



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

IIMVAVANYO ZONYAKA NONYAKA KUZWELONKE

IBANGA 1

IMATHEMATIKA-ISIXHOSA

ULUHLU 3: UMZEKELISO 2012

Isikhokelo sokusebenzisa imizekelo ka-ANA

1. Umbono jikelele

Uvavanyo lonyaka nonyaka (ANA) luvavanyo oludibeneyo lolwazi nezakhono ezifanele ukupuhhliswa, kubafundi bebanga lo-l ukuya kwele-6 kunye nele-9. Ukuncedisana novavanyo oluqhutywa esikolweni nokuqinisekisa ukuba abafundi bazithemba ngokwaneleyo ukuze bathathe inxaxheba ngempumelelo kwiiimviwo zangaphandle, uluhlu lootitshala kunye neencutshe kwizifundo bavelise iimvavanyo eziyimizekelo ezinokusetyenziswa ngoottishala kwizifundo zoLwimi Lwasekhaya neMathematika. Unikwe imibuzo yemizekelo yemvavanyo ethatyathwe kumsebenzi wesikolo wonyaka wekharityhulam ukusuka kwikota yokuqala, eyesibini neyesithathu, kunye nesiboniso esipheleleyo sovavanyo (ANA) sebanga ngalinye. Imizekelo yovavanyo equka nesiboniso esipheleleyo soviwo zongeza kuavavanyo oluqhubekayo esikolweni olwenziwa qho kubafundi nekufuneka lungayekwa.

2. Unxulumano namanye amacebiso okufunda nokufundisa

Ngenxa yokubaluleka kokudibanisa eyindlela yokufundisa, eminye imibuzo ekwimizekelo yeemvavanyo inxulunyaniswe neeNcwadi Zomsebenzi ngokwamabanga. Imizekelo yeemvavanyo ilinganiswe neemfuno zekharityhulam, kusetyenziswe amaxwebhu ekharithyulam i-National Curriculum Statement Grades R-12 (NCS) ne-Curriculum and Assessment Policy Statements (CAPS) kumabanga ngamabanga, kusetyenziswe nendlela yokuhlola esemthethweni (National Protocol for Assessment). La maxwebhu ewonke kunye nalawo isikolo siwanika utitshala ukuze enze amacebiso angawo okunceda utitshala xa elungiselela izifundo kwakunye naxa esenza uvavanyo olusesikweni.

3. Unxulumaniso nezinye izixhobo zokufunda nokufundisa

Ukuze kubekho unxulumano olufanelekileyo, eminye imizekelo yeziatshulwa nemibuzo idityaniswe kwiincwadi zokusebenzela zamabanga ngamabanga ezingqale kumgangatho wabafundi. Le mizekelo ilungelelanisiwe ukuze iqwalasele iimfuneko zeNkczelo yeKharithyulam yeSizwe yamabanga R ukuya ku 12 (NCS), iinjongo zekharityhulam, iNkczelo yePolisi yeKharithyulam enxulmene namabanga abafundi kunye nendlela yokuhlola esemthethweni. Yonke le miqulu kwakunye neminye imiqulu enokufumaneka esikolweni izizixhobo ezingundoqo ezinokusetyenziswa ukuncedisa ootitshala njengoko bequlunqa izifundo belawula nohlolo olungundoqo (uhlolo olukhulisayo).

4. Isetyenziswa njani imizekelo yovavanyo

Nangona imizekelo yovavanyo yebanga ngalinye nesifundo ngasinye yensiwe yaza yadityaniswa, utitshala akanyanzelekanga ukuba abafundi abaphendulise ngexesha elinye. Utitshala makakhetha umzekelo onombuzo onxulmene nesifundo asilungiseleleyo. Imibuzo ekhethwe kumzekelo vavanyo okanye iqela lemibuzo enokuphenduleka ngexesha elinye ingasetyenziswa ngokuye kukhula ukufunda nokufundisa ngolu hlob:

4.1 Ekuqaleni kwesifundo, njengovavanyo lokuqonda nokwahlula izinto abafundi abakwazi ukuzenza/abazaziyo nezo bangakwazi ukuzenza/bangazaziyo. Ukuqonda lo mahluko kukhokhelela ekubeni abafundi bacoselelwe ukufundiswa nokuze kwakhiwe izifundo ezelungele ukulungisa ezo ngxaki banazo baze baphucule ukuqonda. Olu vavanyo lokuqonda lungenziwa umsebenzi wasekhaya ukonga ixesha.

- 4.2 Kwisifundo phakathi, uvavanyo olucwangcisiweyo lusetyenziswa ukuvavanya ukuba ulwazi nezakhono zabafundi ziyaphuhla na. Njengoko isifundo siqhuba lukwasetyenziswa ukuvavanya nokuqinisekisa ukuba akukho mfundi ushiyekayo kwisifundo.
- 4.3 Ukugqibezela isifundo okanye iqela lezfundo uvavanyo oludityanisiweyo luyenziwa ukuvavanya ukuba abafundi bayaqonda kwaye bayakwazi ukusebenzisa ulwazi nezakhono abazifumene kwizifundo. Inkcaza yokuba abafundi baqhube njani mabayinikwe ngoko nangoko, ngelo xesha utitshala wenza isigqibo ngeendawo ezifuna ukuphindwa kwisifundo okanye kwizifundo ukuncedisa ulwazi okanye izakhono ezingaphuhlanga.
- 4.4 Kuwo onke la manqanaba makusetyenziswe iindlela ngeendlela zokubuza, umz. iidlela yokuphendula ngokukhetha kwiimpendulo azinikiweyo, imibuzo efuna impendulo yakhe, imibuzo efuna impendulo emfutshane, njalo-njalo.

Nangona uvavanyo lokufumana ukuqonda novavanyo lokwakha ulwazi lusenokuba lufutshane ngokwemibuzo, uvavanyo oludityanisiweyo lunokuquka imibuzo emininzi kuxhomekeka kumsebenzi osele wenziwe. Okubalulekileyo kukuqinisekisa ukuba abafundi baqhelaniswa nendlela yokuphendula uvavanyo olupheleleyo olufana novavanyo lukazwelonke lonyaka nonyaka (ANA).

5. Immemorandum okanye iindlela zokuphendula

Umzekelo wendlela yokuphendula okanye iimpendulo ezilindelekileyo zilungiselelwé kumzekelo wovavanyo. Ootitshala mabakhumbule ukuba immemorandum ayiniki mpendulo igqibeleyo, Immemorandum inika nje kuphela iimpendulo ezilindelekileyo, ngoko utitshala angamnika umfundí amanqaku ngeempendulo ezahlukenyeyo, ezivumelekileyo ezinikwe ngabafundi.

6. Ukugutuungelwa kwekharityhulam

Kunyanzelekile ukuba ikharityhulam igutuungelwe yonke kwibanga ngalinye. Imizekelo yovavanyo yebanga ngalinye ayimeli ikharityhulam, ikhupha nje iisampula zovavanyo lolwazi nezakhono ezibalulekileyo kwaye zejomsebenzi wekota yokuqala ukuya kweyesithathu yonyaka Isantya sokusebenza somsebenzi ekufuneka wenziwe sinikezelwe kumaxwebhu ekharityhulam (CAPS DOCUMENTS).

7. Ukuphetha

Injongo yeSebe leMfundu kukuphucula nokwakha ezona zisekelo zibalulekileyo, ukufunda nokubala kwabafundi. Uvavanyo lonyaka nonyaka sesinye sezixhobo iSebe leMfundu esisebenzisa ukuqaphela ukuba umgangatho wabafundi uyenyuka, uhleli ndawonye okanye uehla. Izithili nezilkolo kulindeleke ukuba zincedise ootitshala kwaye zidlulise amacebo aluncedo ukuphucula ukufunda nokufundisa ezikolweni. Ngokusebenzisa imizekelo yokuvavanya njengelinje icebiso lokufundisa, ootitshala baza kunceda abafundi baqhelane neendlela nobuchule bokuvavanya. Ukusetyenziswa kwale mizekelo kuya kunceda abafundi bafumane ulwazi olufanelekileyo baze baphuhlise nezakhono ezinxulumene nokufunda ukuze baphucule kuvavanyo lukazwelonke olulandelayo.

AMANANI, IOPHARESHINI NOLWALAMANO.

- 1. Bala imifanekiso yeentyatyambo uze ufakele inani elifanelekileyo leentyatyambo.**



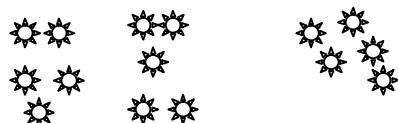
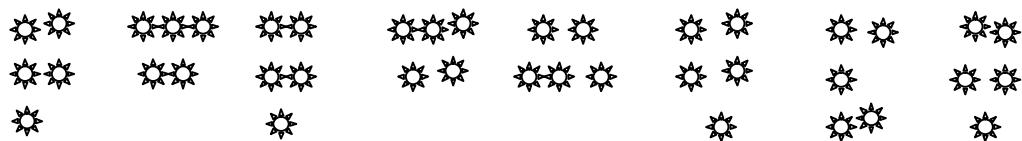
- 2. Bala iinkwenkwezi uze ubhale inani lazo.**



- 3. Bala inani leziqhuma zeebaloni uze ubhale ukuba zingaphi ezi ziqhuma.**



4. Mangaphi amaqela ezhlanu eentyatyambo abonisiweyo emfanekisweni?



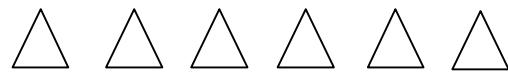
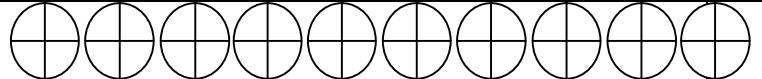
5. Mangaphi amehlo akobu buso busi- 8?



10. Zoba umgca ukutshatisa igama lenani kunye nenani elichanekileyo.

- a. Zintlanu 10
- b. Zilishumi 2
- c. Zilithoba 5
- d. Zimbini 9

11. Jonga umfanekiso. Zoba isangqa kwinani elihambelana nezinto ezikwiqela ngalinye.

a.		4 6 8 10
b.		4 6 8 10
c.		4 6 8 10
d.		4 6 8 10

12. Zoba umgca ukudibanisa amanani afanayo.

19

55

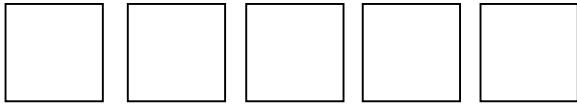
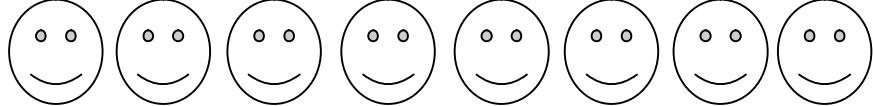
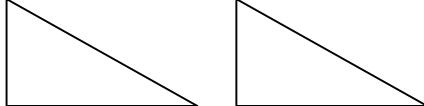
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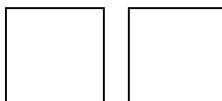
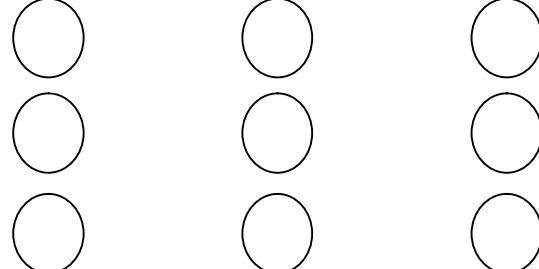
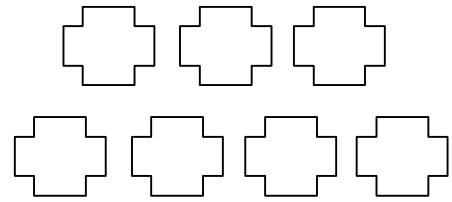
73

19

13. Kwibhokisi nganye bhala uphawu lwenani elihambelana nezinto ezibiyelweyo .

a.		
b.		
c.		
d.		

14. Gqibezela le theyibhile.

	Izinto	Inani	Igama lenani
a.		2	
b.			Zilithoba
c.			Zintathu
d.		7	

15. **Bhala amanani magama ala manani.**

a.	1	
b.	4	
c.	8	
d.	10	
e.	5	

16. **Nxulumanisa inani kunye negama lalo.**

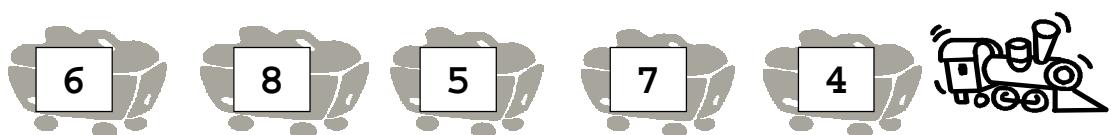
7	Zimbini
1	Zilithoba
3	Zisixhenxe
9	Inye
2	Zintathu

17. Landelanisa la manani alandelayo ukusuka kwelincinci ukuya kwelikhulu.

11 ; 14 ; 10 ; 13 ; 12

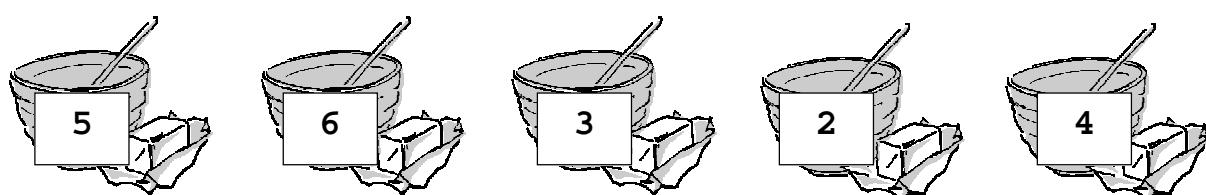
_____ ; _____ ; _____ ; _____ ; _____

18. Bhala amanani akuloliwe ukusuka kwelikhulu ukuya kwelincinci.



_____ ; _____ ; _____ ; _____ ; _____

19. Beka amanani abhalwe ezityeni ukusuka kwelincinci ukuya kwelikhulu.



_____ ; _____ ; _____ ; _____ ; _____

20. Jonga imifanekiso uze ufakele u "unawona maninzi", "unawona ambalwa" okanye "maninzi" ukugqibezela isivakalisi.

A

B

C

D

0000
000
000

000
000
000

00
0000
000

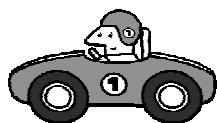
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00

a. U A _____ amachaphaza.

b. U B _____ amachaphaza nj e ngo C.

U D _____ amachaphaza

21. Jonga imifanekiso uze uphendule imibuzo.



Imoto



indoda



inkomo

a. I _____ yeyokuqala.

b. I _____ yeyokugqibela.

c. I _____ iphakathi.

22. Jonga imifanekiso yezilwanyana uze ufakele igama ukugqibezela isivakalisi ngasinye.



wokuqala



wesibini



wesithathu wesine



wesine



wesihlanu

a. I



ngumfanekiso woku _____.

b. I



ngumfanekiso wesi_____.

23. Naba oonobumba abasi 7 .

s

m

a

b

e

w

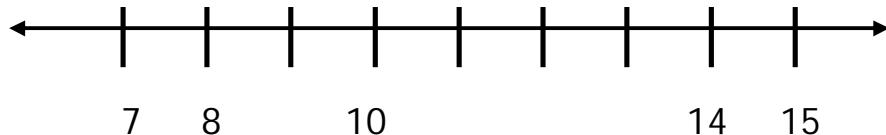
r

a. Unobumba okwindawo yesithathu ngu _____.

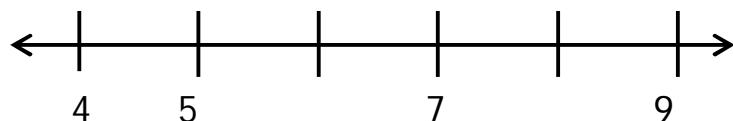
b. Unobumba ophambi ko e ngu _____.

c. Unobumba osemva ko w ngu _____.

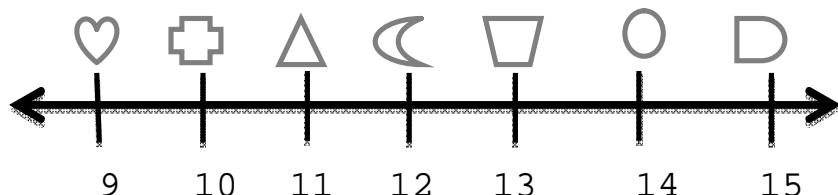
24. **Bhala amanani ashiyiweyo kwindawo efanelekileyo kumgca manani.**



25. **Fakela amanani ashiyiweyo kumgca manani.**



26. **Jonga iimilo kumgca manani uze uzobe imilo nganye kwindawo efanelekileyo.**



	Indawo	Imilo
a.	Indawo ye 10	
b.	Indawo ye 11	
c.	Indawo ye 13	
d.	Indawo ye 15	

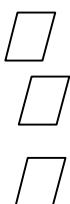
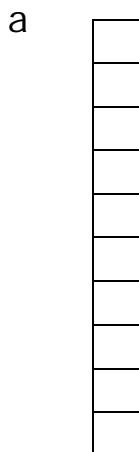
IXABISO LENDAWO

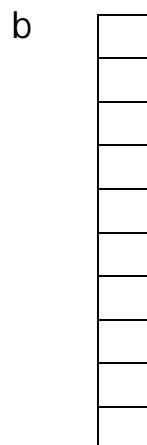
1. Gqibezela isivakalisi samanani.

a. $12 = \text{ishumi eli } 1 + \underline{\hspace{2cm}} \text{ imivo}$

b. $15 = \text{Ishumi eli } 1 + \underline{\hspace{2cm}} \text{ imivo.}$

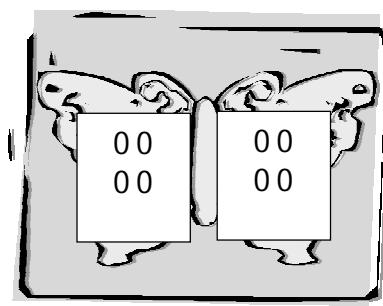
2. Bhala ukuba leliphi inani elibonisiweyo kwinto nganye kwezi zilandelayo.



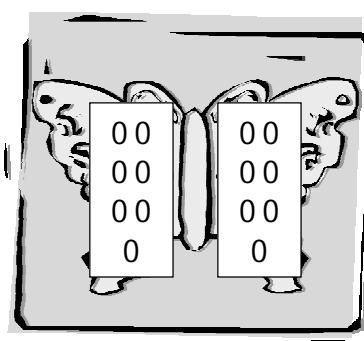


Ukusebenza ngamanani

1. Bala iimilo ezikula maphiko eentethe uze ufakele impendulo.



phinda u 4 = _____



Phinda u 7 = _____

2. Fakela impendulo nganye.

a. Phinda	5	=	
b. Phinda	6	=	
c. Phinda	2	=	

3. Fakela igama lenani. Eyokuqala sele uyenzelwe.

- a. Uzintlanu xa ephindiwe ngu zilishumi.
- b. U inye xa ephindiwe ngu _____.
- c. Uzintandathu xa ephindiwe ngu _____.
- d. Uzintathu xa ephindiwe ngu _____.

4. Sebenzisa le mifanekiso ukubhala ihafu yamanani.

0	0
0	0
0	0
0	0

a. Ihafu ka 8 = _____

0	0	0
0	0	0
0	0	0
0	0	0

b. Ihafu ka 12 = _____

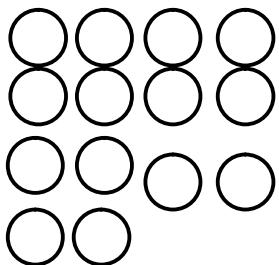
0	0
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c. Ihafu ka 2 = _____

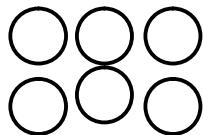
5. Nqumla ihafu yesangqa uze ubhale impendulo. Eyokuqala uyenzelwe.



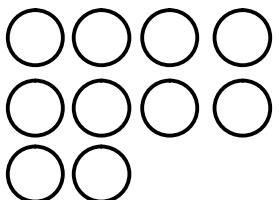
a. Ihafu ka $2 = 1$



b. Ihafu ka $14 = \underline{\hspace{2cm}}$

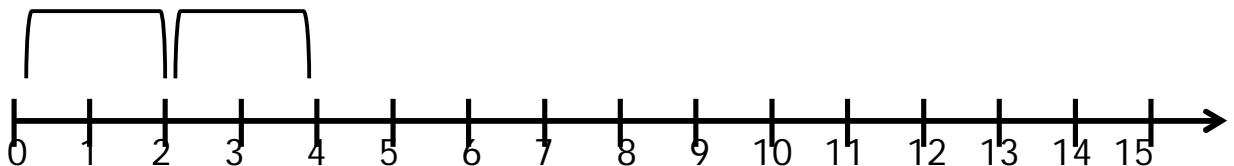


c. Ihafu ka $6 = \underline{\hspace{2cm}}$



d. Ihafu ka $10 = \underline{\hspace{2cm}}$

6. Bala ngezibini ukusuka ku 0 ukuya kwi 14. Bonisa ngokux huma kumgca manani. Ezokuqala ezimbini sele uzenzelwe.



Phendula imibuzo ukusuka ku-7 ukuya ku -20 ebandakanya ukudibanisa , ukuthabatha, ukuphindaphinda nokudibanisa , ukwahlula ngamaqela.

7.

a. $4 + 3 = \underline{\hspace{2cm}}$

b. $5 + 6 = \underline{\hspace{2cm}}$

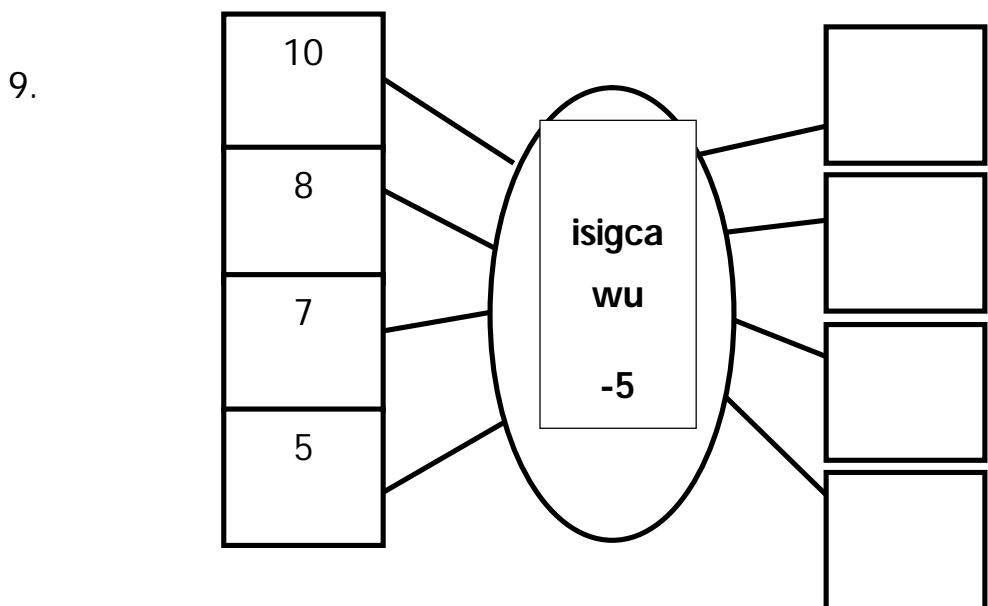
c. $2 + 4 = \underline{\hspace{2cm}}$

8.

a. $7 + 10 = \underline{\hspace{2cm}}$

b. $8 + 4 = \underline{\hspace{2cm}}$

c. $9 + 6 = \underline{\hspace{2cm}}$



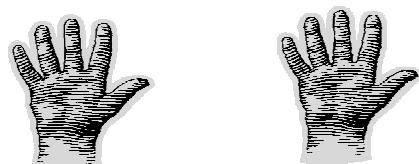
10. Bala iminwe uze ufakele iimpendulo.

a.



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

b.



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

11.

a. $4 + 1 + 2 =$ _____

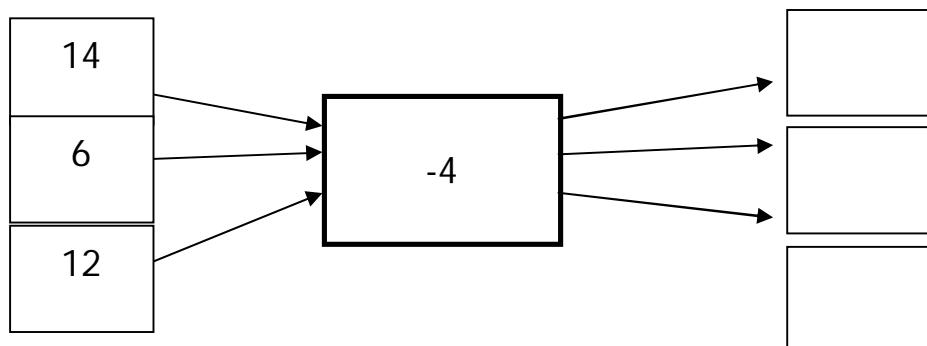
b. $2 + 0 + 9 =$ _____

c. $1 + 5 + 6 =$ _____

12.

a. 7 - 2 =
b. 13 - 3 =
c. 8 - 8 =
d. 15 - 1 =

13.



14.

a. $10 - \underline{\quad} = 7$

b. $8 - 3 = \underline{\quad}$

c. $\underline{\quad} - 2 = 13$

UPaul utya iibhisikithi ezi -3 kusasa, iibhisikithi ezi -3 emini neebhisikithi ezi - 3 ukuphuma kwesikolo. Zingaphi iibhisikithi azityileyo zizonke?

15. **Gqibeza okulandelayo.**

Umzekelo:

a. $OO + OO + OO = OOOOO$
 $2 + 2 + 2 = 6$

b. $OOO + OOO + OOO = \underline{\quad}$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

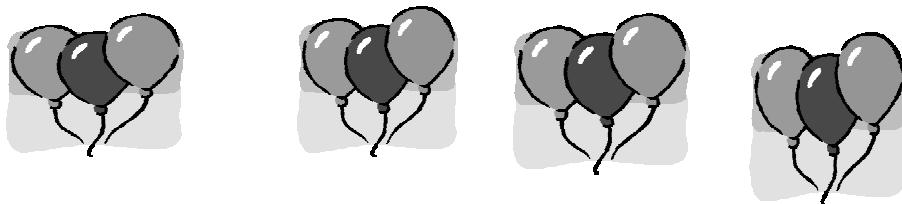
c. $OOOO + OOOO + OOOO = \underline{\quad}$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

16. Zoba amaqela amabini alinganayo eemilo kwezi
milo zilandelayo.

a. 000000	ooo	
b. 0000		
c. 0000 0000		
d. 00000 00000		

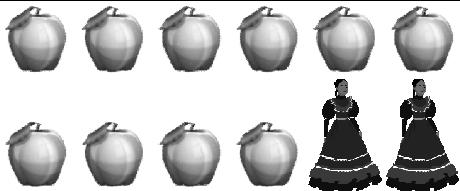
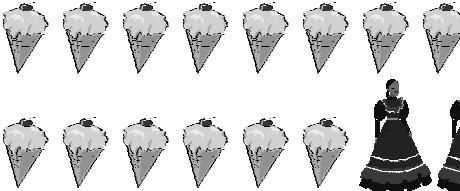
17. Mangaphi amaqela oonontathu ebhaloni kule mifanekiso?



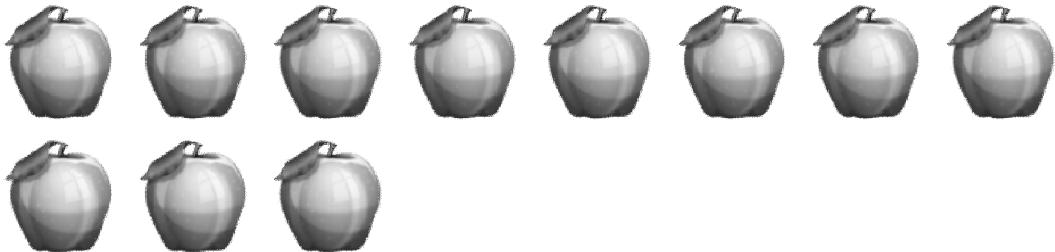
_____ amaqela e- 3.

**18. Jonga umfanekiso uze wabe ngokulinganayo
ukutya phakathi kwenani lamantombazana.**

Bhala ukuba inye iza kufumana kangakanani.

	a. Inye ifumana ii apile ezi ____.
	b. Inyeifumana iilekese ezi ____.
	c. Inye ifumana iiaysikhrim ezi _____
	d. Inye ifumana amapere ama _____.

19. Yahlulela abantwana aba 2 ngokulinganayo ii apile ezi- 11.



a. Umntwana omnye ufumana ii- apile ezingaphi?

_____ .

b. Zingaphi ii - apile ezishiyekileyo? _____ .

IMALI

1. Gqibezela okulandelayo.

	Ndithenge		Ndichithe	
a.		10c		5c
b.		R5		R2
c.		30c		50c
d.		R10		R6

UPeggy uthenge incwadi nge R3 neekhrayoni nge R9. Ufumene itshintshi yamalini xa ebhatele nge R20?

2. Bhala yimalini iyonke imali.

a. $R 5 + R 4 = \underline{\hspace{2cm}}$

b. $20c + 15c = \underline{\hspace{2cm}}$

3. Zingaphi iingqekembe ze 5c ezenza i 20c?



_____ iingqekembe.

4. Inkukhu inye ixabisa i R4. Xa zi -4 ezi nkukhu zakuxabisa malini?

IIPHATHENI, IMISEBENZI NE ALJIBRA.

1. Zoba iimilo okanye izinto ezi 2 ezilandelayo kumqolo ngamnye.

a. $\text{IIII} = \text{IIII}$ _____

b. _____

c. _____

Isithuba nesimo

1. Jonga imifanekiso engezantsi. Biyela izinto eziqengqekekayo. Yenza u "X" kwizinto ezitshebelezayo.

a. Iglesi



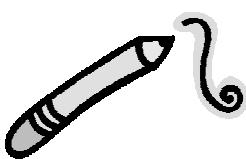
b. Iorenji



c. Incwadi



d. Ipensile



2. Phendula imibuzo usebenzise la magama u "ewe" okanye u "hayi"

a. Ingaqengqeleva



? _____

b. Ingaqengqeleva



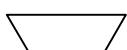
? _____

c. Ingatshebeleza



? _____

d. Ingatshebeleza



? _____

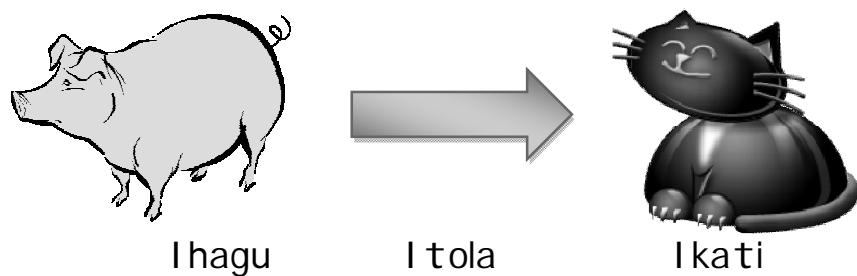
3. Sebenzisa la magama "iphambi" okanye "emva" ukugqibezela isivakalisi ngasinye.



a. Ilanga li _____ kwendlu.

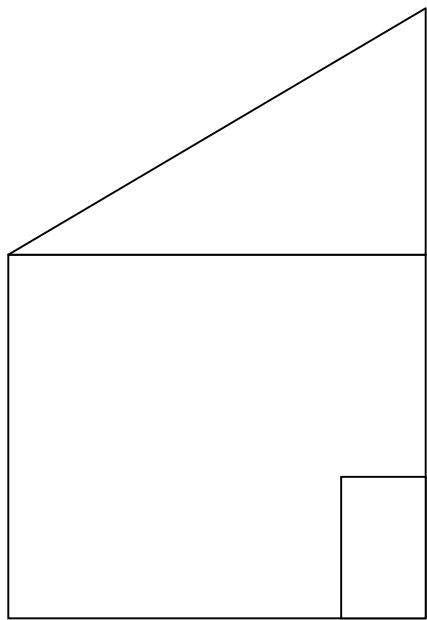
b. Imoto i _____ kwendlu.

4. Sesiphi isilwanyana esisekunene kwetola?



I _____ sekunene kwetola.

5. Zoba elinye icala ukwenza isimetri.

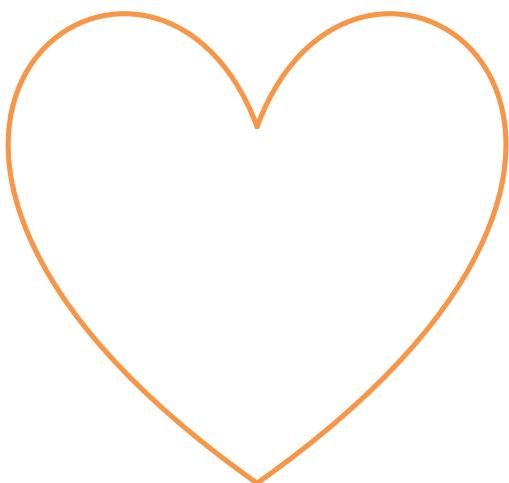


6. Ingaba lo mfanekiso ubonisa isimetri? **Biyela igama elichanekileyo.**



ewe hayi

7. Zoba umgca wesimetri kulo mfanekiso.



UMLINGANISELO

1. Jonga ikhalenda uze uphendule imibuzo elandelayo.

Juni 2011

Cawe	Mvulo	Lwesibini	Lwesithathu	Lwesine	Lwesi hlanu	Mgqibelo
				1		2
5	6	7		8	9	10
12	13	14		15	16	17
19	20	21		22	23	24
26	27	28		29		30

- a. Bekukho iintsuku ezishushu ezili _____ ngo
Juni wama 2011.
- b. Kune iintsuku ezili _____ ngo Juni wama
2011.

2. Landeelanisa izinto ezisemfanekisweni ukusuka kwende ukuya kwemfutshane ngokubhala u 1, 2, 3, 4 phantsi kwazo.



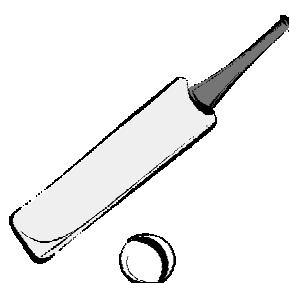
ugqaphu



iselula

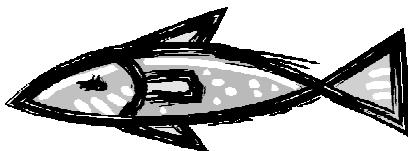
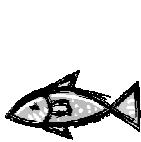


izihlangu ibhethi yeqakamba



a. _____ b. _____ c. _____ d. _____

3. Biyela umfanekiso obonisa intlanzi ende.



4. Krwelela impendulo echanekileyo. Yeyiphi ende?

a. Irula okanye umcinga wematshisi?

b. Ikhrayoni okanye incwadi yakho?

UKUSEBENZA NGOLWAZI

1. 1 1 1 1 uthetha 4, ~~1 1 1 1 1~~ uthetha 5, aze u 1 1 1
~~1 1 1 1~~ athethe 7.

Zoba iithali zala manani alandelayo.

a. 3

b. 10

c. 6

d. 12

2. Jonga igrafu yemifanekiso uze uphendule imibuzo.

Isikhokhelo: ☺ umfundi omnye

Izilwanyana zabantwana

Inani abantwana				
	☺ ☺ ☺ ☺ ☺	☺ ☺ ☺ ☺ ☺ ☺ ☺	☺ ☺ ☺ ☺ ☺ ☺ ☺	☺ ☺ ☺ ☺ ☺
	Inja	Ikati	Intlanzi	intaka ☺

a. Bangaphi abafundi abanentlanzi?

b. Abafundi abaneekati baninzi ngesingaphi kwabanezinj a?

c. Bangaphi bebonke abafundi ababuziwego?
