

**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.**

**UMthethosisekelo usisiza ukucabanga nok wakha iilungomuso elingcono 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 lekhethu;

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 ozokuzimelela 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.

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.*

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

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**14th Edition**



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**IMBALO  
NGESINDEBELE**

Incwadi 2  
Ithemu  
3 & 4

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UKkz. Angie Motshekga,  
nguNqgonqgotjhe  
weFundo-Sisekelo



Dorh. Reginah Mhaule,  
nguSekela  
kaNqgonqgotjhe  
weFundo-Sisekelo

Iincwadi lezi zenzelwe abantwana beSewula Afrika ngaphasi koburholi bakaNqgonqgotjhe wezeFundo-Sisekelo uMma u-Angie Motshekga, 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 ziliziso 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 - 11

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola iinomboro.

 kunye

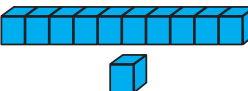
1 1

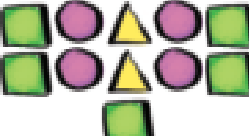
 kubili

2 2



Madanisa iinthombe.

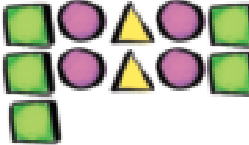




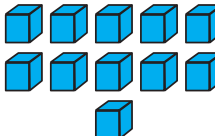
10 1


11





11



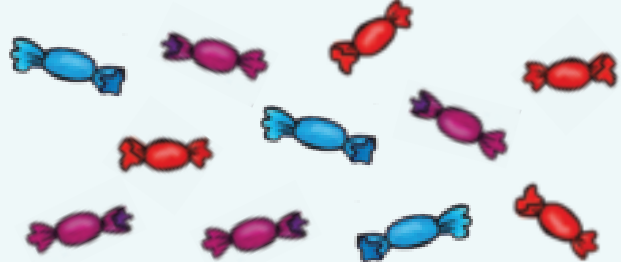


10 1



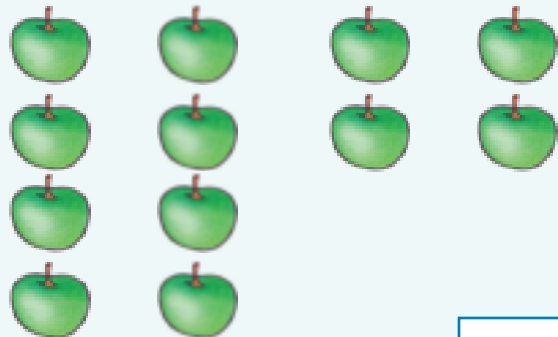
Ndulungela izinto.

Ndulungela amaswidi ali-10 kwaphela.



Kusele amaswidi amamngaki?

Ndulungela ama-apula ali-10 kwaphela.



Kusele ama-apula amangaki?





Gadangisa iinomboro.

itjhumini nakunye			



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

3	5	4
4	5	
4		2



Gwala izinto ezili-II.

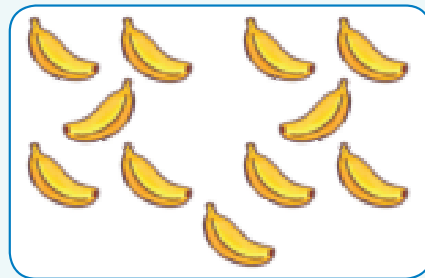


Qedelela ngeenomboro ezitlhayelako.

○ 1    ○ 2    ○    ○ 4    ○



Bala izinto.



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

		itjhumini nanye
		itjhumini nanye
	itjhumini nakunye	



Inomboro encani ngakunye ku-II. \_\_\_\_\_

Inomboro ekulu ngakunye ku-II. \_\_\_\_\_

○  
□  
△

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



# Ukuzwisisa inomboro ye-12

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola iinomboro.

 kuthathu

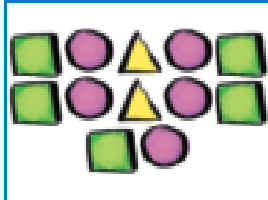
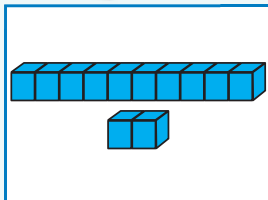
3 3

 kune

4 4

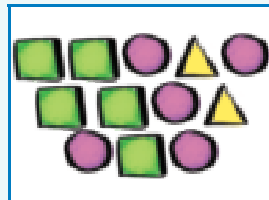


Madanisa iinthombe.

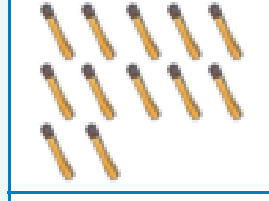
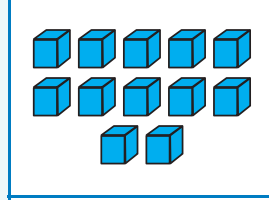


10  
2

12



12



10  
2



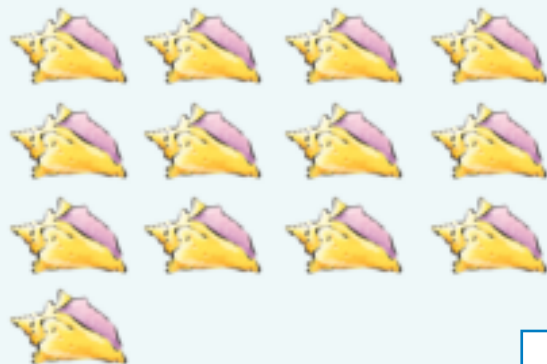
Ndulungela izinto.

Ndulungela amanyathelo ali-10 kwaphela.



Kusele amanyathelo amangaki?

Ndulungela amaqephe ali-12 kwaphela.



Kusele amaqephe amangaki?





Gadangisa iinomboro.



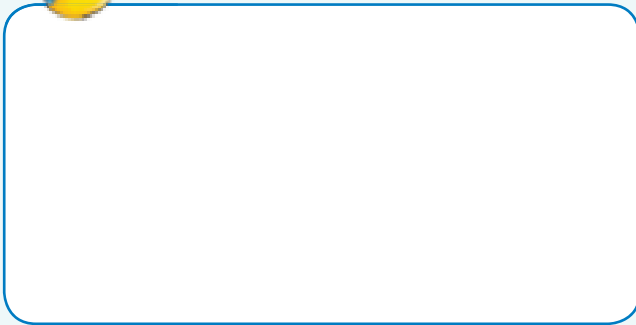
Ikholomu ngalinye kumele lithi nalihlanganiswako lenze i-12. Qedelela ngenomboro ezitlhayelako.

12	12	12	12
itjhumini nambili			
12	12	12	12

	7	6
4		4
3	2	
12	12	12



Gwala izinto ezili-12.



Qedelela ngenomboro etlhayelako.

3		5			
8			11		



Bala izinto.



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



		itjhumini nambili
	12	itjhumini nambili
		12
itjhumini nambili		

Inomboro encani ngakunye ku-12. \_\_\_\_\_

Inomboro ekulu ngakunye ku-12. \_\_\_\_\_

Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_



# Ukuzwisisa inomboro ye-13

Ukubuyekeza:

Zijayeze ukutlola iinomboro.



kuhlanu

5 5

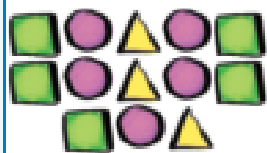
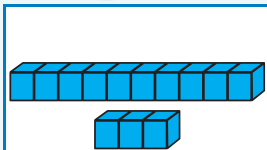


kuthandathu

6 6



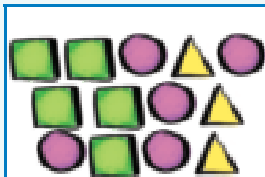
Madanisa iinthombe.



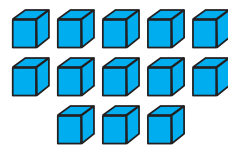
10

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.



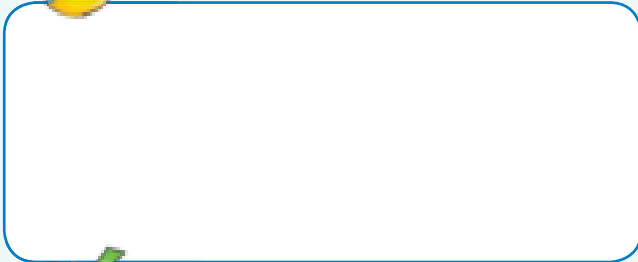
13	13	13	13
itjhumini nantathu			
13	13	13	13

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

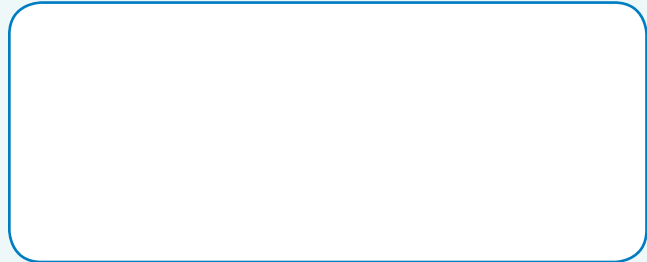
1	2	6
1		
	3	2
13	13	13



Gwala izinto ezili-13.



Kwanje zigwale ngendlela eyehlukileko.

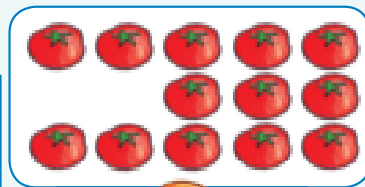
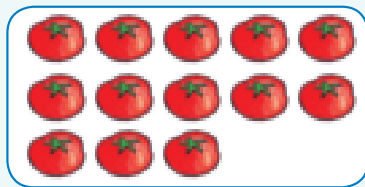


Qedelela ngeenomboro ezitlhayelako.

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



Bala izinto.



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



		itjhumini nantathu
	13	itjhumini nantathu
13		
	itjhumini nantathu	

Inomboro encani ngakunye ku-13. \_\_\_\_\_

Inomboro ekulu ngakunye ku-13. \_\_\_\_\_

Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



# Ukuzwisisa inomboro ye-14

Ithemu 3

Ukubuyekeza:

Zijayeze ukutlola iinomboro.

 likhomba

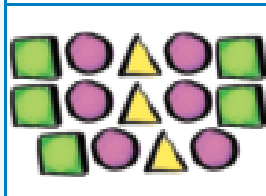
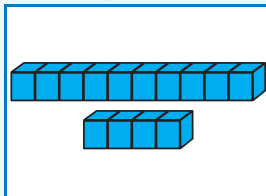
7 7

 bunane

8 8

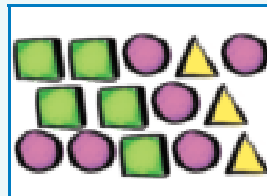


Madanisa iinthombe.

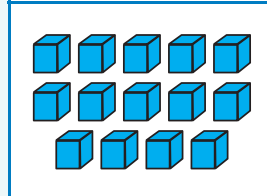


10 4

14



14



10 4



Ndulungela izinto.

Ndulungela amaviyaviyani ali-10 kwaphela.



Kusele amaviyaviyani amangaki?

Ndulungela amarogo ali-14 kwaphela.



Kusele amarogo amangaki?





Gadangisa iinomboro.



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

1		2
	5	1
3	2	
14	14	14

14	14	14	14
itjhumini nane			
14	14	14	14



Gwala izinto ezili-14.

Kwanje zigwale ngendlela eyehlukileko.



Bala izinto.



Qedelela ngeenomboro ezitlhayelako.



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

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



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



Inomboro encani ngakunye ku-14. \_\_\_\_\_

Inomboro ekulu ngakunye ku-14. \_\_\_\_\_

	14	itjhumini nane
14		
	itjhumini nane	



Teacher:
Sign:
Date:



# Ukuzwisisa inomboro ye -15

Ukubuyekeza:

Zijayeze ukutlola inomboro.



lithoba

9 9



litjhumi

10 10

Ithemu 3



Madanisa iinthombe.

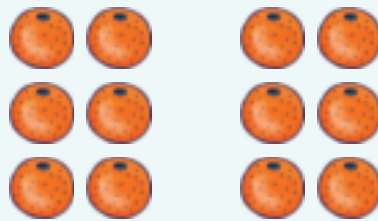
10 <input type="text" value="5"/>
15



Ndulungela izinto.

15
10 <input type="text" value="5"/>

Ndulungela ama-orentji ali-10 kwaphela.



Kusele ama-orentji amangaki?

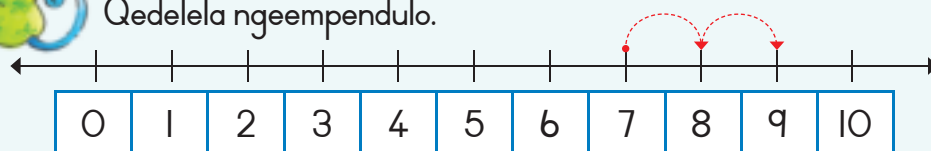
Ndulungela iinkwekwezi ezili-15 kwaphela.



Kusele iinkwekwezi ezingaki?



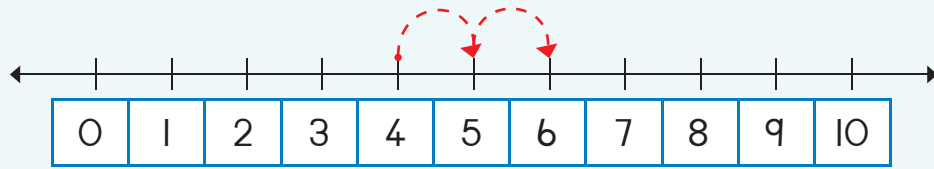
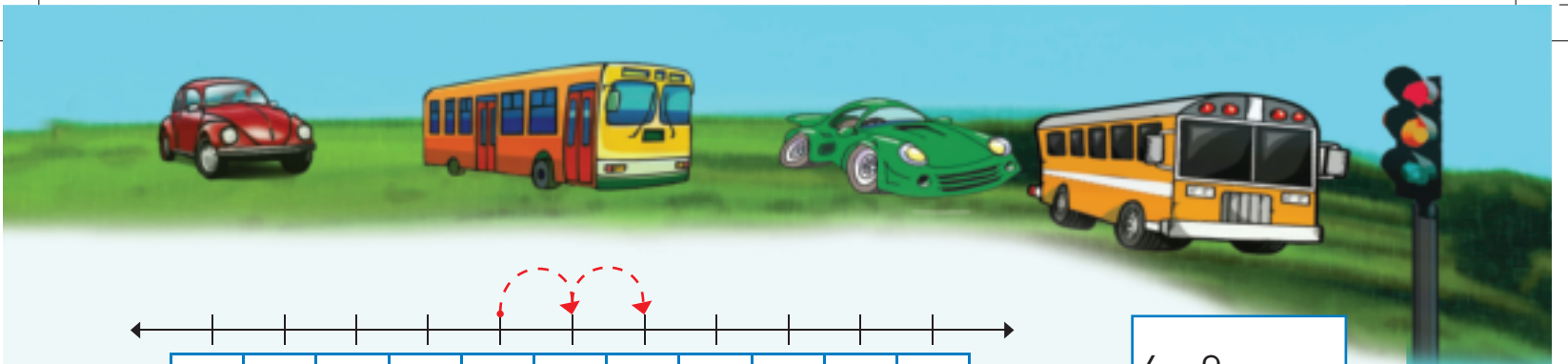
Qedelela ngeempendulo.



$$7 + 2 =$$



0 1 2 3 4 5 6 7 8 9 10



$$4 + 2 =$$



Gadangisa iinomboro.

15	15	15	15
itjhumi nahlanu			
15	15	15	15



Gwala izinto ezili -15.

Kwanje zigwale ngendlela eyahlukileko.



Qedelela ngeenomboro ezitlhayelako.

11	12	13		15	15		13	12	
----	----	----	--	----	----	--	----	----	--



Bala izinto.



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

	15	itjhumi nahlanu
		itjhumi nahlanu
15		



Inomboro encani ngakunye ku-15. \_\_\_\_\_

Inomboro ekulu ngakunye ku-15. \_\_\_\_\_



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



# Ukuhlanganisa bekufike ema - 20 – Ragela njalo phambili

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

6

sithandathu



Qalalisa isithombe bese utlola umutjho weenomboro komunye nomunye umutjho.

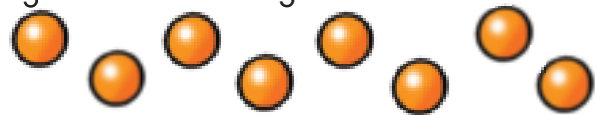
ULisa unamaswidi ama - 3. UMandla unamaswidi ama - 5. Bobabili banamaswidi amangaki?



Asibale:

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

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

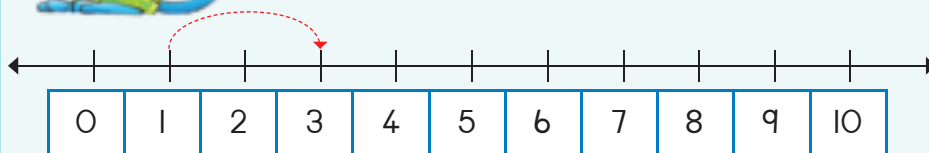


Asibale sibuyele emuva:

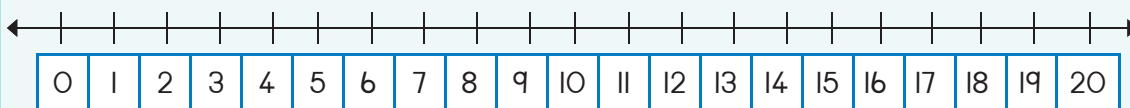
8	...	7	6	5	4
<input type="text"/>	-	<input type="text"/>	=	<input type="text"/>	



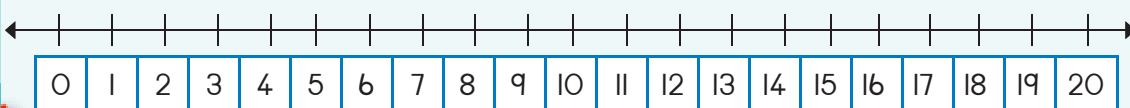
Qedelela ngependulo.



$1 + 2 = \square$



$13 + 2 = \square$

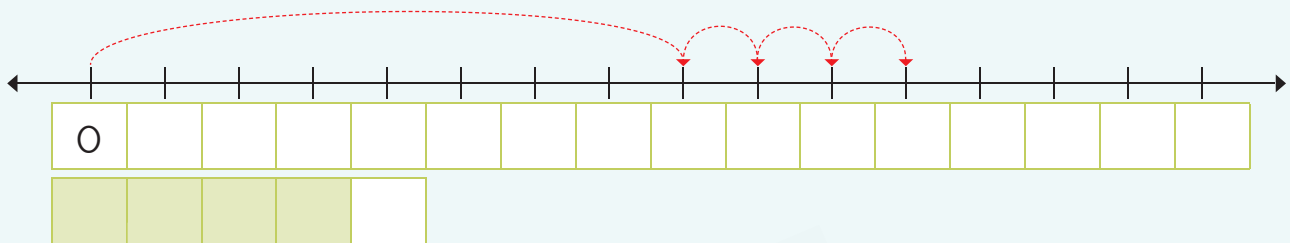
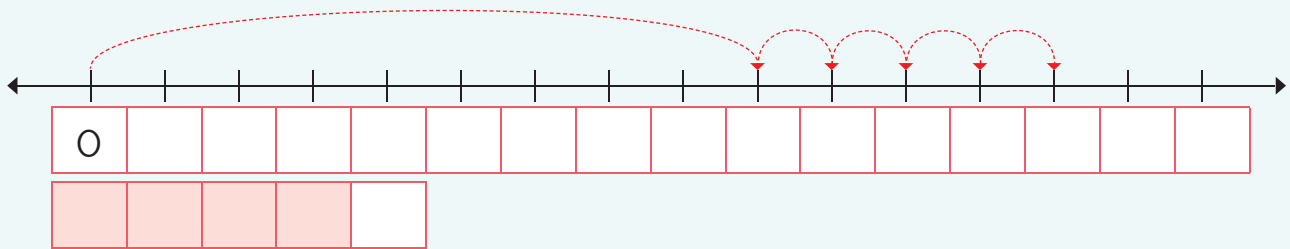
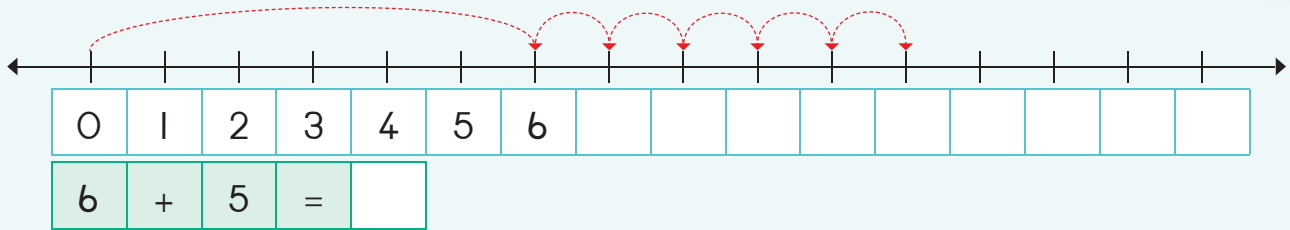


$15 + 2 = \square$





Tlola iinomboro kunambalayini bese utlola umutjho weenomboro umutjho ngamunye.



Bala ngakubili.

3	5
4	
2	



7	
8	
6	



Qedelela ngeenomboro.

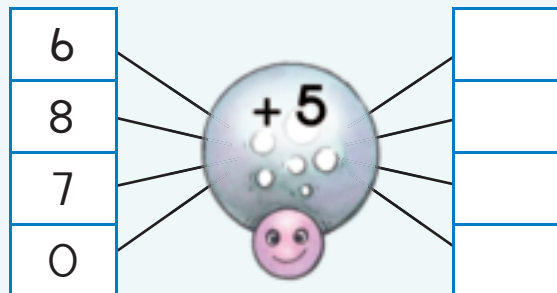
Ngineminyaka eli-7 ubudala.  
Eminyakeni emi-5 ezako, ngizabe  
ngineminyaka emingaki?

7   

Ngizabe ngineminyaka \_\_\_\_\_.



Siza isiswebu ukuqedelela isibalo.



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.

$3 + 9$



$4 + 8$



$5 + 7$



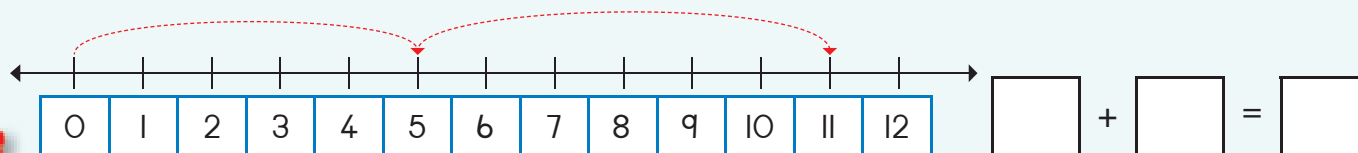
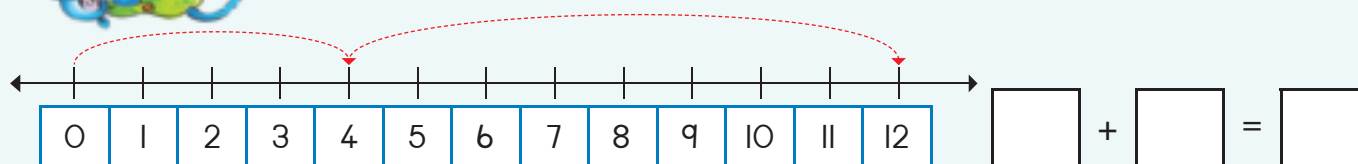
$6 + 6$



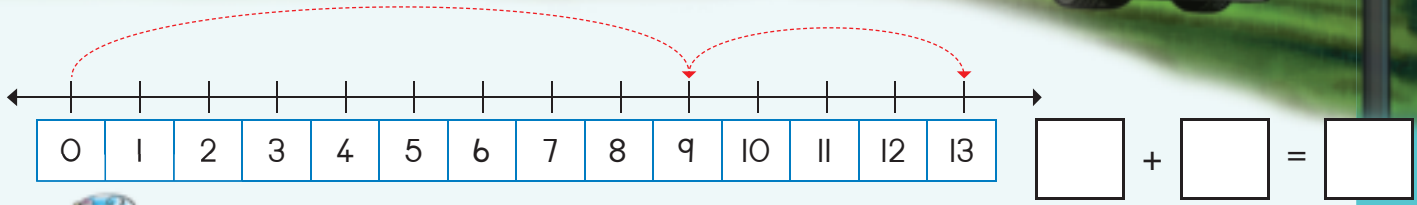
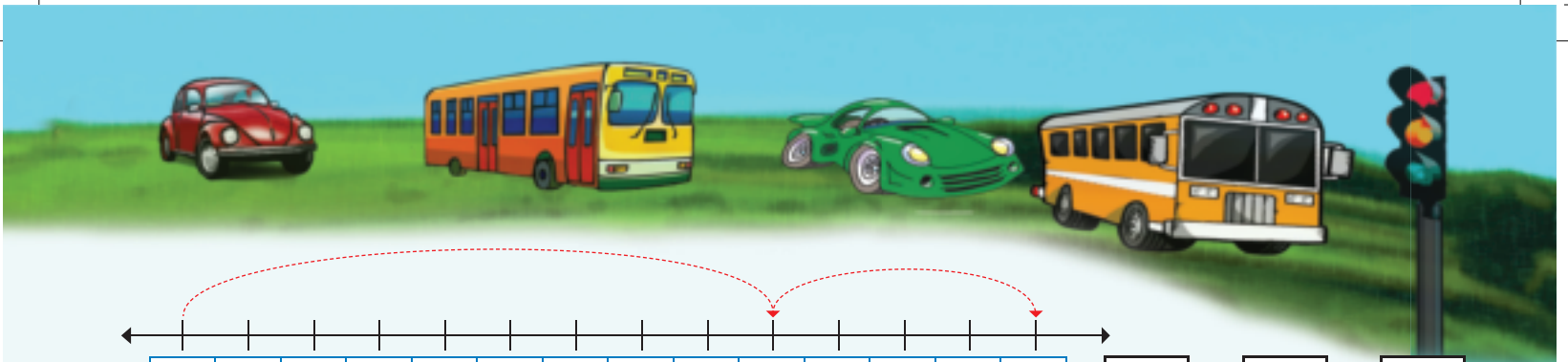
$7 + 5$



Tlola isibalo salokhu:



0 1 2 3 4 5 6 7 8 9 10



Qedelela inambalayini bese utlola ipendulo.



Rarulula isibalo esilandelako ngokuthi ugwale iinthombe.

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

[ ] + [ ] = [ ]

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

[ ] + [ ] = [ ]

Teacher:  
Sign:  
Date:

# Ukuhlanganisa – ukwakha nokuhlephula iinomboro kufika ema-20

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

8

bunane



Qedelela ngependulo.

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



Sebenzisa umbala owehlukileko wamathuthumbo ukuzakhela yakho imitjho yeenomboro.

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

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

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



Siza isiswebu ukuqedelela iimbalo.

12	+ 5	
14		
11		
9		



Ziinhliziyo ezingaki?

Zenzele isibalo sakho.

$\square + \square = \square$





Madanisa iimpara zeenomboro ukwakha iinomboro ezilandelako.

7	●	13	●	5
8	●			4
9	○			6
10	○			2
11	○			3

6	○	11	○	7
7	○			4
3	○			8
4	○			5
5	○			6

8	○	12	○	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



Teacher:  
Sign:  
Date:



# Ukuhlanganisa nokukhupha – ukwakha nokuhlephula

Ukubuyekeza:

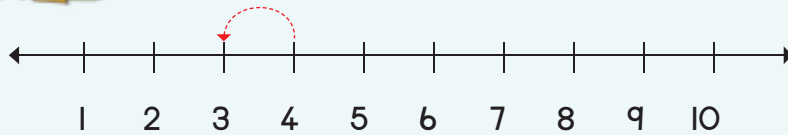
Zijayeze ukutlola ibizo lenomboro.

9

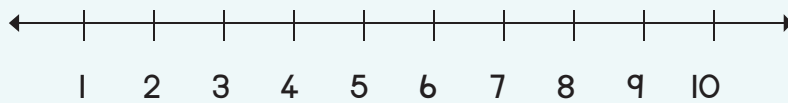
lithoba



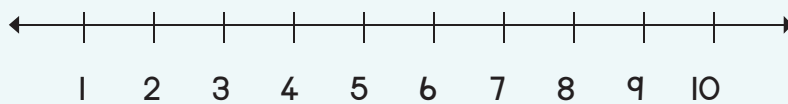
Qedelela ngependulo.



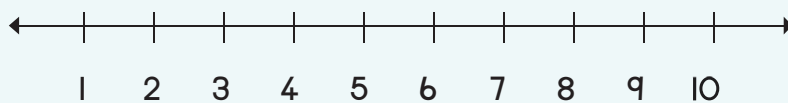
$4 - 1 = \square$



$5 - 3 = \square$



$4 - 2 = \square$



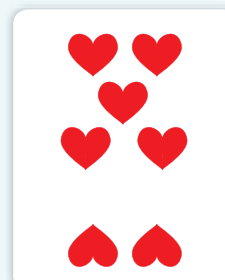
$5 - 2 = \square$



Siza isiswebu ukuqedelela iimbalo.



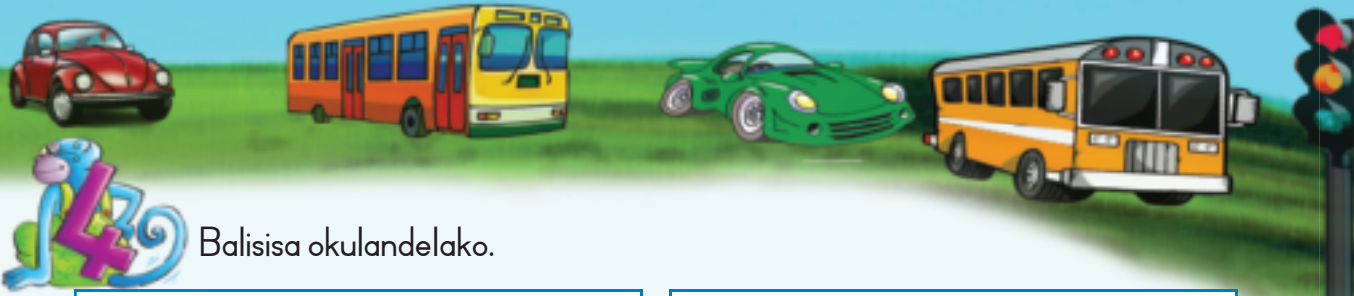
Ziinhliziy ezingaki?



Zenzele isibalo sakho.

$\square + \square = \square$





Balisisa okulandelako.

$$7 + 4 = \square$$

$$7 + 4 + 1 = \square$$

$$10 + 1 = \square$$

$$6 + 6 = \square$$

$$6 + \square + \square = \square$$

$$10 + \square = \square$$

$$13 - 6 = \square$$

$$13 - 3 + 3 = \square$$

$$10 - 3 = \square$$

$$12 - 8 = \square$$

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

$$10 - 3 = \square$$



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:

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

$14 - 5 = \square$

Ipendulo inganikelwa ngale indlela:

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

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro.

10

litjhumu

Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_



# Ubude

Ithemu 3



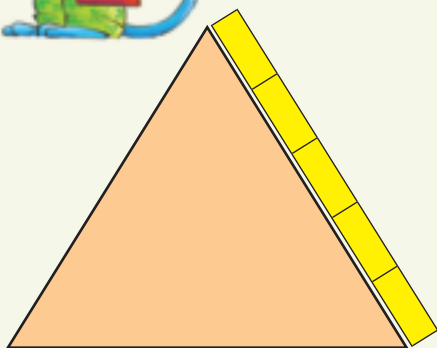
Qalisisa isithombe bese uphendula imibuzo.

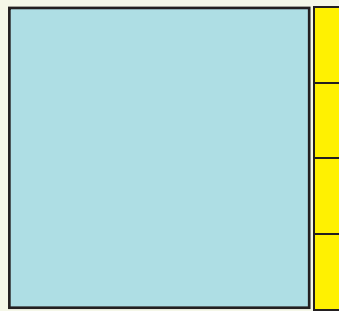
<p>UJabu</p>	<p>UPam</p>	<p>UNomsa</p>	<p>UKen</p>
--------------	-------------	---------------	-------------

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



Amahlangothi amade wamajamo amabhlogo amangaki ubude?











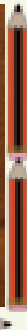
Itafula lithatha amabhlogo angangani ubude kanye nobubanzi?  
Itafula lithatha iimpensela ezingangani ubude nobubanzi?



Ububanzi bamabhlogo \_\_\_\_.



Ubude bamabhlogo \_\_\_\_.



Ububanzi bamabhlogo \_\_\_\_.

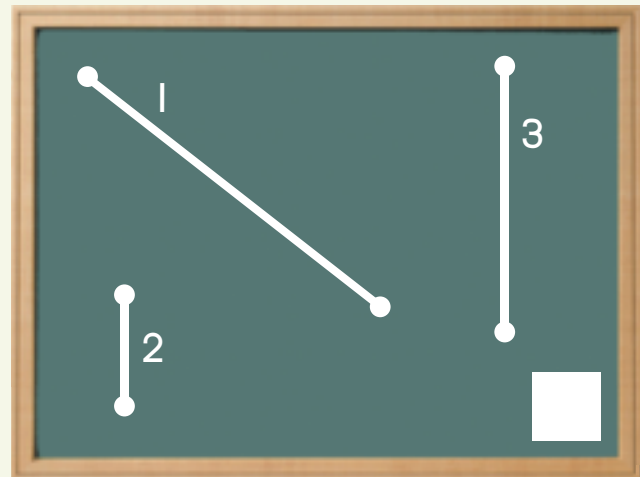
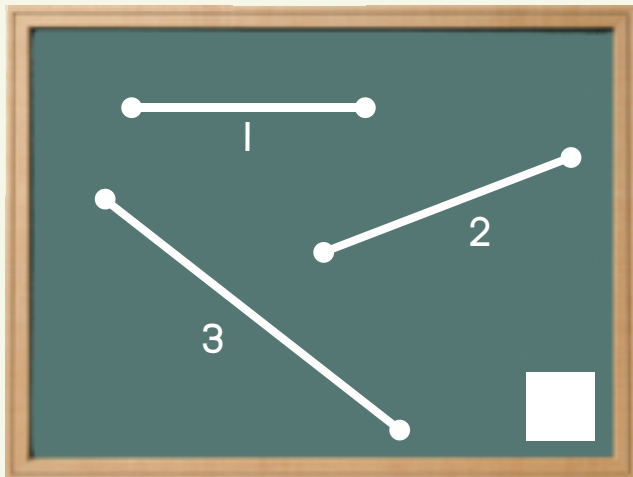


Ubude bamabhlogo \_\_\_\_.



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

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



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



# Imali netjhentjhi



Emudeni ngamunye, thika inani eliphezulu.

 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>













Thika imali yesimbi/emumuwa ezokwenza i-R10.

			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Thika imali yesimbi/emumuwa ezokwenza ama-R20.

					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Balisisa okulandelako:

$R5 + R10 =$		$R5 + R2 + R8 =$		$R10 + R10 =$	
$R3 + R10 + R2 + R2 =$		$R5 + R7 + R1 + R5 =$		$R10 + R1 + R5 + R2 =$	



Rarulula isibalo esilandelako:

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

Nginehlavu ye -R5 nehlavu ye -R1.  
Umngani wami uneenhlavu ezintathu ze mali ema -R5. Ngubani onemali enengi?



Nginemali ema -R15:

Ngibhadela      Itjhentjhi

$R4 + R7 = R11$	$R4$
$R6 + R9 =$	
$R8 + R3 =$	
$R2 + R11 =$	
$R3 + R8 =$	
$R6 + R8 =$	
$R0 + R2 =$	
$R2 + R2 =$	
$R4 + R2 =$	
$R6 + R2 =$	



Balisisa okulandelako:

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



Yenze kobana inciphe ngama -R2.

R11		R4	
R12		R6	
R10		R8	



# Imali netjhentjhi

Ithemu 3



Gwala imali yesimbi/emumuwa ukwenza:

R11	
R12	
R13	
R14	



Thika bewutlole ipendulo ekungiyi.

$R18 - R8 =$   R10

$R12 - R2 =$

$R15 - R4 =$

$R14 - R7 =$

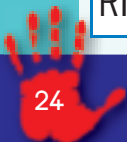


Balisisa okulandelako:

$R15 - R10 =$	<input type="text"/>
$R10 - R1 - R1 - R2 =$	<input type="text"/>

$R20 - R2 - R8 =$	<input type="text"/>
$R5 - R4 =$	<input type="text"/>

$R20 - R5 =$	<input type="text"/>
$R10 - R1 - R5 - R2 =$	<input type="text"/>



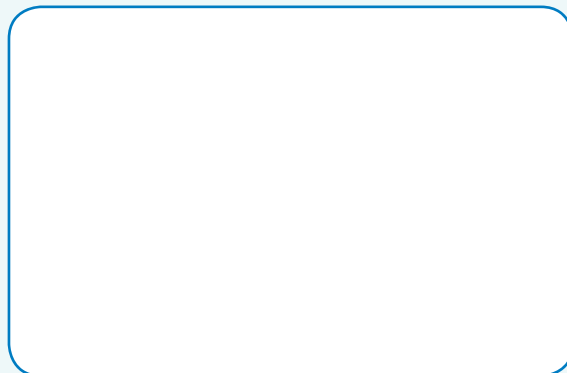


Balisisa okulandelako:

Nginemali ema -15. 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.



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

# 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:

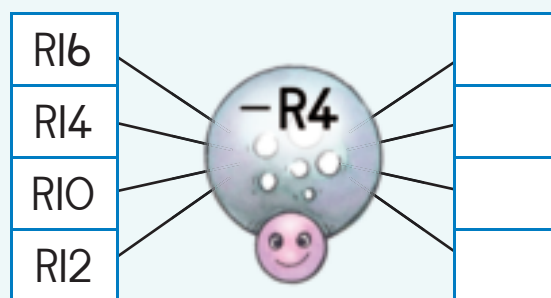
$R10 - R7 =$	
$R15 - R1 =$	
$R12 - R2 =$	
$R15 - R6 =$	

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

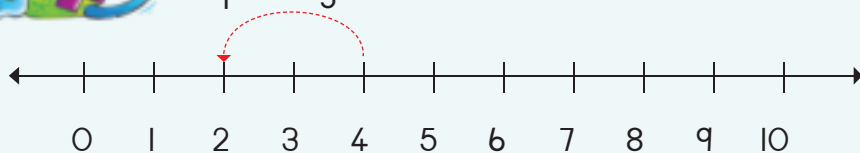
$R10 - R5 =$	
$R15 - R2 =$	
$R16 - R6 =$	
$R14 - R4 =$	



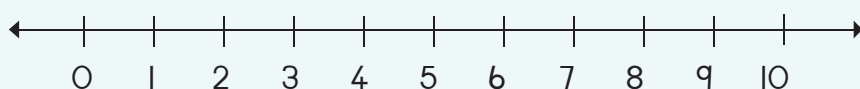
Siza isiswebu ukuqedelela iimbalo.



Nciphisa ngemali ema-R2.



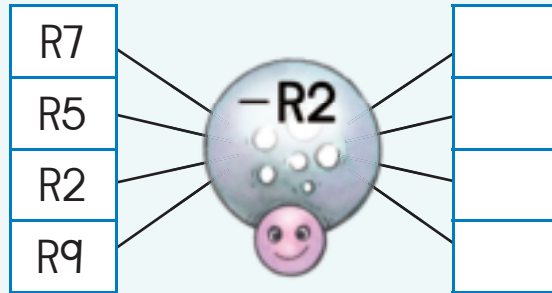
$$R4 - R2 = \boxed{\phantom{00}}$$



$$R7 - R2 = \boxed{\phantom{00}}$$



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?

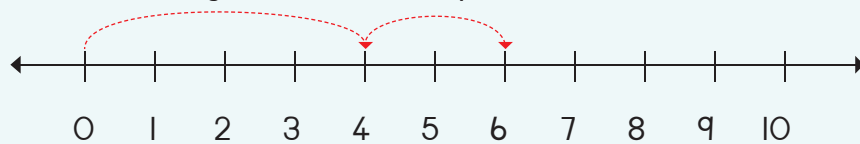


Ngibulunge imali engangani?

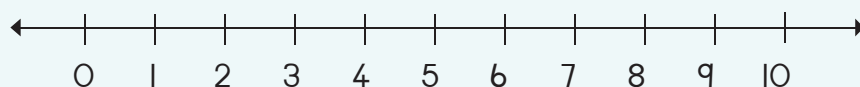


Tjengisa isibalo kunambalayini bese ubalisisa ipendulo.

$R4 + R2 =$



$R8 + R2 =$



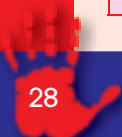
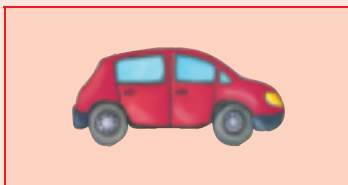
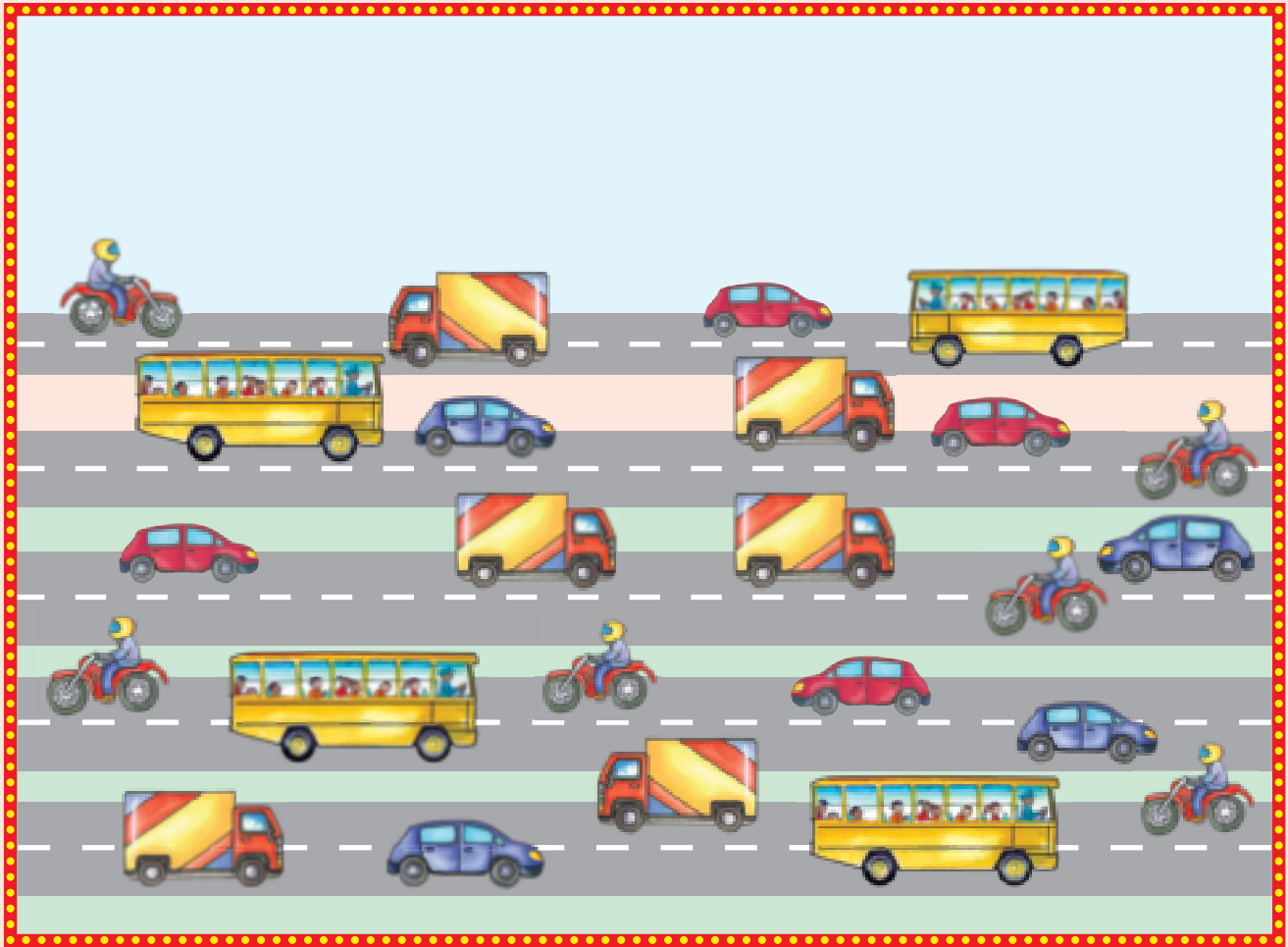
Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_



# Idatha



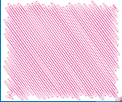











Bala kobana ubona imihlobo emingaki yeenkoloji.





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: \_\_\_\_\_

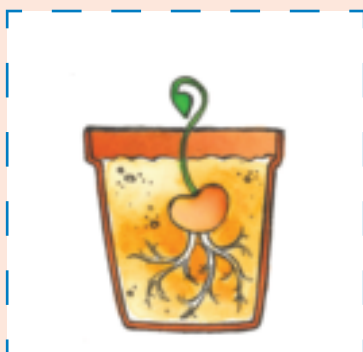
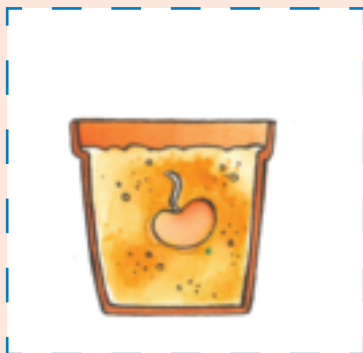
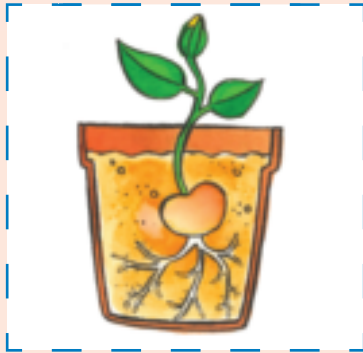


# Ilanga nesikhathi

Ithemu 3



Cocisanani ngeenthombe bese nizibeka ngendlela ezilamana ngayo.



1



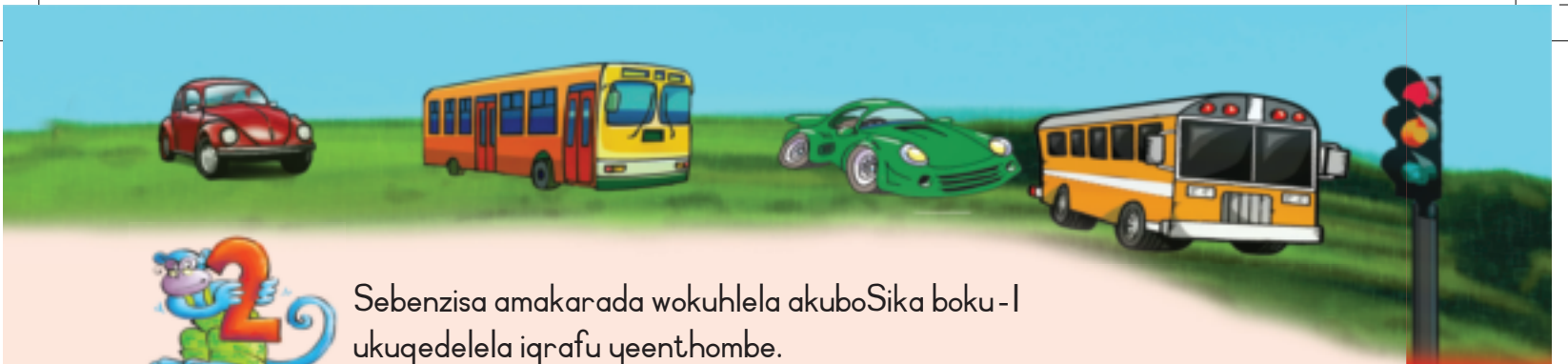
2



3



4



Sebenzisa amakarada wokuhlela akuboSika boku-I  
ukuqedelela igravu 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.

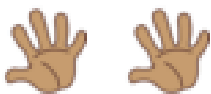
Ungenza amabuthhelelo wangaku-5 amangaki?



Ibuthhelelo elilodwa langaku-5 lenza oku-5



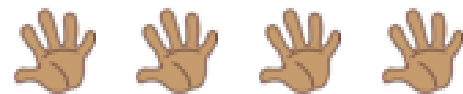
Bala imino bese utlola ipendulo.



$$5 + 5 =$$

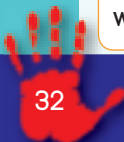


$$5 + 5 + 5 =$$



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

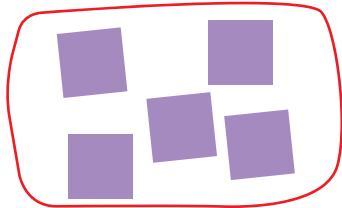
Amabuthhelelo amabili wangakuhlano enza i-10



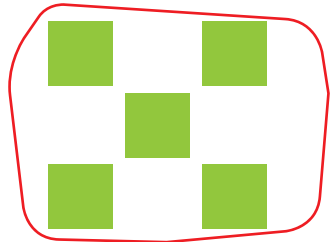


Gwala iiyingi undulungele okulandelako ukwenza:

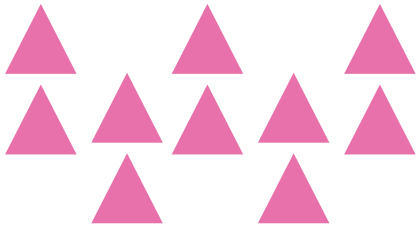
Ibuthelelo elilodwa langaku-5 lenza oku-5



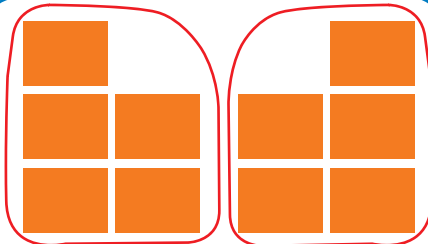
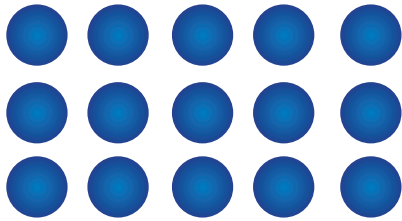
Tlola imitjho yeenomboro yalokhu okulandelako:



Amabuthhelelo ama-2 wangaku-5



Amabuthhelelo ama-3 wangaku-5



Ungabeka amabuthhelelo wangakuhlano 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

Ukubuyekeza:

Ukubuyekeza: Qedelela ngeenomboro ezitlhayelako.



Mazwani amangaki nanyana mimino emingaki? Tlola umutjho weenomboro.






Ibuthelelo lamabhanana amahlanu

Amabuthhelelo amabili wamabhanana  
ibuthelelo ngalinye

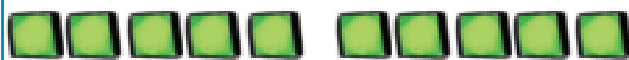
Gwala:

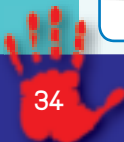


Gwala amajamo wokulandelako.

$$5 + 5 = 10$$

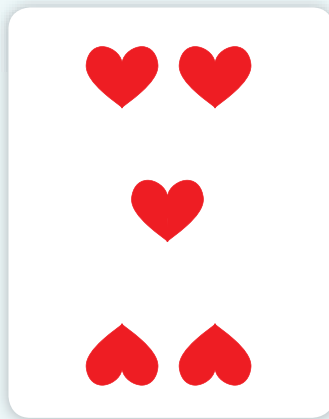
$$5 + 5 + 5 = \square$$

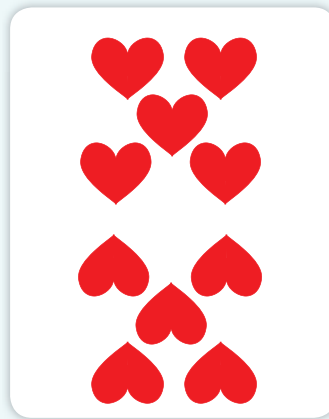






Ndulungela bewubale kobana ungabeka amabuthhelelo wangakuhlano amangaki keliyine elinye ikarada.







Tlola umutjho weenomboro walokhu:

○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



Sebenzisa imibala eyahlukeneko ukutjengisa iinomboro ozoyisebenzisa ukubeka amabuthhelelo wangakuhlano.

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



Ungabeka amabuthhelelo wangakuhlano 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: \_\_\_\_\_





## Ngakuhlani bekufike e-15



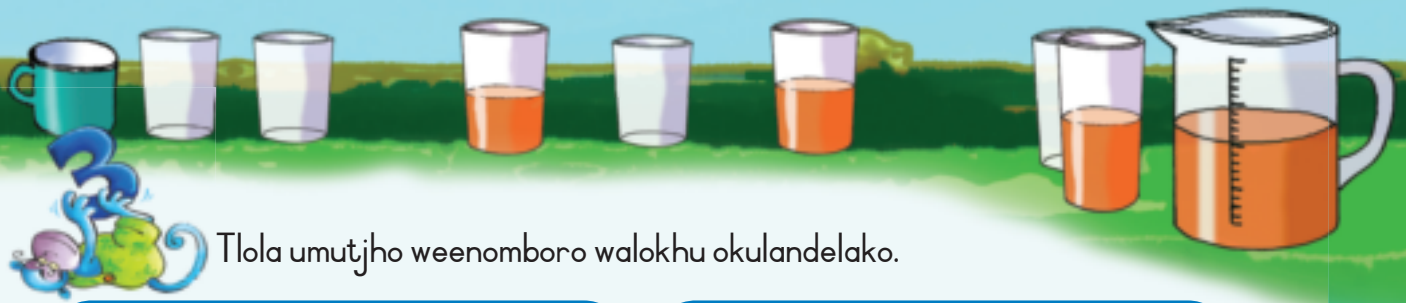
Tlola iinomboro ezitlhayelako.

I		3		5		7	8	9	
II	12								



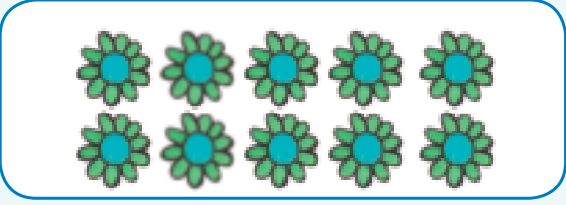
Beka amabuthhelelo wangakuhlani. Unomabhonjwana ngamunye umele abe namacaphazi amahlani ephikweni ngalinye. Gwala amacaphazi atlhayelako.

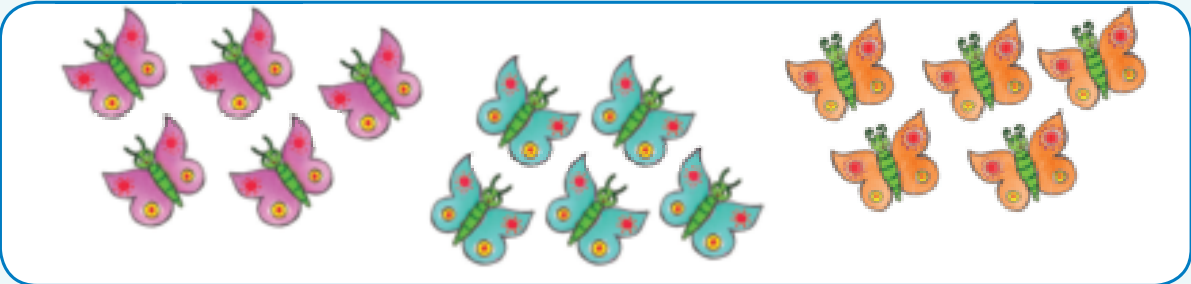




Tlola umutjho weenomboro walokhu okulandelako.









Balisisa okulandelako:

$0 + 5 = \square$

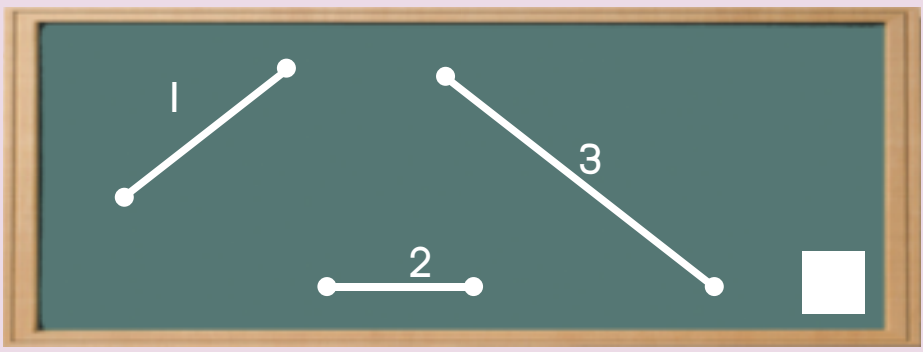
$5 + 5 + 5 = \square$

$5 + 5 = \square$

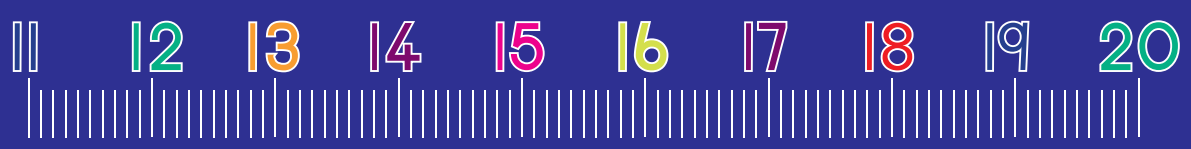
$5 + 5 + 5 + 5 = \square$

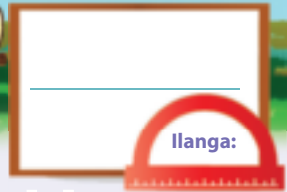
Ukubuyekeza:

Ukubuyekeza: Ngiwuphi umuda omude?



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_





# Amaphetheni weenomboro zangakuhlano bekufike ema - 50

Ithemu 3

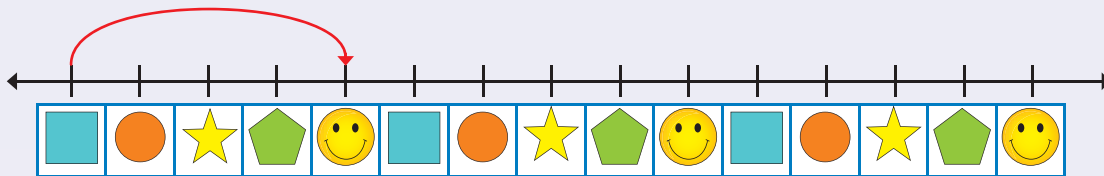


Qedelela iphetheni yangakuhlano ngokukhalara phezu kweenomboro.

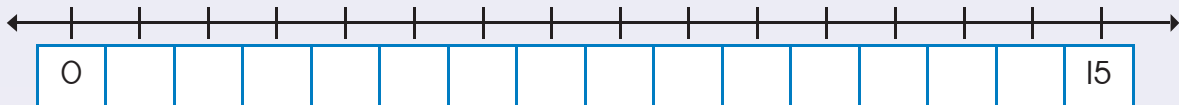
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Gwala amawulawubhu ukutjengisa amabuthhelelo wangakuhlano.

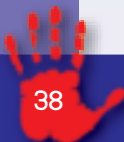
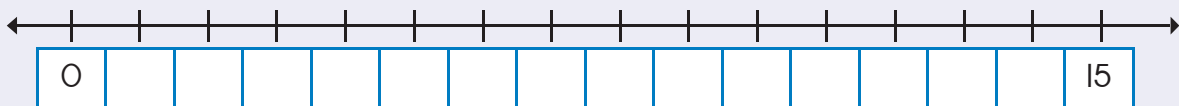


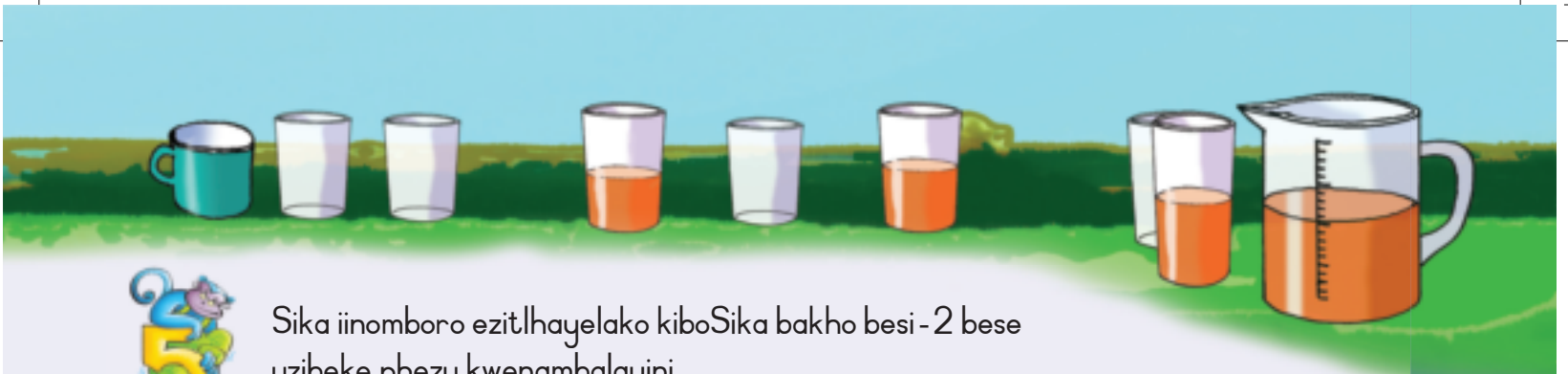
Qedelela ngeenomboro ezitlhayelako bese ugwala amawulawubhu ukutjengisa amabuthhelelo wangakuhlano.



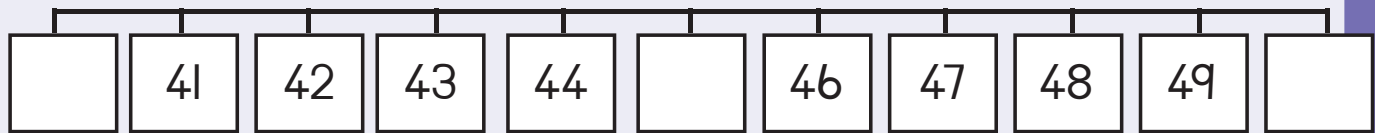
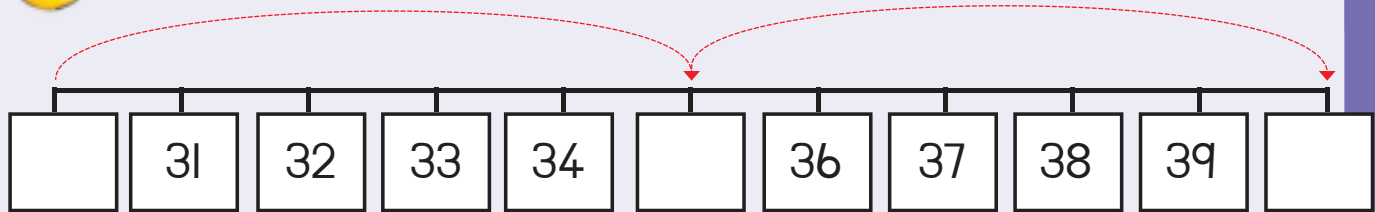
Qedelela inambalayini. Gwala amawulawubhu ukutjengisa amabuthhelelo wangakuhlano.

Kunamabuthhelelo  wangakuhlano.



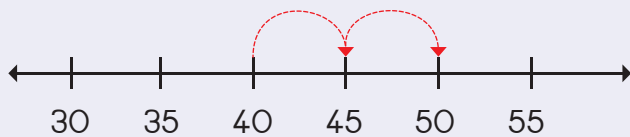


Sika iinomboro ezitlhayelako kiboSika bakho besi -2 bese uzibeke phezu kwenambalayini.

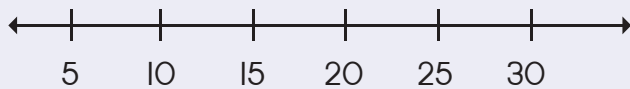


Gwala amawulawubhu ukutjengisa okulandelako:

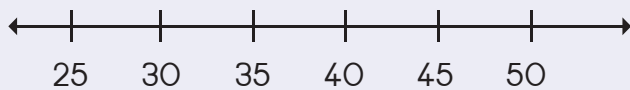
40, 45, 50



10, 15, 20

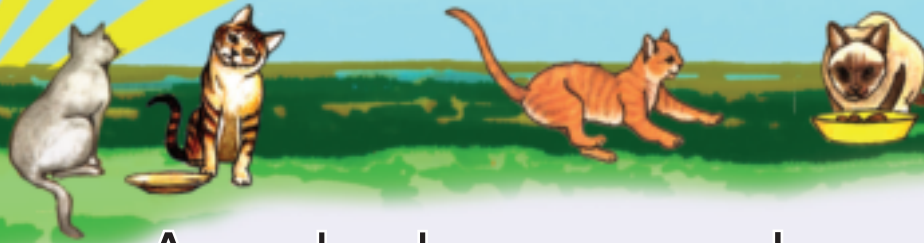


25, 30, 35



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_





Ilanga: \_\_\_\_\_

# Amaphetheni weenomboro

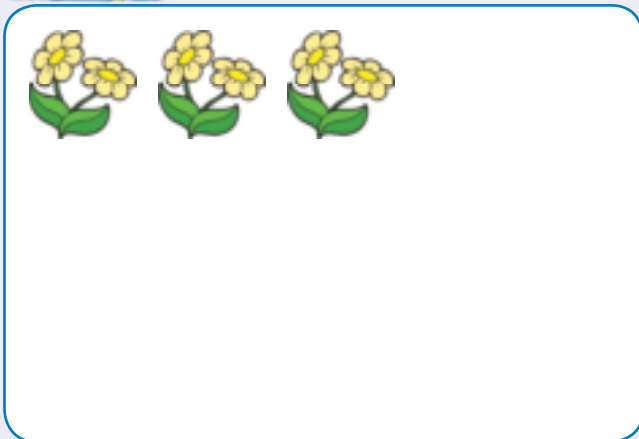
Ithemu 3



Esithombeni, ubona amabuthelalo wangakuhlano amangaki?

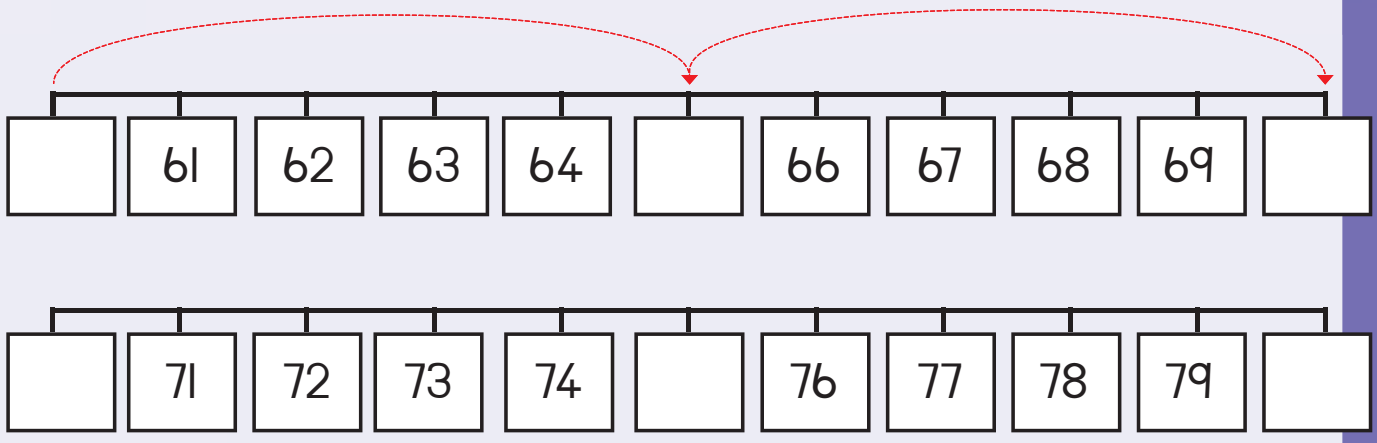


Qedelela iinthombe ezilandelako ukutjengisa amabuthelalo amabili wangakuhlano ebhlogweni ngalinye.



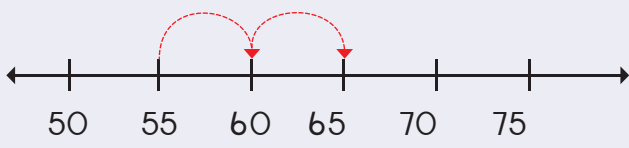


Sika iinomboro ezitlhayelako kiboSika besi -2 bese uzibeka enambalayinini.

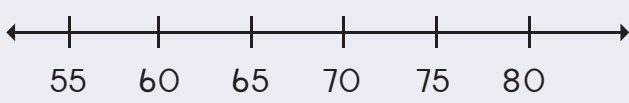


Gwala amawulawubhu ukutjengisa okulandelako:

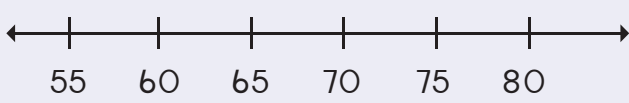
55, 60, 65



65, 70, 75



70, 75, 80



Teacher:  
Sign:  
Date:





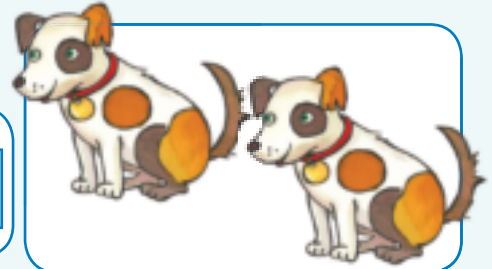
## Ukubuyelela kabili



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 =















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

Qedelela okulandelako:

<p>Ubona amavili amangaki?</p>  <input type="text"/>	<p>Kwanje ubona amavili amangaki?</p>  <input type="text"/>	<p>Kunamaqanda amangaki ekhathunini?</p>  <input type="text"/>	<p>Kwanje sekunamaqanda amangaki?</p>  <input type="text"/>
---	--	--	--



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:

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



Qedelela okulandelako:

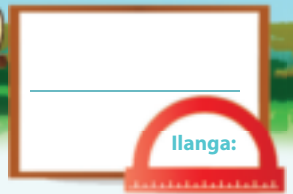
$2 + 2 + 1 =$	5	nanyana	Ukubuyelela kabili $2 + 1 = 5$
$4 + 4 + 1 =$		nanyana	
$7 + 7 + 1 =$		nanyana	

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 = <input type="text"/>		Ihafu yaka - 8 = <input type="text"/>
	Ihafu yaka - 4 = <input type="text"/>		Ihafu yaka - 10 = <input type="text"/>
	Ihafu yaka - 6 = <input type="text"/>		



Kuneehlambi ezingaki?













Ihafu yeenhlambi ilingana?





Bala amacaphazi bese uwahafule.

	2	ihafu →		<input type="text" value="1"/>
	4	ihafu →		<input type="text"/>
	6	ihafu →		<input type="text"/>
	8	ihafu →		<input type="text"/>
	10	ihafu →		<input type="text"/>



Hafula iinomboro.

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



Kuneembungu ezingaki?



Ihafu yeembungu ilingana na -:



Phendula okulandelako:

Kuneenyawo ezingaki?



Kwanje kuneenyawo ezingaki?



Sithi ihafu yaka-8 ilingana



Teacher:  
Sign:  
Date:

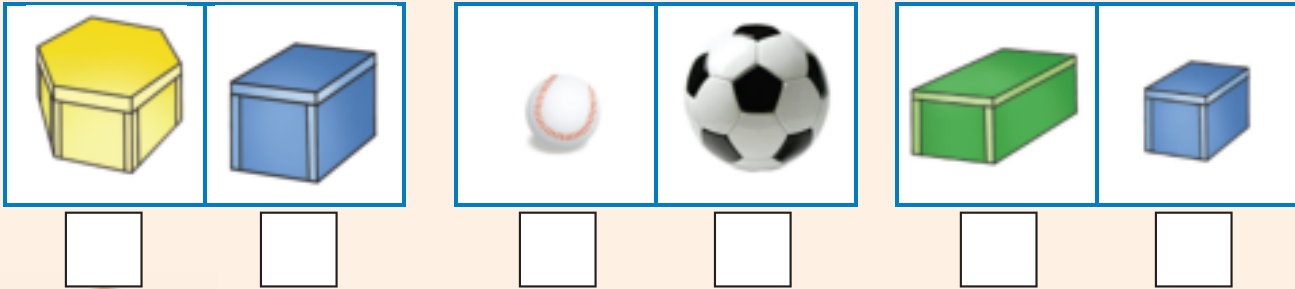




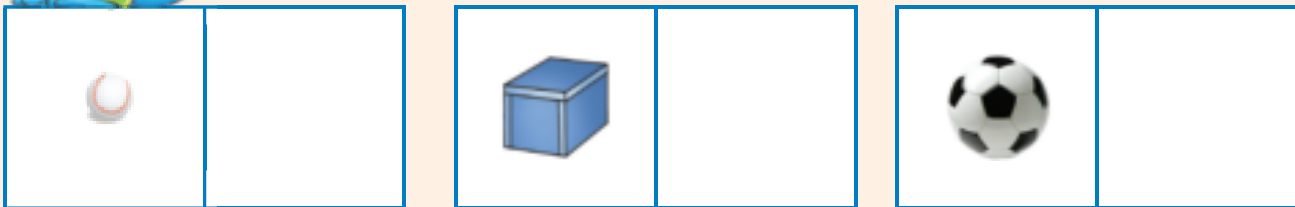
## Izinto ezima - 3D



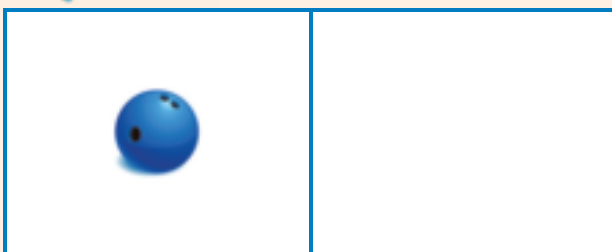
Thika into encani khulu.



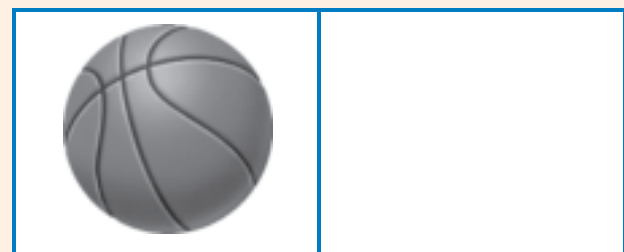
Gwala into ekulu ngesandleni sokudla sesithombe esinye nesinye.



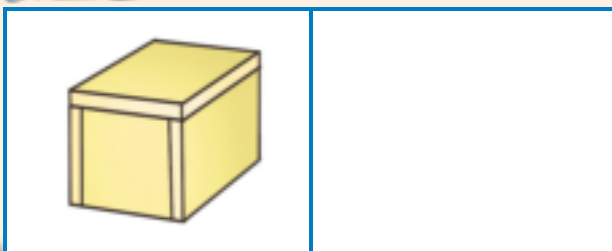
Gwala ibholo ekulu khulu bese ulandelise ngebholo ehlaza sasibhakabhaka.



Gwala ibholo encani kubeyibholo esamlotha.



Gwala ibhoksi elincani kunebhoksi elisarulani.



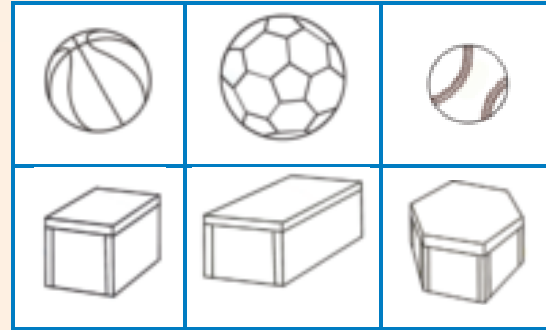
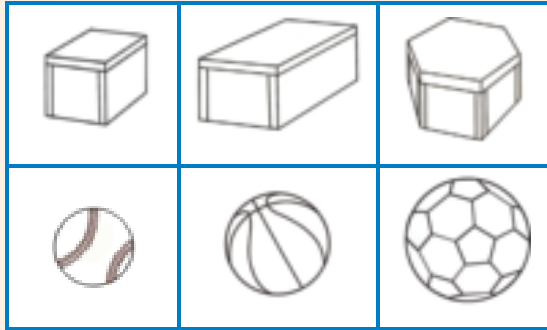
Gwala ibhoksi elikhulu kunebhoksi elihlaza satjani.





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: \_\_\_\_\_





Ilanga: \_\_\_\_\_

# Izinto ezima - 3D – Ukutjhelela nokugedeka

Ithemu 3



Ingabe izinto ezilandelako zizokugedeka nanyana zizokutjhelela?  
Khalara ipendulo ekungiyi.



ukugedeka

ukutjhelela



ukugedeka

ukutjhelela



ukugedeka

ukutjhelela

ukugedeka

ukutjhelela



Ingabe okulandelako kungenzeka?  
Khalara ipendulo enembako.



iye

awa



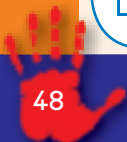
iye

awa



iye

awa





Hlela izinto ezilandelako ngokuthi uzigwale ngaphakathi kwebhlogo elinembako.

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



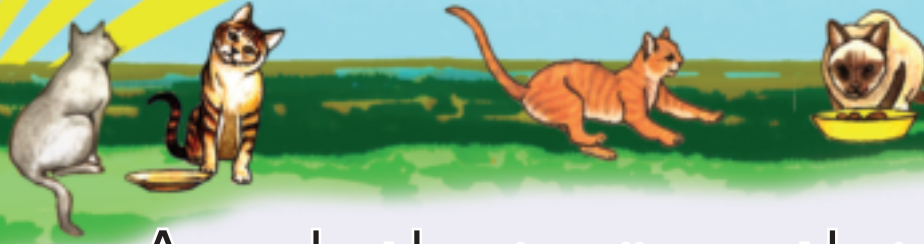
Hlela izinto ezilandelako ukuya ngobukhulu bazo bewuzigwale.

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



Teacher:  
Sign:  
Date:





Ilanga:

# Amaphetheni wejiyomethri

Ukubuyekeza:

Gwala okulandelako:

Isiyingi

Isikwere

Uncane/irekthengela



Qedelela amaphetheni.

■	■	●	■	■	●			
▲	■	■				▲	■	■
●	▲	●	▲	●	▲			
●	●	●	■					
●	◆	■	▼					



Yenza umgwalo uqedelele iphetheni.




Cwala amaphetheni ekungewakho.



Namathisela iinthombe ukwenza iphetheni ekungeyakho.



Qedelela iphetheni elandelako:

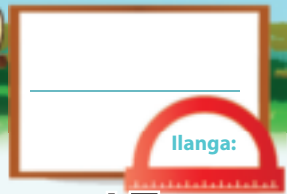
A	B	C	A	B	C				A	B	C
---	---	---	---	---	---	--	--	--	---	---	---

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

90



# Amabuthhelelo wangakubili bekufike e-15

Ithemu 3



Tlola ibizo lenomboro ejanyelwe litshwayo.

2

kubili



Phendula imibuzo.



Ubona amaphengwini amangaki?

Ubona iimpara zeenyawo ezingaki?

Tlola ipendulo yakho njengenomboro.



Phendula imibuzo.



Ubona iincwadi ezingaki?

Ungenza amabuthhelelo wangakubili amangaki?

Tlola ipendulo njengomutjho weenomboro.



Tlola ibizo lenomboro ejanyelwe litshwayo.

4



Bala iimpiko, bese uqedelela ngependulo.



$2 + 2 =$



$2 + 2 + 2 =$



$2 + 2 + 2 + 2 =$

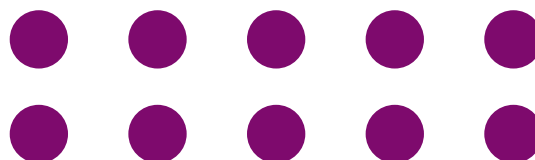


Gwala iiyingi undulungele okulandelako ukubeka:

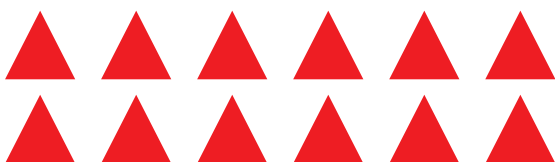
Amabuthhelelo ama-4 wangaku-2



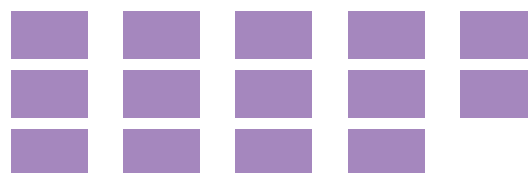
Amabuthhelelo ama-5 wangaku-2



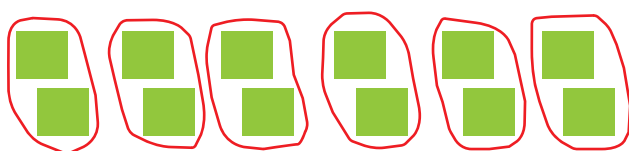
Amabuthhelelo asi-6 wangaku-2



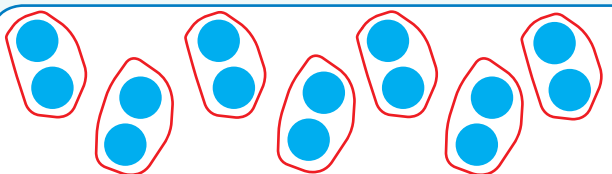
Amabuthhelelo ali-7 wangaku-2

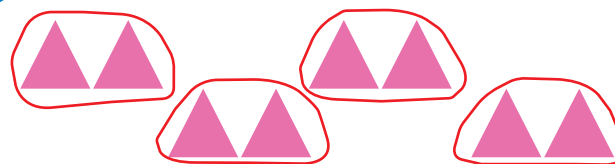


Tlola umutjho weenomboro walokhu okulandelako:











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: \_\_\_\_\_

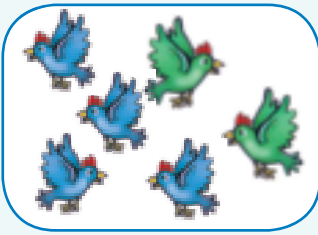
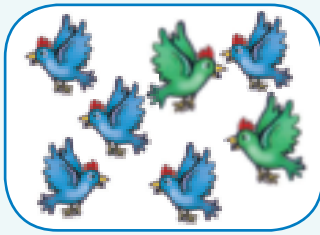




# Ukuhlanganisa okubuyelelwe kabili bekufike e-15



Ubona imilenze emingaki?

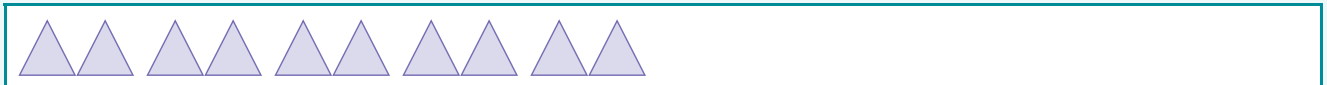


Ubale njani?



Gwala amajamo ukutjengisa okulandelako:

$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$




$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$

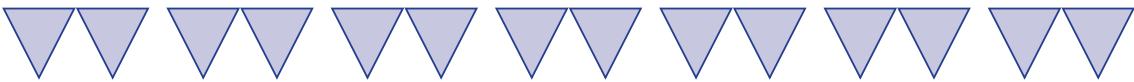
$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$

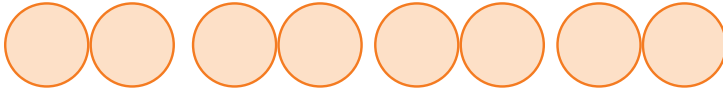
$$\boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{2} = \boxed{\phantom{00}}$$

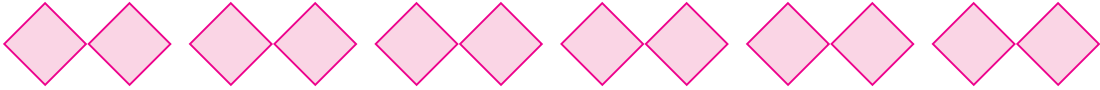


Tlola umutjho weenomboro walokhu okulandelako:


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












Ndulungela bewubale kobana mabuthelalo amangaki wangakubili ongawabeka ekaradeni ngalinye.

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



Qedelela iphetheni yeenomboro ukwenza amabuthelalo 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

Ithemu 3



Tlola inomboro etlhayelako.



Beka amabuthelelo wangakubili.  
Ndulungela elinye nelinye ibuthelelo langakubili.

Kunamabuthelelo wama-apula amangaki?

Umntwana ngamunye uzokufunyana ama-apula amangaki?

Kunamabuthelelo wamaswidi amangaki?

Umntwana ngamunye uzokufunyana amaswidi amangaki?

Kunamabuthelelo wamamabula amangaki?

Umntwana ngamunye uzokufunyana amamabula amangaki?

Kunamabuthelelo wamamabula amangaki?

Umntwana ngamunye uzokufunyana amamabula amangaki?





Tlola inomboro etlhayelako.

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



Tlola umutjho weenomboro usebenzise abo-2.

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



Balisisa okulandelako:

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



Ndulungela amabuthelalo wangaku-2 emudeni ngamunye.



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



# Amaphepheni wangaku - 2 ukufika ema - 50

Ithemu 3



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



Qedelela iphepheni ngokuthi ukhalare iinomboro ekungizo.

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



Gwala amawulawubhu ukutjengisa okulandelako:

30, 32, 34

28 30 32 34 36 38

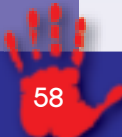
40, 42, 44

38 40 42 44 46 48

46, 48, 50

40 42 44 46 48 50

39	49
37	47
35	45
33	43
31	41
30	40





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



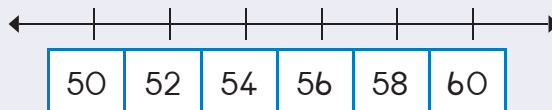
Qedelela iphetheni ngokuthi ukhalare iinomboro ekungizo.

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

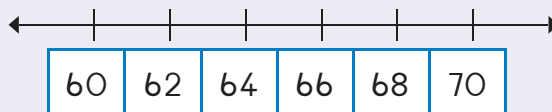


Gwala amawulawubhu ukutjengisa okulandelako:

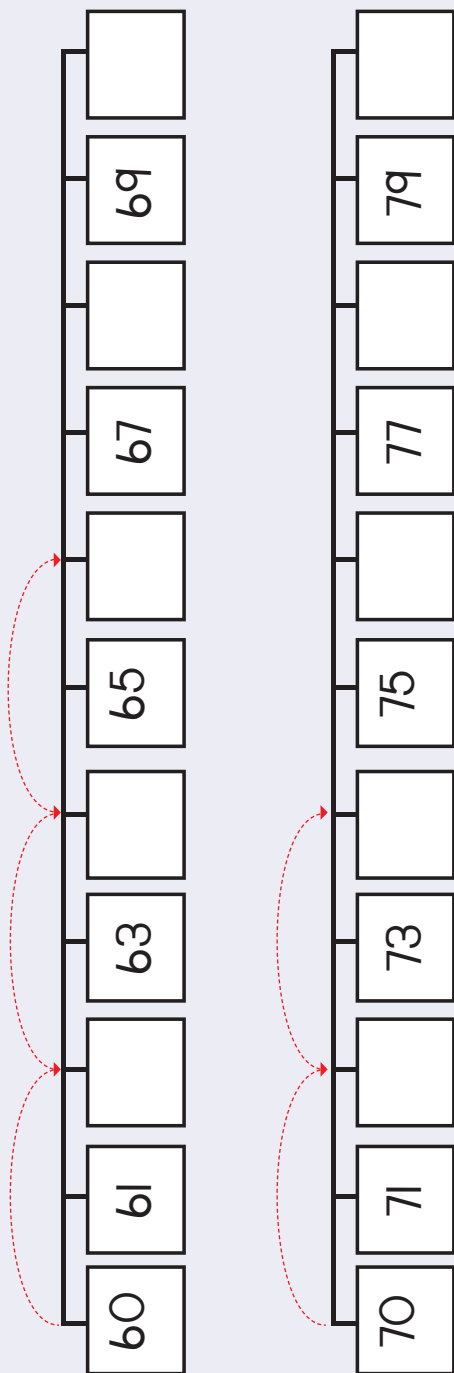
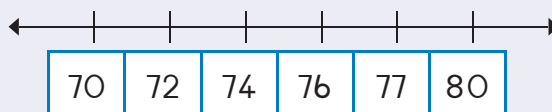
54, 56, 58



64, 66, 68

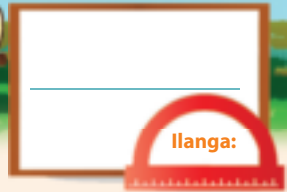


72, 74, 76



Teacher:  
Sign:  
Date:



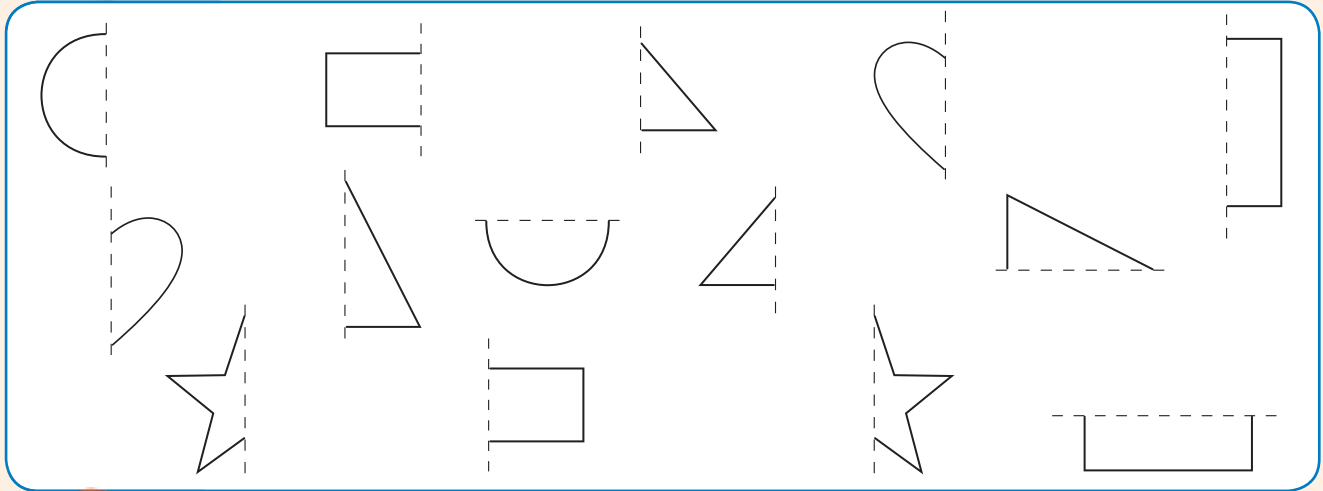


# Ukubandeka - bulingana/Isimethri

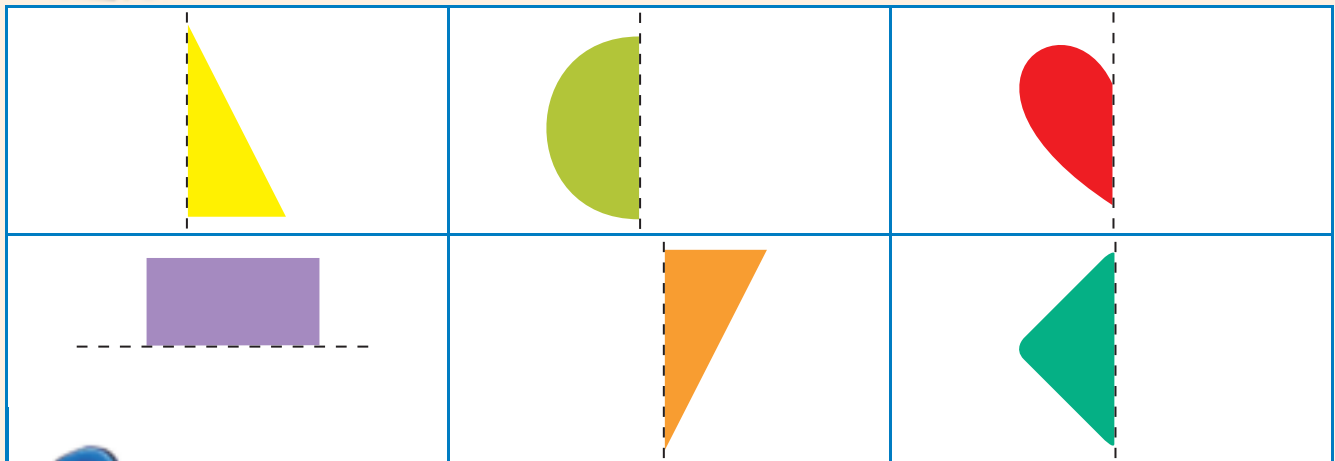
Ithemu 3



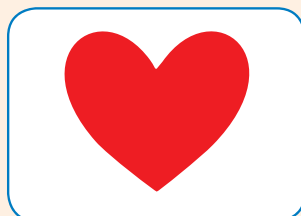
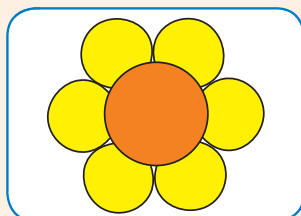
Khalara amahlangothi amabili alinganako wamajamo azokwenza ijamo elilodwa.

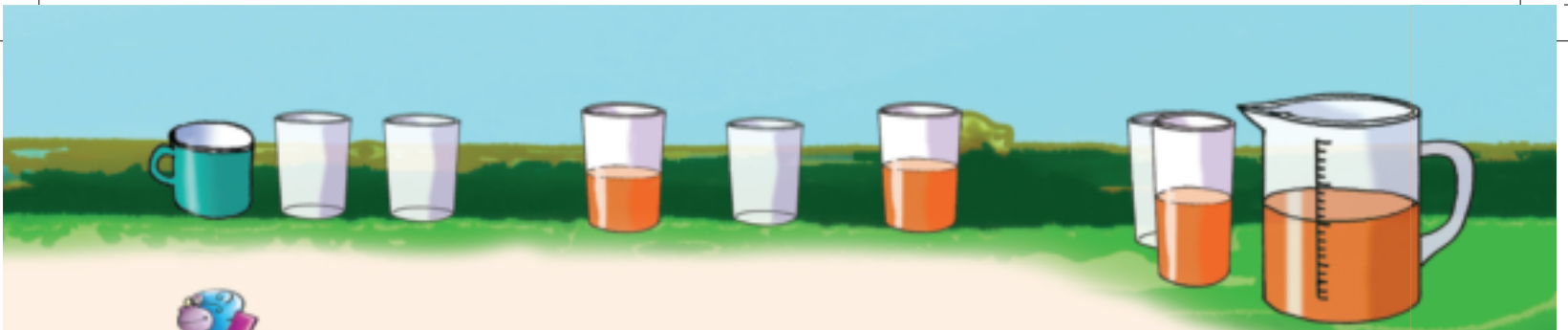


Gwala enye ihafu bese uyayikhalarara.

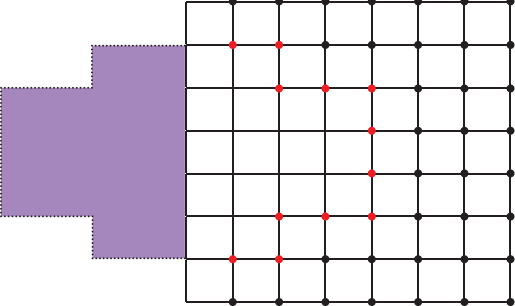
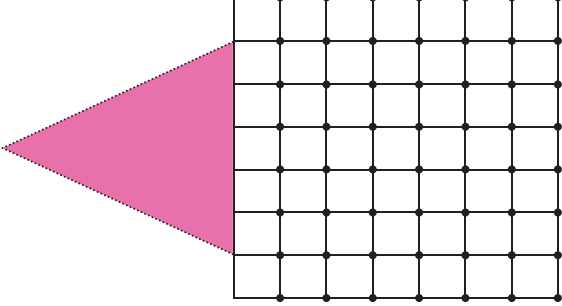
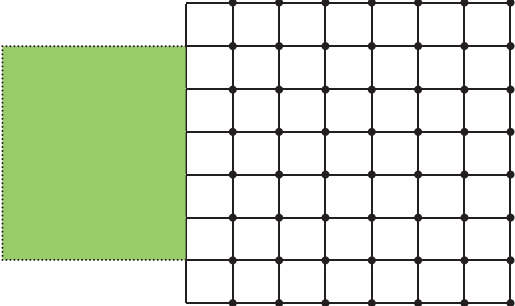
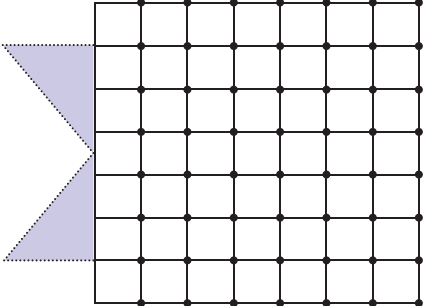
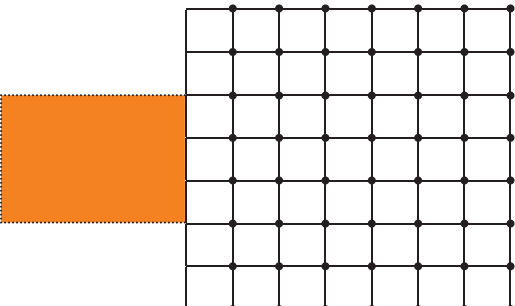
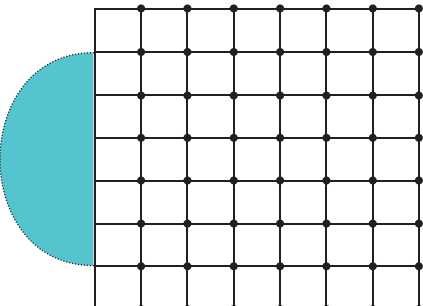


Gwala umuda ukwehlukana iinthombe ezilandelako zibe namahlangothi amabili azokubonakala afana patsi.



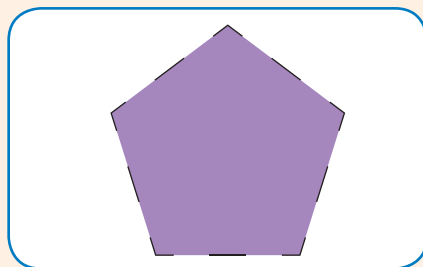
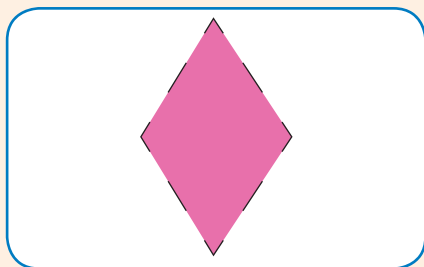
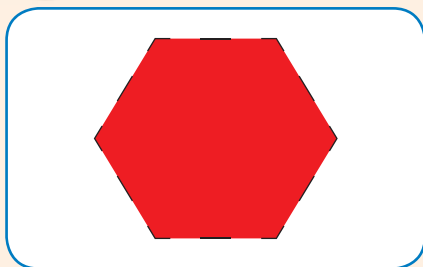


Gwala enye ihafu yejamo usebenzise ibhodo yegridi ukuze ikuhlahle.

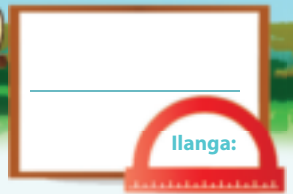


Gwala umuda ukwehlukanisa iinthombe ezilandelako zibe namahlangothi amabili azokubonakala afana patsi.



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_





# Iinomboro nobukhulu bedijidi



Ukutlola iinomboro ezitlhayelako.

10	11				15
9	10				



Ukutlola iinomboro ezitlhayelako.

←									→
6	7			10	11				15
←									→
15	14				10				6

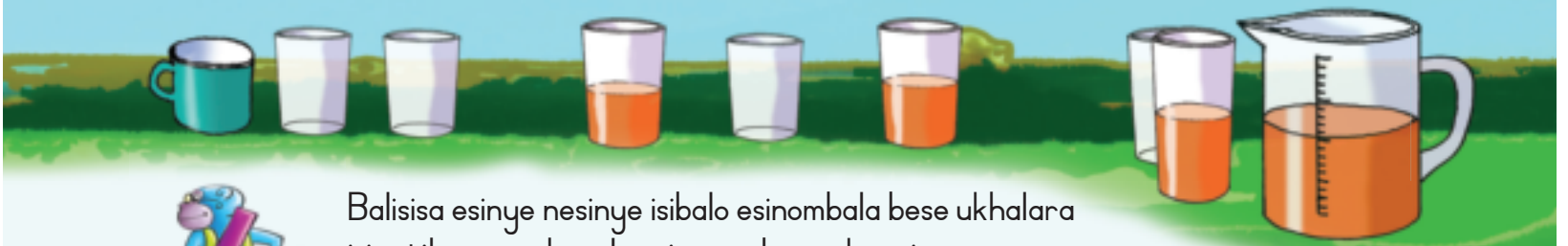


Tlola ipendulo.

$10 + 1 =$	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



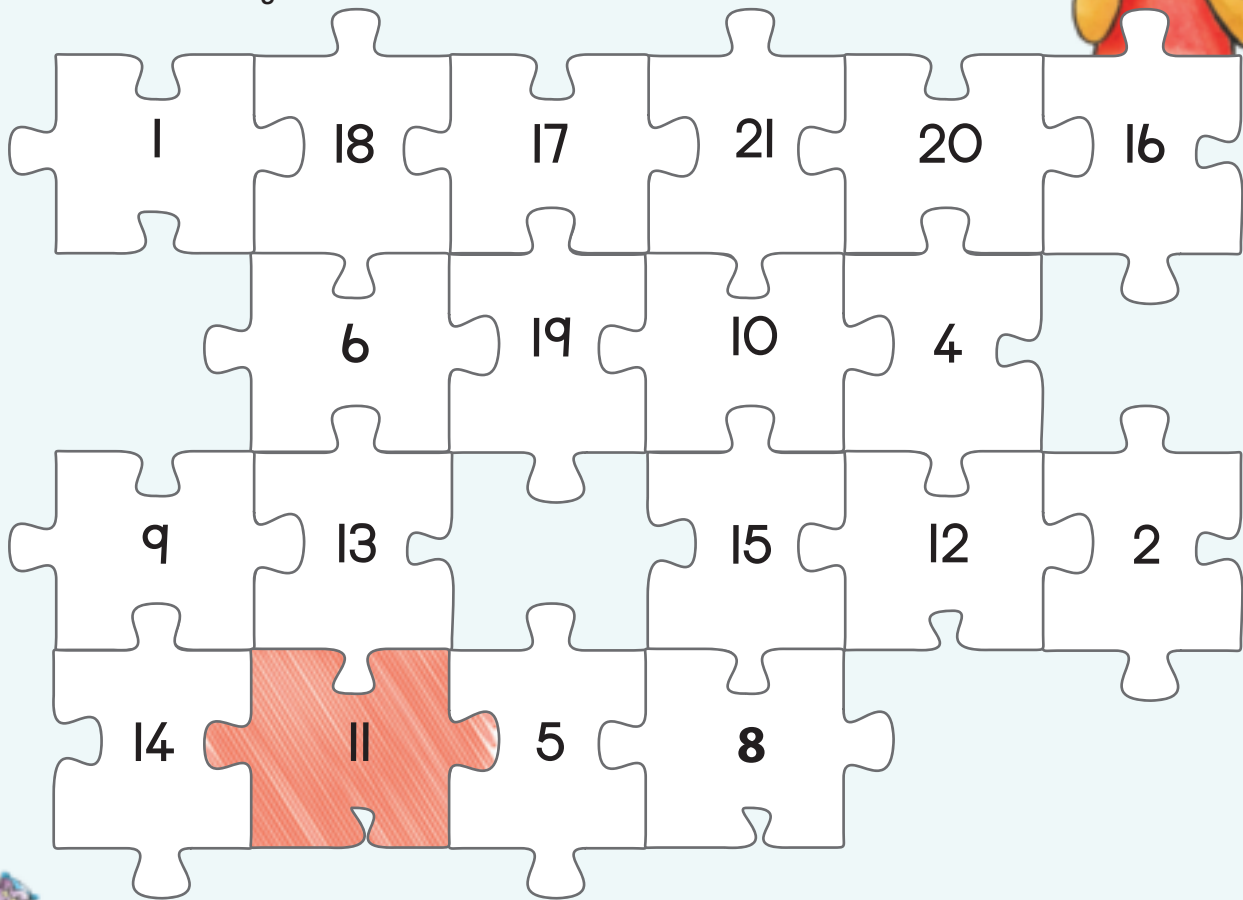
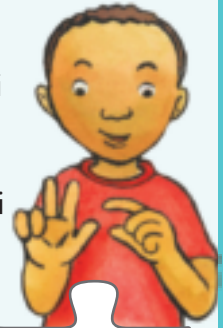
10 + 4 ngombala osarulani



10 + 0 ngombala ohlaza satjani



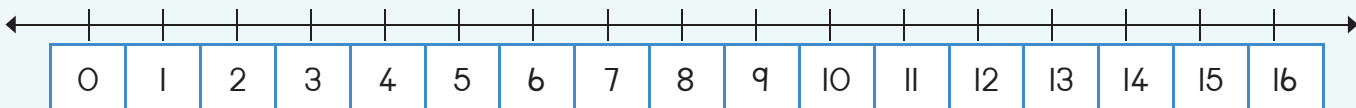
10 + 2 ngombala o-orentji



Tjengisa itjhumi nakune enambalayinini.



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



11 12 13 14 15 16 17 18 19 20





# Ubude



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



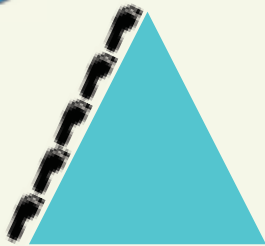
Ububanzi betafula buthatha izandla ezingaki?

Ubude zizandla \_\_\_\_\_.

Ububanzi zizandla \_\_\_\_\_.



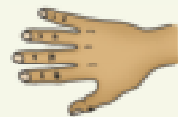
Magadango amangaki weenyawo enza ihlangothi?







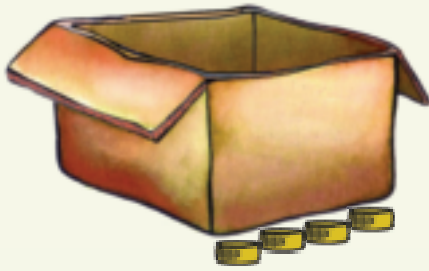
Qedelela ngependulo.



Ubude zizandla \_\_\_\_\_.



Yini ubude kanye nobubanzi bebhoksi?

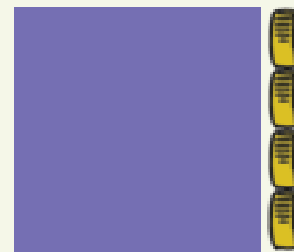
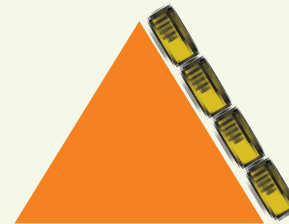


Ubude bulingana neemvalo  
zamabhodlelo \_\_\_\_\_.

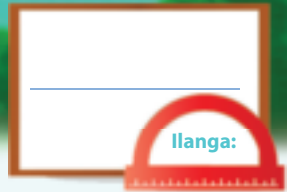
Ububanzi bulingana neemvalo  
zamabhodlelo \_\_\_\_\_.



Ubude behlangothi bulingana neemvalo zamabhodlelo ezingaki?



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_



# Inomboro ye -16

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

7

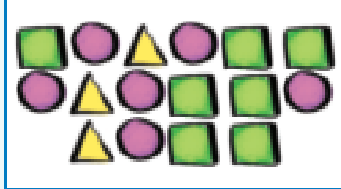
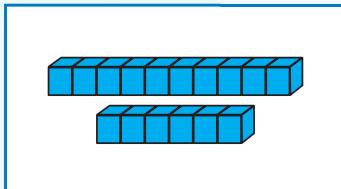
khomba



Madanisa iinthombe.

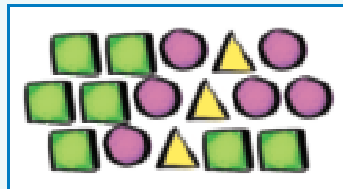


Gadangisa iinomboro.

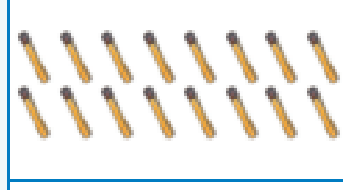
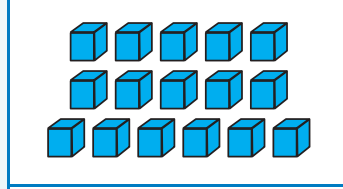


10  
6

16



16



10  
6

16 16 16 16

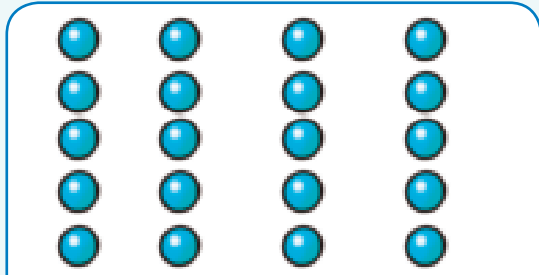
ityhumi nesithandathu

16 16 16 16

ityhumi nesithandathu



Ndulungela imincamo eli-16 kwaphela.



Kusele imincamo emingaki? \_\_\_





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	
		ityhumi nesithandathu



Iyini inomboro encani ngakunye ku-16? \_\_\_\_\_

Iyini inomboro ekulu ngakunye ku-16? \_\_\_\_\_



Iyini enomboro encani ngakunye etjhumini nesithandathu?

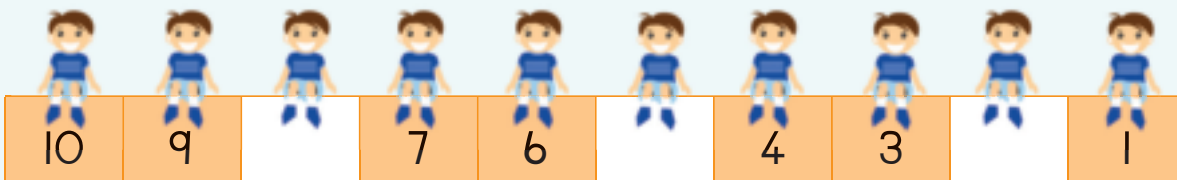
Iyini inomboro encani ngakubili etjhumini nasithandathu?

Iyini inomboro ekului ngakunye etjhumini nasithandathu?

Iyini inomboro ekulu ngakubili etjhumini nasithandathu?



Tlola iinomboro ezitlhayelako.

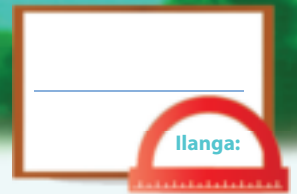


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





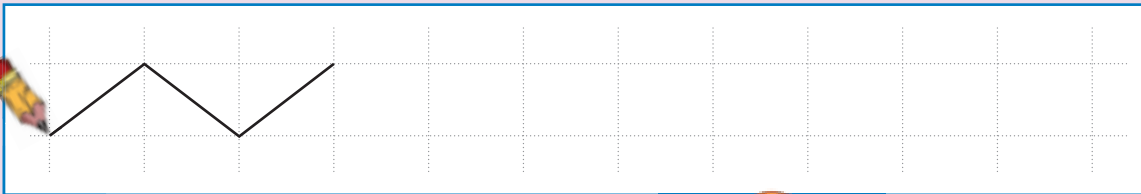
# Inomboro ye -17

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

8

bunane



Madanisa iinthombe.



Gadangisa iinomboro.

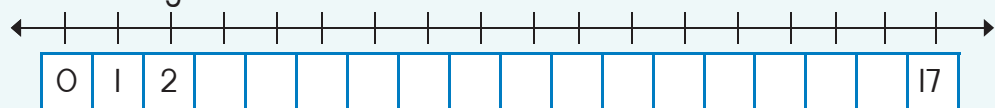
<table border="1"> <tr> <td>10</td> <td>7</td> </tr> </table>	10	7
10	7	
17		

17		
<table border="1"> <tr> <td>10</td> <td>7</td> </tr> </table>	10	7
10	7	

17	17	17	17
itjhuri nekhomba			
17	17	17	17
itjhuri nekhomba			



Qedelela inambalayini.





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



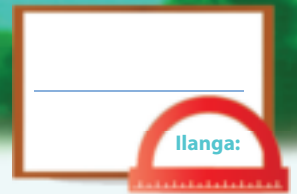
Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



99



# Inomboro ye -18

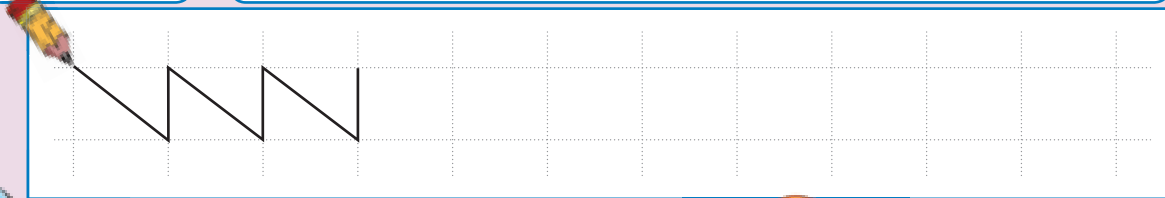
Ithemu 4

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

9

ithoba



Madanisa iinthombe.



Gadangisa iinomboro.

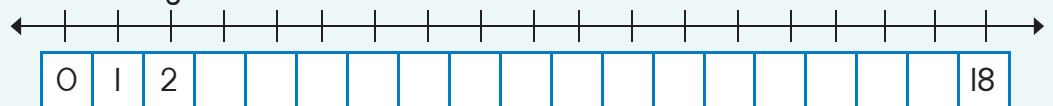
10 + 8
18

18
10 + 8

18	18	18	18
itjhuri nobunane			
18	18	18	18
itjhuri nobunane			



Qedelela inambalayini.





Gwala izinto ezili - 18.

Kwanje zigwale ngendlela eyahlukileko.

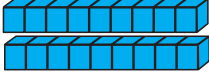
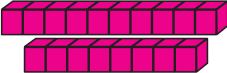
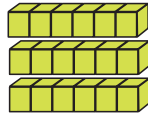



Ngiyiphi inomboro eza ngemva kwale?

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



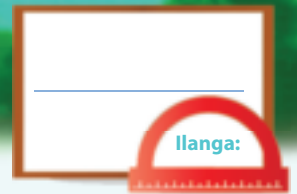
Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



100



# Inomboro ye -19

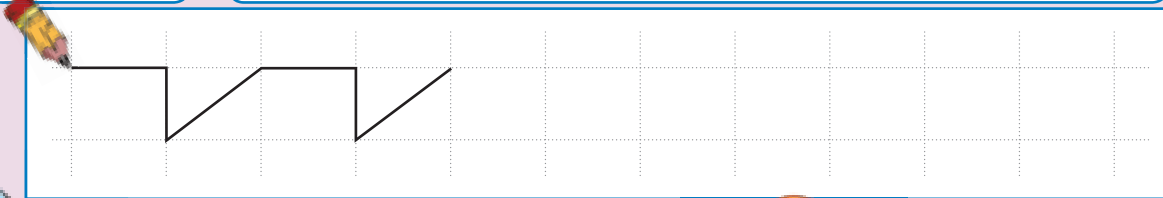
Ithemu 4

Ukubuyekeza:

Zijayeze ukutlola ibizo lenomboro bese uqedelela iphetheni.

10

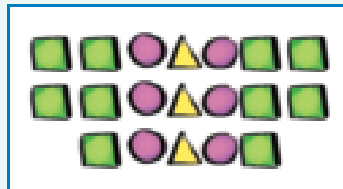
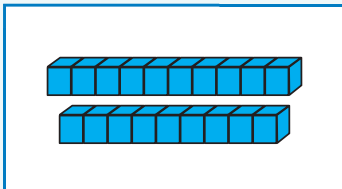
itjhumu



Madanisa iinthombe.

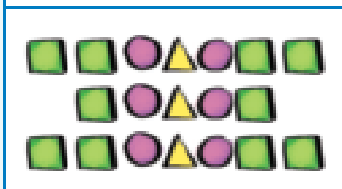


Gadangisa iinomboro.



19 19 19 19

itjhumu nethoba

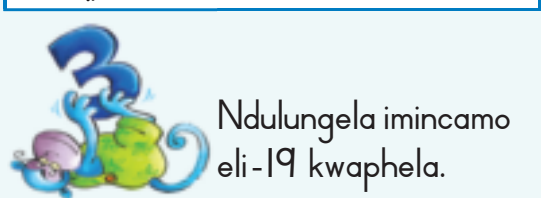
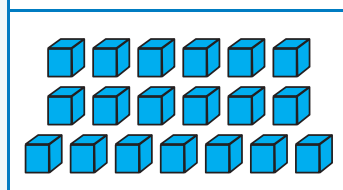


19

19 19 19 19

itjhumu nethoba

10 9



Ndulungela imincamo eli-19 kwaphela.

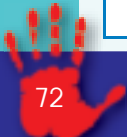
19



Kusele imincamo emingaki? \_\_\_\_



10 9





Gwala izinto ezili - 19.

Kwanje zigwale ngendlela eyahlukileko.











Ngijiphi inomboro eza hlanguana?

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.

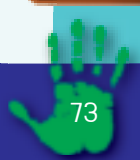
Lezi ziinomboro ezaziwa ngezilingalinganako.

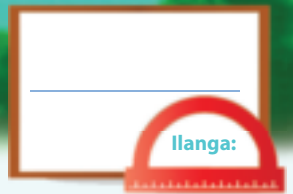
I		3		5		7		9	
II		13		15		17		19	

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





# Inomboro yama - 20

Ithemu 4



Madanisa iinthombe.





Gadangisa iinomboro.

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
- litjhumi nanye
- itjhumi nambili
- kunye
- kubili
- bunane
- iqanda
- kuhlanu
- sithandathu
- itjhumi nantathu
- itjhumi
- itjhumi nane



Qedelela ngenomboro etlhayelako.

Ngaphambili		Ngemva
16	17	
	12	
	14	
	9	10
	6	



Sebenzisa ukuncani nanyana kukhulu ukuqedelela okulandelako:

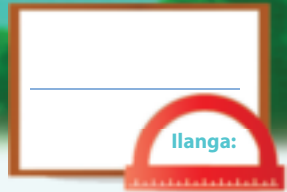
u-35 _____ kunama-38
u-79 _____ kunama-65



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



# 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.

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



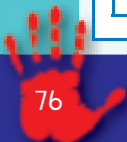
Ngezelela ngamabhlogo.

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



Tlola umutjho weenomboro walokhu okulandelako:

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





Tlola umutjho weenomboro wokhunye nokhunye kwalokhu okulandelako:

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



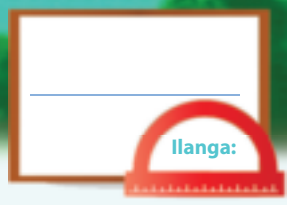
Qedelela ngeenomboro ezilandelako:

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



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_





# Ukukhupha

Ithemu 4



Balisisa.

17		<input type="text"/>
19		<input type="text"/>
14		<input type="text"/>
12		<input type="text"/>



Tlola umutjho weenomboro.

<input type="text"/>					



Tlola umutjho weenomboro.

<input type="text"/>					



Balisisa.

18		<input type="text"/>
7		<input type="text"/>
15		<input type="text"/>
9		<input type="text"/>



Qedelela iimbalo ngokuthi ugwale imigwalo.

	$16 - \square = \square$
	$16 - \square = 8$

	$10 + \square = \square$
--	--------------------------





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 <input type="text"/>	u-3 nakabuyelelwe kabili <input type="text"/>	u-4 nakabuyelelwe kabili <input type="text"/>
u-7 nakabuyelelwe kabili <input type="text"/>	u-2 nakabuyelelwe kabili <input type="text"/>	u-8 nakabuyelelwe kabili <input type="text"/>
i-10 nalibuyelelwe kabili <input type="text"/>	u-9 nakabuyelelwe kabili <input type="text"/>	u-1 nakabuyelelwe kabili <input type="text"/>



Phendula okulandelako:

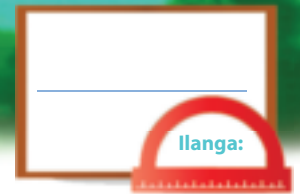
$9 + 9 - 1 =$	nanyana	$u-9$ nakabuyelelwe kabili $- 1 =$	
	nanyana	$u-5$ nakabuyelelwe kabili $- 1 =$	
$4 + 4 - 1 =$	nanyana		

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?

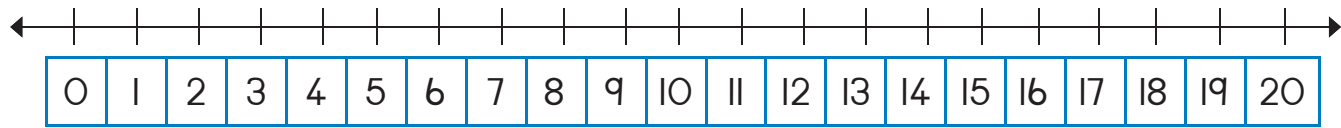
UMandla unamakhrayoni amade ama-5. U-Anne unamakhrayoni amade abu-8.  
Ngubani onamakhrayoni ambalwa?



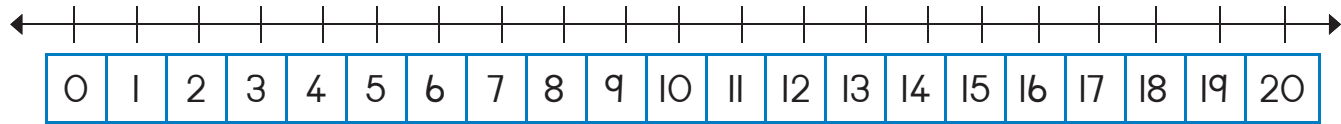


Sebenzisa inambalayini ukurarulula okulandelako:

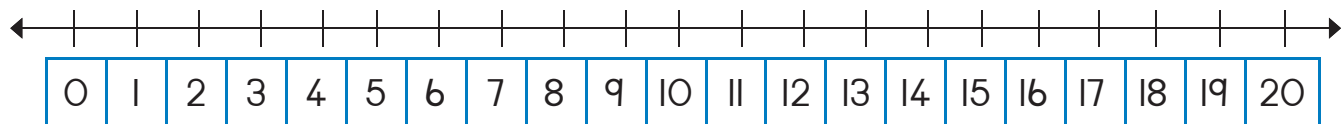
UThandi unamamabula asi-6 ahlaza satjani nali-9 ahlaza sasibhakabhaka. UThandi unamamabula amangaki sele awoke?



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

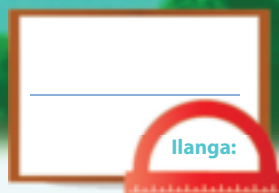
Ndulungela inomboro ekulu ngaku-2 kunama-76.

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



Teacher:  
Sign:  
Date:





# Inomboro ezijayelekileko

Ithemu 4



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

uSipho	uLerato	uJohn	uPeter	u-Ann
<input type="text"/>	2	3	<input type="text"/>	<input type="text"/>



Bagwale kuphodiyanu.



Ngubani ofunyene unongorwana wegolide?

\_\_\_\_\_

Ngubani ofunyene unongorwana wesiliva?

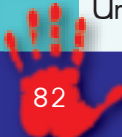
\_\_\_\_\_



Gwala umucu womncamo walokhu okulandelako:

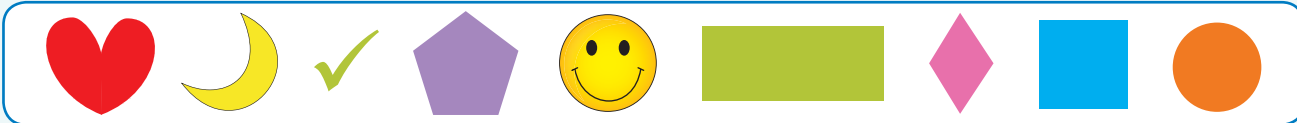
- Umncamo wokuthoma uhlaza sasibhakabhaka.
- Umncamo wesibili ubovu.
- Umncamo wesithathu uhlaza satjani.
- Umncamo wesine usarulani.
- Umncamo wesihlanu uhlaza satjani.
- Umncamo wesithandathu ubovu.
- Umncamo wekhomba uhlaza satjani.
- Umncamo wobunane usarulani.
- Umncamo wethoba uhlaza sasibhakabhaka.
- Umncamo wetjhumi ubovu.

Umucu wami womncamo.





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



Ngiliphi ijamo:

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



Yenza okulandelako:



Khalara ijamo lokuthoma ngombala obovu.



Khalara ijamo lesihlanu ngombala osarulani.



Khalara ijamo lobunane ngombala ohlaza sasibhakabhaka.



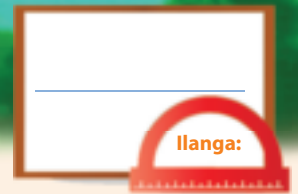
Gwala inambalayini esuka e-10 ukufika ema-20.  
Ndulungela inomboro yesithathu neyobunane.



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

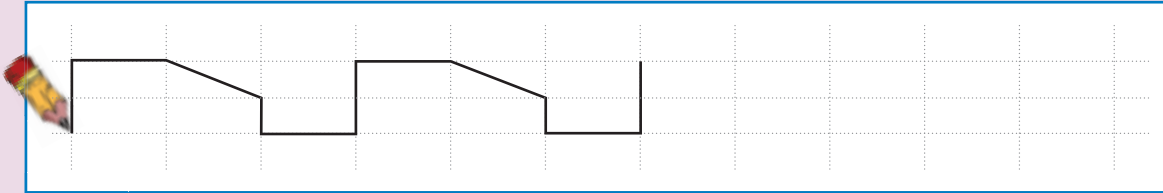
Date: \_\_\_\_\_



## Izinto namajamo

Ukubuyekeza:

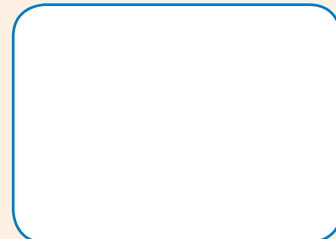
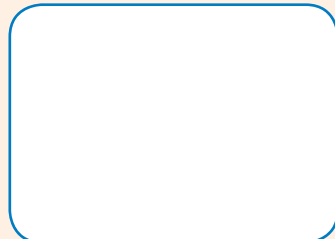
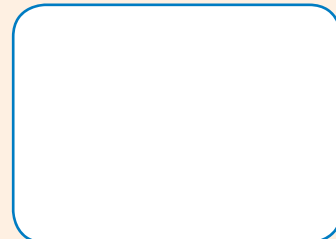
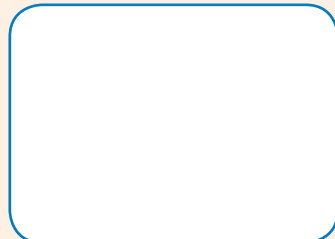
Ukubuyekeza: Madanisa amaphetheni.



Ithemu 4



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



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





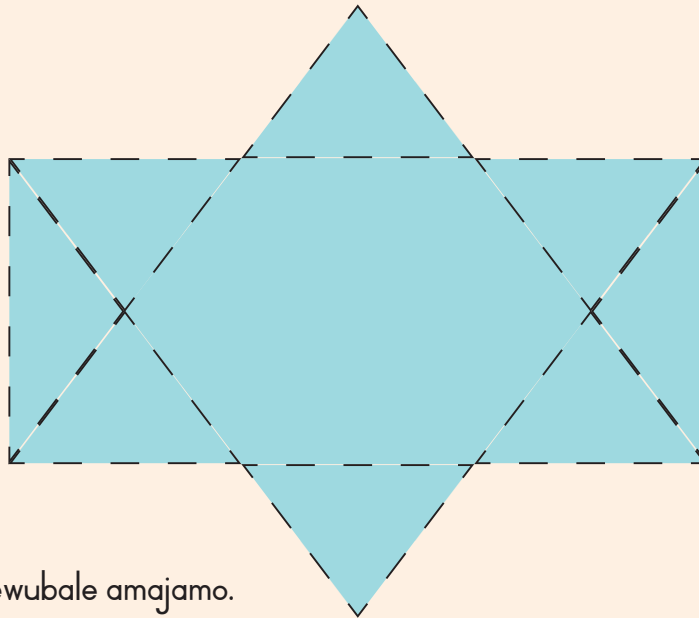
Gadangisa igama bese ugwala into.

Ibhoksi

Ibholo



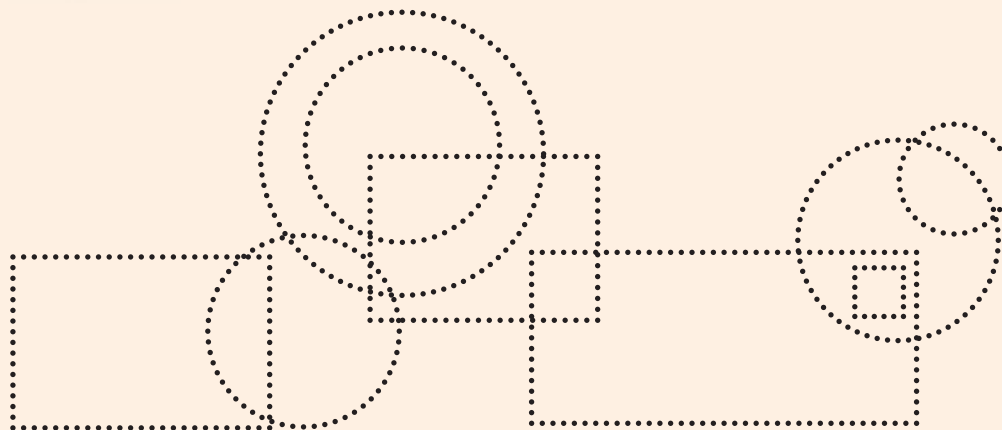
Bala aboncantathu bese utlola inomboro.



Ipendulo:



Gadangisa bewubale amajamo.



Iindulungu

Iinkwere



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_





Ilanga: \_\_\_\_\_

# Imali

Ithemu 4

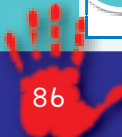


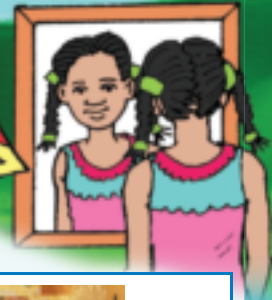
Ngijyphi imali yesimbi ongayimadanisa ndawonye?



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

<p>R10</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p>R20</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p>R15</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>





Susa i-R2.

 $R12 - R2 = R10$	 <input type="text"/>	 <input type="text"/>
---	--	---




Susa i-R5

 $R15 - R5 = R10$	 <input type="text"/>	 <input type="text"/>
--	---	--



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





Ndulungela imali yesimbi emudeni ngamunye ongathenga ngayo okunengi.

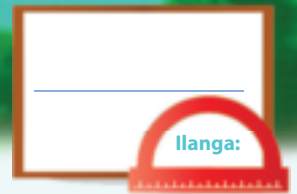


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



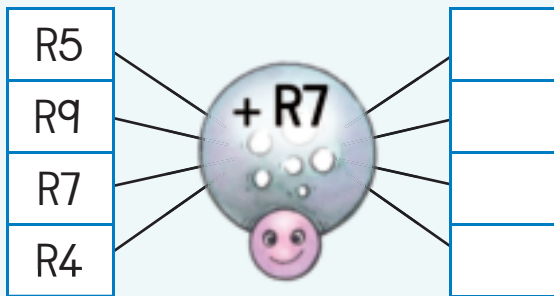


# Ezinye iimbalo zemali

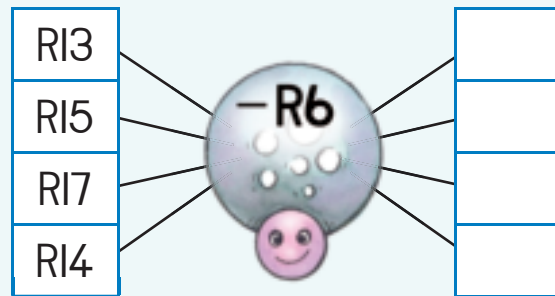
Ithemu 4



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.

R17	=	R10	+	R7
R16	=		+	
R15	=		+	
R14	=		+	
R13	=		+	
R12	=		+	



UJames uthenga uburotho ngama-R8. Ubhadela ngemali yephepha ema-R10. UJames wabuyelwa yimalini?

Uthini umbuzo?

---



---

Tlola iinomboro.

---

Tlola isibalo bese uyabalisisa.

---



Umma kaBusi uthenge ingwani yelanga ngama-R17. Ubhadele ngemali yamaphepha, ema-R10 amabili.



Ilanga lamabeletho lakaJudy belingeSondo. Udadwabo umuphe i-R5. Umnakwabo wamupha i-R2 kwase kuba mzala wakhe owamupha i-R10. Seyihlangene, yimalini imali uJudy ayifunyanako nasele ihlangene yoke?

Uthini umbuzo?

---



---

Tlola iinomboro.

---

Tlola isibalo bese uyabalisisa.

---

Uthini umbuzo?

---



---

Tlola iinomboro.

---

Tlola isibalo bese uyabalisisa.

---

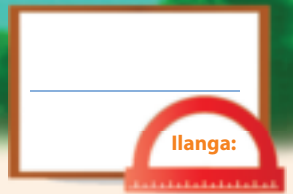


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



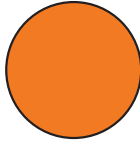

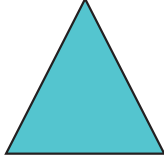





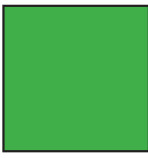





# Amajamo ayi - 2D

Ithemu 4

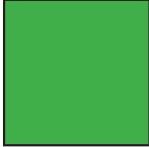

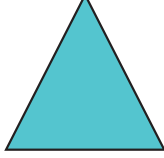


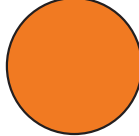








Thika ijamo elincani khulu ebhlogweni ngalinye.



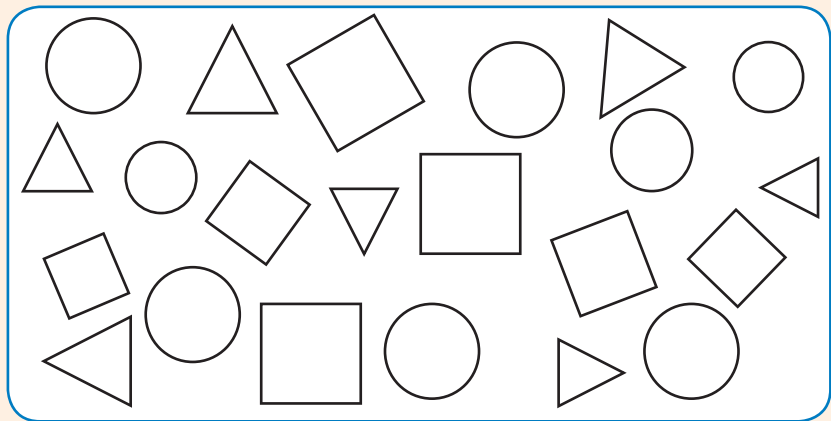
Thika ijamo elikhulu khulu ebhlogweni ngalinye.

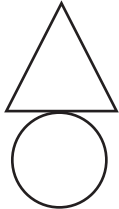

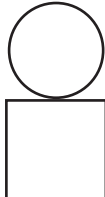


Khalara:

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



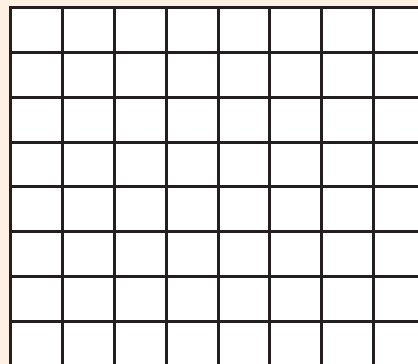
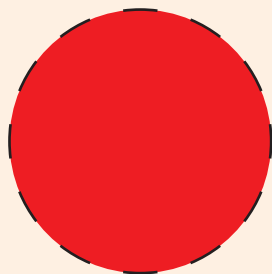
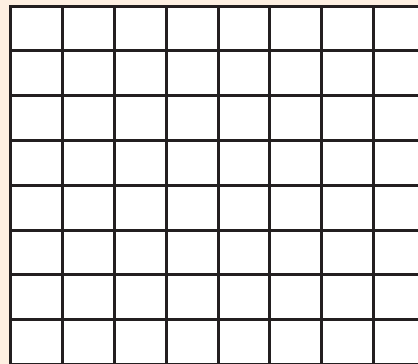
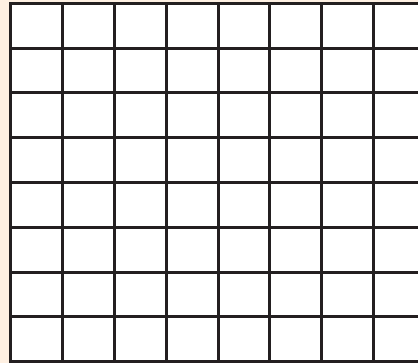
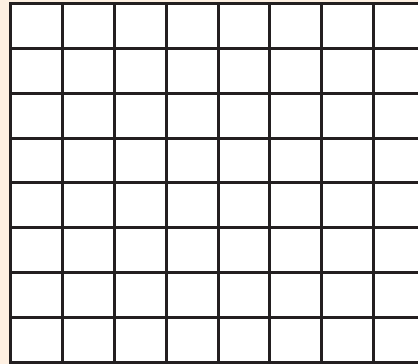
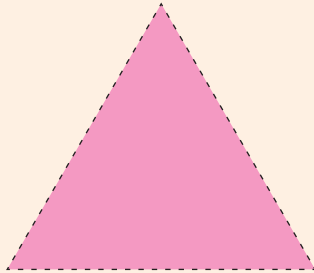
Gwala isithombe usebenzise amajamo. Sikuthomele esinye nesinye isithombe ngamajamo amabili.

		
---	---	---



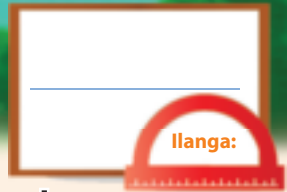


Gwala amajamo ngaphakathi kwegridi.  
Sebenzisa iinkwere ezincane zizokusiza.



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Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



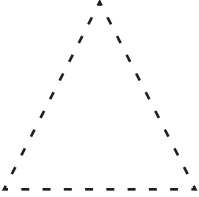



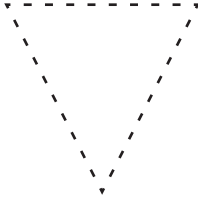
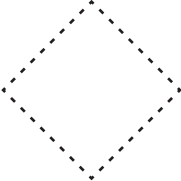


# Amajamo we - 2 - D – amahlangothi anqophileko nayindulungu



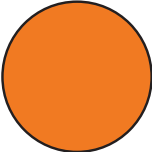

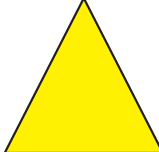
Gadangisa amajamo alandelako.

Ithemu 4

 aboncantathu	 iindulunga	 iinkwere
 iindulunga	 aboncantathu	 iinkwere



Thika ukutjho nangabe ijamo linamahlangothi anqophileko nanyana ayindulungu.

 Amahlangothi ayindulungu <input type="checkbox"/> Amahlangothi anqophileko <input type="checkbox"/>	 Amahlangothi ayindulungu <input type="checkbox"/> Amahlangothi anqophileko <input type="checkbox"/>	 Amahlangothi ayindulungu <input type="checkbox"/> Amahlangothi anqophileko <input type="checkbox"/>
---	---	---


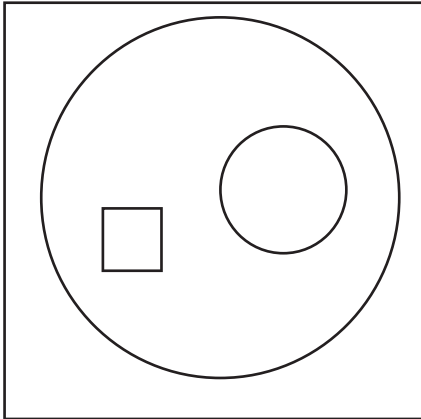
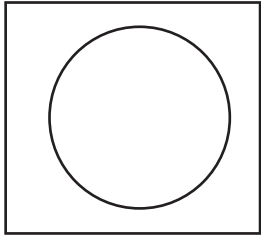

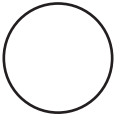

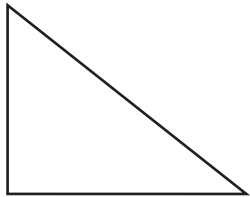
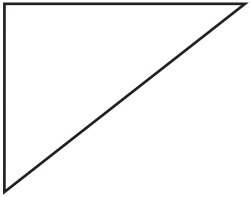
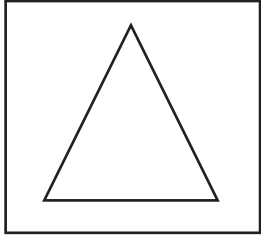


Gwala ijamo elinamahlangothi alandelako:

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



Bala inani leeyingi, iinkwere naboncantathu.

Iindulungu

Iinkwere

Aboncantathu



Funyana isithombe sezinto kibomegazini ezine:

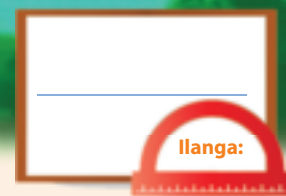
Amahlangothi ayindulungu

Amahlangothi anqophileko



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_



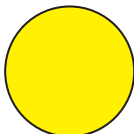

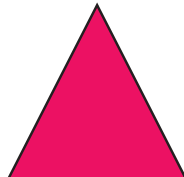
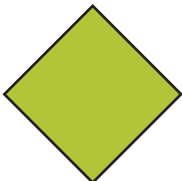
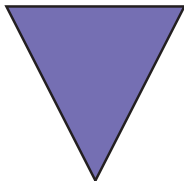
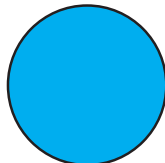


# Amanyane amajamo we – 2-D

Ithemu 4



Yitjho amajamo alandelako:

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

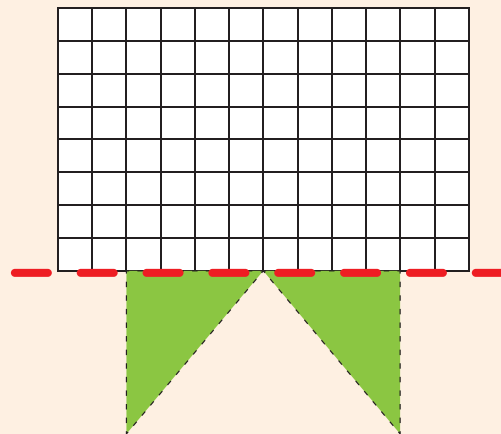
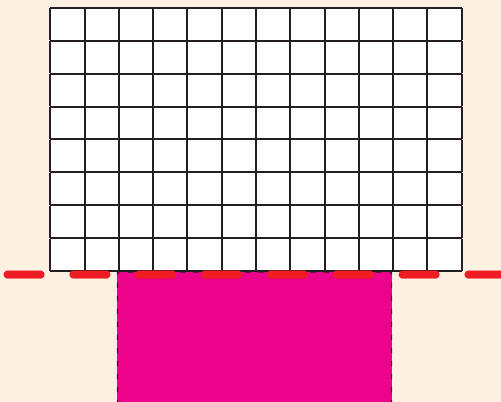
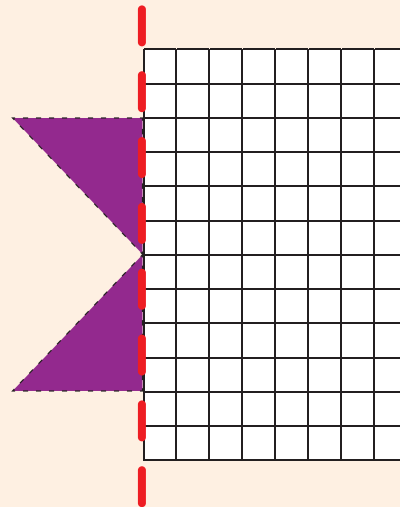
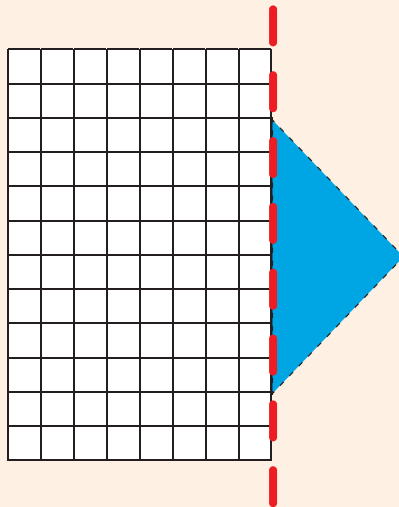
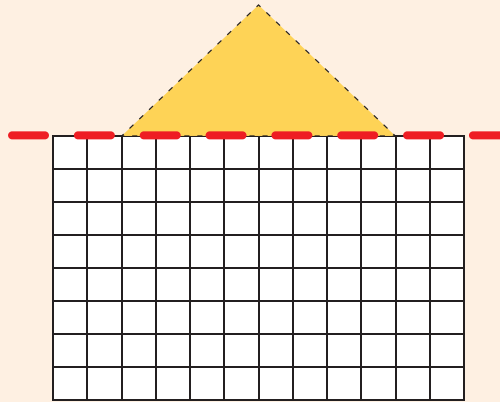
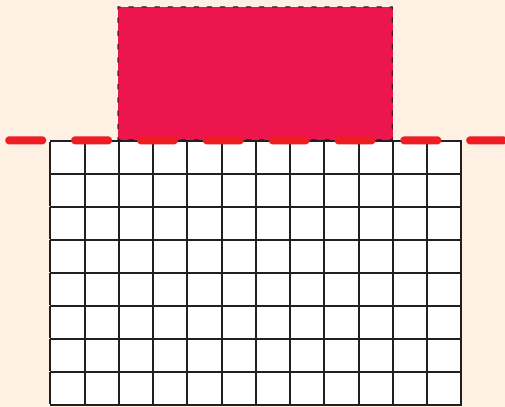


Zigwalele sakho isithombe usebenzise iiyingi, aboncantathu neenkwere kwaphela.





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

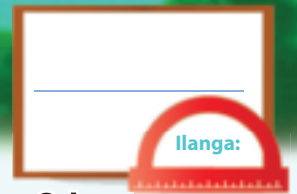


Zoke zinamahlangothi ayindulunga anqophileko .



Teacher:  
Sign:  
Date:





# Amabuthhelelo wangakuhlano bekufike ema - 20

Ithemu 4



Gwala iiyingi ukwaka amabuthhelelo wangakuhlano.  
Unamabuthhelelo wangakuhlano amangaki?

Ibuthhelelo eli-  langaku - 5

amabuthhelelo wangaku - 5

amabuthhelelo wangaku - 5

amabuthhelelo wangaku - 5



Bala inani lemino. Tlola phasi ipendulo yakho.

$5 + 5 + 5 =$

$5 + 5 + 5 + 5 =$

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

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





Tlola umutjho weenomboro walokhu okulandelako:



Phendula imibuzo.



Ubona imali yesimbi eziinsende eziyi-5c engangani?

Tlola ipendulo yakho ngomutjho weenomboro.



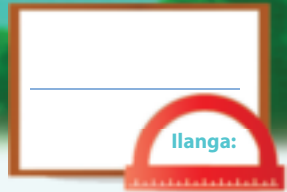
Qedelela ngeenomboro ezilandelako.

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



Teacher:  
Sign:  
Date:





# Okuhlano – ukuhlanganisa okubuyelelweko bekufike ema-20



Beka amabuthelelo wangakuhlano bese utlole umutjho weenomboro.




Gwala amabuthelelo wamajamo ukutjengisa imitjho yeenomboro.

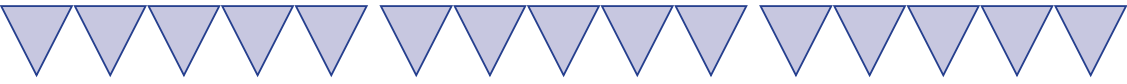
$$5 + 5 + 5 = \square$$


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

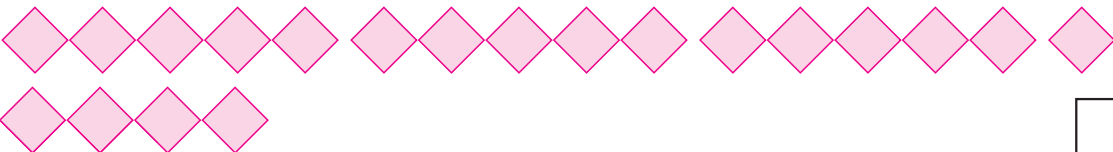


Tlola umutjho weenomboro walokhu okulandelako:


  
 $5 + 5 = \square$









Uzibala kangaki iinomboro ezihlanu? \_\_\_\_\_

1	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.

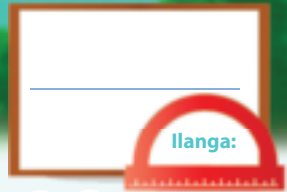


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





# 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.

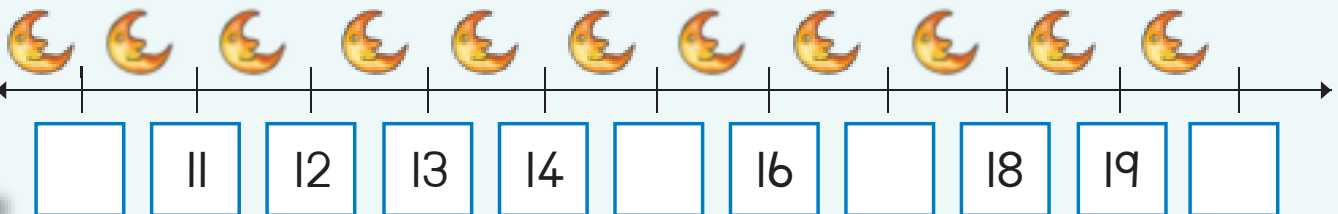


Umngani ngamunye uzokufunyana amaswidi.

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:

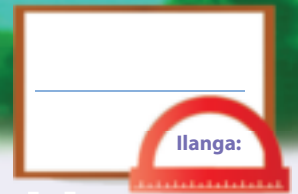


$$5 + 5 =$$



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_





## Amaphetheni weenomboro – ngakuhlano bekufike e-100



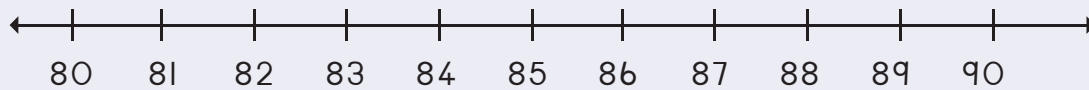
Qedelela iphetheni ngokuthi ukhalar e isibuyabuyelelo sangakuhlano.

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

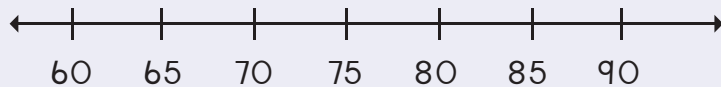


Gwala amawulawubhu ukutjengisa okulandelako:

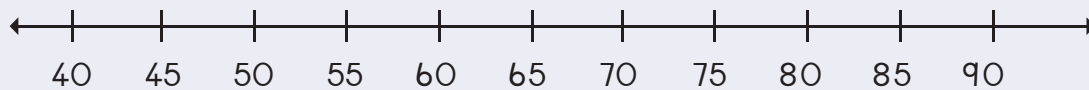
86, 88, 90



70, 75, 80



55, 60, 65, 70



Sebenzisa iwatjhi ukutjengisa imizuzu ebalwa ngakuhlano.



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:





Ilanga: \_\_\_\_\_

# 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



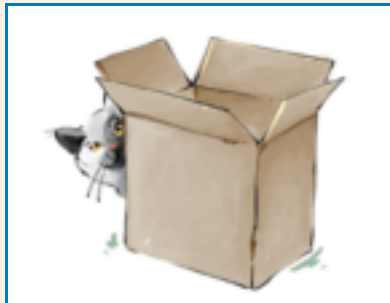
Ukatsi ukuphi?  
Khalara ipendulo enembako.



Ngemuva

Ngaphambili

Eduze kwe-



Ngemuva

Ngaphambili

Eduze kwe-



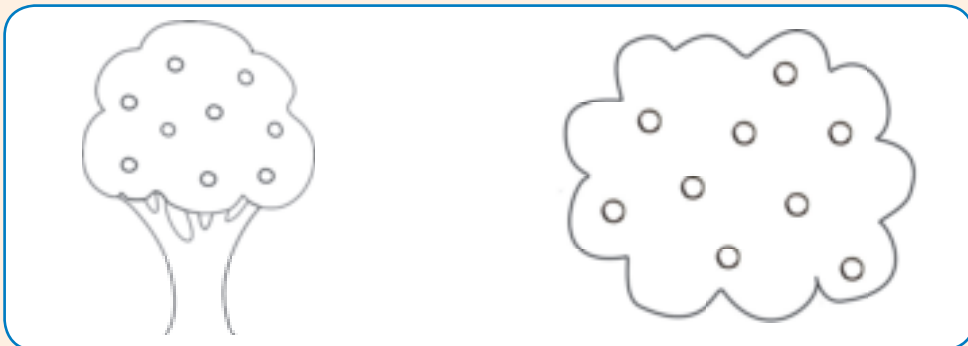
Ngemuva

Ngaphambili

Eduze kwe-

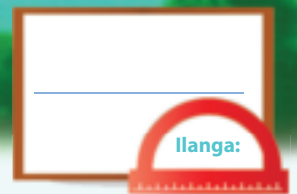


Qalisisa iinthombe  
zomuthi.  
Khalara ukubonakala  
kwangaphezulu.



Teacher:  
Sign:  
Date:





# Amabuthhelelo wangakubili bekufike ema-20

Ithemu 4



Beka amabuthhelelo wangakubili. Tlola kobana kunamabuthhelelo amangaki?



Beka amabuthhelelo wangakubili. Gwala amabuthhelelo.






Phendula imibuzo.



Kuneenyoni ezingaki?

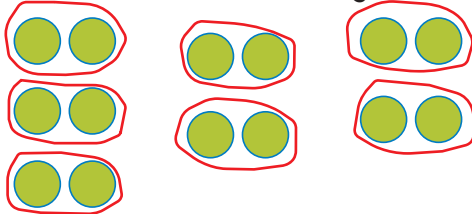
Ungabeka amabuthhelelo wangakubili amangaki?

Tlola umutjho weenomboro.

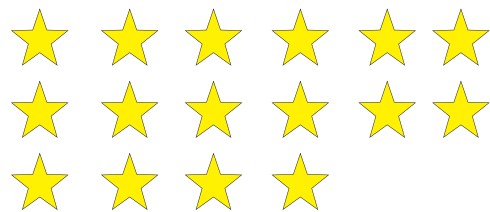


Gwala iiyingi ukwenza okulandelako:

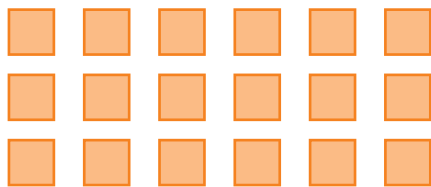
Amabuthhelelo ali-7 wangaku-2



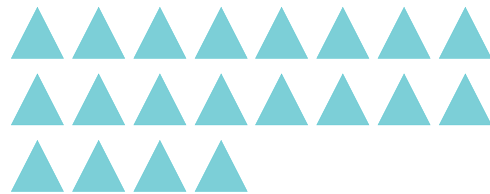
Amabuthhelelo abu-8 wangaku-2



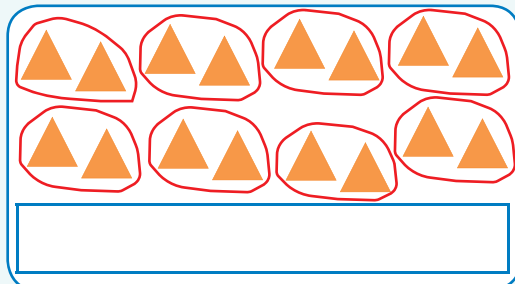
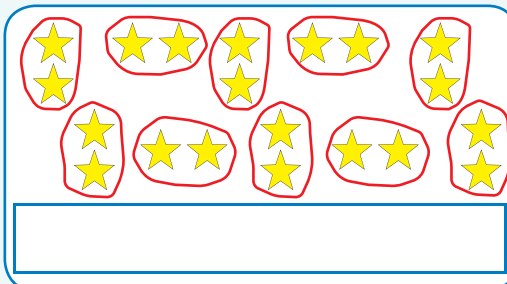
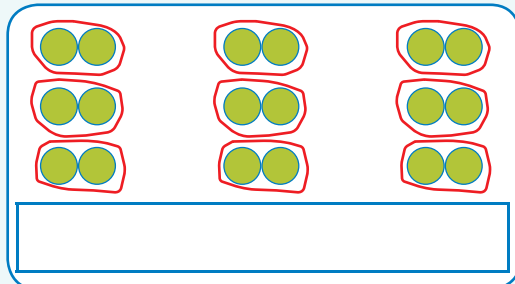
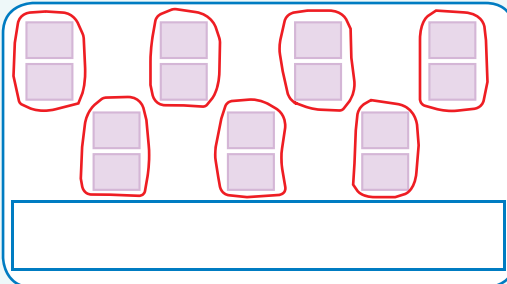
Amabuthhelelo ali-9 wangaku-2



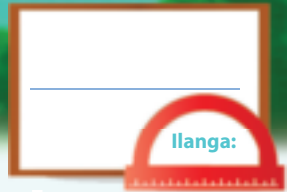
Amabuthhelelo ali-10 wangaku-2



Tlola umutjho weenomboro walokhu okulandelako:



Teacher:  
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Date:

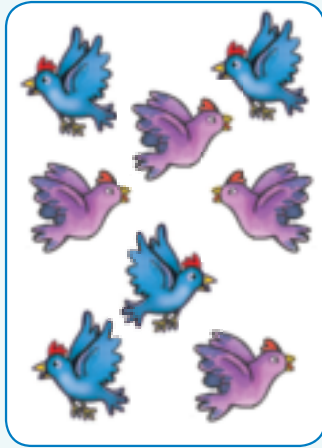


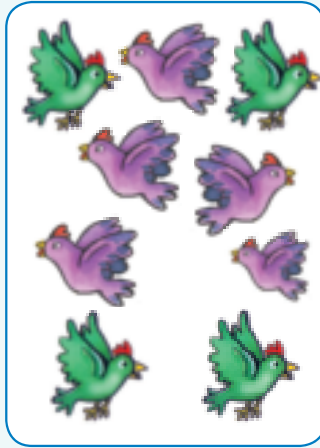
# Ngakubili – ukubala okubuyelelweko bekufike ema-20

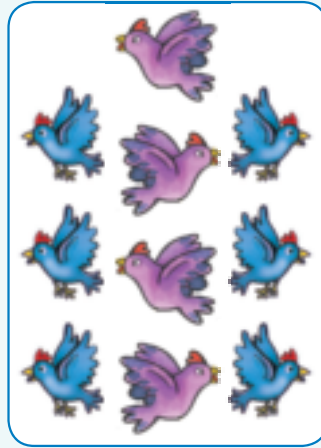


Kuneenyawo ezingaki? Gwala umutjho weenomboro wesibalo ngasinye.











Gwala amajamo walokhu okulandelako:

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



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

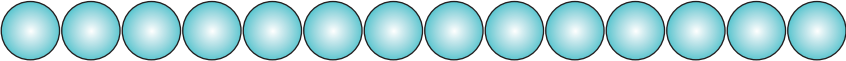
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

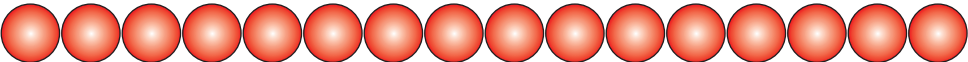
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \square$$

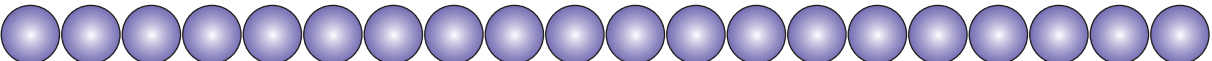





Tlola umutjho weenomboro walokhu okulandelako:

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









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 .

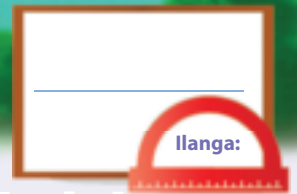


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





# Amaphetheni weenomboro – ngakubili bekufike e-100

Ithemu 4



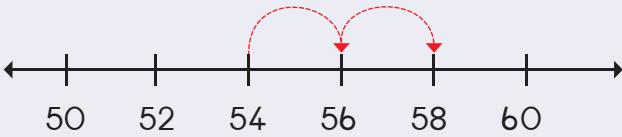
Qedelela iphetheni ngokukhalara.

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

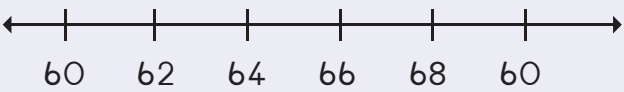


Gwala amawulawubhu ukutjengisa okulandelako:

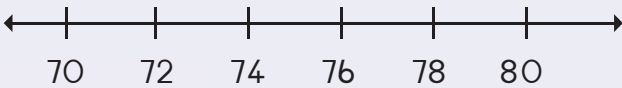
54, 56, 58



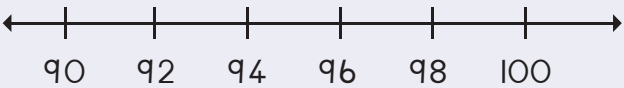
64, 66, 68



74, 76, 78



94, 96, 98

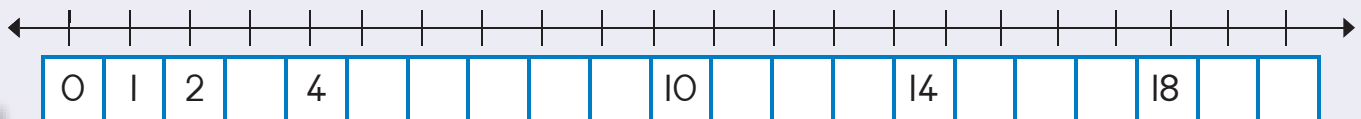


Qedelela ngeenomboro ezitlhayelako. Khalara iphetheni yeenomboro: 2, 4, ...

I		3				7			10
II						17			20

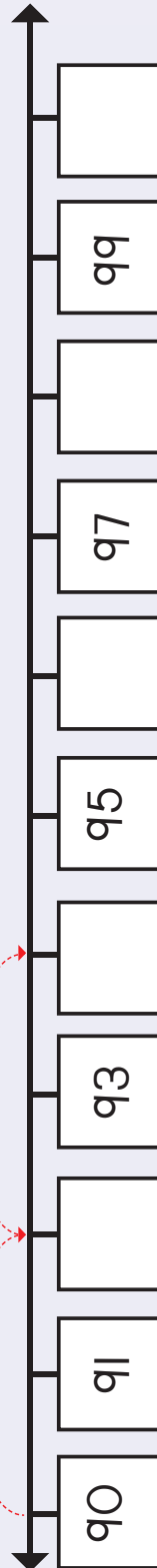
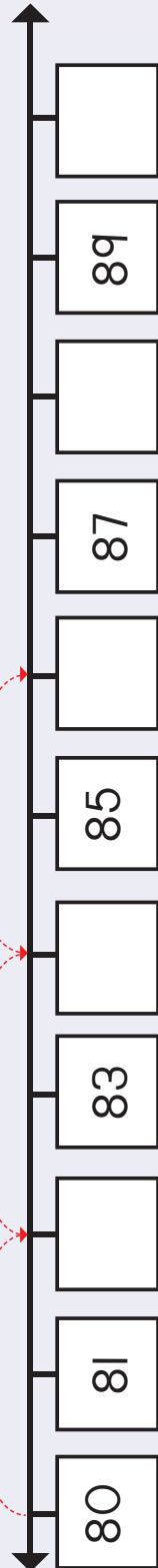
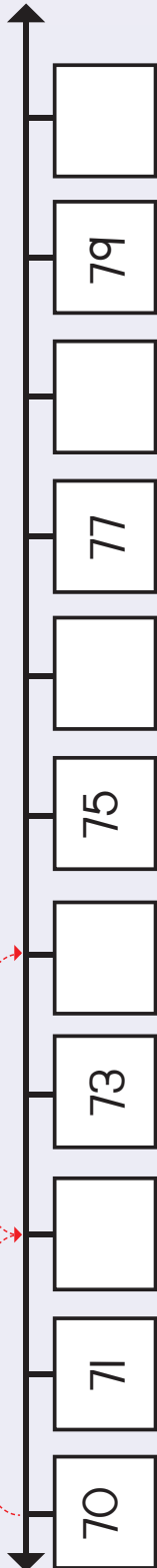
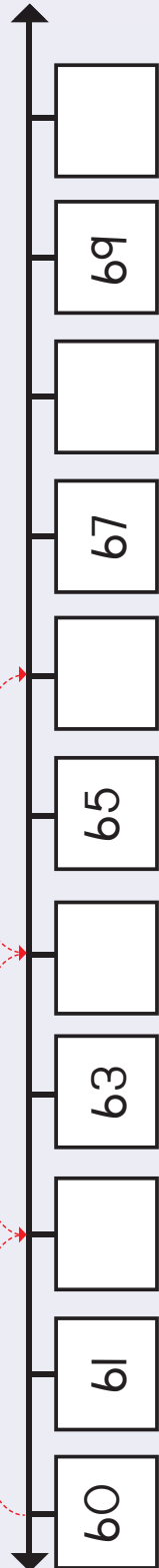


Qedelela inambalayini.





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



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_





Blank box with a red arch and the word 'Ilanga:' below it.

# Iphetheni yeenomboro – ngakubili bekufike e-100

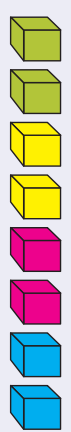
Ithemu 4



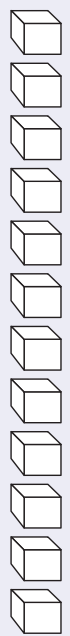
Uyayibona iphetheni yangakubili?



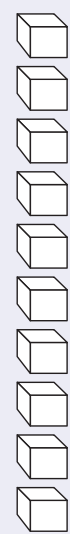
Khalara amabhlogo ukutjengisa amabuthelelo wangakubili. Bala kobana kunamabuthelelo amangaki?



4



□

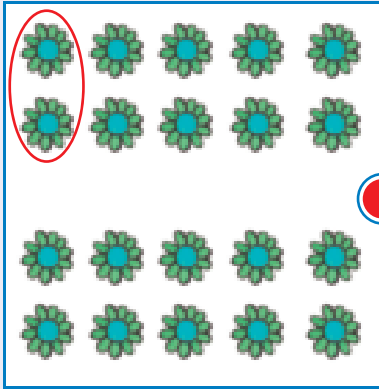


□

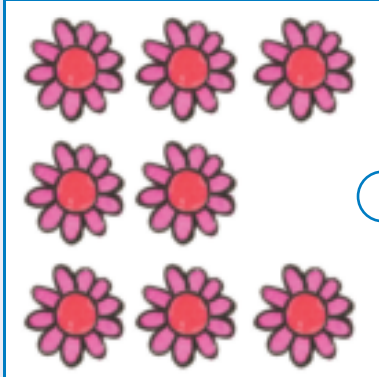




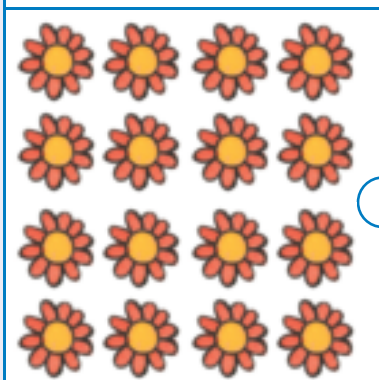
Madanisa amabuthhelelo wangakubili nomutjho weenomboro ngokuthi ugwale umuda.



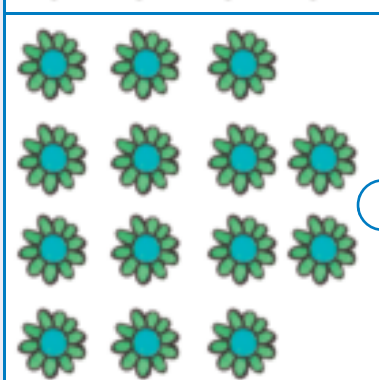
$$2 + 2 + 2 + 2 = 8$$



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



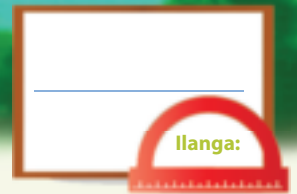
$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20$$



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



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

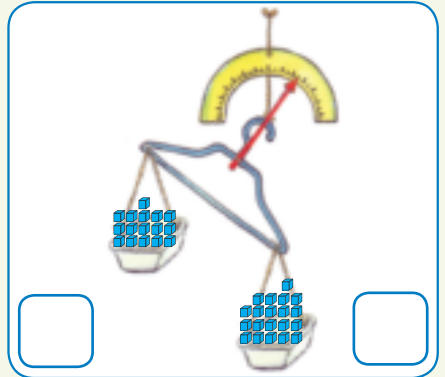
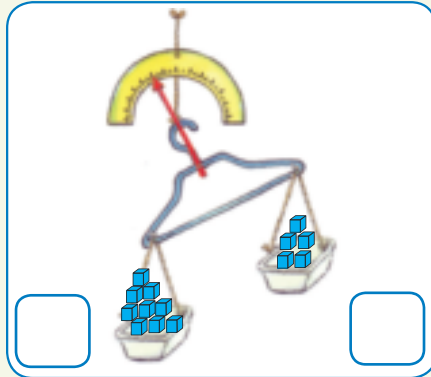
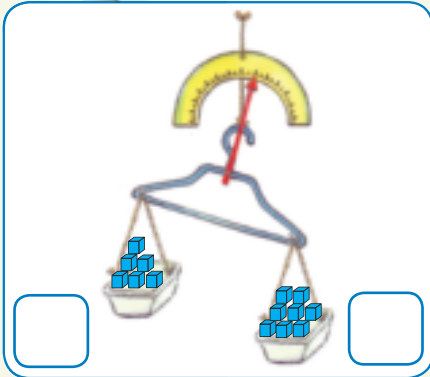


# Imasi (ubudisi)

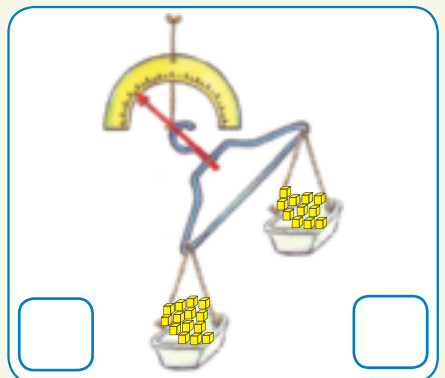
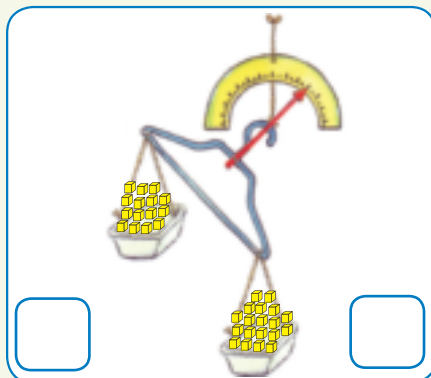
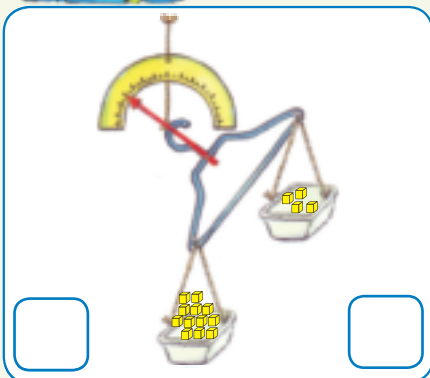
Ithemu 4



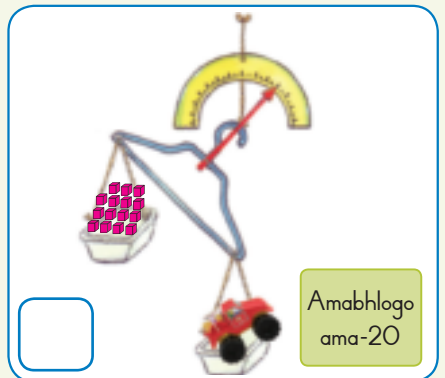
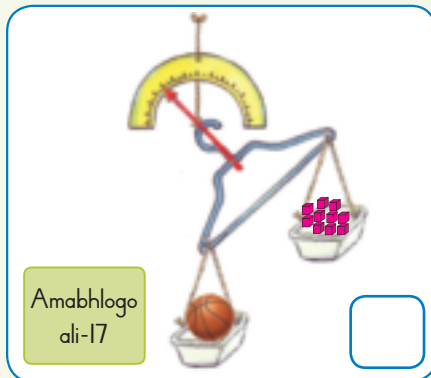
Tlola kobana mabhlogo amangaki esimumathini ngasinye. Ndulungela isimumathi esibudisi khulu.



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

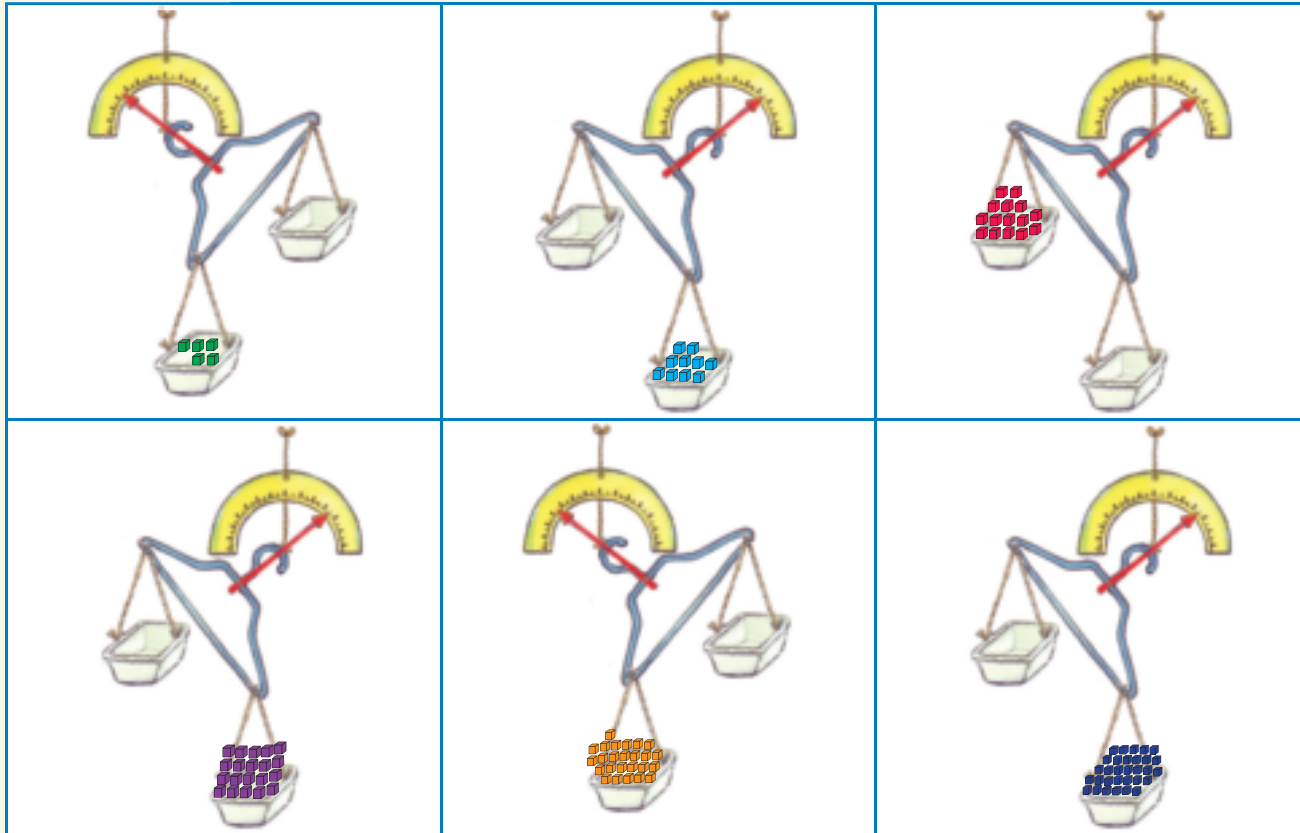


Bala kobana kunamabhlogo amangaki. Bese uyabalisisa kobana mabhlogo amangaki angezelelweko azokutlhogeka ukubhalansa isidlalisi. Yitjho kobana isidlalisi sikala ubudisi obungangani.





Gwala into ebudisi nanyana elula kunamabhlogo.



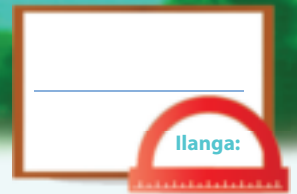
Sebenzisa izinto ezihlanu ezisedeskini lakho. Kokuthoma, linganisa kobana zikala ubudisi obungangani bese usebenzisa isikala ukubona -ke kobana ukulinganisa kwakho kuyanemba na.

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



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_





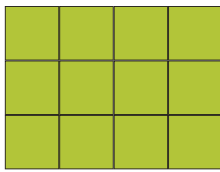
# Ukubuyelela kabili

Ithemu 4



Phendula okulandelako:

Kuneenkwere ezingaki?




Kwanje kuneenkwere ezingaki?




Sithi i-12 nalibuyelelwe kabili ipendulo ma-24.

Ubona imilenze emingaki?

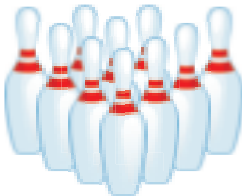



Kwanje sele kunemilenze emingaki?

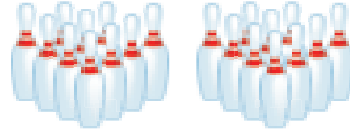



Sithi isi-6 nasibuyelelwe kabili

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	
Okuhlano nakubuyelelwe kabili	
Okusithandathu nakubuyelelwe kabili	
Okulikhomba nakubuyelelwe kabili	



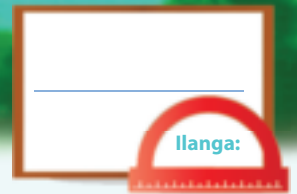
Qedelela itheyibula.

$9 + 9 + 1 =$ <input type="text"/>	nanyana	Okuli-9 nakubuyelelwe kabili + 1 = <input type="text"/>
<input type="text"/>	nanyana	Okubu-8 nakubuyelelwe kabili + 1 = <input type="text"/>
$10 + 10 + 1 =$ <input type="text"/>	nanyana	<input type="text"/>
$7 + 7 + 1 =$ <input type="text"/>	nanyana	Okuli-7 okubuyelelwe kabili + 1 = <input type="text"/>



Teacher:  
Sign:   
Date:





# 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





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	



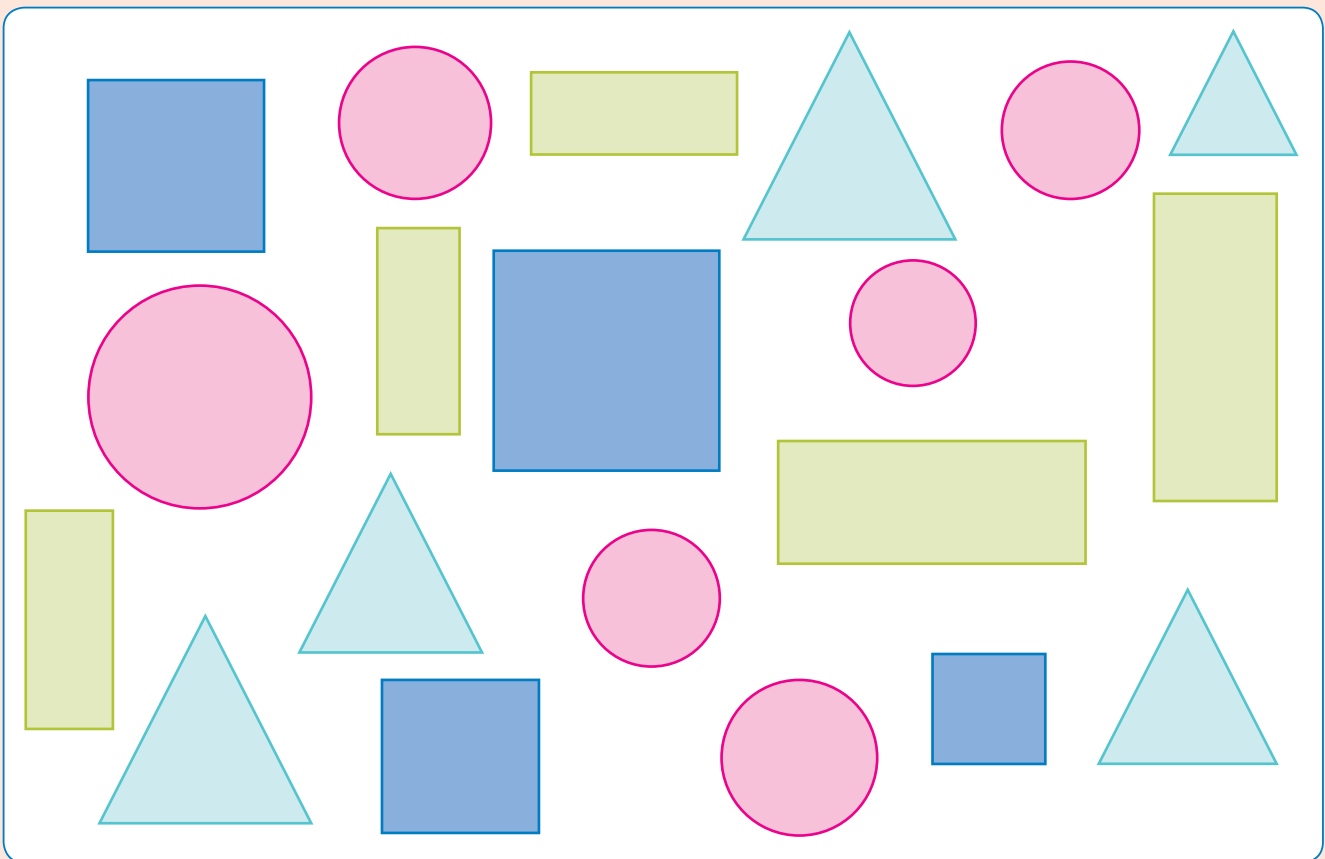
Teacher:  
Sign:  
Date:



## 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:





Ilanga:

# Enye idatha

Ithemu 4



Abentwana ngetlasini baneendlalisi ezilandelako. Unemihlobo emingaki yalokhu?



Qedelela itheyibula.

Isidlalisi	Inomboro
Abonodoli	
Amatraga	
Amabhere	
Amarobodi	

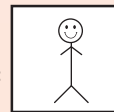




Qedelela igrafu yeenthombe ngokuthi ugwale inani leenthombe ekungilo lomhlobo ngamunye weendlalisi.

Iindlalisi esinazo

Isikhiya =



Abonodoli	Amatraga	Amabhere	Amarobodi



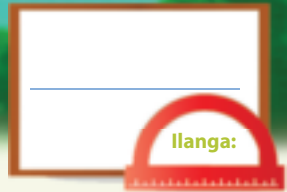
Phendula imibuzo elandelako. Qalisisa igrafu yeenthombe izokusiza.

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



Teacher:  
Sign:  
Date:



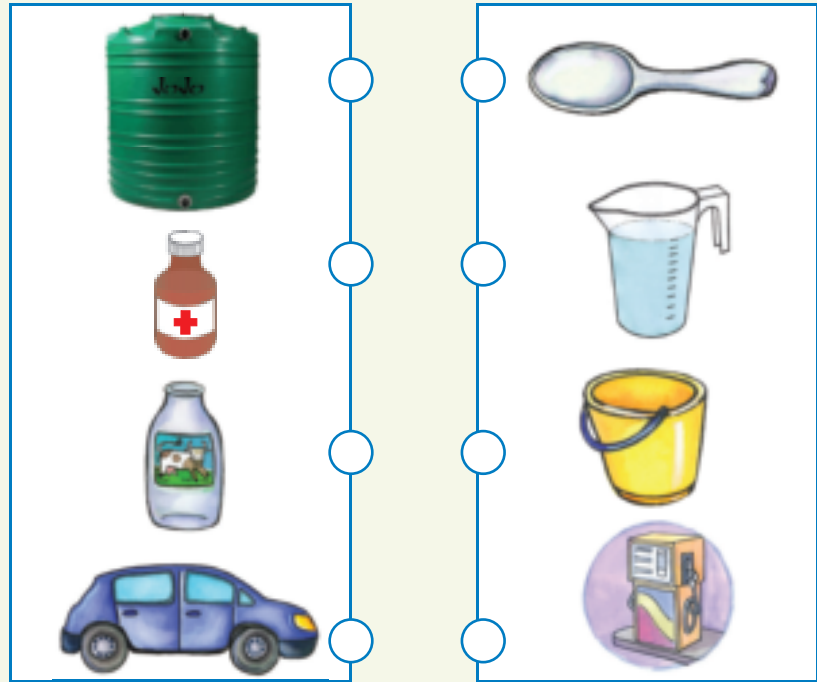


# Umthamo

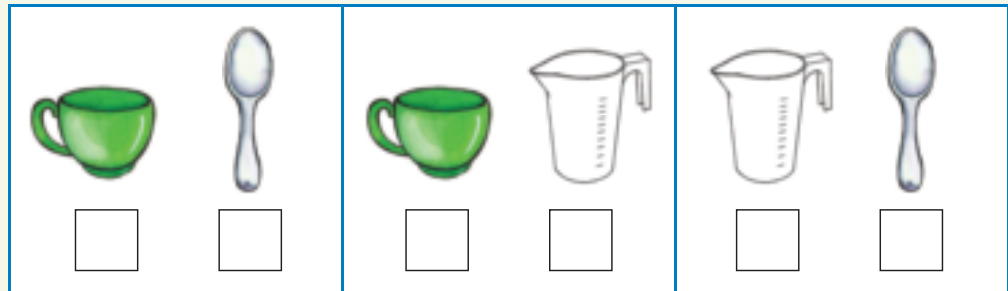
Ithemu 4



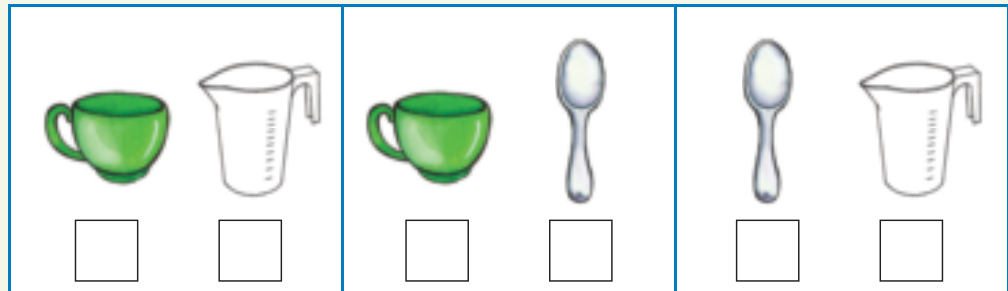
Itlelezi silimeda njani? Gwala umuda ukumadanisa into enesisetjenziswa sokumeda ekungiso.



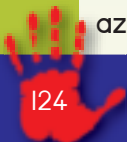
Thika isimumathi esizokuba nokuncani.



Thika isimumathi esizokuba nokunengi.



Ingabe iimumathi zizele nanyana azinalitho?





Utlhoga amakopi amahlanu ukuzalisa ijeye. Uzokutlhoga amanye amakopi amangaki ukuzalisa amanye amajeye amabili? Gwala amakopi lawo.

--	--	--



Khalara inani elinembako lamanzi.

 1	+	 2	=		<input type="text"/>
 2	+	 2	=		<input type="text"/>
 2	+	 3	=		<input type="text"/>



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_





Ilanga: \_\_\_\_\_

# Amaphetheni wejiyomethri

Ithemu 4



Qedelela amaphetheni.

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

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

A	B	B	A	B	B		B	B	A		
---	---	---	---	---	---	--	---	---	---	--	--

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

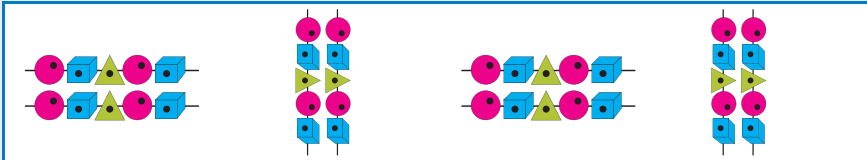
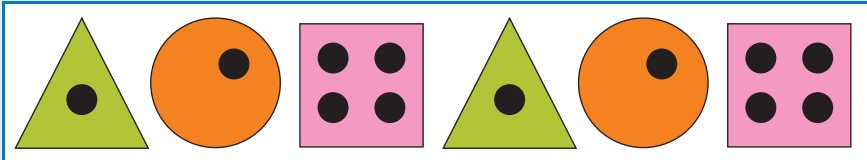
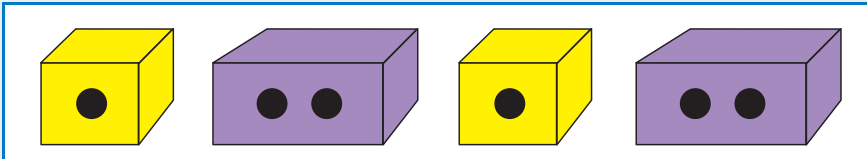
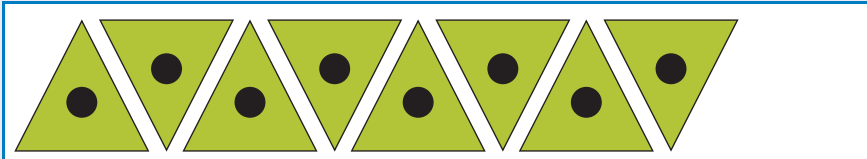
A	D	A	D	A	D			A	D		
---	---	---	---	---	---	--	--	---	---	--	--

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Yelula iphetheni.

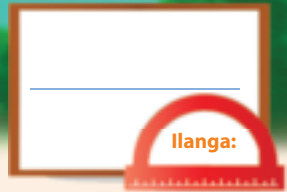


Zenzele wakho amaphetheni usebenzise iiyingi, iinkwere naboncantathu.



Teacher:  
Sign:  
Date:



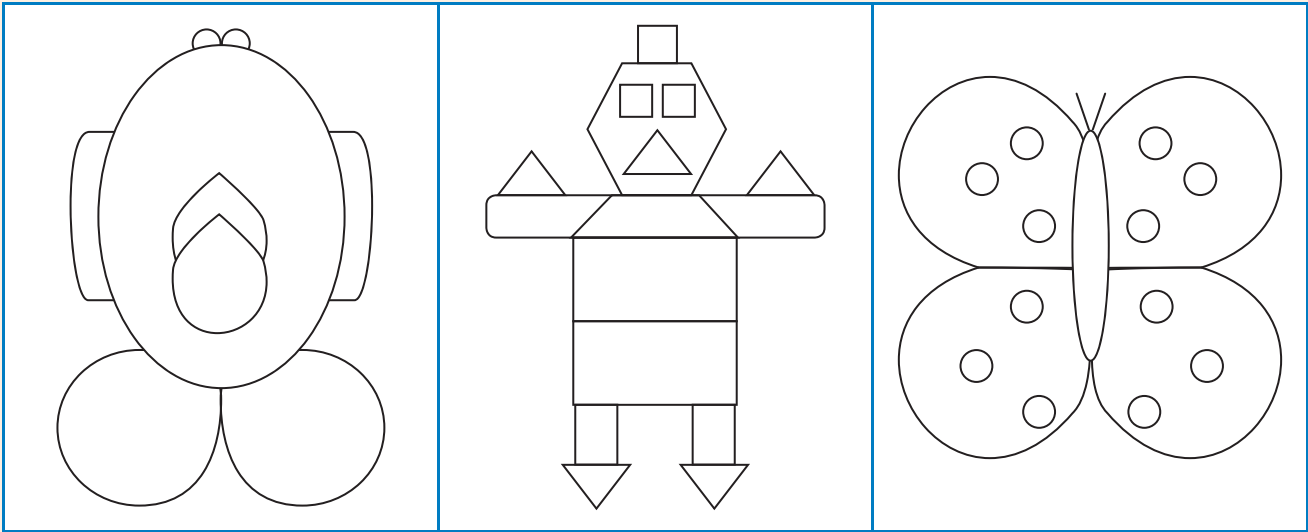


# Isimethri/Ukubandeka -bulingana

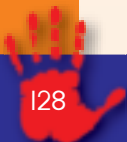
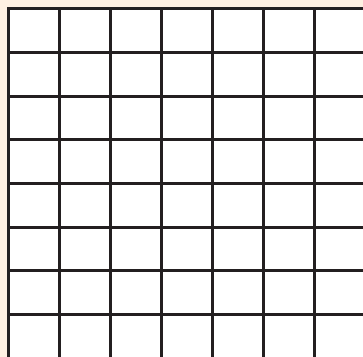
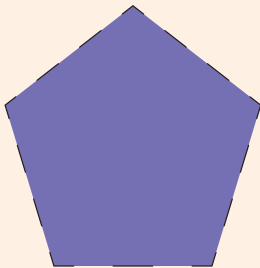
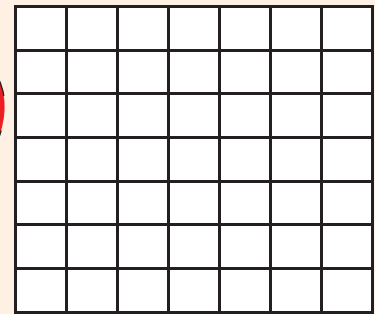
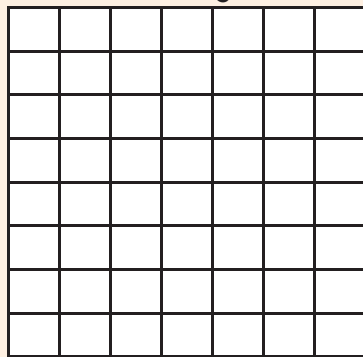
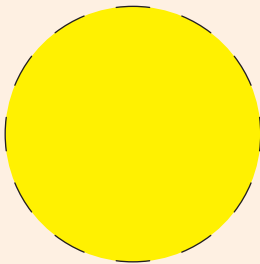
Ithemu 4



Gwala umuda ozokwehlukana 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.




Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

# Amanowuthi



A large white rectangular area with a vertical red margin line on the left and horizontal blue lines for writing.

# Amanowuthi



A large, blank writing area with horizontal blue lines and a vertical red margin line on the left side.

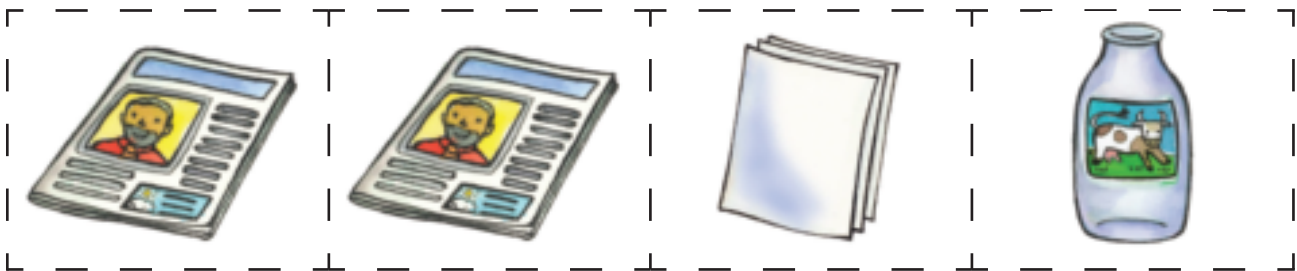
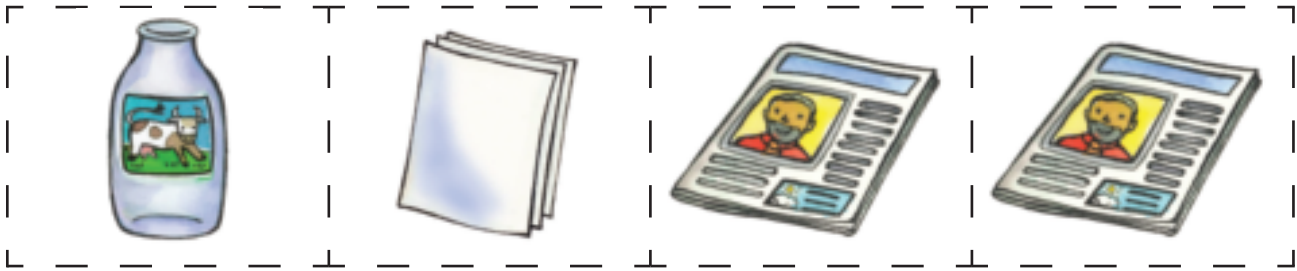
# Amanowuthi



A large white rectangular area with a vertical red margin line on the left and horizontal blue lines for writing.

# Cut-out 1

Worksheet 79





## Cut out cards 2

### Worksheet 83

45	50	40	40	30	35
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### Worksheet 84

70	65	75	80	70	60
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### 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						

