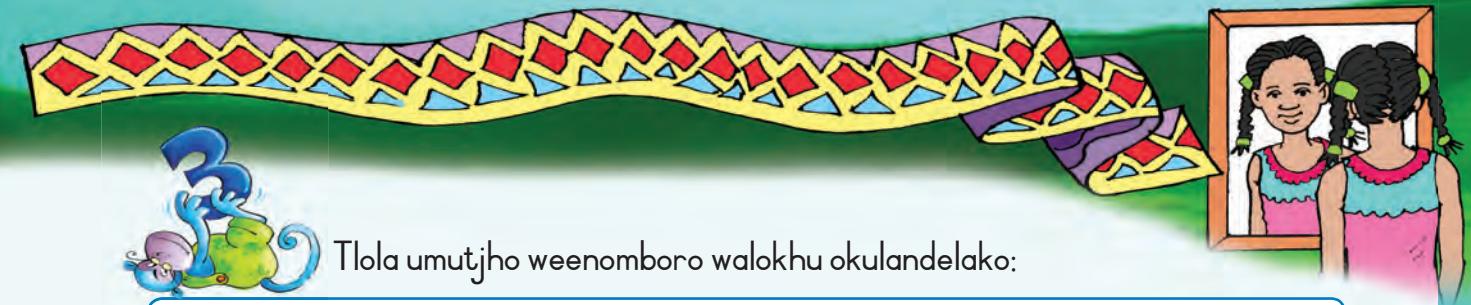
6

7

8

9

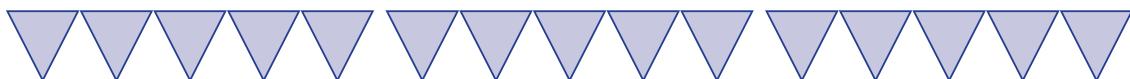
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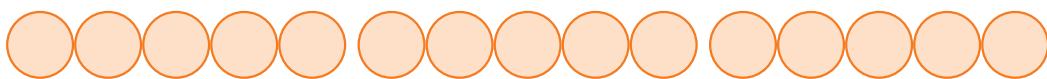


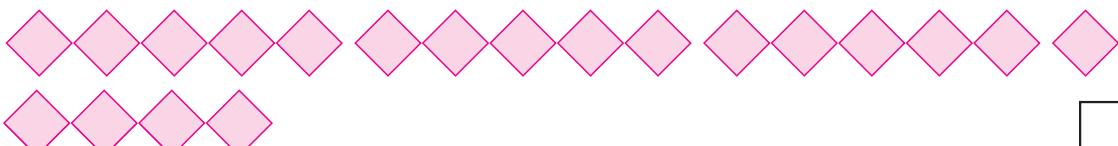
Tlola umutjho weenomboro walokhu okulandelako:



$$5 + 5 =$$









Uzibala kangaki iinomboro ezhlanu? _____

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



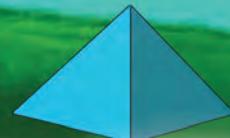
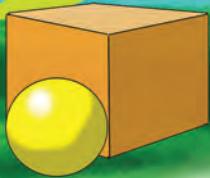
Emafesidereni kunezandla ezi -3. Mimino emingaki efesidereni?

Gwala isithombe bese utlole umutjho weenomboro.





II4



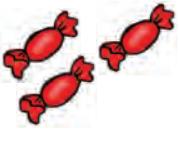
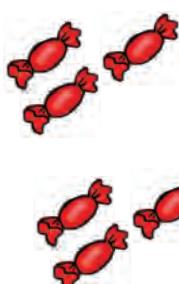
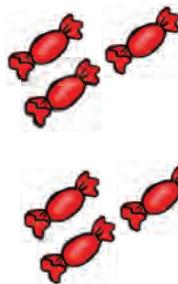
Ukwahlukaniselana bekufike ema-20

Ithemu 4

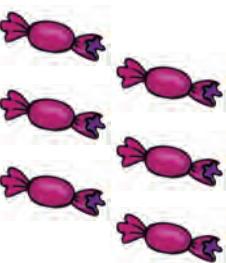
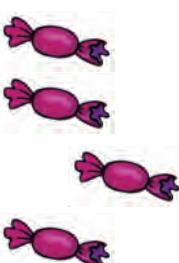


Yabela abangani abahlanu amaswidi.

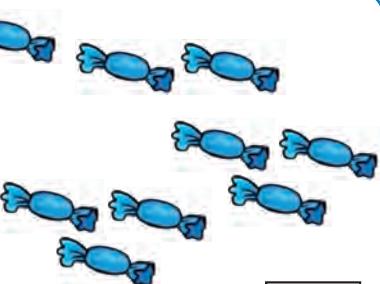
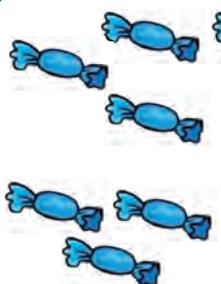
Umngani ngamunye uzokufunyana amaswidi amangaki?



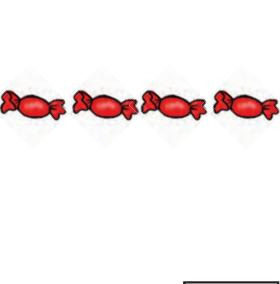
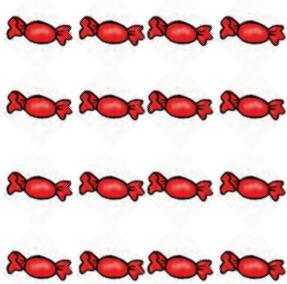
Umngani ngamunye uzokufunyana
amaswidi.



Umngani ngamunye uzokufunyana
amaswidi.



Umngani ngamunye uzokufunyana
amaswidi.



Umngani ngamunye uzokufunyana
amaswidi.

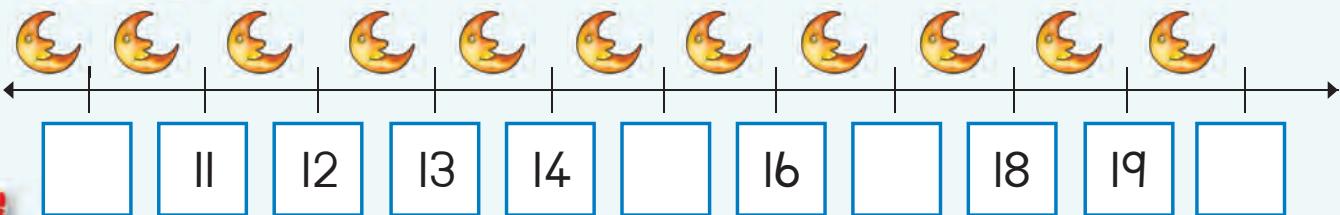


Umngani ngamunye uzokufunyana amaswidi.

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



Qedeleta ngeenomboro ezitlhayelako.



100

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Yenza umgwalo ukutjengisa okulandelako.
Ingabe zikhona iimbalisi eziseleko?

Yabela abentwana abahlanu iimbalisi ezili-IO.

Kusele iimbalisi

Yabela abentwana abahlanu iimbalisi ezili-IO.

Kusele iimbalisi

Yabela abentwana abahlanu iimbalisi ezili-II.

Kusele iimbalisi

Yabela abentwana abahlanu iimbalisi ezili-16.

Kusele iimbalisi



Tlola umutjho weenomboro walokhu okulandelako:



$5 + 5 =$







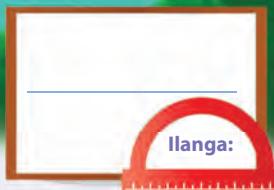
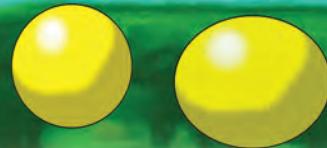
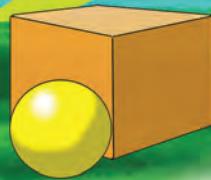


Teacher:
Sign:

Date:



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Amaphetheni weenomboro – ngakuhlanu bekufike e-100

Ithemu 4



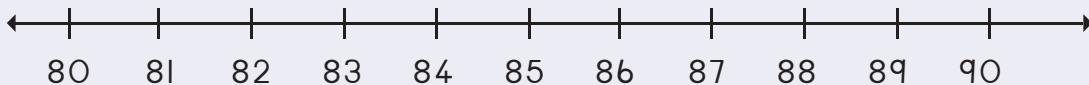
Qedelela iphetheni ngokuthi ukhalare isibuyabuyeelo sangakuhlanu.

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

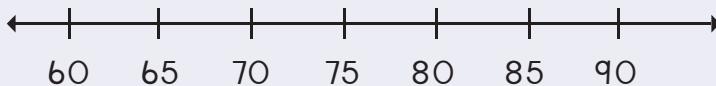


Gwala amawulawubhu ukutjengisa okulandelako:

86, 88, 90



70, 75, 80



55, 60, 65, 70



Sebenzisa iwatjhi ukutjengisa imizuzu
ebalwa ngakuhlanu.



102

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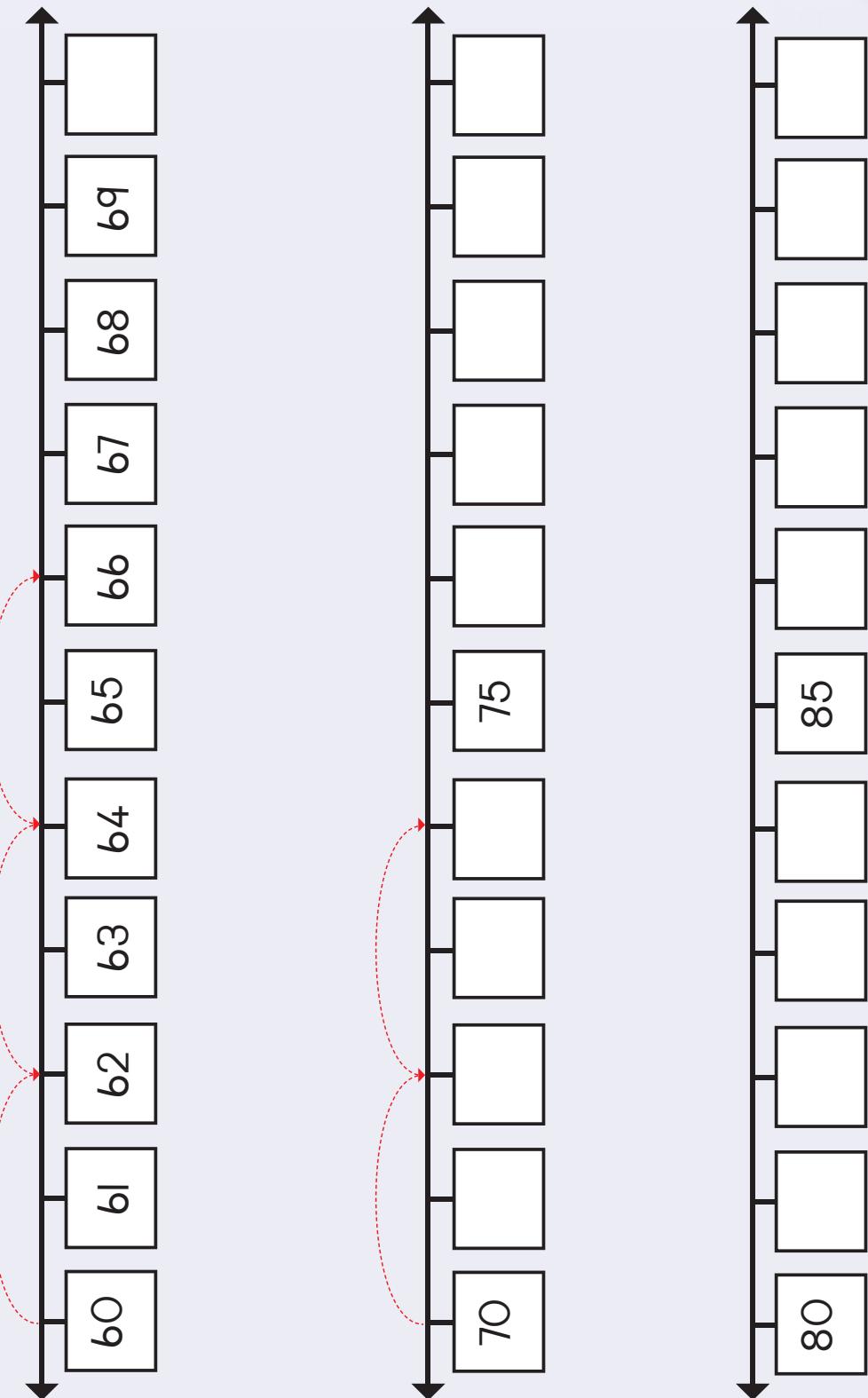
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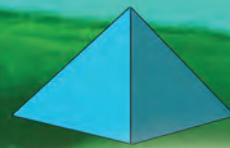
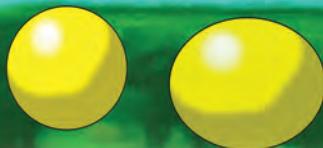
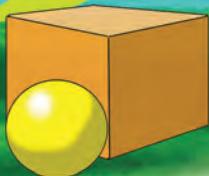
Beka iinomboro oziske kiboSika besi - 2 eendaweni lapha
kutlhayela khona iinomboro kumanambalayini.
Begodu uqedelele namawulawubhu.



Teacher: Sign:
Date:



II6



Ithemu 4



Madanisa ilingaphambili
kanye nelingemuva
lesilwana.

Indawo nokubonakala

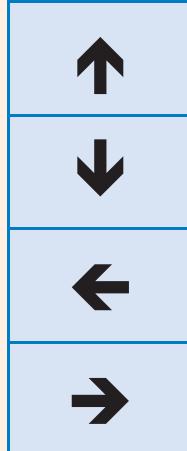
Ilingaphambili



Ilingemuva



Ndulungela
umkhonto omadana
nomkhonto
ofipaziweko.



→	←	↑	↓
↑	↓	→	←
→	←	↑	↓
↑	↓	→	→



104

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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

Ngaphambili

Eduze kwe-



Ngemuva

Ngaphambili

Eduze kwe-



Ngemuva

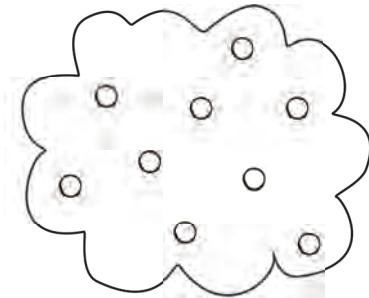
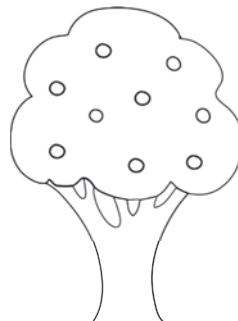
Ngaphambili

Eduze kwe-



Qalisisa iinthombe
zomuthi.

Khalara ukubonakala
kwangaphezulu.

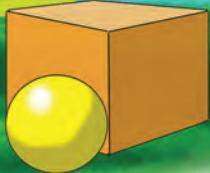


Teacher:
Sign:

Date:



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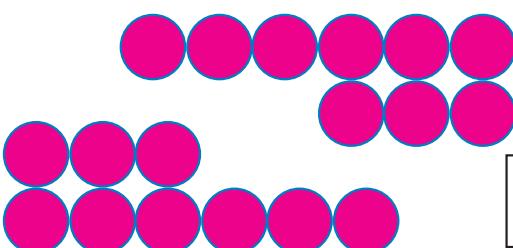
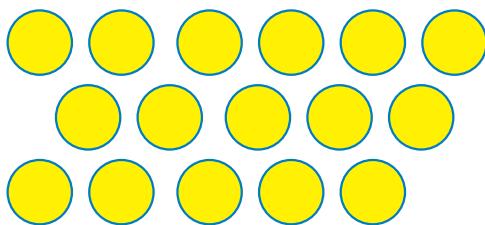
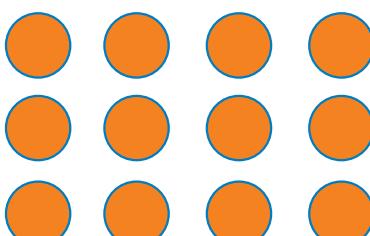
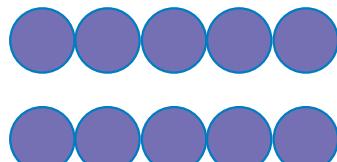
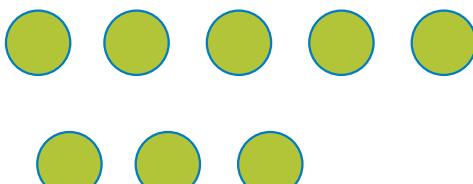
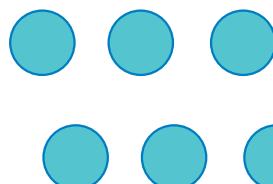


Ithemu 4

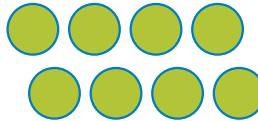
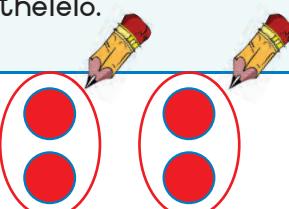
Amabuthelelo wangakubili bekufike ema-20



Beka amabuthelelo wangakubili. Tlola kobana kunamabuthelelo amangaki?



Beka amabuthelelo wangakubili. Gwala amabuthelelo.



106

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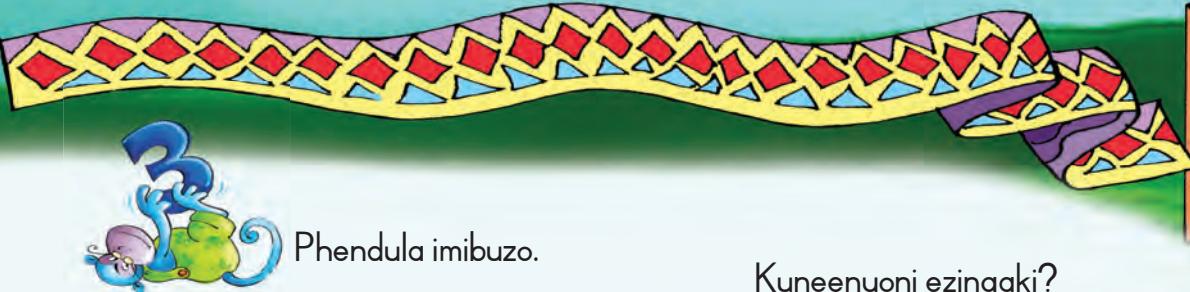
6

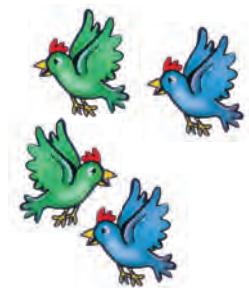
7

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 Phendula imibuzo.



Kuneenyoni ezingaki?

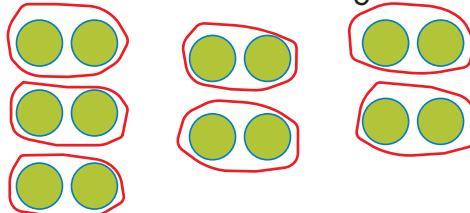
Ungabeka amabuthelelo
wangakubili amangaki?

Tlola umutjho weenomboro.



Gwala iiyngi
ukwenza
okulandelako:

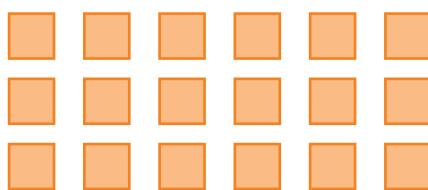
Amabuthelelo ali-7 wangaku-2



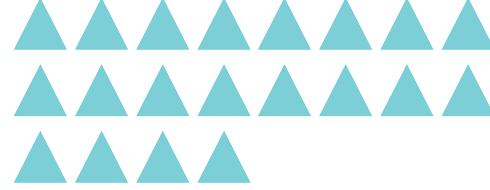
Amabuthelelo abu-8 wangaku-2



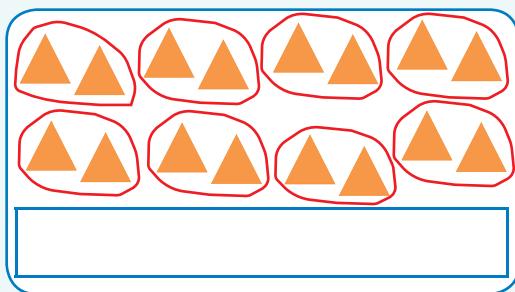
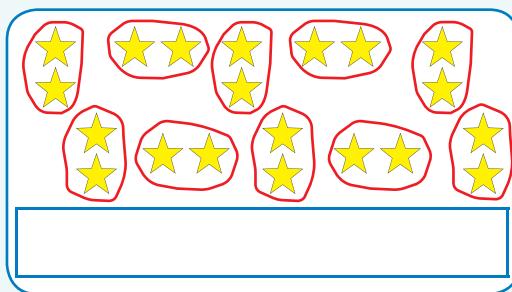
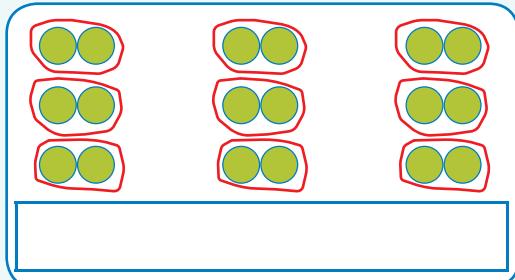
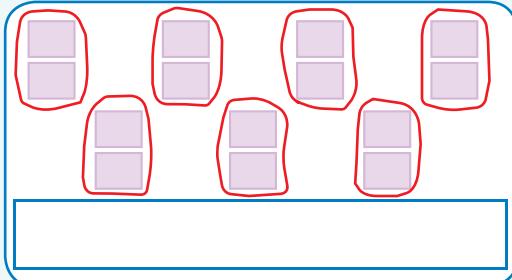
Amabuthelelo ali-9 wangaku-2

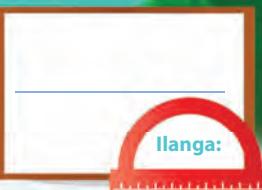
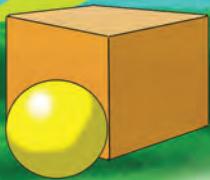


Amabuthelelo ali-10 wangaku-2



Tlola umutjho
weenomboro
walokhu
okulandelako:

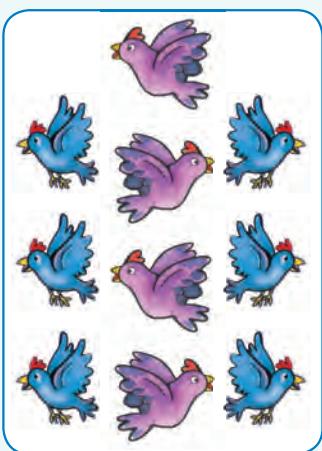
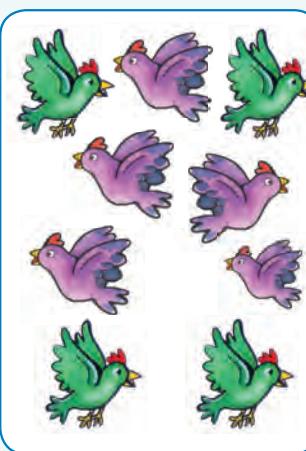
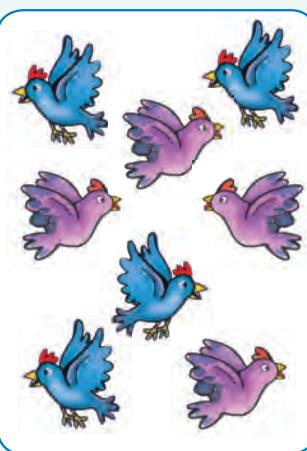
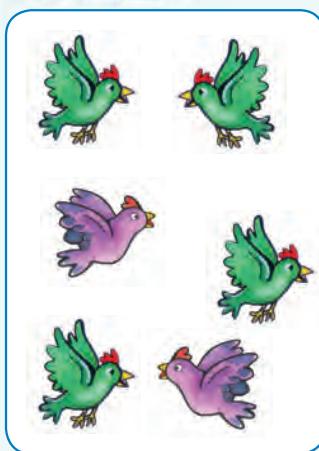




Ngakubili – ukubala okubuye lelweko bekufike ema -20



Kuneenyawo ezingaki? Gwala umutjho weenomboro wesibalo ngasinye.





Gwala amajamo walokhu okulandelako:

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



$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$



$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

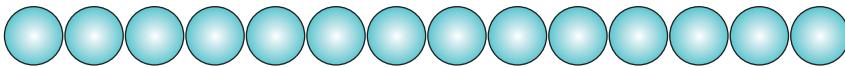


$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

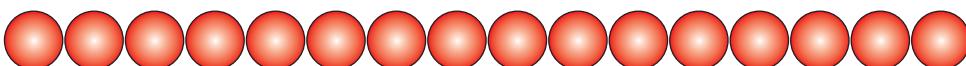


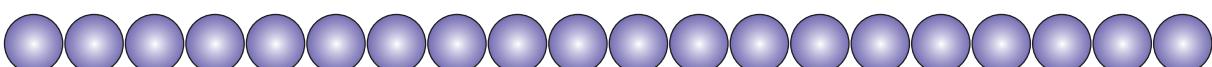


Tlola umutjho weenomboro walokhu okulandelako:



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









Khalara isibuyabuyelelo sangakubili.

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

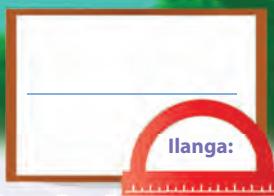
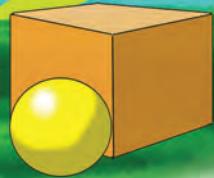


Nginamaphakethe asi - 6 wamaswidi. Ngephaketheni ngalinye, kunamaswidi ama - 2. Nginamaswidi amangaki? Gwala isithombe bese utlole nomutjho weenomboro.

Nginamaswidi .



IIq



Amaphetheni weenomboro – ngakubili bekufike e-100

Ithemu 4



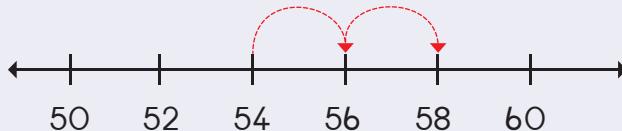
Qedelela iphetheni
ngokukhalara .

61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Gwala amawulawubhu ukutjengisa okulandelako:

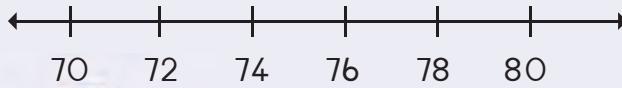
54, 56, 58



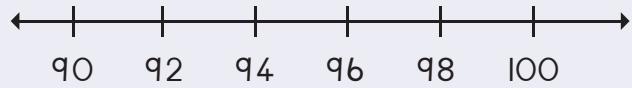
64, 66, 68



74, 76, 78



94, 96, 98

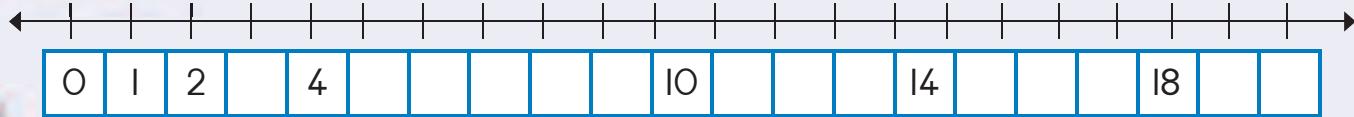


Qedelela ngeenomboro ezitlhayelako. Khalara iphetheni yeenomboro: 2, 4, ...

I			3				7			10
II							17			20



Qedelela inambalayini.



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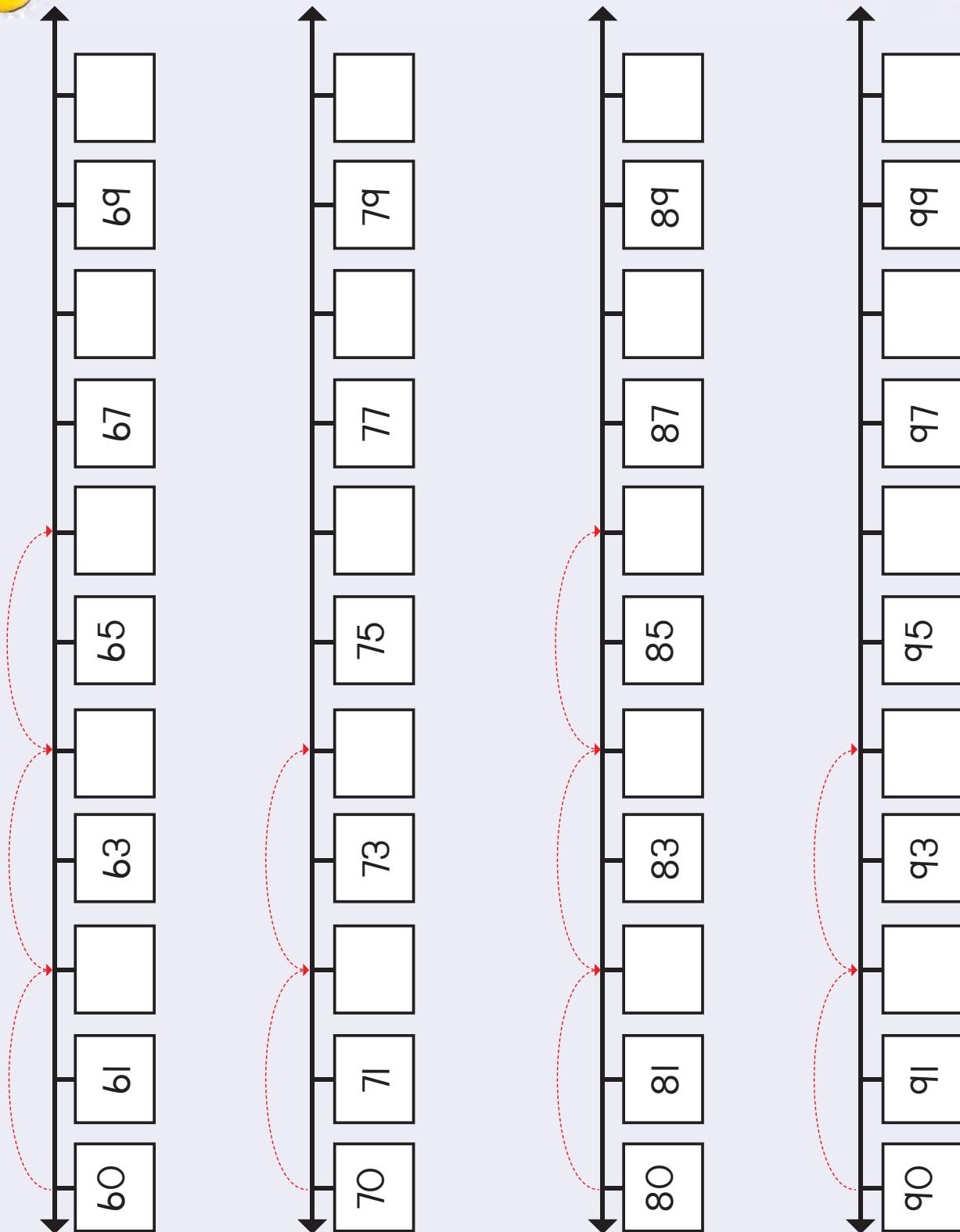
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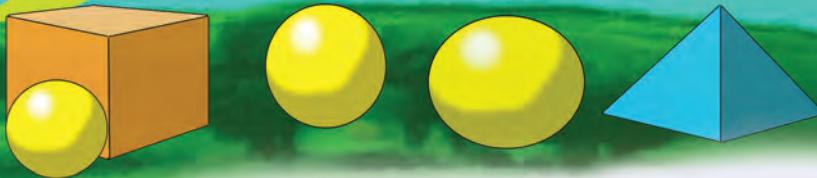

Sika iiomboro kiboSika besi - 2 bese uzibeka phezu
 kwenambalayini lapha kuneenomboro ezitlhayelako. Ngemva
 kwalapho, uqedelele amawulawubhu.



Teacher:
Sign:

Date:



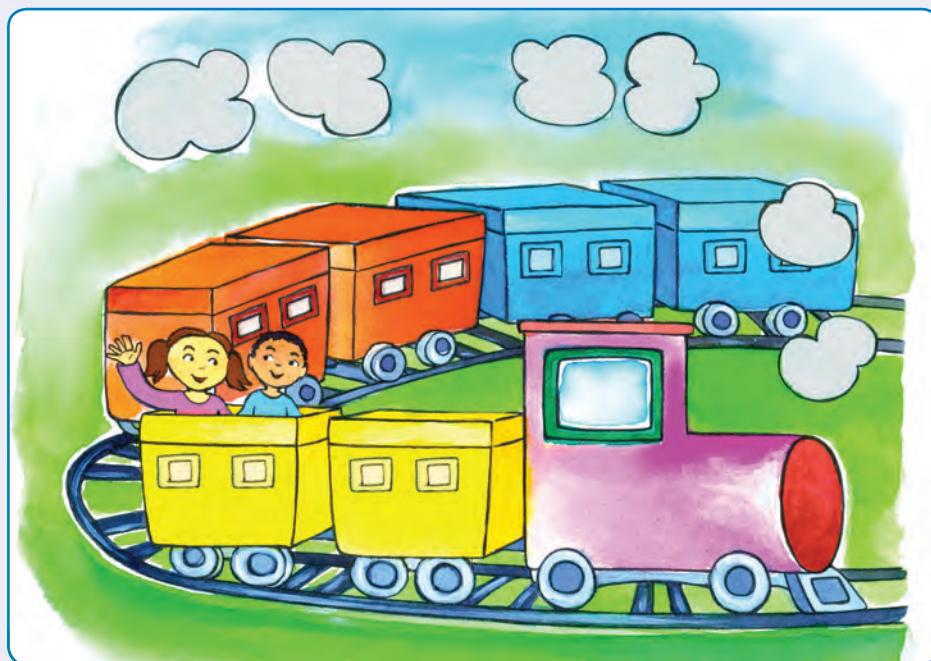


Iphetheni yeenomboro – ngakubili bekufike e-100

Ithemu 4



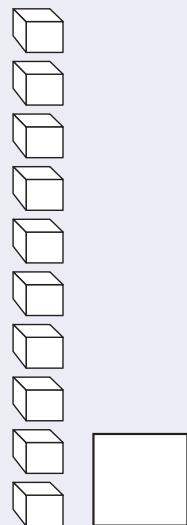
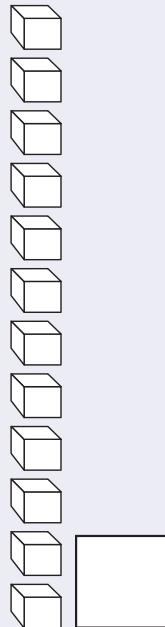
Uyayibona iphetheni yangakubili?



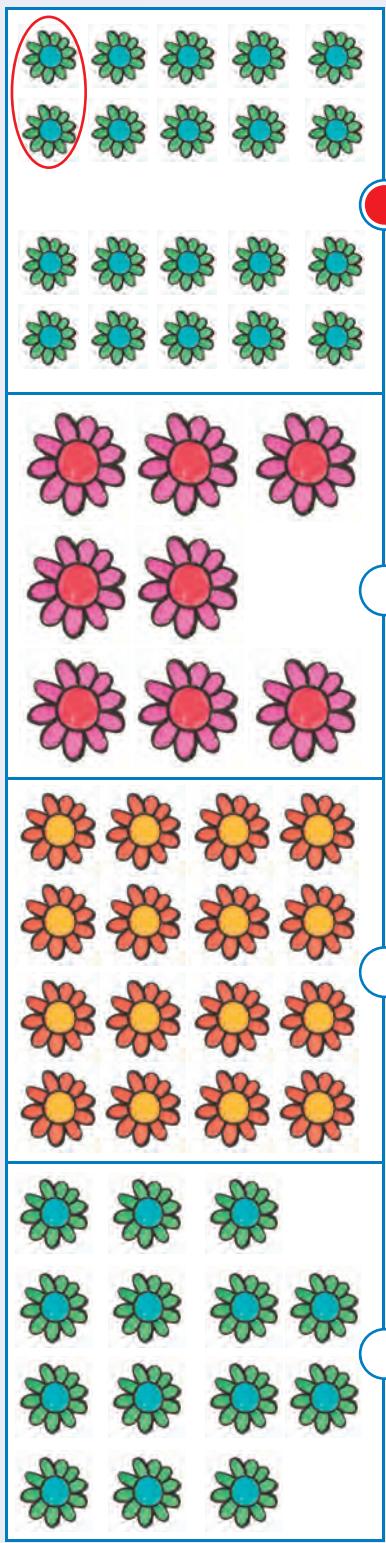
Khalara amabhlogo ukutjengisa amabuthelelo wangakubili.
Bala kobana kunamabuthelelo amangaki?



4




 Madanisa amabuthelelo wangakubili nomutjho
 weenomboro ngokuthi ugwale umuda.



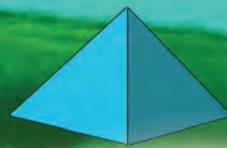
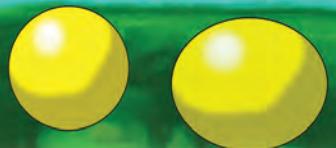
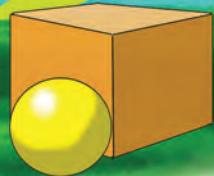
	$2 + 2 + 2 + 2 = 8$
	$2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$
	$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20$
	$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$



Teacher:
Sign:

Date:



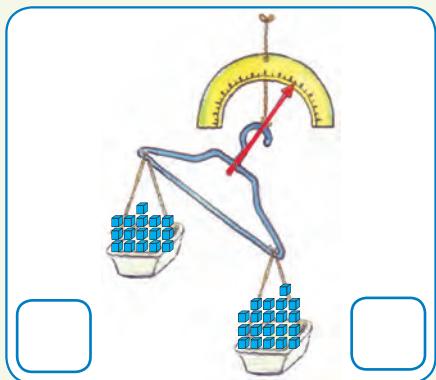
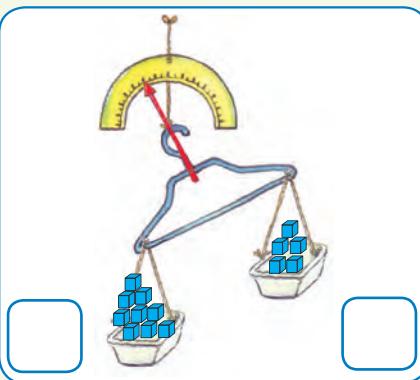
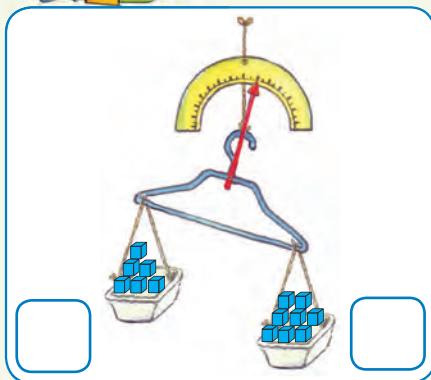


Imasi (ubudisi)

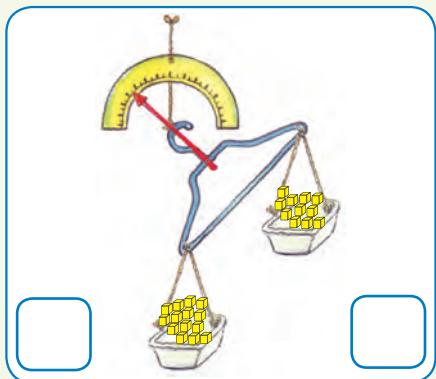
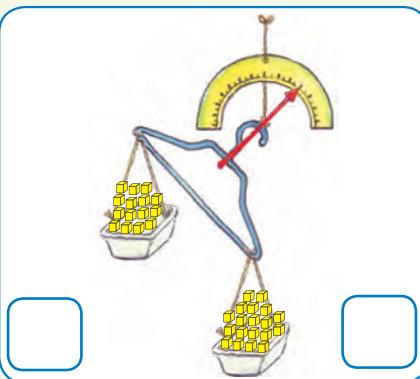
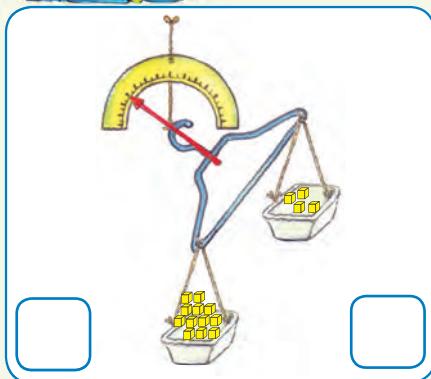
Ithemu 4



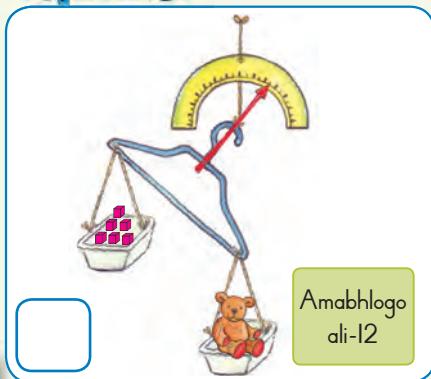
Tlola kobana mabhlogo amangaki esimumathini ngasinye.
Ndulungela isimumathi esibudisi khulu.



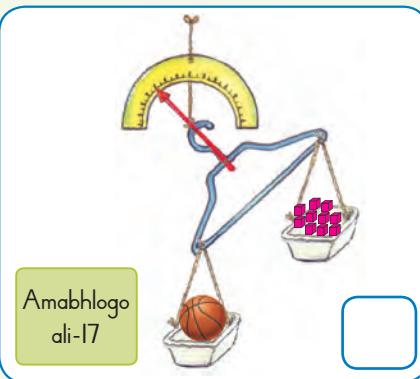
Tlola kobana mabhlogo amangaki asesimumathini ngasinye.
Ndulungela isimumathi esilula khulu.



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



Amabhlogo ali-12



Amabhlogo ali-17



Amabhlogo ama-20



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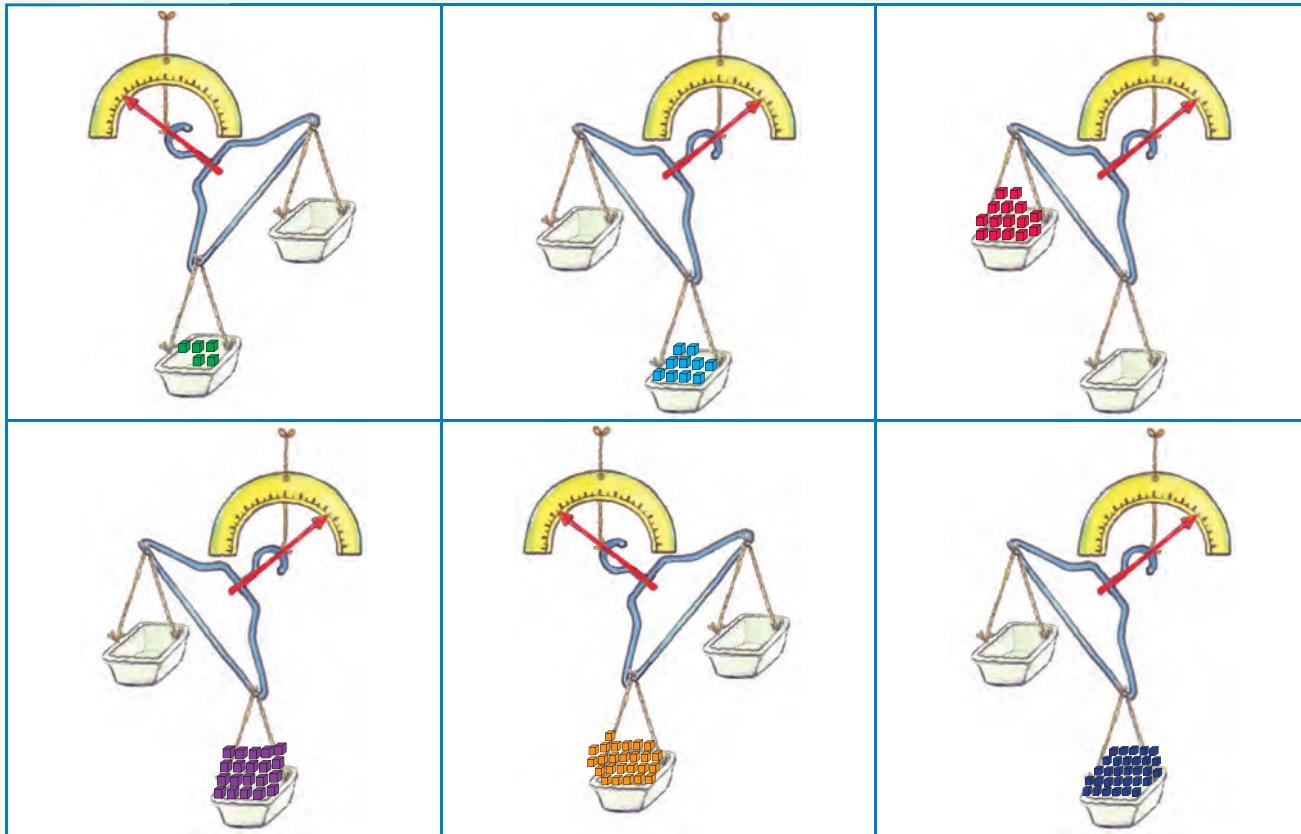
8

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10



Gwala into ebudisi nanyana elula kunamabhlogo.



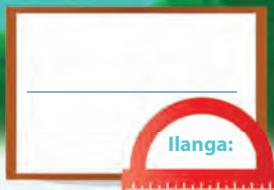
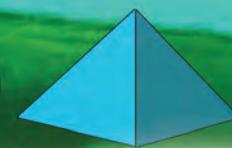
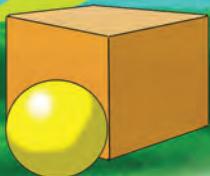
Sebenzisa izinto ezihlalu ezisedeskini lakho. Kokuthoma, linganisa kobana zikala ubudisi obungangani bese usebenzisa isikala ukubona -ke kobana ukulinganisa kwakho kuyanemba na.

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



Teacher:
Sign:
Date:



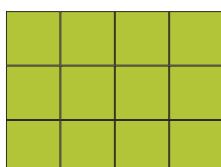


Ukubuyelela kibili

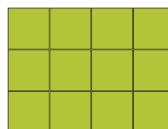


Phendula okulandelako:

Kuneenkwere ezingaki?

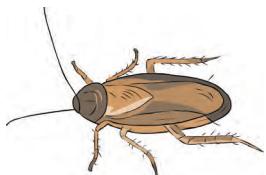


Kwanje kuneenkwere ezingaki?

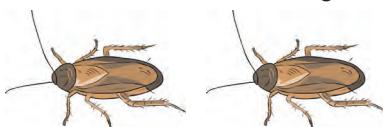


Sithi i-12 nalibuyeletwe kibili ipendulo ma-24.

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





Tlola ipendulo.

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



Tlola ipendulo.

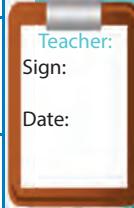


Okubili nakabuyeletwe kibili	okune
Okuthathu nakabuyeletwe kibili	
Okune nakabuyeletwe kibili	
Okuhlanu nakabuyeletwe kibili	
Okusithandathu nakabuyeletwe kibili	
Okulikhomba nakabuyeletwe kibili	

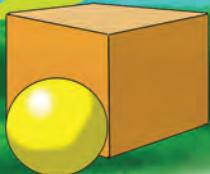


Qedelela itheyibula.

$9 + 9 + 1 =$	<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 okabuyeletwe kibili + 1 =	<input type="text"/>



123



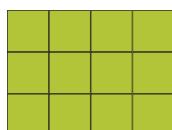
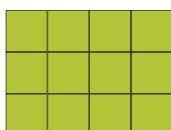
Ukuhafula

Ithemu 4

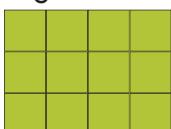


Phendula okulandelako:

Ziinkwere ezingaki?

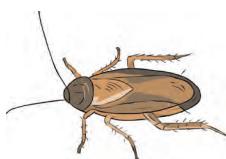
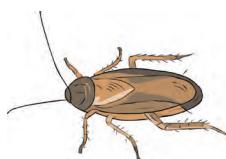


Kwanje sele ziingaki?

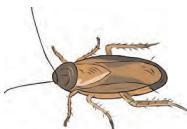


Sithi, ihafu yama - 24 li - 12.

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

Evekeni eyodwa kunamalanga
amangaki?

Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb

Sithi ihafu ye - 14

Kunamakhrayoni amangaki?



Kwanje kunamakhrayoni amangaki?

Sithi ihafu ye - 16



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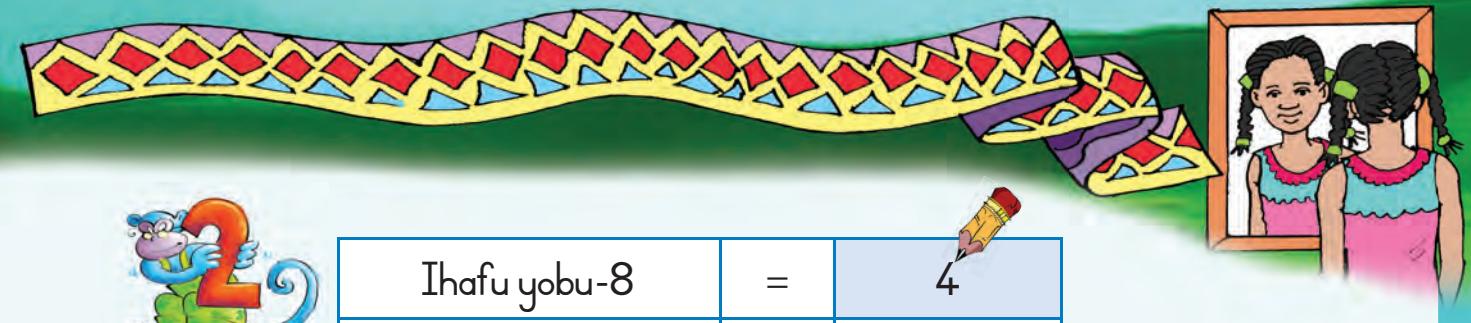
6

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Tlola ipendulo.

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



Tlola ipendulo.

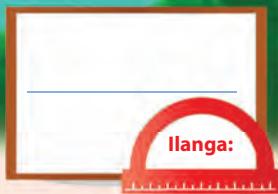
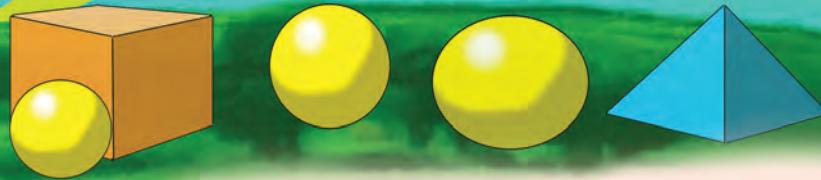
Ihafu yesine	okubili
Ihafu yesithandathu	
Ihafu yokubili	
Ihafu yobunane	
Ihafu ye-10	



Tlola ipendulo.

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

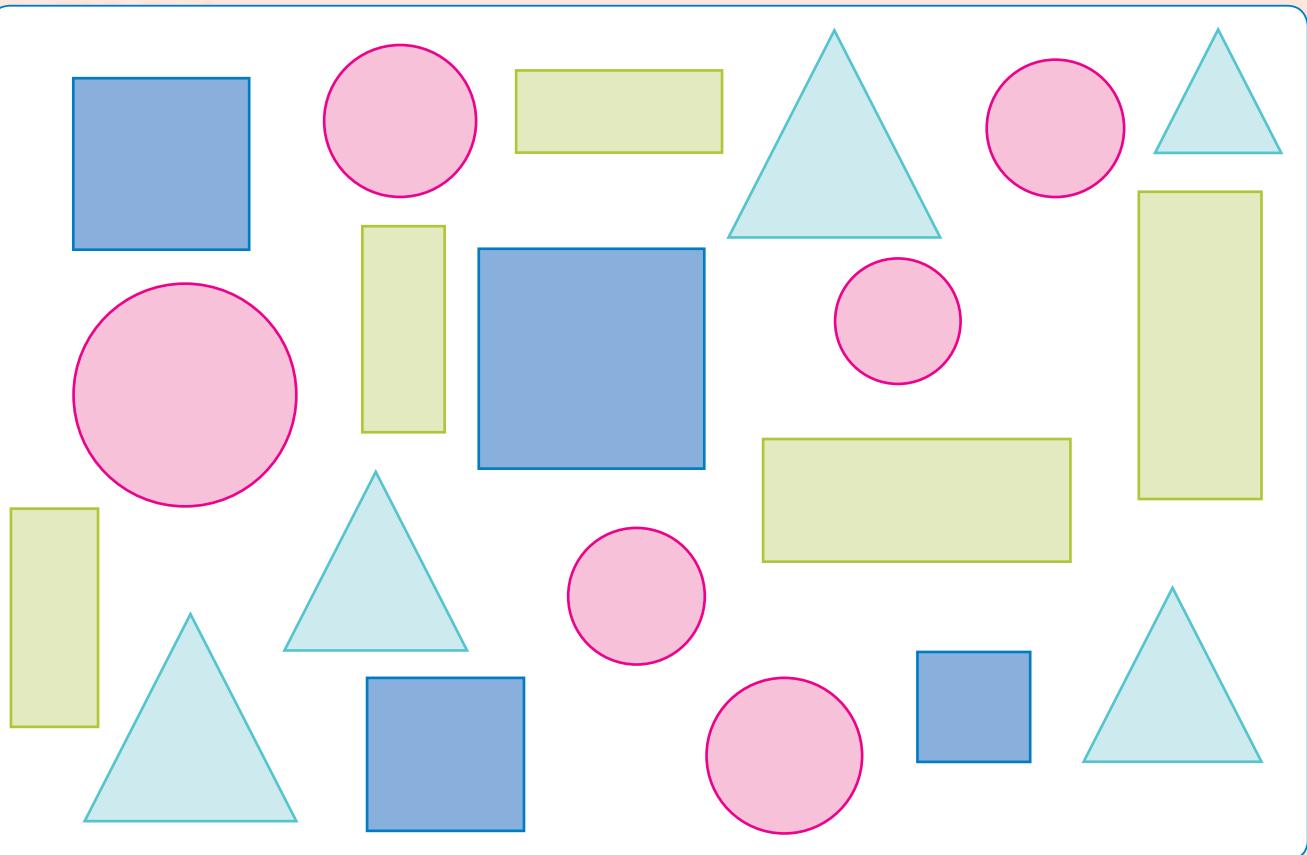




Idatha



Bala kobana kunamajamo amangaki ahlukeneko owabonako bese upendula imibuzo.

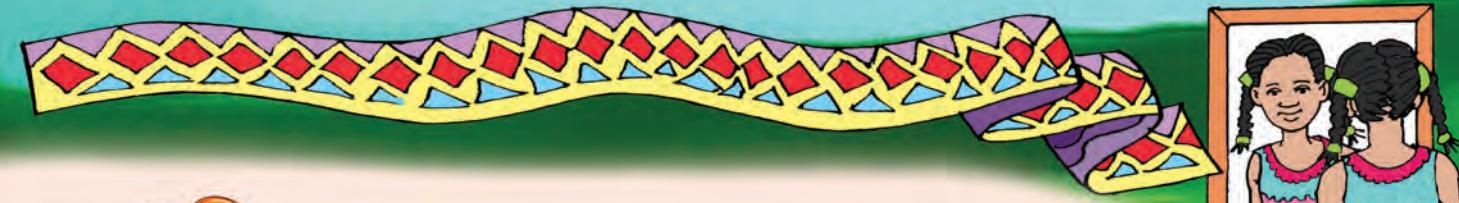


1. Ubona iinkwere ezingaki?

2. Ubona aboncantathu abangaki?

3. Ubona amarekthengela amangaki?

4. Ubona iiyingi ezingaki?



Iinthelo lezi zikhethwe bangani bakho abama-20.

Rhemisa iinthelo bese ugwala igrafu yeenthombe zeenthelo
ozihlelileko bese uphendula imibuzo engenzasi.



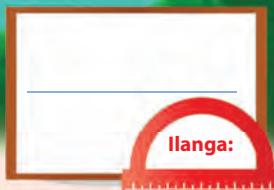
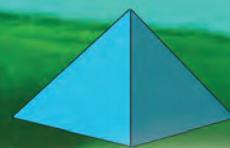
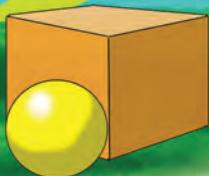
Iinthelo esizithandako

Ikomba =

Istrowubheri	I-apula	Ipiyere	Ibanana	I-orentji

Bangaki abentwana abathanda amastrowubheri?	
Bangaki abentwana abathanda ama-apula?	
Bangaki abentwana abathanda amapiyere?	
Bangaki abentwana abathanda amabhana?	
Bangaki abentwana abathanda ama-orentji?	
Ngisiphi isithelo abentwana abasithanda khulu?	
Ngisiphi isithelo abentwana abangasithandi khulu?	





Enye idatha

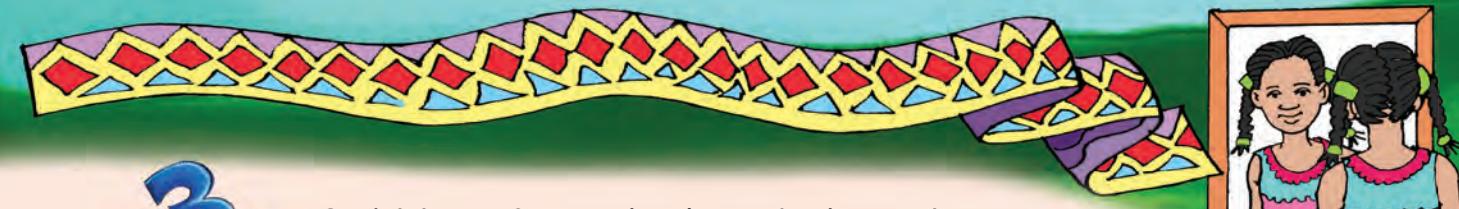


Abentwana ngetlasini baneendlalisi ezilandelako.
Unemihlobo emingaki yalokhu?



Qedelela itheyibula.

Isidlalisi	Inomboro
Abonodoli	
Amatraga	
Amabhere	
Amarobodi	

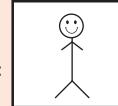


Qedeleta igrafu yeenthombe ngokuthi ugwale inani
leenthombe ekungilo lomhlobo ngamunye weendlalisi.



Iindlalisi esinazo

Isikhiya =



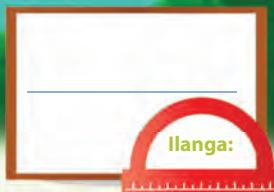
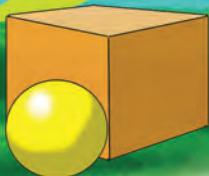
Abonodoli	Amatraga	Amabhere	Amarobodi



Phendula imibuzo elandelako. Qalisisa igrafu yeenthombe izokusiza.

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



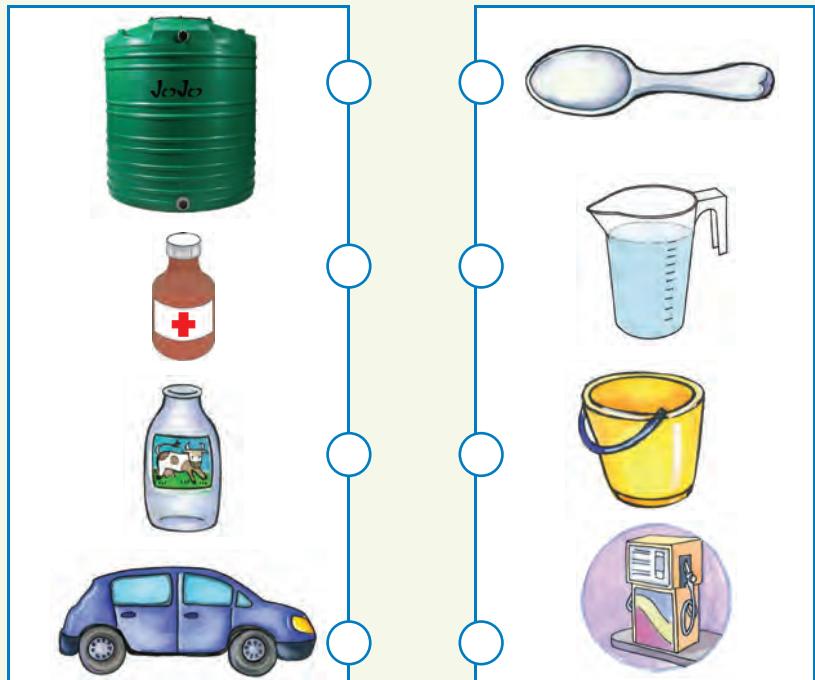


Umthamo

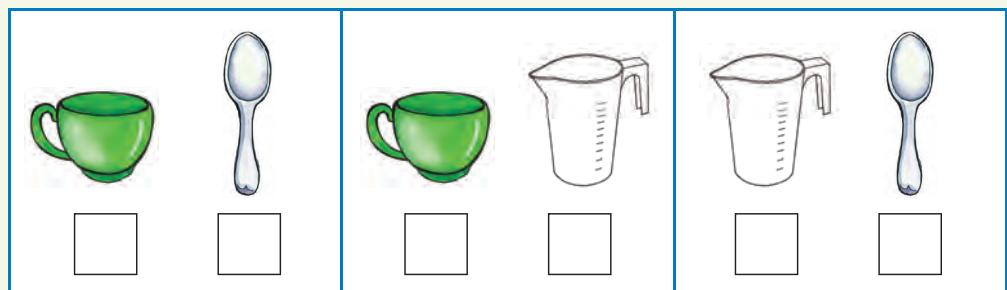
Ithemu 4



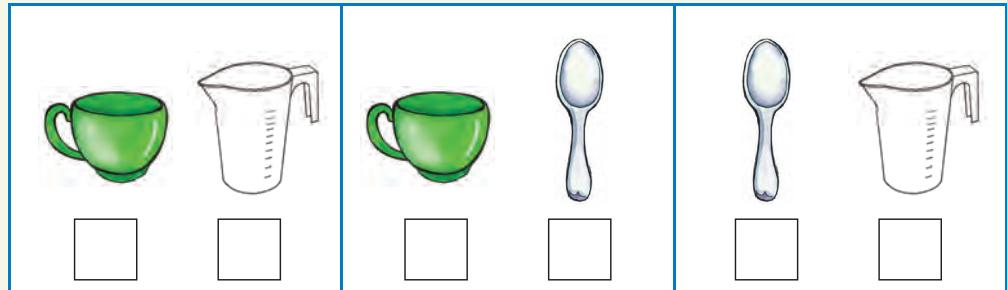
Itlelezi silimeda njani? Gwala umuda ukumadanisa into enesisetjenziswa sokumeda ekungiso.



Thika isimumathi esizokuba nokuncani.

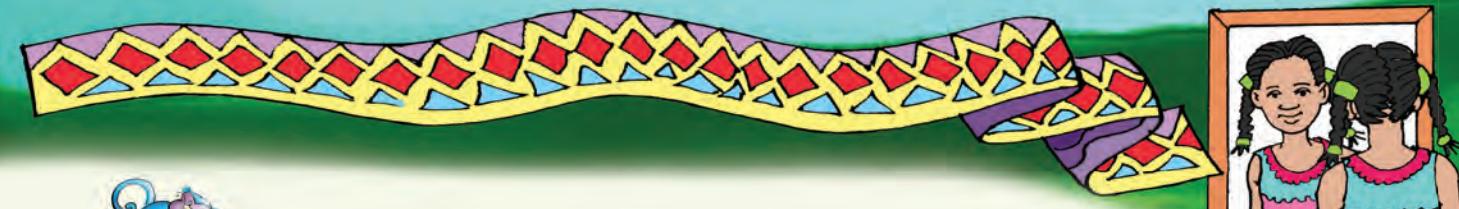


Thika isimumathi esizokuba nokunengi.

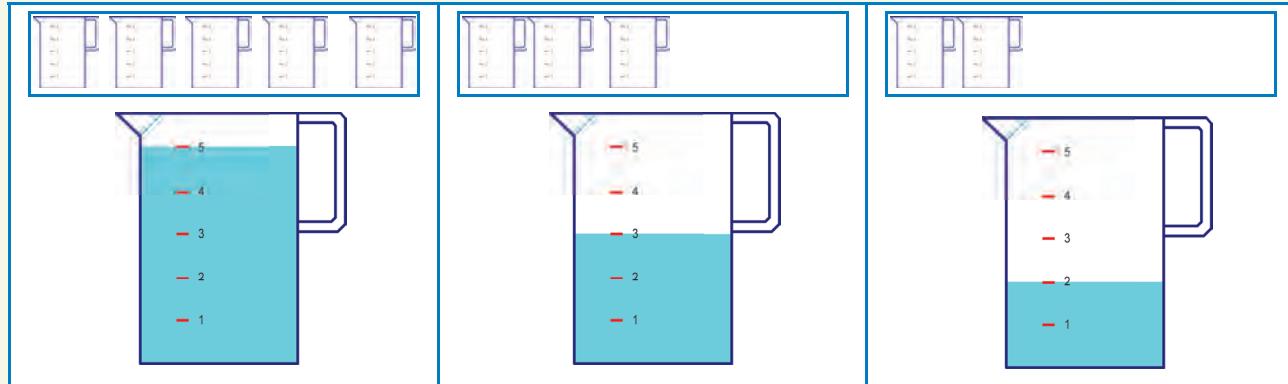


Ingabe iiumathi zizele nanyana azinalitho?

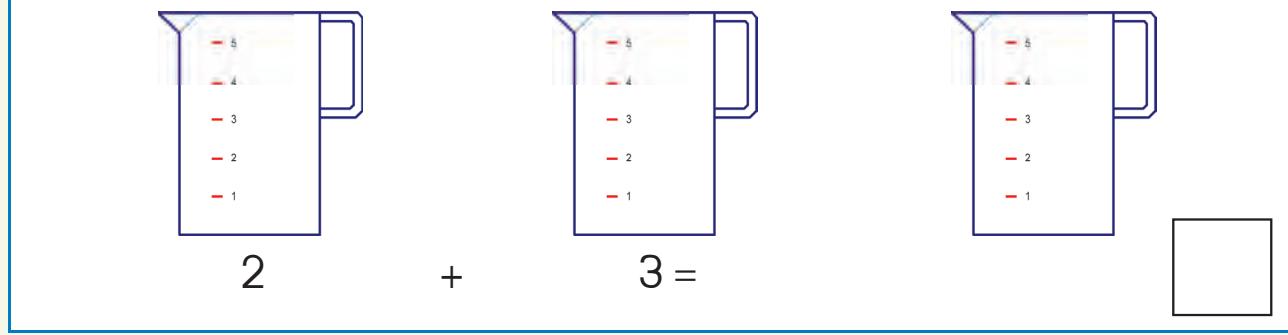
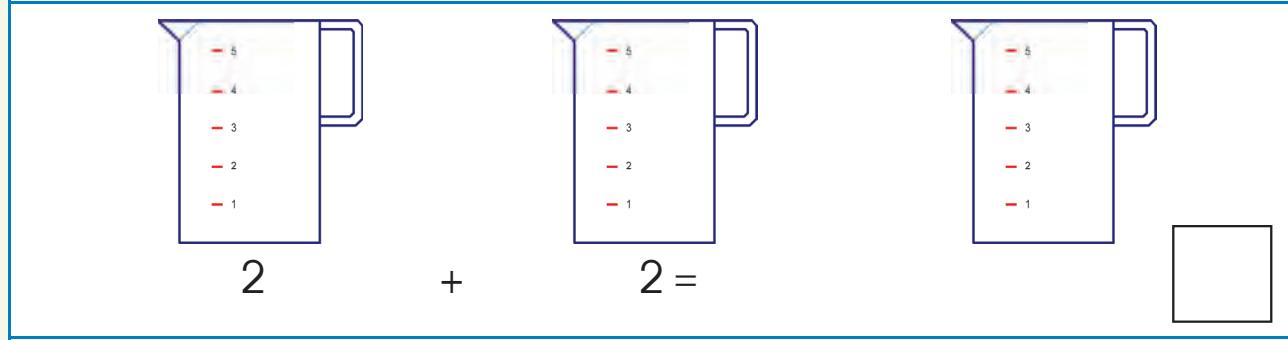
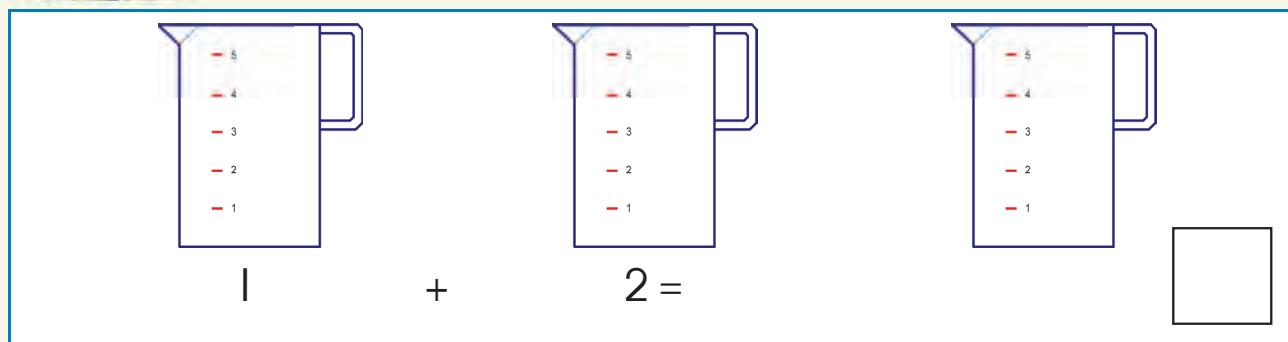




Utlhoga amakopi amahlanu ukuzalisa ijjege. Uzokutlhoga amanye amakopi amangaki ukuzalisa amanye amajege amabili? Gwala amakopi lawo.



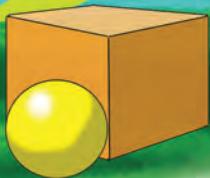
Khalara inani elinembaiko lamanzi.



Teacher:
Sign:
Date:



I27

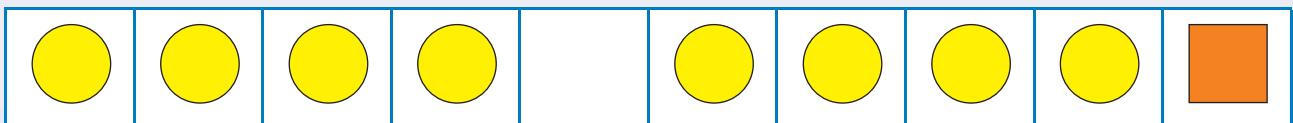
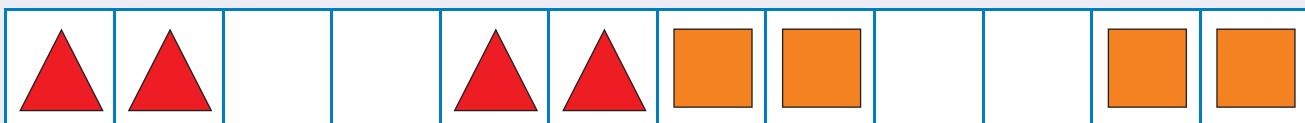
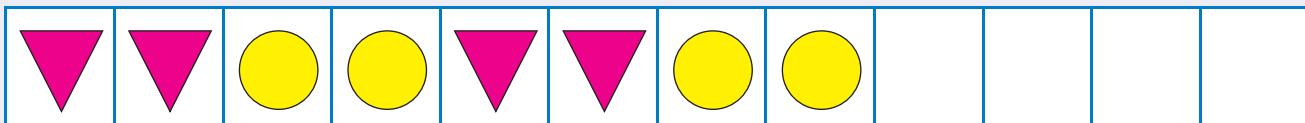
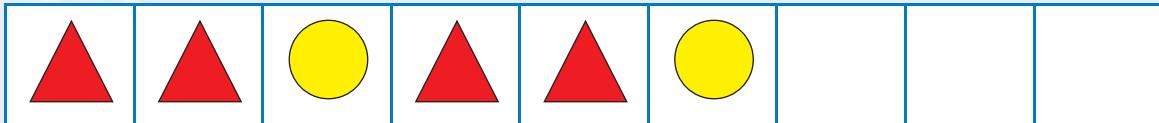


Qedelela amaphetheni.

Ilanga:

Ithemu 4

Amaphetheni wejiyomethri



I26

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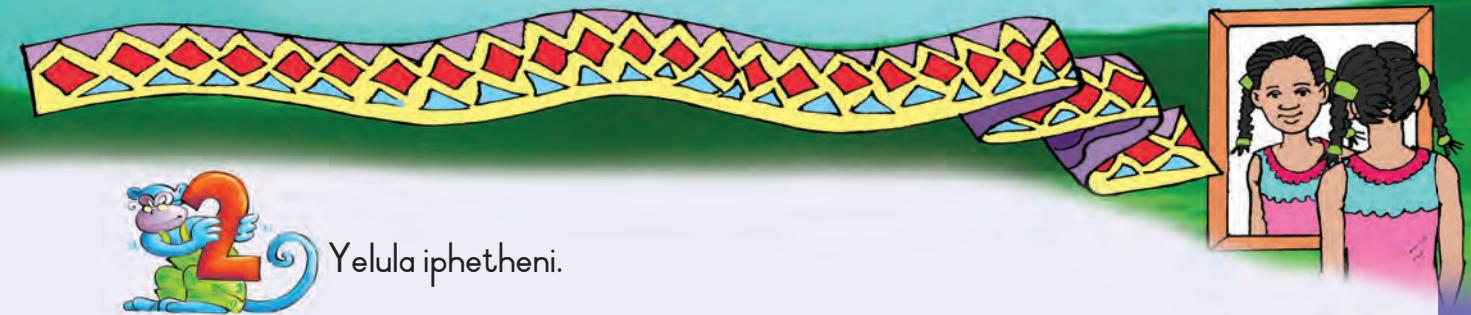
6

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Yelula iphetheni.





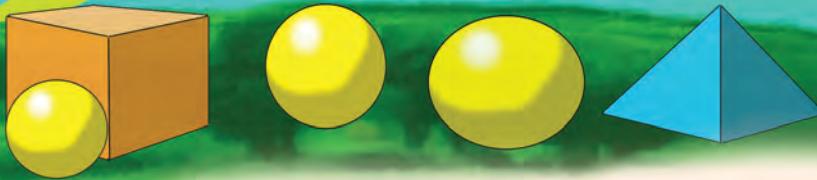
Zenzele wakho amaphetheni usebenzise iiydingi, iinkwere naboncantathu.



Teacher:
Sign:

Date:

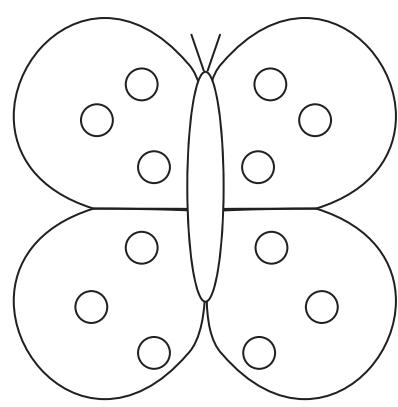
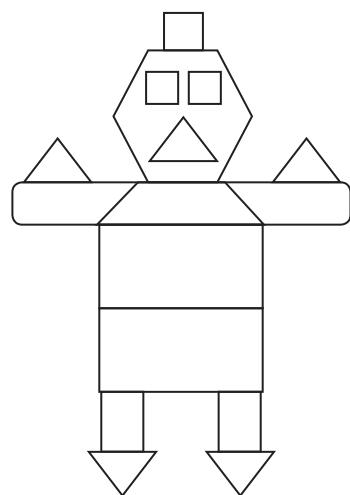
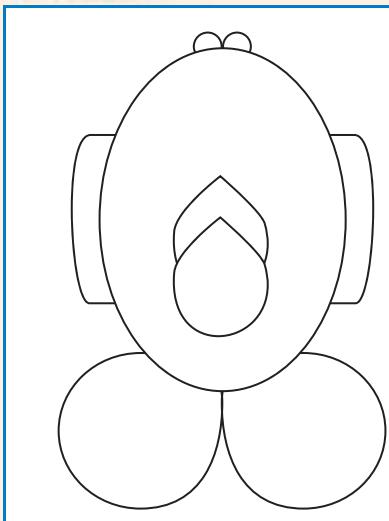




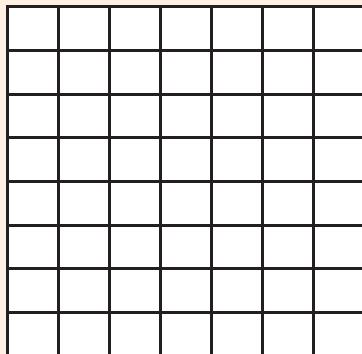
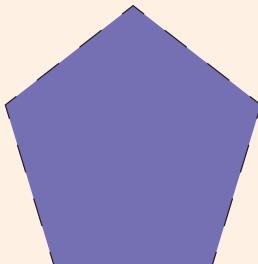
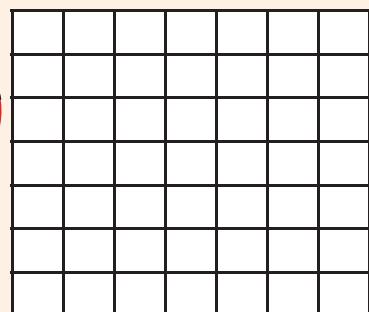
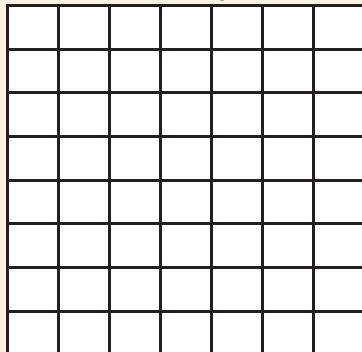
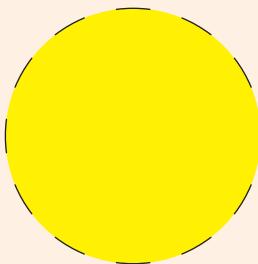
Isimethri/Ukubandeka -bulingana

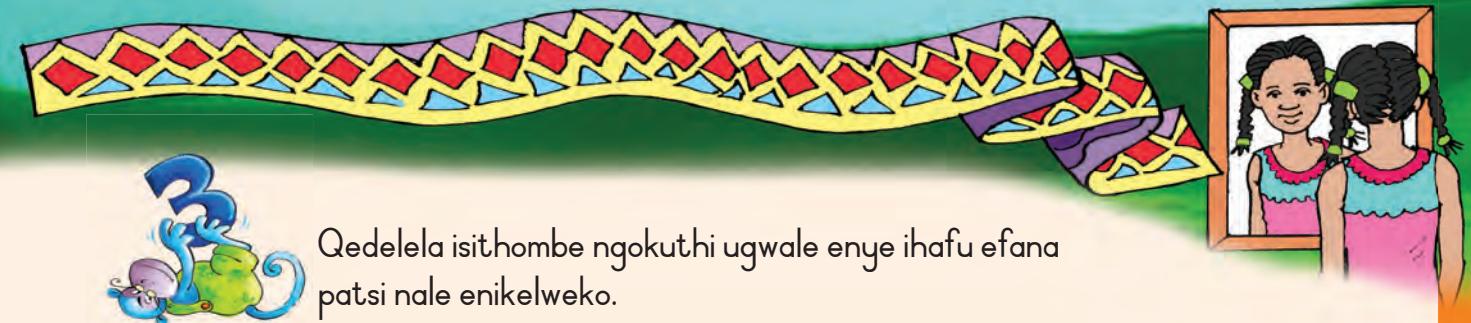


Gwala umuda ozokwehlukanisa isithombe sibe neengcenyé ezimbili ezilinganako.
Khalara ihafu eyodwa yesithombe ngasinye.

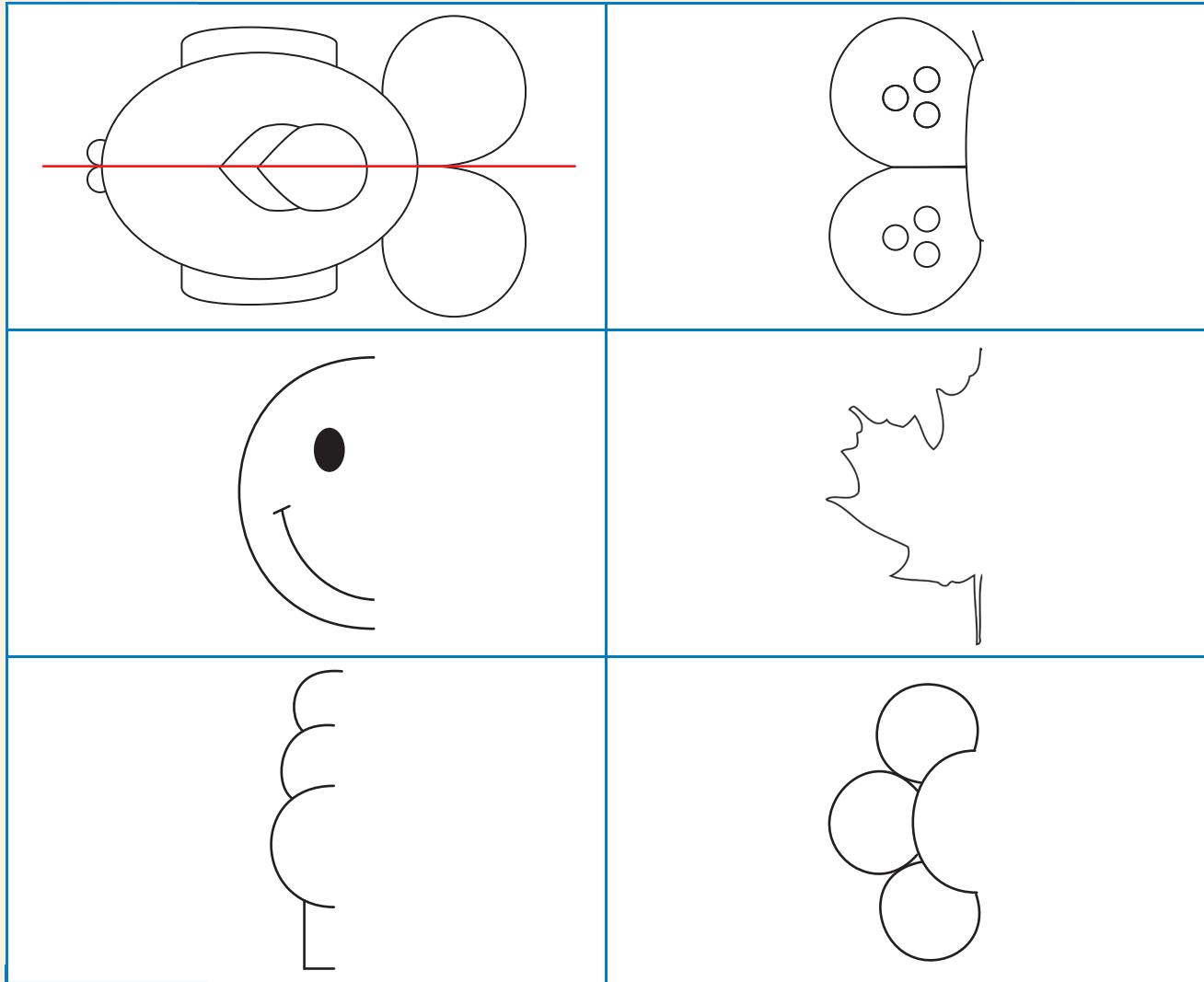


Kopulula amajamo alandelako bese ugwala umuda ozokutjengisa ukubandeka -bulingana.

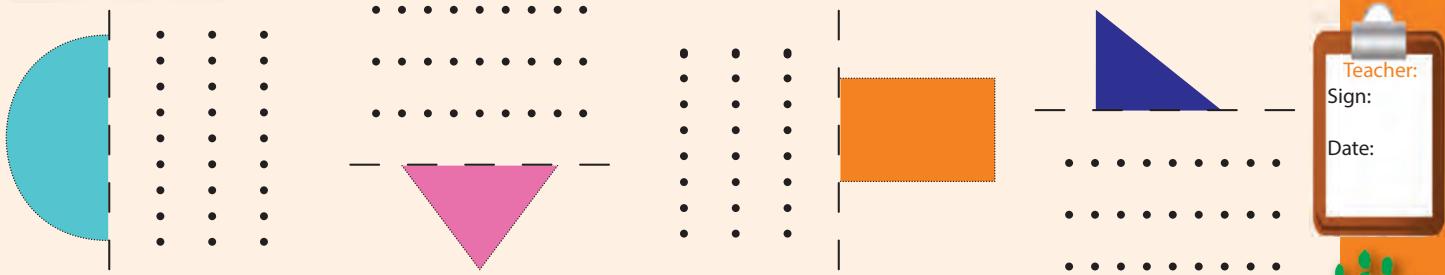




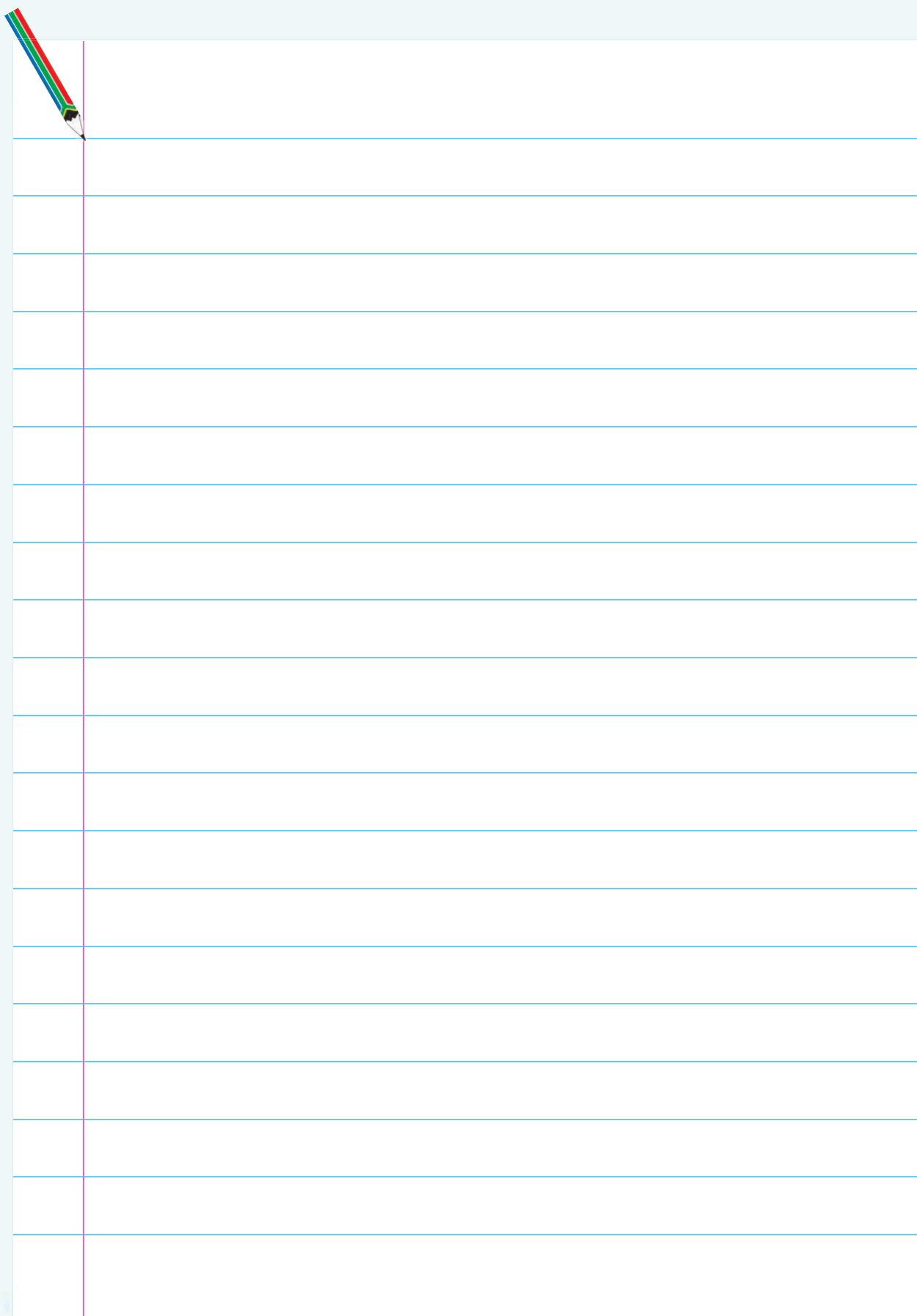
Qedelela isithombe ngokuthi ugwale enye ihafu efana
patsi nale enikelweko.



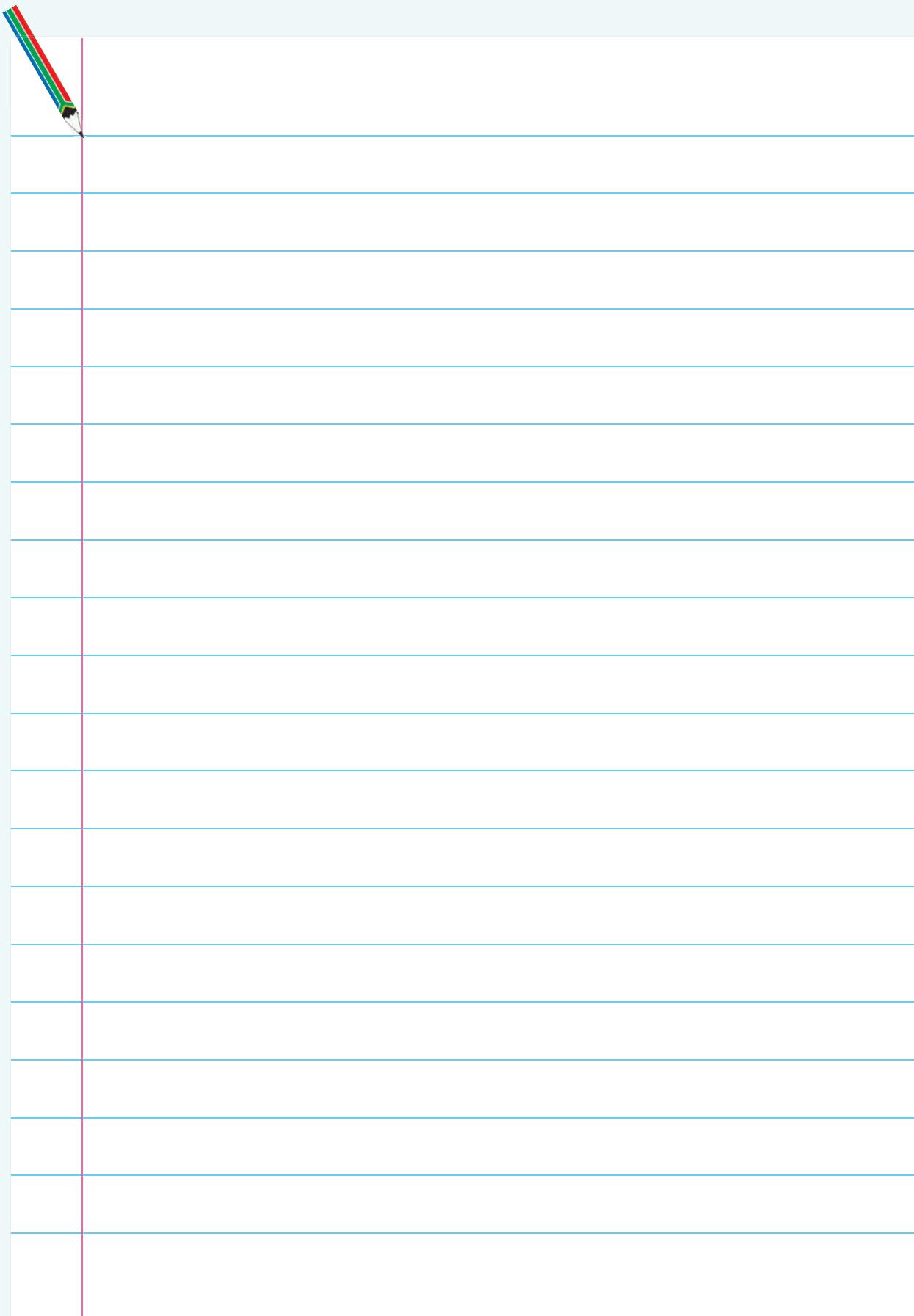
Gwala enye ihafu yamajamo.



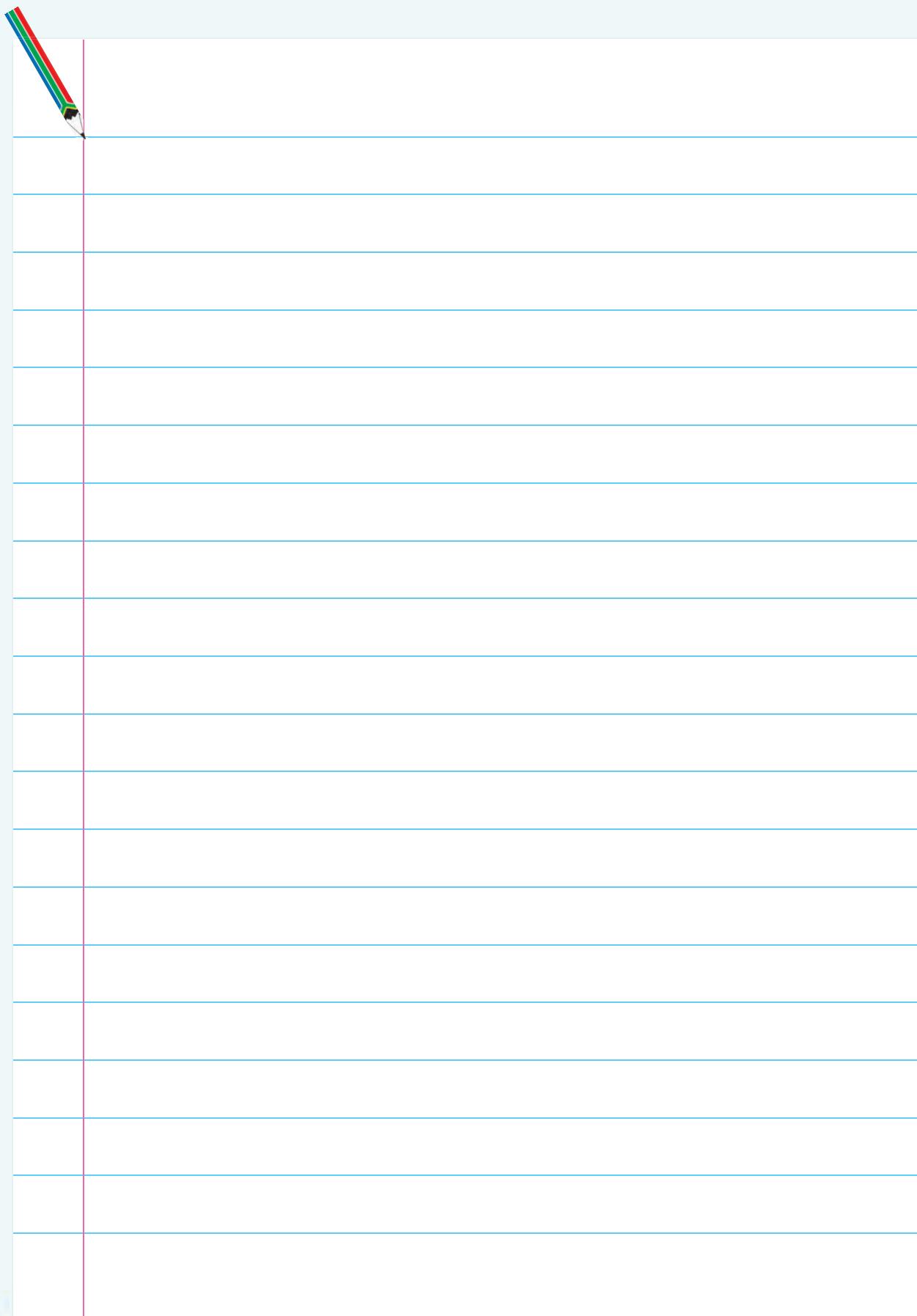
Amanowuthi



Amanowuthi

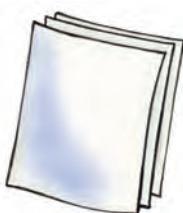
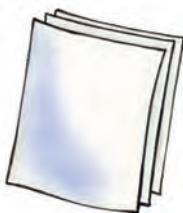
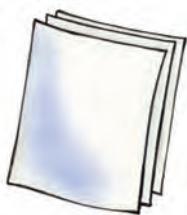
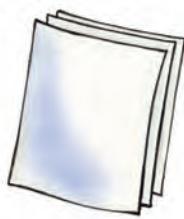


Amanowuthi



Cut-out 1

Worksheet 7q



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

Worksheet II5

72	78	82	84	86	74	80
76	88	90				

Worksheet 11q

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

