

MATHEMATICS IN ISINDEBELE
GRADE 3 – BOOK 1
TERMS 1 & 2
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9th Edition

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IIMBALO NGESINDEBELE – IGreyidi 3 Incwadi |

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UKkz. Angie Motshekga,
nguNqgonqgotjhe
wezeFundo-Sisekelo



UNom Enver Surty,
nguSekela kaNqgonqgotjhe
wezeFundo-Sisekelo

Iincwadi lezi zenzelwe abentwana beSewula Afrika ngaphasi koburholi bakaNqgonqgotjhe wezeFundo-Sisekelo. uMma u-Angie Motshekga, kanye neSekela lakaNqgonqgotjhe wezeFundo-Sisekelo. uNom. Enver Surty.

Iincwadi zokuSebenzela zakwaRainbow ziyingceny 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 ukukhupa iincwadi zokusebenzela lezi ngawo woke amalimi asemthethweni ngaphandle kweendleko.

Siyathemba kobana nizokufunyana iincwadi zokusebenzela lezi zilisizo khulu ekufundiseni kwenu kwangamalanga kanye nokuinisekisa kobana abafundi benu bayayiqeda ikharikhulamu. Sitjheje khudlwana ukuhlahla abotitjhore komunye nomunye umsebenzi ngokusebenzisa iinthombe ezitjengisako bona ngikuphi umfundi amelete akwenze.

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

Sinifisela ipumelelo ekusebenziseni iincwadi lezi.



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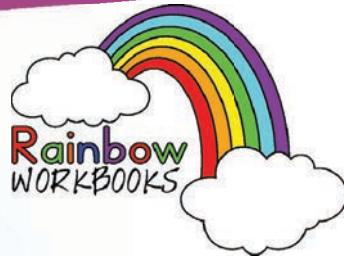
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IGreyidi

3



NGESINDEBELE

Incwadi le ngeyaka:



ISINDEBELE

Incwadi

I



Ilanga:

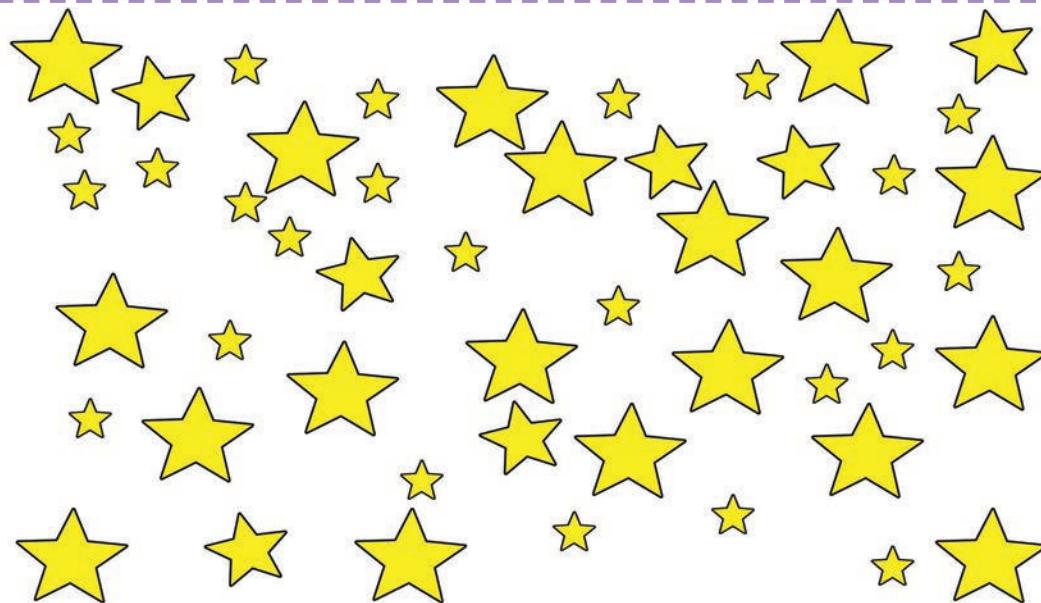
.....

Ithemu |



Ziinkwekwezi ezingaki?

Madanisa iimpendulo.



Linganisa kobana ziinkwekwezi ezingaki. _____

Kwanjesi zibale! _____



Thola othumbleko!

Ngubani olinganise kuhle khulu?

Zalisa amabizo wakho neempendulo etheyibuleni le.

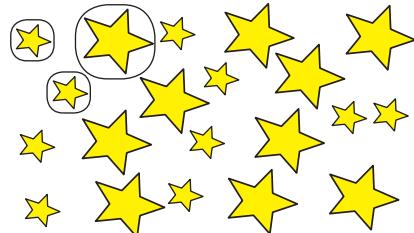
Ibizo				
Isilinganiso				
Inomboro ebaliweko				
Umehluko hlangana nesilinganiso sakho nokubala kwakho				



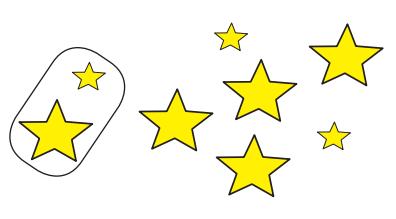
Iindlela zokubala. Sisiza ukuzitlola.



Ngibale
ngaku-1.



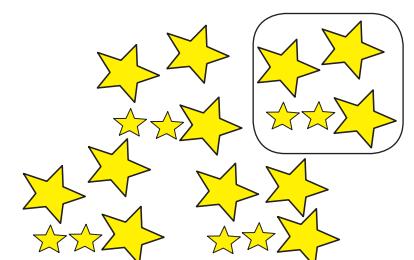
1, 2, 3, _____



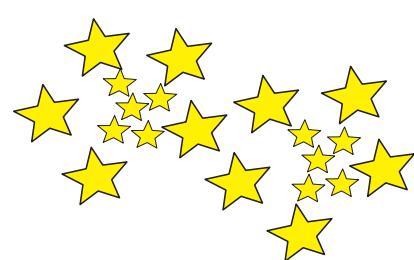
Ngibale
ngaku-2.



Ngibale
ngaku-5.



5 _____



Ngibale
nge-10.



Tlola iinomboro zemitjho

Tlola imitjho emibili ukunikela ithothali yesibalo seenkwekwezi ezikulu nezincani ezisekasini le-2. Zitlole ngeendlela ezimbili.

Lokha nawuhlanganisa
iinomboro ezinye nezinye
ezimbili akwenzi litho kobana
zilandelana njani.

Ekulu Encani Ngendlela le

$$\star + \star = \underline{\hspace{2cm}}$$

godu njengenomboro yomutjho.

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

namkha ngendlela le

$$\star + \star = \underline{\hspace{2cm}}$$

$$namkha \quad \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$



11 12 13 14 15 16 17 18 19 20

2



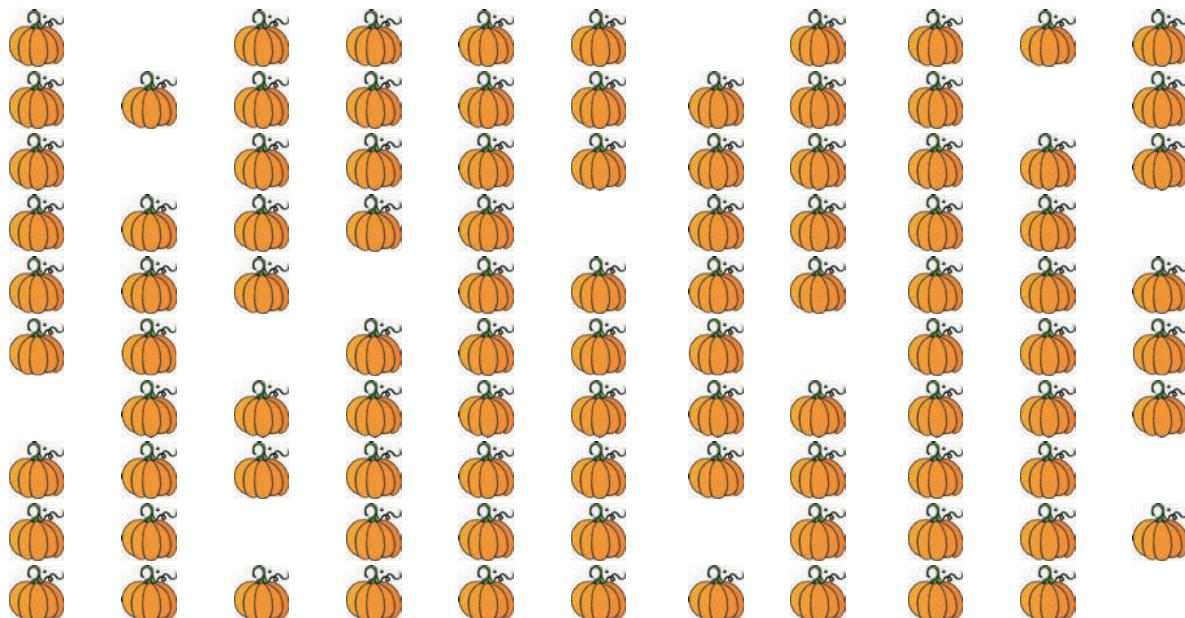
Ithemu |



Ukubala okuhlakaniphileko

Bala amathanga

Fumana indlela elula yokuwabala.



Ipendulo: _____



Paka amathanga

Amathanga alitjhumi angena ngemgodleni munye.



Mingaki imigodla? _____

Kusele amathanga amangaki? _____

Kutlhogeka amathanga amangaki ukuzaliselela umgodla owodwa ngaphezulu? _____



Kusukela ku- + ukuya ku- ×
(kuuhlanganisa ukuya ekubuyabuyeleleni)
Zaliselela iinomboro zomutjho.

Isibonelo:

$$10 + 10 + 10 + 10 = 40 \rightarrow 4 \text{ ezinengi ezili-}10 = 40 \rightarrow 4 \times 10 = 40$$



a. $10 + 10 + 10 = \underline{\hspace{2cm}}$

$$\underline{\hspace{2cm}} \text{ ngeenqhema ze-}10 = \underline{\hspace{2cm}} \rightarrow \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

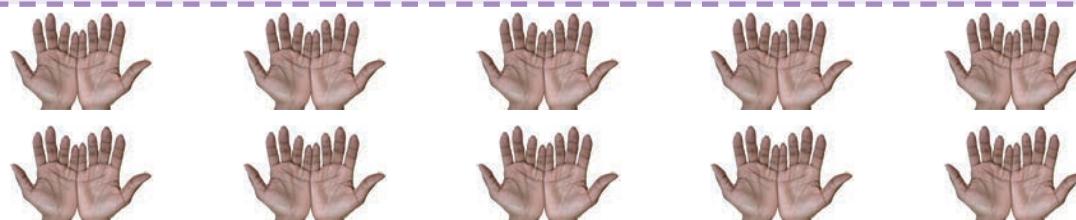


b. $10 + 10 + 10 + 10 + 10 + 10 + 10 = \underline{\hspace{2cm}}$

$$\underline{\hspace{2cm}} \text{ ngeenqhema ze-}10 = \underline{\hspace{2cm}} \rightarrow \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



Izandla nemino



Izandla ezingaki?

Imino emingaki?

Tlola ipendulo yakho ngeendlela ezi-2.

$$\underline{\hspace{2cm}} \text{ ngeenqhema ze-}10 = \underline{\hspace{2cm}}$$

begodu $\underline{\hspace{2cm}} \times 10 = \underline{\hspace{2cm}}$



Teacher:
Sign:
Date:

3a



Ilanga:

Ithemu |



Iinomboro phezu kwebhordo lamakhulu

Iinomboro ezikhulumako

Bala bewutjho zoke iinomboro kusukela ku-l – 100. Khomba nawulokhu ukhamba.

I	2	3	4	5	6		8	9	10
II									
						27			
				34					
41									
				55					
			63						
71									
					86				
			94						100



- Tlola inomboro etlhayelako ngebhlogweni ngalinye elihlaza kwesibhakabhaka.
- Tlola ngaphakathi kwezinye iinomboro.
- Sizibiza ngaliphi iinomboro ezisarulani?



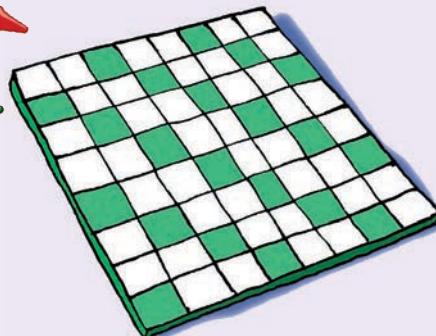
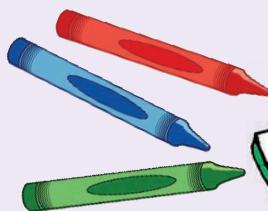
Tlola iinomboro ngamagama

90	amatjhumi athobako	41	
77		56	
14		65	



Ukubala nokukhalara

Lungela ukubala umbala!



I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	I0
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50
5I	52	53	54	55	56	57	58	59	60
6I	62	63	64	65	66	67	68	69	70
7I	72	73	74	75	76	77	78	79	80
8I	82	83	84	85	86	87	88	89	90
9I	92	93	94	95	96	97	98	99	I00

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	I0
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50
5I	52	53	54	55	56	57	58	59	60
6I	62	63	64	65	66	67	68	69	70
7I	72	73	74	75	76	77	78	79	80
8I	82	83	84	85	86	87	88	89	90
9I	92	93	94	95	96	97	98	99	I00

I	2	3	4	5	6	7	8	9	10
II	I2	I3	I4	I5	I6	I7	I8	I9	I0
2I	22	23	24	25	26	27	28	29	30
3I	32	33	34	35	36	37	38	39	40
4I	42	43	44	45	46	47	48	49	50
5I	52	53	54	55	56	57	58	59	60
6I	62	63	64	65	66	67	68	69	70
7I	72	73	74	75	76	77	78	79	80
8I	82	83	84	85	86	87	88	89	90
9I	92	93	94	95	96	97	98	99	I00

Bala begodu
uvale ama-10.

Bala ngokuvala abo-5
kusukela ku-O ukuya
e-100.

Bala bewuvale aba-2.

Bala ngama-10 kusukela
ku-10 ukuya e-100.

Bala ngaku-5 kusukela
ku-5 ukuya e-100.

Bala ngaku-2 kusukela
ku-2 ukuya e-100.

Tlola ama-10
ukuya e-100.

Tlola ngaku-5
ukuya ema-80.

Tlola ku-2
ukuya ema-100.



Teacher:
Sign:
Date:

11 12 13 14 15 16 17 18 19 20

3b

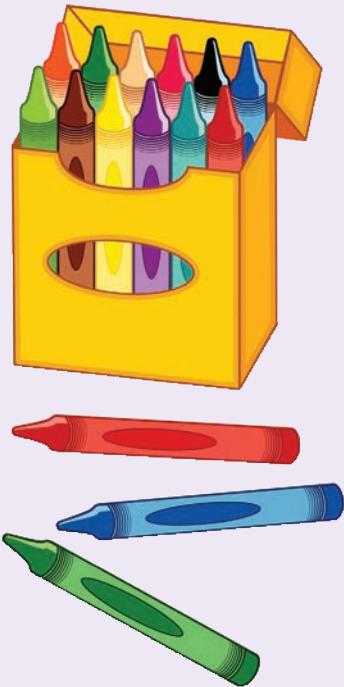
Ilanga:

Ithemu |



Qala amaphetheni

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
51	52	53	55	55	56	57	58	59	60
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



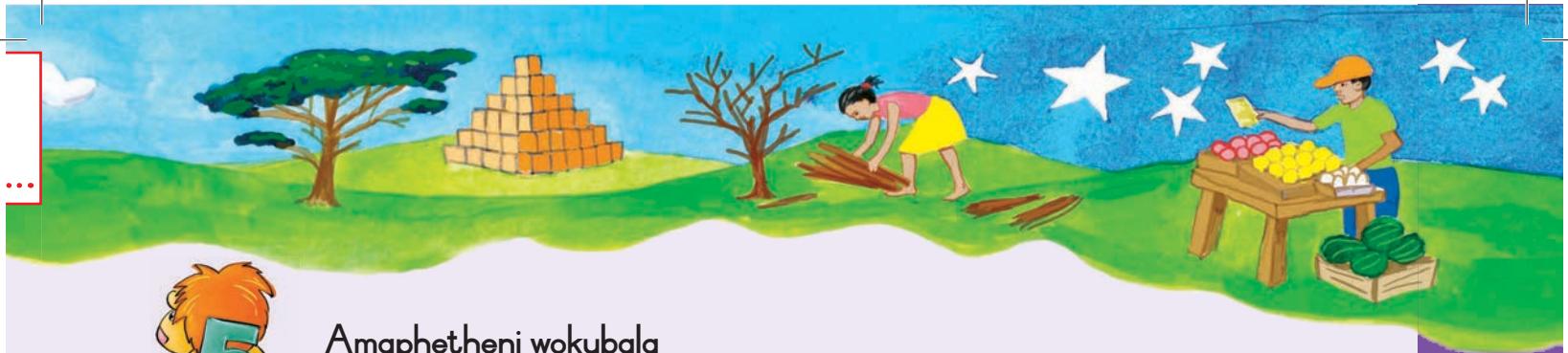
Thikha (✓) woke ama-10.

Tshwaya koke (X)
okungaku-5 ngokubeka
isiphambano.

Ndulungela (O) koke
okungaku-2.

Tlola iinomboro ezimaphetheni wangaku-2 nezingaku-5.

1 2 3 4 5 6 7 8 9 10



Amaphetheni wokubala

Zalisa iinomboro ezitlhayelako.

0; 10; 20; _____; _____; 50; _____; _____; 80; _____; 100; _____;
_____; 130; _____; _____; 160; _____; _____; _____; 200

0; 5; 10; _____; _____; 25; _____; _____; 40; _____; 50; 55; _____;
_____; 70; _____; _____; 85; _____; _____; 100

0; 2; 4; 6; _____; _____; 12; _____; _____; 18; _____; 22; 24; _____;
_____; 30; _____; _____; 36; 38; _____; _____; _____; 46; _____;

0; _____; 8; _____; 16; 20; _____; 28; _____; 36; _____; _____; _____;
52; _____; _____; 64; _____; 72; _____; 80

0; _____; 10; _____; 20; _____; 30; _____; 40; _____; _____; 55;
60; _____; 70; 75; _____; 85; _____; _____; 100

0; 3; _____; 9; _____; 15; 18; _____; 24; _____; _____; 33; _____; 39;
_____; 45; _____; _____; 54; 57; _____; 63; _____; _____; 72; 75





Ilanga:

Ubukhulu bedijidi



Tjengisani iinomboro zenu

Sika amakarada weenomboro kusukela enomborweni yabo Sika-I.
Sebenzisani amakarada ukwakha iinomboro lezi.

19

43

69

54

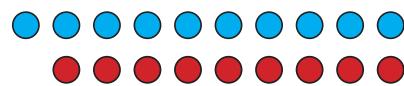
35

10

q



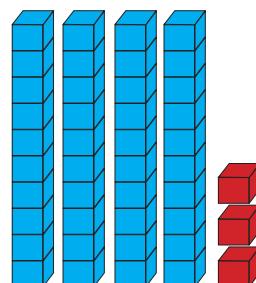
19



10 q

$$10 + 9 = 19$$

43



10
10
10
10 q

$$40 + 3 = 43$$

Kwanje zenzele wena ngokwakho ngeenomboro lezi usebenzise uSika-I.

54

35

69



Tlolani iinomboro lezi

Sesinenzele yokuthoma.

Singatjho godu
kobana abo-l
abali-q

Iq	$10 + q$	itjhumi li-l + q kanye	itjhumi nethoba
43			
69			
54			
35			
21			
73			
44			
32			
89			
17			
95			
56			
68			
67			



Tlolani iinomboro ezhlanu ngokulandelana kusukela kencani khulu
ukuya kekulu khulu

_____;	_____;	_____;	_____;	_____;
--------	--------	--------	--------	--------



5



Ilanga:

**Iositolo sakaLebo**

Ekuseni uLebo uneempakana ezima-19 zama-apula.

Ngesikhathi sesidlo semini sele asele neempakana ezili-13.

a. Ingabe uLebo uthengise iimpakana ezingaki? _____

b. Tlola ipendulo yakho njengenomboro yomutjho.

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



Tlola enye inomboro yomutjho ukutjengisa ipendulo efanako.

$$15 - 9 = 6 \quad \underline{\quad} - \underline{\quad} = \underline{\quad}$$

**Nombora**

Tlola iimpendulo.

$$1 + 2 = 3$$

Sebenzisa...
+ - =

$10 + 5 =$ <input type="text"/>	$11 + 6 =$ <input type="text"/>	$14 - 9 =$ <input type="text"/>	$14 - 8 =$ <input type="text"/>
$11 + 5 =$ <input type="text"/>	$17 + 2 =$ <input type="text"/>	$19 - 7 =$ <input type="text"/>	$14 - 5 =$ <input type="text"/>
$12 + 6 =$ <input type="text"/>	$3 + 13 =$ <input type="text"/>	$16 - 5 =$ <input type="text"/>	$16 - 13 =$ <input type="text"/>
$17 + 2 =$ <input type="text"/>	$4 + 15 =$ <input type="text"/>	$15 - 10 =$ <input type="text"/>	$19 - 7 =$ <input type="text"/>

**Nombora imindeni**

5	9	14
---	---	----

Nanzi iimbonelo zeenomboro yemindeni.

$$9 + 5 = 14$$

$$5 + 9 = 14$$

$$14 - 9 = 5$$

$$14 - 5 = 9$$



Uyayibona yoke iminden'i yabo-14?

$1 + 13 = 14$	$13 + 1 = 14$	$14 - 1 = 13$	$14 - 13 = 1$
$2 + 12 =$			
$3 + 11 =$			
$4 + 10 =$			
$5 + 9 =$			
$6 + 8 =$			
$7 + 7 =$			



Ngiyokwenza
okufanako nge-12.

12

$1 + 11 = 12$		
$2 + 10 = 12$		
$3 + 9 = 12$		
$4 + 8 = 12$		
$5 + 7 = 12$		
$6 + 6 = 12$		



6



Ilanga:

.....

Ithemu |

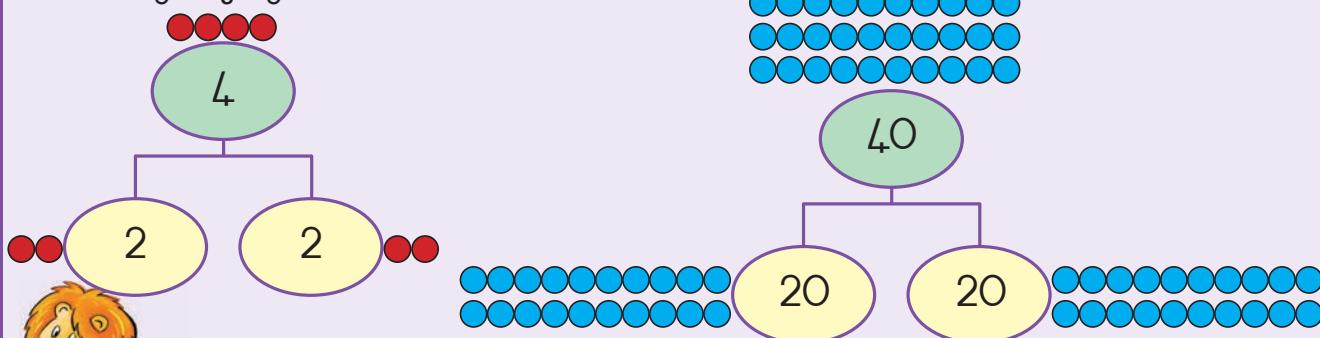
Ukubuyeletwa kibili nokuhafula

Niyakhumbula?

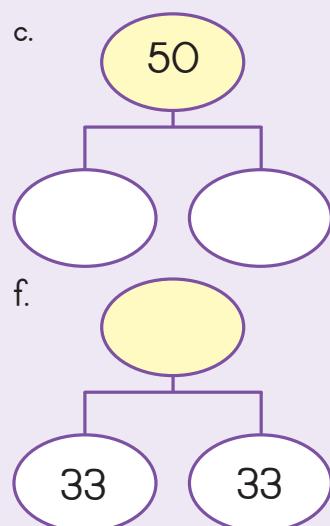
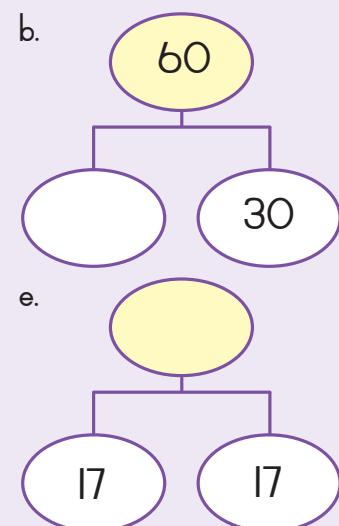
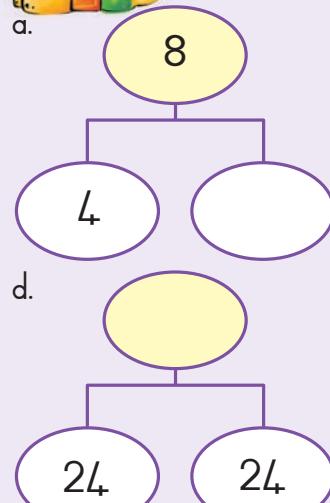
Ukubuyeleta ku-2 kwenza ku-4
ku-4 kukubuyeletwa kibili kwaku-2

Ukubuyeleta ku-20 kwenza ku-40
ama-40 akubuyeletwa kibili kwama-20

Lokhu singakutjengisa emdwebeni ...



Fumanani okubuyeletwe kibili namkha abohafu



Iselele

Fumanani ihafu yaku-3

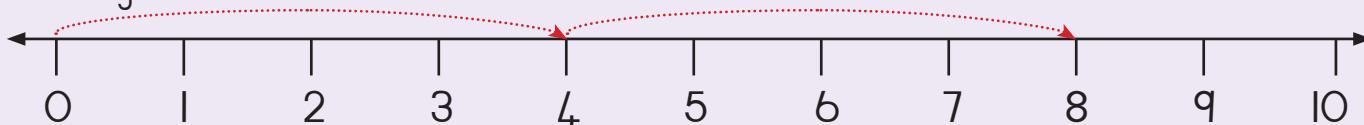
Tjengisani njengenomboro namkha ibizo lenomboro.
Umqwalo ungakusiza.

.....

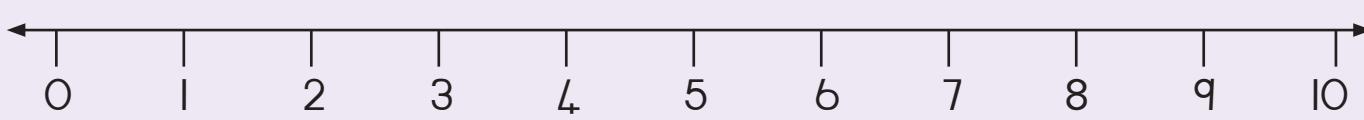


Buyelela inomboro usebenzise inambalayini.
Wenzelwe isibonelo.

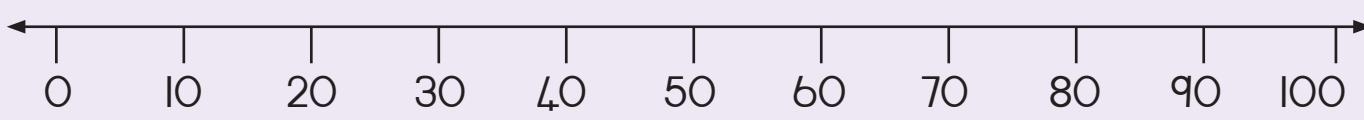
a. Buyelela abo-4 + =



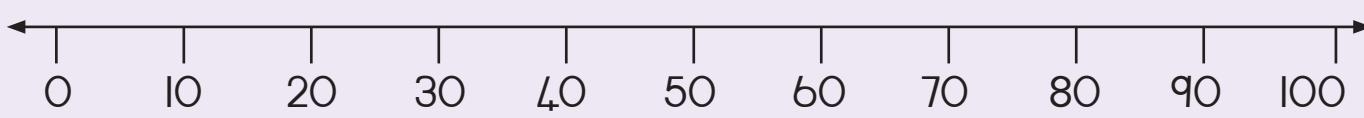
b. Buyelela abo-5 + =



c. Buyelela abo-20 + =



d. Buyelela abo-40 + =



Qedelela okulandelako

- | | |
|--------------------|--------------------------------|
| a. Buyelela abo-1 | <input type="text" value="2"/> |
| b. Buyelela abo-6 | <input type="text"/> |
| c. Buyelela abo-10 | <input type="text"/> |
| d. Buyelela abo-30 | <input type="text"/> |
| e. Buyelela abo-50 | <input type="text"/> |



Qedelela okulandelako

- | | |
|------------------|--------------------------------|
| a. Ihafu yaka-6 | <input type="text" value="3"/> |
| b. Ihafu yaka-8 | <input type="text"/> |
| c. Ihafu yaka-14 | <input type="text"/> |
| d. Ihafu yaka-60 | <input type="text"/> |
| e. Ihafu yaka-70 | <input type="text"/> |





Ilanga:

Amacezu

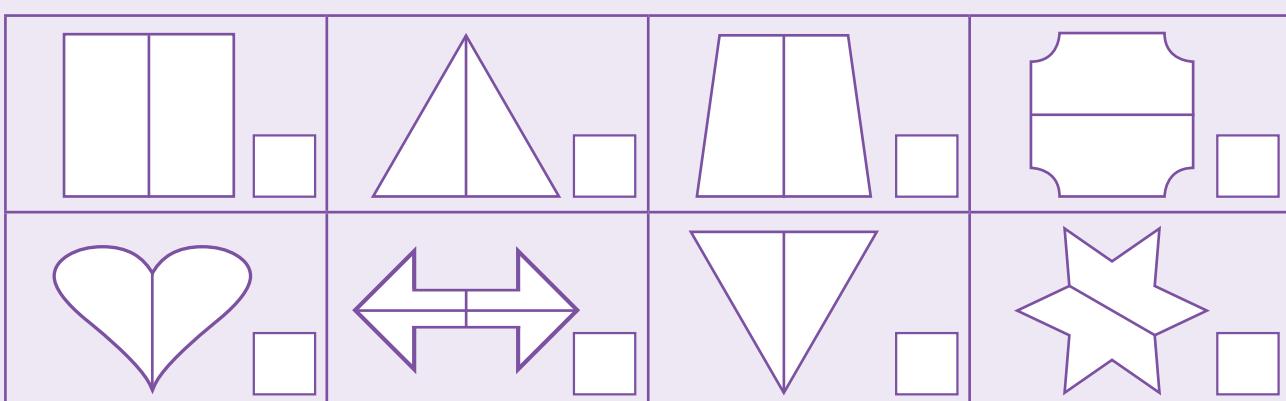
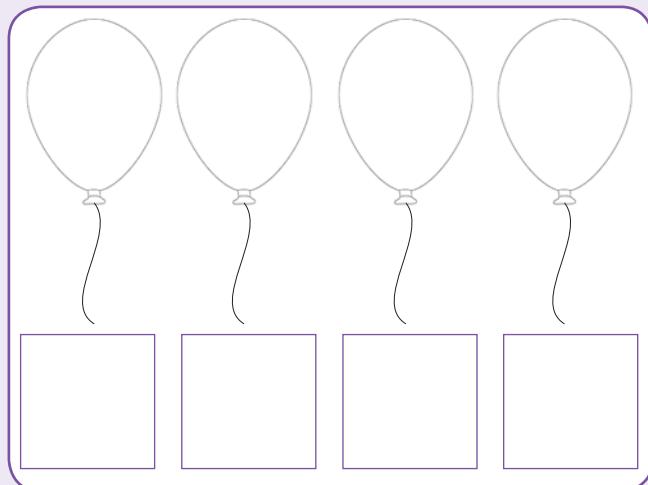
Faka umbala iktara yamabhaloni ngokubovu bese kuthi asalako abe ngokuhlaza sasibhakabhaka.

Faka umbala obovo encencyeni eyihafu yebhoksi.



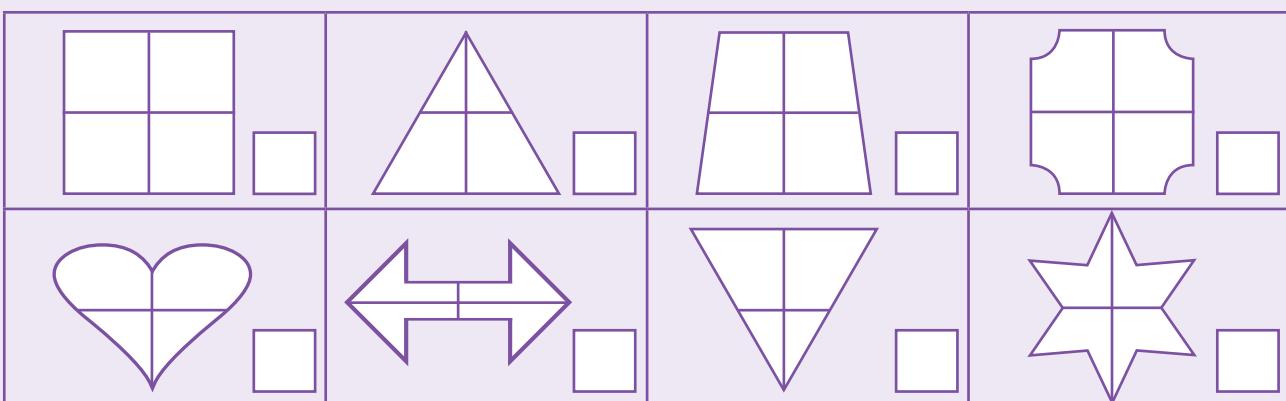
Qala amajamo. Tshwaya amajamo atjengisa abohafu.

Faka umbala engcencyeni enye nenyeye eyehlukaniswe yaba yihafu.



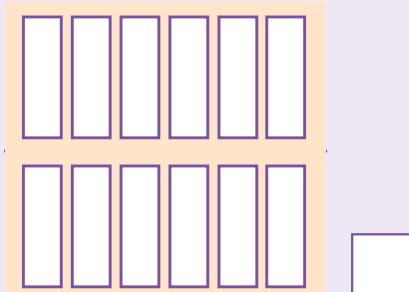
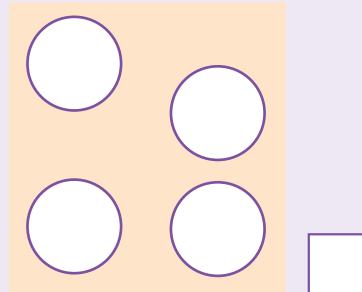
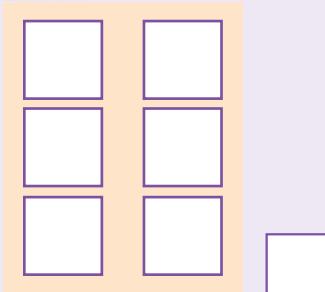
Qala amajamo. Tshwaya amajamo atjengisa amakota.

Faka umbala ikota enye nenyeye yamajamo ahlukaniswe aba makota.

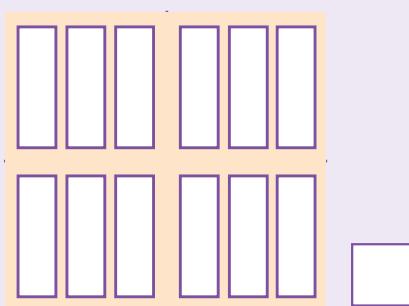
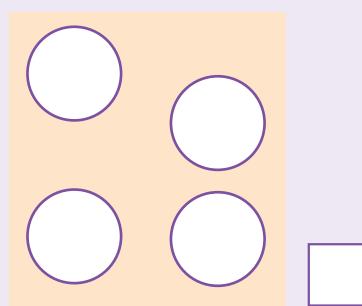
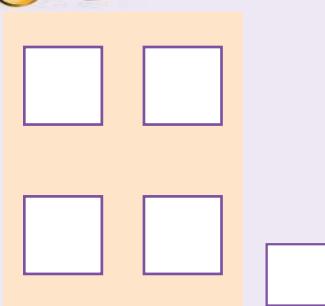




Faka umbala ihafu yamajamo. Iyini ihafu yenani lamajamo?



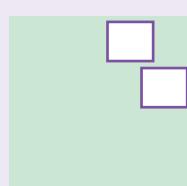
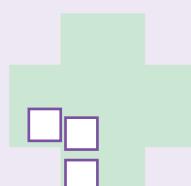
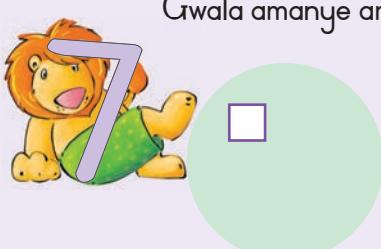
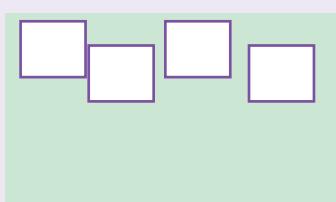
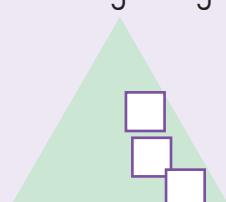
Faka umbala ikota yamajamo. Iyini ikota yenani lamajamo?

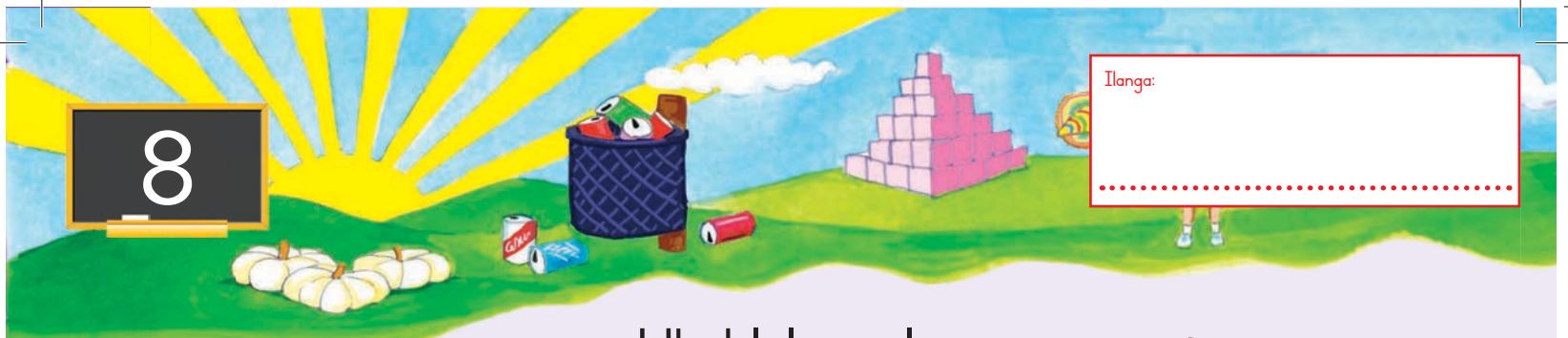


Tlola itshwayo lecezu.

ihafu eyodwa

ikota eyodwa





Ilanga:



Ukuhlela imali



Esitokfeleni

UMma Lubisi ubala begodu ahlukanisele isiqhema imali.



Linganisa inani lemali. R _____

Bala imali. R _____

Madanisa,
ulinganise begodu
ufunyane ithothali.



Ukubulunga imali

UGugu ubulungela ipara yamanyathelo ebiza-R89.

Bekube nje selanehafu yemali.

Ingabe usatlhoga malini ngaphezulu?

Tlola inomboro yomutjho ukutjengisa ipendulwakho.





Ebhanga

UMaria wehlukanise imali yamaphepha
ngamabuthelelo wama-5.
"Usele nenyi imali yamaphephe."
Tlola amathothali wesithombe ngasinye.



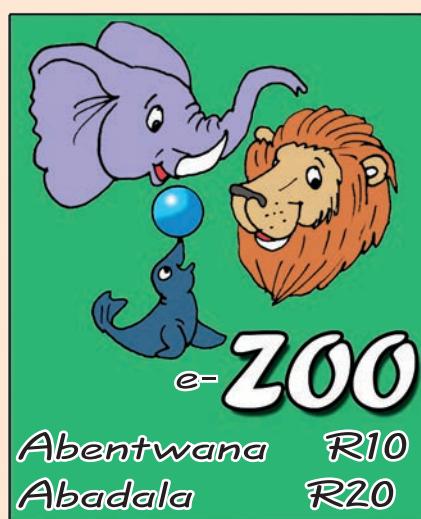
Inani

	R _____
	R _____
	R _____



Iselele

Ivakatjho lokuya e-zoo
Abanye abantu abadala nabentwana baya e-zoo.
Bathenga amathikithi nge-R90.
Ingabe abentwana bangaki? _____
Ingabe abantu abadala bona bangaki? _____
Ingabe ikhona enye ipendulo?
Abadala _____ Abentwana _____





Ilanga:

.....

Ithemu |



Amaphetheni

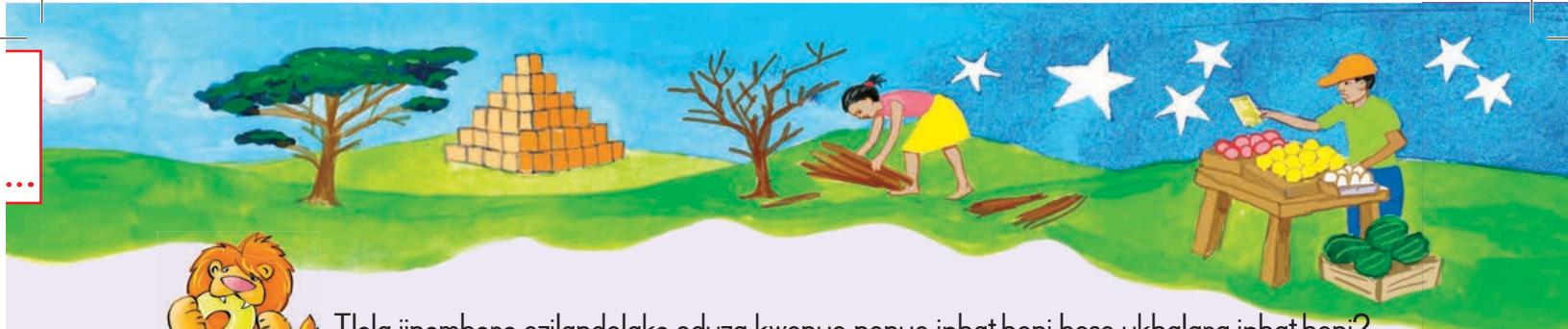
Sebenzisa ibhodi yeenomboro ezima-200 ukuphendula imibuzo.

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
51	52	53	54	55	56	57	58	59	60
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
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200



Sebenzisa ibhodi yeenomboro ezima-200 ukuqedelela amaphetheni weenomboro bese ufaka umbala iphetheni ebhodini yeenomboro.

105, 110, 115, _____	87, 90, 93, _____
36, 40, 44, _____	184, 186, 188, _____
70, 65, 60, _____	138, 135, 132, _____
180, 176, 172, _____	14, 12, 10 _____



Tlola iinomboro ezilandelako eduza kwenye nenyе iphatheni bese ukhalara iphatheni? Khujini okubonako ngeenomboro ezi khalawwe ngokufanako?

Ukubala ngakuhlanu.

Ukubala ngakubili.

Ukubala nqakuthathu.

Ukubala nqalitjhumi.



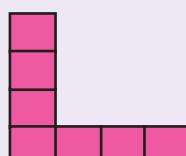
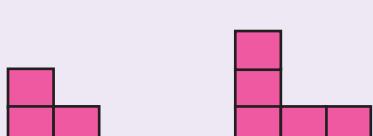
Yelula amaphetheni.



For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at john.smith@researchinstitute.org.



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A large, empty rectangular frame with a thick black border, centered on a white background.



10

Ilanga:

Ithemu I

Imbholo, amabhoksi kanye namasilinda



Ndulungela amabhoksi ngombala ohlaza sasibhakabhaka, iimbholo ngokubomvu bese kuthi amasilinda abe hlaza satjani.



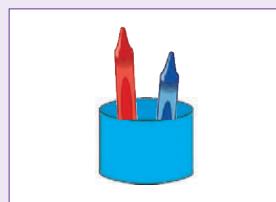
Faka umbala ngependulweni enembako.



Ibhoksi

liyatjhelela

liyagedeka



Isilinda

liyatjhelela

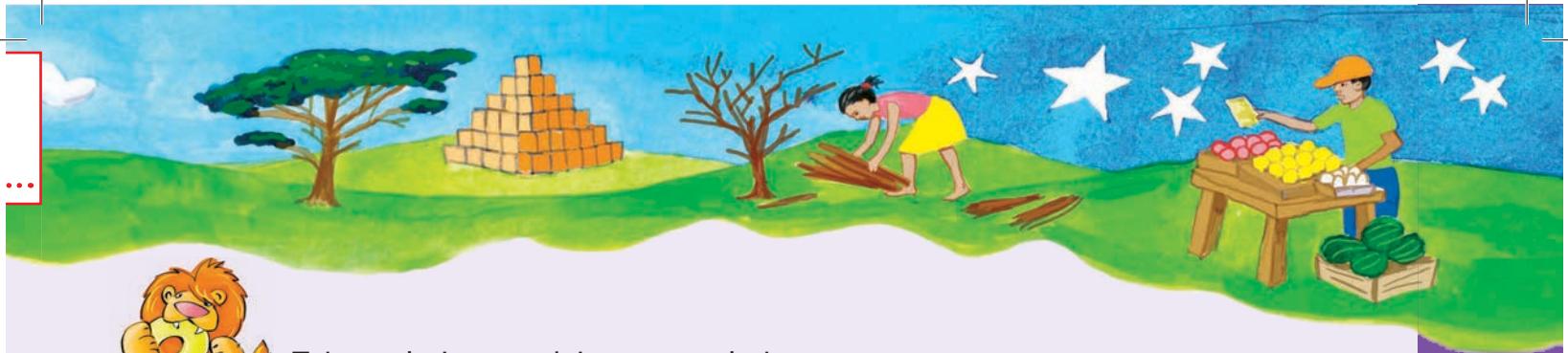
liyagedeka



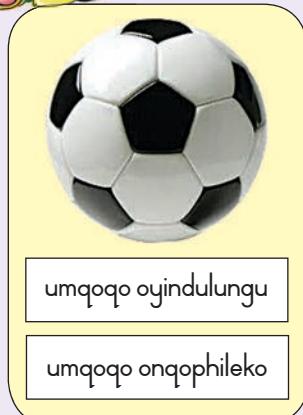
Ibholo

liyatjhelela

liyagedeka



Faka umbala ependulweni enembako.



umqoqo oyindulungu

umqoqo onqophileko



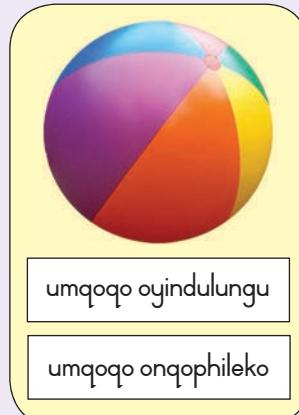
umqoqo oyindulungu

umqoqo onqophileko



umqoqo oyindulungu

umqoqo onqophileko



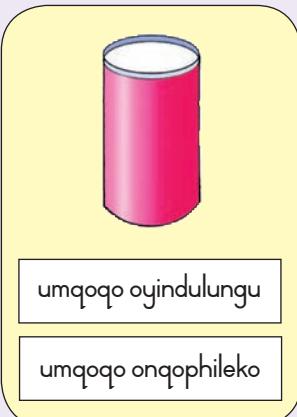
umqoqo oyindulungu

umqoqo onqophileko



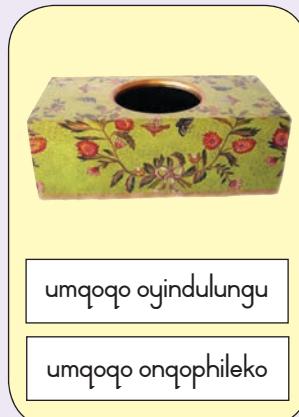
umqoqo oyindulungu

umqoqo onqophileko



umqoqo oyindulungu

umqoqo onqophileko



umqoqo oyindulungu

umqoqo onqophileko

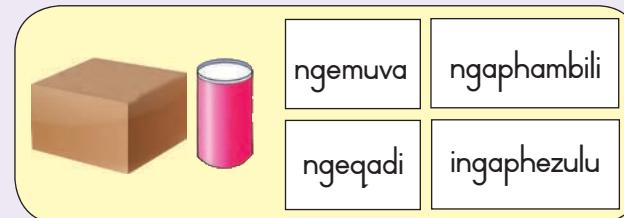
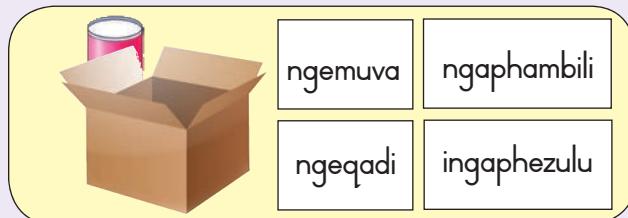
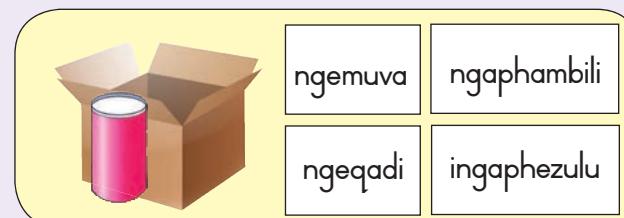
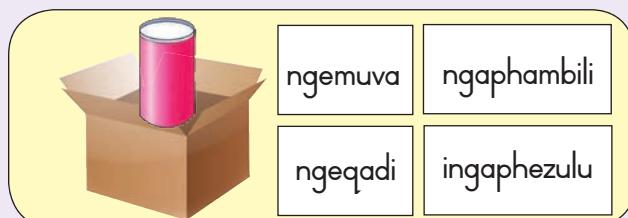


umqoqo oyindulungu

umqoqo onqophileko



Yitjho nangabe ibholo ingemuva, ngaphambili, ingeqadi nanyana
ingaphezulu kwebhoksi.



<input type="radio"/>
<input type="checkbox"/>
<input type="triangle"/>
<input type="bag"/>

Teacher:
Sign:
Date:



Ilanga:

Ithemu |



Dweba amabumbeko

Uncantathu

Isiyungi /
Indulunga

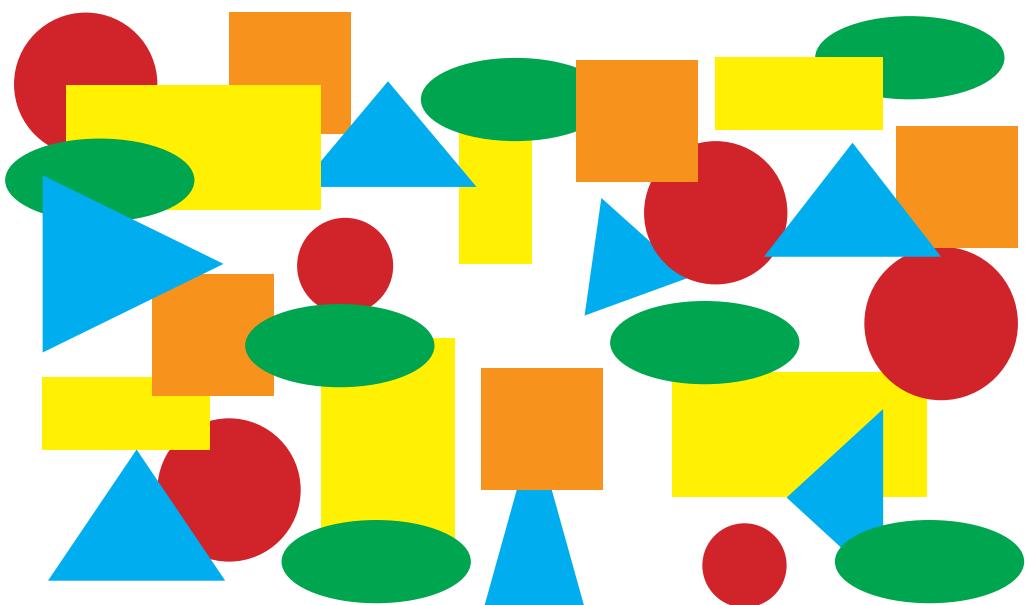
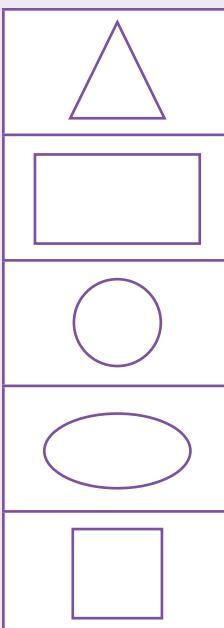
Isikwere

Ncazine



Bala amabumbeko

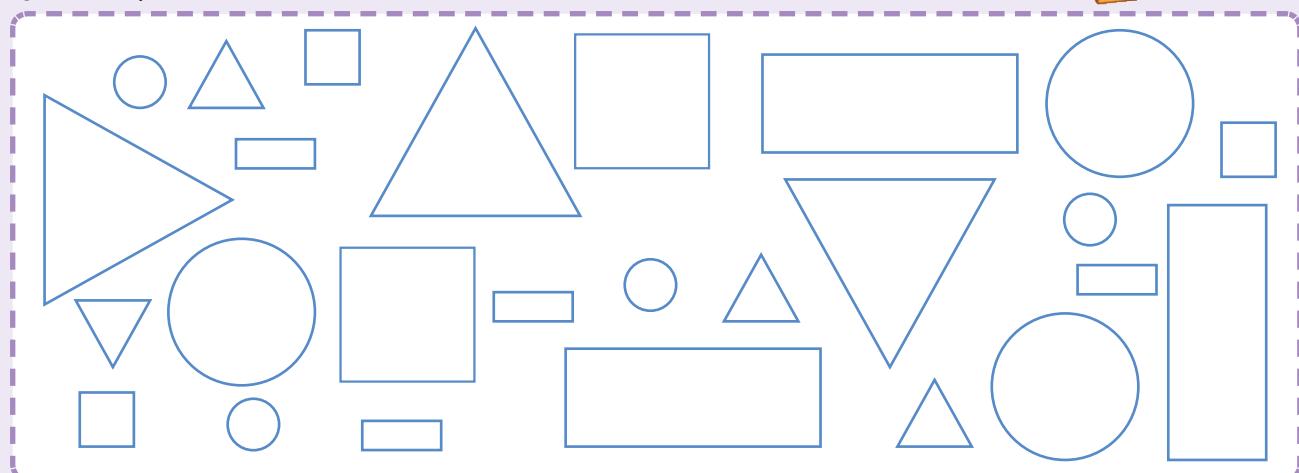
Bala kobana mangaki amabumbeko afana nalawa ongawafumana esithombeni.





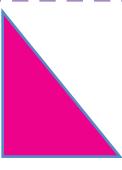
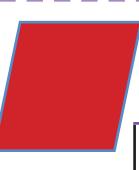
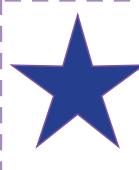
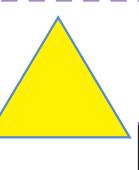
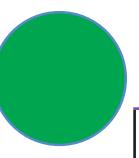
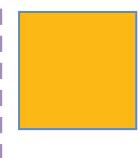
Faka umbala:

iijingi ezikulu ngombala obomvu, iijingi ezincani ngombala ohlaza satjani;
aboncantathu abakhulu ngombala ohlaza sasibhakabhaka, ezincani ngombala o-orontji;
iinkwere ezikulu ngokusarulani, ezincani ngokuphephuli;
amarekthengela amakhulu ngombala ozotho bese kuthi amarekthengela amancani abe
ngombala opinki.



Mahlangothi amangaki?

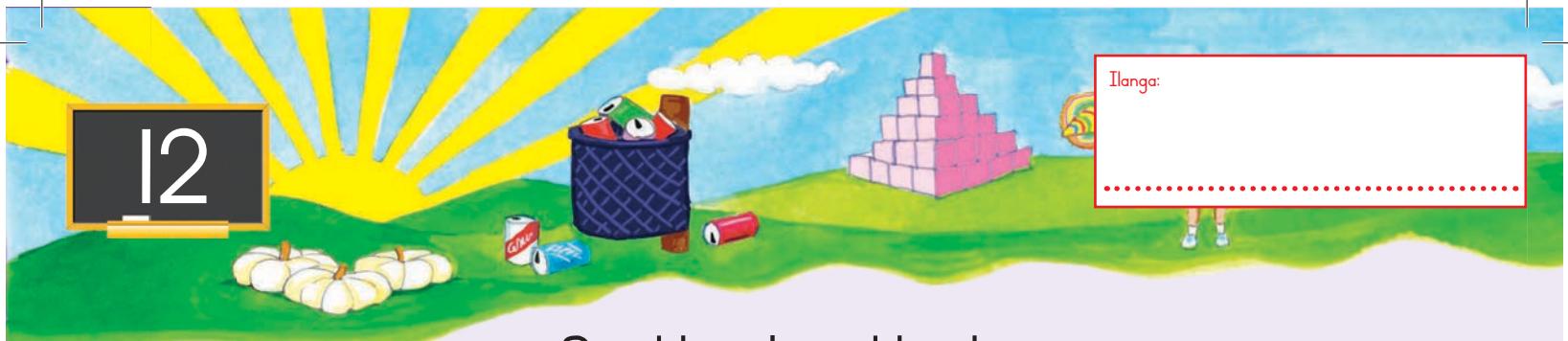
Ibumbeko ngalinye linamahlangothi amangaki? Tlola inomboro ebumbekweni. **Isibonelo wenzelwe.**
Ingabe amahlangothi anqophile nanyana ayindulunga? Faka umbala ependulweni enembako.

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



Teacher:
Sign:
Date:

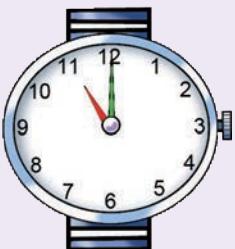
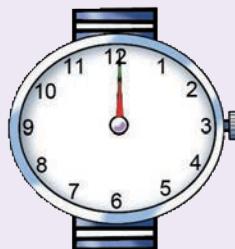
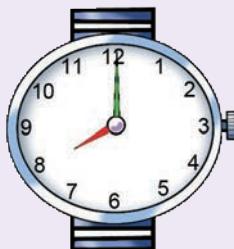
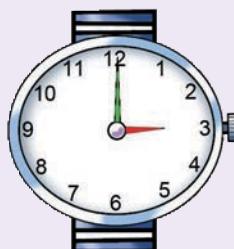
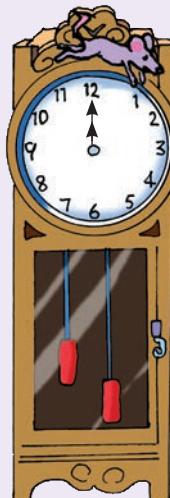
12



Ilanga:

**Fundani isikhathi**

Atjengisa siph i isikhathi amawatjhi la?

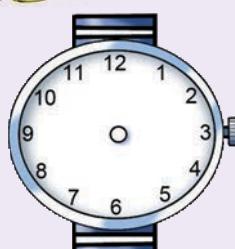
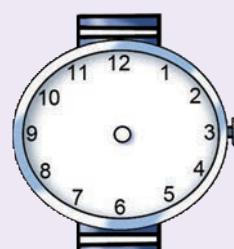
 Ehloko Ehloko Ehloko Ehloko**Yeqani magegana newatjhi**Sizani uMinnie Mouse ukubala imizuzu ngaku-5.
Thomani e-12. Ragelani phambili nizombeleza.

Nibala imizuzu emingaki? _____

Mizuzu emingaki ese-irini li-1? _____

**Tlolani isikhathi**

Gwala imikhono ukutjengisa iinkhathi.

ikotara ngemva
kwe-iri-6sigamu ngemva
kwe-iri-8ikotara ngaphambili
we-iri-11isigamu ngemva
kelesi-5



UTumi uya esikolweni.



Usuka ekhaya.



Ufika esikolweni.

Ingabe uTumi uthatha isikhathi esingangani? _____



Ilanga lokubhaga

UMaria ubhaga uburotho.



Uburotho buya
nge-ondweni.



Uburotho
buyaphuma.



Uburotho buthatha imizuzu e _____ ukubhagwa.



Iselele

Esikhathini esibuyeletwe kibili

- Tjhugululani ama-iri abe mizuzu.

Ama-iri	1	2	4	8
Imizuzu	60			

Ngingakghona
ukubona amaphetheni.



- UJabu uthatha imizuzu ema-4.5 ukufika esikolweni. UTumi uthatha isikhathi esibuyeletwe kibili. UTumi uthatha ama-iri amangaki ukufika esikolweni? _____



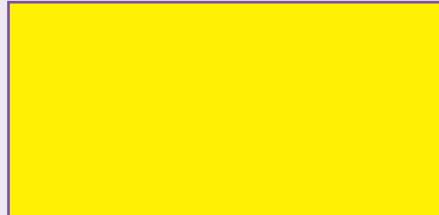
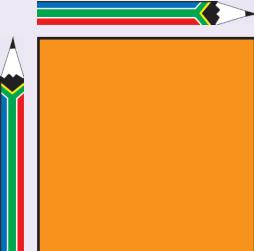
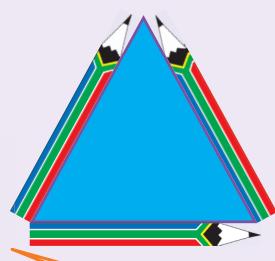
Teacher:
Sign:
Date:

13

Ilanga:

Ithemu |

Ukulinganisa ubude



Kukoke, amahlangothi
woke wethrayengeli
le, alingana nobude
beempensela e-3.

Kukoke,
amahlangothi
wesikwere alingana
nobude
beempensela e-4.



Ngiyazibusa kobana
irekthengela yide
begodu ibanzi
kangangani?

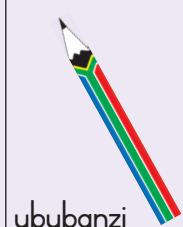
Zingaki iimpensela ezisebuden'i berekthengela?



Zingaki iimpensela ezisebubanzini berekthengela?



ubude



ububanzi

Uzisebenzise njani iimpensela ukubala?

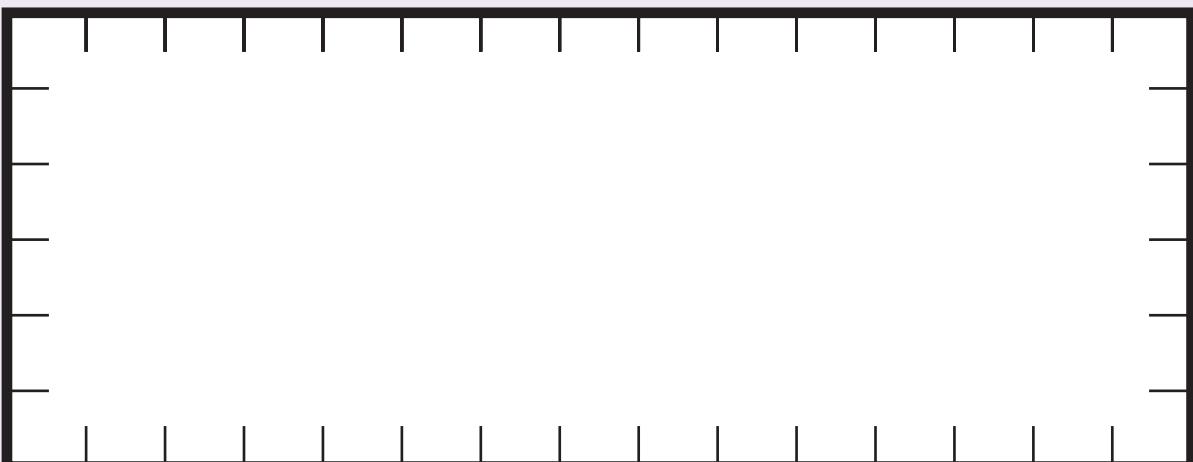


Ubude obufihlakelko

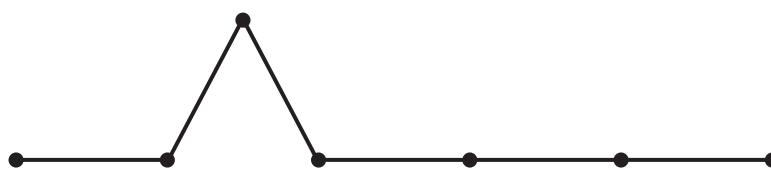
- a. Ingabe utlhoga imida emingaki ebovu ukwembesa umuda onzima?



- b. Ingabe utlhoga imida emingaki ebovu ukwembesa uncantathu woke?



- c. Ngijiphi edenyana, indlela engaphenzulu namkha engaphasi, namkha ingabe ziyafana?



Ipendulo _____

Kubayini? _____



Teacher:
Sign: _____
Date: _____



Ilanga:



Umthamo

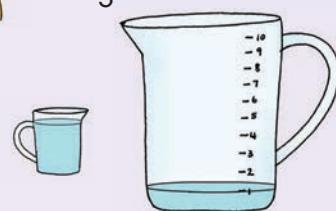
Sengifake amakhezo
amane ngekomitjini

Ziinkomiki ezingaki zamanzi ezizokuzalisa isimumathi?



Ziinkomiki ezingaki zamanzi ezingesimumathini? Uzokutlhoga ezinye iinkomitjhi
ezingaki ukuzalisa isimumathi?

a.



Ngaphakathi kwesimumathi:

Utlhoga amanye:

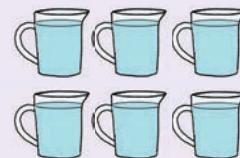
b.



Ngaphakathi kwesimumathi:

Utlhoga amanye:

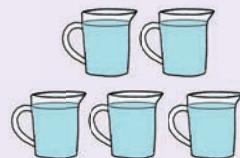
c.



Ngaphakathi kwesimumathi:

Utlhoga amanye:

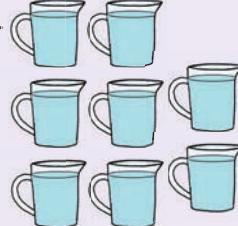
d.



Ngaphakathi kwesimumathi:

Utlhoga amanye:

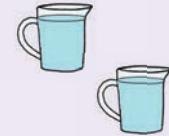
e.



Ngaphakathi kwesimumathi:

Utlhoga amanye:

f.

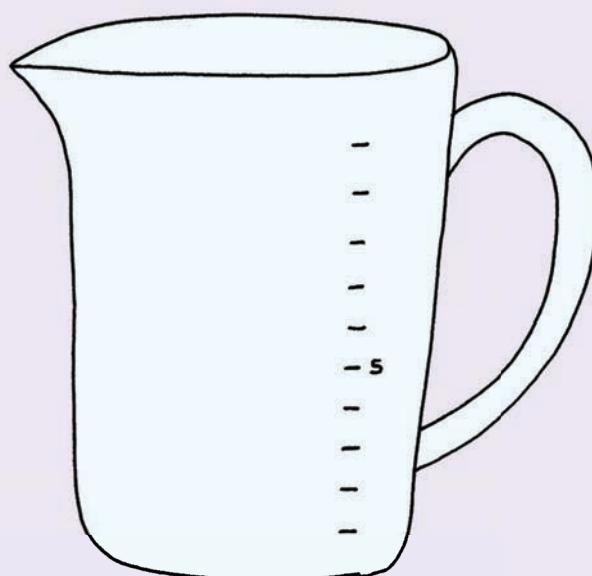


Ngaphakathi kwesimumathi:

Utlhoga amanye:



Tlola ama-inthavali ejegeni. Sikutlolele ama-inthavali ama-5.
Zaliselela amanye ama-iinthavali

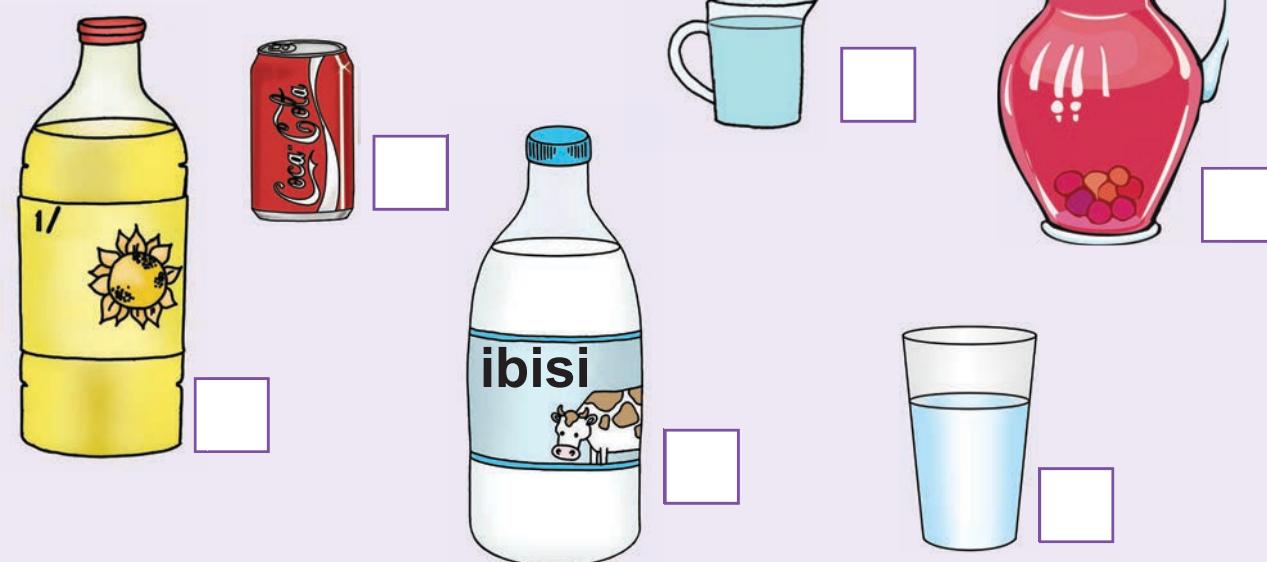


Nangabe ikomiki eyodwa ijegede eyodwa
bekube ku-inthavali yesi-2, uzokutlhoga
iinkomiki ezingaki ukuzalisa ijegede?

- 4 _____
- 6 _____
- 8 _____
- 10 _____



Tshwaya kobana ngisiphi isimumathi esingamumatha ilitha e-l yamanzi.



15

Ilanga:

Ithemu |

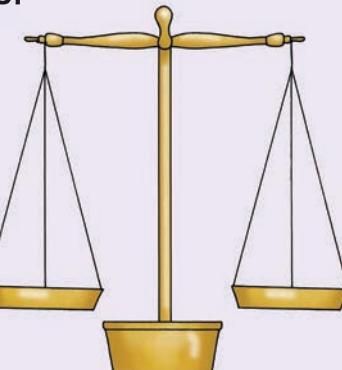


Asimede isisindo sethu!

Ukufumana ubungako bethu, **ubudisi** namkha **ukubalula**,
sisebenzisa isikala.

Simeda ubungako **ngamakhilogremu**.

Sisebenzisa isirhunyezwesi: kg. Ngubani onobudisi obungaphezulu?



41 kg



38 kg



41 kg



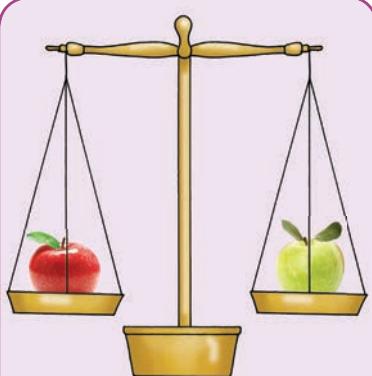
42 kg



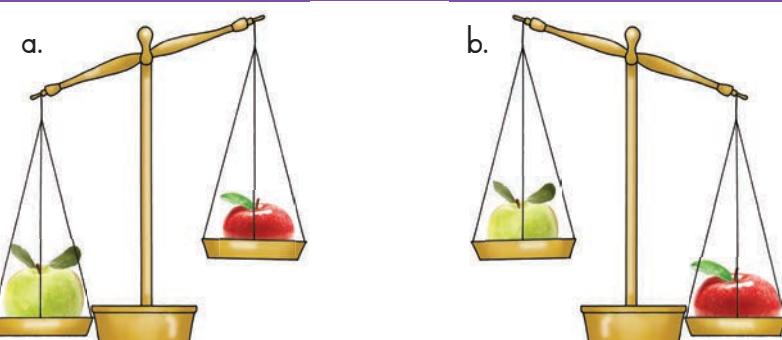
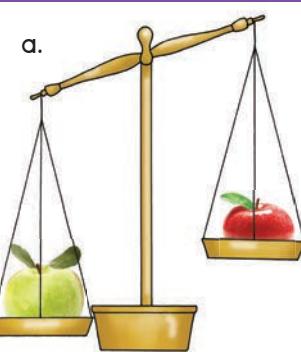
39 kg



Sisebenzise isikala sokubhalansa ukumeda ubudisi



Esikaleni lesi, womibili ama-apula akala ngokulingana.



Phendula imibuzo. Tlola u-a nanyana u-b

Kusesikalen i-siphi lapha i-apula elihlaza satjani
libudisi khona khulu ukudlula i-apula elibovu?

Kusesikalen i-siphi lapha i-apula elihlaza
satjani lilula khona kune-apula elibovu.



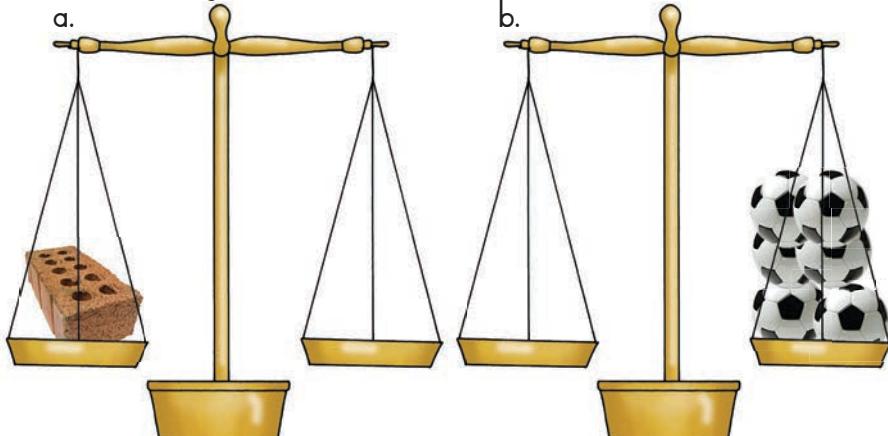
Bhalansisa iinkala.

Wenzelwe isibonelo.



Iintina ezimbili zinobudisi obulingana neentina ezine.

Gwala uveze kobana ziintina ezingaki nanyana iiimpholo ozidingako ukuze wenze isikali lesi sibhalanse/sizinze.

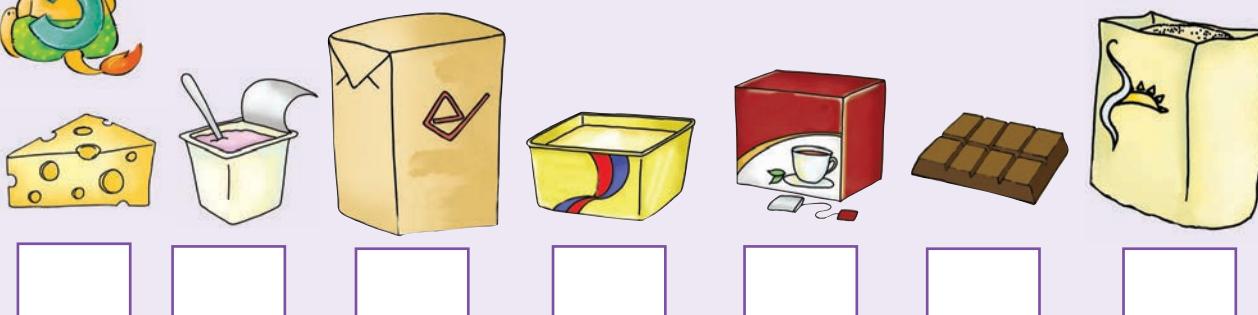


Nangabe iphasela eyodwa ikala 3 kg. Amaphasela ama 2 na-3 akala kangangan?

- Amaphasela ama-2 _____
 - Amaphasela ama-3 _____
 - Ngingakghona ukumeda amaphasela ama-4 ngasikhathi sinye kiso sona isikala sangekhwitjhini? _____
- Kungani? _____



Tshwaya impendulo enembako. Ngiyiphi into enesisindo esingaba li-lkg?



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

Teacher:
Sign:
Date:

16



Ilanga:

Ithemu |



Ukusebenza ngemininingwana

Amanyathelo ngetlasini



Funda indatjana.

UThabo: Hawu, Titjhere! uJack ulizimuzimu! Ufaka isayisi 6 yamanyathelo!

UKkz. Khoza: Kulungile! Iye, Thabo, yikulu khulu emntwaneni oneminyaka elithoba! Thabo, unesayisi bani yamanyathelo? Ingabe itlasi loke linamasayisi bani? Asenzeni irhubhululo!

Abafundi batjho amasayisi, ngamunye ngamunye.

UKkz. Khoza utlolola amasayisi lawo ebhodini.

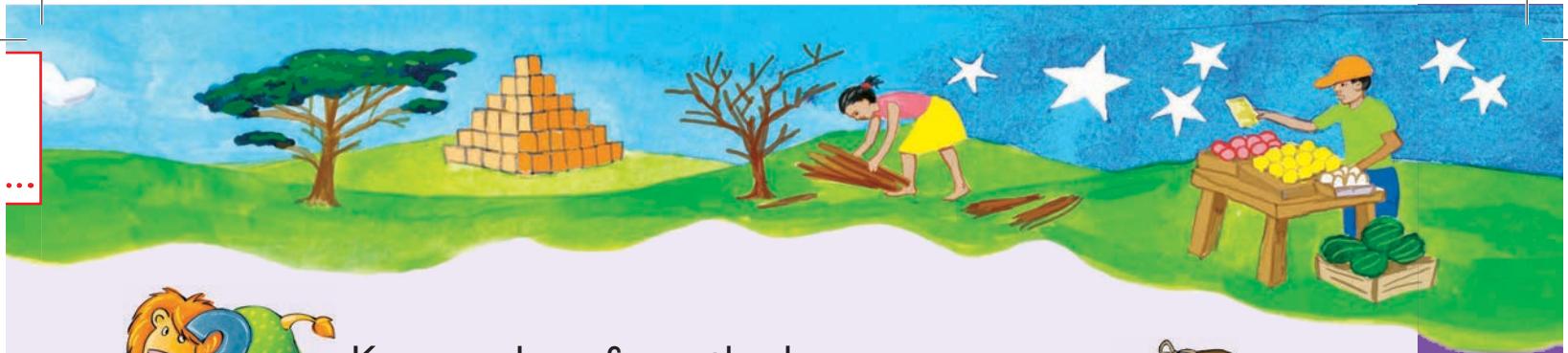
UKkz. Khoza: Bala, bese uytlolola amasayisi ngayinje ngetheyibuleni.

2	2	3	1	2	3	1	4	3	2	3
2	3	2	6	2	2	3	3	3	4	3
4	2	2	3	3	5	3	2	2	2	1
1	1	2	4	2	3	2	3	4	2	4
4	3	2	2	3	1	2	2	1	4	3

Zalisa ithebula engenzasi.

Amasayizi wamanyathelo ngetlasini

Isayisi 1	Isayisi 2	Isayisi 3	Isayisi 4	Isayisi 5	Isayisi 6



Kwanje gwala igrafu yeenthombe.



= umfundi-

Isayisi 1	Isayisi 2	Isayisi 3	Isayisi 4	Isayisi 5	Isayisi 6



Kwanjesi phendula imibuzo le.

- Abafundi abanengi bafaka amanyathelo wesayisi _____.
- Isibalo esimalwa sifaka isayisi _____.
- _____ abentwana bayazibandakanya erhubhululweni.

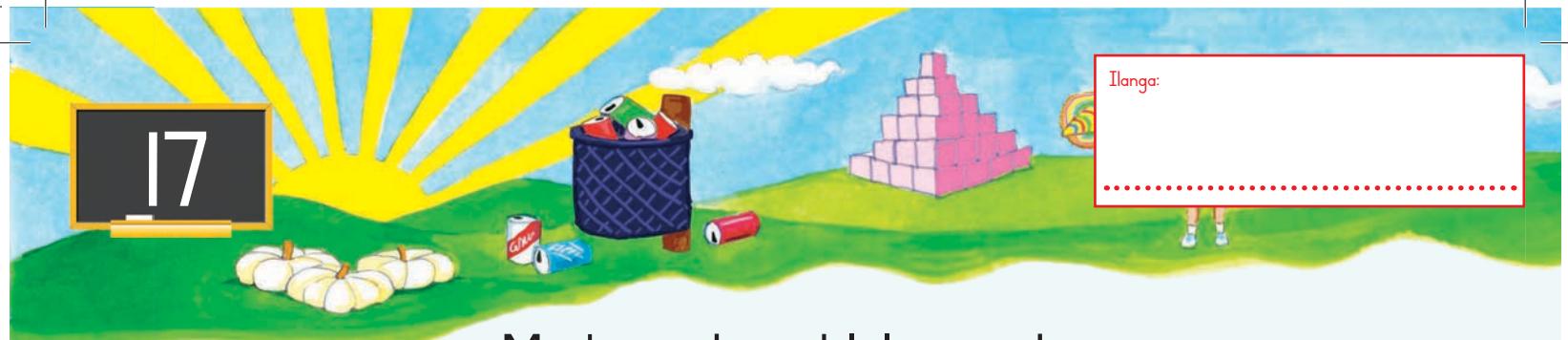


Kunjani ngawe?

Fumana kobana wena nabangani bakho nifaka isayisi bani!

- Sebenzani ngeenqhemza zangaba-6 ukuya kezangababu-8.
- Buthelelani imininingwana yenu.
- Tlolani isibalo samasayisi wamanyathelo ethebuleni.
- Madanisani iimpendulo nezinye iinqhemza.

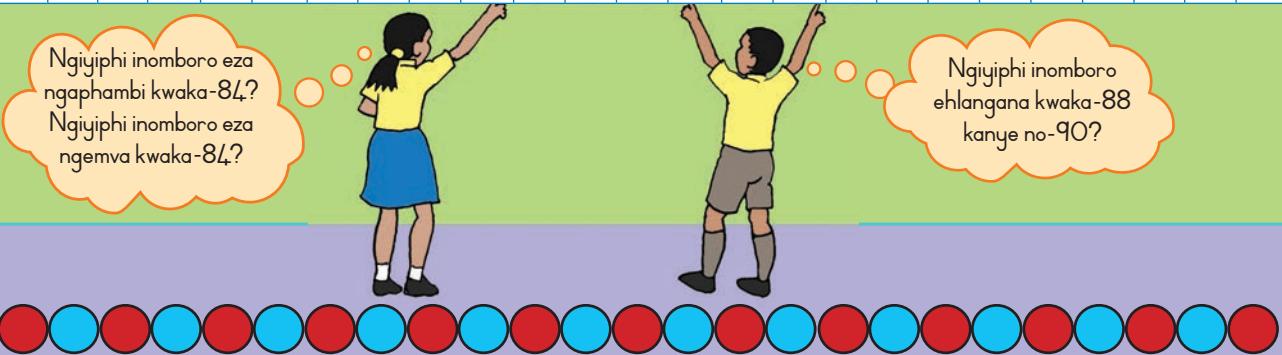




Madanisa bewuhlele iinomboro

Ilanga:

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



Zalisa ngeenomboro ezitlhayelako.

Sebenzisa ibhodi yeenomboro ukuphendula imibuzo.

- Ngiyiphi inomboro eza ngaphambi kuka-68? _____
 - Ngiyiphi inomboro elandela u-68? _____
 - Tlola iinomboro ezihanu ezincani kuno-71. _____, _____, _____, _____, _____
 - Tlola iinomboro ezihanu ezikulu kuno-71. _____, _____, _____, _____, _____
 - Ngiziphi iinomboro ezihangana kwaka-79 kanye no-84? _____
 - Tlola iinomboro kusuka kencani khulu kuye kekhulu. 73, 52, 50, 59, 61
 - Tlola iinomboro ukusuka kekhulu kuye kencani. 74, 96, 99, 91, 38



Qedelela itheyibula. Thoma ngenomboro onikelwe yona.

	Enye ngaphezulu	Encani ngaphasi	Ezinye ezilitjhumi	Ezilitjhumi ngaphasi
25				
39				
74				
56				
40				



Ndulungela inomboro ekulu khulu.

78	87	17	36	63	33
----	----	----	----	----	----

Ndulungela inomboro encani khulu.

99	19	9	14	41	40
----	----	---	----	----	----



Nangabe itshwayo < litjho okuncani kuna- bese kuthi itshwayo > litjho kobana kukhulu. Qedelela:

32	<	64	23	>	18
----	---	----	----	---	----

75		98	89		57
----	--	----	----	--	----



Funyana iinomboro ezi-5 ephephandaben iezihlangana kwaka-50 kanye no-99 bese uzinamathisela kusukela kencani ukuyo kekulu.



18

Ilanga:

Ithemu |

Ubukhulu beenomboro ukuya kuma-qq



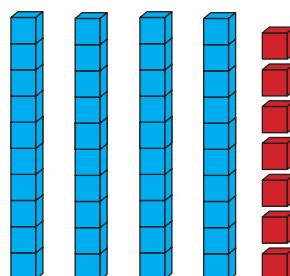
Ukutjengisa inomboro ngokusebenzisa izinto

Godu singakghona ukutjengisa iinomboro ngamabhlogo wethu weenomboro ezikulu. Ibhlogo elincani lijamele ku-l.
Umtletle wamabhlogo amancani ali-10 ajamele i-10. "Litjhumi"

Amatjhumi	Amayunidi
10	2
10	2

Ungatjengisa inomboro
ngokusebenzisa amatjhumi
namkha amayunidi.

Lapha yindlela yokutjengiswa kwama-47.



Amatjhumi	Amayunidi
4	7

Amatjhumi amane
nekomba-47



Ukutlola iinomboro ngamadjithi nangamagama

- a. Ngaphasi kwesithombe, tlola kobana kunamatjhumi amangaki begodu mangaki amayunidi.
Bese utlola inomboro ngamadjithi nangamagama.

Amatjhumi	Amayunidi	Amatjhumi	Amayunidi	Amatjhumi	Amayunidi
3	1				
31					
Amatjhumi amathathu nalinye					



2 0 6

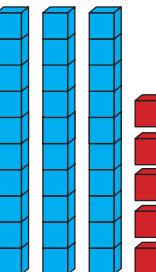
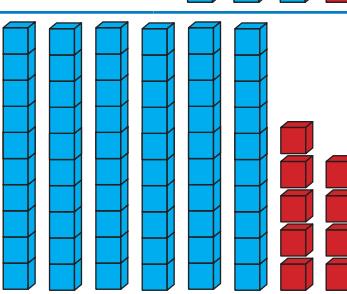
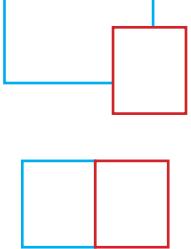
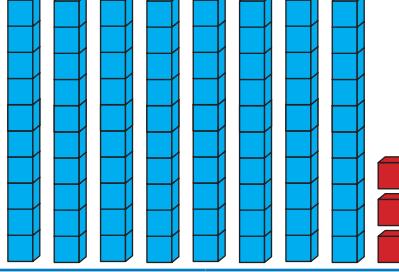
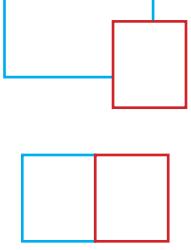
2 6

b. Godu singasebenzisa iinomboro zethu zamakarada ukutjengisa lokhu.

Nombora	Mangaki amatjhumi?	Mangaki amayunidi?	Tlola inomboro ngamagama
26	2	6	amatjhumi amabili nesithandathu
46			
qq			



Iyini inomboro?

	<p>3 0 5</p> <p>3 5</p>	<table border="1"> <tr> <td>Amatjhumi</td> <td>Amayunidi</td> </tr> <tr> <td>3</td> <td>5</td> </tr> </table> <p>Amatjhumi amathathu nahlanu 35</p>	Amatjhumi	Amayunidi	3	5
Amatjhumi	Amayunidi					
3	5					
		<table border="1"> <tr> <td>Amatjhumi</td> <td>Amayunidi</td> </tr> <tr> <td></td> <td></td> </tr> </table> <hr/>	Amatjhumi	Amayunidi		
Amatjhumi	Amayunidi					
		<table border="1"> <tr> <td>Amatjhumi</td> <td>Amayunidi</td> </tr> <tr> <td></td> <td></td> </tr> </table> <hr/>	Amatjhumi	Amayunidi		
Amatjhumi	Amayunidi					



Teacher:
Sign:
Date:

19

Ilanga:

Ithemu I



Funda

Ukubeka amatjhumi ndawonye lokha nasihlanganisa ukuya ema-qq

Nasi indlela yinye yokutjengisa ama-22.	Sinokodwa kokulitjhumi Sinamayunidi alitjhumi nambili	Kwanjesi sinenye indlela yokutjengisa ama-22.										
<table border="1"> <thead> <tr> <th>Amatjhumi</th> <th>Amayunidi</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>itjhumi li-1 amayunidi ali-12</p> <p>1 0 1 0 2</p>	Amatjhumi	Amayunidi			<p>Sizokubeka amayunidi amatjhumi ngequbi</p>			<table border="1"> <thead> <tr> <th>Amatjhumi</th> <th>Amayunidi</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>amatjhimi ama-2 amayunidi ma-2</p> <p>2 2</p>	Amatjhumi	Amayunidi		
Amatjhumi	Amayunidi											
		<table border="1"> <thead> <tr> <th>Amatjhumi</th> <th>Amayunidi</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>amatjhimi ama-2 amayunidi ma-2</p> <p>2 2</p>	Amatjhumi	Amayunidi								
Amatjhumi	Amayunidi											

Asihlanganise **27 + 4**. Sizokuthoma ngamabhlogo ahlaza. Amabhlogo apinki la ngiwo esizokungezelela ngawo.

Ama-27matjhumi ama-2 begodu nabowani abali-7. Bese sihlanganisa abowani aba-4 ngaphezulu.	Sinamatjhumi ama-2 begodu nabowani abali-11.	Kwanjesi sinamatjhumi ama-3 + nowani mu-1 = 31												
<table border="1"> <thead> <tr> <th>Amatjhumi</th> <th>Amayunidi</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>ama-2 ama-7 +ama-4</p> <p>2 0 7 4</p>	Amatjhumi	Amayunidi			<table border="1"> <thead> <tr> <th>Amatjhumi</th> <th>Amayunidi</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>Singatjengisa abowani abali-10 njenge tjumi linye.</p> <p>2 0 1 0 1</p>	Amatjhumi	Amayunidi			<table border="1"> <thead> <tr> <th>Amatjhumi</th> <th>Amayunidi</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>3 1</p> <p>_____ + _____ = _____</p>	Amatjhumi	Amayunidi		
Amatjhumi	Amayunidi													
Amatjhumi	Amayunidi													
Amatjhumi	Amayunidi													



Tlola iinomboro zomutjho ezitjengiswe sithombe

Amatjhumi	Amayunidi	Amatjhumi	Amayunidi	Amatjhumi	Amayunidi
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
$10 + 5 + 6$	$\underline{\quad} + \underline{\quad} + \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$			

Qedelela iinthombe. Tlola imitjho yeenomboro etjengiswe esithombeni.

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



Teacher: _____
Sign: _____
Date: _____

20a

Ilanga:

Ithemu |

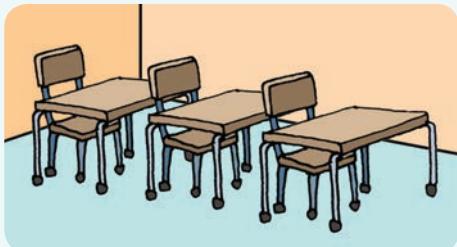
Hlanganisa kunambalayini

Hlala edeskeni lakho!

Esikolweni sethu umfundi ngamunye unedeske lakhe.

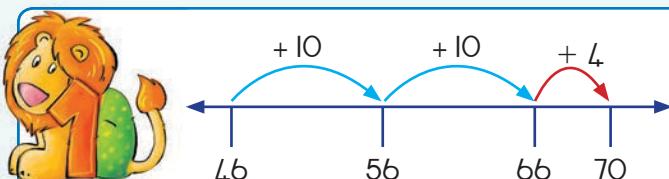
Kunabafundi abama-46 kuGreyidi 3A begodu bama-24
kuGreyidi 3B.

Ingabe sitlhoga amadeske amangaki ematlasini womibili?



Sebenza nomlingani

Qala kobana abafundi abathathu laba bayisebenzisa njani inambalayini ukusombulula umraro. Qedelela iimbalo usebenzile isibonelo.



Lokhu ngengikwenzako: Ngithoma ngokuhlanganisa i-10.

Lokhu kungiletha ema-56. Bese ngeqa i-10 elinye ngiye ema-66.

Begodu kwamaswaphela, ngeqa ku-4 ngaphezulu ukufika ema-70.

$$\begin{aligned}
 &= 46 + 10 + 10 + 4 \\
 &= 56 + 10 + 4 \\
 &= 66 + 4 \\
 &= 70
 \end{aligned}$$

Kufanele
njihlanganise ama-24
ukuya ema-46.



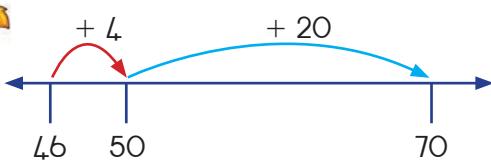
a. $32 + 25 =$

← →



b. $52 + 26 =$

c. $46 + 25 =$



Kufanele
ngihlanganise ama-24
ukuya ema-46.



Lokhu ngengikwenzako: Kokuthoma ngizokweqa ku-4. Lokho kuzangiletha ema-50. Ngingeqa ukudlula ama-20, okungiletha ema-70.

$$= 40 + 10 + 20$$

$$= 50 + 20$$

$$= 70$$

a. $36 + 41 =$



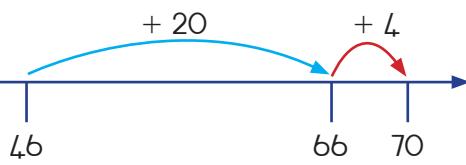
20b

Ilanga:

Ithemu |

Hlanganisa kunambalayini (kuragela phambili)

b. $57 + 19 =$



Kufanele
njihlanganise ama-24
ukuya ema-46.



Lokhu ngengikwenzako: ukusuka ema-46, ngingeqa ama-20. Lokho kungiletha ema-66. Kwanjesi kufanele ngeqe ku-4 ngaphezulu begodu bese njifika ema-70.

$$= 46 + 20 + 4$$

$$= 66 + 4$$

$$= 70$$

a. $63 + 24 =$



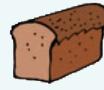
b. $65 + 29 =$





Ziinlofu ezingaki?

Umbhagi udiliva iinlofu ezima-54 ezibhraweni
ezima-68 begodu neenlofu
ezimhlophe.



- a. Ziinlofu ezingaki sezizoke?

- b. Fumana ithothali kunambalayini.

Tjengisa **iinomboro nesilinganiso** sokweqa.



Hlanganisa okulandelako, ngaphandle kokusebenzisa inambalayini.
Sebenzisa yakho indlela.

$38 + 24 =$

$58 + 17 =$

$75 + 16 =$

$83 + 29 =$



2|a

Ilanga:

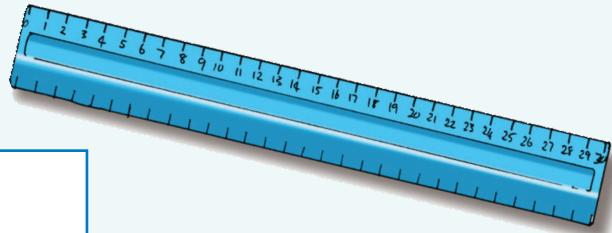
Ithemu |

Ukukhupha ngenambalayini

Umfundu munye! Irula yinye!

Itlasi litlhoga amarula ama-53. Kunama-35 kwaphela.

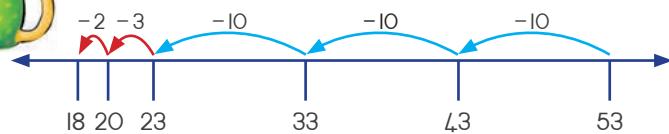
Sisatlhoga mangaki? $53 - 35 =$



Sebenza nomlingani

Funda kobana abafundi abanye abathathu abafanako bayisebenzisa njani inambalayini lapha.

Qedelea iimbalo usebenzise isibonelo.



Kufanele ngikhuphe
ama-35 kuma-53.
Ukukhupha kutjho ukususa.



Ngalokho ke, ngizakuthoma ema-53 begodu ngisuse. Ngizakususa i-10, 10, 10 – elingiletha ema-23. Kwanjesi ukususa kuhlanu, okokuthoma ngisusa ku-3, bese ngiza ema-20. Ngisusa ku-2 ngaphezulu begodu ngifumana i-18. Ngalokho ke sitlhoga iinrula ezili-18.

$$\begin{aligned} &= 53 - 10 - 10 - 10 - 3 - 2 \\ &= 43 - 10 - 10 - 3 - 2 \\ &= 33 - 10 - 3 - 2 \\ &= 23 - 3 - 2 \\ &= 20 - 2 \\ &= 18 \end{aligned}$$



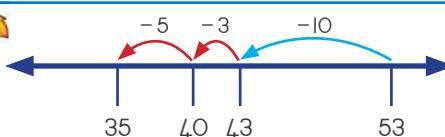
a. $68 - 24$



b. $74 - 38$



c. $92 - 87$



Ukukhupha kutjho
ukufumana umehluko hlangana
nama-53 nama-35.



Ngizakuthoma ema-53 bese ngibala ukuya emuva ema-35 ukufumana umehluko.

Nakhibe ngibala ngibuyele emva nge-10, ngiya ema-43. Ngingabala ngiye emva
ngaku-3 ngaphezulu ukuya ema-40. Bese ngibala ngiye phasi ngaku-5 ngaphezulu
ukuya ema-35. I-10 naku-3 nakuhanu kuli-18. Ngalokho-ke sitlhoga amarula
angaphezulu nge-18.



a. $38 - 14$

Teacher: _____
Sign: _____
Date: _____

2lb

Ilanga:

Ithemu |

Ukukhupha ngenambalayini (kuragela phambili)

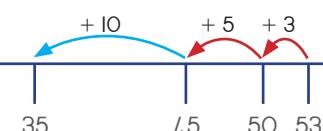
b. $65 - 43 =$

← →

c. $72 - 39 =$

← →

d. $85 - 48 =$



Ngingathoma ema-35 begodu
ngibone kobana kungithatha
imeqo emingaki **ukubala**
kufikela ema-53.



Ngingathoma ema-35 begodu ngibone kobana kuthatha imeqo
emingaki **ukubala kufikela** ema-53. Itjhumi lihangana nakuhlanu
kuhangane nakuthathu kuli-18. Sitlhoga amarula ali-18 ngaphezulu.

a. $84 - 32 =$

← →



b. $96 - 53 =$

← →

c. $78 - 19 =$

← →

d. $63 - 47 =$



Khamba ngeteksi

Ikhambo ngeteksi lokuya edrobheni lima-65 km.
Bekube nje iteksi sele ikhambe ama-38 km.

Kusafanele ikhambe kangangani ukuya phambili?

Sebenzisa inambalayini ukusombulula umraro lo.



← →

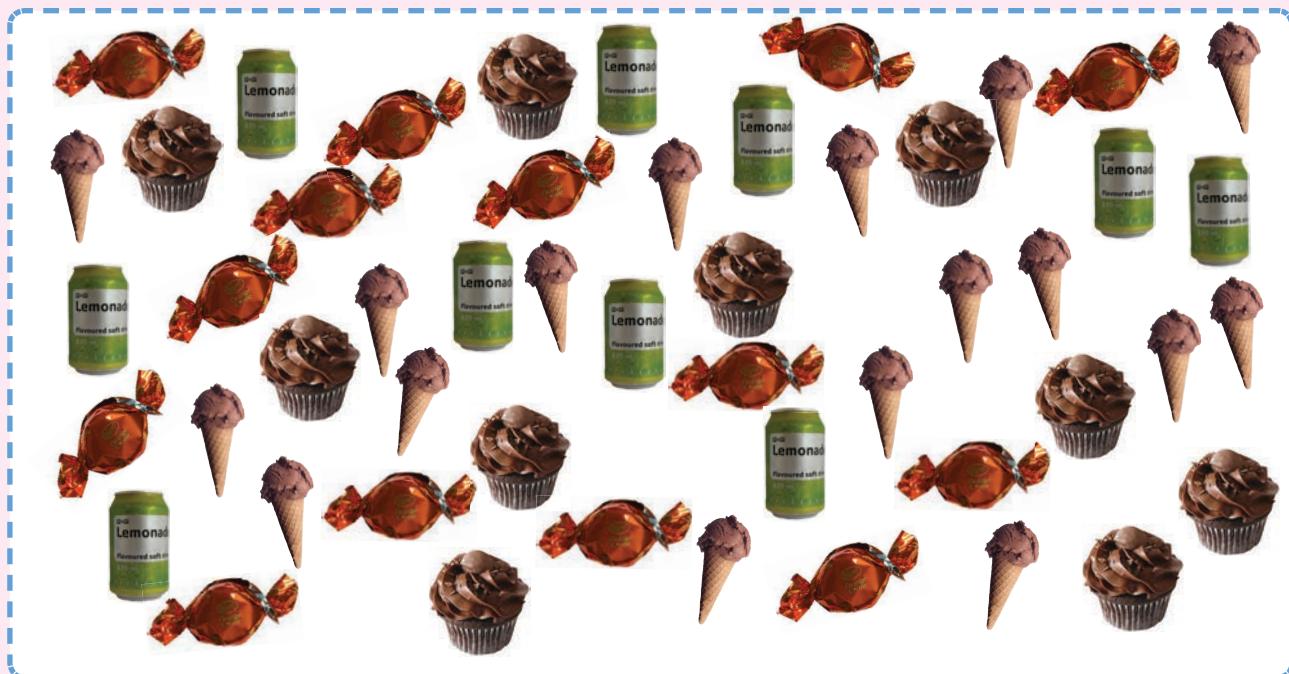
km





Iqhinga lokuthoma!

UBusi ubawe abangani bakhe kobana bamnikele isithombe sokudla kwephathi abakuthandako. Okulandelako kukudla akuthengako. Msiza kobana ahlele kuhle ukudla lokhu.



Bala, begodu tlola kobana bangaki abangani abakhetha umhlobo ngamunye wokudla.

Inomboro				



Qedelela igraf yesithombe. Sebenzisa itheyibula. Gwala ubuso banye komunye nomunye umntwana okhetha ukudla nanyana isisel.

😊			
😊			
😊			
😊			
😊			
😊			
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😊			
			



Tegeben:

Sign:

Data

|| 12 13 14 15 16 17 18 19 20

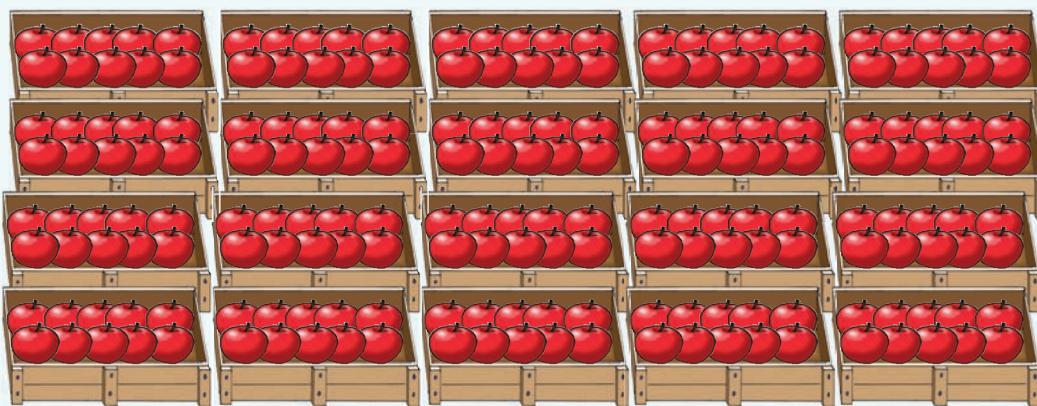
23

Ilanga:

Ithemu |



Ubona ama-apula amangaki?



Zaliselela ngeenomboro

Ibhoksi elilodwa lina ma-apula

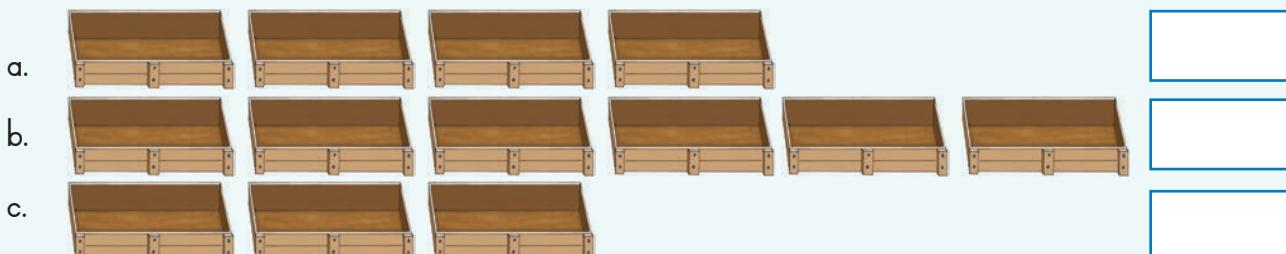
Ireyi elilodwa lina ma-apula

Ireyi elilodwa linamabhoksi

Amareyi amane anama-apula

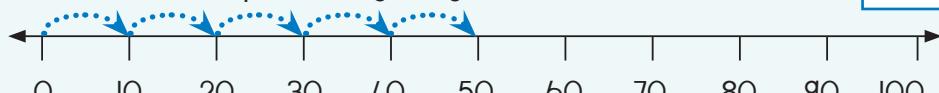


Singapaka ama-apula amangaki ngemabhoksini la?



Tjengisa lokhu ngenambalayini.

a. Kuzokuba nama-apula amangaki ngemabhoksini amahlanu?



b. Kuzokuba nama-apula amangaki ngemabhoksini alikhomba?





u-10 nakangezelwe
ngaku-3 kwenza –

3 0

$3 \times 10 =$ **3 0**

nanyana $10 \times 3 =$ **3 0**

u-10 nakangezelwe
ngaku-5 kwenza

_____ \times _____ = _____

nanyana

_____ \times _____ = _____

u-10 nakangezelwe
ngaku-2 kwenza

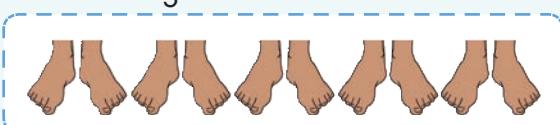
_____ \times _____ = _____

nanyana

_____ \times _____ = _____



Impara ezi-5 zeenyawo.
Kuneenzwani ezingaki sele zizoke?



$10 + 10 + 10 + 10 + 10 =$ **5 0**

$5 \times 10 =$ _____

nanyana $10 \times 5 =$ _____

Yenza lokhu ngendlela efanako.

Impara ezi-4 zeenyawo. Kuneenzwani ezingaki sele zizoke?

_____ = _____ \times _____ = _____ nanyana _____ \times _____ = _____

Impara ezi-9 zeenyawo. Kuneenzwani ezingaki sele zizoke?

_____ = _____ \times _____ = _____ nanyana _____ \times _____ = _____



Asibaleni nge-10.

10, 20, 30, 40, 50, _____, _____, _____, _____, _____, _____,
_____, _____, _____, _____, _____, _____, _____, _____, 200



11 **12** **13** **14** **15** **16** **17** **18** **19** **20**

24

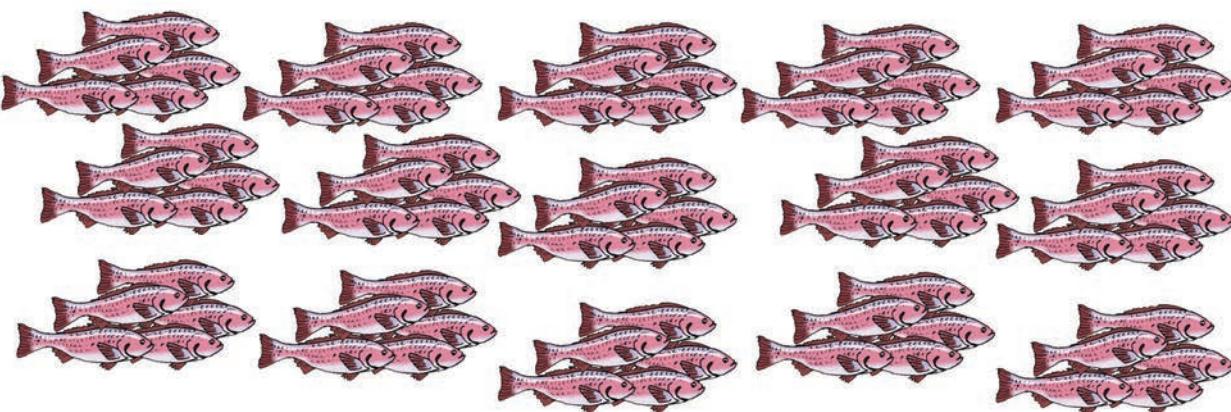
Ilanga:

Ithemu |

Zijayeze ngaku-5



Ingabe iinhlambi zingaki? Linganisa ukuthi kungaki.



Kwanjesi bala iinhlambi.

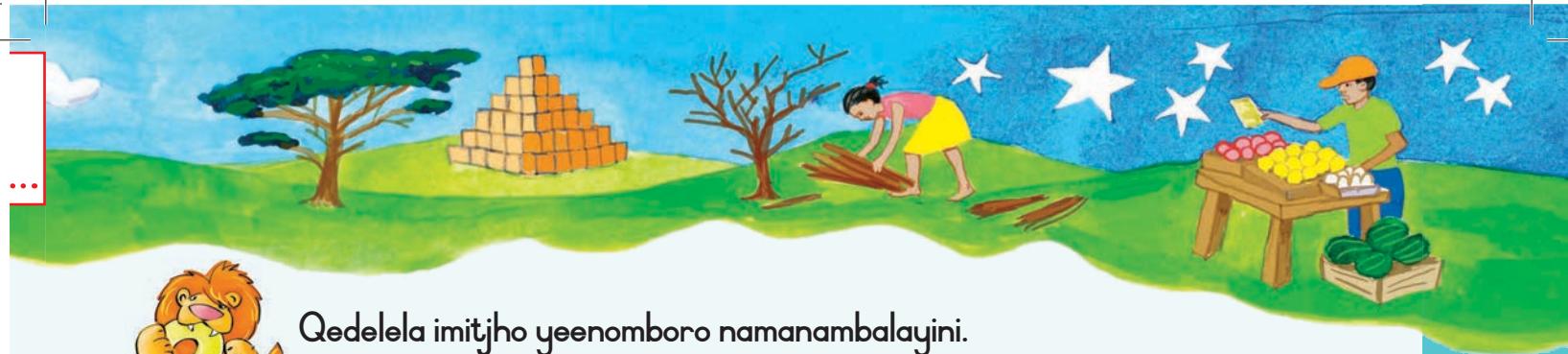
Fumana ithothali.

Bala ngaku-5



Fumana ithothali yamaqanda weenhlambi. Tlola umutjho weenomboro usebenzise u + kanye no X. **Sesikwenzele isibonelo.**

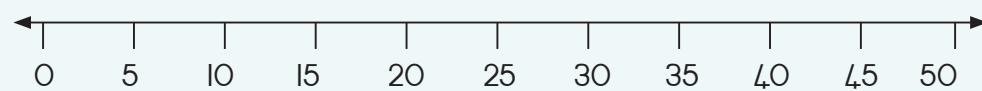
Ihlambi namaqanda	Ingabe mangaki amaqanda?	
Iinhlambi ezi-5, zibekela amaqanda ama-2	$2 + 2 + 2 + 2 + 2 = 10$	$5 \times 2 = 10$
Iinhlambi ezi-5, zibekela amaqanda ali-10		
Iinhlambi ezi-5, zibekela amaqanda ama-4		
Iinhlambi ezi-5, zibekela amaqanda ama-3		
Iinhlambi ezi-5, zibekela amaqanda asi-6		
Iinhlambi ezi-5, zibekela amaqanda abu-8		
Iinhlambi ezi-5, zibekela amaqanda ama-5		



Qedelela imitjho yeenomboro namanambalayini.

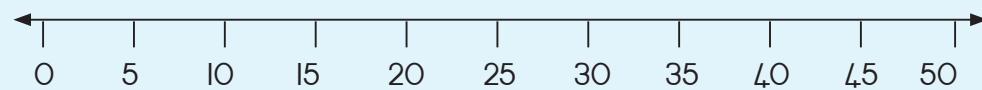


$$5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{35} \text{ nanyana } \boxed{7} \times \boxed{5} = \boxed{35}$$



$$5 + 5 + 5 + 5 = \boxed{\quad} \text{ nanyana } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

b.



$$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{\quad} \text{ nanyana } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$

c.



$$\underline{\quad} + \underline{\quad} = \boxed{\quad} \text{ nanyana } 10 \times 5 = 50$$



Bamba ihlambi

USipho ubamba iinhlambi ezihlangana kwama-40 nama-50. Uyazibala ngaku-2 begodu usele nayi-l.

Uzibala ngaku-5 begodu usele nazi-2. Ingabe uSipho ubambe iinhlambi ezingaki?



Teacher: _____
Sign: _____
Date: _____

25a

Ilanga:

Ithemu |



Bala amakowusu

Bala ngaku-2



- Mangaki amakowusu alapho? _____
- Ziimpara ezingaki zamakowusu? _____
- Kusele amakowusu amangaki? _____



Ukubala iimpara zamakowusu

Tlola kobana ziimpara ezingaki zamakowusu ezilapho begodu utjho nakhibe kukhona aseleko.

Amakowusu	Isibalo seempara	Inani lamakowusu	Amswenya aseleko
			
			
			
			
			



25b



Ilanga:

Ithemu |



Bala ngaku-2 (kuragela phambili)

Ukwakha iimpara.

Tlola phasi iinomboro ezilinganako nenomboro ezingalinganiko kusukela e-l – 60.

- a. Tlola iinomboro ezilinganako kusukela kwe- l – 60.

2, 4, 6,

- b. Tlola iinomboro ezingalinganiko kusukela kwe- l – 60.

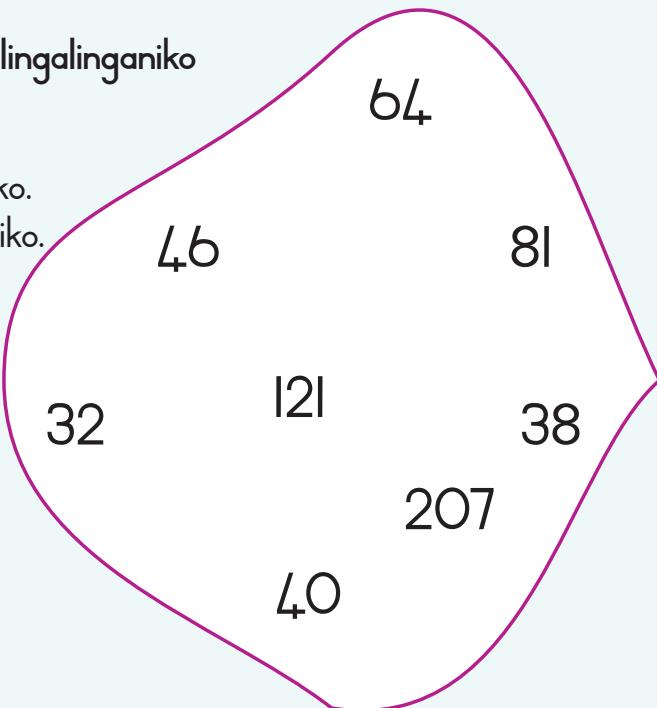
3, 5, 7,



Okulingalinganako nokungalingalinganiko

Dweba indulunga eenomborweni ezilinganako.

Dweba iskwere eenomborweni ezingalinganiko.





Kusukela emakowuswini ukuya eempareni zamakowusu



Isibonelo:

ipara yi-1 = amakowusu ma-2

$$2 \times 1 = 2$$

impara ezili-10 = amakowusu ama-20

$$2 \times 10 = 20$$

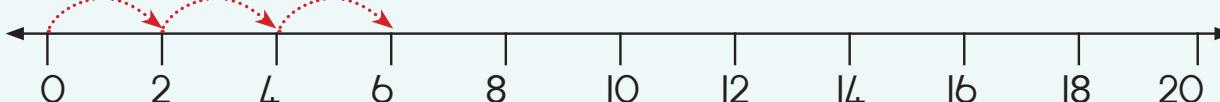
a. Tlola kobana mangaki amakowusu.

Cabanga ngaku-2	Umutjho weenomboro
Ipala eyo-1 amakowusu = ama-2	<input type="text"/> 2 \times <input type="text"/> 1 = <input type="text"/> 2
Impala ezi-2 amakowusu = ama-__	<input type="text"/> 2 \times <input type="text"/> 2 = <input type="text"/>
Impala ezi-4 amakowusu = abu-__	
Impala ezibu-8 amakowusu = ali-__	
Impala ezili-9 amakowusu = ali-__	

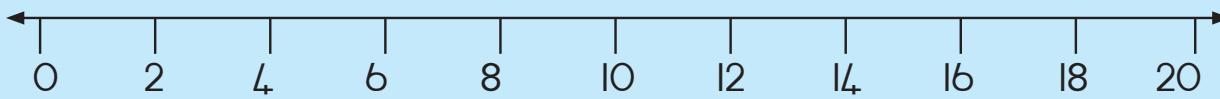
b. Tjengisa inani phezu kwenambalayini bese uyaqedeleta.

Isibonelo:

$$2 + 2 + 2 = 6 \text{ nanyana } 3 \times 2 = 6$$



$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \boxed{\quad} \text{ nanyana } \boxed{\quad} \times \boxed{\quad} = \boxed{\quad}$$



26

Ilanga:

Ithemu |

Imali kade nanje



Indatjana yemali yethu

ESewula Afrika sisebenzisa amaranda namasende njengemali yethu.

Sathoma ukusebenzisa amaranda neensende ngomnyaka we-1961.

Ngalawo malanga isende yi-1 yesimbi gade kungijo encani khulu, kulandele amasende.
ama-2 bese kulandela amasente ama-5.





Bala amasende

Bala usende o-l.

Kunamasende amangaki?

Mangaki afunekako ukwenza i-R1,00?

Agwale ngaphakathi kwebhlogo.



Masende amangaki?

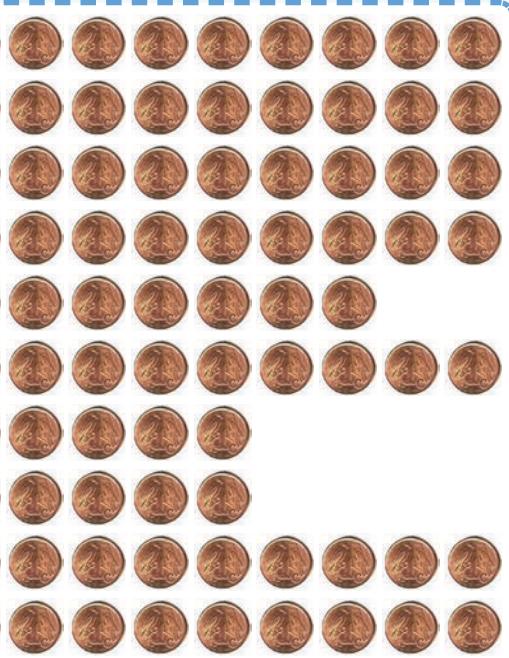
R1,00 = <input type="text"/> c	R2,00 = <input type="text"/> c
R3,00 = <input type="text"/> c	R1,50 = <input type="text"/> c



"Ngingathenga iinthelo ezingaki?"

2 sibiza-R4,00.

Ufumana amabhana amangaki nge-R20,00?



2 sibiza-R2,00.

Ufumana ama-apula amangaki nge-R9,00?



27



Ilanga:

Bala ngaku thathu



Amavili ngama-3



Ibhayisigili-emavili-ntathu yi-l inamavili ama ____.



Imbhasigili ezi-5 zinamavili ama ____.

$$3 + 3 + 3 + 3 + 3 = 5 \times 3 = ____$$

Imbhasigili ezi-2 zinamavili ama ____.

$$3 + 3 = 2 \times 3 = ____$$

Imbhasigili ezi-4 zinamavili ama ____.

Imbhasigili ezi-6 zinamavili ama ____.

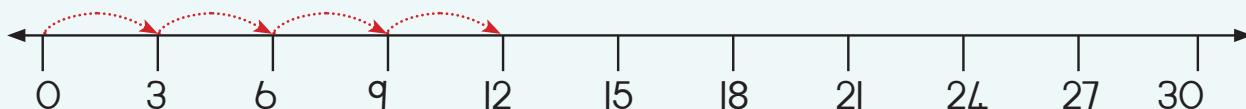
Imbhasigili ezi-9 zinamavili ama ____.

Imbhasigili ezi-8 zinamavili ama ____.



Amanambalayini

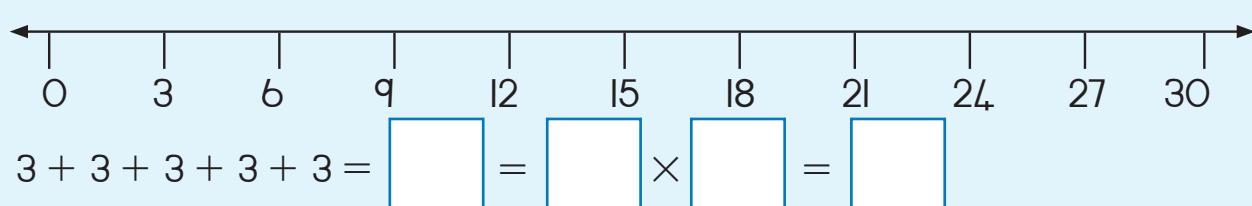
Landela isibonelo.



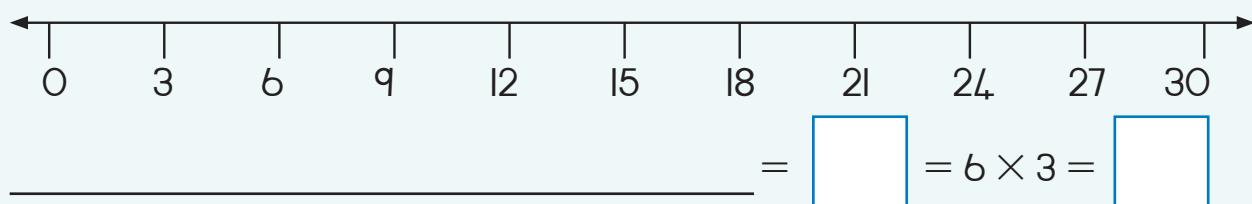
a. $3 + 3 + 3 + 3 = \boxed{\quad} = 4 \times 3 = \boxed{\quad}$



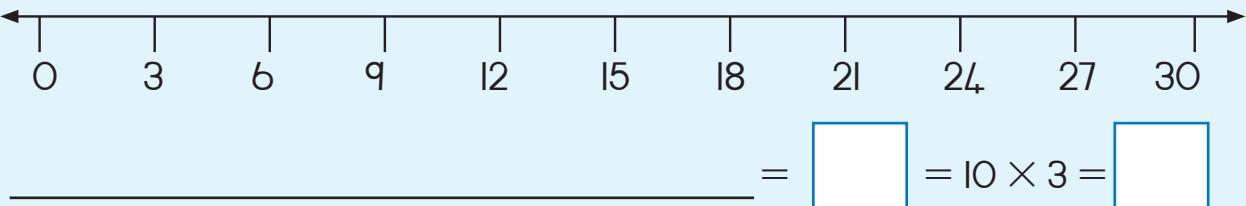
b.



c.



d.



Ibhayisigili enamavili ama-2 neembhayisigili-ezimavilintathu ama-3



Esitolo seembhayisigili uBusi ubala amavili weembhayisigili neweembhayisigili-ezimavili-ntathu.

Kunamavili ali-14 sele awoke.

Kuneembhayisigili ezingaki lapho? _____

Kuneembhayisigili-ezimavili-ntathu ezingaki lapho? _____



28

Ilanga:

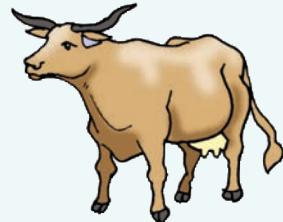
Ithemu |

Ngikuphi okuza ngaku-4?



Imilenze emine

Amaphuzu amanye
weenomboro ezi-4 ...
 $4 + 4 = 8; 2 \times 4 = 8$



"Iiinkomo", ziinenyawo ezine.

Khuyini godu okukhamba ngakune? _____



Bala imilenze

Yaba iimpendulo.
Hlathulula kobana wenzeni.

Sebenzisa amaphuzu owaziko mayelana naku-4 ukuphendula imibuzo le:

Ikomo e-1	4	imilenze	Tinkomo ezi-2	8	imilenze
Tinkomo ezi-3		<input type="text"/>	Tinkomo ezi-4		<input type="text"/> imilenze
Tinkomo ezi-5		<input type="text"/>	Tinkomo ezi-6		<input type="text"/> imilenze
Tinkomo ezi-7		<input type="text"/>	Tinkomo ezi-8		<input type="text"/> imilenze
Tinkomo ezi-9		<input type="text"/>	Tinkomo ezi-10		<input type="text"/> imilenze



Qedelela itheyibula elandelako. Sebenzisa isibonelo ukubanelemuko.

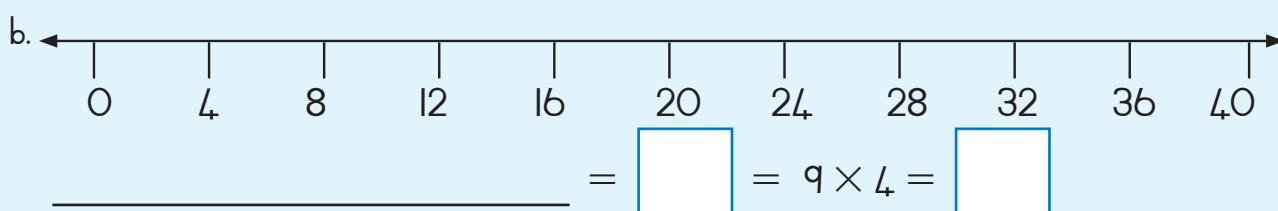
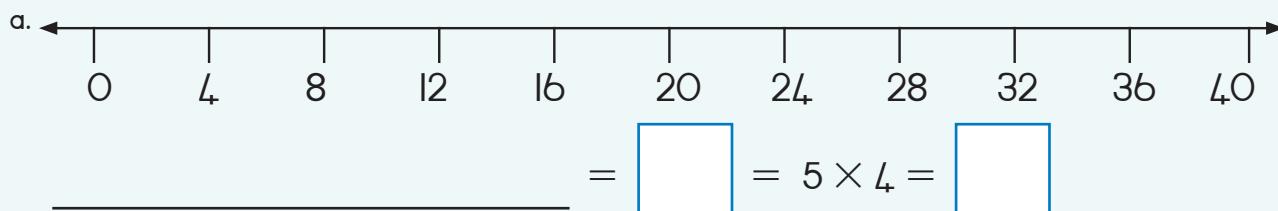


Iinkomo ezi-3 zinemilenze eli- _____	$4 + 4 + 4 = 4 \times 3 =$ <u>12</u>
Iinkomo ezi-5 zinemilenze eli- _____	
Iinkomo ezi-4 zinemilenze eli- _____	
Iinkomo ezi-7 zinemilenze eli- _____	
Iinkomo ezi-8 zinemilenze eli- _____	



Amanambalayini

Yenza isibalo sokubuyabuyeleta phezulu kwenambalayini bese uyaqedelela usebenzise ukweqa.



11 12 13 14 15 16 17 18 19 20

29



Ilanga:

Amaphetheni ngeenomboro



Amaphetheni wegridi

Ngiyiphi iphetheni yeenomboro eyenza iindulungu ekutjengiseni igridi ngayinye ye-100? Dweba iindulungu ezingaphezulu ukuqedelela iphetheni ngayinye. Tlola ibizo lephetheni.

a. Iphetheni:

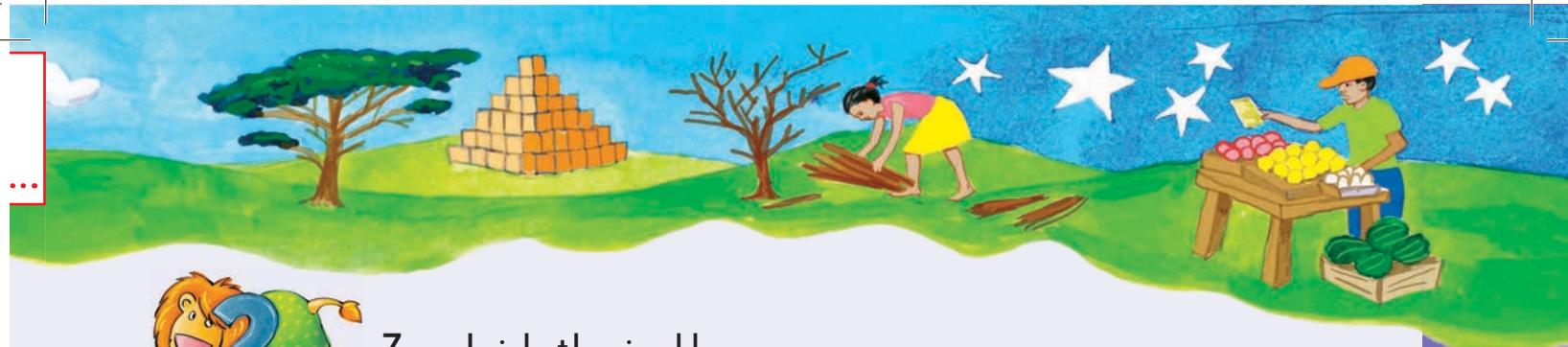
A Go board diagram consisting of a 19x19 grid of light blue lines. On the far left, there is a vertical column of black circular stones, one in each row from the 10th to the 19th. The rest of the board is empty.

b. Iphetheni:

c. Iphetheni: _____

d. Iphetheni: _____

A Go board diagram consisting of a 13x13 grid of lines forming 19x19 intersections. There are 12 black circular stones placed on the board at the following coordinates: (3, 3), (3, 7), (3, 11), (7, 3), (7, 7), (7, 11), (11, 3), (11, 7), (11, 11). The grid lines are thin and light gray.



Zenzele iphetheni yakho

a. Kilephetheni yeenomboro, iinomboro zoke ziyingana.

Inomboro enye ingaba yini? Zitlole ngaphakathi.



b. Kilephetheni yeenomboro, iinomboro zoke azilingani.

Ezinye iinomboro zingaba yini? Zitlole ngaphakathi.



Ingabe zifanele zibe kuphi?



Iphetheni yangaku-3
neyangaku-4

Iphethe yangaku-3
neyangaku-5

Iphetheni yangaku-4
neyangaku-5

Isibonelo: 48



Elwandle

UThembu udobha amacephe welwandle ahlangana kwama-60 nama-70

Uwabala ngaku-3, usele nali-1.

Iinomboro ekungabangizo ngilezi: 61, _____, _____, 70,

Nakabala nga-5, usalelwa ku-4.

Iinomboro ekungizo ngilezi: _____, _____.

UThembu unamacephe amangaki? _____



Teacher: _____
Sign: _____
Date: _____

11 12 13 14 15 16 17 18 19 20

30a

Ilanga:

Ithemu |



Yabelana ngamaswidi.

Ukwehlukanisa



- a. Yabela abentwana ababili ngokulingana amaswidi ama-30.



Singatlolola ngendlela elandelako:

$$30 \div 2 = 15$$

- b. Yabela ngokulingana amaswidi hlangana nabentwana abathathu.



$$\div =$$

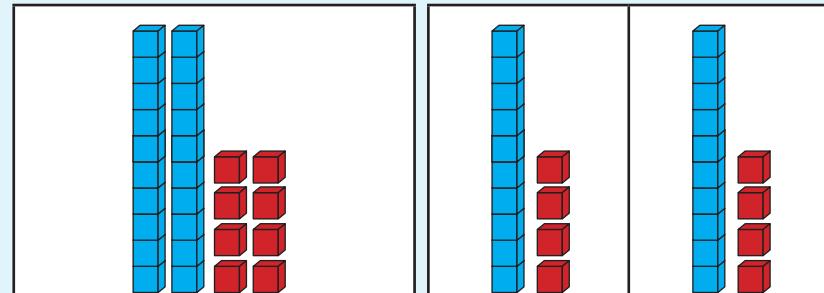
- c. Amaswidi ahlukaniselwe abentwana aba-5



$$\div =$$



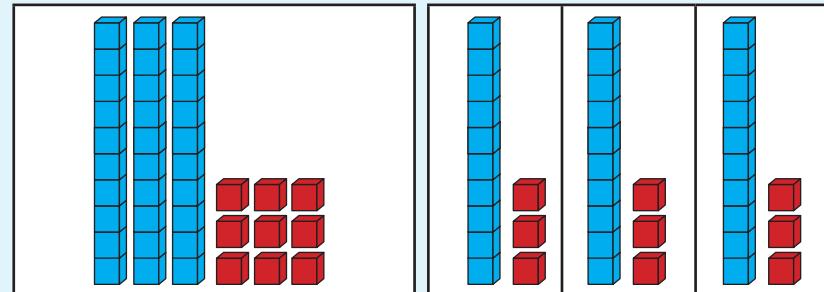
Singasebenzisa iinomboro zamabhlogo ukwabelana.



$$\begin{array}{r} 2 \ 8 \\ \div \ 2 \\ = \ 1 \ 4 \end{array}$$

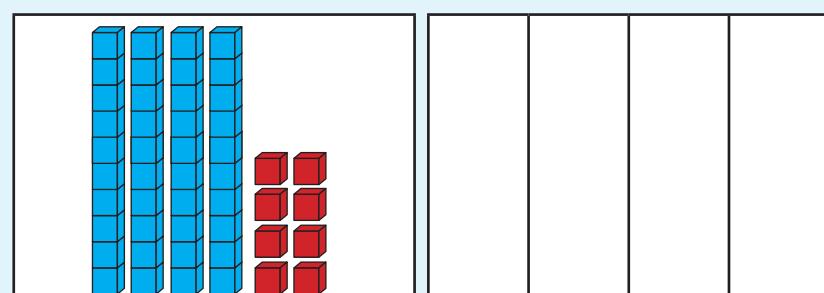
Kwanje yenza lokhu.

a.



$$\begin{array}{r} \square \ \square \\ \div \ 3 \\ = \ \square \ \square \end{array}$$

b.



$$\begin{array}{r} \square \ \square \\ \div \ 4 \\ = \ \square \ \square \end{array}$$



Teacher:
Sign:
Date:

30b

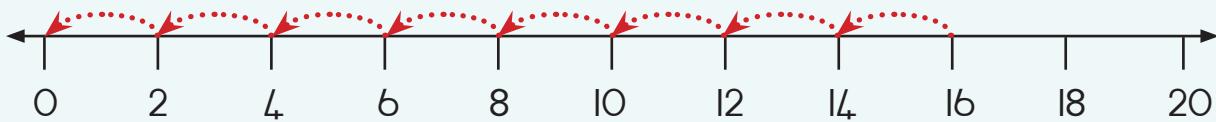
Ilanga:

Ithemu |

Ukwehlukanisa (kuragela phambili)



Sebenzisa amanambalayini ukutlola umutjho weenomboro okhuphako nanyana ohlukanisako. Isibonelo:

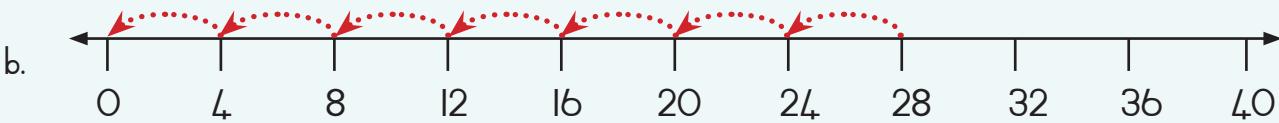


$$16 - 2 - 2 - 2 - 2 - 2 - 2 - 2 = 0$$

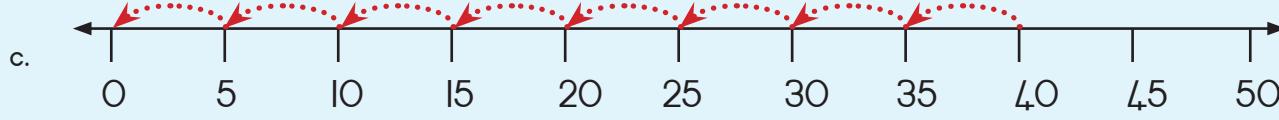
$$16 \div 2 = 8$$



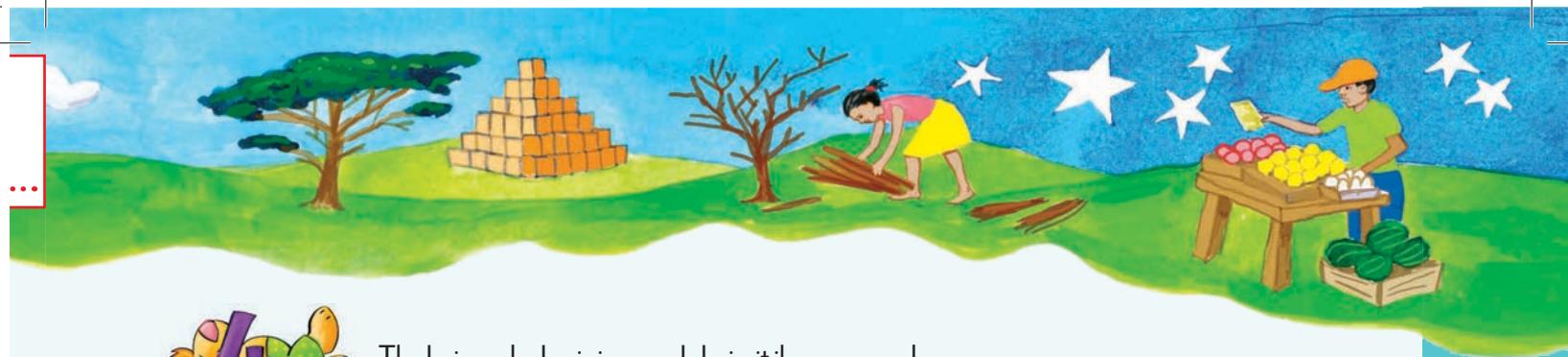
$21 -$	$=$
$\boxed{\quad} \div \boxed{\quad}$	$=$



$28 -$	$=$
$\boxed{\quad} \div \boxed{\quad}$	$=$



$\underline{\quad} -$	$=$
$\boxed{\quad} \div \boxed{\quad}$	$=$



Thala inambalayini urarulule imitjho yeenomboro.

a. $30 \div 5 =$



b. $22 \div 2 =$



c. $27 \div 3 =$



d. $32 \div 4 =$



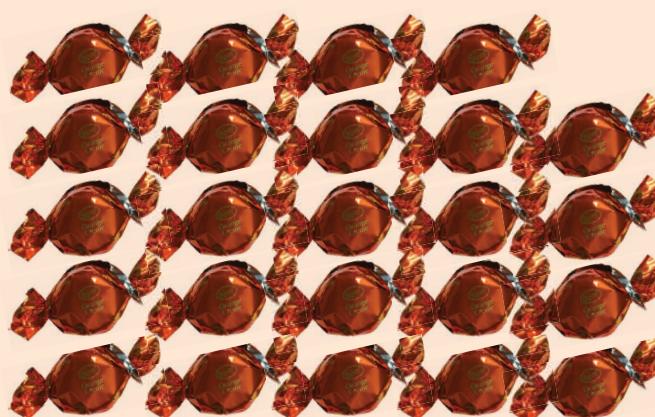
e. $25 \div 5 =$



Iselele

Tjengisa iindlela ongazilandela
ukwabela iinqhema
zabentwana amaswidi
ama-24 ngokulingana.

Tlola umutjho weenomboro
ukutjengisa
ipendulo yakho.



Teacher:

Sign:

Date:

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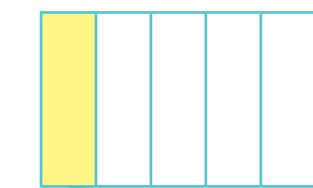
Ilanga:

Ithemu |



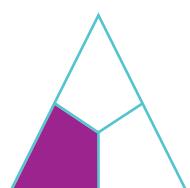
Amacezu

Thala umuda umadanise ibumbeko necezu elifaneleko.



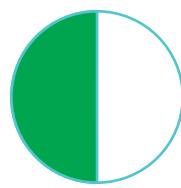
$$\frac{1}{3}$$

ingcenyé yakuthathu



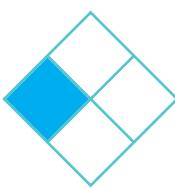
$$\frac{1}{5}$$

ingcenyé yakuhanu



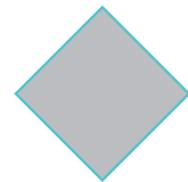
$$\frac{1}{4}$$

ingcenyé yekotara



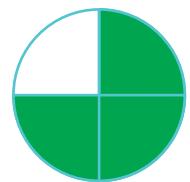
$$\frac{1}{2}$$

ingcenyé yehafu



iingcenyé
ezintathu
zamakotara

$$\frac{3}{4}$$



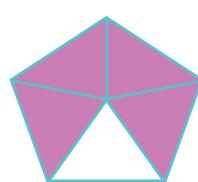
iingcenyé
ezine
zakuhanu

$$\frac{4}{5}$$



Okukodwa
okuzeleko

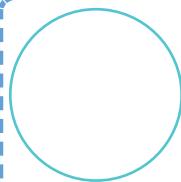
$$1$$



iingcenyé
eziimbili
zakuthathu

$$\frac{2}{3}$$

Hlukanisa bese uyakhalara:



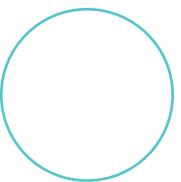
$$\frac{1}{2}$$

ingcenyé yehafu



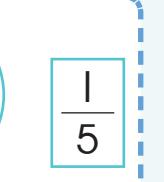
$$\frac{1}{3}$$

ingcenyé yakuthathu



$$\frac{1}{4}$$

ingcenyé yekotara



$$\frac{1}{5}$$

ingcenyé yakuhanu

Tjengisa icezu ngokuthala umuda osuka enomborwени enembako yamasbidi.



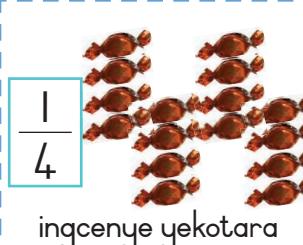
$$\frac{1}{2}$$

ingcenyé yehafu



$$\frac{1}{3}$$

ingcenyé yakuthathu



$$\frac{1}{4}$$

ingcenyé yekotara



$$\frac{1}{5}$$

ingcenyé yakuhanu



Yabela abentwana ababili iimbalisi.



<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>					<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>					<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>					<table border="1"> <tr> <td></td><td></td></tr> <tr> <td></td><td></td></tr> </table>				
<ul style="list-style-type: none"> Omunye nomunye ufunyene iimbalisi ezi- <u>2</u> Ihafu yeembalisi ezi- <u>4</u>ngu <u>2</u>. 	<ul style="list-style-type: none"> Omunye nomunye ufunyene iimbalisi ezi- <u> </u> <u> </u> yaka <u> </u>ngu <u> </u>. 	<ul style="list-style-type: none"> Omunye nomunye ufunyene iimbalisi ezi- <u> </u> <u> </u> yaka <u> </u>ngu <u> </u>. 	<ul style="list-style-type: none"> Omunye nomunye ufunyene iimbalisi ezi- <u> </u> <u> </u> yaka <u> </u>ngu <u> </u>. 																
$4 \div 2 = 2$	<u> </u> \div <u> </u> = <u> </u>	<u> </u> \div <u> </u> = <u> </u>	<u> </u> \div <u> </u> = <u> </u>																



Yabela abentwana amaswidi ngokulingana.

<table border="1"> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td><u> </u></td><td><u> </u></td><td><u> </u></td><td><u> </u></td></tr> </table>					<u> </u>	<u> </u>	<u> </u>	<u> </u>	<table border="1"> <tr> <td></td><td></td><td></td></tr> <tr> <td><u> </u></td><td><u> </u></td><td><u> </u></td></tr> </table>				<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>												
<u> </u>	<u> </u>	<u> </u>													
<ul style="list-style-type: none"> ikotara amaswidi = 3 amakotara amabili amaswidi = <u> </u> amakotara amathathu amaswidi = <u> </u> amakotara amane amaswidi = <u> </u> 	<ul style="list-style-type: none"> isiquantu esisodwa sesithathu amaswidi = <u> </u> iinquntu ezimbili zesithathu amaswidi = <u> </u> iinquntu ezintathu zesithathu amaswidi = <u> </u> 														



32

Ilanga:

Ithemu |



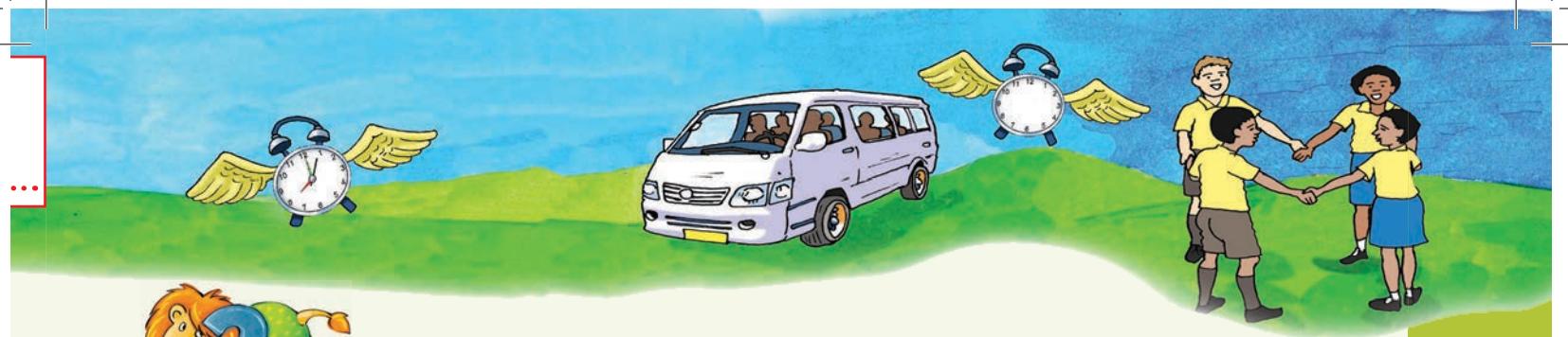
Ukuya ngesidləni

Singatlolə isikhathi esifanako ngeendlela ezihlukileko.

2:15 likotara ngemva kwelesibili	5:30 siquntu ngemva kwelesihlanu	9:45 likotara ngaphambi kweletjhumi

Tlola lokhu ngeendlela ezimbili ezihlukileko.

_____	_____	_____



Ukuya ekhaya

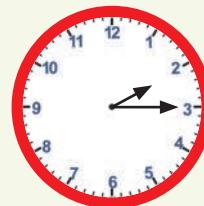
UBen uthatha isikhathi esingangani ukufika ekhaya?

imizuzu

ama-iri



UBen usuka
esikolweni.



UBen ufika
ekhaya.



Isikhathi siyaqijima

Isikhathi ngaku-2 ...



Mingaki ...

imizuzu ema-irini ama-2? _____

ama-iri ngamalanga ama-2? _____

amalanga ngeemveke ezi-2? _____

iinyanga ngeminyaka emi-2? _____



Malanga amangaki?

UMrhayili 27 liLanga leKululeko.

UMgwengweni 16 liLanga leLutjha.

- Ukusukela ngelanga lekuleleko ukufika ngelanga labatjha kuna _____ weenyanga zoke, _____ wamaveke woke na. _____ wamalanga.
- Zingaki iimveke zoke kikho koke? _____ Mangaki amalanga aseleko? _____. Mangaki amalanga kikho koke? _____.
- Ilanga lamabeletho wakaLebo limalanga ali-7 ngaphambi kweLanga leKululeko. Ilanga lamabeletho wakaMusa limalanga amabili ngemva kwelanga leLutjha.

Ngubani omdala? _____ Ngamalanga amangaki? _____

USihlabantangana						
Mvl	Lsb	Lst	Lsn	Lsh	Mgq	Snd
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					

UmMrhayili						
Mvl	Lsb	Lst	Lsn	Lsh	Mgq	Snd
		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		

UMgwengweni						
Mvl	Lsb	Lst	Lsn	Lsh	Mgq	Snd
					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



Teacher:

Sign:

Date:

11 12 13 14 15 16 17 18 19 20

33



Ilanga:

Kunqotjhiwe kuma-200



Balani iinomboro



Balani benitjho zoke iinomboro kusukela e-101 ukuya ema-200.

Khombagni ngnilokhu nibala.



Tlolani iinomboro

- a. Tlolani inomboro etlhayelako esikwereni ngasinye esihlaza kwesibhakabhaka.
 - b. Tlolani zoke ezinye iinomboro.
 - c. Tlolani iinomboro ezili-10 ezilandelako nqemva kwama-200.

200; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ;



Ingangani imeqo?

a. 200

180

200		180					
50							110
							0

b. 87

107

167		
		207
		237



Qedelela

200	+	30	+	5	=	235
200	+	40	+	7	=	
200	+	60	+	8	=	
	+		+		=	293
	+		+		=	256

Hlela iinomboro zilandelane
kusuka kencani kuye kekulu.



Balganı kusukkelq e-100

Zalisa amabhoksi anganalitho ngokubala kobana ngikuphi okutlhogako ukufika enomborweni elandelako.

Thomann

```
graph LR; A[100] -- "+25" --> B[125]; B -- "" --> C[129]; C -- "" --> D[138]
```

Qedam

The diagram consists of four blue rectangular boxes arranged horizontally from left to right. The first box contains the number '168', the second '157', the third '151', and the fourth '145'. Each box is connected to the one on its left by a horizontal arrow pointing to the left, indicating a descending sequence or flow.



34

Ilanga:

Ithemu 2



Ukusebenza ngamabuthelelo weenomboro

Ukupaka amakerese

UNaNkosi usebenza efemini yamakerese.
Lokha amakerese nasele alungile, uwapaka ngendlela le elandelako ngamathreyi eenrageni.



Kunamakerese amangaki ethreyini ngayinye? _____

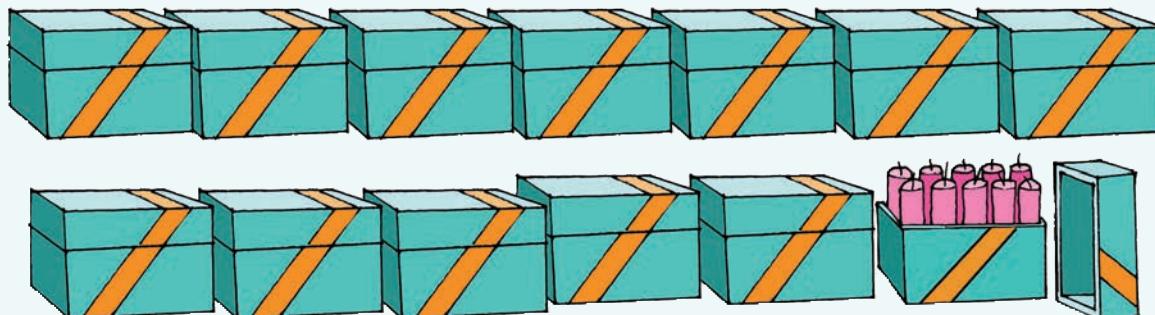
Kunamathreyi amangaki erageni ngayinye? _____

Kunama-keresi amangaki erageni ngayinye? _____



Amabhoksi wamakerese

Okulandelako uNaNkosi uvala amabhoksi.



- a. Bala amabhoksi.

Mangaki? _____

Amakerese mangaki selawoke? _____

Kufanele kwensiwe mangaki amanye amabhoksi ukwenza ama - 200
wamakerese? _____

- b. Mangaki amabhoksi we:-

amabhoksi ama - 2, _____	amabhoksi ama - 4, _____
amabhoksi ama - 5, _____	amabhoksi ama - 3, _____
amabhoksi ama - 6, _____	amabhoksi ama - 7, _____

- c. Mangaki amabhoksi awadingako we:

40 _____ amabhoksi	70 _____ amabhoksi
50 _____ amabhoksi	30 _____ amabhoksi



35a

Ilanga:

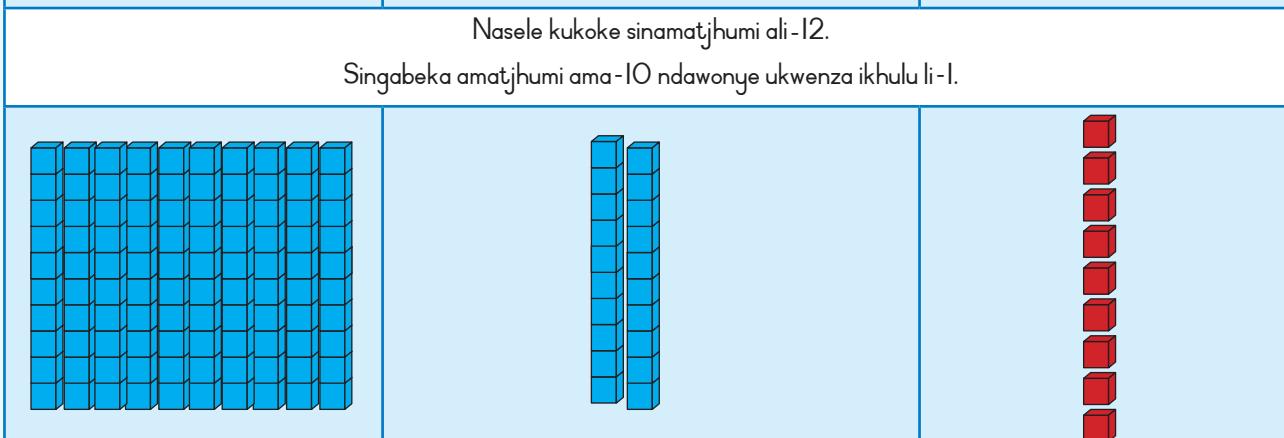
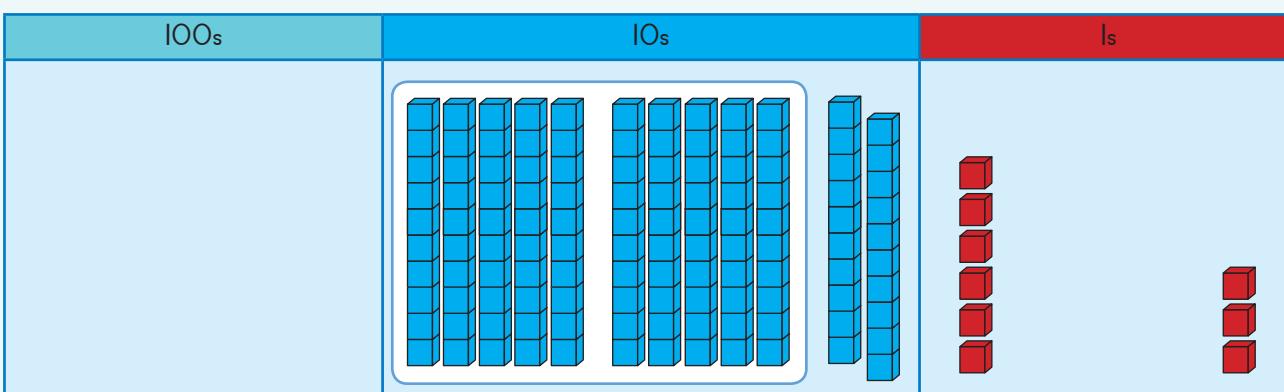
Ithemu 2



Ukubeka amatjhumi ndawonye nokuwahlukanisa

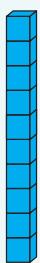
Ukubeka amatjhumi ndawonye lokha nasihlanganisako.

Asihlanganiseni $56 + 73 =$	
amatjhumi ama-5 namayunidi ama-6	amatjhumi ali-7 namayunidi ama-3





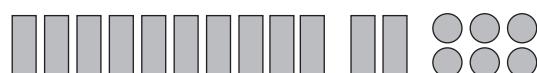
Asilingeni lokhu.



= ne

=

Isibonelo: $82 + 34$



$100 + 20 + 6 = 126$

b. $65 + 52$

c. $76 + 63$

d. $86 + 65$



35b

Ilanga:

Ithemu 2



Ukubeka amatjuhumi ndawonye nokuwahlukanisa (kuragela phambili)

Sebenzisa amabhlogo wobukhulu beenomboro.

Sebenzisa amabhlogo wobukhulu beenomboro ukwenza iinomboro ezimbilezi.	Koke ndawonye mangaki amatjhumi? bangaki abowani?	Ingabe uhlele amatjhumi namkha abowani? Tjhega ubukhulu beenomboro lapho uhlela kabutjha.	Tlola inomboro.
$23 + 99 =$	_____amatjhumi _____abowani	abawani aba-II + amayunidi ali-12 = 110 + 12	122
$38 + 25 =$	_____amatjhumi _____abowani		
$77 + 31 =$	_____amatjhumi _____abowani		
$68 + 45 =$	_____amatjhumi _____abowani		
$83 + 47 =$	_____amatjhumi _____abowani		



Asibekele amatjhumi ngeqadi lokha nasikhuphako

Lokha nasikhuphako, kesinye isikhathi sitlhoga kobana sitjengise itjhumi linye njengabowani abalitjhumi, namkha ikhulu njenge-10 elimatjhumi.

Asikhuphe kuma: $60 - 55 =$

Sithoma ematjhumi amathandathu begodu hayi abowani. Sifuna ukukhupha amatjhumi amahlalu nabowani abahlalu

(abowani esibususako sibafake umbala omlotha.)

Singatjengisa amatjhumi amathandathu nje.	Namkha njengamatjhumi amahlalu nabowani abalitjhumi.	Susa amatjhumi amahlalu nabowani abahlalu. Abowani abahlalu basele.	
		$60 - 55 = 5$	



Asilingeni lokhu.

a. $70 - 28$

7 amatjhumu	6amatjhumu ne-10 labowani	$70 - 28 =$	

b. $90 - 46$

c. $80 - 53$



Fumana ipara yeenomboro

a.

200	
30	

b.

200	
70	

c.

200	
	105

d.

200	
85	

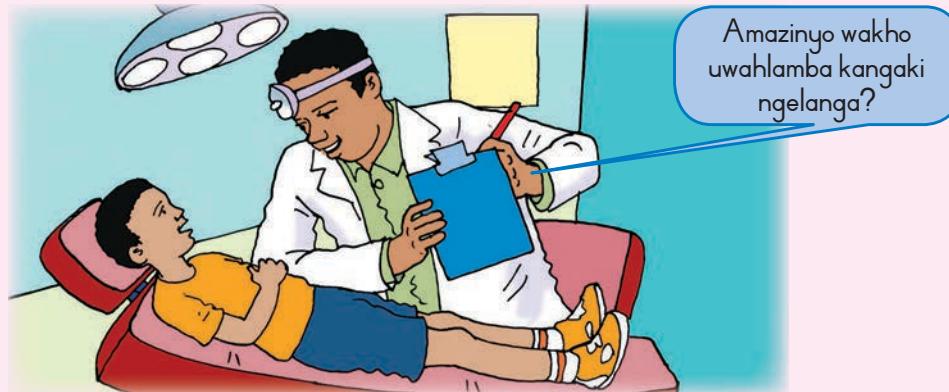


36



Ukuvakatjhela udonhodere wamazinyo

Isiqhema sabentwana sivakatjihela udorhodere wamazinyo.



Lokhu ngilokho abentwana abamtjela khona = ka-l

- a. Bala amathiki atjengisa kobana abentwana bahlamba amazinyo wabo kangaki. Tlola iinomboro (✓).

The image consists of three horizontal rows, each containing two blue toothbrushes with white bristles and pink trim. The first row is labeled 'Kanye ngelanga', the second 'Kabili ngelanga', and the third 'Kathathu ngelanga'. The labels are written in a stylized font below their respective rows.

- b. Ubona ini phezulu kwetafula?

Inengi labentwana lihlamba amazinyo wabo _____ ngelanga.

Kunabentwana aba _____ esiqhemeni.



Gwala/Dweba igrafu yeenthombe ezitjengisa kobana abentwana bawahlamba kangaki amazinyo wabo ngelanga.

 I = kanye



Yenza iphenyo ngetlasini lakho. Buza abentwana abahlangana ne-15 – 20.

a. Bawahlamba kangaki amazinyo ngelanga? _____

b. Gwala igrafu yeenthombe efana nale engehla ukuze utjengise okufunyeneko.



11 12 13 14 15 16 17 18 19 20

37a

Ilanga:

Ithemu 2

Hlanganisa



Tlola inani lakkho

UBusi angahlanganisa **ngamayunidi**-I begodu **nangamatjhumi** begodu ahlele kabutjha. Angahlanganisa begodu akhuphe ephepheni, elinganabhlogo. Kesinye isikhathi uthanda ukuthoma ngamakarada weenomboro zakhe ukutjengisa iinomboro.

Ngalokho enanini lama- $56 + 73$, ufumana amakarada lawa:

$$\begin{array}{r} 50 \textcolor{red}{6} \\ + 70 \textcolor{red}{3} \\ \hline \end{array}$$

Uhlanganisa ngaku-I bese ubeka phasi amakarada ali-q.

Uyazi: $50 + 70 = 120$.

Uthatha **amakhulu**, **namatjhumi** begodu nekarada **lamayunidi**

ukwenza inomboro enamadjidi ama-3.



Uyitlola ngendlela le:

$$\begin{aligned} 50 + 70 + 6 + 3 \\ = 50 + 70 + q \\ = 120 + q \\ = 100 + 20 + q \\ = 12q \end{aligned}$$

$$\begin{array}{r} 100 \\ + 20 \\ \hline q \end{array}$$

UTumi uyazi kobana amabhlogo asebenza njani. Wenza ama- $56 + 73$ ngendlela le:

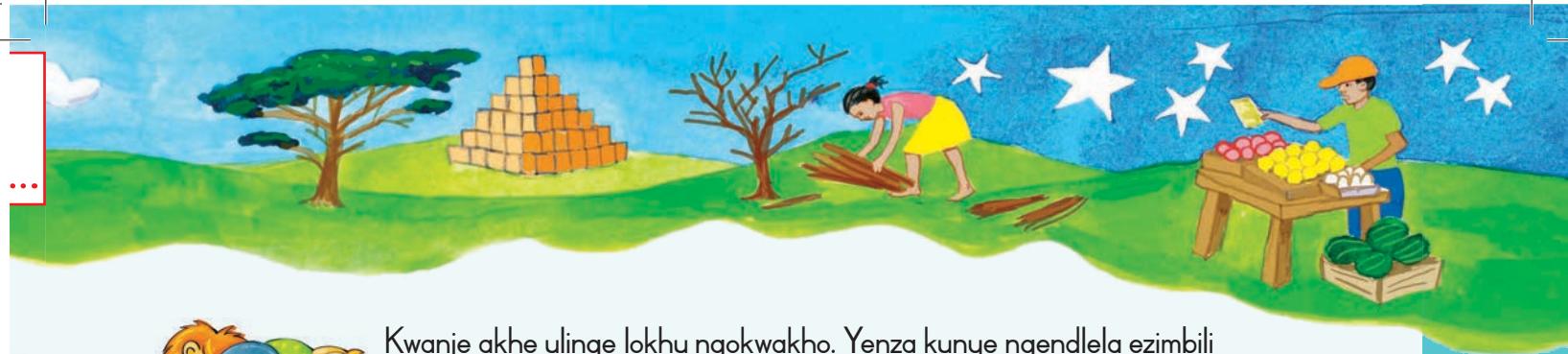
$$\begin{aligned} 50 + 6 + 70 + 3 \\ \cancel{50} \quad \cancel{6} \quad \cancel{70} \quad \cancel{3} \\ 120 + q \\ = 12q \end{aligned}$$



U-Aakar uthanda ukwenza lokhu: Ngithanda ukwenza okupheleleko. Le ngiyenza ngendlela le:

$$\begin{aligned} 56 + 73 \\ = 50 + 70 + 10 - 1 \\ = 130 - 1 = 129 \end{aligned}$$





Kwanje akhe ulinge lokhu ngokwakho. Yenza kunge ngendlela ezimbili ezihlukeneko.

a. $86 + 62$

Indlela yakaBusi.

$$80 + 60 + 6 + 2$$



Indlela yaka-Dumi

$$80 + 6 + 60 + 2$$



b. $72 + 63$

c. $81 + 57$

d. $69 + 71$

Sebenzisa iindlela ka-Aakar ukwenza lokhu.



Teacher:
Sign:
Date:

37b



Ilanga:

Ithemu 2



Hlanganisa (kuragela phambili)

Kwanje asikhuphe.

a. $87 - 53$

Indlela yakaBusi.

$$80 - 50 + 7 - 3$$

$$= 30 + 4$$

$$= 34$$



Indlela yaka-Tumi

$$80 + 7 - 50 + 3$$

$$\cancel{= 30} + 4$$

$$= 34$$



b. $95 - 73$

c. $86 - 62$

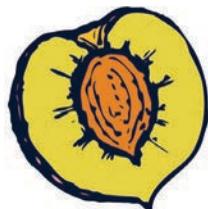
d. $85 - 69$



Rarulula!

Kuneendlela ezinengi zokuhlanganisa **ngamayunidi** **nangamatjhumi** ndawonye. Khetha indlela oyaziko begodu noyithanda khulu ukurarulula imiraro le. Tjengisa umsebenzakho.

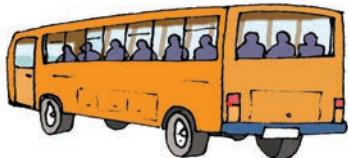
- a. UPeter uthoma ngokudobha iimperegisi ezima-34 begodu neemperegisi ezima-67.
Zingaki iimperegisi nasele zizoke?



- b. Abentwana bakaMalusi babulunga ama-R47 nasele awoke.
Unina ubanikela ngaphezulu amaranda ama-R58. Sebanamalini kwanjesi?



- c. Ibhesi yesikolo ikhamba 88 km ekuseni begodu 73 km ngemva kwedina.
Mangaki ama-km nasele awoke?



Teacher: _____
Sign: _____
Date: _____

38

Ilanga:

Ithemu 2



Iimvalo zamabhodlelo

Rarulula!

Sebenzisa enye nenyе indlela oyithandako.
Tjengisa umsebenzakho.



USipho



U-Andile

USipho ubala iimvalo zamabhodlelo ezima-87. U-Andile ubala ezima-38.

USipho ubale iimvalo ezingaki ngehla kwakaSandile?



Ikhonsadi yesikolo



UMusa

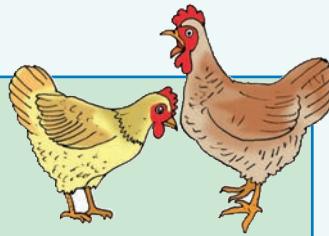


UMusa uthengise amathikithi. Unamathikithi ama-92 athoma ngawo. Usele nama-67.

Bekube njenganje uMusa sele athengise amathikithi amangaki?



Ukuzijayenza



Kunamadzinyani ama -69 ngepanini yinye begodu ama -95 angakenye. Kuneenkukhu ezingaki lapho nasele zizoke?
Funda kobana uGugu noAakar bawusombulula njani umraro.

Indlela kaGugu

$$\begin{aligned} & 60 + 90 + 9 + 5 \\ & = 100 + 50 + 14 \\ & = 150 + 10 + 4 \\ & = 164 \end{aligned}$$



Indlela kaAakar

$$\begin{aligned} & 69 + 95 \\ & = 70 + 95 - 1 \\ & = 70 + 90 + 5 - 1 \\ & = 160 + 4 \\ & = 164 \end{aligned}$$

Ingabe uyazi kobana kubayini Ngikhuphe ku-l?



- a. Abesana babuthelela ama -R96 ukulungiselela ikhambo letlasi. Abentazana babuthelela ama -R79. Ingabe babuthelele malini nasele iyoke?

Sebenzisa indlela kaGugu

Sebenzisa indlela kaAakar

- b. Isikolo sinye sibuthelela amabhlegana ama -76 kg. Esinye isikolo sibuthelela amabhlegana ama -68 kg. Ma-kg amangaki wamabhlegana abuthelelwwe ziinkolo ezimbili nasele awoke?

Sebenzisa indlela kaGugu

Sebenzisa indlela ka-Aakar



Teacher:
Sign:
Date:

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Ilanga:

Ithemu 2



Fumana ingcenyé

Tlola iinomboro ezitlhayelako.

a.

100	
	27

b.

100	
39	

c.

100	
43	

d.

100	
56	

e.

200	
140	

f.

200	
	110

g.

200	
135	

h.

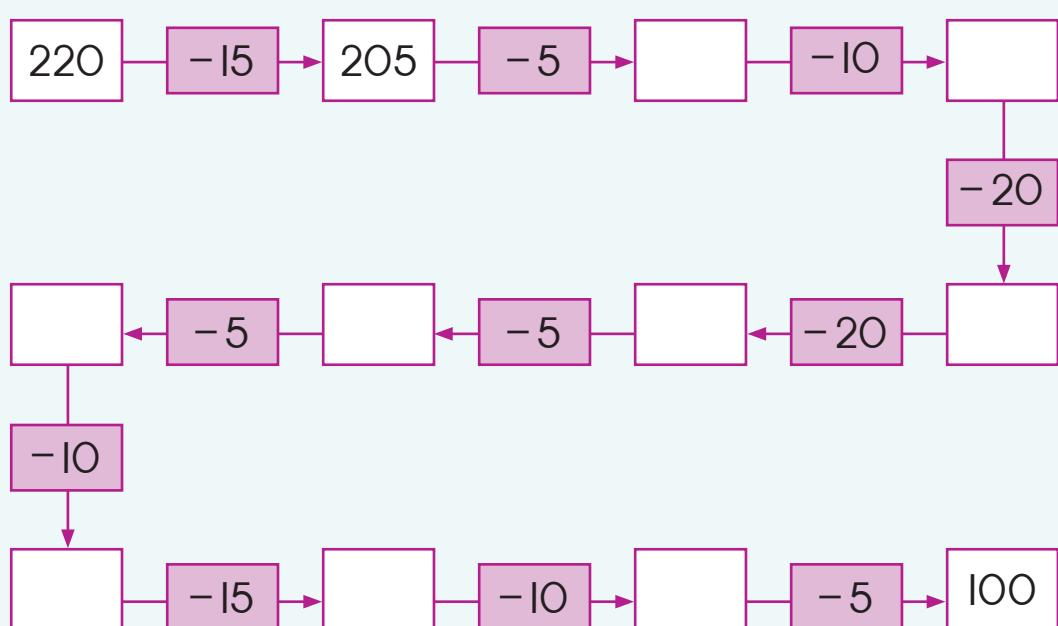
200	
	120



Ukukhupha sinyovana kusukela ema-220 ukuya e-100.

Ukhupha inomboro engebhoksini elipinki.

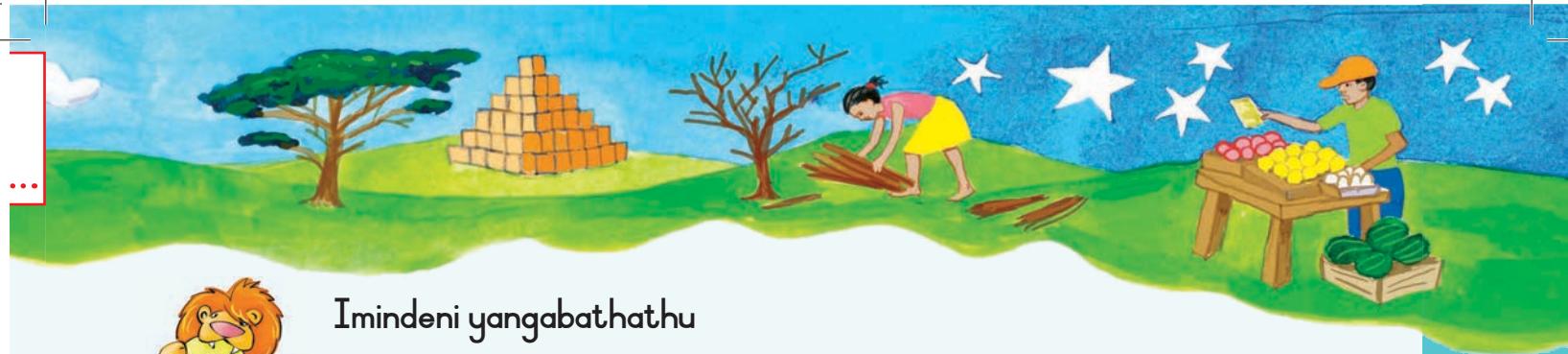
Yokuthoma selewenzelwe yona.



Nasi indlela
yokutjhega
iimpendulo
zakho!
Thoma
e-100!

Sebenzela
emva ukuya
ema-220.

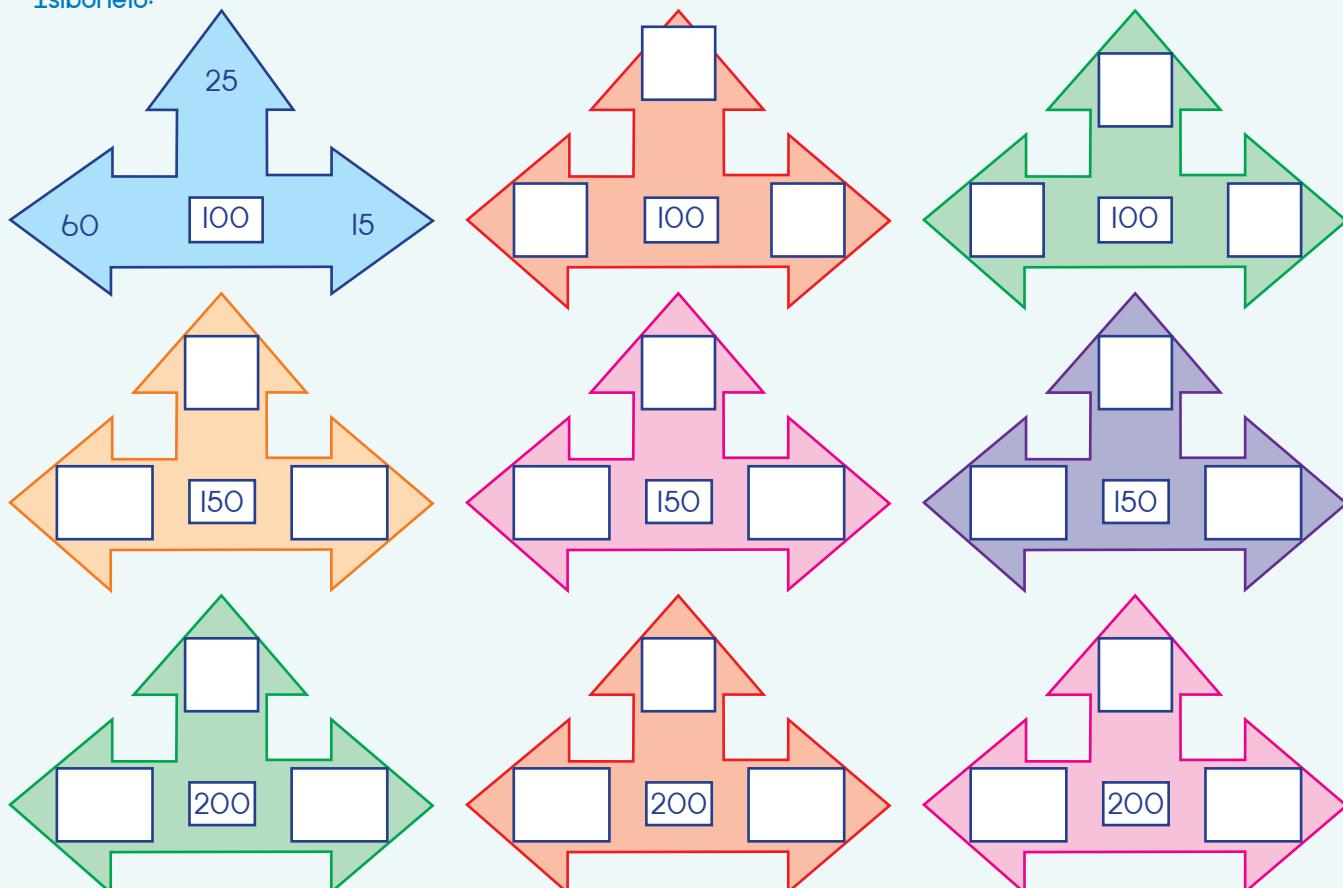
Kodwana
kwanjesi,
hlanganisa
iinomboro.



Imindeni yangabathathu

Fumana iinomboro ezi-3 ezihlanganisa inomboro enqophiweko. Kodwana kufanele ulandele umthetho othi yinomboro yinye kwaphela engaphelela ngo-O.

Isibonelo:



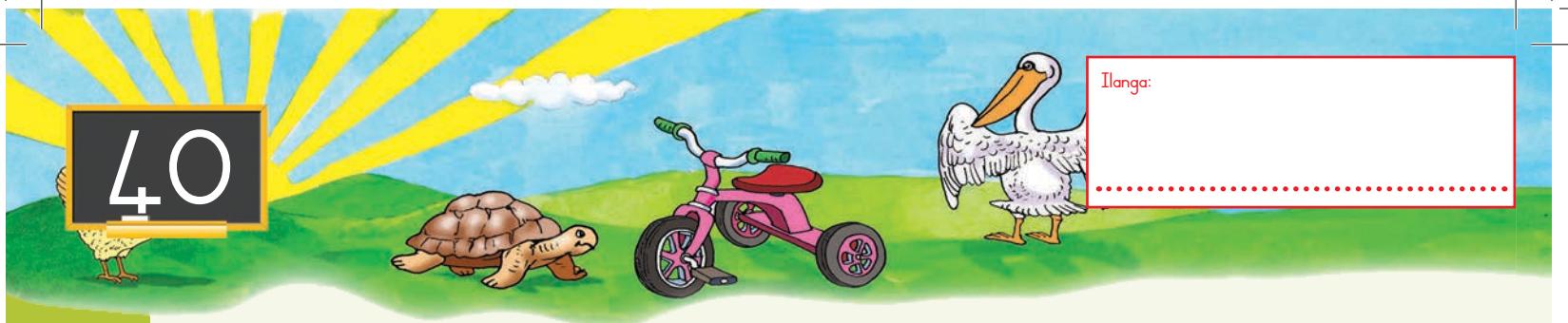
Amatjhumi ama-50 ngaphezulu namatjhumi ama-50 ngaphasi.

Tlola iimpendulo emideni wesi-2.

	70	125	150	81	96	122	134	III	70
+50									
	120								
-50									
	186	200	158	179	139	79	126	138	99
	136								



40

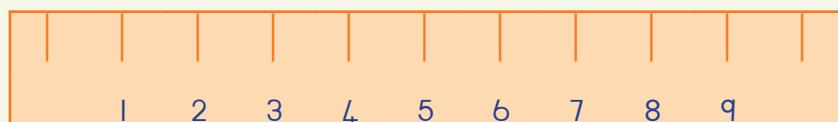


Ilanga:

Ithemu 2



Isentimitha lingangani?



Iinomboro eruleni zjamele **amasenthimitha**.

Sisebenzisa isirhunyezo namkha itshwayo **cm**.

Lokha nawusebenzisa irula, kufanele uthome ukumeda kusukela ku-O.

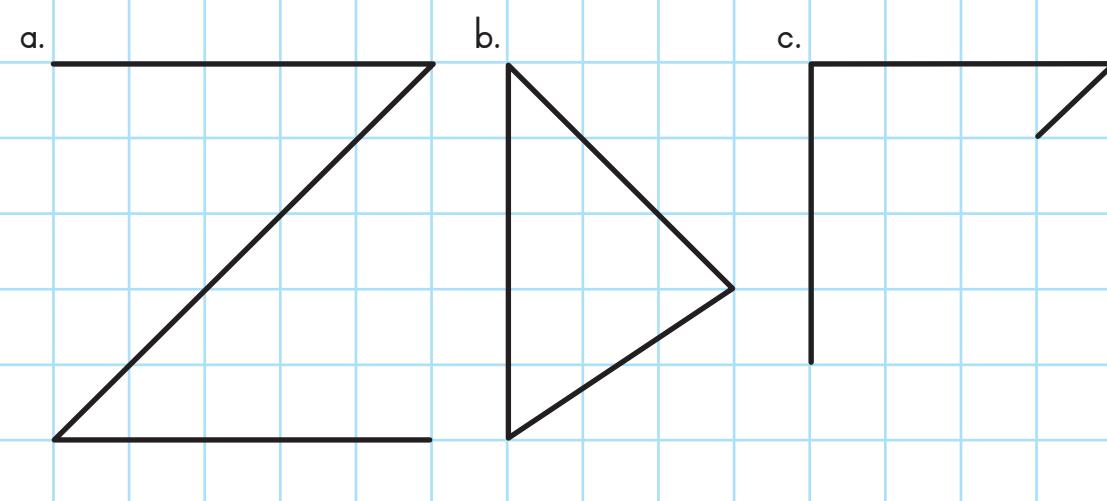
Amanye amarula akatjengisi u-O njengale esekhasineli.

Fumana uziro cm eruleni. Tlola u-O eruleni.

Ikuphi i-10 cm eruleni le? Tlola i-10 lapha.



Linganisa, bese ulinganisa ngefanelo ngerula yakho, inani elipheleleko lobude bemida leyo ngama-cm.



a. Linganisa <input type="text"/> ama-cm	b. Linganisa <input type="text"/> ama-cm	c. Linganisa <input type="text"/> ama-cm
Meda <input type="text"/> ama-cm	Meda <input type="text"/> ama-cm	Meda <input type="text"/> ama-cm



Ingabe umuda ngamunye mude kangangani?

Umuda ngamunye unama-cm amangaki ubude?

Sebenzisa umunwakho ukusize ukuqanta.

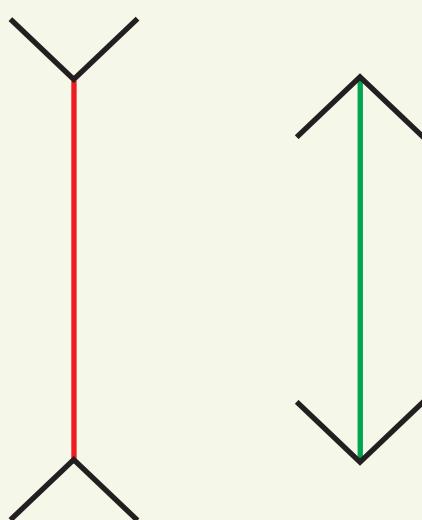
a. —————	<input type="text"/> cm	d.	<input type="text"/> cm
b. —————	<input type="text"/> cm	e. —————	<input type="text"/> cm
c. —————	<input type="text"/> cm	f. —————	<input type="text"/> cm



Uqinisekile?

Njimuphi omudenyana, umthala obomvu namkha umthala ohlaza satjani?

Ungatjhega bunjani?



Lokhu ngilokho okubizwa ngokuthi kuphambanisa amehlo. Kwenze ka lokha amehlwakho abona kwangathi kunento kanti ayikho. Imida emibili le iyalingana. Imida enzima elulekela ngaphandle yenza kobana imida ebovu ibonakale kwanga mide kanti imida enzima engenela ngaphakathi yenza imida ehlazakotjani ibonakale kwangamide.



4



Ilanga:

Ithemu 2

Kunqotjhwe kuma-300



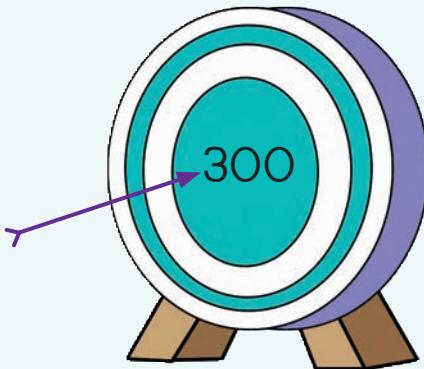
Bala bewutlole ama-200!

Bala kusukela ema-201 ukuya ema-300.

Khomba nawulokhu uragela phambili.

Zalisa iinomboro ezihlaza kwesibhakabhaka qange.

Tlola ebunengini beenomboro.



201					207			210
211								
221								
231								
							249	
				254				
						265		
								280
273					286			
281								
							298	300



Tlola iinomboro ezili-10 ezilandela ngemva kwama-300.

300; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____



Khuyini ukweqa?

30I

28I

17I

2II

10I



Tjhejisisa begodu umadanise

- a. Tlola iinomboro ezingena ngekaradeni elinye nelinye.

298;

208;

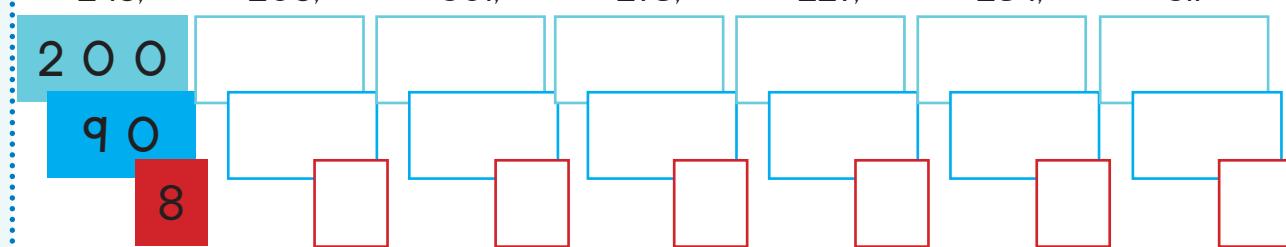
30I;

276;

227;

269;

3II



- b. Tlola iinomboro ngokulandelana kusukela kezincani ukuya kezikulu.

_____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____



Ubuyelwa yimalini? Tlola iinomboro ezithlayelako.

Thoma



Phetha



11 12 13 14 15 16 17 18 19 20

42



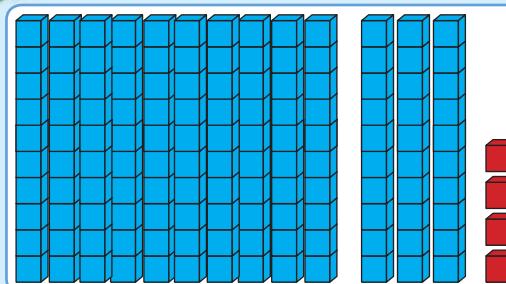
Ilanga:

Ithemu 2

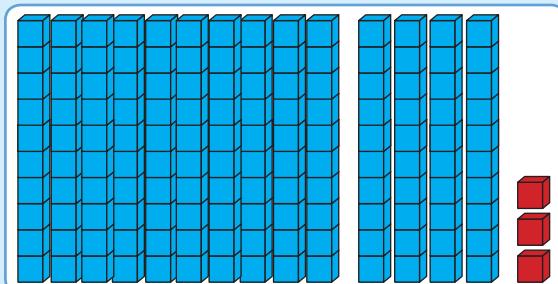


Ukuhlanganisa kanye nokukhupha ngama -100

Ukuhlanganisa usebenzise amabhlogo.



+



100

$$+ \begin{array}{r} 30 \\ 4 \\ \hline \end{array}$$

+

100

$$\begin{array}{r} 40 \\ 3 \\ \hline \end{array}$$

$$= \begin{array}{r} 200 \\ 70 \\ \hline 7 \end{array}$$

$$= \begin{array}{r} 277 \end{array}$$



Funyana iindlela ezimbili zokwenza lokhu. Tjengisa ipendulo enye nenyengetilela ezimbili.

a. $132 + 123$

Indlela yaka-Busi

$$\begin{aligned} &= 100 + 100 + 30 + 20 + 2 + 3 \\ &= 200 + 50 + 5 \\ &= 255 \end{aligned}$$



Indlela yaka-Tumi

~~$$\begin{aligned} &132 + 123 \\ &= 200 + 50 + 5 \\ &= 255 \end{aligned}$$~~



b. $114 + 162$



c. $276 + 148$



Funda enye nenyе indlela. Sebenza esinye nesinye isibalo ngeendlela ezimbili.

a. $158 - 146$

Indlela yakaBusi

$$\begin{aligned} &= 100 - 100 + 50 - 40 + 8 - 6 \\ &= 0 + 10 + 2 \\ &= 12 \end{aligned}$$



Indlela yakaTumi

$$\begin{aligned} &\cancel{1}5\cancel{8} - \cancel{1}4\cancel{6} \\ &= 0 + 10 + 2 \\ &= 12 \end{aligned}$$



b. $194 - 122$

c. $288 - 199$



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Ilanga:

Ithemu 2

Kunqotjhwe kuma-400

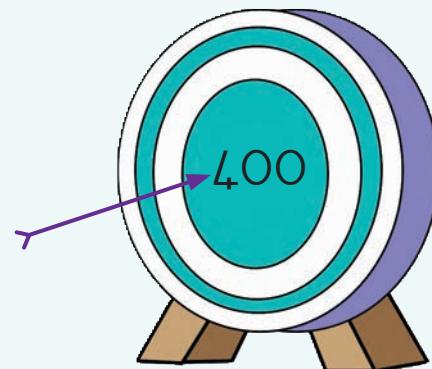


Ukubala kanye nokutlola ama-400

Ukubala kusuka kuma-300 bekufike kuma-400.

Phimisela/Yitjho iinomboro nawulokhu uya phambili ubala.

Tlola iinomboro ezitlhayelako kugridi.



301								310
				315				
								330
331			335					
							249	
				365		368		
		273						
								390
								400



Tlola ezinye iinomboro ezili-9 eziza ngemuva kwama-400.

400; _____; _____; _____; _____; _____; _____; _____; _____;

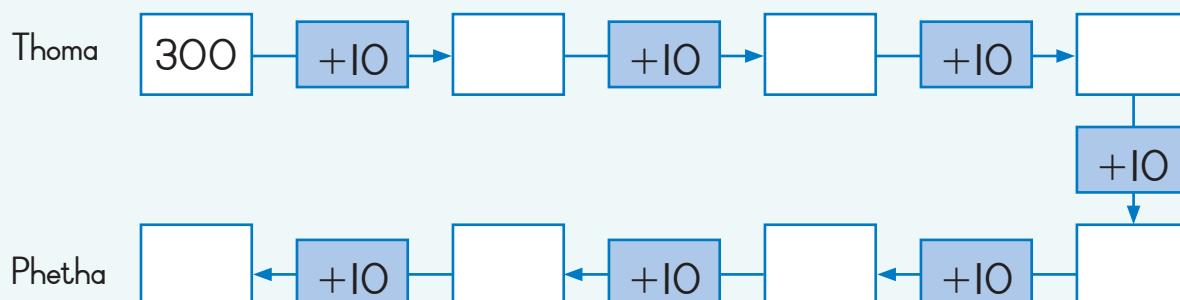
100

1 2 3 4 5 6 7 8 9 10

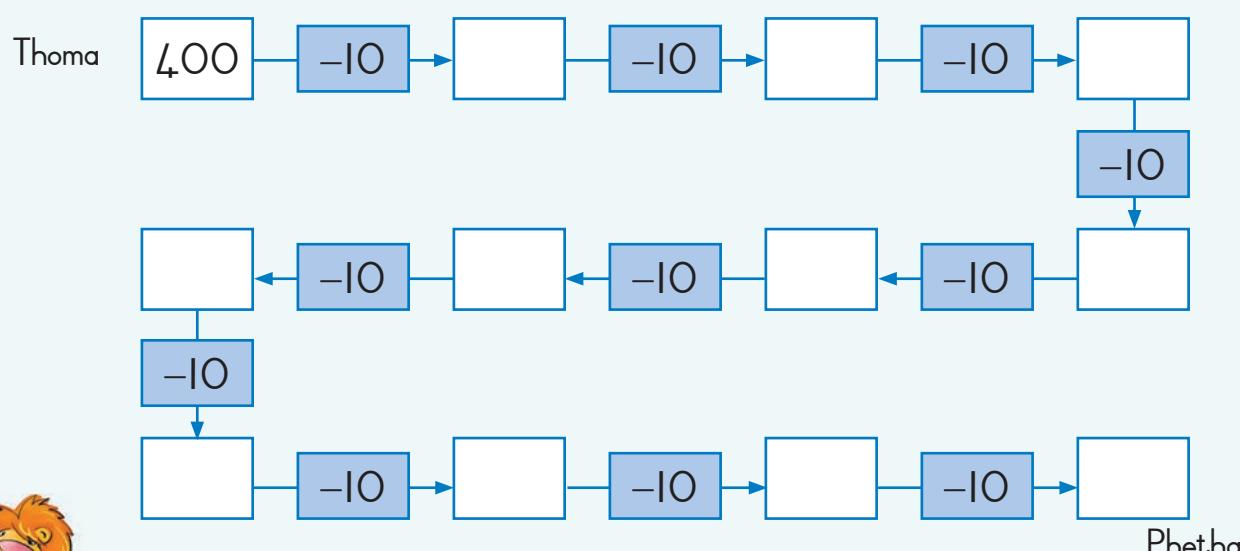


Bala uye phambili ubuye ubale sinyovana.

- a. Ukubala kusuka kuma-300 nokuya phambili



- b. Bala ukusuka kuma-400 ubuyele emuva ngama-10.



Tlola kube yinomboro eyodwa

$300 + 20 + 4 = \underline{\hspace{2cm}}$

$300 + 10 + 5 = \underline{\hspace{2cm}}$

$300 + 50 + 3 = \underline{\hspace{2cm}}$

$300 + 70 + 7 = \underline{\hspace{2cm}}$

$300 + 60 + 2 = \underline{\hspace{2cm}}$

$300 + 90 + 9 = \underline{\hspace{2cm}}$

$300 + 80 + 1 = \underline{\hspace{2cm}}$

$300 + 40 + 8 = \underline{\hspace{2cm}}$

Tlola inomboro ngokulandelana kusuke kencani kuye kekulu khulu.

 , , , , , , ,



Teacher:

Sign:

Date:

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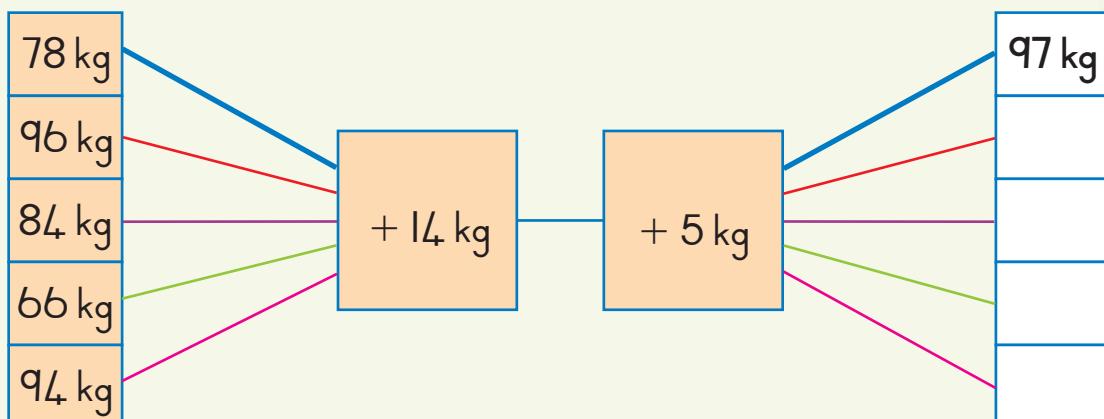
Ilanga:

Ithemu 2



Ngezelala ngamakhilogrammu

Hlanganisa begodu ufumane iimpendulo.



Yenza okupheleleko begodu uhlanganise!

Cabanga
kuhle!

Ujakalasi ma-25 kg	Ikghuru ma-98 kg	Ifene ma-59 kg	Umntwana wedube ma-88 kg	Iphelikheni ma-9 kg

Yenza ubudisi ngabunye buphelele ububandameze e-10 lama-kg.

Tlola ubudisi ngokulandelana kusukela kokubulula ukuya kokubudisi.

Linganisa ithothali yobudisi beenyamazana ezi-5.



Hlanganisa ubudisi



Kungenzeka ngingabibudisi njengawe. Ikgħuru omdala,
kodwana nginesiqiniseko ngimasinyana!

Amagadango

- Sebenzisa inani elenziwe ngokupheleleko.
- Linganisa ubudisi beenyamazana emadeni ngamunye.
- Bala ithothali.
- Madanisa amathothali amabili begodu tlola umehluko.



	Ngiyalinganisa	Ngiyabala	Umehluko
+			
+ +			
+ +			



Ubudisi baka Vusi

Tjhega. Madanisa. Lungisa.

UVusi uhlanganisa ubudisi bakhe nobudisi be begodu ne .

Ubudisi babo buma-**239 kg**. Ingabe uVusi unobudisi obungangani? Tjengisa ipendulo yakho.

--	--



Buyini ubudisi bam?

Dlala esiqhemeni. Dlheganani ...

Hlanganisa ubudisi bakho ebudisini bezinye zeenyamazana. Sebenza ithothali. Tjela isiqħema kobana ipendulo ithini. Ungabat jengisi umsebenzakħo! Kufanele balinge basebenze ubudisi bakho.



45



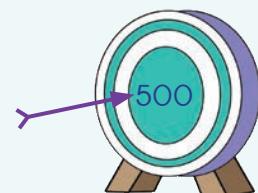
Ilanga:

Ithemu 2



Bala bewutlole!

								400
401				405				410
411								420
	422				427			
		434						
				446				
						458		
	462						470	
		473			477			
481								490
							499	500



- a. Ragela phambili nokubala kusuka ema-400. Yitjho iinomboro nawulokhu ubala.
- b. Tlola iinomboro ezithayelako ngegridini.
- c. Tlola iinomboro ezilandelako ezili-9 ngemva kwama-500.

500; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

- d. Bala ngaku-2. Tlola iinomboro ezilandelako ezibu-8 **ngephetheni yangaku-2**.

400; 402; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

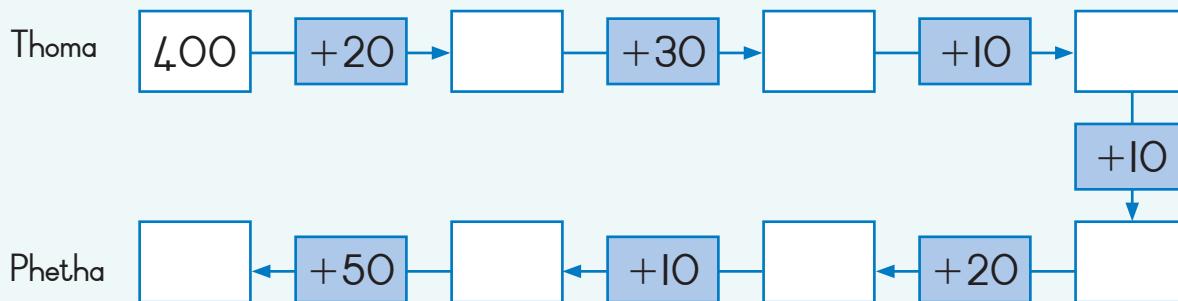
- e. Bala ngaku-5. Tlola iinomboro ezilandelako ezibu-8 **ngephetheni yangaku-5**.

400; 405; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

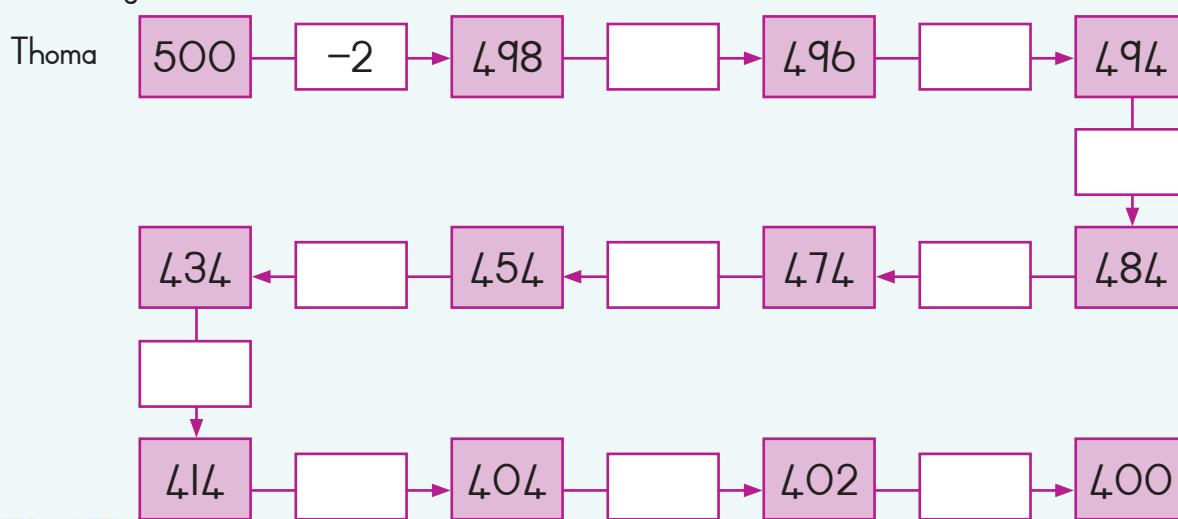


Zalisa ngeenomboro ezitlhayelako.

- a. Hlanganisa uye phambili kusukela ema-400.



- b. Bala ubuyele emva kusukela ema-500.



Tjengisa iinomboro. Landela isibonelo.

Fumana ithothali yeenomboro lezi. Sebenzisa ikarada lakho leenomboro ukutjengisa ithothali ngayinye.

$405 + 10$	415	$400 + 10 + 5$
$446 + 10$		
$455 + 10$		

$398 + 10$		
$424 + 10$		
$460 + 20$		

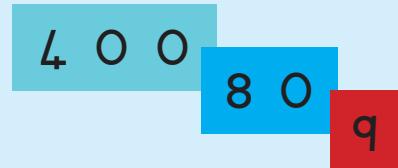
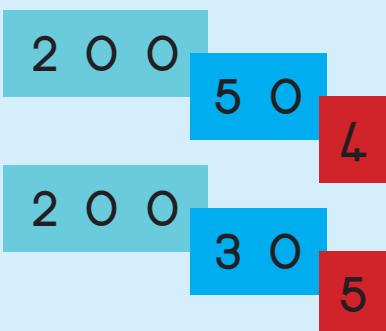


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Ilanga:

Ithemu 2

Okhunye ukuhlanganisa kanye nokukhupha



489



Siyokusebenzisa iindlela zakaBusi kanye no-Dumi zokubala godu ukuhlanganisa.

a. $245 + 231$

Indlela yakaBusi

$$= 200 + 200 + 40 + 30 + 1$$

$$= 400 + 70 + 1$$

$$= 471$$



Indlela yakaTumi

~~$245 + 231$~~

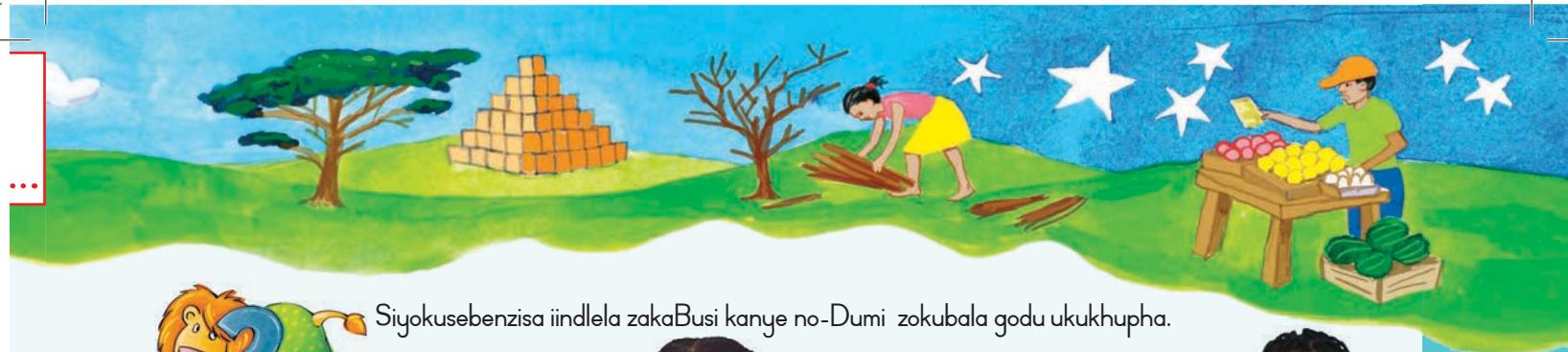
$$= 400 + 70 + 6$$

$$= 471$$



b. $278 + 136$

c. $265 + 148$



Siyokusebenzisa iindlela zakaBusi kanye no-Dumi zokubala godu ukukhupha.

a. $476 - 324$

Iindlela yakaBusi

$$\begin{aligned} &= 400 - 300 + 70 - 20 + 6 - 4 \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$



Iindlela yakaTumi

$$\begin{aligned} &\cancel{4}7\cancel{6} + \cancel{3}2\cancel{4} \\ &= 100 + 50 + 2 \\ &= 152 \end{aligned}$$

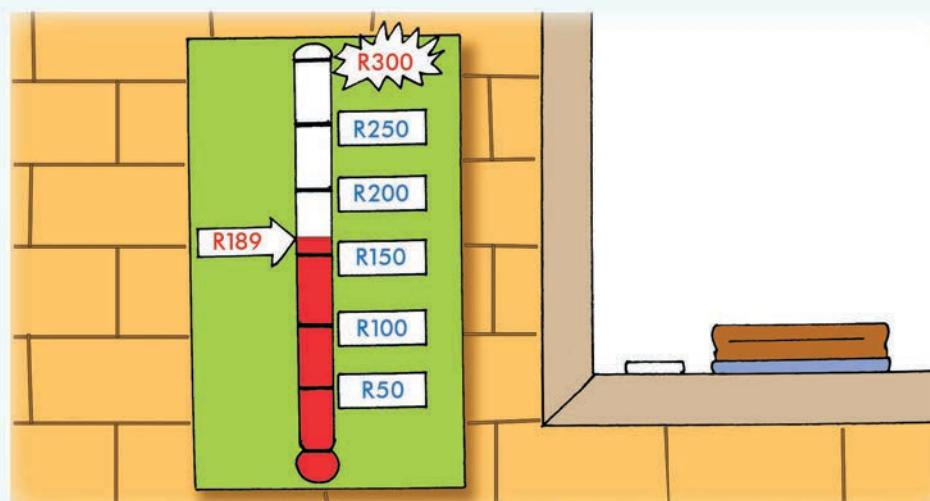


b. $489 - 456$

c. $482 - 161$



Funda okunqotjhiweko



Funda isithombe.

Kusele kangangani ukufikelela emnqopheni?

R



Teacher:

Sign:

Date:



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Ilanga:

Ithemu 2



Intaba yefihlo

Liyini ibizo lentaba ephezulu khulu eGauteng? Sebenzisa ikhowudi ukuyifumana. Madanisa ipendulo ngayinye etheyibuleni neledere elisekhowudini.

A	B	C	D	E	F	G	H	I	J	K	L	M
I	2	3	4	5	6	7	8	q	IO	II	I2	I3
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
I4	I5	I6	I7	I8	I9	20	2I	22	23	24	25	26

Umtlhala weenomboro	Ipendulo	Iledere
Isibonelo: $2 \times 3 \times 3 \times 1 = \square$	18	R
$50 + 50 + 50 + 100 - 200 - 45 = \square$		
$1 + 2 + 7 + 10 + 7 + 1 - 14 = \square$		
$60 - 30 + 50 + 20 - 50 - 15 - 20 = \square$		
$3 + 2 + 7 + 1 + 2 + 1 + 3 = \square$		
$5 + 3 + 30 = 4 + 2 + 12 + \square$		
$100 - 5 - 70 = 20 + \square$		
$36 + 44 - 60 - 22 = \square$		
$10 + 15 = 14 + \square$		
$2 + 1 + 14 + q + 14 = 25 + \square$		
$1 \times 2 \times 2 \times 2 \times 2 = \square$		
Ibizo lentaba yi:		



Qala! Cabanga, begodu phendula!

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

- a.
- | | |
|--|-------|
| Inomboro 16 izokuba libumbeko liphi? Tshwaya (✓) elilungileko. | ★ ● ☽ |
| Inomboro 18 izokuba libumbeko liphi? Tshwaya (✓) elilungileko. | ★ ● ☽ |
| Inomboro 28 izokuba libumbeko liphi? Tshwaya (✓) elilungileko. | ★ ● ☽ |
- b.
- | | |
|----------------------------|--------------------------|
| Inomboro-50 izokuba li-★. | Liqiniso namkha Mamanga? |
| Inomboro-100 izokuba li-●. | Liqiniso namkha Mamanga? |
| Inomboro-23 izokuba li-☽. | Liqiniso namkha Mamanga? |



Ngikuphi okunengi?

Ukuthola ama-R2.50 wesikhwama
ngelanga enyangeni kaJuni noJulyai.

Nanyana ukuthola ama-R150 ithothali
yemali yokudla esikolweni yenyanga
yoke.

Tjengisa ukuthi uzoyisebenza njani.

Hholisa. Madanisa. Lungisa.



Teacher:
Sign:
Date:

II 12 13 14 15 16 17 18 19 20

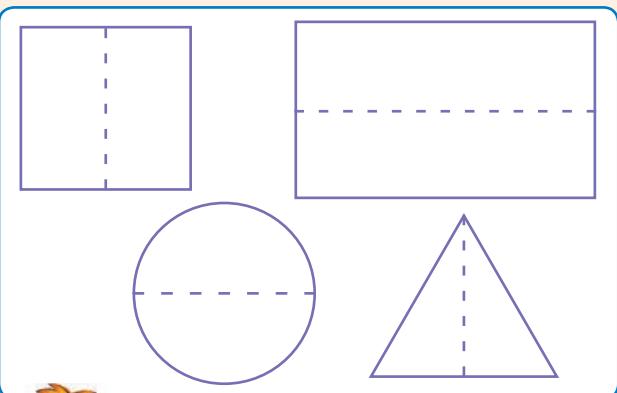
48

Ilanga:

Ithemu 2

Ukufana nca zoke/isimethri

Ngikuphi okuyevelako ngamajamo?

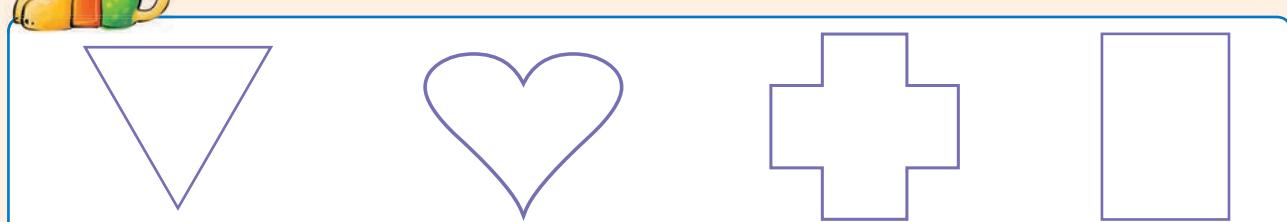


Umuda wesimethri wehlukanisa amahafu amabili phakathi ukuze ihafu eyodwa itjengise ubujamo benye ihafu.

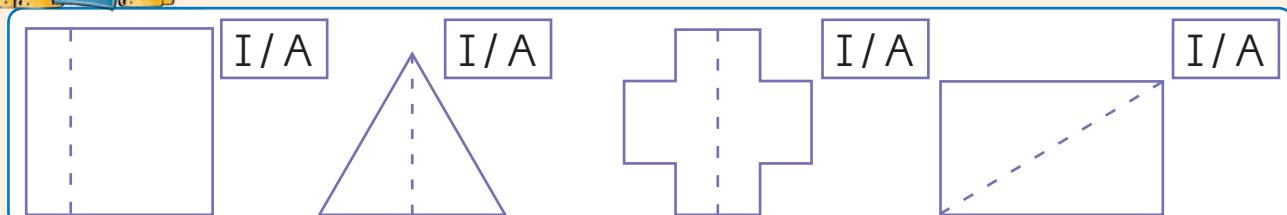
Ubujamo ngabunye bunayo isimethri lokha nawugoba phakathi bewuhlanganise iphepha ukuze ingcenyenye zombili zilingane.



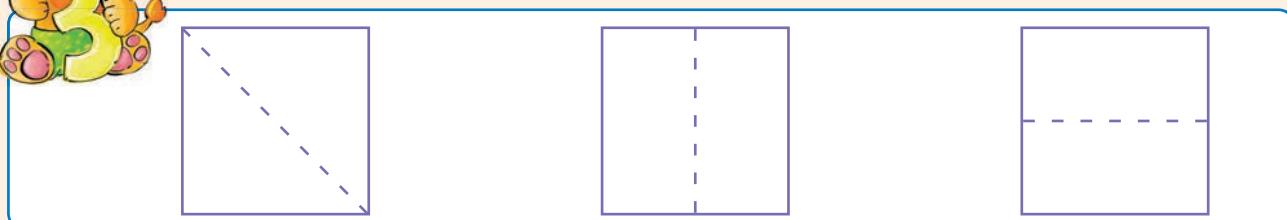
Gwala umuda olinganisa nca zoke ejameni ngalinye.



Ingabe umuda omacaphaza mumuda owenza kobana kulingane nca zoke? Ndulungela (Iye) nawuvumako namkha (Awa) nawulandulako.



Ingabe lowo mumuda olinganisa nca zoke? Kungani utjho njalo?

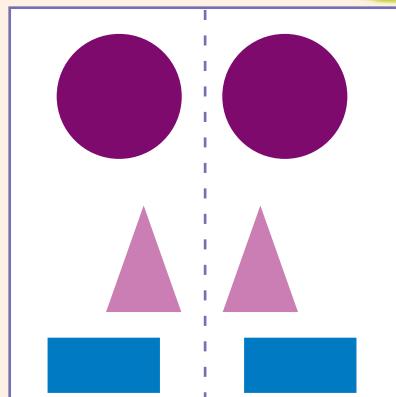




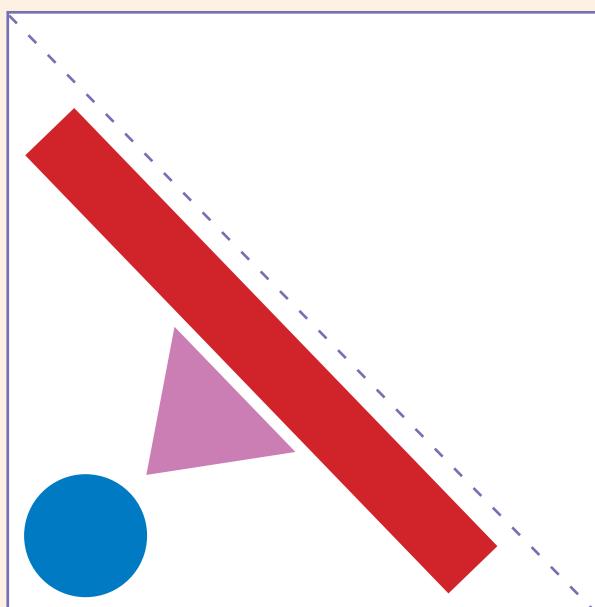
Gwala amajamo ukwenza isithombe silingane nca zoke.

Sewenzelwe isibonelo.

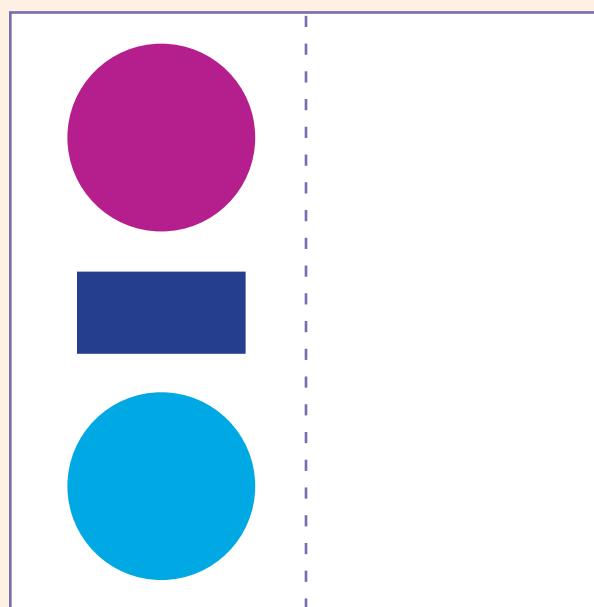
a.



b.



c.



Zenzele
wakho umuda
olingana
nca zoke
usebenzisa
amajamo.



49



Ilanga:

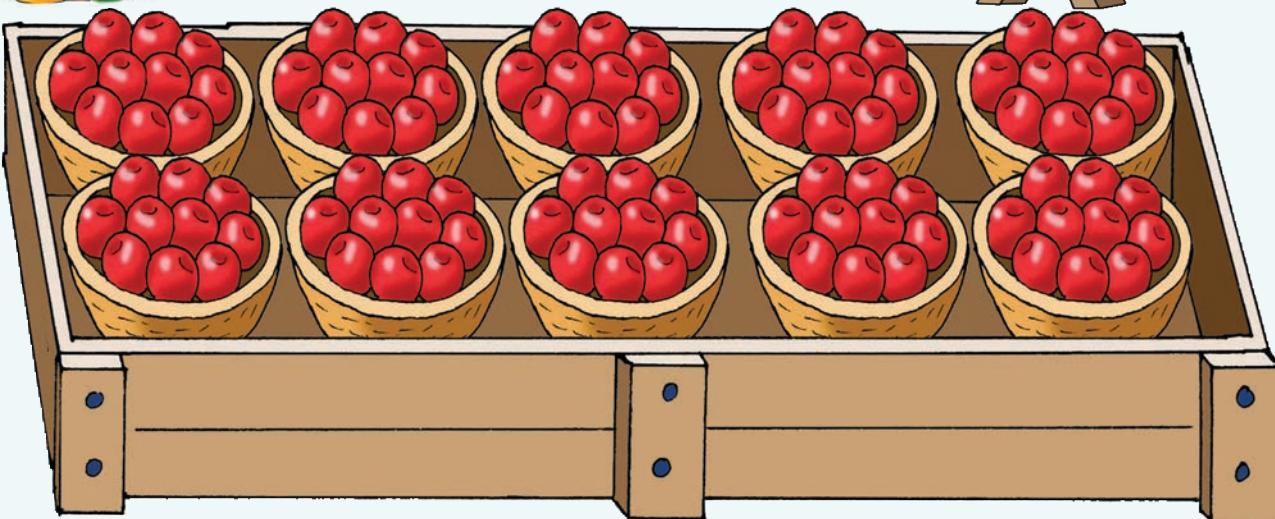
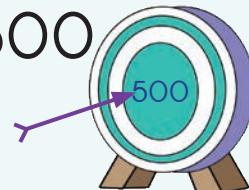
.....

Ithemu 2



Ukwakha bewufike kuma - 500

Bala ama-apula



Qedelela bewubuyebyelele.

Umantji owo-l ufaka ama-apula ____.	$1 \times 10 = 10$
Abomantji aba-3 bafaka ama-apula ____.	$3 \times 10 =$
Abomantji aba-5 bafaka ama-apula ____.	
Abomantji aba-4 bafaka ama-apula ____.	
Abomantji aba-2 bafaka ama-apula ____.	
Ikhreyidi li-l liphatha 100 wama-apula.	Amakhreyidi ama-2 aphatha ____ wama-apula.
Amakhreyidi ama-3 aphatha ____ wama-apula.	Amakhreyidi ama-4 aphatha ____ wama-apula.
Amakhreyidi ama-5 aphatha ____ wama-apula.	Amakhreyidi ama-2 nohafu aphatha ____ wama-apula.

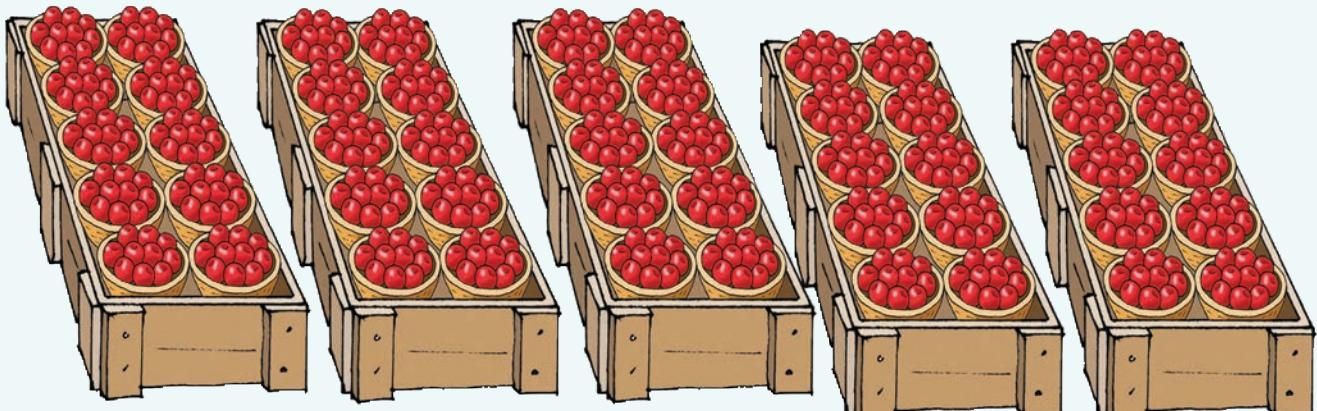


Kunama-apula ali-10 ngemantjini mu-l.

Kune _____ labomantji ngekhreyidini linye.

Kune _____ yama-apula ngekhreyidini linye.

Mangaki ama-apula alapho sekawoke? _____



Bala, utjengise bewutlolo

Thoma ngokusebenzisa amakarada weenomboro ukutjengisa
ithothali ngayinje. Bese utlola inomboro.

300

40

5

$$\begin{aligned} \text{Amakhreyidi ama-3} & \quad \text{+ abomantji aba-4} \quad \text{+ yama-apula 5} \quad \text{apple icon} \\ = 345 \text{ yama-apula} & \end{aligned}$$

$$\begin{aligned} \text{Amakhreyidi ama-4} & \quad \text{+ abomantji aba-5} \quad \text{+ yama-apula 7} \quad \text{apple icon} \\ = \text{_____ yama-apula} & \end{aligned}$$

$$\begin{aligned} \text{Amakhreyidi ama-5} & \quad \text{+ abomantji aba-2} \quad \text{+ yama-apula 3} \quad \text{apple icon} \\ = \text{_____ yama-apula} & \end{aligned}$$

$$\begin{aligned} \text{Amakhreyidi ama-4} & \quad \text{+ abomantji aba-7} \quad \text{+ yama-apula 2} \quad \text{apple icon} \\ = \text{_____ yama-apula} & \end{aligned}$$



Teacher:
Sign:
Date:

50



Ilanga:

Ithemu 2

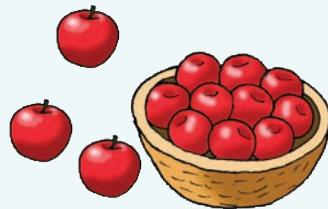
Ukubuyabuyeleta kanye nokwehlukanisa (ngokuli -10)



Ukubala ama-apula.

Zalisa ithebula.

Bangaki abomantji abafaka ama-apula?

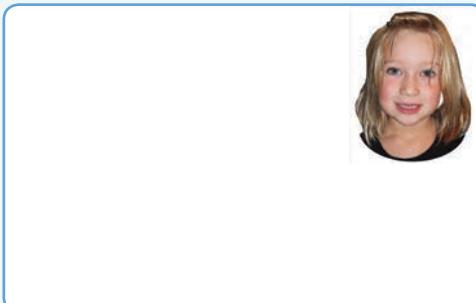
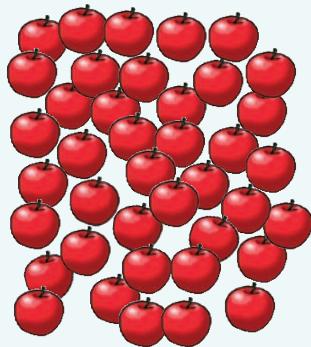


Ama-apula	10	20	30	40	50
Imantji	1	2			
÷ isibalo					$50 \div 10 = 5$
× isibalo					$5 \times 10 = 50$



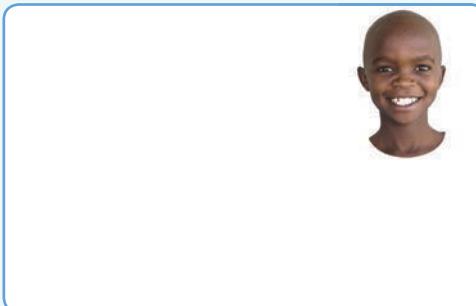
Yabela abentwana ama-apula. Yenza umgwalo. Tlola isibalo sokuhlukanisa neso kubuyabuyeleta ukuze utjhege ipendulo yakho.

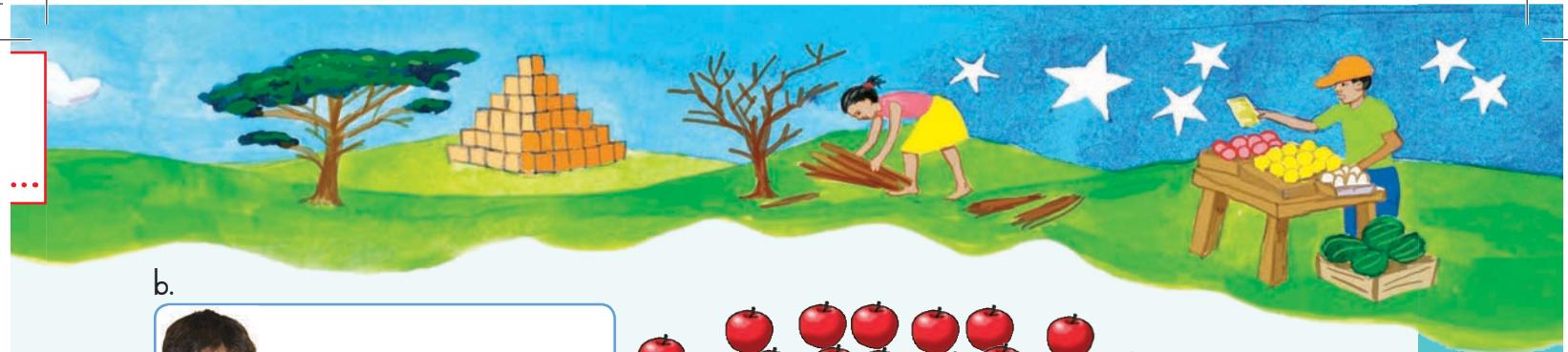
a.



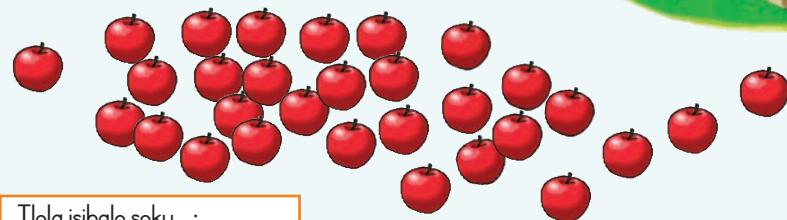
Tjhega ipendula.

 $\square \div \square = \square$

 $\square \times \square = \square$




b.



Tlola isibalo soku \div



Tlola isibalo soku \times ukuze
uhlolise iimpendulo zakho.



Sebenzisa iinomboro ukuzenzela yakho imitjho yeenomboro.



$$\div \quad 40 \div 10 = 4$$

$$\times \quad 4 \times 10 = 40$$



$$\div \quad \boxed{} \quad \times \quad \boxed{}$$



$$\div \quad \boxed{} \quad \times \quad \boxed{}$$



$$\div \quad \boxed{} \quad \times \quad \boxed{}$$



Nikela inomboro eli-10 ubuncani kanye nenomboro eli-10 ubukhulu kunaleyo enikelweko.

____, 460, ____

____, 390, ____

____, 500, ____



Teacher: _____
Sign: _____
Date: _____

51



Ilanga:



Ukubala ngaku-2

Ukubala uye phambili ngaku-2 bewubuyele emuva.

- 232; 234; _____; _____; _____; 242; _____; _____; 248
- 500; _____; 496; _____; _____; 490; _____; _____; _____
- 460; _____; _____; 400; _____; 360; _____; _____; _____
- 341; _____; 361; _____; _____; 391; _____; 411; _____; _____



Ipara yamadlhavu



- Ziimpara ezingaki zamadlhavu emudeni munye? _____
- Mangaki amadlhavu ngalinye emudeni munye? _____
- Mimida emingaki? _____
- Madlhavu amangaki nasele awoke? _____
- Tjengisa kobana uyisebenze bunjani.
- Tlola ipendulwakho njengomutjho weenomboro.
_____ × _____ = _____



Madlhavu amangaki?

Tlola amatheyibula.

a.

Amaglavu		1		10		5		50		4		40		3		30		100
Inomboro zamaglavu		2																

b.

Amaglavu	20	21	70	73
Impara ezingenziwa				
Amadlhavu angalinye aseleko				



Bala ngaku-2

a. Ngiyiphi inomboro eba hlangana nawubala ngakubili?

264, _____, 268	391, _____, 395	414, _____, 410
-----------------	-----------------	-----------------

b. Tlola iinomboro ezimbili ezilandelako.

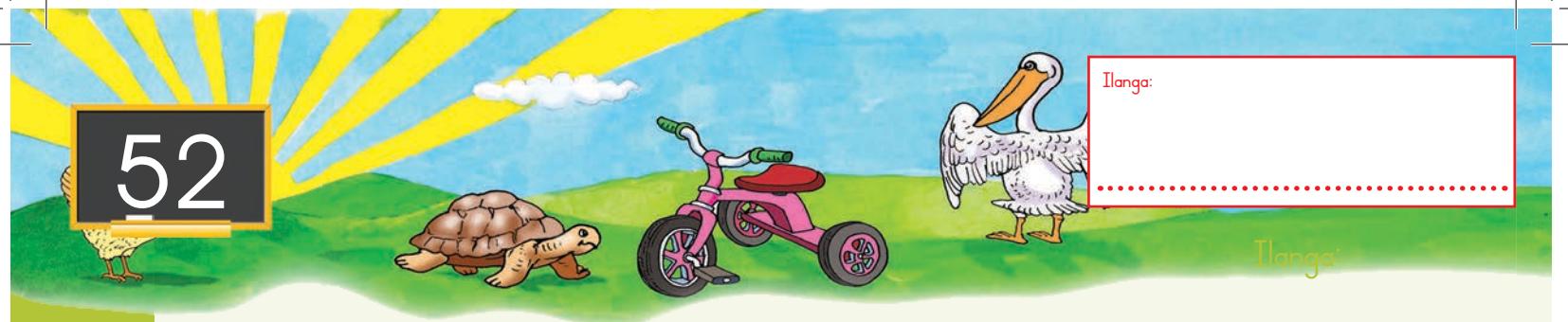
373, 375, <u>377</u> , <u>379</u>	480, 482, _____, _____	262, 264, _____, _____
-----------------------------------	------------------------	------------------------

c. Tlola iinomboro ezimbili ezilandelako.

346, 348, _____, _____	415, 417, _____, _____	297, 299, _____, _____
------------------------	------------------------	------------------------



11 12 13 14 15 16 17 18 19 20



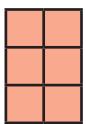
Ukuhlela isivande

UKkz. Mabena unamathayilesi amahle.

Uwasebenzisela ukupheyiva indawo esesivandeni sakhe.

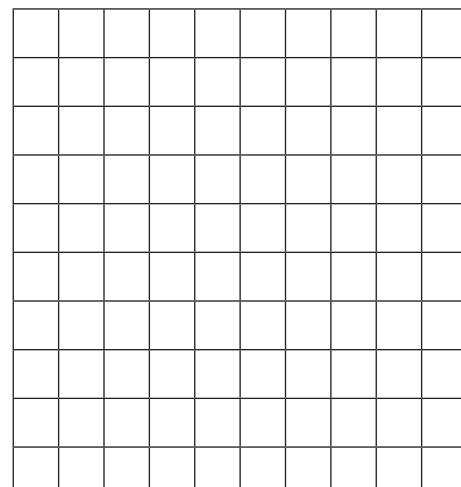
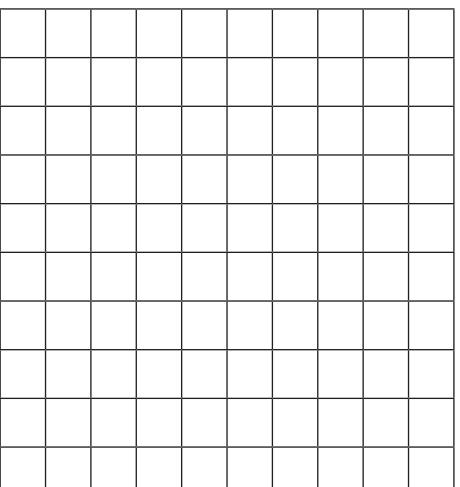
Kunamathayilesi ama-6 asikwere wobukhulu obulinganako.



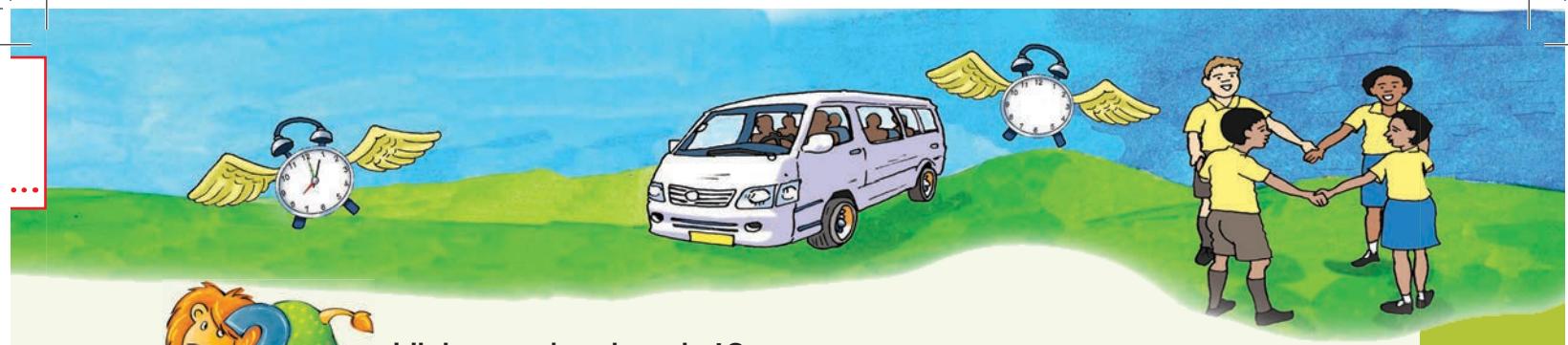
Ngingenza umuda mu-1 ngamathayilesi asi-6.	Ngingenza imida emi-2 ngamathayilesi ama-3 emudeni.	Ngingenza imida emi-3 ngamathayilesi ama-2 emudeni ngamunye.
 $6 \times 1 = 6$	 $3 \times 2 = 6$	 $2 \times 3 = 6$

Kwanjesi lidlhego lakho!

Khalara amabhlogo ukutjengisa kobana ungahlela bunjani amathayilesi abu-8 na-9.

iinkwere ezi-8	iinkwere ezili-9
	

Tlola iinomboro zemitjho emdwabeni ngamunye.



Hlela amathayilesi ali-12

UThabo unamathayilesi ali-12 asikwere ukupheyiva ngaphandle komtlhatlhana wakhe. Msiza athole iindlela angenza ngazo.

Tlola inomboro yomutjho wendlela ngayinje.

Isibonelo:	$1 \times 12 = 12$
	$12 \times 1 = 12$



Hlela amathayilesi ama-24

- Sebenzisa igridi kuSika-2.
- Khalara amabhlogo ama-24 ngeendlela ezihlukeneko.
- Tlola iinomboro zemitjho ukumadanisa umdwabo ngamunye.

--



Ngingabuyabuyelela!

$12 = 2 \times$ <input type="text"/>	$3 \times$ <input type="text"/> $= 12$	$9 =$ <input type="text"/> $\times 3$
$6 = 3 \times$ <input type="text"/>	<input type="text"/> $\times 3 = 12$	$24 = 3 \times$ <input type="text"/>



53

Ilanga:

Ithemu 2

Usebenzise abokuhlanu



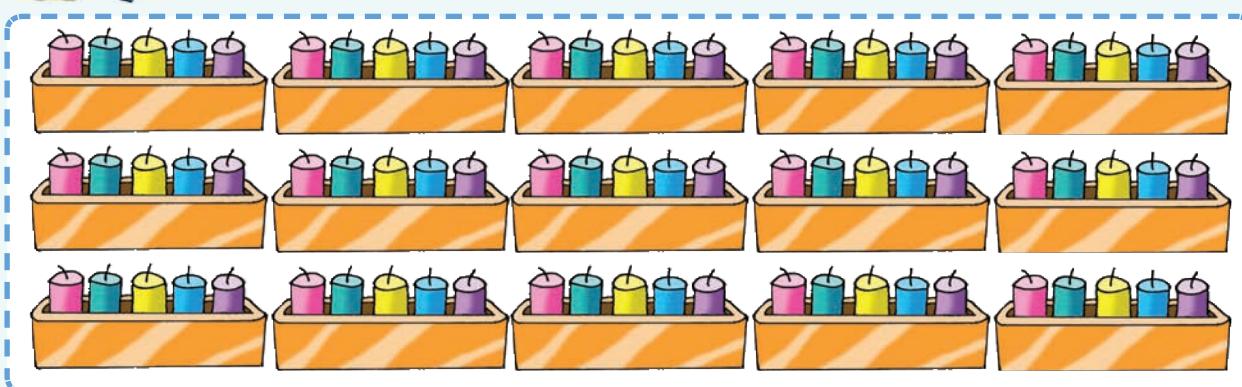
Yazi ku-5 kwakho

Zalisa iimpendulo.

	1	2	3	4	5	6	7	8	9	10
$\times 5$	5									



Bala amakerese



- Mangaki amakerese ngebhoksini ngalinye? _____
- Mabhoksi amangaki _____
- Mangaki amakerese ereyini ngalinye _____
- Makerese amangaki nasele awoke? _____



Tjengisa ipendulo

Thika (✓) inomboro yomuthjo etjengisa ithothali yamakerese

a. $5 \times 3 \times 3 = \square$ b. $15 \times 3 = \square$ c. $3 \times 5 \times 5 = \square$ d. $15 \times 5 = \square$



Bala uye phambili nemva ngaku-5

- 85; _____; _____; 70; _____; _____; 55; _____; _____
- 240; _____; _____; 255; _____; _____; _____; _____; 280
- 405; _____; 395; _____; _____; 380; _____; _____; 365; _____



Buthelela ama-R5 wesimbi



Qedeleta umutjho: Abentwana babuthelela imali eyisimbi yenani lama-R5. Bafanele babuthelela imali eyisimbi ema-R5 amangaki ukuze babuthele imali elingana R ____? Ezimbili zokuthoma sele sikwenzele.

$R5 \div 5$ = 1 yekhoyini	$R10 \div 5$ = 2 yamakhoyini	R15? _____	R20? _____	R25? _____
R30? _____	R35? _____	R40? _____	R45? _____	R50? _____

$$2 \times R5 = \boxed{}$$

$$4 \times R5 = \boxed{}$$

Uyayibona iphetheni?

$$6 \times R5 = \boxed{}$$

$$8 \times R5 = \boxed{}$$



Buyabuyelela ngaku-5

Isibonelo: I \times 5 = 5; II \times 5 = 55; III \times 5 = 105

Cabanga kuhle! Yakha ngamaphuzu owaziko!

I	2	3	4	5	6	7	8	9	10
5	10								
II	12	13	14	15	16	17	18	19	20
55									



11 12 13 14 15 16 17 18 19 20

54

Itthemu 2



Ulkusebenza ngesikhathi



Dweba/gwala iinkhathi

				Siquntu ngemva kweli-5	Yikotara ngaphambi kweli- tjhumi nalinje	Yikotara ngemva kweletjhumi nambili-12	12:45	6:15	4:30
--	--	--	--	------------------------------	--	---	-------	------	------

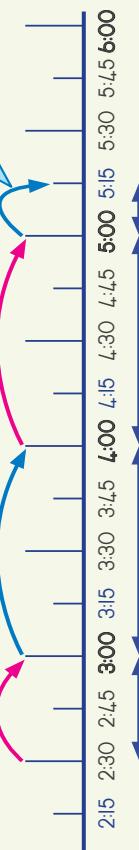
Umraro wesikhathi

Umma ka! Nomsa usuka ekhaya **ng-e-2:30** ngemva kwedina.
Ubuya **ng-e-5:15** ntambana. Ulkhambe isikhathi esingangani?

Bese kufanele uvele
weqa ama-iri
dili-7 ngaphbezulu
ukufika ku-5:15
ngemva kwedina.

Ukweqela phambili
godu elinye i-ri loke
kuzakuleha ku-5:00
ngemva kwedina.

Nakhe weqela
phambili ama-iri dili-
kuzakuleha ku-3:00
ngemva kwedina..



Godu ne-
1/2 ye-iri na wuyihlanganisa nama-iri amabili azelko kwenza ama-iri ama 2½.
Godu ne-
1/2 ye-iri ngaphbezulu yenza ama-
2¾ ye-iri namakotara amathathu nohafu sekawoke.

1 2 3 4 5 6 7 8 9 10

Holisia Madanisa. Lungisa.
Sombulula umraro ngamunye. Sebenzisa imida yesikhathi ukukusiza.

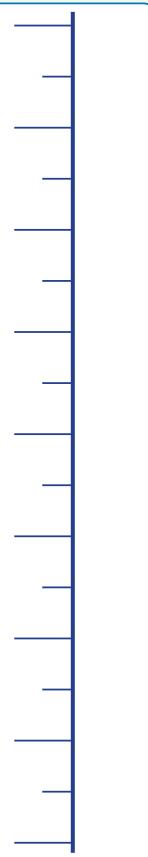
Imiraro yesikhathi

a. UQuenele uvakujhela ujise etliniga **ng-e-15:45**
ngemva kwedina. Usuka **ng-e-17:15**.
Uyakejhe isikhathi esingangani?

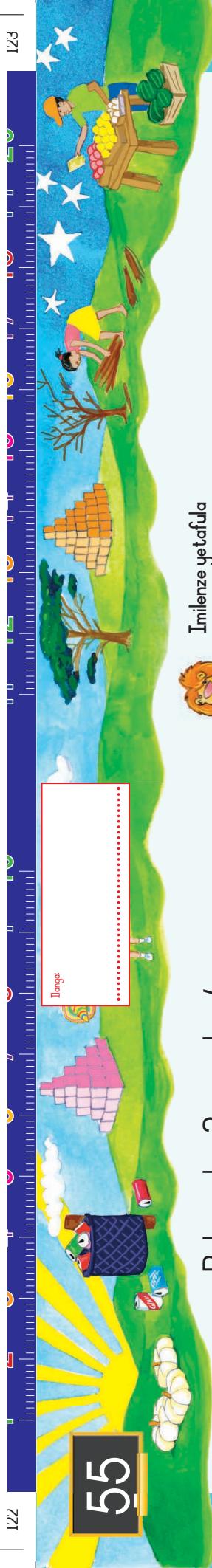


- b. UMsusa uyaephageni **ng-e-10:45**.
Ubuya ekhaya **ng-e-12:30**.
Ulkhambe isikhathi esingangani?

- c. UTumi uthoma ukufunda **ng-e-13:15**.
Uageda **ng-e-14:45**.
Ingabœutumi ufunde isikhathi esingangani?



1 2 3 4 5 6 7 8 9 10

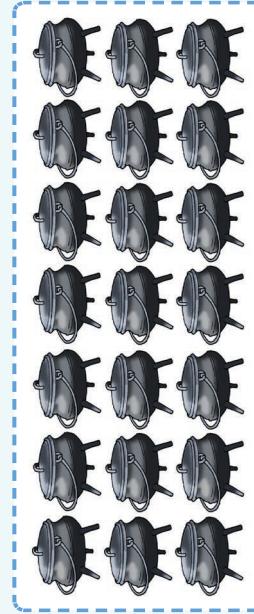


Bala ngaku-3 nangaku-4

Impoto ezingakhi ereyini?

Hanganisa bese
utola ipendulo.

Itthemu 2



a. Ziimpoto ezingakhi ereyini?

b. Milenze emingaki ereyini?

c. Mareyj amangaki weempoto?

d. Milenze emingaki nasele iyoke? Tjengisa kobana ujisebenze njani ipendulo.

Tshwaya (✓) ngiziphi iimomboro zemithjo ezingaphasi eztijengisa ithothali.

$$2 \times 7 = \square \quad 3 \times 7 \times 3 = \square \quad 3 \times 4 \times 2 = \square \quad 21 \times 3 = \square$$

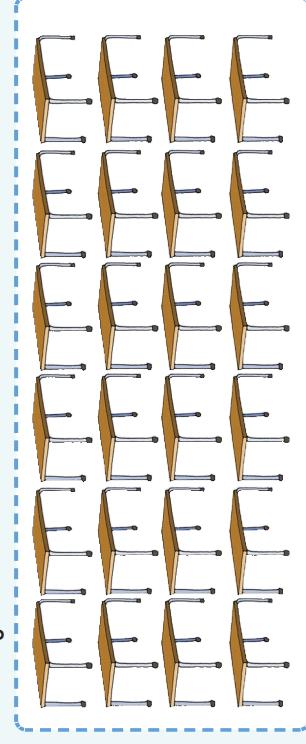
Milenze emingaki?

Cabanga masinjana.
Cabanga kuhle.



Impoto ezi-1	3 imilenze	Impoto ezi-10	imilenze	Impoto ezi-5	imilenze
Impoto ezi-2	imilenze	Impoto ezi-15	imilenze	Impoto ezi-12	imilenze
Impoto ezi-5	imilenze	Impoto ezi-13	imilenze	Impoto ezi-14	imilenze

Imilenze yetafula



a. Matafula amangaki ereyini?

b. Milenze emingaki ereyini?

c. Mareyj amangaki wamatafula?

d. Milenze mingaki nasele iyoke? Tjengisa kobana ujisebenze bujigni.



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

Teacher:
Sign: _____
Date: _____

Umbozia wenza amatafula. Utchoma ngokwenza imilenze.
Bekube nje sele enze ama-48. Angenza amatafula amangaki?
Ingabe usatlhoga imilenze emingaki ukwenza enye itafula?



Qedelela igridi ngokuzalisa impendulo

2	3	4	5	8	10	11	12
× 3	6						
× 4	8						



1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

56

Ukubala ngama - 50

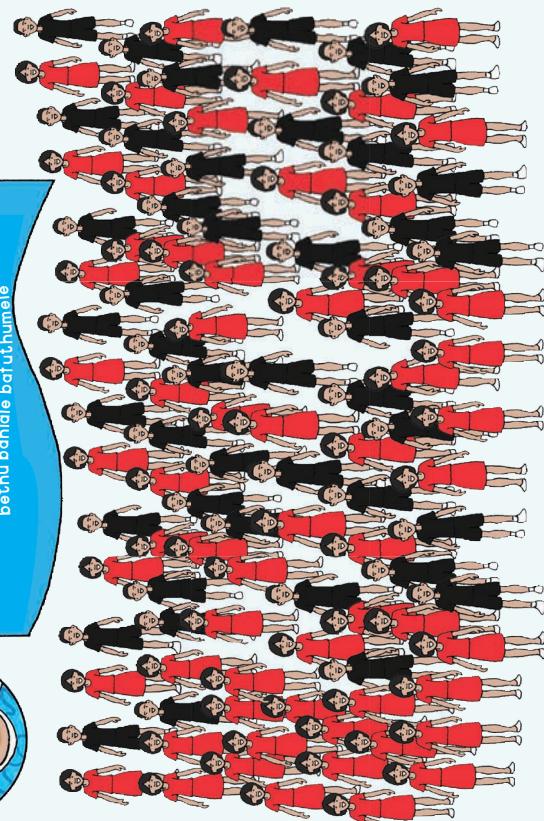
Umntwana munye, ingubo yinye!

Bangaki abentwana? Linganisa bese ugabala.



Ithemu 2

Ngubo yethemba
Bulunga abentwana
bethu bahale batutuhumele



Boke abentwana abasesithombeni batulapho? _____
Bangaki abentwana abalapho? _____

Linganisa	Bala	Madanisa
_____	_____	_____

Bungaki ubuso obuthabileko ☺ babessana? _____
Bungaki ubuso obuthabileko ☺ babentazana? _____

Nikela njel!
I-R5O
yengubo yi-1



Babhadela ini?

Ugwazi uthenga zi-2

Ubhadela R

UKrz Chakane uthenga zi-5

Ubhadela R

Isitolo sakal Thembu sithenga ama-20

Ubhadela R

Zi-5	nge-R5O = R25O	Zi-10	nge-R5O = R500
Zi-4	nge-R5O = R _____	Zi-15	nge-R5O = R _____
Zi-3	nge-R5O = R _____	Zi-6	nge-R5O = R _____
Zi-7	nge-R5O = R _____	Zi-12	nge-R5O = R _____
Zi-8	nge-R5O = R _____	Zi-9	nge-R5O = R _____



Kuzokuthatha isikhathi esingangani? Sebenzisa ikhalenda.

Itasi lakkagrejidi-3! Babuhelela imali yokuthenga iingubo ezi-4.

Babuhelela i-R5 ngelanga amalanga ama-5 ngeveke.

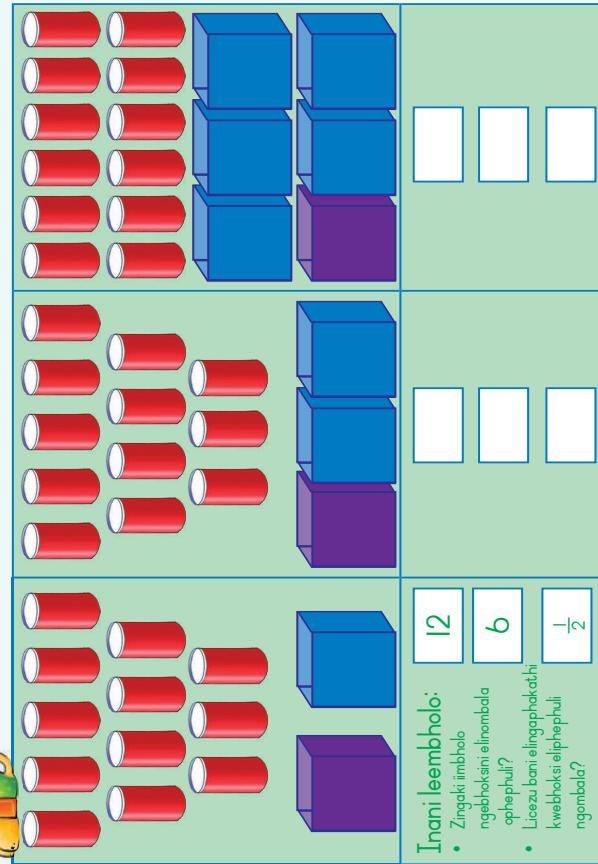
Bathogq iimveke ezinqaki ukuthi babuhelela imali yeengubo?

Teacher:
Sgn:
Date:

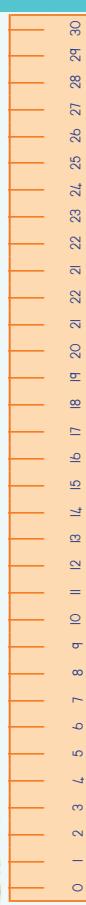
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

Amacezu: abohafu, kunye kokuthathu kanye nokukodwa kokwesithandathu

Yehlukanisa amakotikoti (amasilanda) ngokulinganako uwatuke ngemabloboksiní

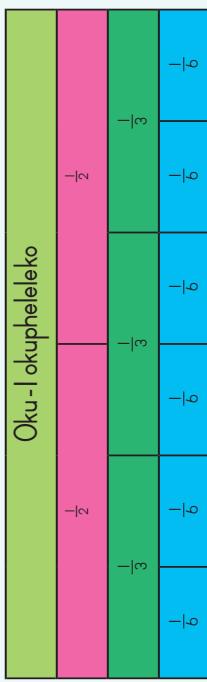


Tlong:



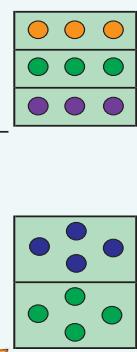
- Tjengisa ihafu erulení. Lokhu kulingana nama-cm _____.
- Tjengisa ingcenyé eyodwa yokusithathu yerula. Lokhu kulingana nama-cm _____.
- Tjengisa ingcenyé eyodwa yokusithandathu yerula. Lokhu kulingana nama-cm _____.

Qala umtletlana wamacezu. Qedeleta imitjhó.



- Kunamahafu ama-kokupheleleko okukodwa.
- Kunokukodwa kokwesithandathu oku-kokupheleleko okukodwa.
- Kunokukodwa kokwesithandathu oku-kahafu eyodwa.
- Kunokukodwa kokwesithandathu oku-kokukodwa kwestithathu.

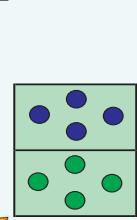
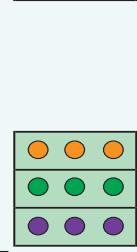
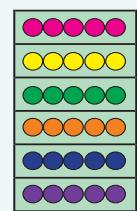
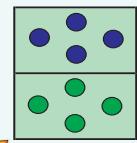
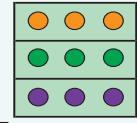
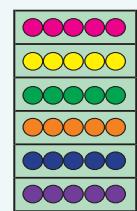
Qala iinthombe besse uphendula imbuza.



Ubale iijingi
ezingak?

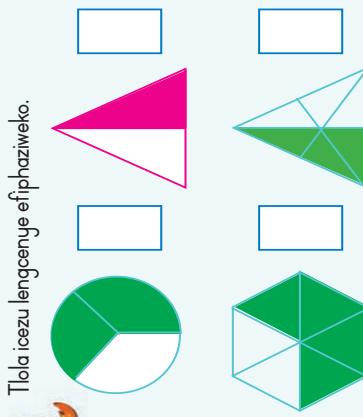
Yini- $\frac{1}{2}$ yeeqinqi?
Yini- $\frac{2}{3}$ yeeqinqi?
Yini- $\frac{3}{3}$ yeeqinqi?

Yini- $\frac{1}{6}$ yeeqinqi?
Yini- $\frac{2}{6}$ yeeqinqi?
Yini- $\frac{3}{6}$ yeeqinqi?
Yini- $\frac{4}{6}$ yeeqinqi?
Yini- $\frac{5}{6}$ yeeqinqi?



Ndlungjela ingcenyé skulu yeeceu.

- a. $\frac{1}{2}$ $\frac{1}{3}$
b. $\frac{1}{2}$ $\frac{1}{6}$
c. $\frac{1}{2}$ $\frac{2}{6}$



Tlola icezu lengcenyé ephaziweko.



Teacher:
Sgn:
Date:



Teacher:

Sign: _____
Date: _____

20

19

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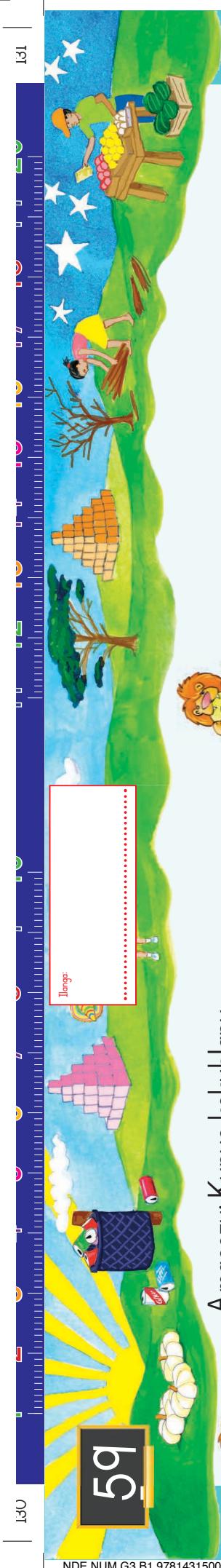
5

4

3

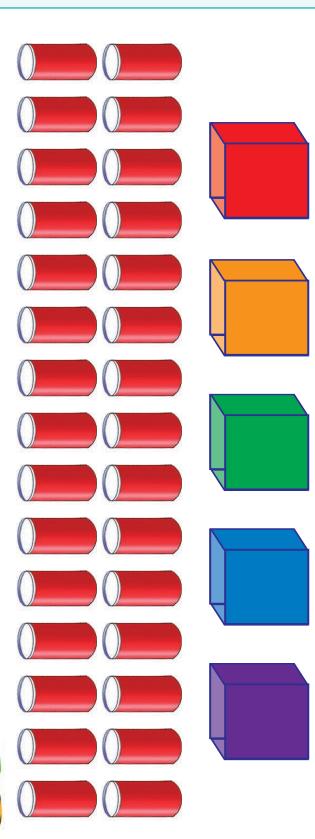
2

1



Amacezu: Kunye kokuhlanu

Yehukanisa ufake amakotikoti ingemabhoksin.



- Ngengcenjeni eyi- $\frac{1}{5}$ yebhoksi, kunamakotikoti asi- 6
- Ngengcenjeni eyi- $\frac{2}{5}$ yebhoksi, kunamakotikoti asi-
- Ngengcenjeni eyi- $\frac{3}{5}$ yebhoksi, kunamakotikoti asi-
- Ngengcenjeni eyi- $\frac{4}{5}$ yebhoksi, kunamakotikoti asi-
- Ngengcenjeni eyi- $\frac{5}{5}$ yebhoksi, kunamakotikoti asi-



Qala isithombe bese uphendula imibuzo.



Mangaki amatjihokaledi ngabhoksin?

Okukadwa kokuhlanu yetjihokaledi ilingana na-

Okubili kokuhlanu yetjihokaledi ilingana na-

Okuthathu kokuhlanu yetjihokaledi ilingana na-

Okune kokuhlanu yetjihokaledi ilingana na-

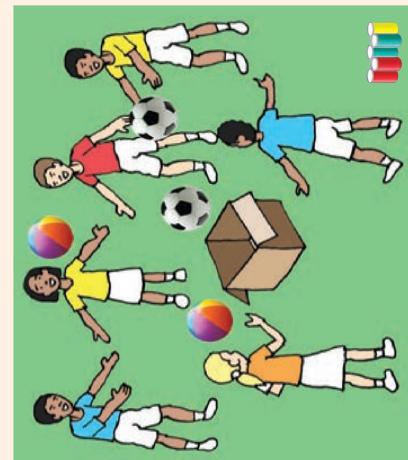
Okuhlanu kokuhlanu yetjihokaledi ilingana na-

Ngalanga ellidawa ngilla i- $\frac{1}{5}$ yemtjhokaled. Kusele amatjihokaledi angangani?

Ngalanga ellandelako ngilla i- $\frac{1}{5}$ yetjihokaled. Kusele itjhokaledi engangani?



Izinto ezima -3D



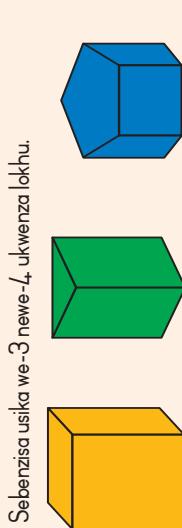
Bala amabholksi (amaphrizima)
Bala imbhoko (indulungo)
Bala amasilinda



Itthemu 2

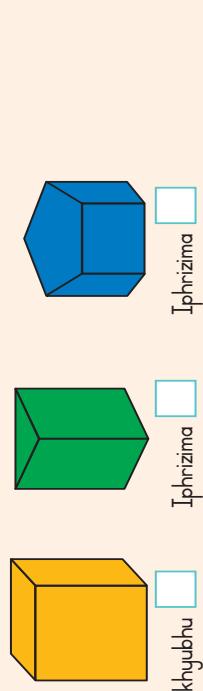


Lawa mabboksi



Sebenzisa usika we-3 newe-4 ukwenza lokhu.
Ingcencye enye nenyen yawo esipara yaziwa ngobuso. Namathisela ubuso
obubodwa obuhlekako ngakelinye nelinye ihlangothi lebhoksi.

Umathisele ebusweni obungdk?



Ingabe ubuso iphrizima busipara nanjana buygikileza?
Kwanjesi yenza isilinda ngosika -4
Ingabe ubuso besilinda busipara nanjana buygikileza

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



Sebenzisa izinto zakho ukwakha okulandeldko:

Hithulula kobana isilinda ikuyphi indawo usebenzisa amagama.

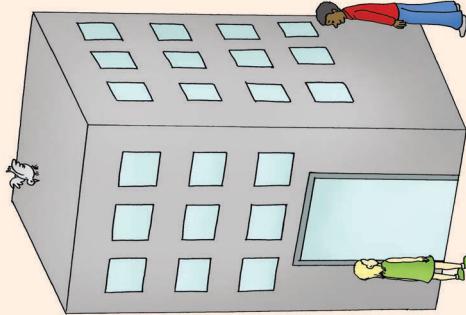
Ngaphewulu

Ngaphambilii

Ihlangothi ellidwa



Sebenzisa amagama angenzasi ukuqedelela imitjho.



Umntazana uqale _____ lomakhiwo.

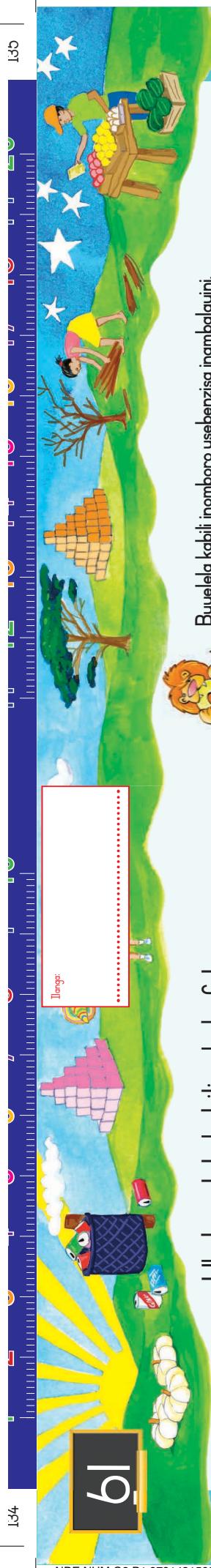
Indada iqale _____ lomakhiwo.

Inyoni ziqale _____ lomakhiwo.

ilingaphewulu

Ilingeqadi

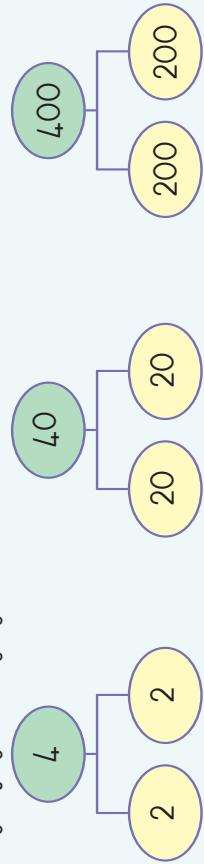




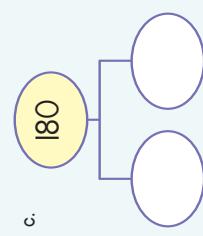
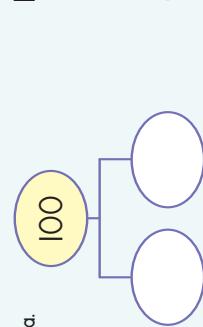
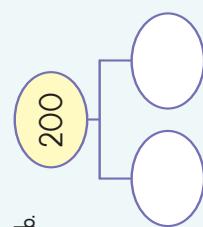
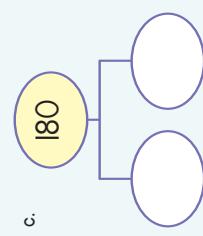
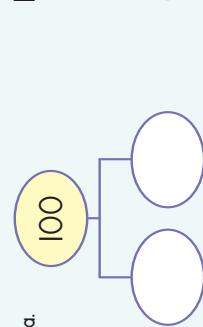
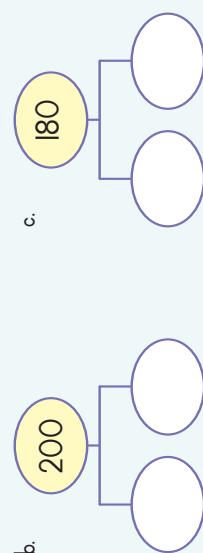
Ulkubuyelela kabili nokuhafula

Ingabe usakhumba u-2 yihafu yaka-4
20 yihafu yaka 4.0 u-4 kulokha nakubuyelwe u-2 kabili
200 yihafu yaka 400 u-400 kulokha nakubuyelwe u-200

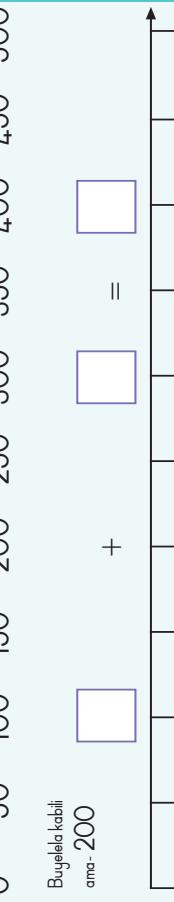
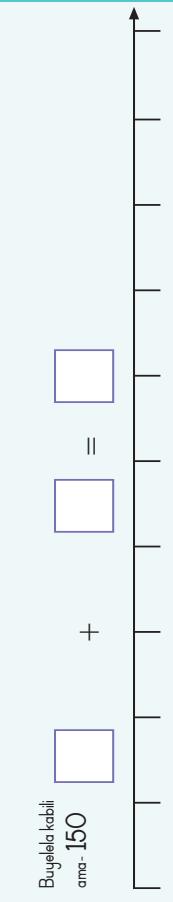
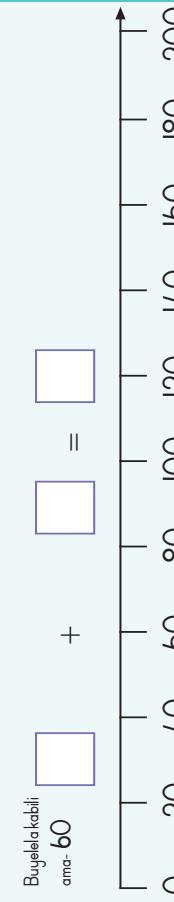
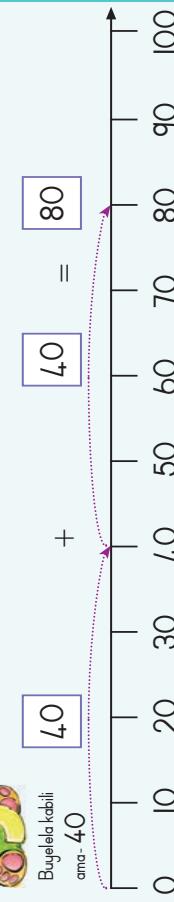
Singakutjengisa lokhu ngomgwado...



- a. 100
- b. 200
- c. 180
- d. 300
- e. 150
- f. 370



Bujelela kabili inomboro usebenzisa inambalayini.
Wenzelwe isibonelo. Isibonelo:



- | | |
|-----------------|-----|
| a. Hafula u-220 | 110 |
| b. Hafula u-180 | |
| c. Hafula u-260 | |
| d. Hafula u-60 | |
| e. Hafula u-320 | |

Teacher:
Sgn:
Date:



Okhunye ukubuyelela kabilii nokuhafula

Fumana okubuyelewe kabilii namkha abohafu

— 6 —

a. 
 b. 
 c. 
 d. 
 e. 
 f. 

Bulungela ibhayisigili

Upeter ubulungai-R25 ngeveke kobana at henge ibhayisigii. Kufanle abulunge iimvele ezingaki? Iimvele Ipendulo:

Zehlisiwe

Zoke izinto ziyathengiswa ngenani elijahfa.
Tlolaprepsi yokutjengisa naeqadi kwenye nenuye into.

a. Ingubo RIQO
Inani lokuthengisa _____

c. Imisamelo R5L4
Inani lokuthengisa _____

b. Amalageni RI54 _____
Inani lokuthengisa _____

d. Tintulo R220 _____
Inani lokuthengisa _____

Maranda amangaki?

U'Musa ufuna irhembe. Uhemali ejihafu kwaphela.

R|35

Amanyathelo kaPeter abiza ngokubuyelelwe kabili ukudlula lokhu.

R78,50

◎ 中国古典文学名著全译本

Rq-

Landelia isiboneko. Zalisa iñomboroz ezitzhayelako.

R450
Yehlii

Ngehafu lenani: gade
iji-RqOO



Zoke izinto ziyathengiswa ngenani elijahfa.
Tlolaprepsi yokutjengisa naeqadi kwenye nenuye into.

b. Amalageni RI54 _____
Inani lokuthengisa _____

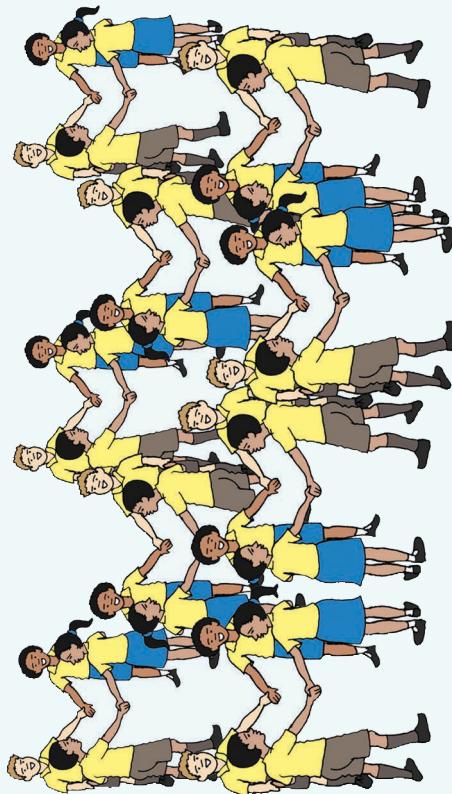
d. Tintulo R220 _____
Inani lokuthengisa _____

2 3 4 5 6 7 8 9 10

Ukuhlela ngokweenqhem nokuhlanganisa

Hlela abentwana ngokweenqhem

UKz. Ndaba ufunu ukwehlukanisa itlasi ingbulkhulu obulingandako beemqhem ulungiselala imidalo yangaphandle. Kokuthoma ukuhlela abentwana ngeenqhem zaangaba-4.



63

Ithemu 2

- Bala abentwana
- Wenza iighema ezinqaki?
- Tjengisa zoke ezinye iindela ukKz. Ndaba angazisibenzisa ukuhlela abentwana ngeenqhem?

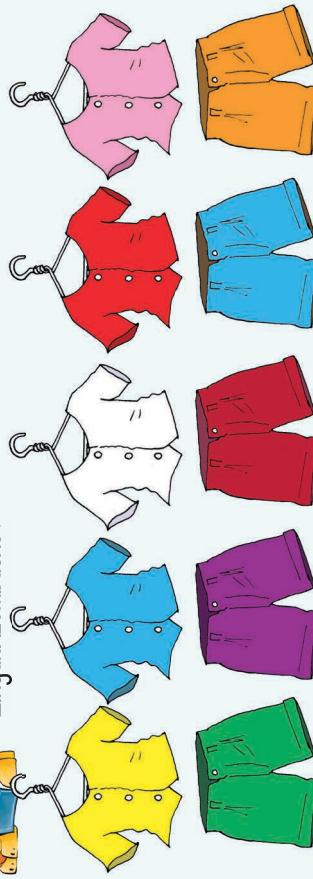
Tjhega Madanisa.
Lungisa.

Funisea: Kungaba rjani nakhbe uPhindi unemintye imbalala es-6 ehlukileko yeemrhembhe namabhrugu amafijjhani?

Angalkjhona ukwenza izembatho ezinqaki?

Tjhega Madanisa.
Lungisa.

Zingaki izembatho?



Uphindu uneenrhembhe ez-5 ezinombala begodu namabhrugu amafijjhani anombalaa ama-5. Zizembatho ezinqaki ezhlikileko akjhona ukuzenza asebeniza ihlanganisela ehlukileko yembala?

Isibonele: Irhembhe ehlaza kweisibhakabha/ibhrugu ellifijjhani elihaza kweisibhakabha. Irhembhe ehlaza kweisibhakabha/amabhrugu amafijjhani orontji.

Tola iledere lokuthoma lombala ngamunye. Tjengisa zoke ezinye izembatho ezinqenzeka.



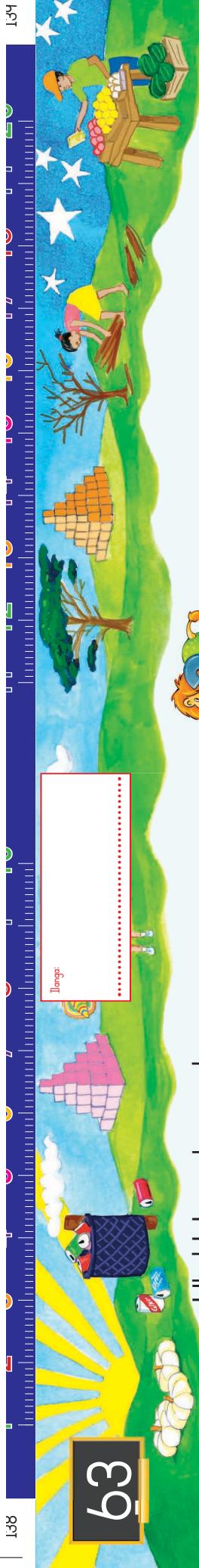
Teacher:
Sigr:
Date:

20

11 12 13 14 15 16 17 18 19

10

2 3 4 5 6 7





Ukuzithokozisa ngezibalo

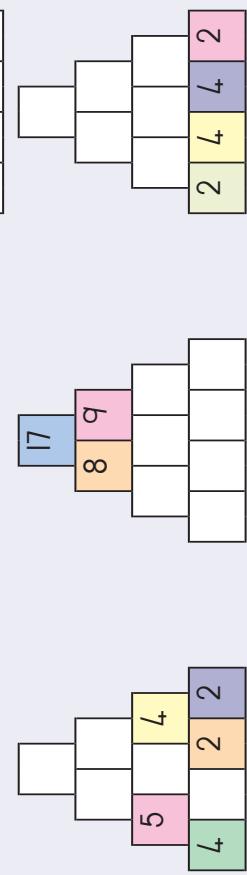
Qala umthetho

Sebenzisa umthetho ukufunyana iinomboro ezithayelako.

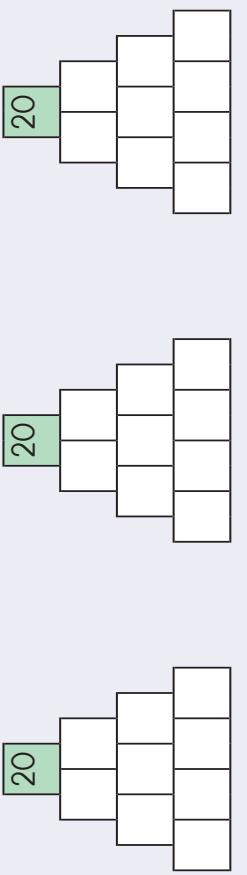
Itthemu 2

b4

Kwanje yenza lokhu.



Yakhafifike ema-20 ngeendela ezahlukeneko.



Iselele

Akhé ucabange

Sebenzisa iinomboro-1, 2, 3, 4 ndaku-5.

Inomboro ezi-3 erejini ngayinye kufanele zihlangane zenze-i-10.

Umthetho: Sebenzisa inomboro eydwa kanye kwaphela.

Ilangas:

Ilangas:

Fumanari iinomboro

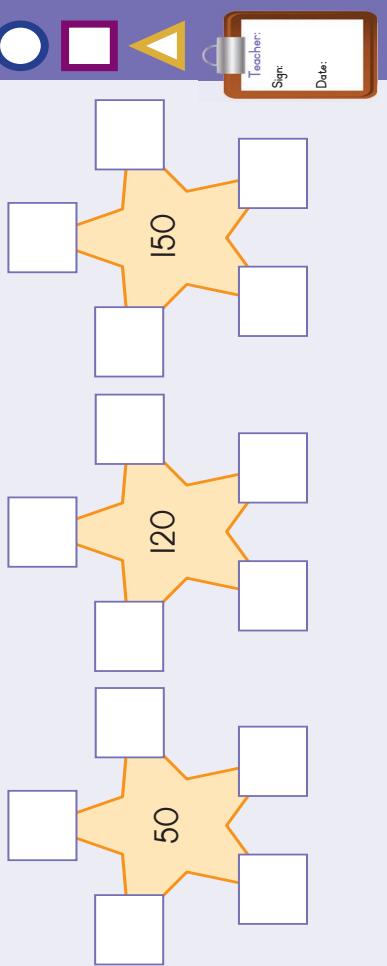
a. Umthetho: Iinomboro erejini ngalindye kufanele zihlanganiswe ukufika e-16.

2	5	3	6
			2

b. Umthetho: Iinomboro ezi-3, eziundla emareyini naziya phasi ngamakholomu, zihlanganiswe ihthihali efandko.

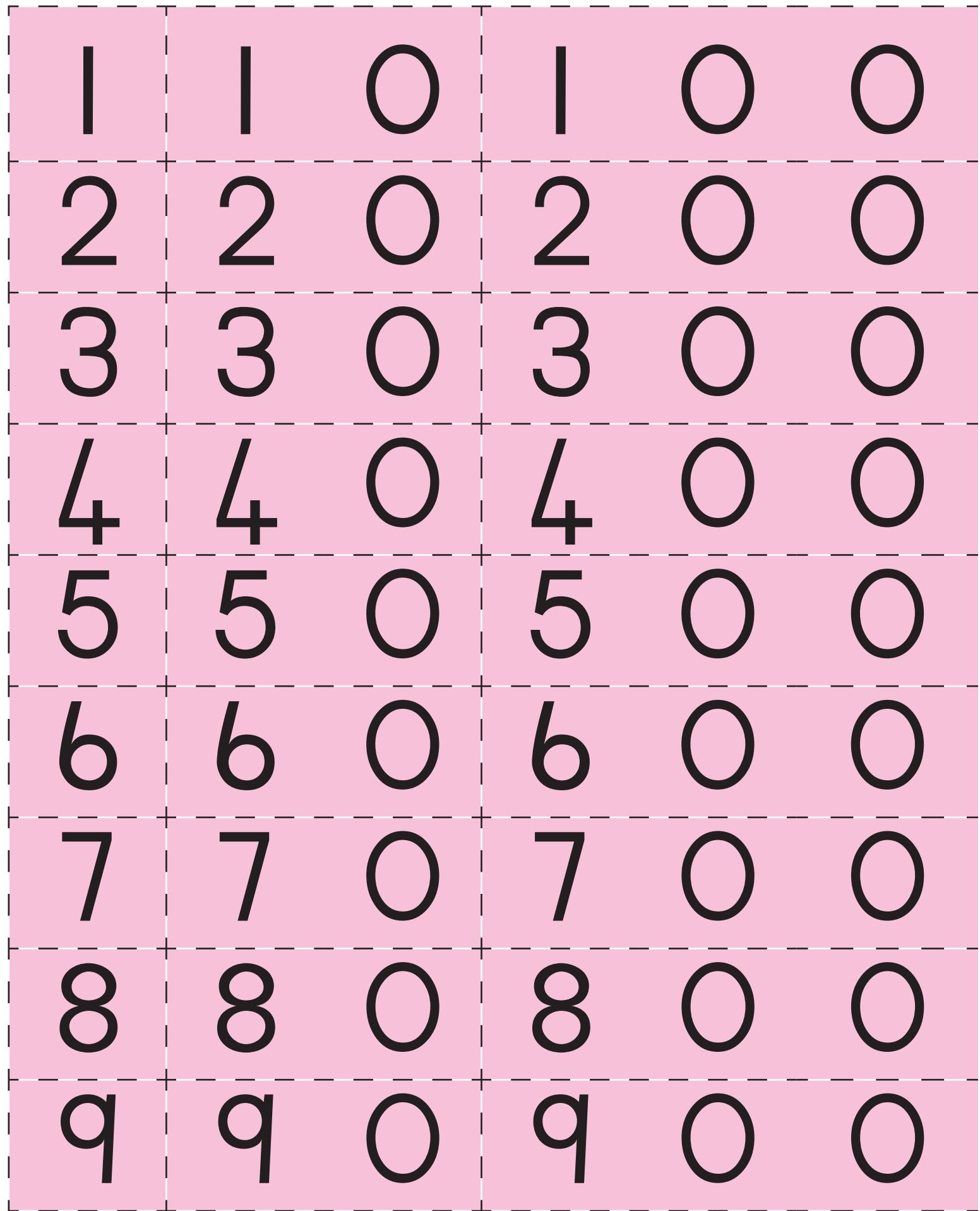
2	7	6	
q		1	
	3	8	
			10

c. Umthetho: Tlolani eziyue nezinye iinomboro ezi-5 ezihlanganiseka ukufika enomborweni ephakathi ngaphakathi kwekwewezi.



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | q | 10

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | q | 20



I O O

I O I

2 O O 2 O 2

3 O O 3 O 3

4 O O 4 O 4

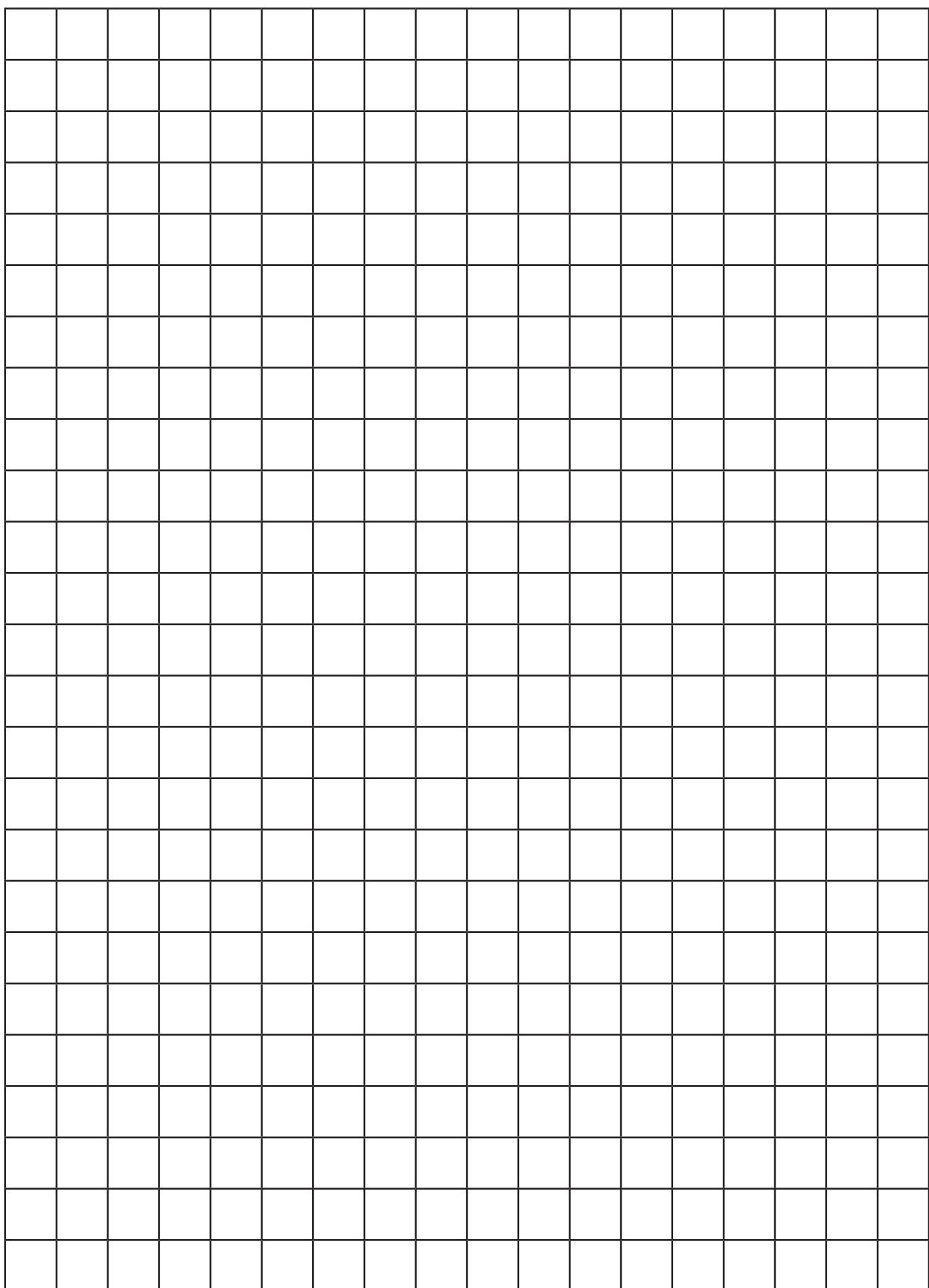
5 O O 5 O 5

6 O O 6 O 6

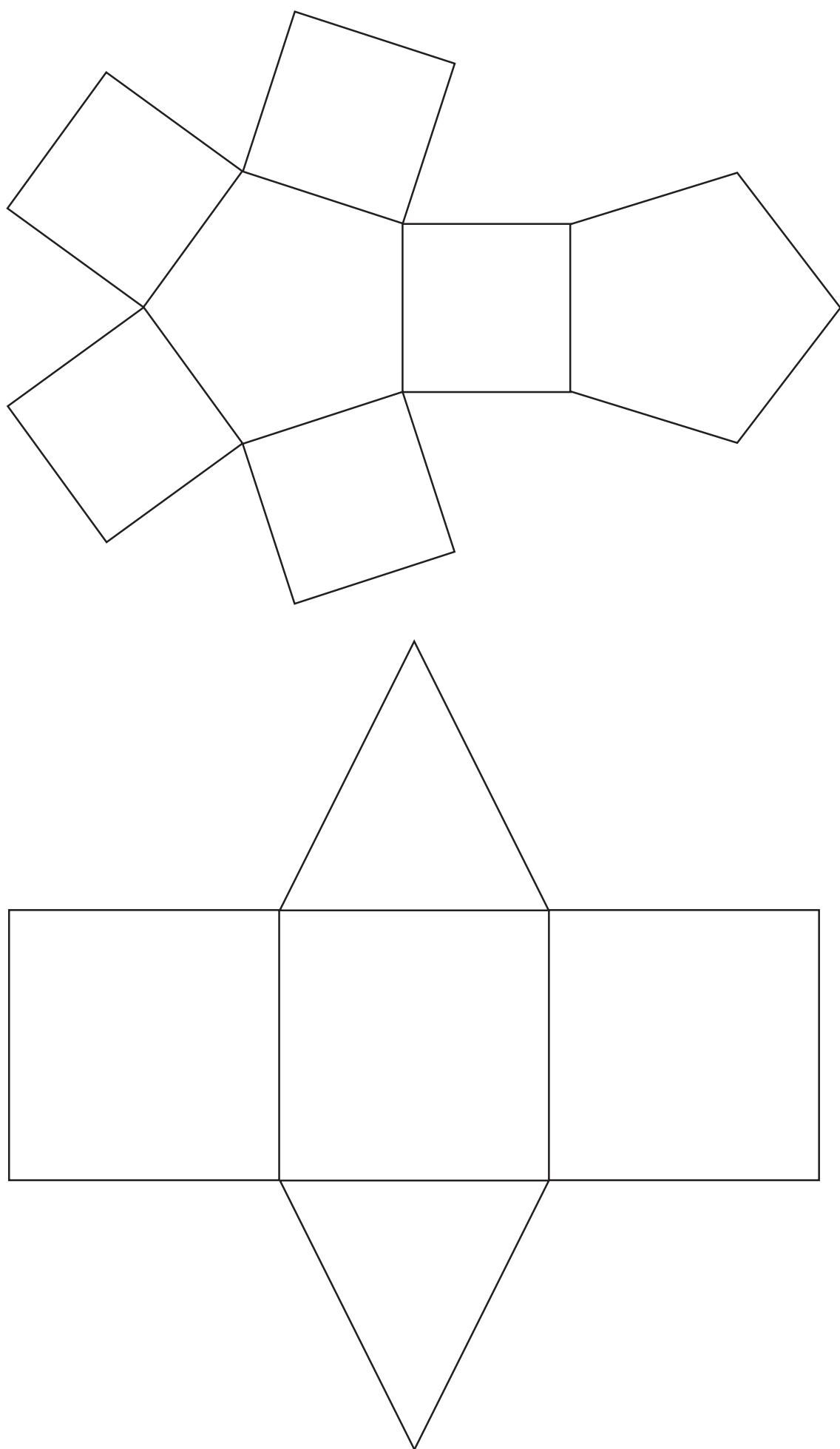
7 O O 7 O 7

8 O O 8 O 8

q O O q O q



Cut-out 3



Cut-out 4

