

Ukufunda ngoMthethosisekelo weRiphabliki yeSewula (1996)

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

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

Kuqakathekile ukwazi izehlakalo zesikhathini esidlulile ko.

Asingabu yeleli iimphoso zangesi khathi esidlulile ko.

UMthethosise kelo usisiza ukucabanga nok wakha ilingomuso eling cono lethu so ke.

Thina, abantu beSewula Afrika;

Siyakwazi ukungaphatheki kuhle kwethu ngokomthetho esikhathini esadlulako;

Siphathela phezulu abahlukunyezwa ngebanga lokobana

kube nobulungiswa begodu nekululeko enarheni yekhethu;

Sihlonipha labo abasebenze ekwakheni begodu nekuthuthukiseni iphasi lekhetu;

begodu bakholelwa bonyana iSewula Afrika ngeyabo boke abahlala kiyo, sibambene ngokwahlukahlukana kwethu.

Ngalokho-ke, ngabajameli bethu abakhethwe ngokukhululekileko; samukela uMthetho-sisekelo lo njengoMthetho wokuthoma weRiphabliki oza-

Kuqeda ukwahlukana okwadlulako begodu sakhe umphakathi ozokudzimelela kuminqopho yentando yenengi, ubulungiswa begodu namalungelo wangokomthetho wobuntu.

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

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

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

Funa ngekani amalungelo wakho njengesa khamuzi seSewula Afrika bewube nesibopho sokuvikela amalungelo wabanye abantu.

Ukwazi umThethomling wa wamalungelo Kanye nomThethomling wa weembopho.

UZimu akavikele abantu bekhethu.

Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.

God seën Suid-Afrika. God bless South Africa.

Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.

ISBN 978-1-4315-0129-8



9 781431 501298



**MATHEMATICS IN ISINDEBELE
GRADE 1 – BOOK 2**

TERMS 3 & 4

ISBN 978-1-4315-0129-8

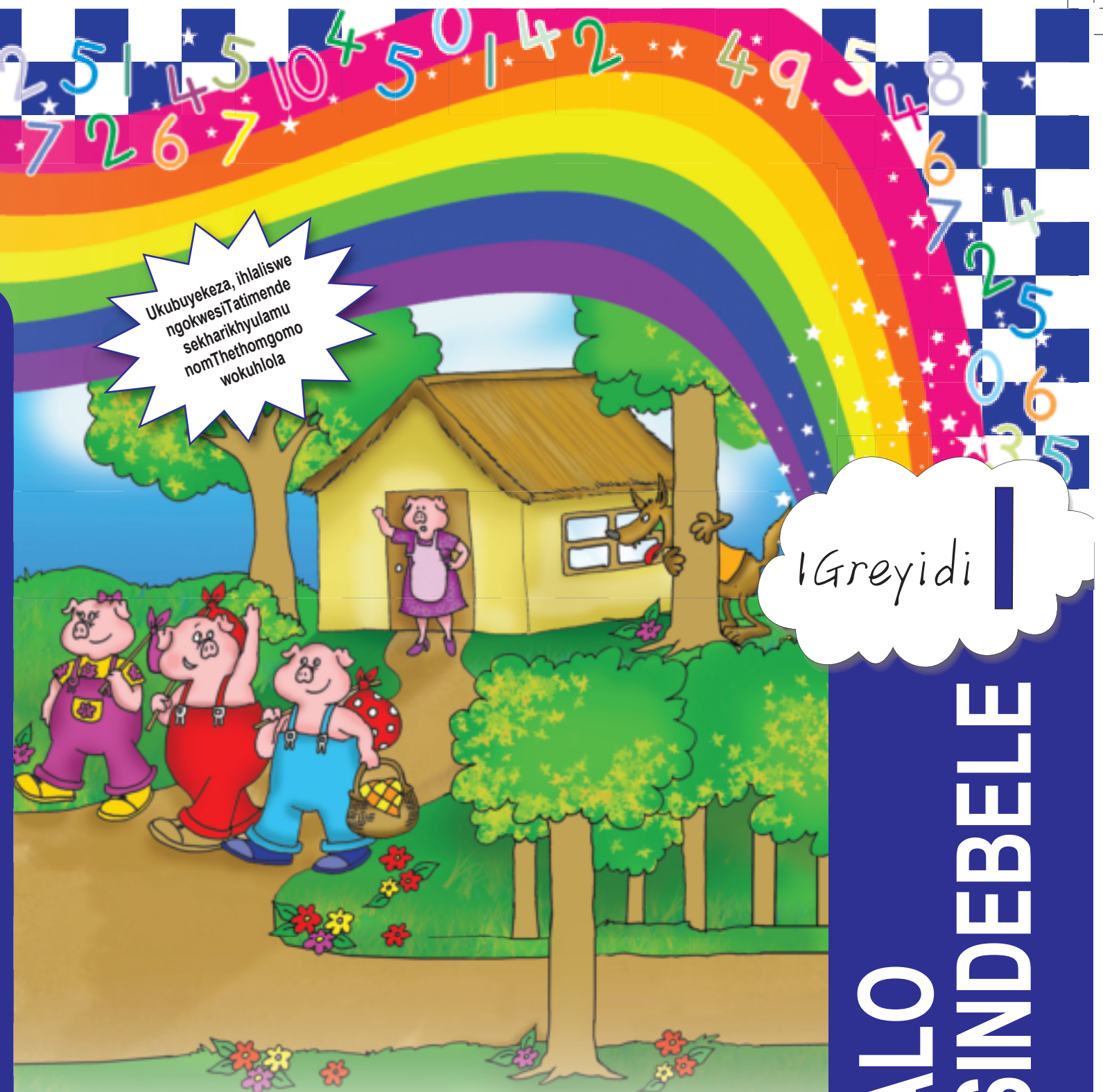
THIS BOOK MAY NOT BE SOLD.

15th Edition



IMBALO NGESINDEBELE – iGreyidi | Incwadi 2

ISBN 978-1-4315-0129-8



Ibizo:

Itlasi:



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**IMBALO
NGESINDEBELE**

Incwadi 2

*Ithemu
3 & 4*

Okumumethweko

Inomboro	Isihloko	Ikhasi
65	Ukuzwisa inomboro ye -11	2
66	Ukuzwisa inomboro -12	4
67	Ukuzwisa inomboro -13	6
68	Ukuzwisa inomboro -14	8
69	Ukuzwisa inomboro -15	10
70	Ukuhlangerisa bekufike ema -20 – Ragela njalo phambili	12
71	Ukuhlangerisa – ukwakha nokuhlephula iinomboro bekufike e-10	14
72	Ukuhlangerisa – ukwakha nokuhlephula iinomboro kufika ema -20	16
73	Ukuhlangerisa nokukhupha – ukwakha nokuhlephula	18
74	Ubude	20
75	Imali netjhentjhi	22
76	Imali netjhentjhi	24
77	Imali: Ukuhlangerisa nokukhupha	26
78	Idatha	28
79	Ilanga nesikhathi	30
80	Amabuthelo wangakuhlanu bekufike e-15	32
81	Ngakuhlanu: ukuhlangerisa okubuyelelwe bekufike e-15	34
82	Ngakuhlanu bekufike e-15	36
83	Amaphetheni weenomboro zangakuhlanu bekufike ema-50	38
84	Amaphetheni weenomboro	40
85	Ukubuyelela kabili	42
86	Amahafu	44
87	Izinto ezima -3D	46
88	Izinto ezima -3D – Ukutjhelela nokugedeka	48
89	Amaphetheni wejiyomethri	50
90	Amabuthelo wangakubili bekufike e-15	52
91	Ukuhlangerisa okubuyelelwe kabili bekufike e-15	54
92	Ngakubili bekufike e-15	56
93	Amaphetheni wangaku-2 ukufika ema-50	58
94	Ukubandeka-bulingana/Isimethri	60
95	Iinomboro nobukhulu bedijidi	62
96	Ubude	64

Inomboro	Isihloko	Ikhasi
97	Inomboro ye-16	66
98	Inomboro ye-17	68
99	Inomboro ye-18	70
100	Inomboro ye-19	72
101	Inomboro 20	74
102	Ukuhlangerisa	76
103	Ukukhupha	78
104	Ukuhlangerisa nokukhupha	80
105	Iinomboro ezijayelekileko	82
106	Izinto namajamo	84
107	Imali	86
108	Ezinye iimbalo zemali	88
109	Amajamo aji -2D	90
110	Amajamo we-2-D – amahlangothi anqophileko nayindulungu	92
111	Amanye amajamo we – 2-D	94
112	Amabuthelo wangakuhlanu bekufike ema-20	96
113	Okuhlanu – ukuhlangerisa okubuyelelweko bekufike ema-20	98
114	Ukwahlukaniselana bekufike ema-20	100
115	Amaphetheni weenomboro – ngakuhlanu bekufike e-100	102
116	Indawo nakubonakala	104
117	Amabuthelo wangakubili bekufike ema-20	106
118	Ngakubili – ukubala okubuyelelweko bekufike ema-20	108
119	Amaphetheni weenomboro – ngakubili bekufike e-100	110
120	Iphetheni yeenomboro – ngakubili bekufike e-100	112
121	Imasi (ubudisi)	114
122	Ukubuyelela kabili	116
123	Ukuhafu	118
124	Idatha	120
125	Enye idatha	122
126	Umthamo	124
127	Amaphetheni wejiyomethri	126
128	Isimethri/Ukubandeka-bulingana	128



Ksz. Siviwe Gwarube
nguNqgonqgotjhe
weFundo-Sisekelo



Dorh. Reginah Mhaule,
nguSekela
kaNqgonqgotjhe
weFundo-Sisekelo

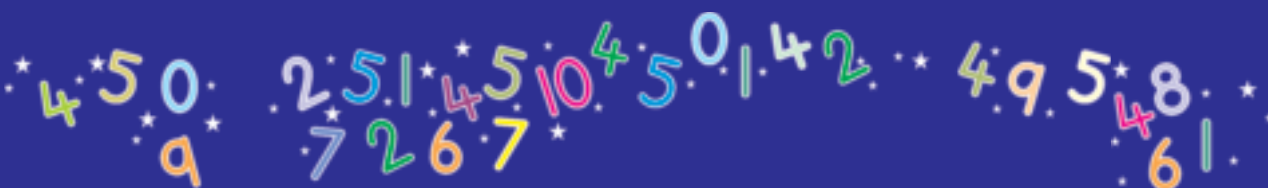
Iincwadi lezi zenzelwe abantwana beSewula Afrika ngaphasi koburholi bakaNqgonqgotjhe wezeFundo-Sisekelo Ksz. Siviwe Gwarube, kanye neSekela lakhe Dorh. Reginah Mhaule.

Iincwadi zokuSebenzela zakwaRainbow ziyingcnyene yeendlela ezinengi zomNyango wezeFundo-Sisekelo wokungenelela onqophe ukuthuthukisa ukusebenza ngcono kwabafundi beSewula Afrika kumagreyidi wokuthoma asithandathu. Njengamanye wamaHlelo womBuso aphuma phambili, iphrojekthi le isekelwe ngeemali ezibuya esiKhwameni seeMali seLizweloke. Lokhu kusize umNyango ukukhupha iincwadi zokusebenzela lezi ngawo woke amalimi asemthethweni ngaphandle kweendleko. Siyathemba kobana nizokufunyanisa iincwadi zokusebenzela lezi zilisizo khulu ekufundiseni kwenu kwangamalanga kanye nokuqinisekisa kobana abafundi benu bayayiqeda ikharikhyulamu.

Sitjheje khudlwana ukuhlahla abotitjhere komunye nomunye umsebenzi ngokusebenzisa iinthombe ezitjengisako bona ngikuphi umfundi amele akwenze.

Siyathemba kobana abantwana bazokuthabela ukusebenzisa iincwadi lezi njengombana bakhula bebefunda nje begodu wena titjhere uzokwabelana nabo ithabo lokufunda.

Sinifisela ipumelelo ekusebenziseni iincwadi lezi.



IGreyidi



ISINDEBELE

Incwadi le ngeyaka -:



ISINDEBELE

Incwadi

2

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

Ukuzwisisa inomboro ye - II

Ukubuyekeza:

Zijayeze ukutlola inomboro.



kunye

1 1

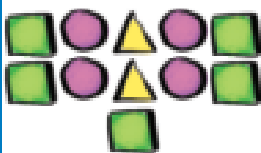
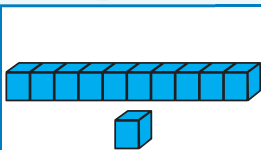


kubili

2 2



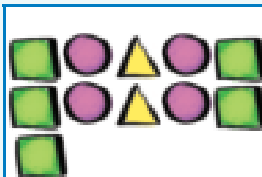
Madanisa iinthombe.



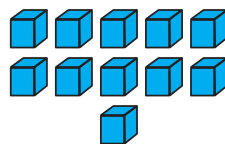
10

1

11



11



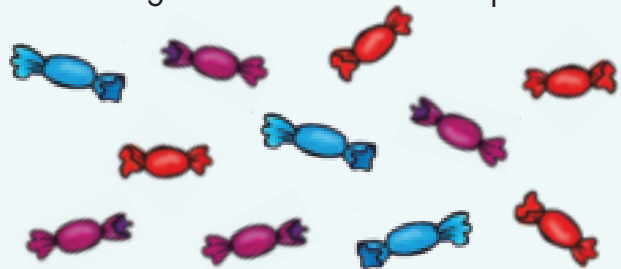
10

1



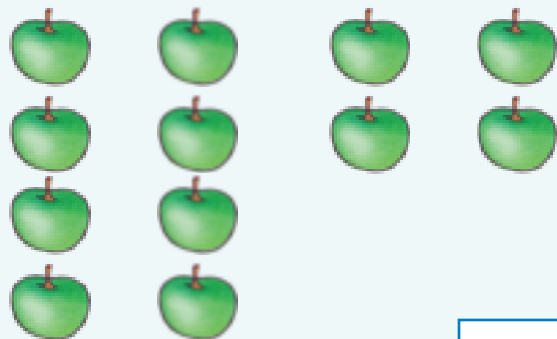
Ndulungela izinto.

Ndulungela amaswidi ali-10 kwaphela.



Kusele amaswidi amangaki?

Ndulungela ama-apula ali-10 kwaphela.



Kusele ama-apula amangaki?



0

1

2

3

4

5

6

7

8

9

10



Gadangisa iinomboro.

itjhumini nakunye			



Ikholumu ngalinye kumele lithi nalihlanganiswako lenze i-II. Qedelela ngeenomboro ezitlhayelako.

3	5	4
4	5	
4		2
II	II	II



Gwala izinto ezili-II.



Qedelela ngeenomboro ezitlhayelako.

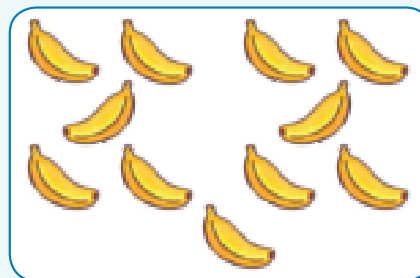
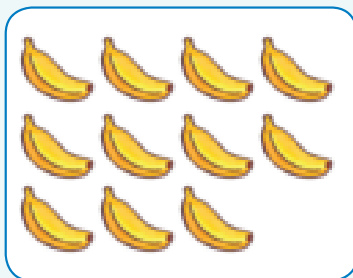
1

2

4



Bala izinto.



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

		itjhumini nanye
		itjhumini nanye
II		
	itjhumini nakunye	



Inomboro encani ngakunye ku-II. _____

Inomboro ekulu ngakunye ku-II. _____



Teacher: _____

Sign: _____

Date: _____



|| 12 13 14 15 16 17 18 19 20



66

Ilanga:

Ukuzwisisa inomboro ye-12

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



kuthathu

3 3

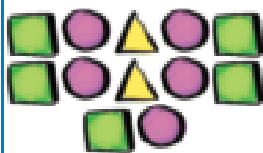
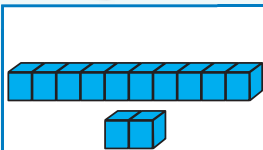


kune

4 4

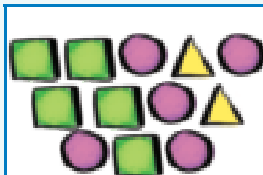


Madanisa iinthombe.

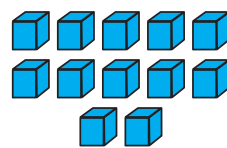


10 2

12



12



10 2



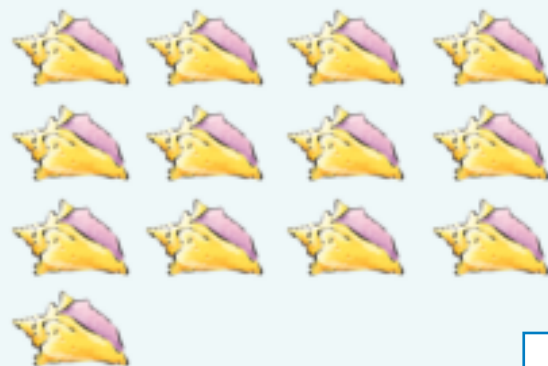
Ndulungela izinto.

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.

12 12 12 12

itjhumini nambili

12 12 12 12



Ikhholomu ngalinye kumele lithi nalihlanganiswako lenze i-12. Qedelela ngeenomboro ezitlhayelako.

	7	6
4		4
3	2	
12	12	12



Gwala izinto ezili-12.



Qedelela ngeenomboro etlhayelako.

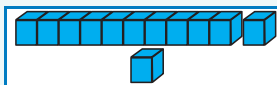
3		5			
8			11		



Bala izinto.



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



12

itjhumini nambili

12

itjhumini nambili

12

itjhumini nambili

12

itjhumini nambili

12

12



Inomboro encani ngakunye ku-12. _____

Inomboro ekulu ngakunye ku-12. _____



Teacher: _____

Sign: _____

Date: _____



11 12 13 14 15 16 17 18 19 20



Ukuzwisisa inomboro ye-13

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



kuhlanu

5 5

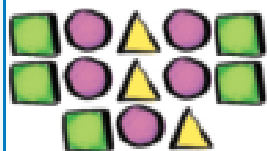
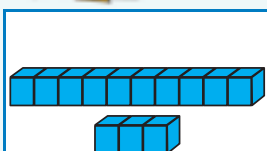


kuthandathu

6 6



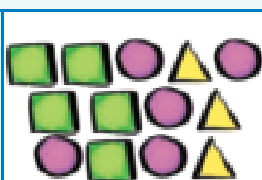
Madanisa iinthombe.



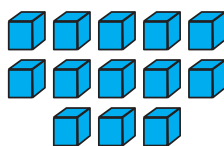
10

3

13



13



10

3



Ndulungela izinto.

Ndulungela abokatsu abali-10 kwaphela.



Kusele abokatsu abangaki?

Ndulungela amakherothi ali-13 kwaphela.



Kusele amakherothi amangaki?



0

1

2

3

4

5

6

7

8

9

10



Gadangisa iinomboro.

13 13 13 13

itjhumani nantathu

13 13 13 13



Ikhohomu ngalinye kumele lithi nalihlanganiswako lenze i-13. Qedelela ngeenomboro ezitlhayelako.

1	2	6
1		
	3	2
13	13	13



Gwala izinto ezili-13.

Kwanje zigwale ngendlela eyehlukileko.



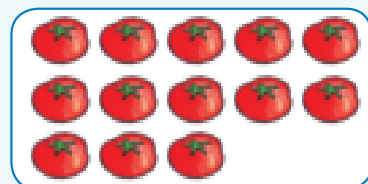
Qedelela ngeenomboro ezitlhayelako.

10

12



Bala izinto.



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



		itjhumani nantathu
	13	itjhumani nantathu
13		
	itjhumani nantathu	

Inomboro encani ngakunye ku-13. _____

Inomboro ekulu ngakunye ku-13. _____



Teacher: _____

Sign: _____

Date: _____



11 12 13 14 15 16 17 18 19 20



Ukuzwisisa inomboro ye -14

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



likhomba

7 7

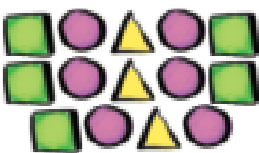
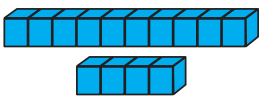


bunane

8 8

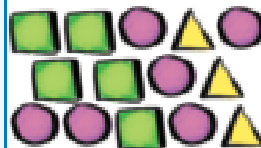


Madanisa iinthombe.

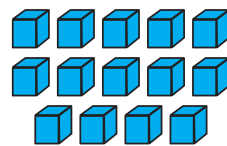


10 4

14



14



10 4



Ndulungela izinto.

Ndulungela amavivaviyani ali-10 kwaphela.



Kusele amavivaviyani amangaki?

Ndulungela amarogo ali-14 kwaphela.



Kusele amarogo amangaki?





Gadangisa iinomboro.

14 14 14 14

itjhumini nane

14 14 14 14



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

1		2
	5	1
3	2	
14	14	14

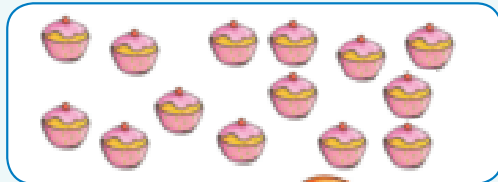
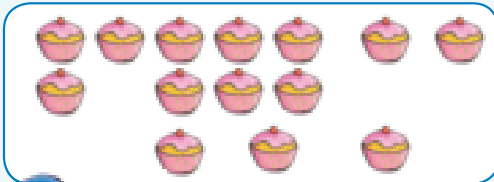


Gwala izinto ezili-14.

Kwanje zigwale ngendlela eyehlukileko.



Bala izinto.



Qedelela ngeenomboro ezitlhayelako.



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

	14	itjhumini nane
14		
	itjhumini nane	



Inomboro encani ngakunye ku-14. _____

Inomboro ekulu ngakunye ku-14. _____



Teacher:
Sign:
Date:



Ukuzwisisa inomboro ye -15

Ukubuyekeza:

Zijayeze ukutlola inomboro.



9 9



10 10



Madanisa iinthombe.

Illustration of 10 blue blocks and 5 blue blocks.

Illustration of 10 green blocks and 5 green blocks.

10 5

15

Illustration of 10 green sticks and 5 green sticks.

Illustration of 10 green blocks and 5 green blocks.

15

Illustration of 10 blue blocks and 5 blue blocks.

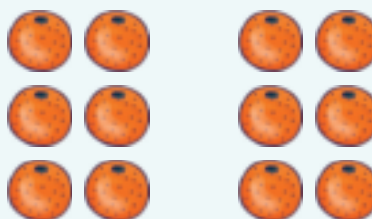
10 5

Illustration of 10 green sticks and 5 green sticks.



Ndulungela izinto.

Ndulungela ama-orentji ali-10 kwaphela.



Kusele ama-orentji amangaki?

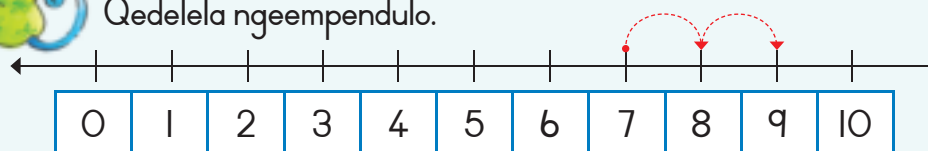
Ndulungela iinkwekwezi ezili-15 kwaphela.



Kusele iinkwekwezi ezingaki?

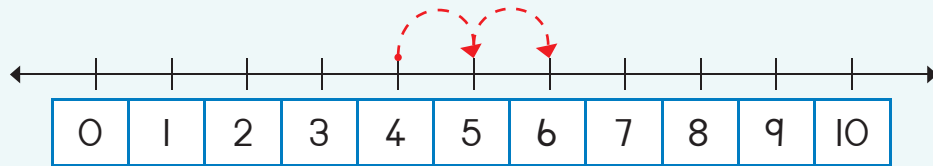
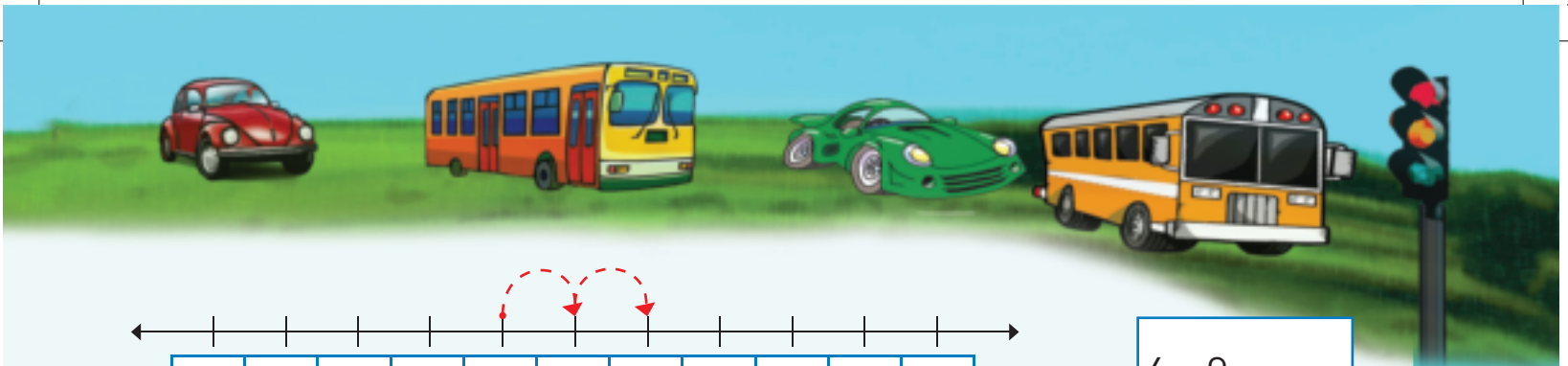


Qedelela ngeempendulo.



$$7 + 2 =$$





$$4 + 2 =$$



Gadangisa iinomboro.

15 15 15 15

itjhumini nahlanu

15 15 15 15



Gwala izinto ezili-15.

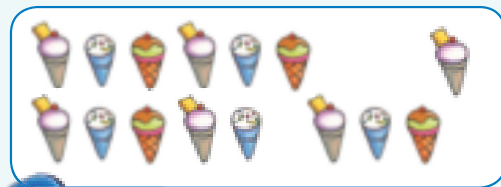
Kwanje zigwale ngendlela eyahlukileko.

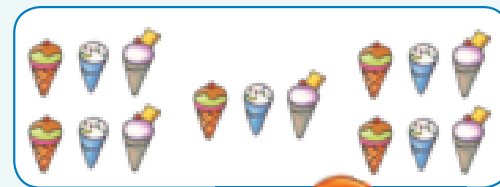


Qedelela ngeenomboro ezitlhayelako.



Bala izinto.







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



	15	itjhumini nahlanu
		itjhumini nahlanu
15		

Inomboro encani ngakunye ku-15. _____

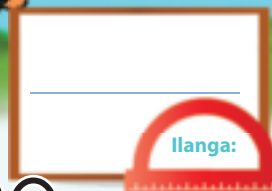
Inomboro ekulu ngakunye ku-15. _____



Teacher: _____
Sign: _____
Date: _____



11 12 13 14 15 16 17 18 19 20



Ukuhlenganisa bekufike ema - 20 – Ragela njalo phambili

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

6

sithandathu



Qalisisa isithombe bese utlola umutjho weenomboro komunye nomunye umutjho.

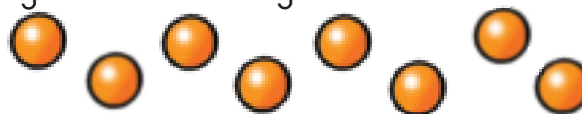
ULisa unamaswidi ama - 3. UMandla unamaswidi ama - 5. Bobabili banamaswidi amangaki?



Asibale:

3	...	4	5	6	7	8
	+		=			

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

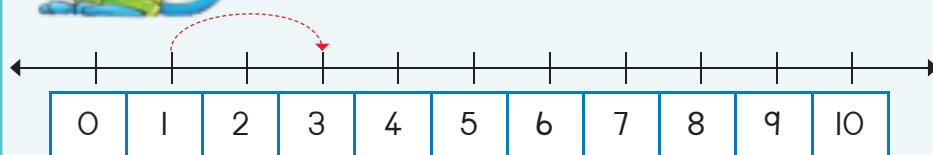


Asibale sibuyele emuva:

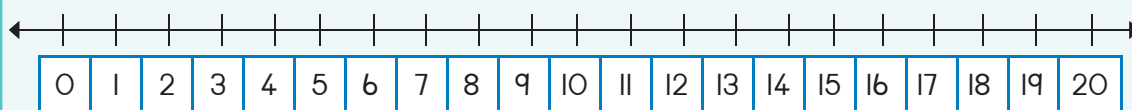
8	...	7	6	5	4
	-		=		



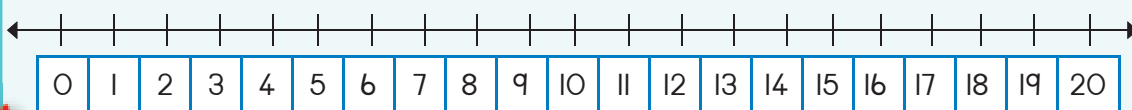
Qedelela ngeempendulo.



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



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

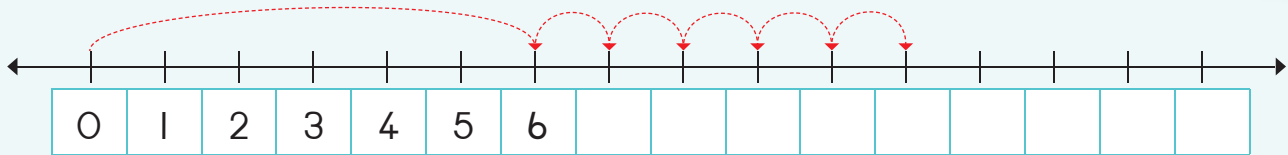


$$15 + 2 = \boxed{}$$

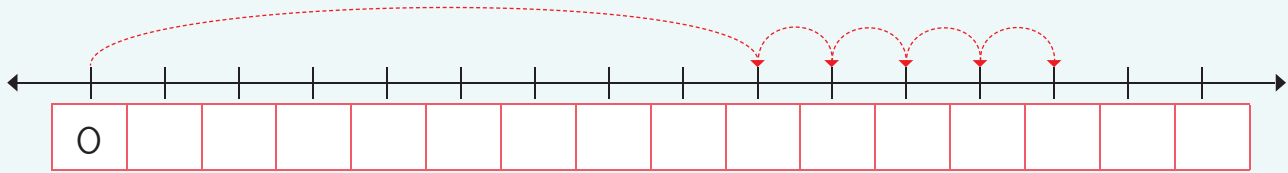




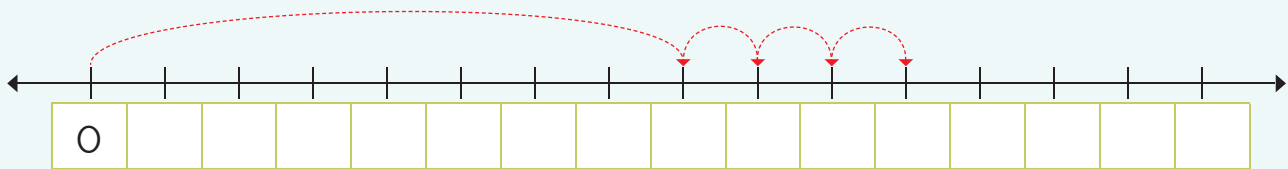
Tlola iinomboro kunambalayini bese utlola umutjho weenomboro umutjho ngamunye.



6	+	5	=	
---	---	---	---	--



--	--	--	--	--



--	--	--	--	--



Bala ngakubili.

3	5
4	
2	



7	
8	
6	



Qedelela ngeenomboro.

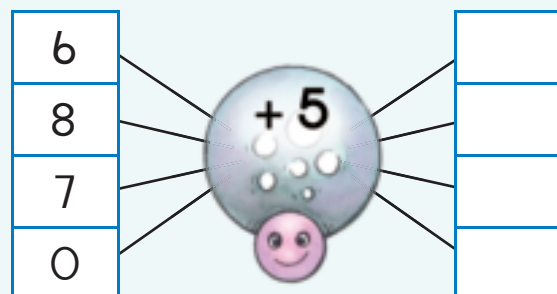
Ngineminyaka eli-7 ubudala.
Eminyakeni emi-5 ezako, ngizabe
ngineminyaka emingaki?

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

Ngizabe ngineminyaka _____.



Siza isiswebu ukuqedelela isibalo.



Teacher:
Sign:
Date:



Ukuhlanganisa – ukwakha nokuhlephula iinomboro bekufike e-10

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

7

likhomba



Qedelela ngeenomboro.

$3 + 3 = \square$



$0 + 5 = \square$



$3 + 2 + 1 = \square$



Khalara ukutjengisa okulandelako.

$3 + 9$



$4 + 8$



$5 + 7$



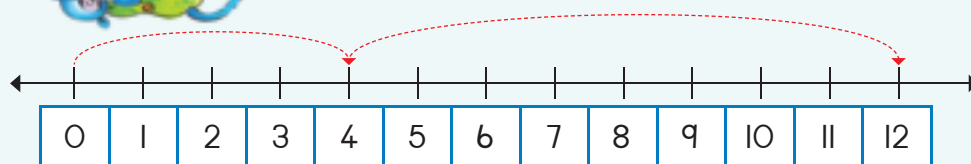
$6 + 6$



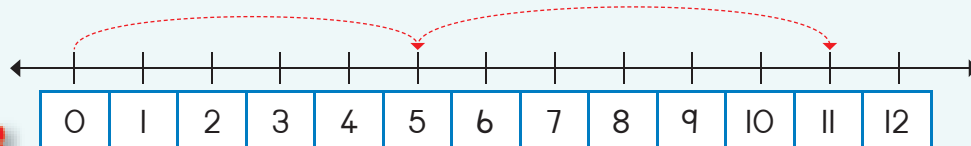
$7 + 5$



Tlola isibalo salokhu:



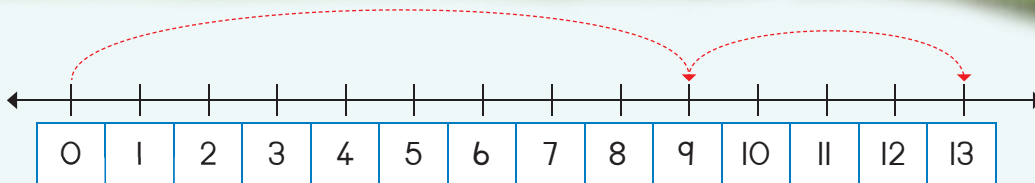
$\square + \square = \square$



$\square + \square = \square$



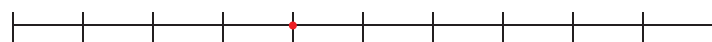
0 1 2 3 4 5 6 7 8 9 10



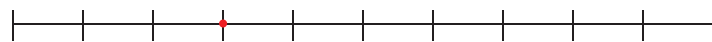
$$\square + \square = \square$$



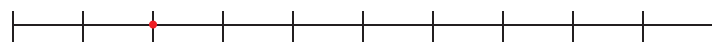
Qedelela inambalayini bese utlola ipendulo.



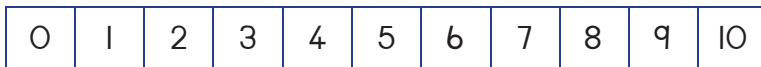
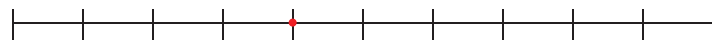
$$4 + 5 + 1 = \square$$



$$3 + 3 + 2 = \square$$



$$2 + 4 + 3 = \square$$



$$4 + 3 + 2 = \square$$



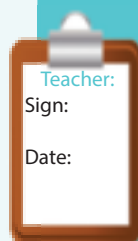
Rarulula isibalo esilandelako ngokuthi ugwale iinthombe.

Benginamabula ama-5. Umngani wami unamabula abu-8. Sobabili sinamabula amangaki sele awoke.

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

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

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



Ukuhlanganisa – ukwakha nokuhlephula iinomboro kufika ema-20

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

8

bunane

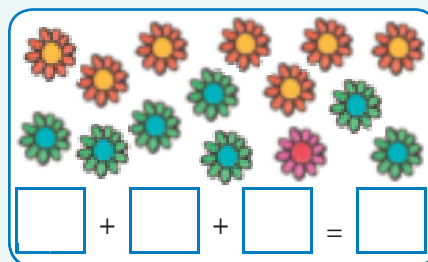
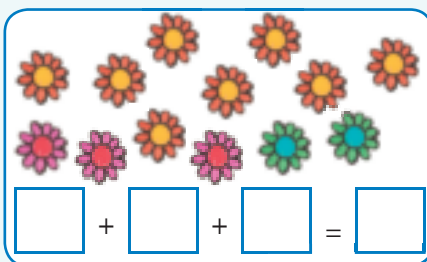
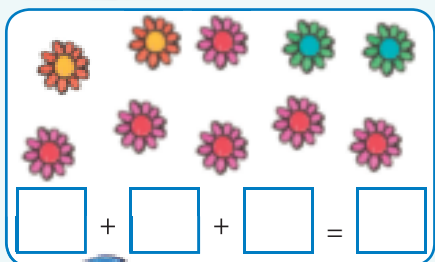


Qedelela ngependulo.

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



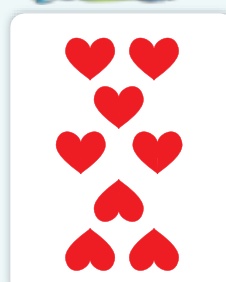
Sebenzisa umbala owehlukileko wamathuthumbo ukuzakhela yakho imitjho yeenomboro.



Siza isiswebu ukuqedelela iimbalo.



Ziinhliziyi ezingaki?



Zenzele isibalo sakho.

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





Madanisa iimpara zeenomboro ukwakha iinomboro ezilandelako.

13

7	5
8	4
9	6
10	2
11	3

11

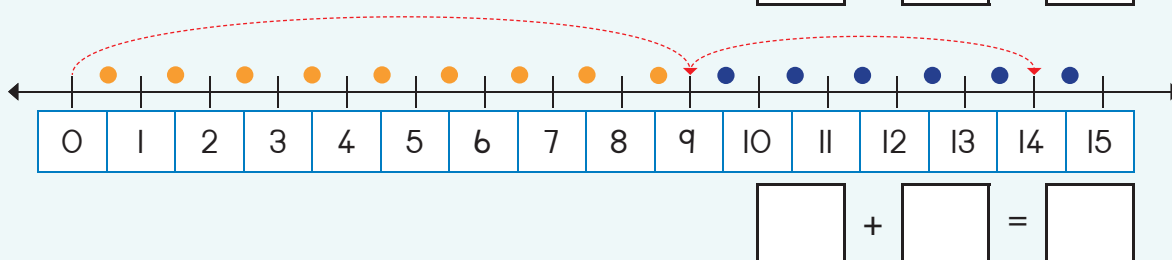
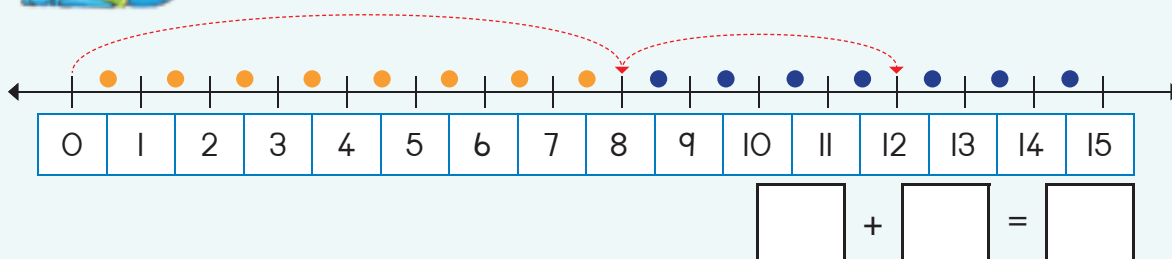
6	7
7	4
3	8
4	5
5	6

12

8	6
10	1
4	8
11	4
6	2



Tlola umutjho weenomboro walokhu:



Ukubuyekeza:

Ukubuyekeza: Khalara phezu kwependulo enembako.

ngaphambili

ngemuva

ngeqadi

ngaphambili

ngemuva

ngeqadi

ngaphambili

ngemuva

ngeqadi

ngaphambili

ngemuva

ngeqadi



11 12 13 14 15 16 17 18 19 20

Ukuhlanganisa nokukhupha – ukwakha nokuhlephula

Ukubuyekeza:

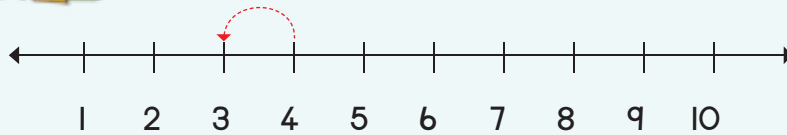
Zijayeze ukutlola ibizo lenomboro.

9

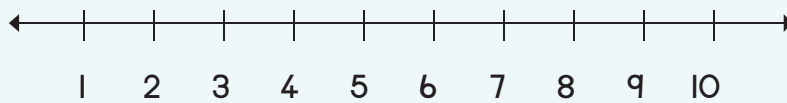
lithoba



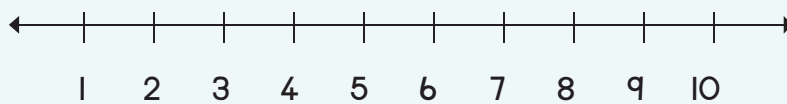
Qedelela ngependulo.



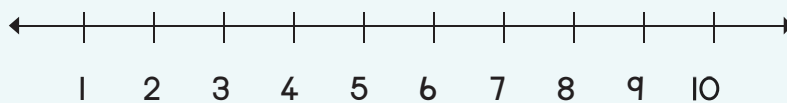
$4 - 1 =$



$5 - 3 =$



$4 - 2 =$



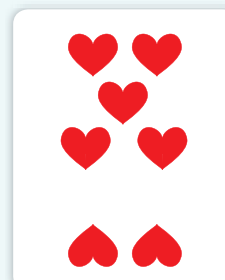
$5 - 2 =$



Siza isiswebu ukuqedelela iimbalo.



Ziinhliziyo ezingaki?



Zenzele isibalo sakho.

$\square + \square = \square$





Balisisa okulandelako.

$$\begin{array}{l} 7 + 4 = \square \\ 7 + 4 + 1 = \square \\ 10 + 1 = \square \end{array}$$

$$\begin{array}{l} 6 + 6 = \square \\ 6 + \square + \square = \square \\ 10 + \square = \square \end{array}$$

$$\begin{array}{l} 13 - 6 = \square \\ 13 - 3 + 3 = \square \\ 10 - 3 = \square \end{array}$$

$$\begin{array}{l} 12 - 8 = \square \\ \square - \square + \square = \square \\ 10 - 3 = \square \end{array}$$



Tlola iimpendulo bese uyakhalara ubuye ugwale.

$$8 + 6 = \square$$

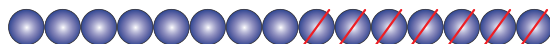


Ipendulo inganikelwa ngale indlela:



$$(8 + 2) + 4 = \square \rightarrow 10 + 4 = \square$$

$$15 - 7 = \square$$



Ipendulo inganikelwa ngale indlela:



$$(15 - 5) - 2 = \square \rightarrow 10 - 2 = \square$$

$$9 + 4 = \square$$



Ipendulo inganikelwa ngale indlela:



$$(9 + 1) + 3 = \square \rightarrow \square$$

$$14 - 5 = \square$$



Ipendulo inganikelwa ngale indlela:

$$(\square - \square) - 1 = \square \rightarrow 10 - 1 = \square$$

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

10

litjhumu

Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

19

Ubude

Ithemu 3



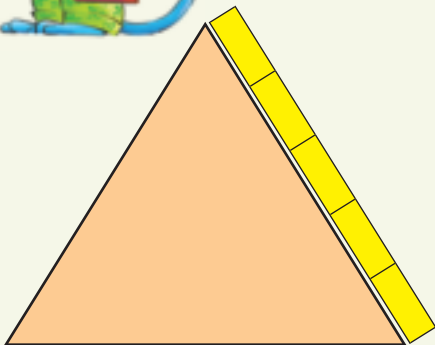
Qalisisa isithombe bese uphendula imibuzo.

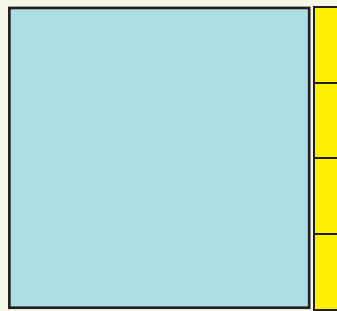
UJabu	UPam	UNomsa	UKen

Ngubani omude khulu?	Ngubani omfitjhani khulu?
Ngubani umsana omfitjhani khulu?	Ngubani umntazana omfitjhani khulu?



Amahlangothi amade wamajamo amabhlogo amangaki ubude?









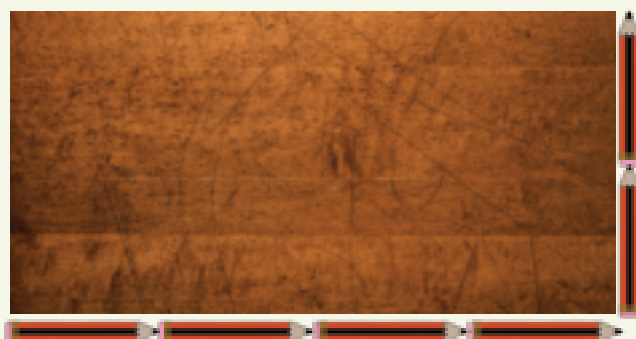


Itafula lithatha amabhlogo angangani ubude kanye nobubanzi?
Itafula lithatha iimpensela ezingangani ubude nobubanzi?



Ububanzi bamabhlogo ____.

Ubude bamabhlogo ____.

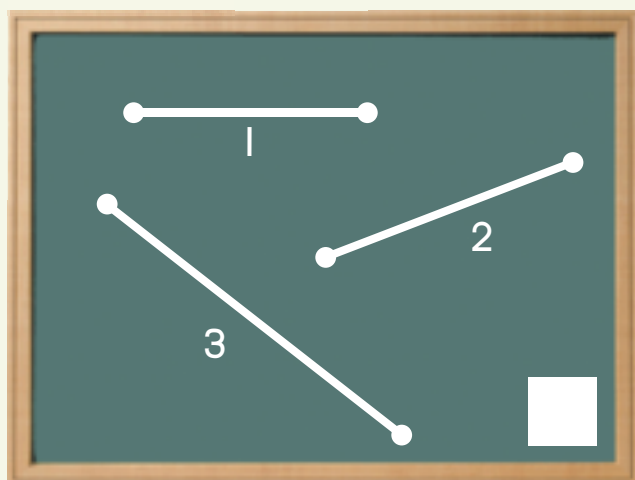


Ububanzi bamabhlogo ____.

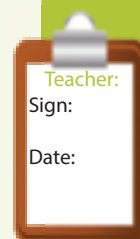
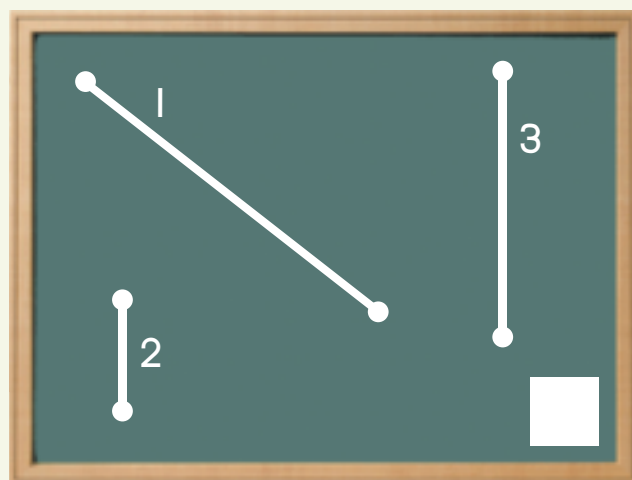
Ubude bamabhlogo ____.



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.

 ☐	 ☒	 ☐	 ☐
 ☐	 ☐	 ☐	 ☐



Thika imali yesimbi/emumuwa ezokwenza i-R10.

 ☐	 ☐	 ☐	 ☐
 ☐	 ☐	 ☐	 ☐



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-RI5:

Ngibhadela

Itjhentjhi

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



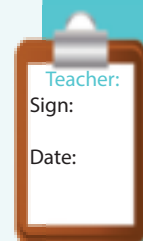
Balisisa okulandelako:

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



Yenze kobana inciphe ngama-R2.

RII		R4	
RI2		R6	
RIO		R8	



Imali netjhentjhi



Gwala imali yesimbi/emumuwa ukwenza:

R11	
R12	
R13	
R14	



Thika bewutlole
ipendulo
ekungiyiyo.

$$R18 - R8 = \quad R10$$



$$R12 - R2 = \quad$$



$$R15 - R4 = \quad$$



$$R14 - R7 = \quad$$



Balisisa okulandelako:

$R15 - R10 =$	
$R10 - R1 - R1 - R2 =$	

$R20 - R2 - R8 =$	
$R5 - R4 =$	

$R20 - R5 =$	
$R10 - R1 - R5 - R2 =$	

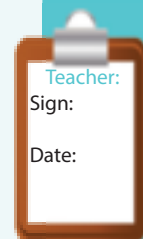
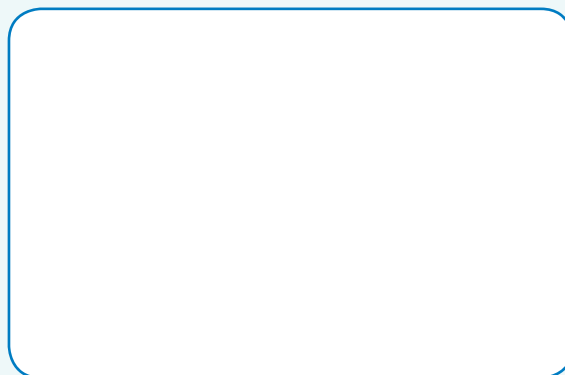


Balisisa okulandelako:

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



Nginemali ema -R15. Ngithenga iphakethe yamaswidi nge -R11.
Gwala utjengise kobana usele ngemali engangani.



Imali: Ukuhlanganisa nokukhupha



Balisisa okulandelako:

$R10 + R2 =$	
$R10 + R4 =$	
$R9 + R5 =$	
$R12 + R5 =$	

$R10 + R5 =$	
$R10 + R7 =$	
$R8 + R4 =$	
$R14 + R2 =$	

$R10 + R1 =$	
$R10 + R6 =$	
$R7 + R6 =$	
$R11 + R6 =$	



Balisisa okulandelako:

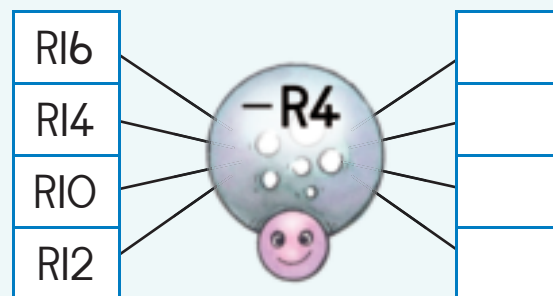
$R10 - R7 =$	
$R15 - R1 =$	
$R12 - R2 =$	
$R15 - R6 =$	

$R10 - R2 =$	
$R15 - R15 =$	
$R14 - R7 =$	
$R12 - R9 =$	

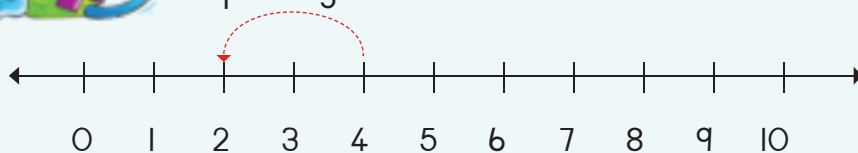
$R10 - R5 =$	
$R15 - R2 =$	
$R16 - R6 =$	
$R14 - R4 =$	



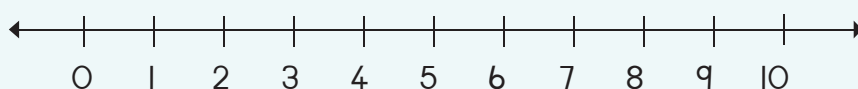
Siza isiswebu ukuqedelela iimbalo.



Nciphisa ngemali ema-R2.



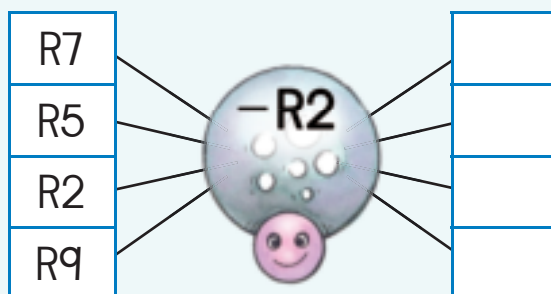
$$R4 - R2 =$$



$$R7 - R2 =$$



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?

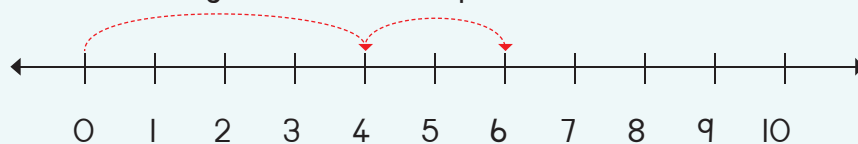


Ngibulunge imali engangani?

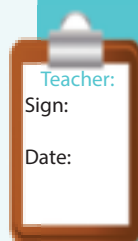
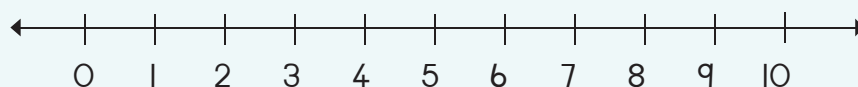


Tjengisa isibalo kunambalayini bese ubalisisa ipendulo.

$R4 + R2 =$



$R8 + R2 =$



Teacher:

Sign:

Date:



12

13

14

15

16

17

18

19

20



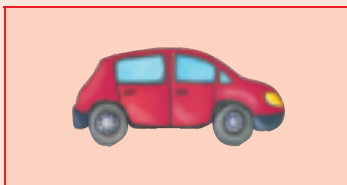
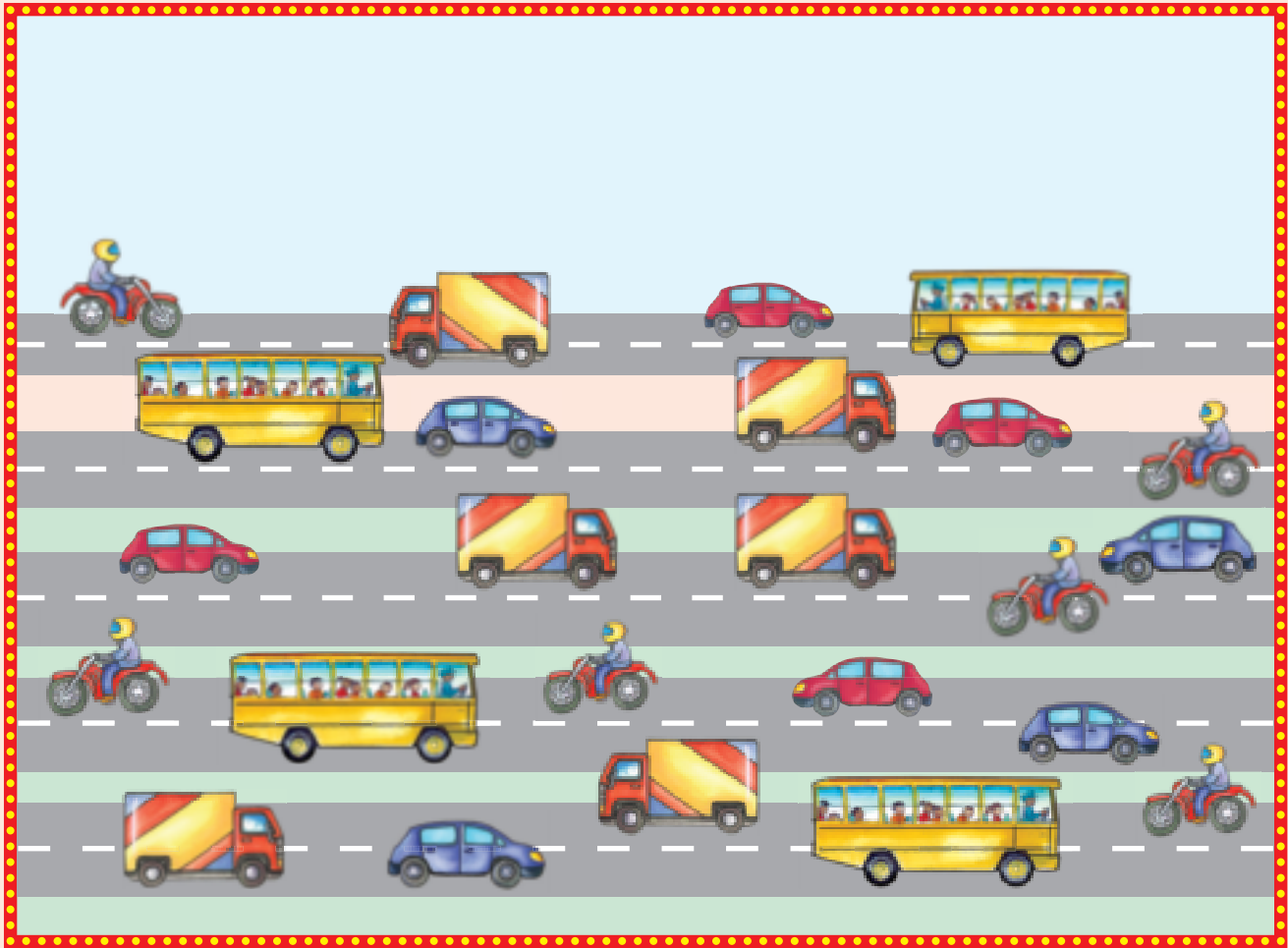
27

Idatha



Bala kobana ubona imihlobo emingaki yeenkoloji.

Ithemu 3





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



5						
4						
3						
2						
1						

Ubunengi bakhona _____.

Ubuncani bakhona _____.



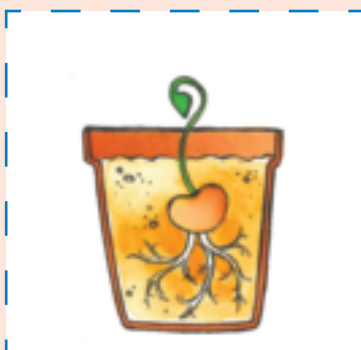
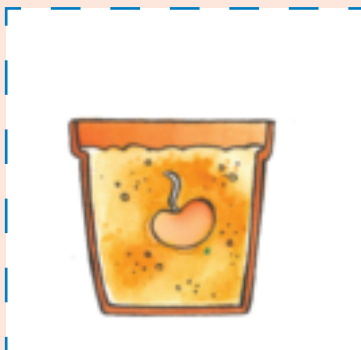
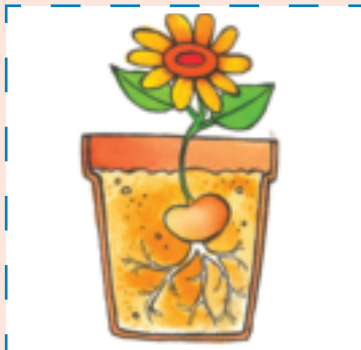
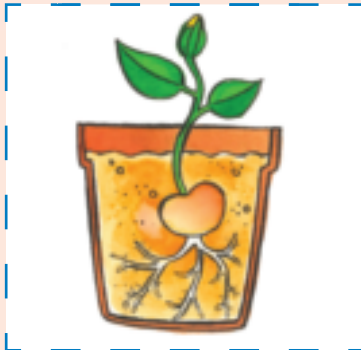
Teacher: _____
Sign: _____
Date: _____



Ilanga nesikhathi



Cocisanani ngeenthombe bese nizibeka ngendlela ezilamana ngayo.



1



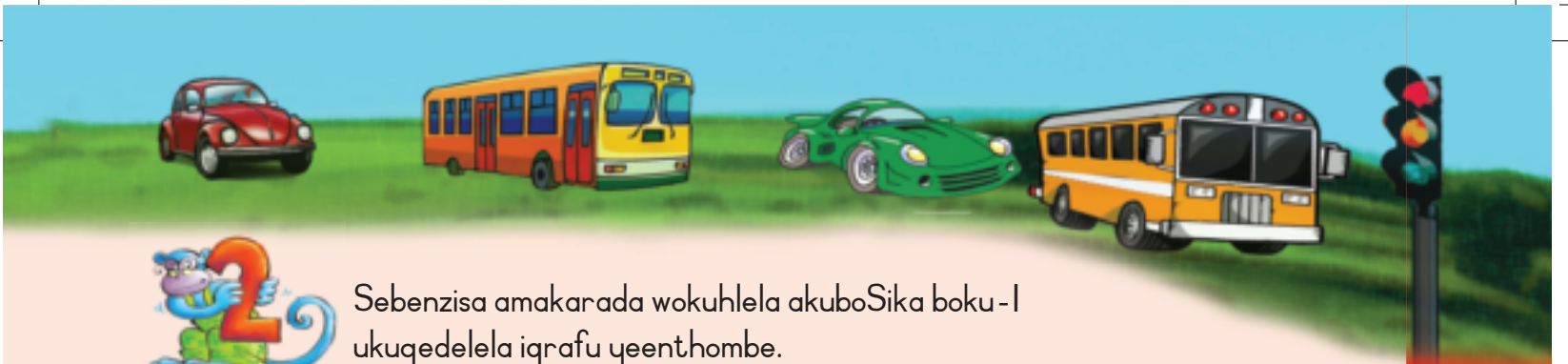
2



3



4



Sebenzisa amakarada wokuhlala akuboSika boku-I
ukuqedelela igrafu yeenthombe.



--	--	--	--



Teacher:
Sign:
Date:



Amabuthhelelo wangakuhlano bekufike e-15

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

5

kuhlano



Qalisisa isithombe bese uphendula umbuzo.



Qalisisa isithombe.

Isibalo lesi singatlolwa ngale indlela: Gwala ipendulo yakho lapha.

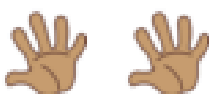
Ungenza amabuthhelelo wangaku-5 amangaki?



Ibuthhelelo elilodwa langaku-5 lenza oku-5



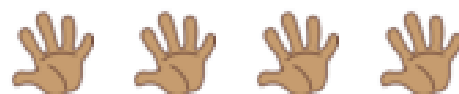
Bala imino bese utlola ipendulo.



$$5 + 5 =$$

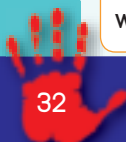


$$5 + 5 + 5 =$$



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

Amabuthhelelo amabili wangakuhlano enza i-10



0

1

2

3

4

5

6

7

8

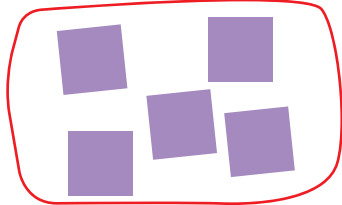
9

10



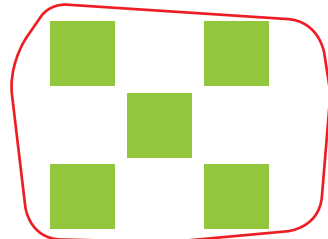
Gwala iiyingi undulungele okulandelako ukwenza:

Ibuthelelo elilodwa langaku-5 lenza oku-5

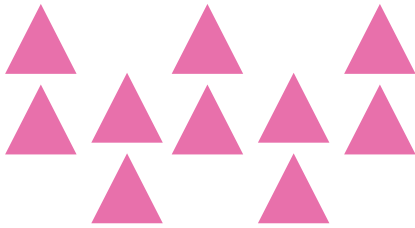




Tlola imitjho yeenomboro yalokhu okulandelako:

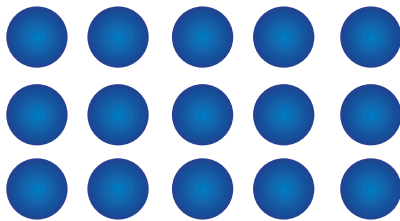


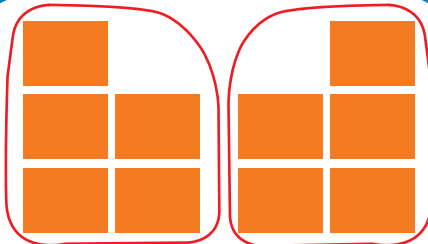
Amabuthhelelo ama-2 wangaku-5





Amabuthhelelo ama-3 wangaku-5







Ungabeka amabuthhelelo wangakuhlanu amangaki ngalokhu?

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



Teacher:
Sign:
Date:



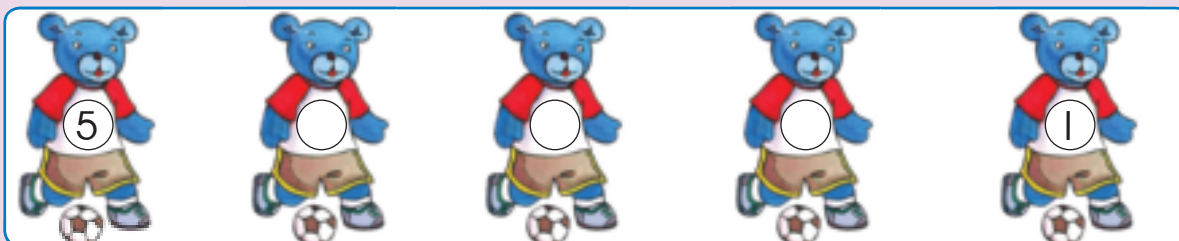


Ngakuhlani: ukuhlanganisa okubuyelelweko bekufike e-15

Ithemu 3

Ukubuyekeza:

Ukubuyekeza: Qedelela ngeenomboro ezitlhayelako.



Mazwani amangaki nanyana mimino emingaki? Tlola umutjho weenomboro.



Ibuthelelo lamabhanana amahlanu

Amabuthhelelo amabili wamabhanana ibuthelelo ngalinye

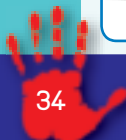
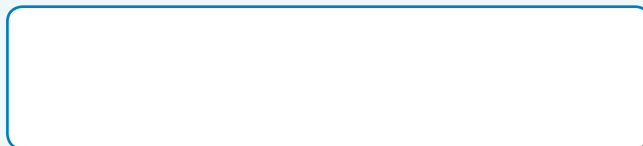
Gwala:



Gwala amajamo wokulandelako.

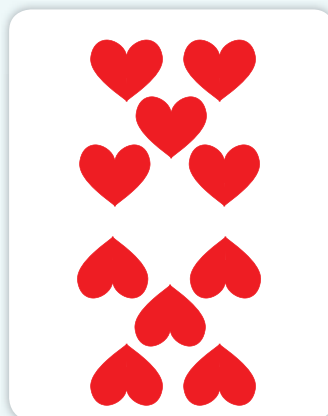
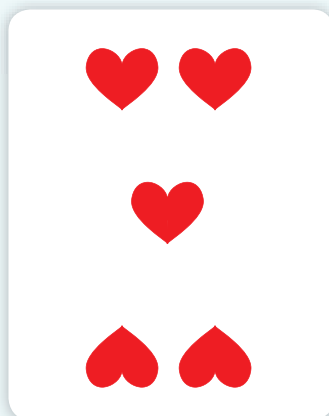
$$5 + 5 = 10$$

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





Ndulungela bewubale kobana ungabeka amabuthhelelo wangakuhlanu amangaki keline elinye ikarada.



Tlola umutjho weenomboro walokhu:



Sebenzisa imibala eyahlukeneko ukutjengisa iinomboro ozoyisebenzisa ukubeka amabuthhelelo wangakuhlanu.

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



Ungabeka amabuthhelelo wangakuhlanu amangaki?

1	begodu	14	kwenza		amabuthhelelo
13	begodu	2	kwenza		amabuthhelelo
8	begodu	2	kwenza		amabuthhelelo
7	begodu	8	kwenza		amabuthhelelo
9	begodu	2	kwenza		amabuthhelelo



Teacher:

Sign:

Date:





Ngakuhlanu bekufike e-15



Tlola iinomboro ezitlhayelako.

I		3		5		7	8	9	
II	12								

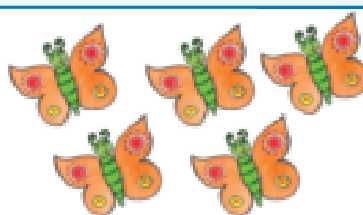
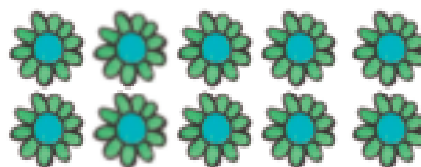


Beka amabuthhelelo wangakuhlanu. Unomabhonjwana ngamunye umele abe namacaphazi amahlanu ephikweni ngalinye. Gwala amacaphazi atlhayelako.





Tlola umutjho weenomboro walokhu okulandelako.



Balisisa okulandelako:

$$0 + 5 = \square$$

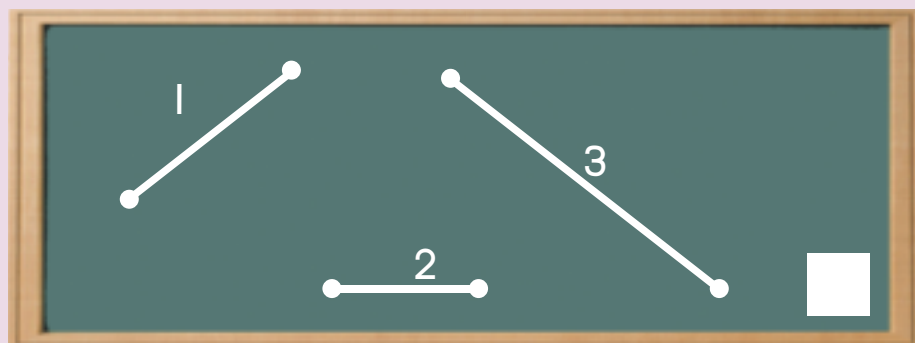
$$5 + 5 + 5 = \square$$

$$5 + 5 = \square$$

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

Ukubuyekeza:

Ukubuyekeza: Ngiwuphi umuda omude?



Teacher:
Sign:
Date:



12 13 14 15 16 17 18 19 20



Amaphetheni weenomboro zangakuhlanu bekufike ema-50

Ithemu 3

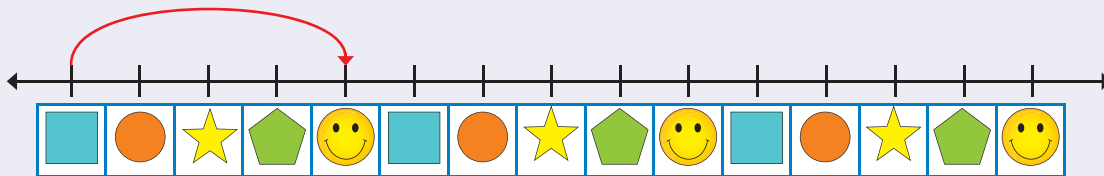


Qedelela iphetheni yangakuhlanu ngokukhalara phezu kweenomboro.

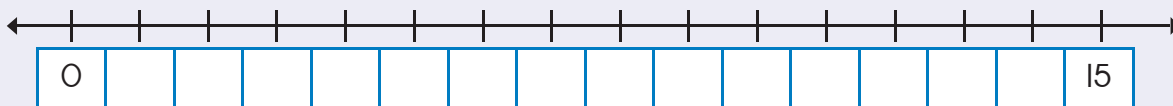
I	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Gwala amawulawubhu ukutjengisa amabuthhelelo wangakuhlanu.

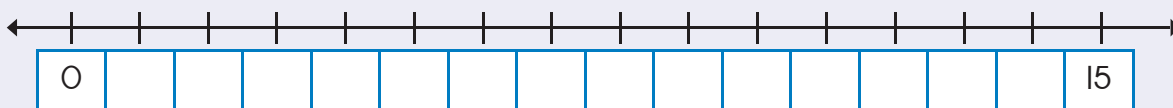


Qedelela ngeenomboro ezitlhayelako bese ugwala amawulawubhu ukutjengisa amabuthhelelo wangakuhlanu.



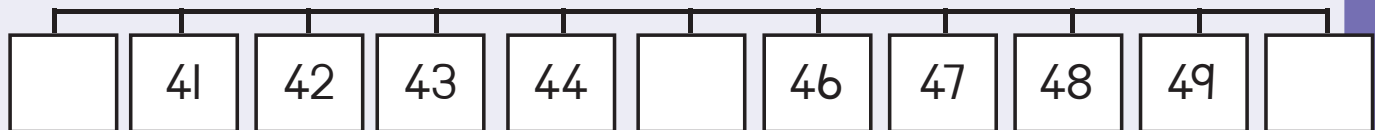
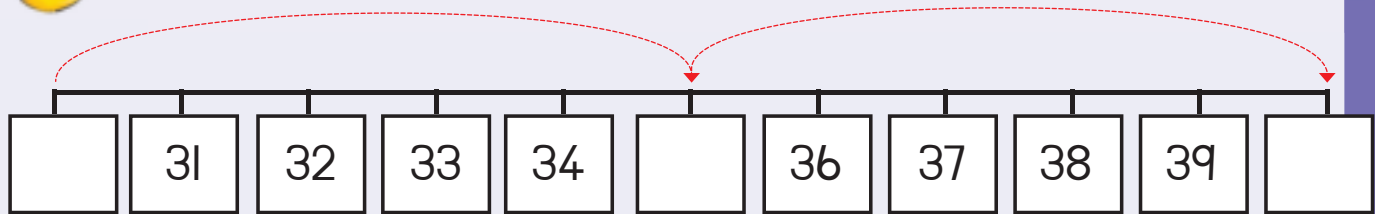
Qedelela inambalayini. Gwala amawulawubhu ukutjengisa amabuthhelelo wangakuhlanu.

Kunamabuthhelelo wangakuhlanu.



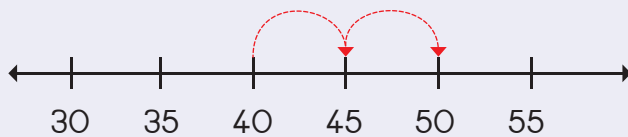


Sika iinomboro ezitlhayelako kiboSika bakho besi - 2 bese
uzibeke phezu kwenambalayini.

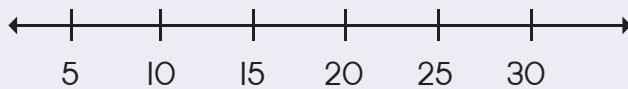


Gwala amawulawubhu ukutjengisa okulandelako:

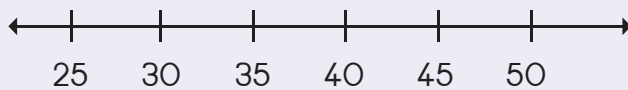
40, 45, 50



10, 15, 20



25, 30, 35



Teacher:
Sign:
Date:





Amaphetheni weenomboro

Ithemu 3



Esithombeni, ubona amabuthhelelo wangakuhlano amangaki?



Qedelela iinthombe ezilandelako ukutjengisa amabuthhelelo amabili wangakuhlano ebhlogweni ngalinye.



0

1

2

3

4

5

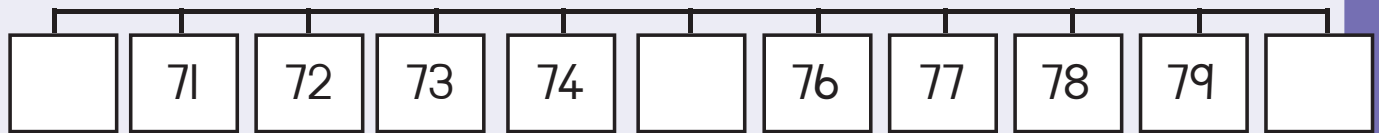
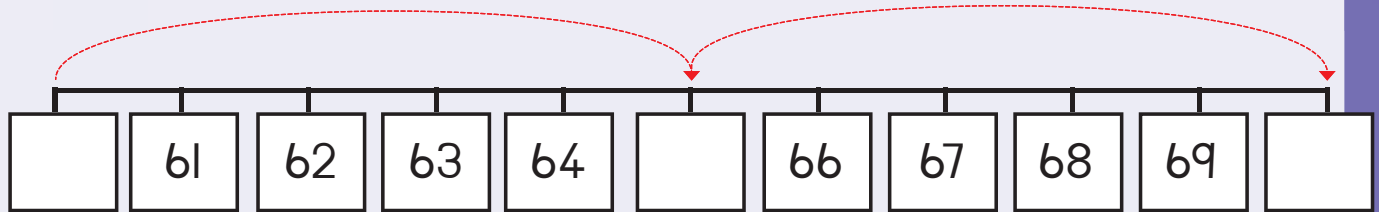
6

7

8

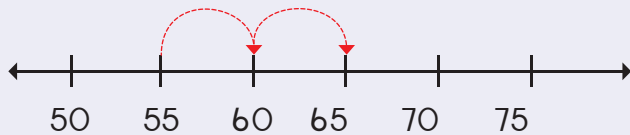
9

10

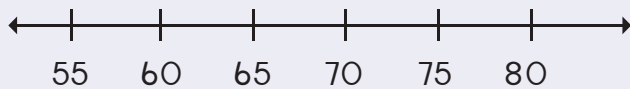


Gwala amawulawubhu ukutjengisa okulandelako:

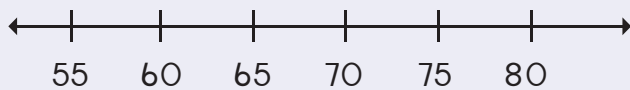
55, 60, 65



65, 70, 75



70, 75, 80



Teacher:
Sign:
Date:





Ukubuyelela kabili

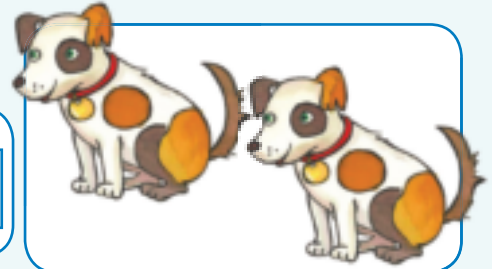
Ithemu 3



Buyelela kabili izinto bese utlola ipendulo.



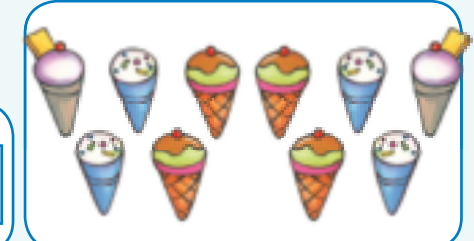
u-1 nakabuyelelwe
kabili, ipendulo



u-4 nakabuyelelwe
kabili, ipendulo



u-5 nakabuyelelwe
kabili, ipendulo



Bala amajamo wephiko leviyaviyani ngalinye.

Qedelela inomboro ebuyelelwe kabili emutjhwani weenomboro.



$$7 + 7 =$$

nanyana

u-7 obuyelelwe kabili =



$$5 + 5 =$$

nanyana

u-5 obuyelelwe kabili =

$$2 + 2 =$$

nanyana

u-2 obuyelelwe kabili =





Qedelela okulandelako:

Sithi isi-6 nasibuyelelwe kabili senza i-12. Kuzokubayini isiquntu/ihafu yaka-12? _____

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



Bala amacaphazi bese uwabuyelela kabili.

●	1	ukubuyelela kabili →	●●	2
●●	2	ukubuyelela kabili →	●●●●	
●●●●	3	ukubuyelela kabili →	●●●●●●	
●●●●●●	4	ukubuyelela kabili →	●●●●●●●●	
●●●●●●●●	5	ukubuyelela kabili →	●●●●●●●●●●	



Buyelela kabili iinomboro.

4	ukubuyelela kabili →	8
5	ukubuyelela kabili →	
6	ukubuyelela kabili →	
3	ukubuyelela kabili →	
2	ukubuyelela kabili →	
10	ukubuyelela kabili →	



Qedelela okulandelako:

Iveke inamalanga amangaki? <table border="1"> <tr> <th>Snd</th><th>Mvl</th><th>Lsb</th><th>Lst</th><th>Lsn</th><th>Lsh</th><th>Mqb</th></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb								Iimveke ezimbili zinamalanga amangaki? <table border="1"> <tr> <th>Snd</th><th>Mvl</th><th>Lsb</th><th>Lst</th><th>Lsn</th><th>Lsh</th><th>Mqb</th><th>Snd</th><th>Mvl</th><th>Lsb</th><th>Lst</th><th>Lsn</th><th>Lsh</th><th>Mqb</th></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb	Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb														
Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb																																					
Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb	Snd	Mvl	Lsb	Lst	Lsn	Lsh	Mqb																														
Ubona iinyawo ezingaki? 	Kwanje ubona iinyawo ezingaki? 																																										
Sithi i-7 nalibuyelelwe kabili lenza i-14. Kuzokubayini isiquntu/ihafu ye-14?	Sithi oku-2 nakubuyelelwe kabili kwenza oku-4. Kuzokubayini isiquntu/ihafu yaka-4?																																										



Qedelela okulandelako:

$2 + 2 + 1 =$	5	nanyana	Ukubuyelela kabili $2 + 1 = 5$
$4 + 4 + 1 =$		nanyana	
$7 + 7 + 1 =$		nanyana	

Teacher:
Sign: _____
Date: _____

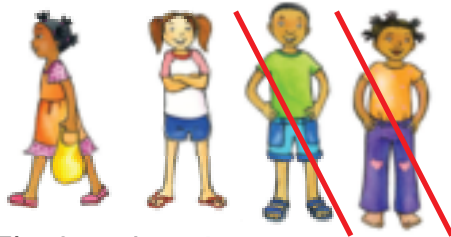


Amahafu

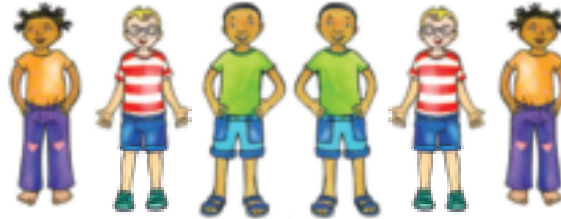
Ithemu 3



Tlola isiphambano phezu kwehafu yabantwana bese utlola ipendulo.



Ihafu yaka - 4 _____



Ihafu yaka - 6 _____



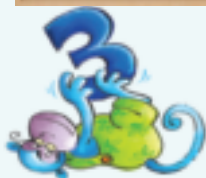
Ihafu yaka - 2 _____



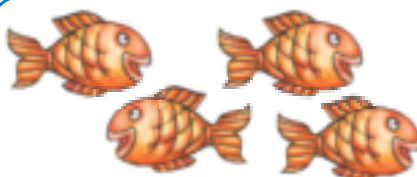
Ihafu yaka - 8 _____



Tlola isiphambano phezu kwehafu bese utlola ipendulo.

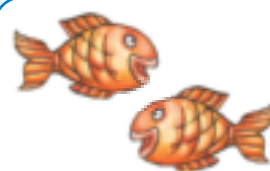
Ihafu yaka - 2 = Ihafu yaka - 8 = Ihafu yaka - 4 = Ihafu yaka - 10 = Ihafu yaka - 6 = 

Kuneenhlambi ezingaki?





Ihafu yeenhlambi ilingana?





Bala amacaphazi bese uwahafule.

	2	ihafu →		1
	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



Teacher:
Sign:
Date:



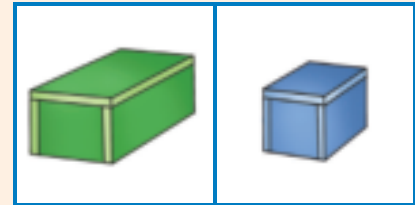
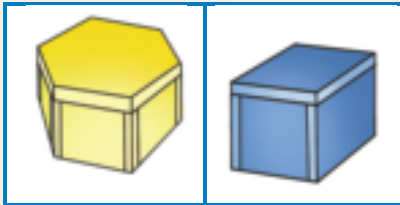


Izinto ezima - 3D

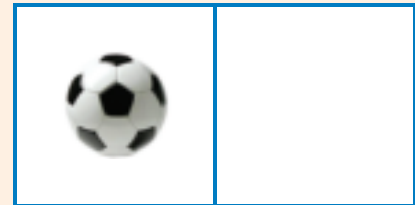
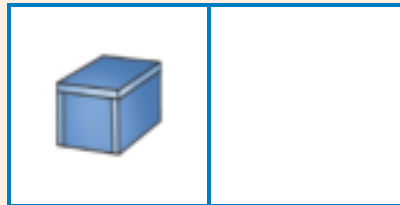
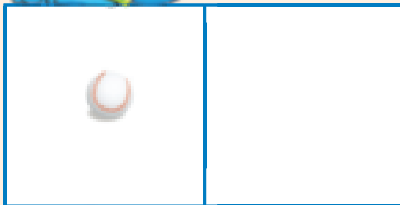
Ithemu 3



Thika into encani khulu.

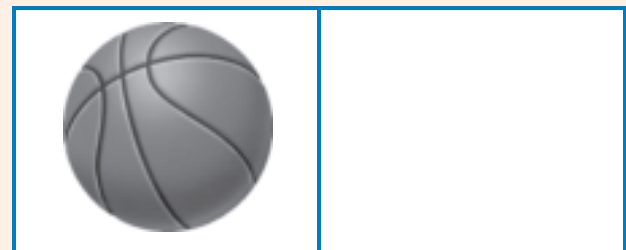
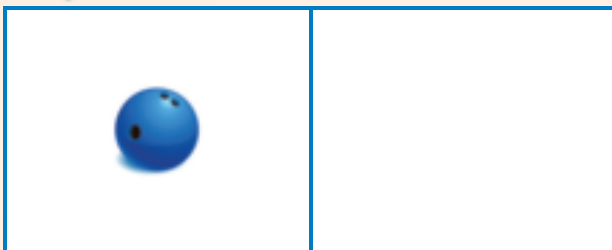


Gwala into ekulu ngesandleni sokudla sesithombe esinye nesinye.



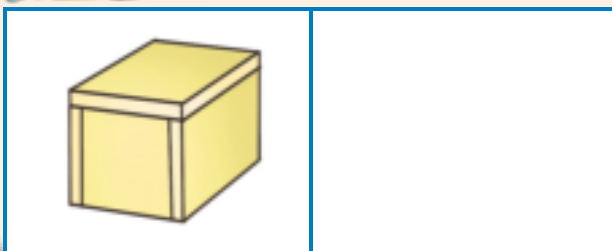
Gwala ibholo ekulu khulu bese ulandelise ngebholo ehlaza sasibhakabhaka.

Gwala ibholo encani kubeyibholo esamlotha.



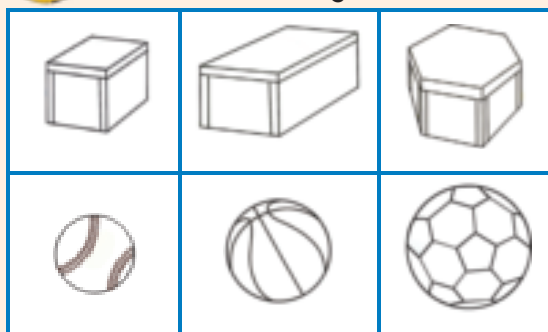
Gwala ibhoksi elincani kunebhoksi elisarulani.

Gwala ibhoksi elikhulu kunebhoksi elihlaza satjani.

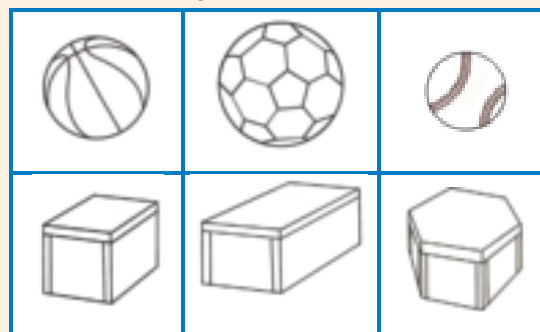




Khalara ibhoksi elincani khulu
ngombala ohlaza sasibhakabhaka bese
elincani khulu ngombala osarulani.



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 ekungiyiyo.



ukugedeka

ukutjhelela



ukugedeka

ukutjhelela



ukugedeka

ukutjhelela



ukugedeka

ukutjhelela



Ingabe okulandelako kungenzeka?
Khalara ipendulo enembako.



iye

awa



iye

awa



iye

awa



Hlela izinto ezilandelako ngokuthi uzigwale ngaphakathi kwebhlogo elinembako.

	Iimbholo	Amabhoksi
--	----------	-----------



Hlela izinto ezilandelako ukuya ngobukhulu bazo bewuzigwale.

	Iimbholo ezincani	Amabhoksi amancani
	Iimbholo ezikulu	Amabhoksi amakhulu



Teacher:
Sign:
Date:



89



Ilanga:

Amaphetheni wejiyomethri

Ukubuyekeza:

Gwala okulandelako:

Isiyingi

Isikwere

Uncane/irekthengela



Gedelela amaphetheni.



50

0

1

2

3

4

5

6

7

8

9

10



Yenza umgwalo uqedelele iphetheni.



Gwala amaphetheni ekungewakho.

--



Namathisela iinthombe ukwenza iphetheni ekungeyakho.

--



Qedelela iphetheni elandelako:

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

Teacher:
Sign:
Date:



90



Ilanga:

Amabuthhelelo wangakubili bekufike e-15

Ithemu 3



Tlola ibizo lenomboro ejangelwe litshwayo.

2

kubili



Phendula imibuzo.



Ubona amaphengwini amangaki?

Ubona iimpara zeenyawo ezingaki?

Tlola ipendulo yakho njengenomboro.



Phendula imibuzo.



Ubona iincwadi ezingaki?

Ungenza amabuthhelelo wangakubili amangaki?

Tlola ipendulo njengomutjho weenomboro.



Tlola ibizo lenomboro ejangelwe litshwayo.

4



Bala iimpiko, bese uqedelela ngependulo.



$$2 + 2 =$$



$$2 + 2 + 2 =$$



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

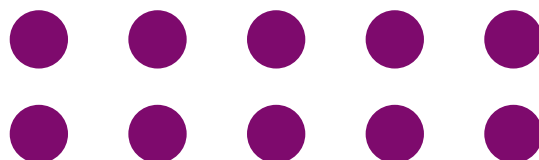


Gwala iiyingi undulungele okulandelako ukubeka:

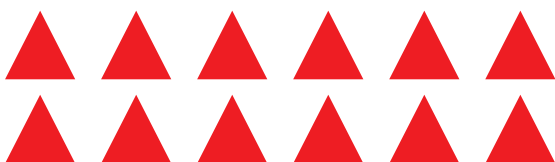
Amabuthhelelo ama-4 wangaku-2



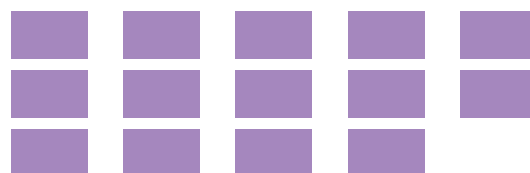
Amabuthhelelo ama-5 wangaku-2



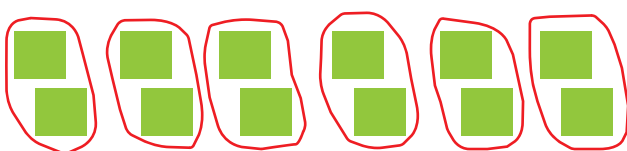
Amabuthhelelo asi-6 wangaku-2

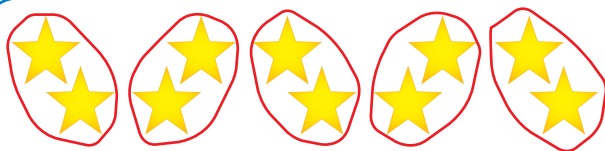


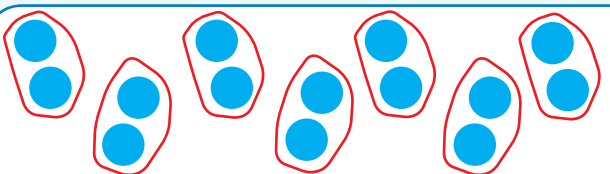
Amabuthhelelo ali-7 wangaku-2

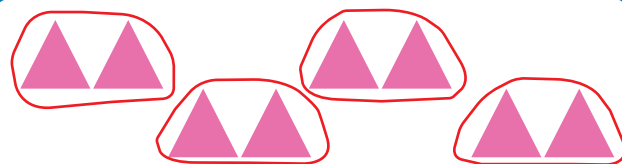


Tlola umutjho weenomboro walokhu okulandelako:











Ungabeka amabuthhelelo wangakubili amangaki?

i-13 naku-1 kuzokwenza	amabuthhelelo
i-11 naku-1 kuzokwenza	amabuthhelelo
i-9 naku-1 kuzokwenza	amabuthhelelo
i-7 naku-1 kuzokwenza	amabuthhelelo

i-12 naku-1 kuzokwenza	amabuthhelelo
Oku-1 naku-1 kuzokwenza	amabuthhelelo
Oku-1 noku-1 kuzokwenza	amabuthhelelo
i-10 ne-0 kuzokwenza	amabuthhelelo

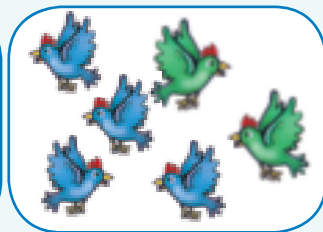
Teacher:
Sign:
Date:



Ukuhlanganisa okubuyelelwe kabili bekufike e-15



Ubona imilenze emingaki?



Ubale njani?



Gwala amajamo ukutjengisa okulandelako:

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



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

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

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



Tlola umutjho weenomboro walokhu okulandelako:

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



Ndulungela bewubale kobana mabuthhelelo amangaki wangakubili ongawabeka ekaradeni ngalinye.

♥ ♥

♥ ♥

♥ ♥

♥

♥ ♥

♥ ♥

♥ ♥

♥ ♥

♥ ♥



Qedelela iphetheni yeenomboro ukwenza amabuthhelelo amabili wangakubili.

I	2	3	4	5	6	7	8	9	10
II	12	13	14	15					



Teacher: _____

Sign: _____

Date: _____



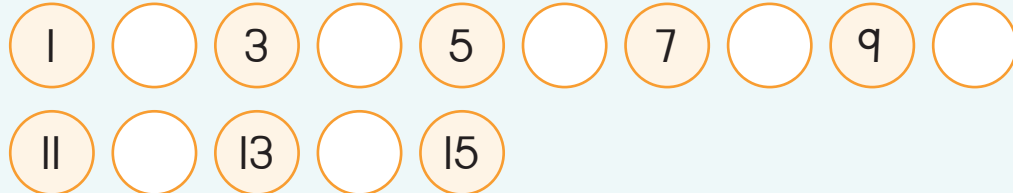


Ilanga:

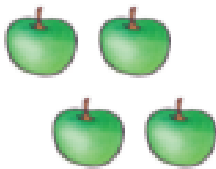
Ngakubili bekufike e-15



Tlola inomboro etlhayelako.

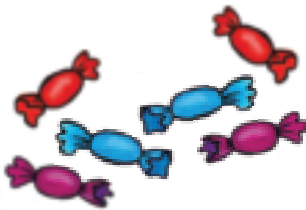


Beka amabuthhelelo wangakubili.
Ndulungela elinye nelinye ibuthhelelo langakubili.



Kunamabuthhelelo wama-apula
amangaki?

Umntwana ngamunye
uzokufunyana ama-apula
amangaki?



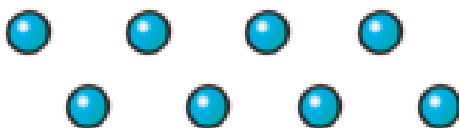
Kunamabuthhelelo wamaswidi
amangaki?

Umntwana ngamunye
uzokufunyana amaswidi
amangaki?



Kunamabuthhelelo
wamamabula amangaki?

Umntwana ngamunye
uzokufunyana
amamabula amangaki?



Kunamabuthhelelo
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.

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

--	--

--	--

--	--



Balisisa okulandelako:

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



Ndulungela amabuthhelelo wangaku-2 emudeni ngamunye.



Teacher:
Sign:
Date:





Amaphetheni wangaku - 2 ukufika ema-50



Sika iinomboro ezitlhayelako kiboSika besi-2 bese uzinamathisela enambalayinini. Ngemva kwalapho ugedelele namawulawubhu.



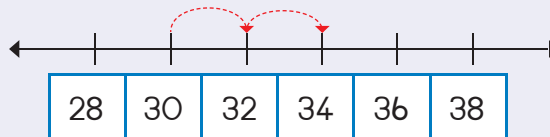
Qedelela iphetheni ngokuthi ukhalare iinomboro ekungizo.

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

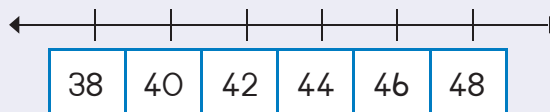


Gwala amawulawubhu ukutjengisa okulandelako:

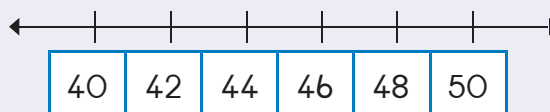
30, 32, 34



40, 42, 44



46, 48, 50





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



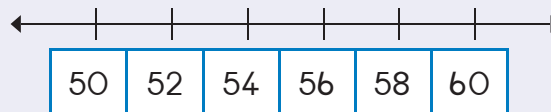
Qedelela iphetheni ngokuthi ukhalare iinomboro ekungizo.

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

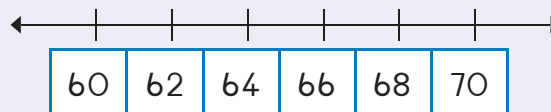


Gwala amawulawubhu ukutjengisa okulandelako:

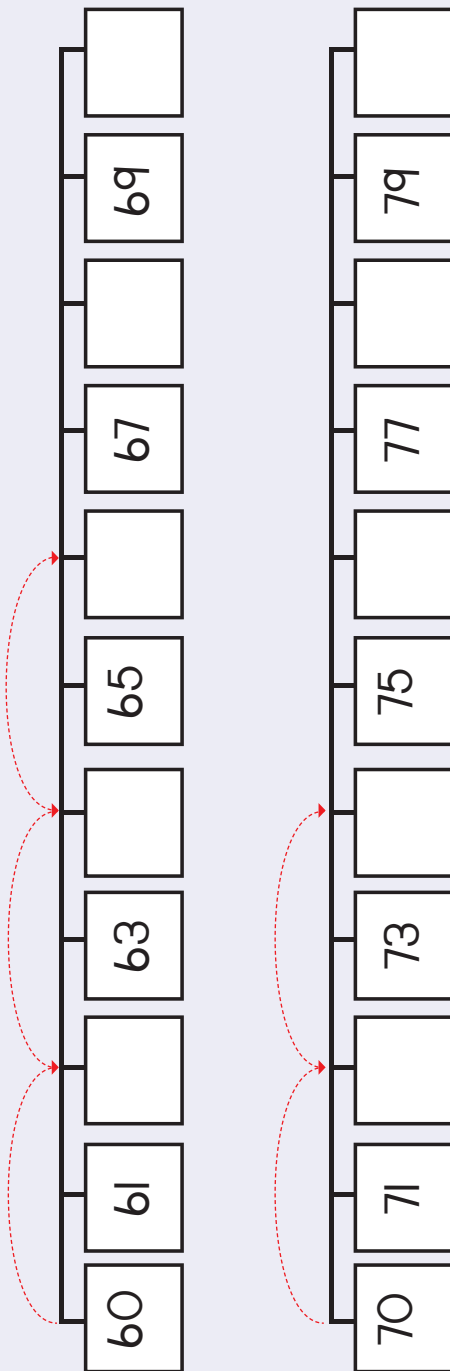
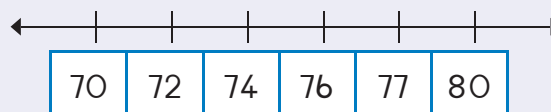
54, 56, 58



64, 66, 68



72, 74, 76



Teacher: _____
Sign: _____
Date: _____



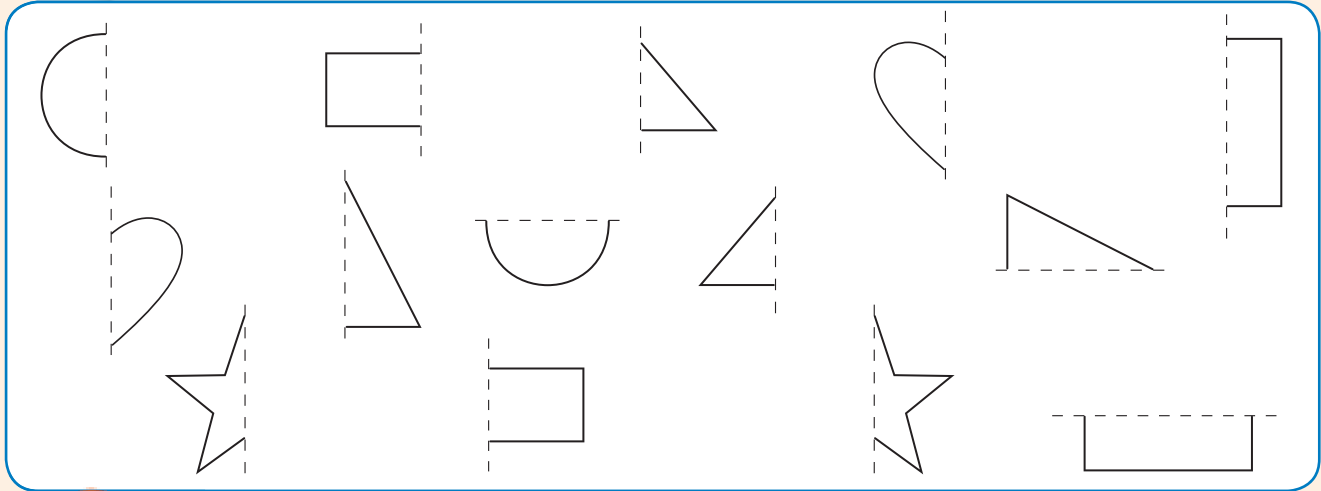


Ukubandeka - bulingana/Isimethri

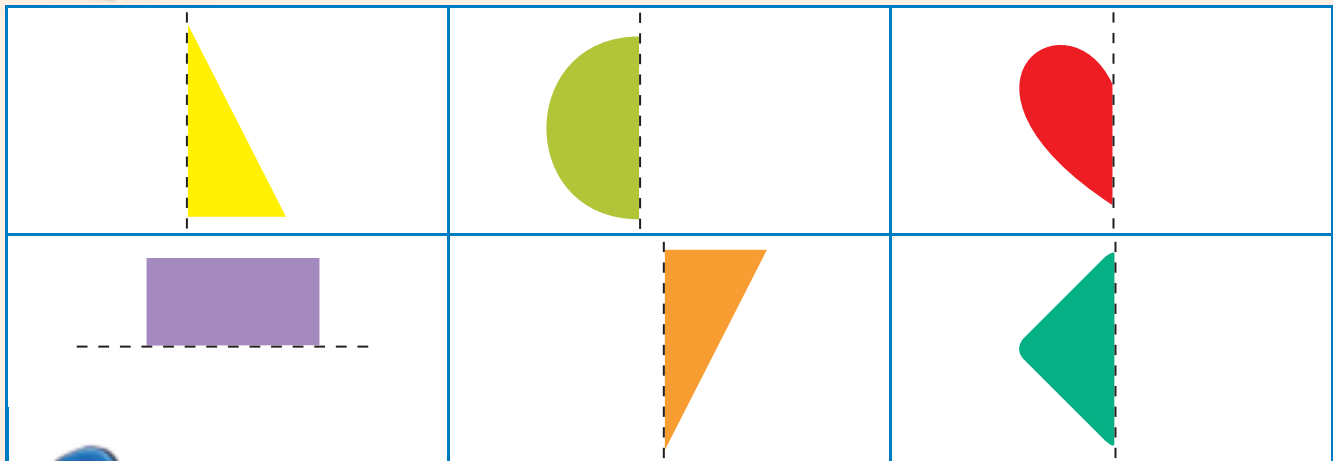
Ithemu 3



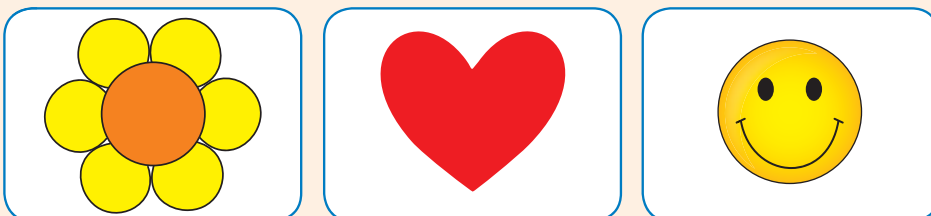
Khalara amahlangothi amabili alinganako wamajamo azokwenza ijamo elilodwa.



Gwala enye ihafu bese uyayikhalara.

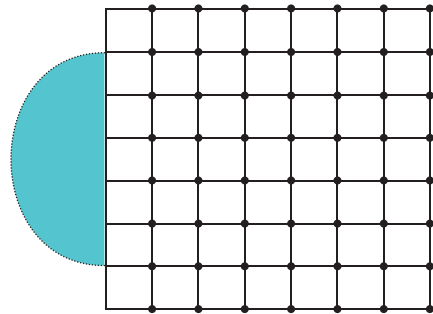
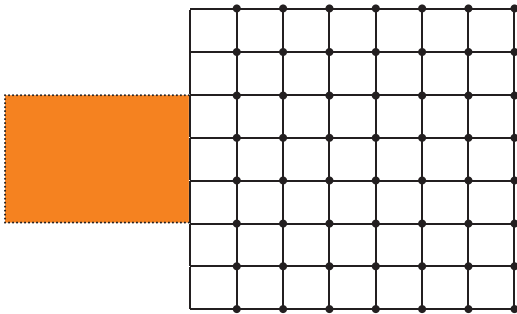
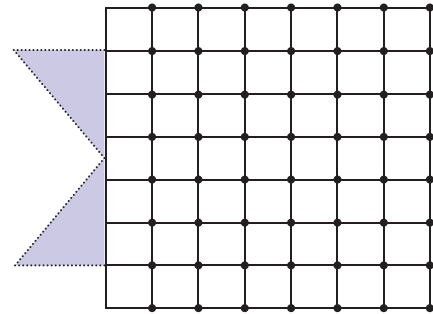
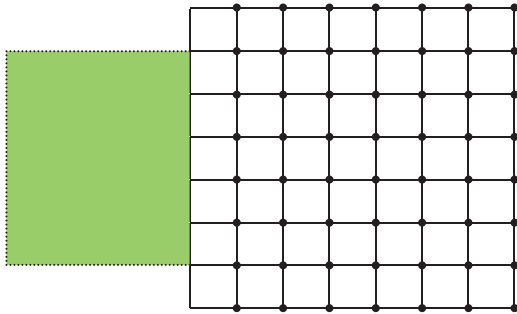
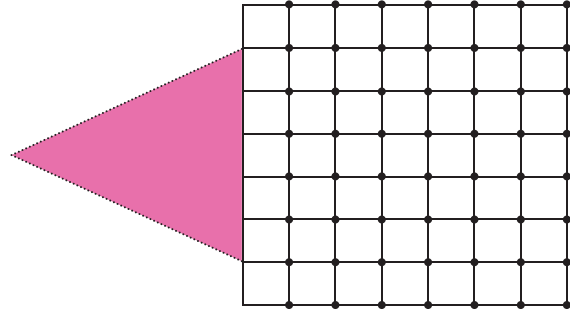
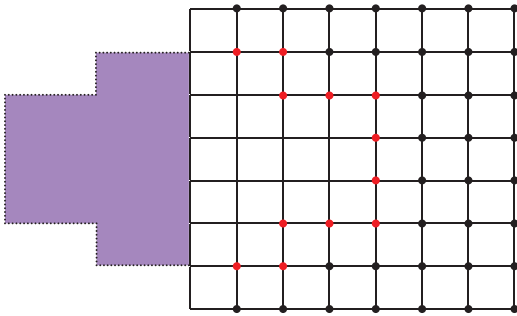


Gwala umuda ukwehlukanisa iinthombe ezilandelako zibe namahlangothi amabili azokubonakala afana patsi.

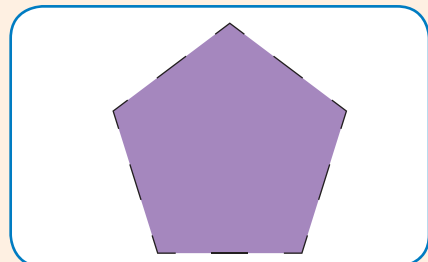
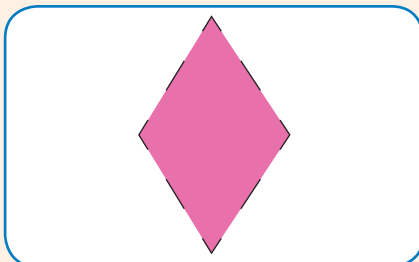
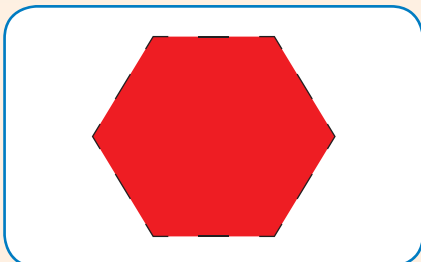




Gwala enye ihafu yejamo usebenzise ibhodo yegridi ukuze ikuhlahle.



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



Teacher:
Sign:
Date:

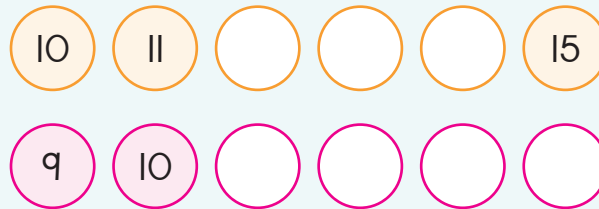


Iinomboro nobukhulu bedijidi

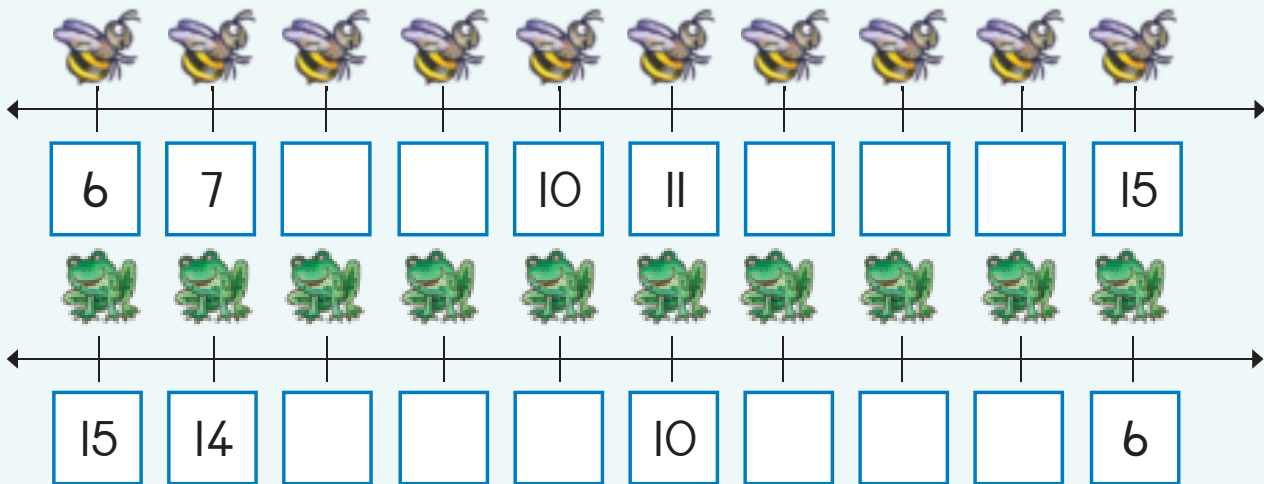
Ithemu 3



Ukutlola iinomboro ezitlhayelako.



Ukutlola iinomboro ezitlhayelako.



Tlola ipendulo.

$10 + 1 =$	11
$10 + 2 =$	
$10 + 5 =$	
$10 + 3 =$	

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



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



10 + 1 ngombala obovu



10 + 3 ngombala opinki



10 + 5 ngombala ohlaza sasibhakabhaka



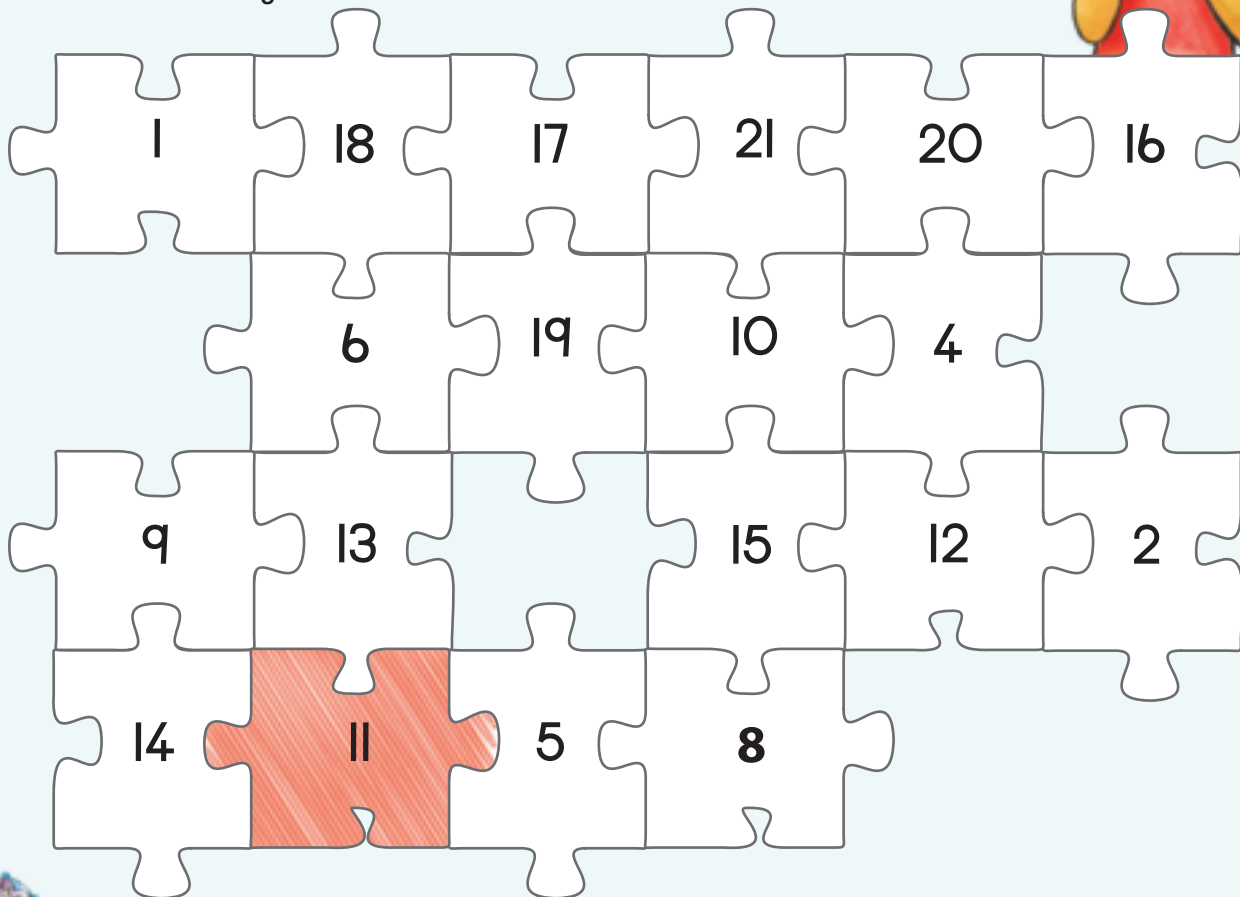
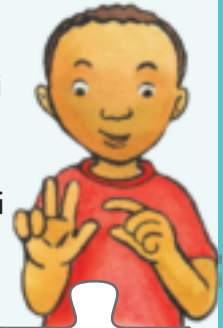
10 + 4 ngombala osarulani



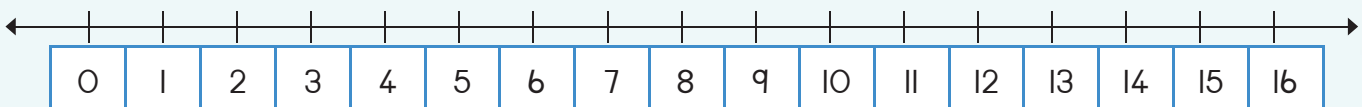
10 + 0 ngombala ohlaza satjani



10 + 2 ngombala o-orentji



Tjengisa itjhumi nakune enambalayinini.



12 13 14 15 16 17 18 19 20



96



Ubude

Ithemu 3



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

Ububanzi betafula buthatha izandla ezingaki?

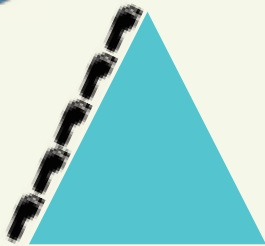


Ubude zizandla _____.

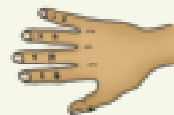
Ububanzi zizandla _____.



Magadango amangaki weenyawo enza ihlangothi?



Qedelela ngependulo.

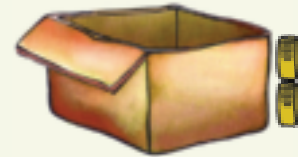
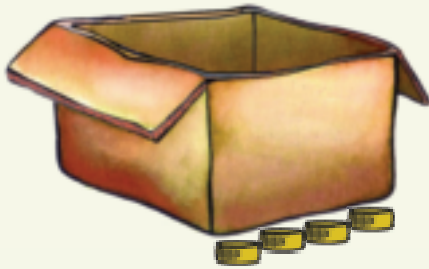


Ubude zizandla _____.





Yini ubude kanye nobubanzi bebhoksi?

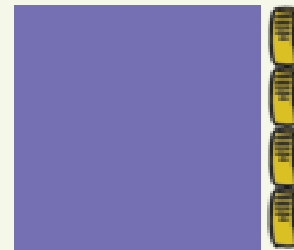
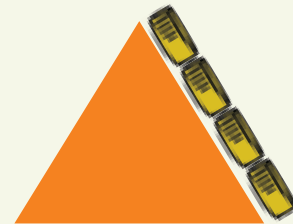


Ubude bulingana neemvalo
zamabhodlelo _____.

Ububanzi bulingana neemvalo
zamabhodlelo _____.



Ubude behlangothi bulingana neemvalo zamabhodlelo ezingaki?





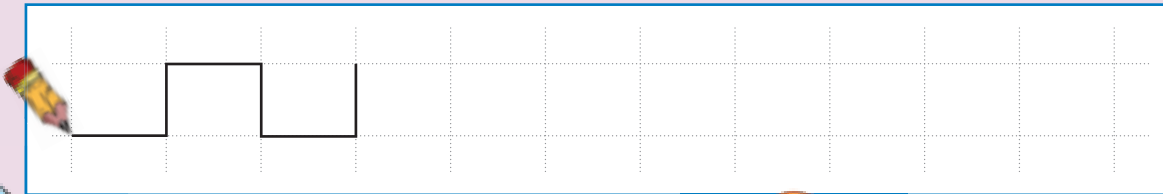
Inomboro ye -16

Ukubuyekeza:

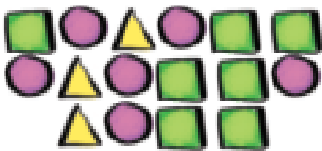
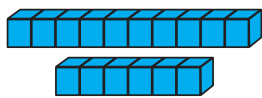
Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

7

khomba



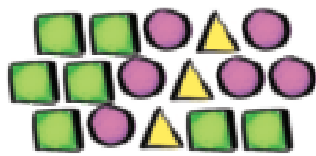
Madanisa iinthombe.



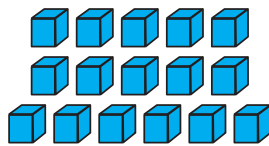
10

6

16



16



10

6



Gadangisa iinomboro.

16 16 16 16

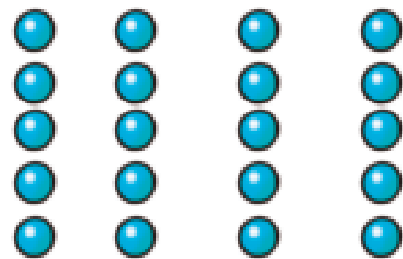
itjhumini nesithandathu

16 16 16 16

itjhumini nesithandathu



Ndulungela imincamo eli-16 kwaphela.



Kusele imincamo emingaki? ____



0

1

2

3

4

5

6

7

8

9

10



Gwala izinto ezili - 16.

Kwanje zigwale
ngendlela eyahlukileko.



Qedelela ngenomboro
etlhayelako.

2	3	4
19		21
17		19



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

	16	
		itjhumini nesithandathu



Iyini inomboro encani ngakunye
ku-16? _____

Iyini inomboro ekulu ngakunye
ku-16? _____



Iyini enomboro encani ngakunye etjhumini nesithandathu?

Iyini inomboro encani ngakubili etjhumini nasithandathu?

Iyini inomboro ekului ngakunye etjhumini nasithandathu?

Iyini inomboro ekulu ngakubili etjhumini nasithandathu?



Tlola inomboro ezitlhayelako.

10	9		7	6		4	3		1



Teacher:
Sign:
Date:



12 13 14 15 16 17 18 19 20



Inomboro ye -17

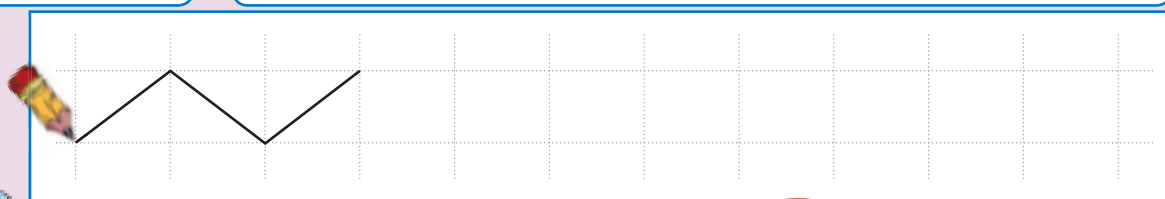
Ithemu 4

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

8

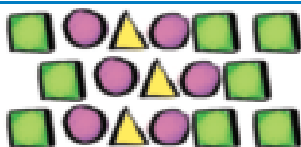
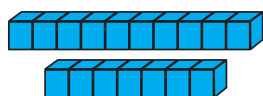
bunane



Madanisa iinthombe.



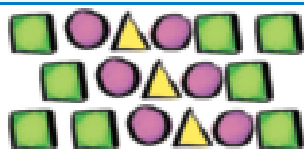
Gadangisa iinomboro.



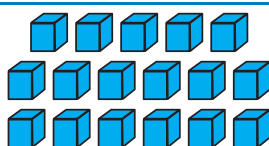
10

7

17



17



10

7

17 17 17 17

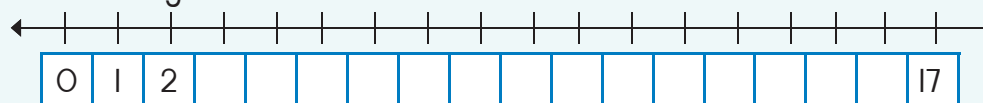
itjhuminekhomba

17 17 17 17

itjhuminekhomba



Qedelela inambalayini.



0

1

2

3

4

5

6

7

8

9

10



Gwala izinto ezili - 17.

Kwanje zigwale
ngendlela eyahlukileko.



Ngijiphi inomboro
eza ngemva?

16	17	
24	25	
17	18	



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

	17	
		itjhumini nekhomba



Iyini inomboro encani ngakunye etjhumini nakhomba?

Iyini inomboro encani ngakubili etjhumini nakhomba?

Iyini inomboro ekulu ngakunye etjhumini nakhomba?

Iyini inomboro ekulu ngakubili etjhumini nakhomba?



Qedelela ngenomboro etlhayelako.

Lezi ziinomboro ezibizwa
ngalezo ezingalingalinganiko.

	2		4		6		8		10
	12		14		16		18		20



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20

qq



Ilanga:

Inomboro ye -18

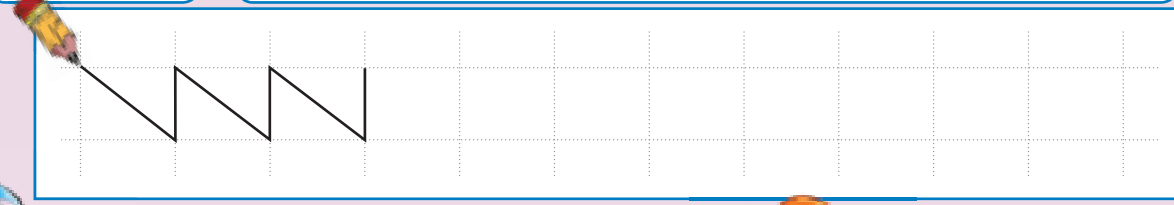
Ithemu 4

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

q

ithoba



Madanisa iinthombe.



Gadangisa inomboro.

10 + 8 = 18

18

18

10 + 8

18 18 18 18

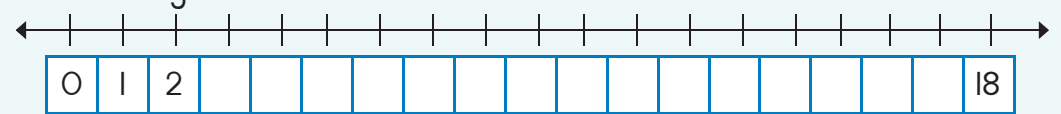
itjhumini nobunane

18 18 18 18

itjhumini nobunane



Qedelela inambalayini.





Gwala izinto ezili - 18.

Kwanje zigwale
ngendlela eyahlukileko.



Ngijiphi inomboro eza
ngemva kwale?

8	9	
33	34	
0	1	



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

	18	
		itjhumini nobunane



Iyini inomboro encani ngakunye etjhumini nobunane?

Iyini inomboro ekulu ngakubili etjhumini nabunane?

Iyini inomboro ekulu ngakunye etjhumini nobunane?

Iyini inomboro ekulu ngakubili etjhumini nobunane?



Qedelela ngenomboro etlhayelako.

1	2		4	5	6	7		9	10
11		13	14	15		17	18		20



Teacher:
Sign:
Date:



12 13 14 15 16 17 18 19 20



100



Ilanga:

Inomboro ye -19

Ithemu 4

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

10

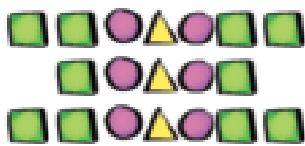
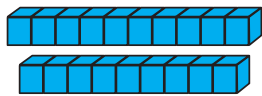
itjhumu



Madanisa iinthombe.

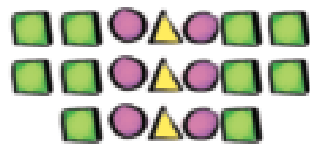


Gadangisa inomboro.

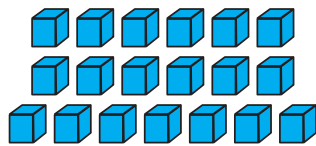


10
9

19



19



10
9

19 19 19 19

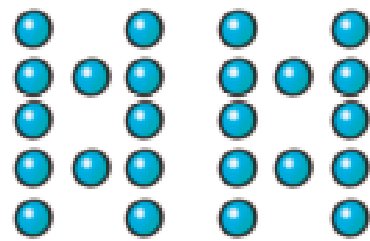
itjhumu nethoba

19 19 19 19

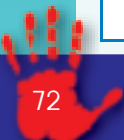
itjhumu nethoba



Ndulungela imincamo eli-19 kwaphela.



Kusele imincamo emingaki? ____



0 1 2 3 4 5 6 7 8 9 10



Gwala izinto ezili-19.

Kwanje zigwale
ngendlela eyahlukileko.



Ngijiphi inomboro
eza hlangana?

14		16
35		37
8		10



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

 	19	
 		
	 	itjhumini nethoba
		 



Iyini inomboro encani ngakunye etjhumini nethoba?

Iyini inomboro encani ngakubili etjhumini nethoba?

Iyini inomboro ekulu ngakunye etjhumini nethoba?

Iyini inomboro ekulu ngakubili etjhumini nethoba?



Qedelela ngenomboro etlhayelako.

Lezi ziinomboro ezaziwa
ngezilingalinganako.

I		3		5		7		9	
II		13		15		17		19	

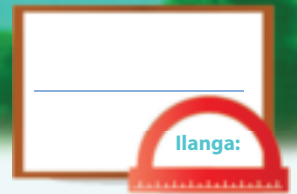
Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



IOI



Inomboro yama - 20

Ithemu 4



Madanisa iinthombe.

10 10
20

20
10 10



Gadangisa inomboro.

20 20 20 20

amatjhumini amabili

20 20 20 20

amatjhumini amabili



Ndulungela imincamo ema-20 kwaphela.

	Kusele imincamo emingaki? ____
--	--------------------------------

	Kusele imincamo emingaki? ____
--	--------------------------------



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

	20	amatjhumini amabili
		amatjhumini amabili
20		



Iyini inomboro encani ngakunye amatjhumini amabili? ____

Iyini inomboro ekulu ngakunye amatjhumini amabili? ____





Hlanganisa
inomboro
nebizo.

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

- kune
- likhomba
- lithoba
- kuthathu
- litjumi nanye
- itjumi nambili
- kunye
- kubili
- bunane
- iqanda
- kuhlanu
- sithandathu
- itjumi nantathu
- itjumi
- itjumi nane



Qedelela ngenomboro
etlhayelako.

Ngaphambili		Ngemva
16	17	
	12	
	14	
	9	10
	6	



Sebenzisa ukuncani nanyana
kukhulu ukuqedelela okulandelako:

u-35 _____ kunama-38
u-79 _____ kunama-65



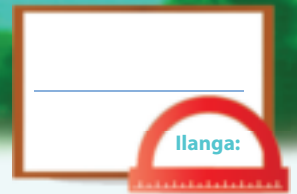
Teacher:

Sign:

Date:



11 12 13 14 15 16 17 18 19 20



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.

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



Tlola umutjho weenomboro walokhu okulandelako:

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





Tlola umutjho weenomboro wokhunye nokhunye kwalokhu okulandelako:



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



Qedelela ngeenomboro ezilandelako:

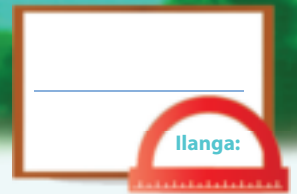
	+	14	=	17
9	+		=	20
12	+	8	=	
15	+		=	20
	+	6	=	13
14	+	3	=	0



Teacher:
Sign:
Date:



12 13 14 15 16 17 18 19 20

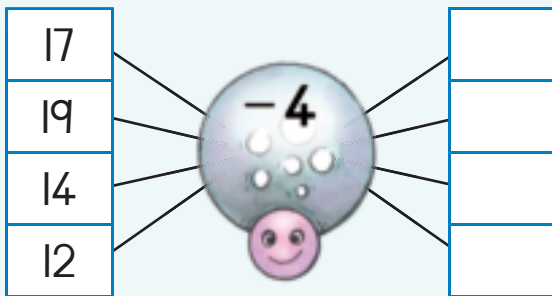


Ukukhupha

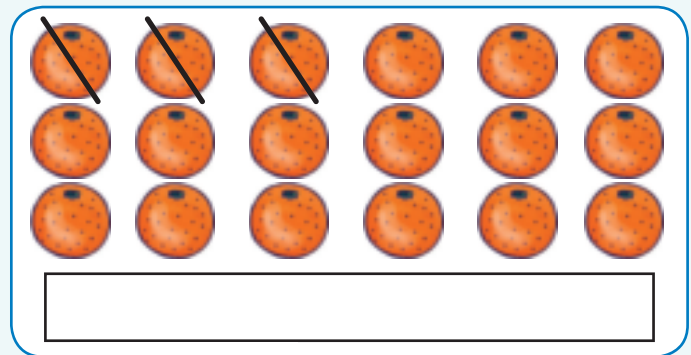
Ithemu 4



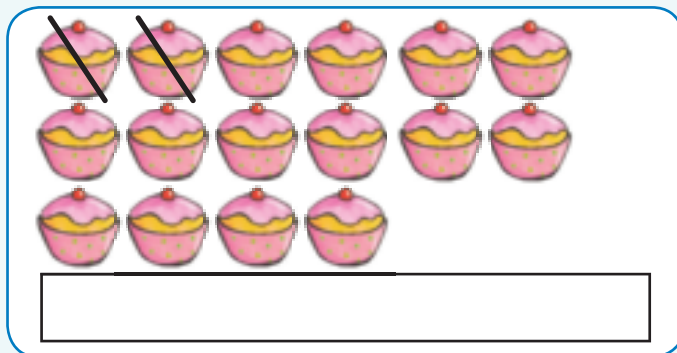
Balisisa.



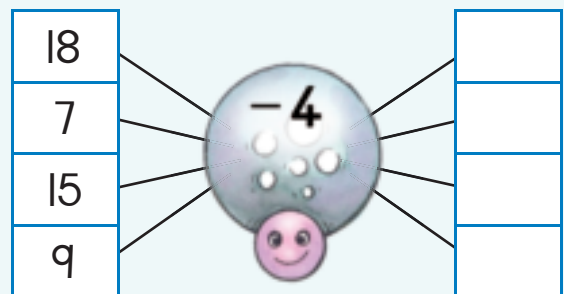
Tlola umutjho weenomboro.



Tlola umutjho weenomboro.



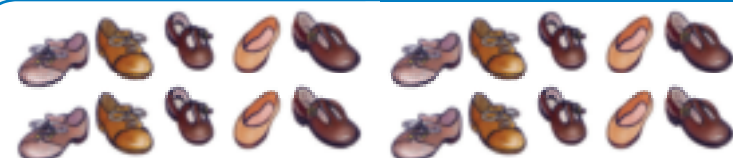
Balisisa.



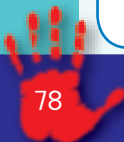
Qedelela iimbalo ngokuthi ugwale imigwalo.



$$16 - \square = 11$$



$$10 + \square = \square$$





Khupha amabhlogo.

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



Balisisa okulandelako:

$11 + 7 = \square$	$11 + 7 = \square$
$11 + 4 + \square = \square$	$11 + 5 + \square = \square$
$19 - 7 = \square$	$17 - 9 = \square$
$19 - (5 + \square) = \square$	$17 - (7 + \square) = \square$



Balisisa okulandelako:

u-5 nakabuyelelwe kabili	$\square$	u-3 nakabuyelelwe kabili	$\square$	u-4 nakabuyelelwe kabili	$\square$
u-7 nakabuyelelwe kabili	$\square$	u-2 nakabuyelelwe kabili	$\square$	u-8 nakabuyelelwe kabili	$\square$
i-10 nalibuyelelwe kabili	$\square$	u-9 nakabuyelelwe kabili	$\square$	u-1 nakabuyelelwe kabili	$\square$

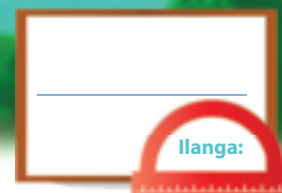


Phendula okulandelako:

$9 + 9 - 1 =$		nanyana	u-9 nakabuyelelwe kabili - 1 =	
		nanyana	u-5 nakabuyelelwe kabili - 1 =	
$4 + 4 - 1 =$		nanyana		

Teacher:
Sign:
Date:





Ukuhlanganisa nokukhupha



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

$$3 + \square = 8$$

$$4 + \square = \square$$

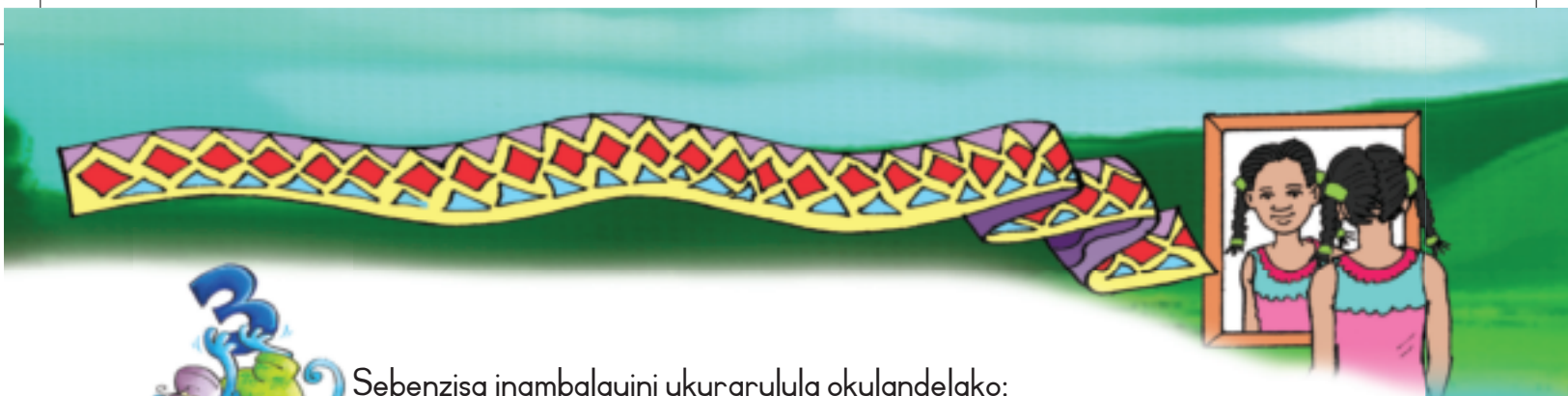

Rarulula okulandelako.
Ungagwala imgwalo ukuze ikusize.



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

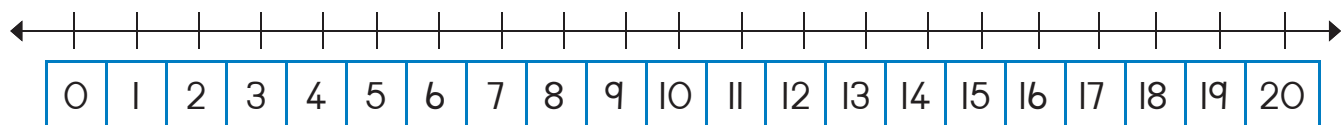
UMandla unamakhrayoni amade ama-5. U-Anne unamakhrayoni amade abu-8.
Ngubani onamakhrayoni ambalwa?



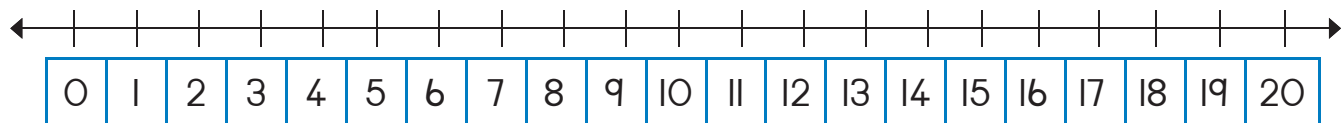


Sebenzisa inambalayini ukurarulula okulandelako:

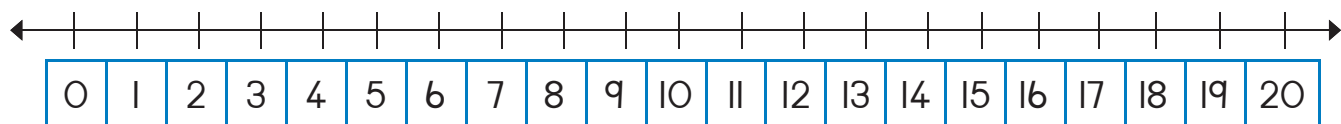
UThandi unamamabula asi-6 ahlaza satjani nali-9 ahlaza sasibhakabhaka. UThandi unamamabula amangaki sele awoke?



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

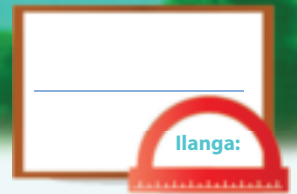
Ndulungela inomboro ekulu ngaku-2 kunama-76.

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



Teacher:
Sign:
Date:





Inomboro ezijayelekileko

Ithemu 4



Ngubani ofike kokuthoma emgijimweni?
Tlola iindawo (ukuya ngomgijimo) ngenzasi kwabo.

uSipho



uLerato



2

uJohn



3

uPeter



u-Ann





Bagwale
kuphodihamu.

Isiliva

Igolide

Ibronzi

Ngubani ofunye unongorwana wegolide?

Ngubani ofunye 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.

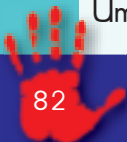
Umncamo wekhomba uhlaza satjani.

Umncamo wobunane usarulani.

Umncamo wethoba uhlaza sasibhakabhaka.

Umncamo wetjhumi ubovu.

Umucu wami womncamo.

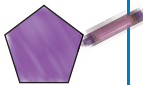




Qalisisa ukulamana kwamajamo.
Kopululela amajamo eendaweni ezifaneleko ngetheyibuleni.
Sewenzelwe isibonelo.

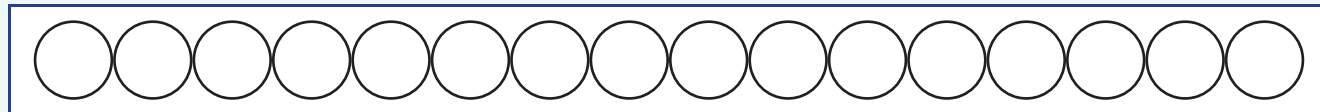


Ngiliphi ijamo:

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.

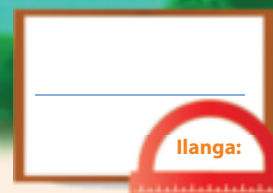


Teacher:

Sign:

Date:

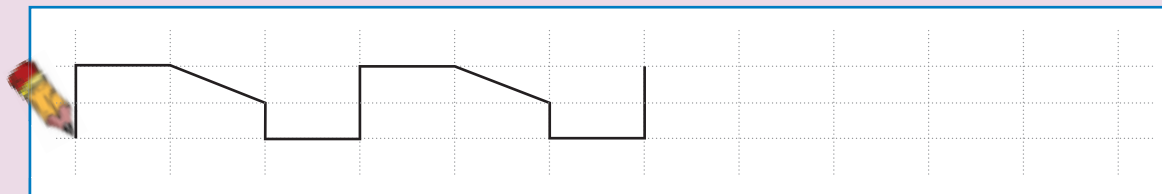




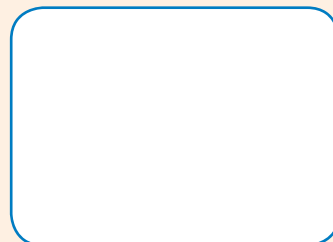
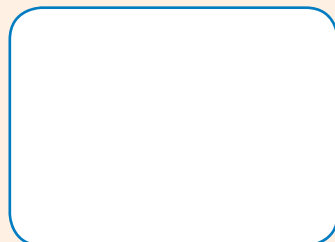
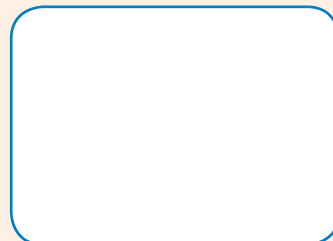
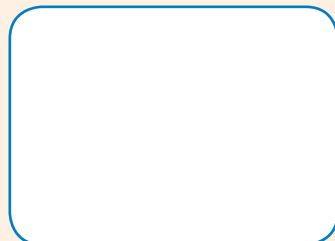
Izinto namajamo

Ukubuyekeza:

Ukubuyekeza: Madanisa amaphetheni.



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



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





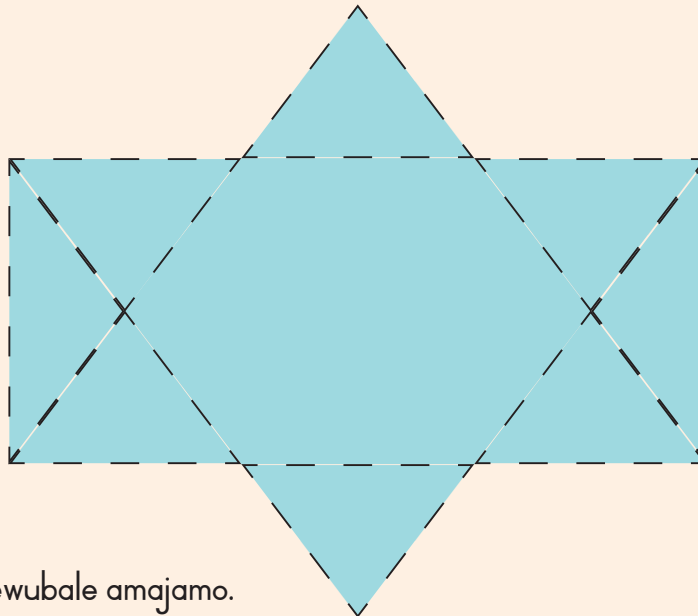
Gadangisa igama bese ugwala into.

Ibhoksi

Ibholo



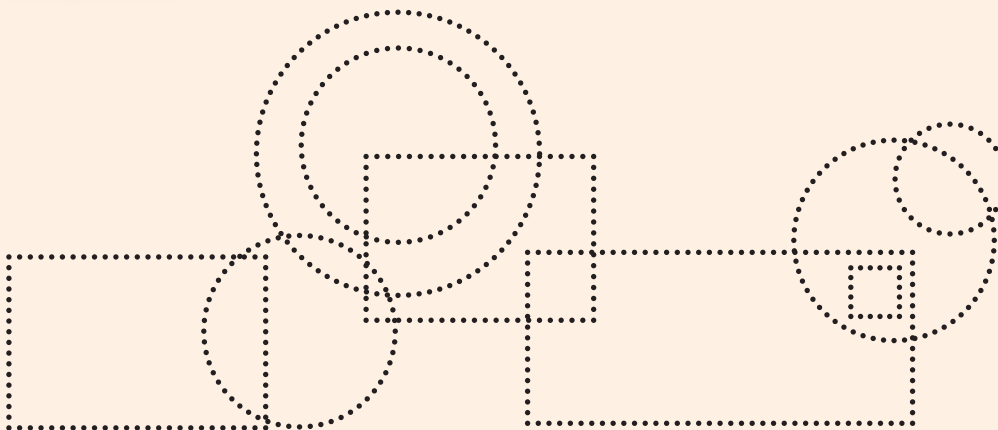
Bala aboncantathu bese utlola inomboro.



Ipendulo:



Gadangisa bewubale amajamo.



Iindulungu

Iinkwere



Teacher: _____
Sign: _____
Date: _____



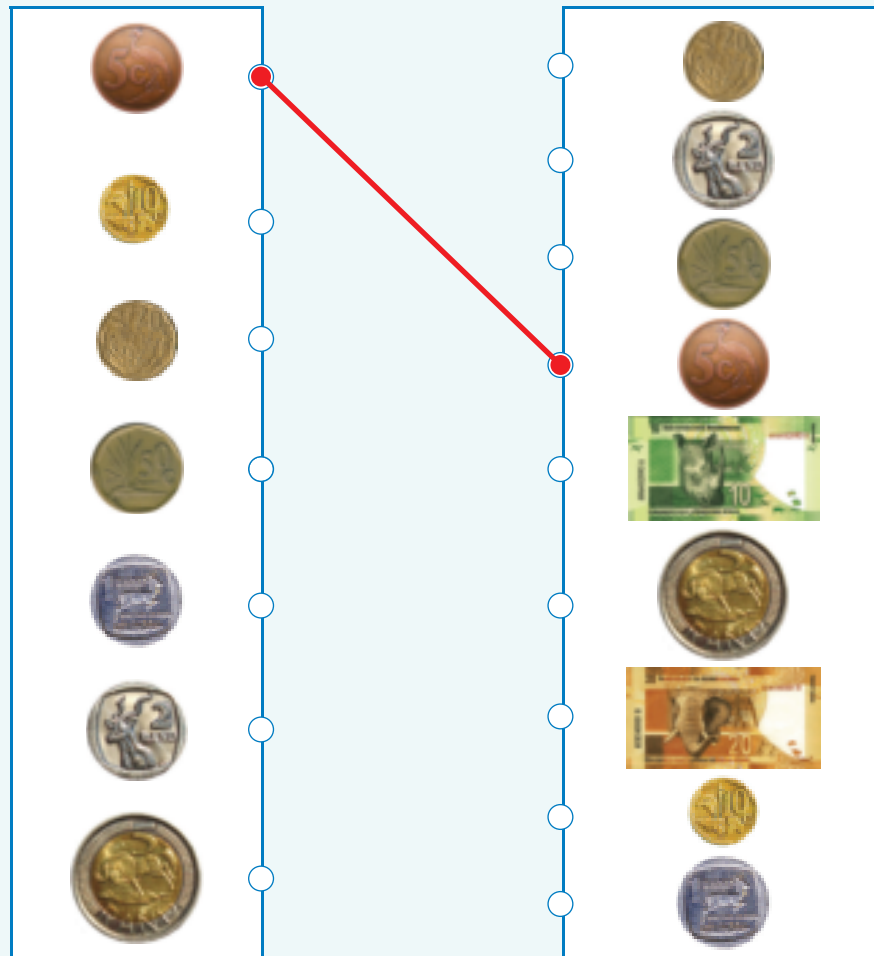


Imali

Ithemu 4



Ngiyiphi
imali yesimbi
ongayimadanisa
ndawonye?



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

R10	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
R20	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
R15	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐



Susa i-R2.



$$R12 - R2 = R10$$



Susa i-R5



$$R15 - R5 = R10$$



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

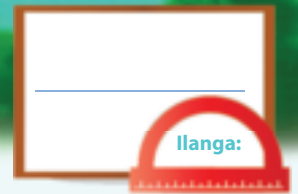


Ndulungela imali yesimbi
emudeni ngamunye
ongathenga ngayo okunengi.



Teacher: _____
Sign: _____
Date: _____



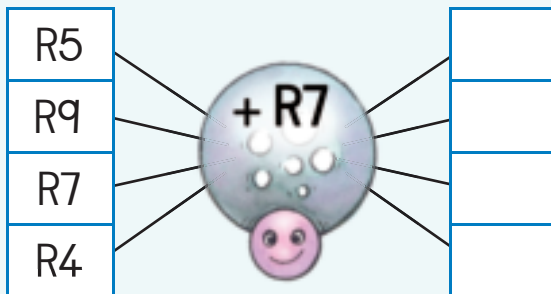


Ezinye iimbalo zemali

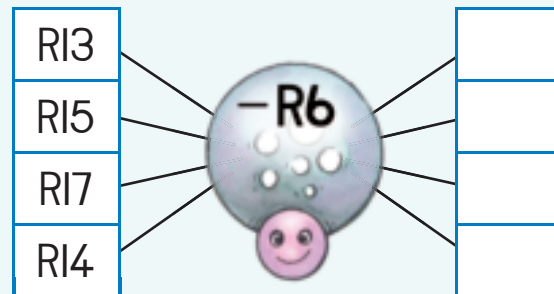
Ithemu 4



Balisisa.



Balisisa.



Qedelela ngependulo enembako.

$R10 + R1 =$	
$R10 + R2 =$	
$R10 + R3 =$	
$R10 + R4 =$	
$R10 + R5 =$	



Ngikuphi okunengi?
Ndulungela ipendulo yakho.

5c nanyana R5
20c nanyana R20
R1 nanyana 50c
R2 nanyana R1
20c nanyana 50c



Hlanganisa iinomboro ezivundlako nalezo ezehlako bese uqedelela iipendulo.

R2	R4	R9	=
R7	R3	R5	=
R6	R8	R1	=
=	=	=	=





Qalisisa isibonelo
bese uqedelela koke
okulandelako.

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



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

Uthini umbuzo?

Tlola iinomboro.

Tlola isibalo bese uyabalisisa.



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



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

Uthini umbuzo?

Tlola iinomboro.

Tlola isibalo bese uyabalisisa.

Uthini umbuzo?

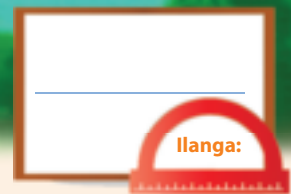
Tlola iinomboro.

Tlola isibalo bese uyabalisisa.



Teacher:
Sign:
Date:



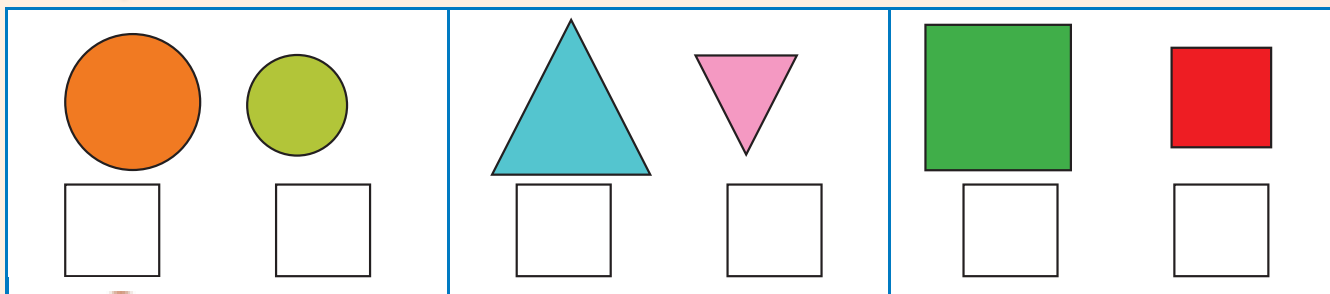


Amajamo ayi - 2D

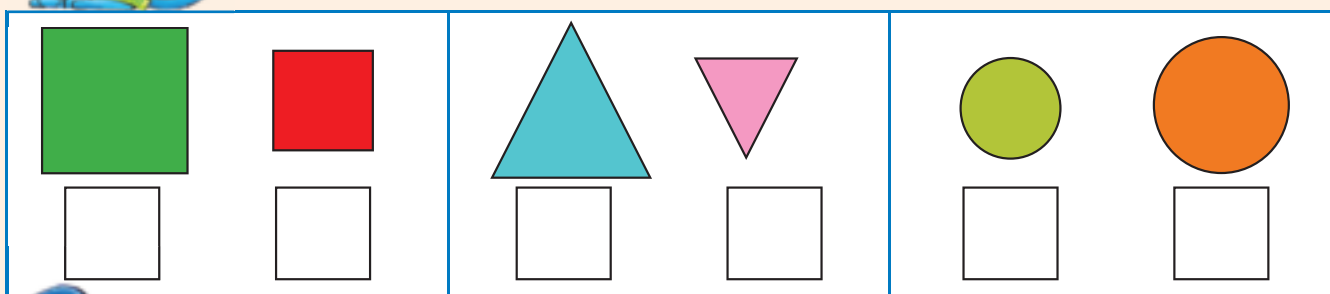
Ithemu 4



Thika ijamo elincani khulu ebhlogweni ngalinye.

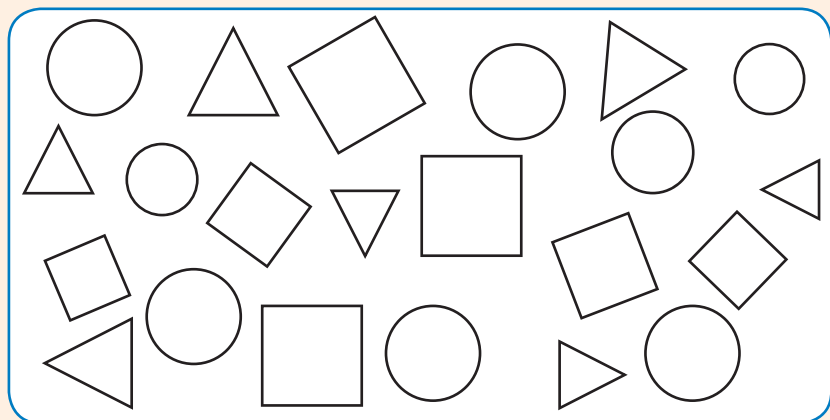


Thika ijamo elikhulu khulu ebhlogweni ngalinye.

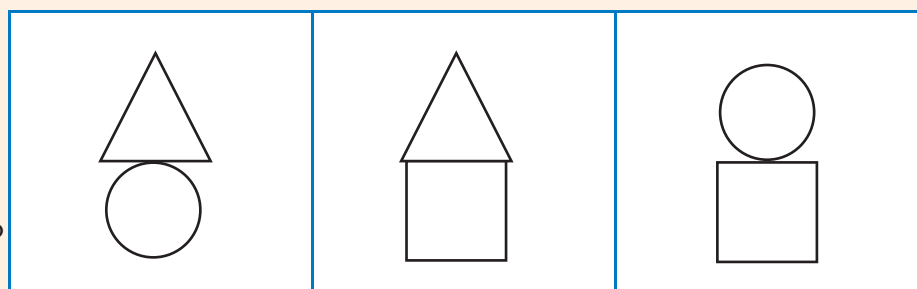


Khalara:

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

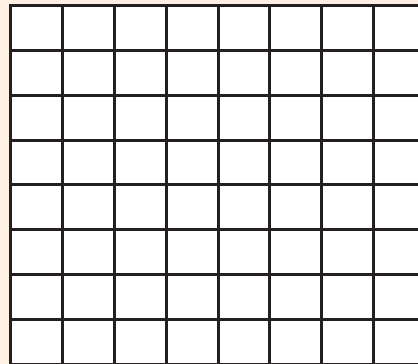
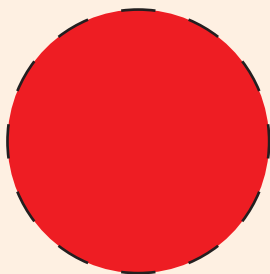
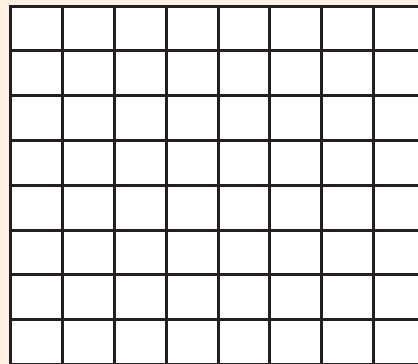
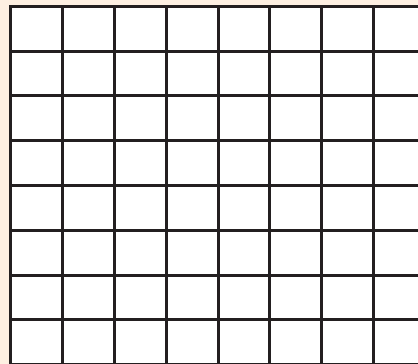
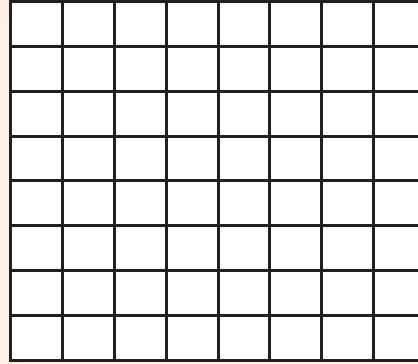
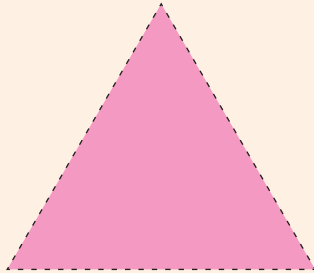


Gwala isithombe usebenzise amajamo. Sikuthomele esinye nesinye isithombe ngamajamo amabili.





Gwala amajamo ngaphakathi kwegridi.
Sebenzisa iinkwere ezincane zizokusiza.

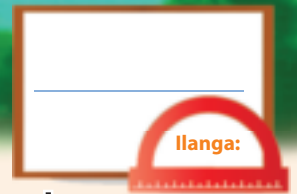


Teacher:

Sign:

Date:





Amajamo we - 2 - D – amahlangothi anqophileko nayindulungu



Gadangisa amajamo alandelako.

 aboncantathu	 iindulunga	 iinkwere
 iindulunga	 aboncantathu	 iinkwere



Thika ukutjho nangabe ijamo linamahlangothi anqophileko nanyana ayindulungu.

 Amahlangothi ayindulungu ☐ Amahlangothi anqophileko ☐	 Amahlangothi ayindulungu ☐ Amahlangothi anqophileko ☐	 Amahlangothi ayindulungu ☐ Amahlangothi anqophileko ☐
--	--	--

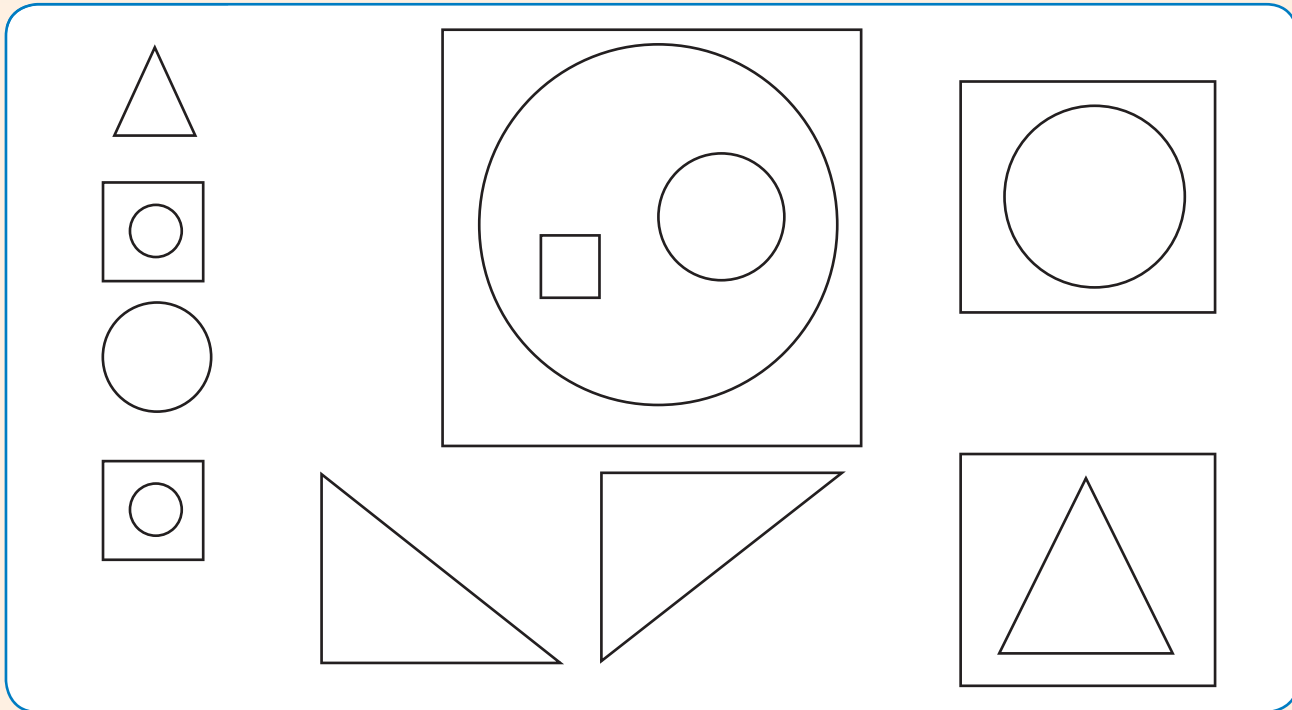


Gwala ijamo elinamahlangothi alandelako:

Amahlangothi anqophileko	Amahlangothi ayindulungu



Bala inani leeyingi, iinkwere naboncantathu.



Iindulungu

Iinkwere

Aboncantathu



Funyana isithombe sezinto kibomegazini ezine:

Amahlangothi ayindulungu

Amahlangothi anqophileko



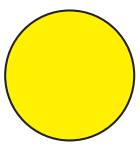
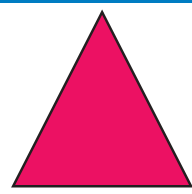
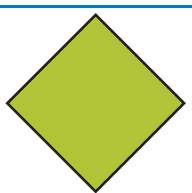
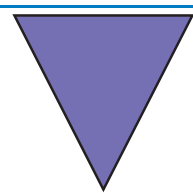
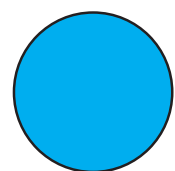
Teacher:
Sign:
Date:



Amanye amajamo we – 2-D

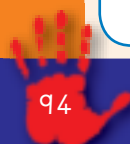


Yitjho amajamo alandelako:

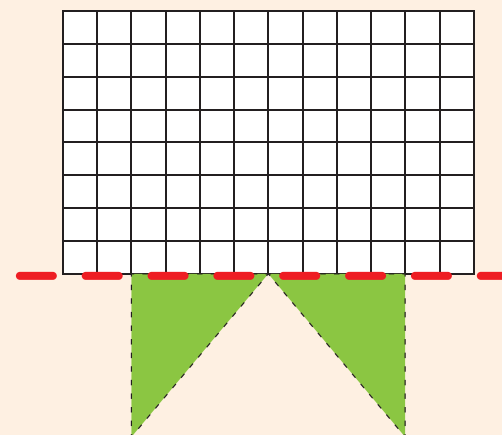
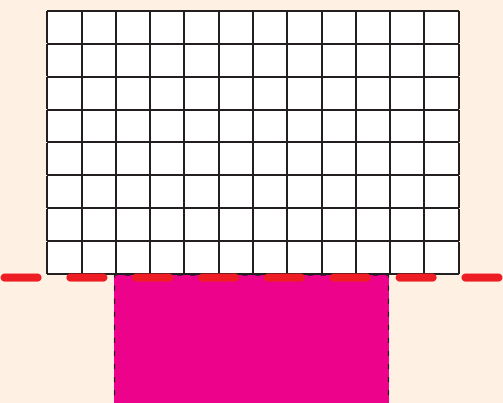
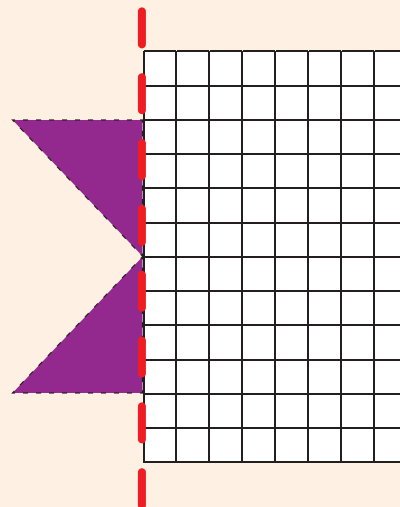
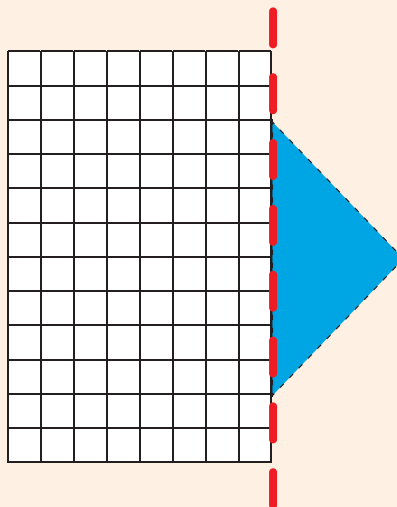
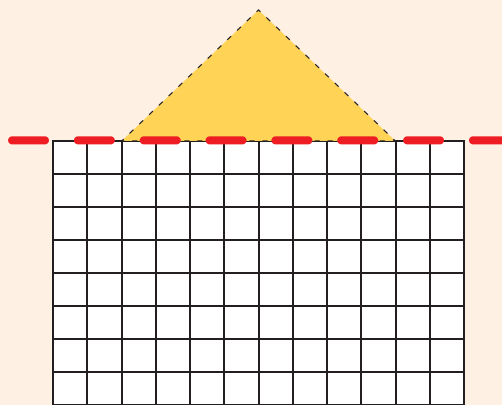
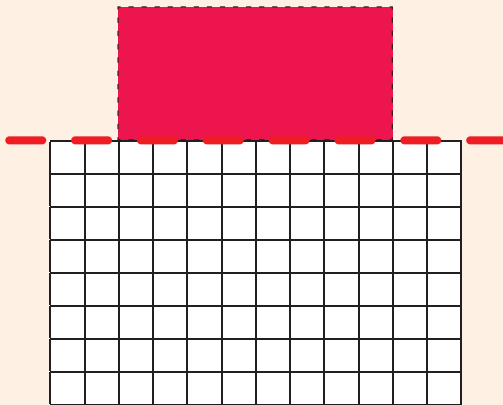


Zigwalele sakho isithombe usebenzise iiyingi, aboncantathu neenkwere kwaphela.





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



Zoke zinamahlangothi ayindulunga anqophileko .



Teacher:
Sign:
Date:





Amabuthhelelo wangakuhlanu bekufike ema - 20

Ithemu 4



Gwala iiyingi ukwaka amabuthhelelo wangakuhlanu.
Unamabuthhelelo wangakuhlanu amangaki?

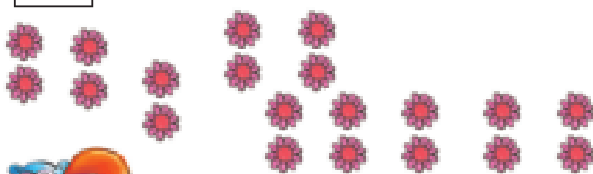
Ibuthhelelo eli- langaku - 5



amabuthhelelo wangaku - 5



amabuthhelelo wangaku - 5



amabuthhelelo wangaku - 5



Bala inani lemino. Tlola phasi ipendulo yakho.



$$5 + 5 + 5 =$$



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



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



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



0

1

2

3

4

5

6

7

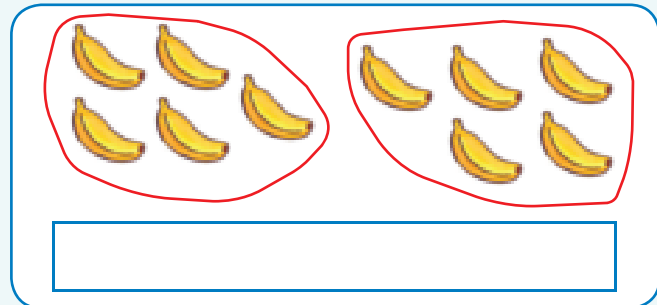
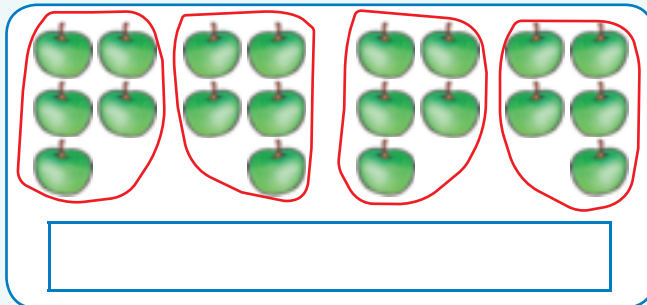
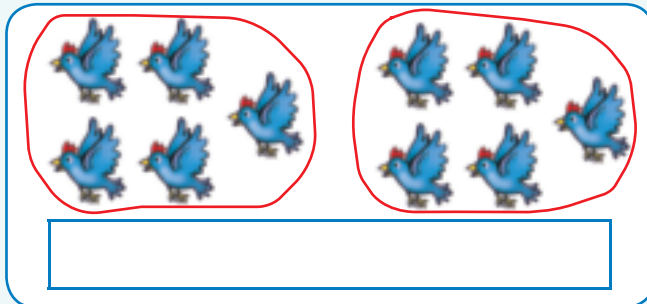
8

9

10



Tlola umutjho weenomboro walokhu okulandelako:



Phendula imibuzo.



Ubona imali yesimbi eziinsende eziyi-5c engangani?

Tlola ipendulo yakho ngomutjho weenomboro.

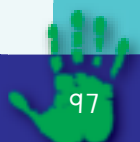


Qedelela ngeenomboro ezilandelako.

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



Teacher:
Sign:
Date:





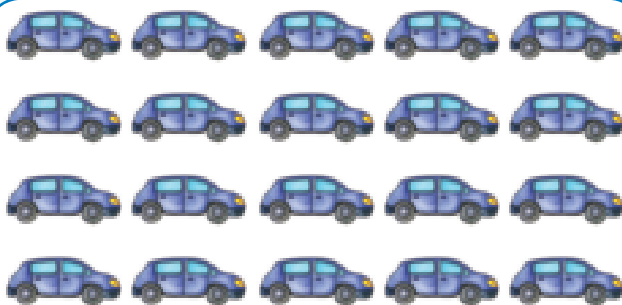
Okuhlanu – ukuhlanganisa okubuyelelweko bekufike ema-20



Beka amabuthhelelo wangakuhlanu bese utlole umutjho weenomboro.











Gwala amabuthhelelo wamajamo ukutjengisa imitjho yeenomboro.

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

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



Tlola umutjho weenomboro walokhu okulandelako:

$5 + 5 =$									



Uzibala kangaki iinomboro ezihlanu? _____

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



Emafesidereni kunezandla ezi-3. Mimino emingaki efesidereni?
Gwala isithombe bese utlole umutjho weenomboro.

Teacher:
Sign:
Date:



Teacher:
Sign:
Date:

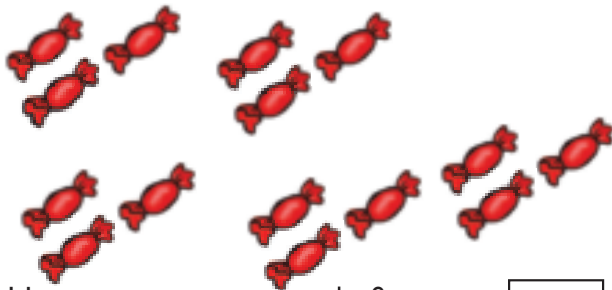
Ukwahlukaniselana bekufike ema-20

Ithemu 4

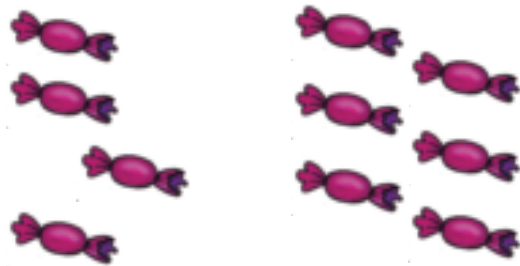


Yabela abangani abahlanu amaswidi.

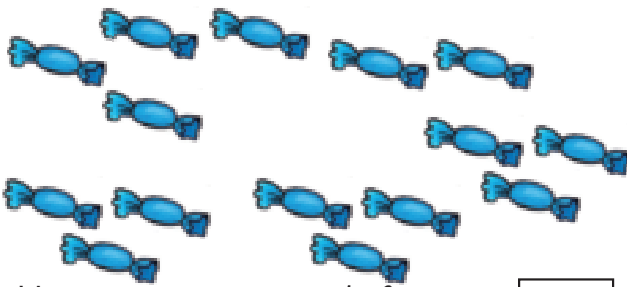
Umngani ngamunye uzokufunyana amaswidi amangaki?



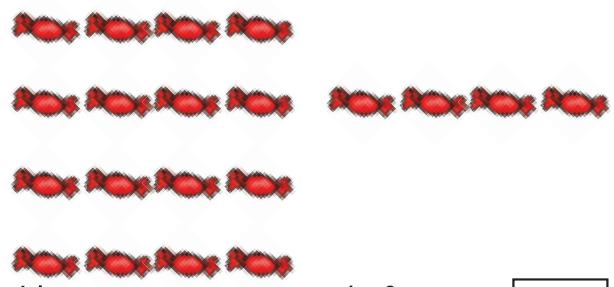
Umngani ngamunye uzokufunyana amaswidi.



Umngani ngamunye uzokufunyana amaswidi.



Umngani ngamunye uzokufunyana amaswidi.



Umngani ngamunye uzokufunyana amaswidi.

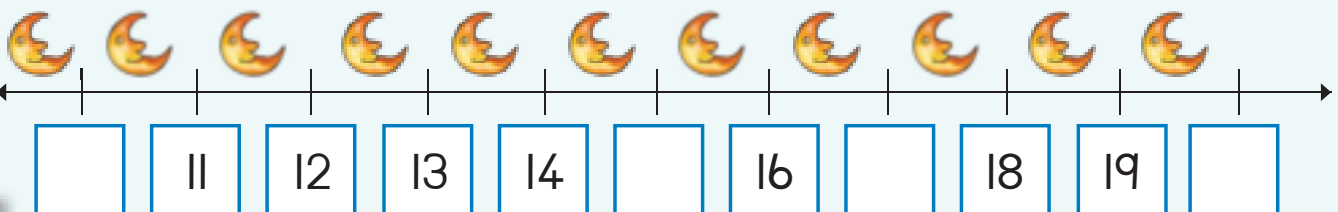


Umngani ngamunye uzokufunyana amaswidi.

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



Qedelela ngeenomboro ezitlhayelako.





Yenza umgwalo ukutjengisa okulandelako.
Ingabe zikhona iimbalisi eziseleko?

Yabela abentwana abahlanu iimbalisi ezili-10.

Kusele iimbalisi

Yabela abentwana abahlanu iimbalisi ezili-10.

Kusele iimbalisi

Yabela abentwana abahlanu iimbalisi ezili-11.

Kusele iimbalisi

Yabela abentwana abahlanu iimbalisi ezili-16.

Kusele iimbalisi



Tlola umutjho weenomboro walokhu okulandelako:



$$5 + 5 =$$



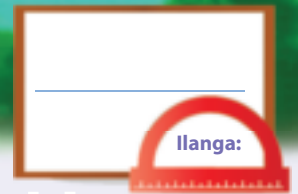






Teacher:
Sign:
Date:





Amaphetheni weenomboro – ngakuhlanu bekufike e-100



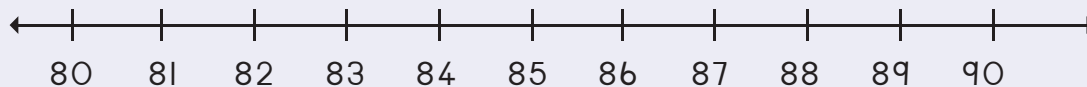
Qedelela iphetheni ngokuthi ukhalare isibuyabuyelelo sangakuhlanu.

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

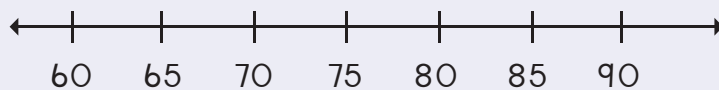


Gwala amawulawubhu ukutjengisa okulandelako:

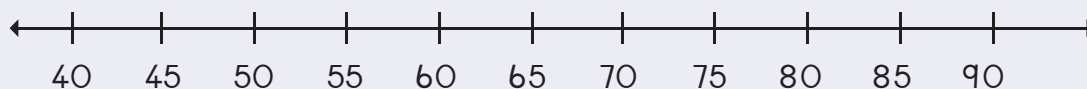
86, 88, 90



70, 75, 80



55, 60, 65, 70



Sebenzisa iwatjhi ukutjengisa imizuzu ebalwa ngakuhlanu.



0

1

2

3

4

5

6

7

8

9

10



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

69
68
67
66
65
64
63
62
61
60

75
70

85
80



Teacher: _____
Sign: _____
Date: _____





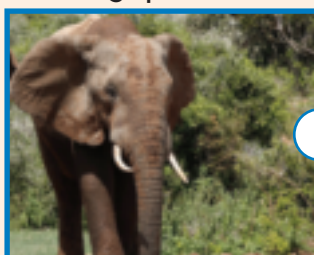
Indawo nokubonakala

Ithemu 4



Madanisa ilingaphambili
kanye nelingemuva
lesilwana.

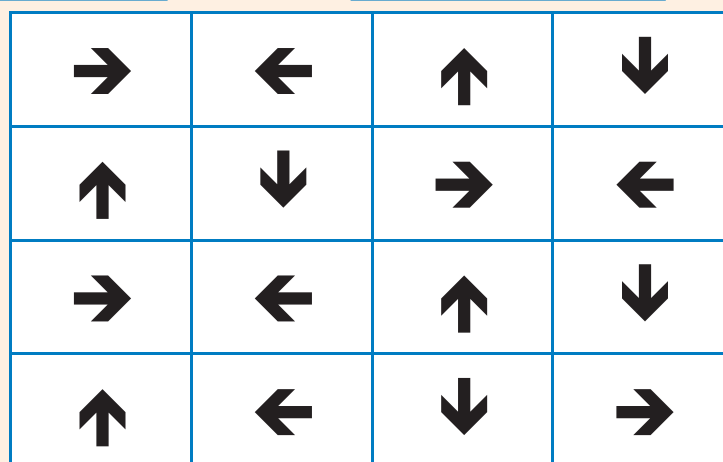
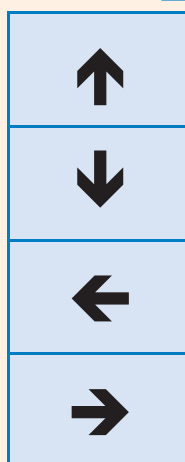
Ilingaphambili



Ilingemuva

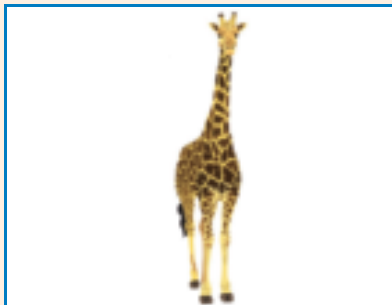


Ndulungela
umkhonto omdana
nomkhonto
ofiphaziweko.





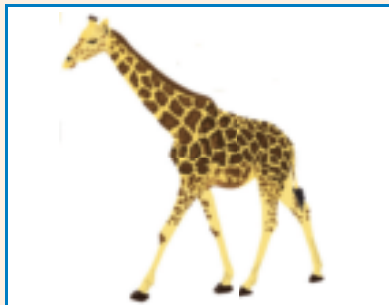
Khalara ukubonakala ekungikho.



Ukubonakala: ngaphezulu

Ukubonakala: ngeqadi/
ngehlangothini

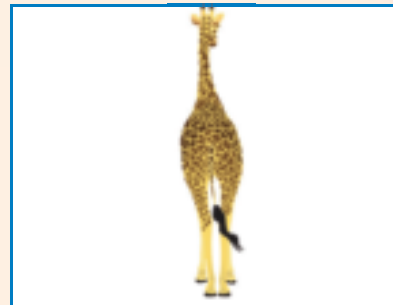
Ukubonakala: ngaphambili



Ukubonakala: ngaphezulu

Ukubonakala: ngeqadi/
ngehlangothini

Ukubonakala: ngaphambili



Ukubonakala: ngemuva

Ukubonakala: ngeqadi/
ngehlangothini

Ukubonakala: ngaphambili



Ukatsi ukuphi?

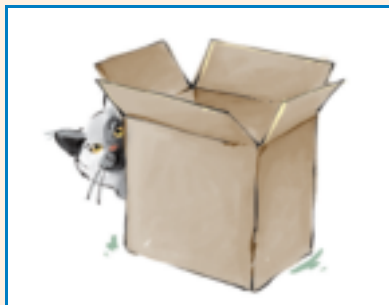
Khalara ipendulo enembako.



Ngemuva

Ngaphambili

Eduze kwe-



Ngemuva

Ngaphambili

Eduze kwe-



Ngemuva

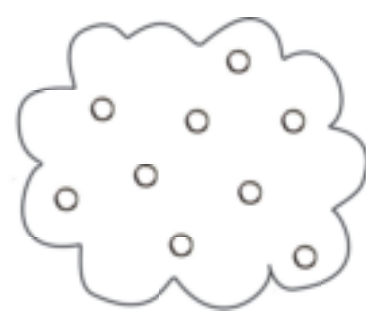
Ngaphambili

Eduze kwe-



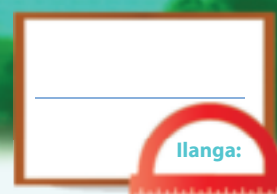
Qalisisa iinthombe
zomuthi.

Khalara ukubonakala
kwangaphezulu.



Teacher:
Sign:
Date:

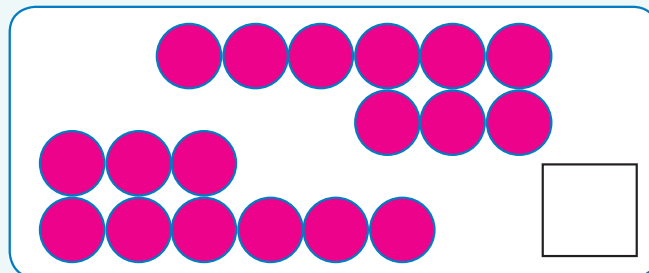
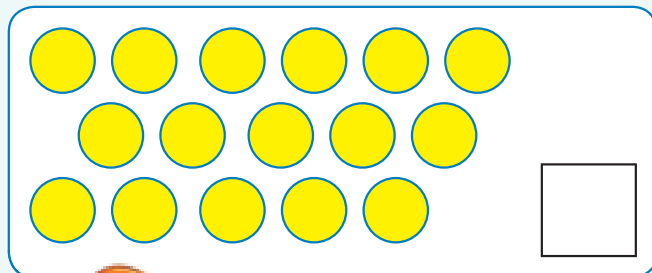
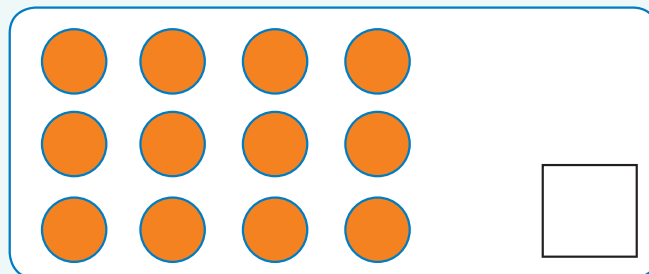
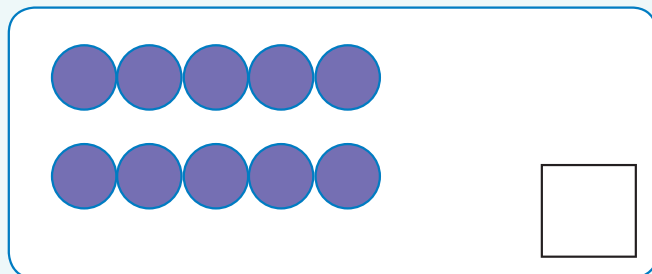
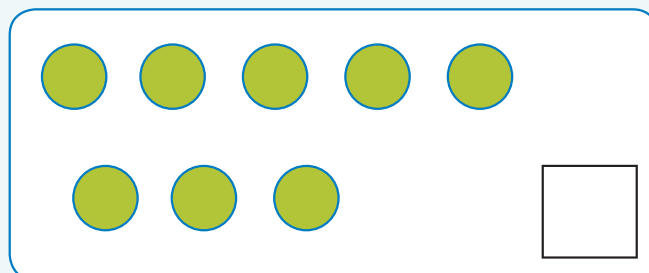
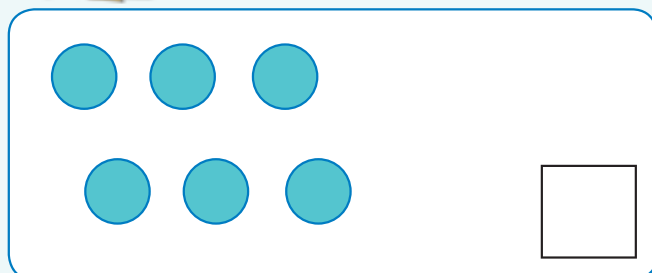




Amabuthhelelo wangakubili bekufike ema-20



Beka amabuthhelelo wangakubili. Tlola kobana kunamabuthhelelo amangaki?



Beka amabuthhelelo wangakubili. Gwala amabuthhelelo.





Phendula imibuzo.



Kuneenyoni ezingaki?

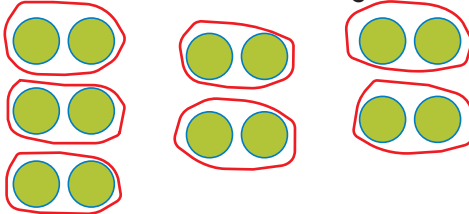
Ungabeka amabuthhelelo wangakubili amangaki?

Tlola umutjho weenomboro.



Gwala iiyingi ukwenza okulandelako:

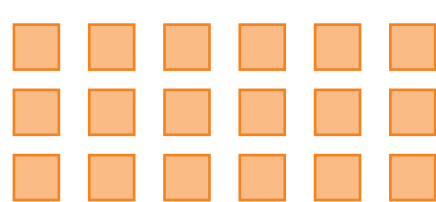
Amabuthhelelo ali-7 wangaku-2



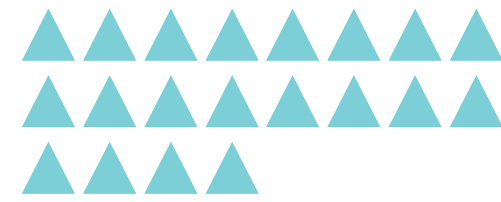
Amabuthhelelo abu-8 wangaku-2



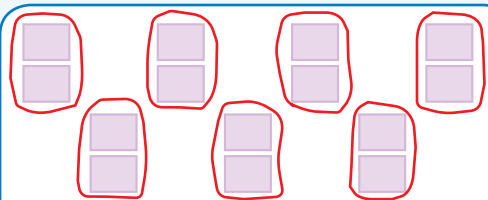
Amabuthhelelo ali-9 wangaku-2

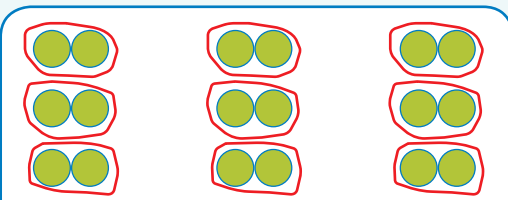


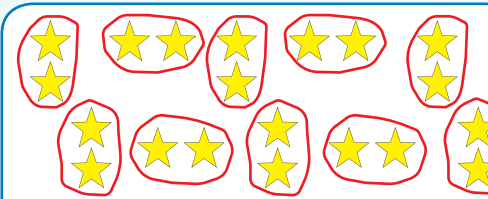
Amabuthhelelo ali-10 wangaku-2

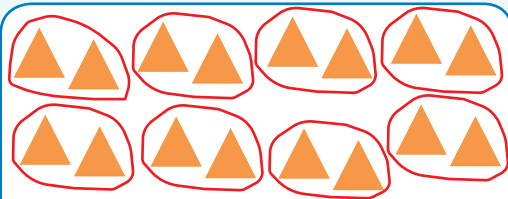


Tlola umutjho weenomboro walokhu okulandelako:











Teacher:
Sign:
Date:

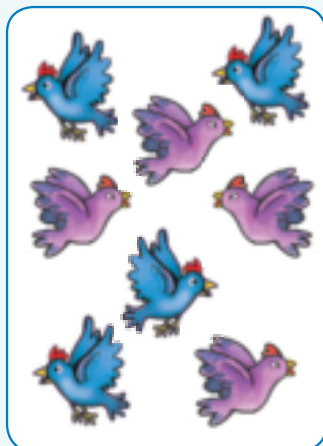


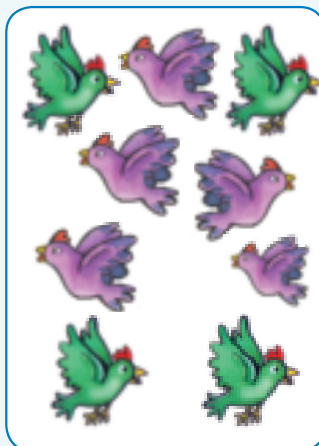
Ngakubili – ukubala okubuyelelweko bekufike ema-20

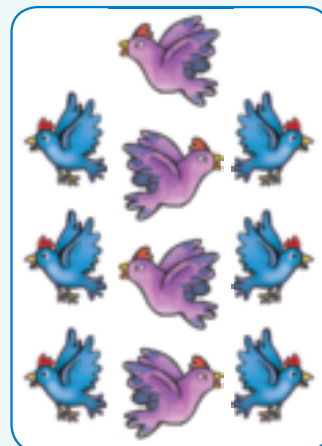


Kuneenyawo ezingaki? Gwala umutjho weenomboro wesibalo ngasinye.











Gwala amajamo walokhu okulandelako:

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



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

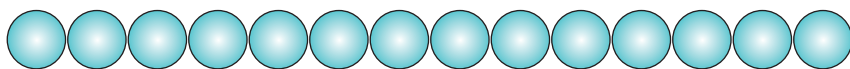
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

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

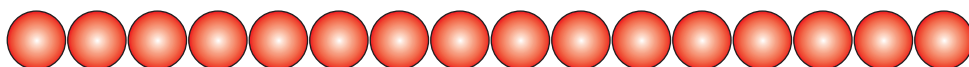


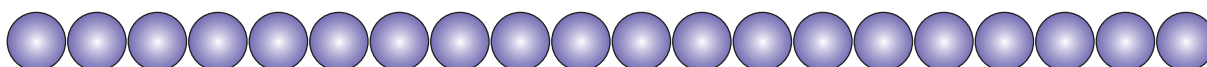


Tlola umutjho weenomboro walokhu okulandelako:



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









Khalara isibuyabuyelelo sangakubili.

1	2	3	4	5	6	7	8	9	10
11	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.

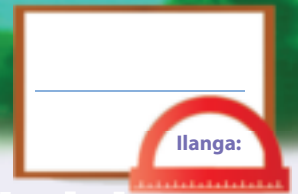
Nginamaswidi .



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20



Amaphetheni weenomboro – ngakubili bekufike e-100



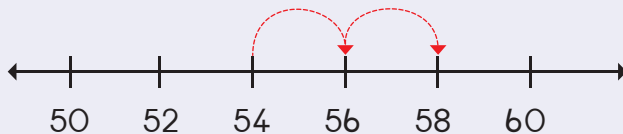
Qedelela iphetheni ngokukhalara.

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

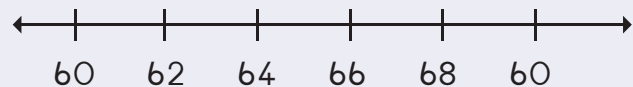


Gwala amawulawubhu ukutjengisa okulandelako:

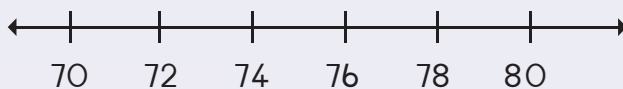
54, 56, 58



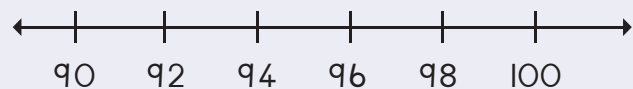
64, 66, 68



74, 76, 78



94, 96, 98

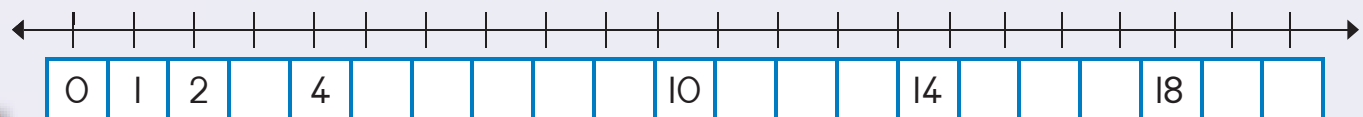


Qedelela ngeenomboro ezitlhayelako. Khalara iphetheni yeenomboro: 2, 4, ...

I		3				7			10
II						17			20



Qedelela inambalayini.





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

69
67
65
63
61
60

79
77
75
73
71
70

89
87
85
83
81
80

99
97
95
93
91
90



Teacher:

Sign:

Date:



120



Ilanga:

Iphetheni yeenomboro – ngakubili bekufike e-100



Uyayibona iphetheni yangakubili?



Khalara amabhlogo ukutjengisa amabuthhelelo wangakubili.
Bala kobana kunamabuthhelelo amangaki?

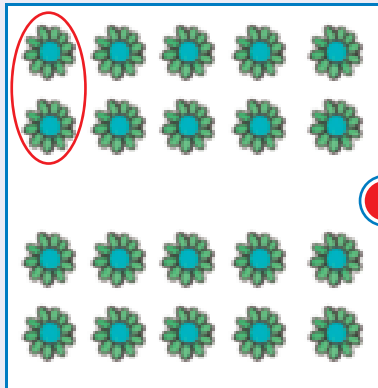


4

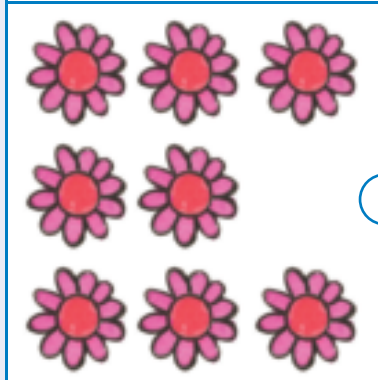




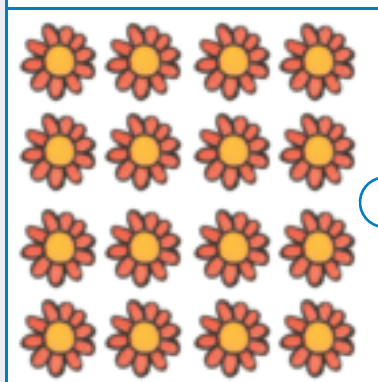
Madanisa amabuthhelelo wangakubili nomutjho weenomboro ngokuthi ugwale umuda.



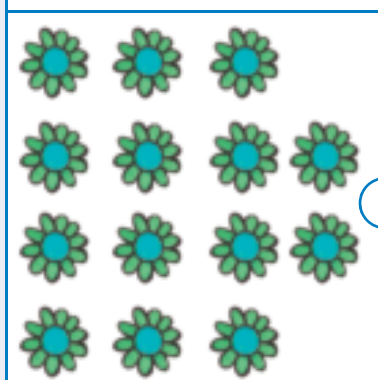
$$2 + 2 + 2 + 2 = 8$$



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



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



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



Teacher:
Sign:
Date:



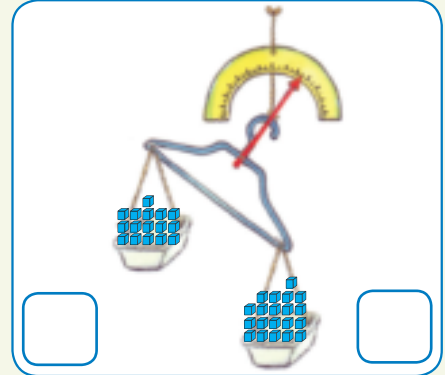
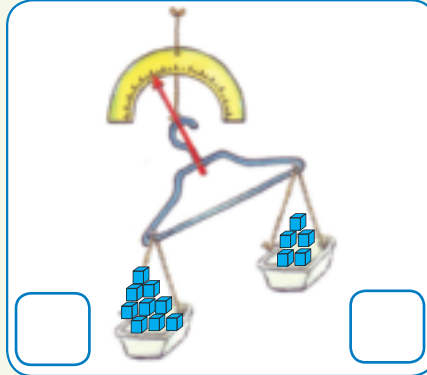
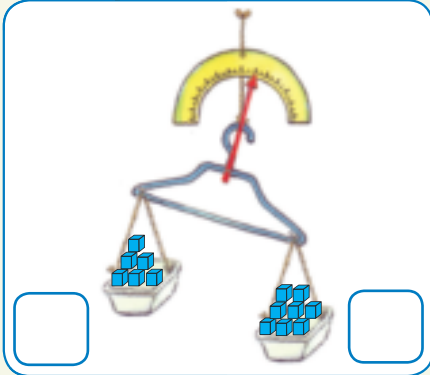


Imasi (ubudisi)

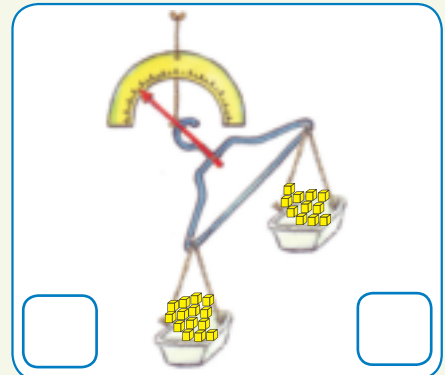
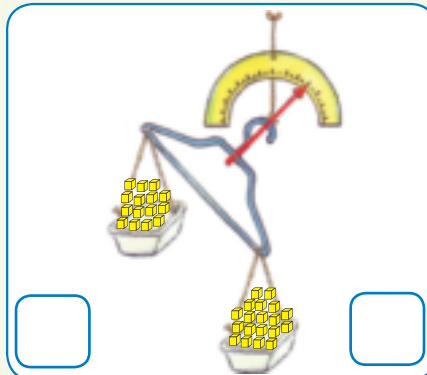
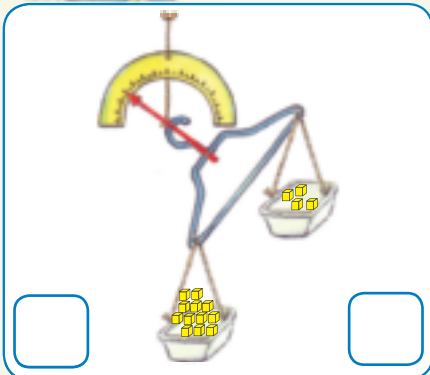
Ithemu 4



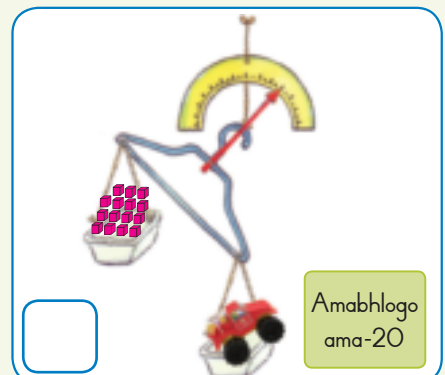
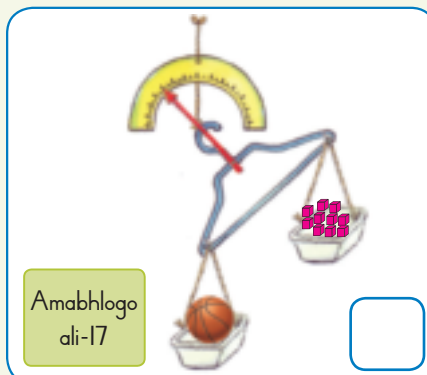
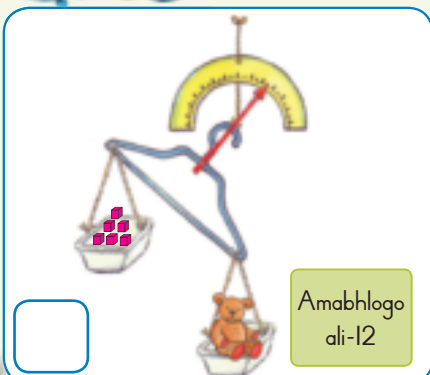
Tlola kobana mabhlogo amangaki esimumathini ngasinye.
Ndulungela isimumathi esibudisi khulu.



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



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



Amabhlogo
ali-12

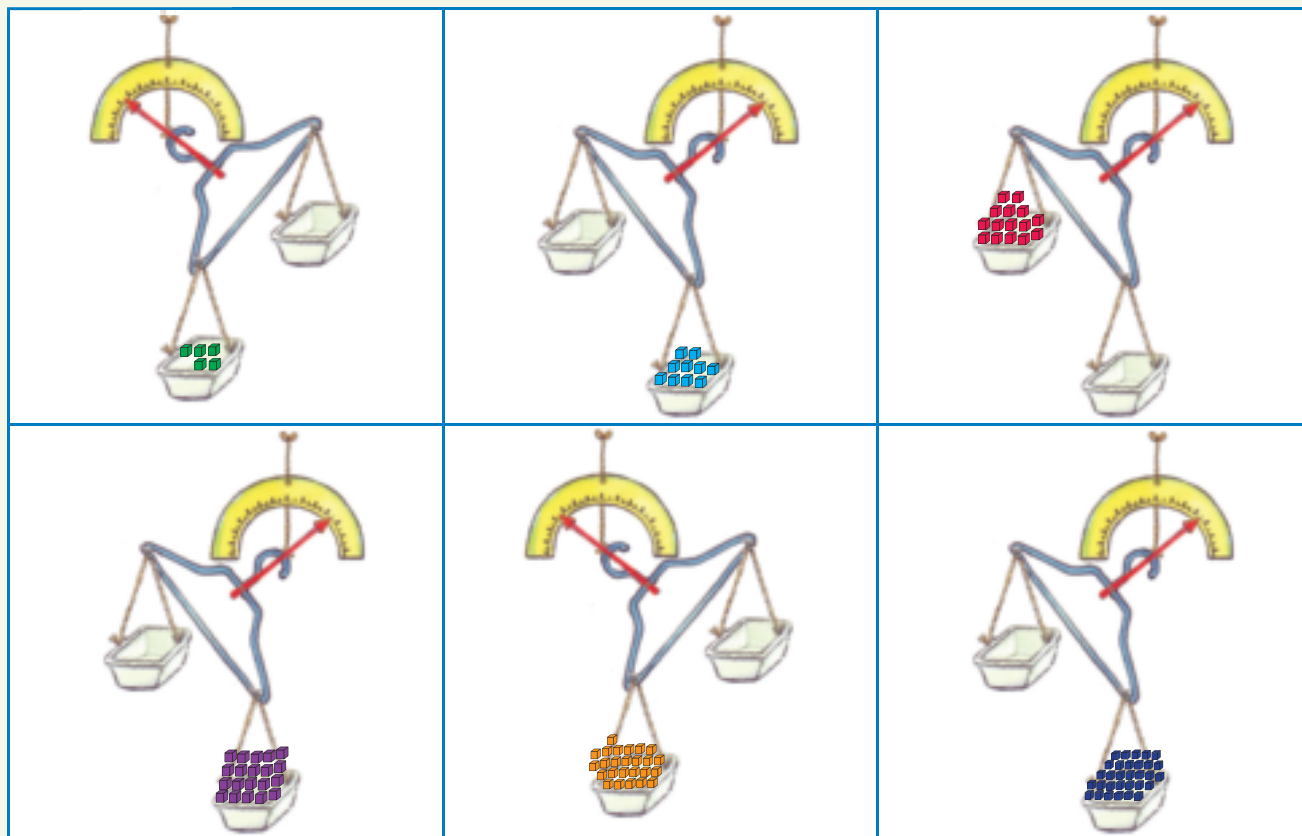
Amabhlogo
ali-17

Amabhlogo
ama-20



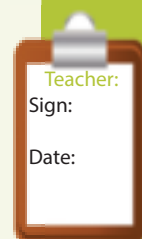


Gwala into ebudisi nanyana elula kunamabhlogo.



Sebenzisa izinto ezihlanu 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 ____	____ - ____ = ____





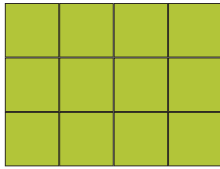
Ukubuyelela kabili

Ithemu 4

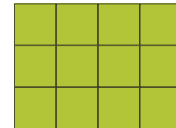
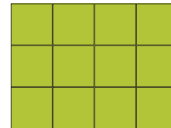


Phendula okulandelako:

Kuneenkwere ezingaki?



Kwanje kuneenkwere ezingaki?



Sithi i-12 nalibuyelelwe kabili ipendulo ma-24.

Ubona imilenze emingaki?

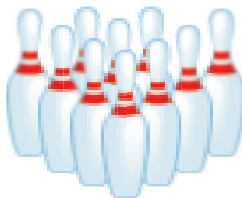


Kwanje sele kunemilenze emingaki?



Sithi isi-6 nasibuyelelwe kabili

Kunamasketle amangaki?



Kwanje sele kunamasketle amangaki?



Sithi i-10 nalibuyelelwe kabili 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 nalibuyelelwe kabili ipendulo

Kunamakhrayoni amangaki?



Kwaje kunamakhrayoni amangaki?



Sithi u-8 nakabuyelelwe kabili ipendulo





Tlola ipendulo.

u-4 nakabuyelelwe kabili	=	8
i-10 nalibuyelelwe kabili	=	
i-11 nalibuyelelwe kabili	=	
oku-2 nakubuyelelwe kabili	=	
isi-6 nasibuyelelwe kabili	=	



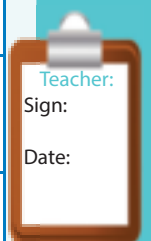
Tlola ipendulo.

Okubili nakubuyelelwe kabili	okune
Okuthathu nakubuyelelwe kabili	
Okune nakubuyelelwe kabili	
Okuhlanu nakubuyelelwe kabili	
Okusithandathu nakubuyelelwe kabili	
Okulikhomba nakubuyelelwe kabili	



Qedelela itheyibula.

$9 + 9 + 1 =$		nanyana	Okuli-9 nakubuyelelwe kabili + 1 =	
		nanyana	Okubu-8 nakubuyelelwe kabili + 1 =	
$10 + 10 + 1 =$		nanyana		
$7 + 7 + 1 =$		nanyana	Okuli-7 okubuyelelwe kabili + 1 =	



123



Ilanga:

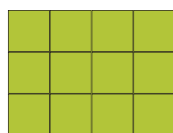
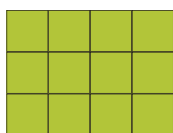
Ukuhafula

Ithemu 4

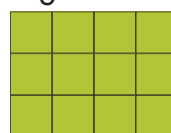


Phendula okulandelako:

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	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



118

0

1

2

3

4

5

6

7

8

9

10



Tlola ipendulo.

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



Tlola ipendulo.

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



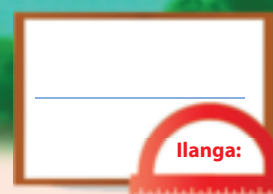
Tlola ipendulo.

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



Teacher:
Sign:
Date:

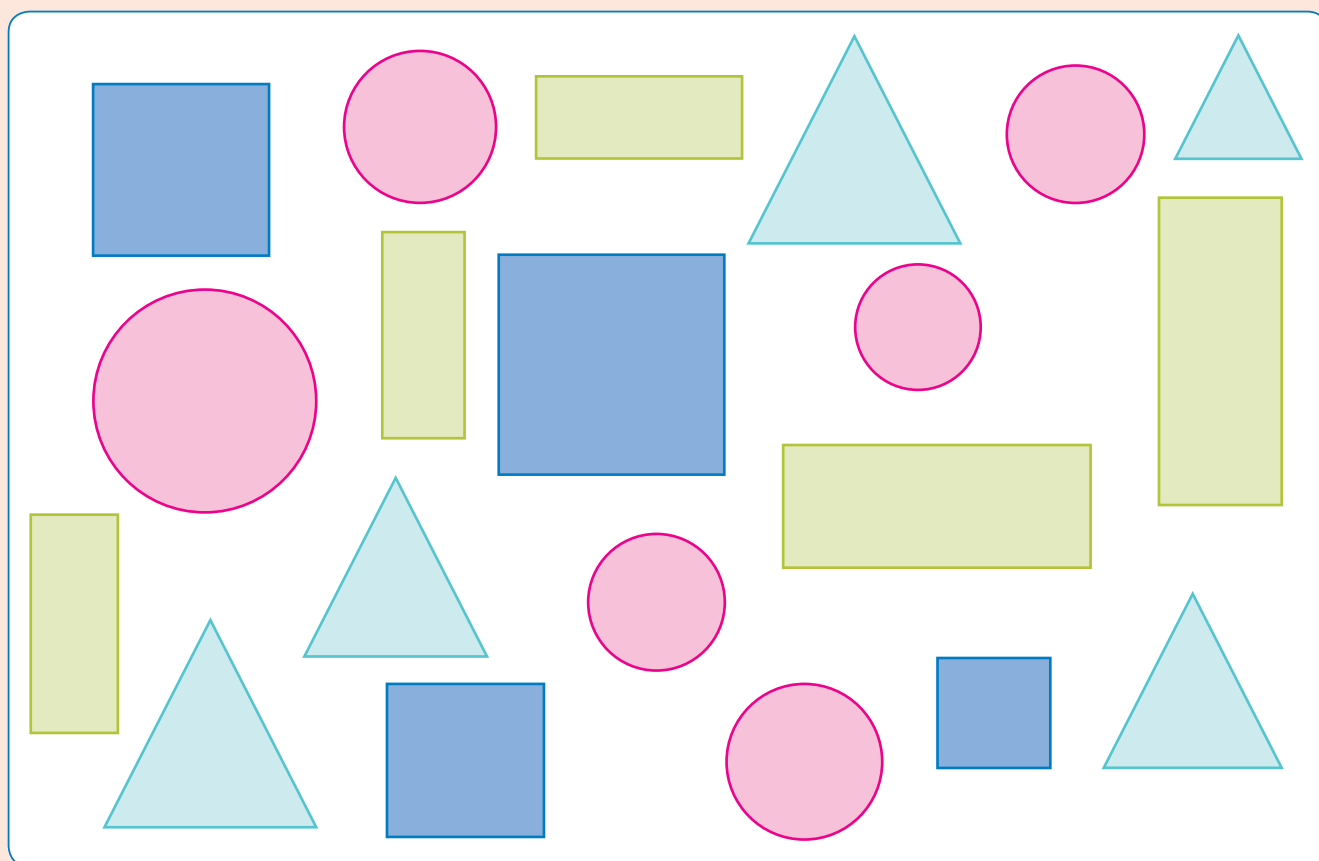




Idatha

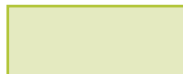


Bala kobana kunamajamo amangaki ahlukeneko owabonako bese upendula imibuzo.



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	Ibhanana	I-orentji

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



Teacher:
Sign:
Date:



11 12 13 14 15 16 17 18 19 20





Enye idatha



Abentwana ngetlasini baneendlalisi ezilandelako.
Unemihlobo emingaki yalokhu?



Qedelela itheyibula.

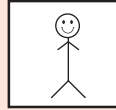
Isidlalisi	Inomboro
Abonodoli	
Amatraga	
Amabhere	
Amarobodi	



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

Iindlalisi esinazo

Isikhiya =



Abonodoli	Amatraga	Amabhere	Amarobodi



Phendula imibuzo elandelako. Qalisisa igrafu yeenthombe izokusiza.

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



Teacher:
Sign:
Date:



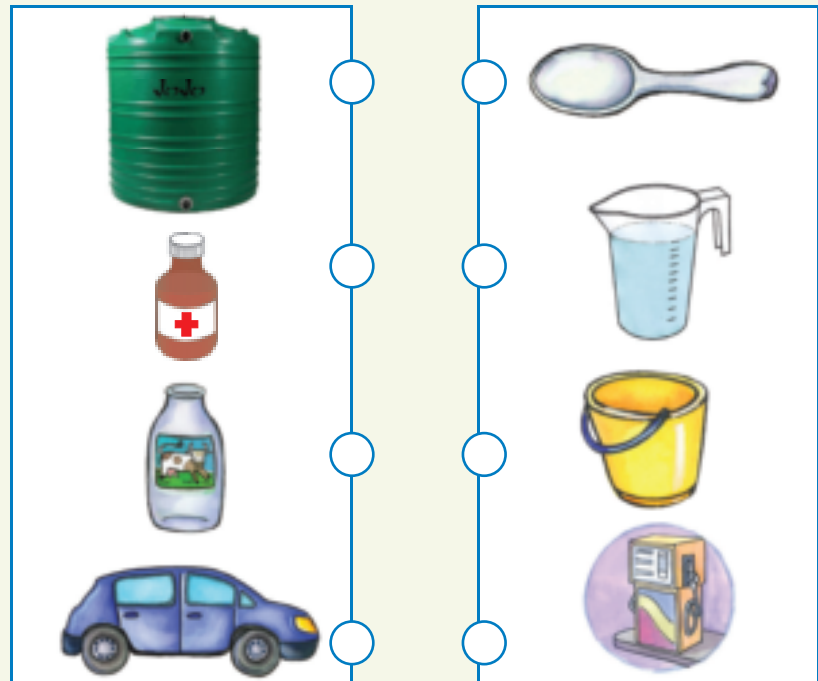


Umthamo

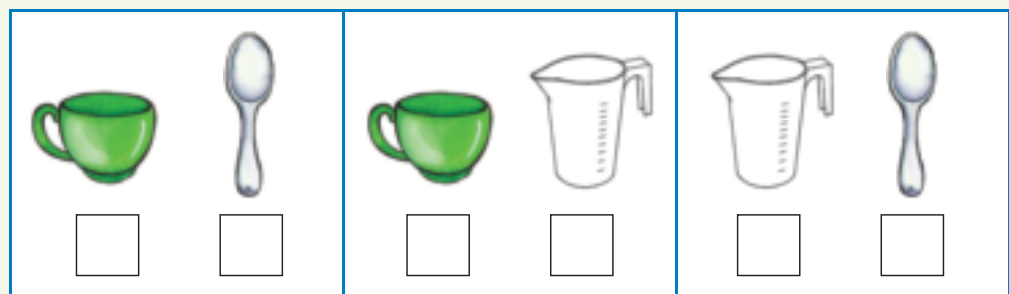
Ithemu 4



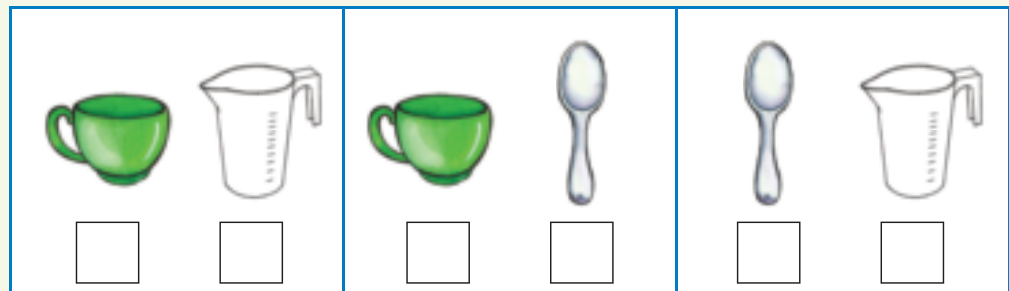
Itlelezi silimeda njani? Gwala umuda ukumadanisa into enesisetjenziswa sokumeda ekungiso.



Thika isimumathi esizokuba nokuncani.



Thika isimumathi esizokuba nokunengi.

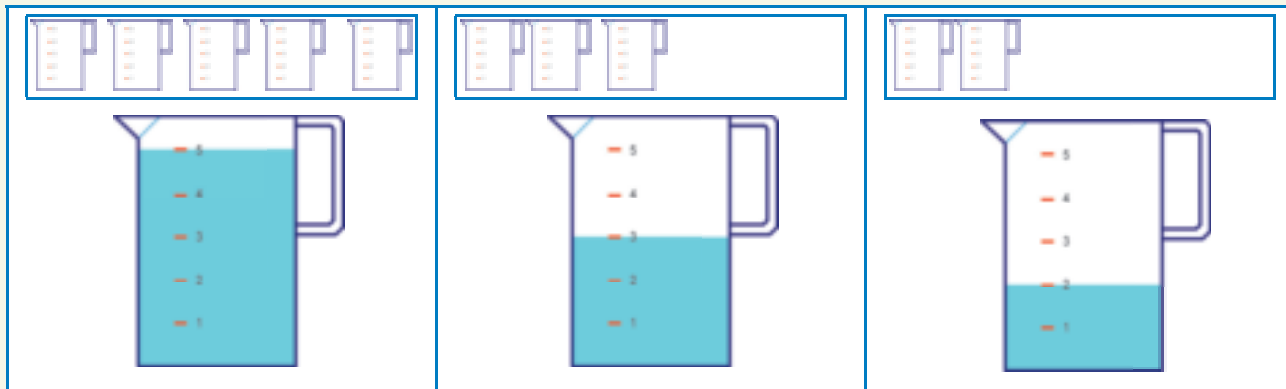


Ingabe iimumathi zizele nanyana azinalitho?

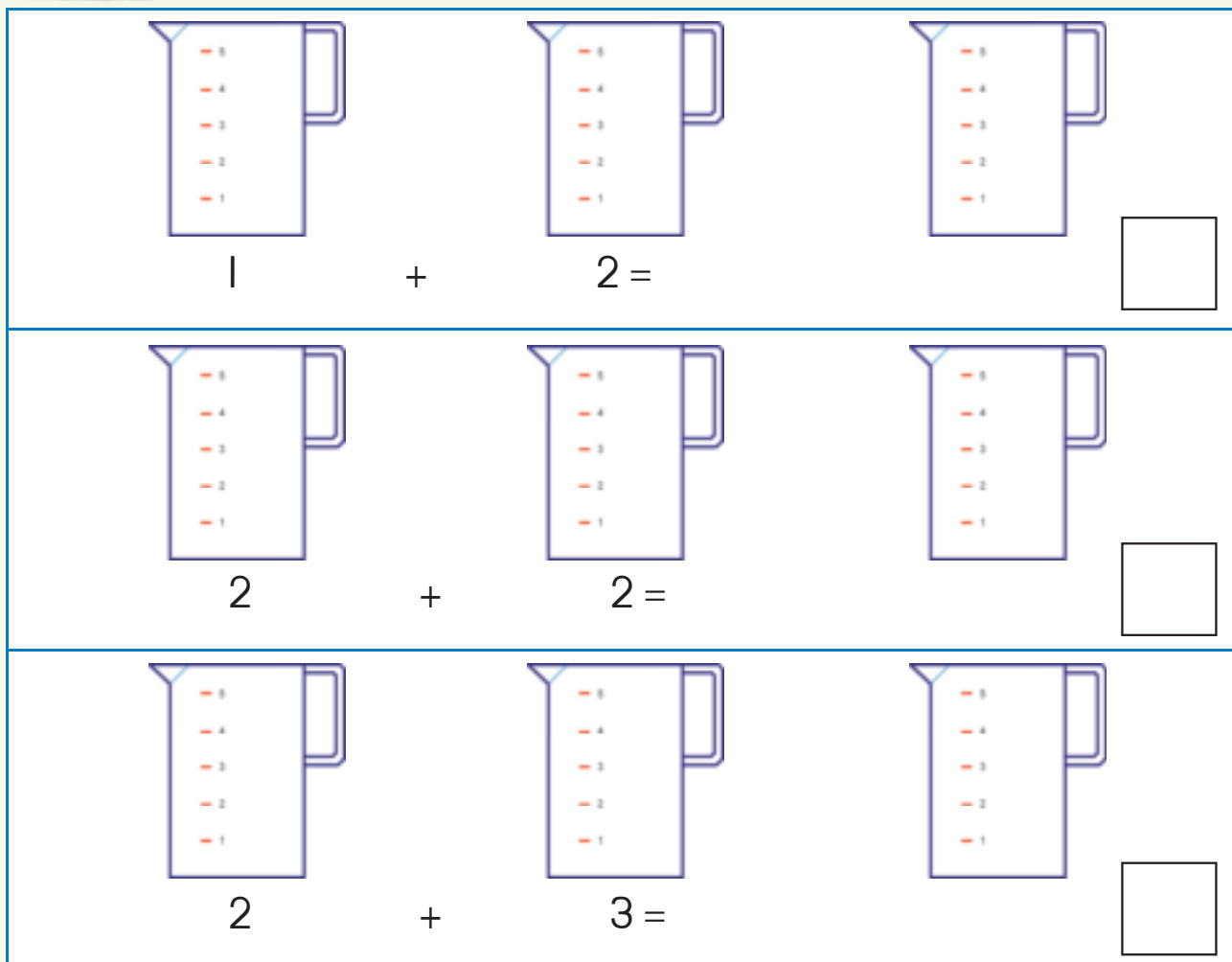




Utlhoga amakopi amahlanu ukuzalisa ijege. Uzokutlhoga amanye amakopi amangaki ukuzalisa amanye amajege amabili? Gwala amakopi lawo.



Khalara inani elinembako lamanzi.



Teacher:
Sign:
Date:





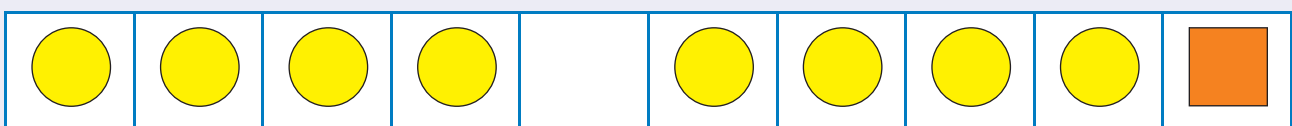
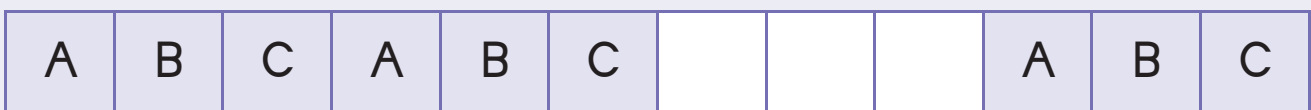
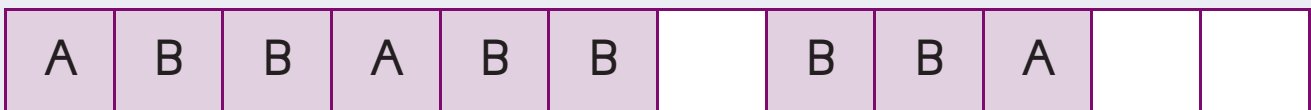
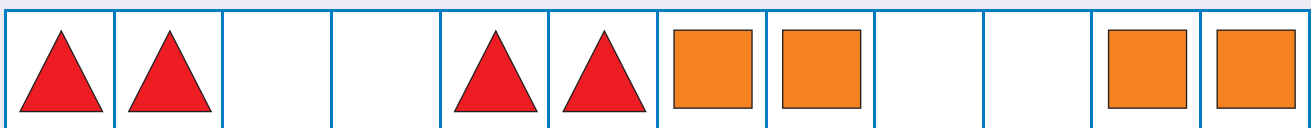
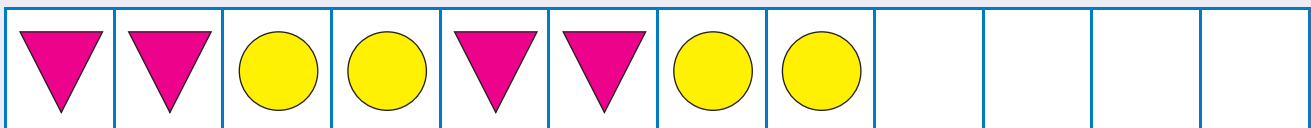
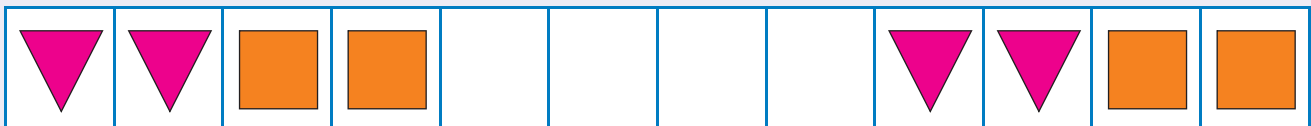
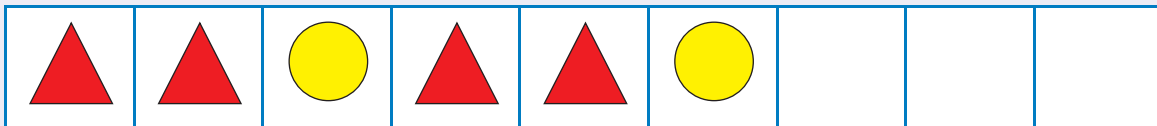
Ilanga:

Amaphetheni wejiyomethri



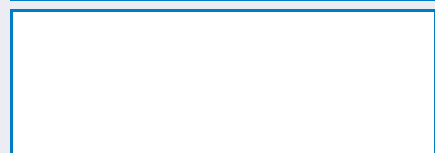
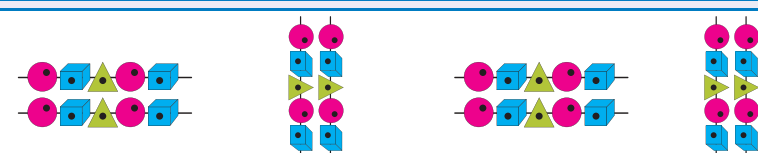
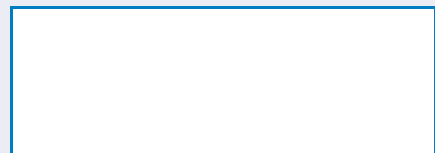
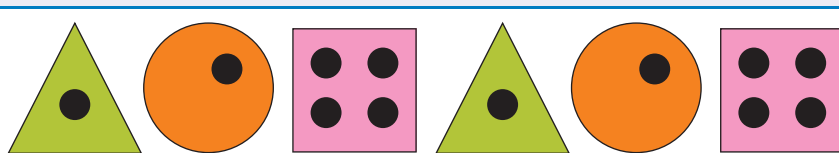
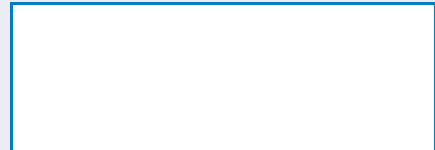
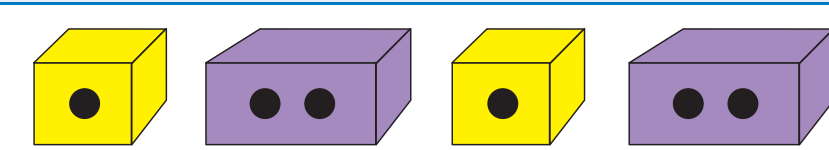
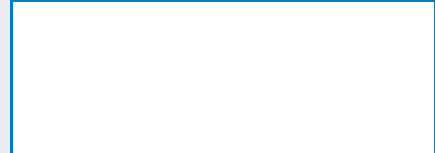
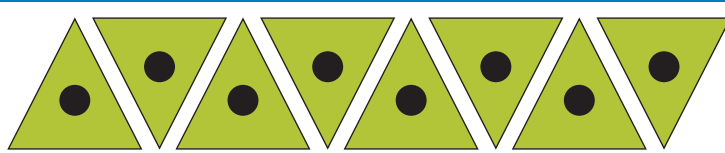
Qedelela amaphetheni.

Ithemu 4

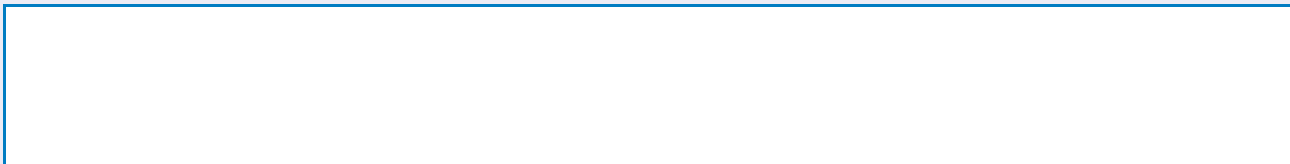
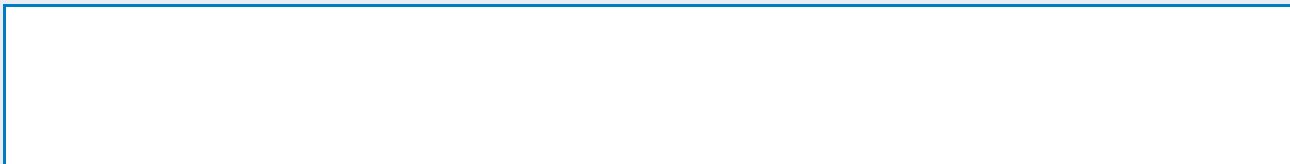
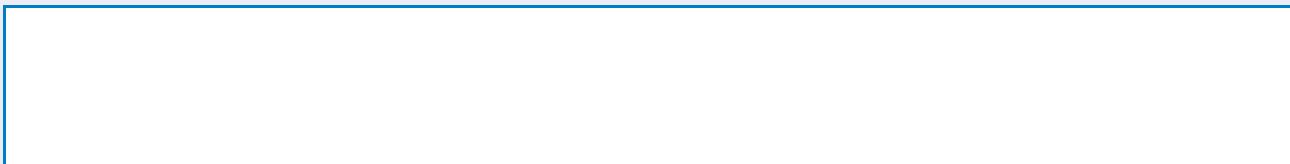
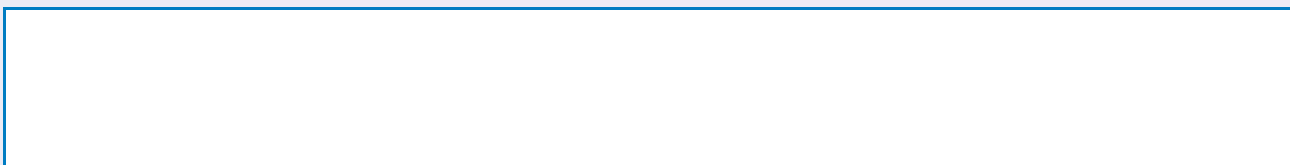




Yelula iphetheni.



Zenzele wakho amaphetheni usebenzise iyingi, iinkwere naboncantathu.



Teacher:
Sign:
Date:



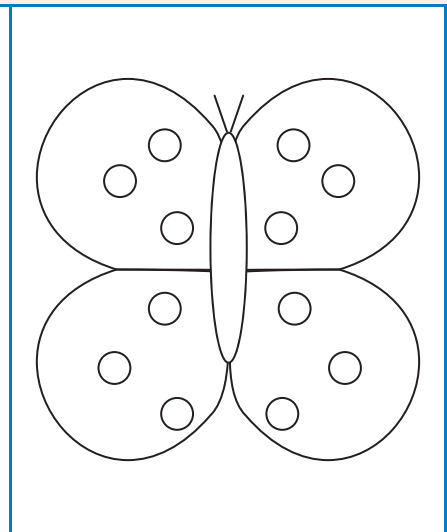
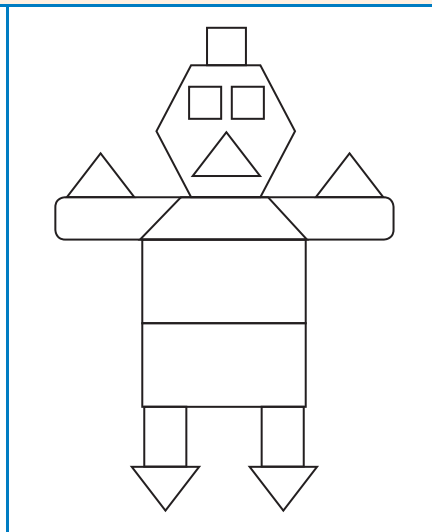
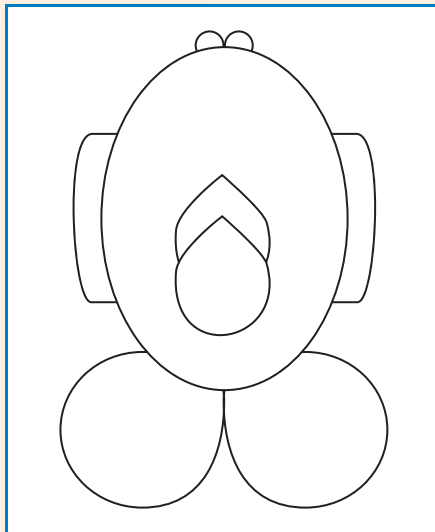


Isimethri/Ukubandeka -bulingana

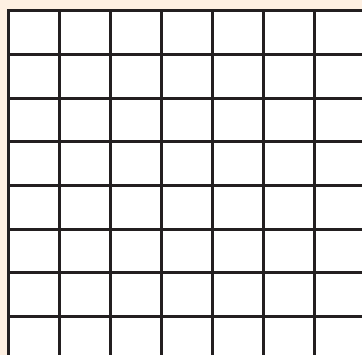
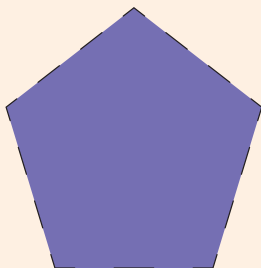
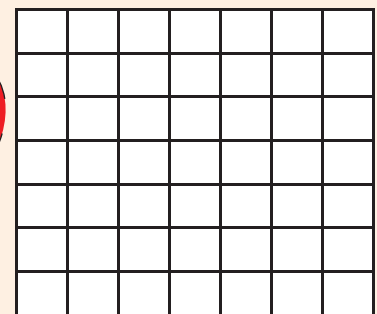
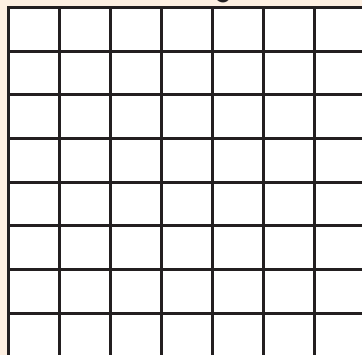
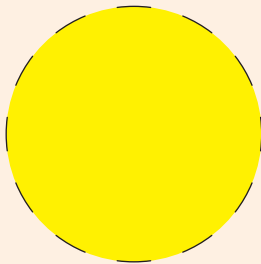
Ithemu 4



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

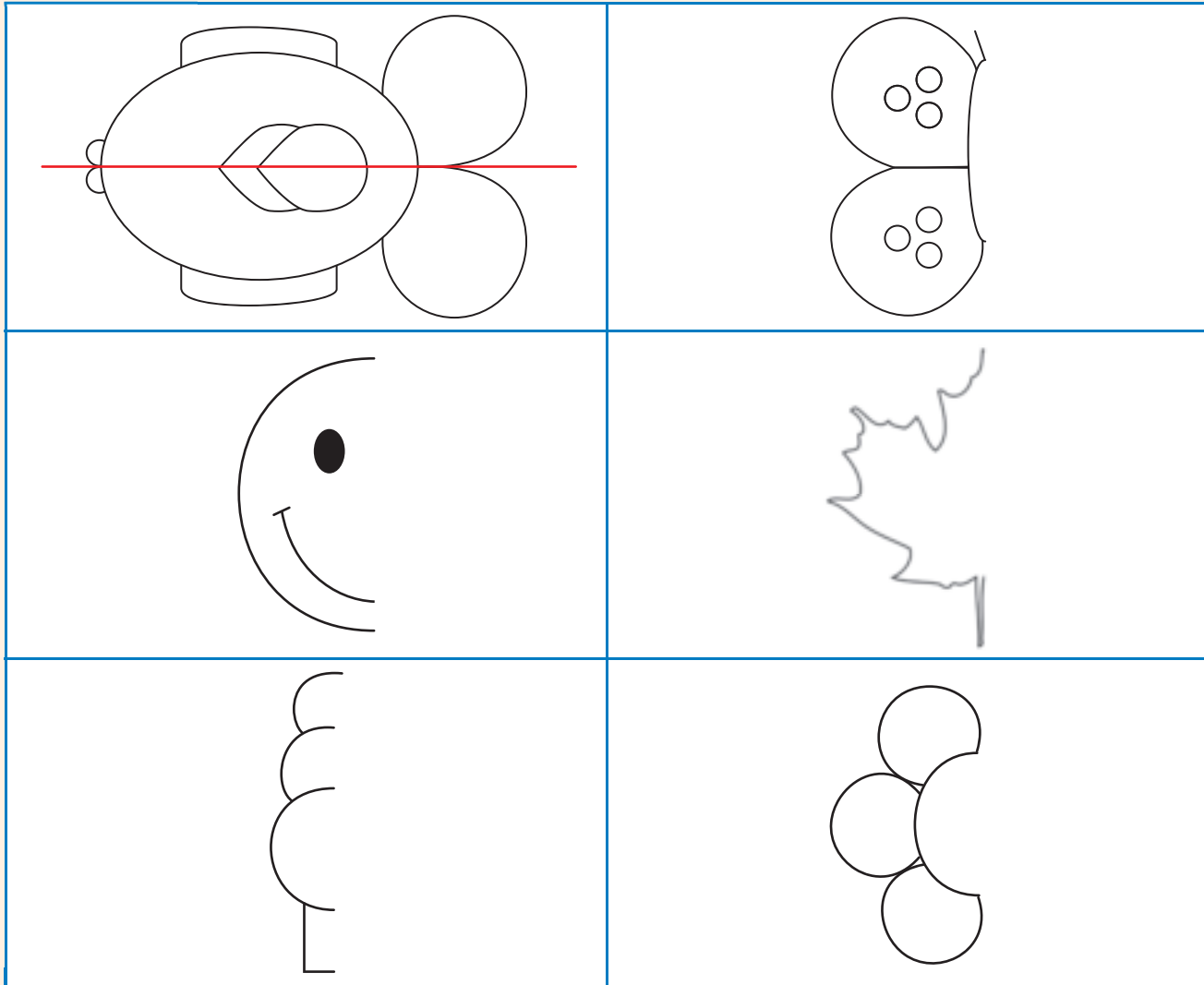


Kopulula amajamo alandelako bese ugwala umuda ozokutjengisa ukubandeka -bulingana.

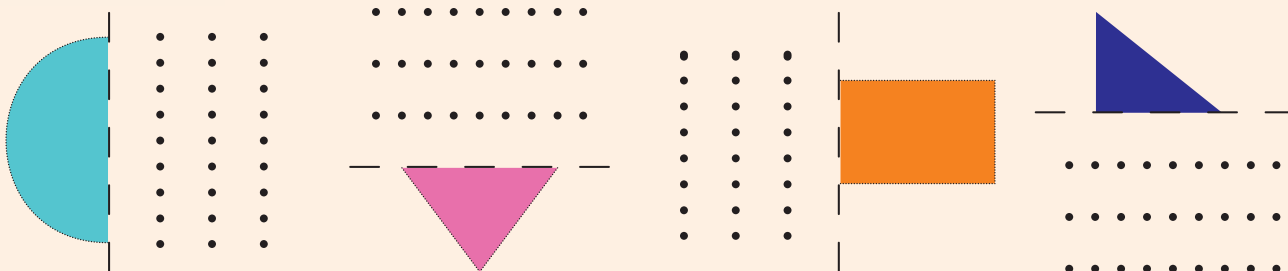




Qedelela isithombe ngokuthi ugwale enye ihafu efana patsi nale enikelweko.



Gwala enye ihafu yamajamo.



Amanowuthi



A large rectangular area with horizontal blue lines for writing, set against a light blue background. A vertical red line is positioned on the left side of the writing area.

Amanowuthi



A large rectangular area with horizontal blue lines for writing, set against a light blue background. A vertical pink line is positioned on the left side of the writing area, creating a margin.

Amanowuthi



A large rectangular area with horizontal blue lines for writing, set against a light blue background. A vertical red line is positioned on the left side of the writing area.

Cut-out 1

Worksheet 79



Cut out cards 2

Worksheet 83

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

Worksheet 84

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

Worksheet 93

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

Worksheet 115

72	78	82	84	86	74	80
76	88	90				

Worksheet 119

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

