



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

LUHLOLO LWEMNYAKA LWAVELONKHE

LIBANGA 3

TIBALO - SISWATI

ISETHI 3: SIBONELO 2012

TINKHOMBANDLELA TEKUSETJENTISWA KWETIBONELO TELUHLOLO LWAVELONKHE LWEMNYAKA (ANA)

1. Sibutsetelo lesivamile

Luhlolo Lwavelonkhe Lwemnyaka (ANA) luhlolo lwelwati nemakhono lekulindzeleke kwekutsi atfutfukiswe kubafundzi ekupheleni kwemnyaka emabangeni 1- 6 kanye nelibanga 9. Kusekela luhlolo lwabo lolugcile etikolweni nekucinisekisa kwekutsi bafundzi batfola kutetsema lokudzingekako kute bahlanganyele ngemphumelelo kuluhlolo lolusuka ngaphandle, litsimba labothishela kanye nabochwepheshe betifundvo bahlangene kute bahlanganise sibonelo semibuto yesivivinyo lesitawusetjentiswa ngubothishela kutifundvo tabo teLulwimi kanye neteTibalo. Sibonelo semibuto yesivivinyo leniketiwe, isuselwe emsebentini wekharikhulamu lofaka ekhatsi umsebenti wemaThemu 1, 2 kanye na 3 wemnyaka wesikolo kanye nesifanekiso sesivivinyo lesiphelele seLuhlolo Lwavelonkhe Lwemnyaka (ANA) welibanga ngalinye. Letibonelo, letifaka ekhatsi sifaniso sesivivinyo seLuhlolo Lwavelonkhe Lwemnyaka (ANA), tichibela luhlolo loluchubekako lolugcile etikolweni lokumele kwekutsi bafundzi bandlule kulo, letibonelo atiyitsatsi indzawo yeluhlolo loluchubekako.

2. Kwakheka kwetibonelo temibuto

Letibonelo ticondzise kubonisa emasu netindlela letehlukene tekuhlola emakhono kanye/nobe nelwati. Uma ngabe lolunye Iwati Iwalokucuketfwe nobe likhono kungahlolwa ngekusebentisa umbuto locuketse timphendvulo letinyenti (lapo umfundzi kumele akhetse imphendvulo lekunguyona mbamba kuleto letiniketiwe) nobe sitatimende (lesidzinga kwekutsi bafundzi babbale imphendvulo kuphela kumbe indzima) nobe letinye tinhlobo temibuto (ledzinga bafundzi kwekutsi bahlanganise emagama / titatimende ngemigca, kute bacedzise imisho leniketiwe nobe emaphethini, kukhombisa timphendvulo tabo ngemidvwebo nangemifanekiso, njll.). Ngakoke, uma bothishela nebafundzi batfola linani letibonelo temibuto leyakheke ngalokwehlukile kepha ibuta intfo yinye, kumele bavisise kwekutsi loko kwentiwe ngemabomu futsi bafundzi kumele bayiphendvule yokhe lemibuto yetibonelo. Kuveta ebaleni ngalokubanti tinhlobonhlobo temasu netindlela tekubuta, kuniketa bafundzi kutetsema lokudzingekako kute babukane netivivinyo

3. Kuhlanganiswa naletinye tinsita tekufundza nekufundzisa

Kute kube nekuchumana lokubalulekile, lamanye ematheksthi aletibonelo kanye nemibuto iye yahlanganiswa ngabomu neyeTincwadzi Temisebenti (Workbooks) lehambisana kahle nelizinga lalelo banga. Letibonelo tiphindze tihambisane netidzingo teSitatimende seKharikhulamu Savelonkhe (NCS) yemabanga R-12, lokutfolakala kuSitatimende SenchubomgomoyeKharikhulamu Nekuhlola (CAPS) yemabanga akhona lafanele kanye ne National Protocol for Assessment. Yonke lembihalo, seyihlangene naleminye letfolakala esikolweni, yakha sisekelo lesinotsile setinsita lesilekelela bothishela ekuhleleni tifundvo nasekuchubeni luhlolo loluhlelekile (kuhlolwa kwekufundza).

4. Tingasetjentiswa njani letibonelo

Nanobe letibonelo telibanga kanye nesifundvo kubutselwe ndzawonye kwaba yisethi yinye leyimbumba lepheleliwi, akukadzingeki kwekutsi thishela anikete bafundzi lomsebenti kutsi bawente sikhatsi ngasinye. Kumele thishela akhetse tibonelo temibuto lecondzene naloko lakuhlelile esifundvweni sakhe ngalesikhatsi lesiniketiwe. Umbuto munye nobe linani leliphatsekako lemibuto yesivivinyo yesibonelo lekhetfwe nobe yatonyulwa ngekucaphelisia, ingasetjentiswa etigabeni letahlukene tekuchubekisa kufundza nekufundzisa ngalendlela :-

- 4.1 Ekucaleni kwesifundvo njengesivivinyo seluhlololucwaningo kutfola emandla nebutaksaka lobukhona kumfundzi. Loluhlololucwaningo kumele luholele ekuniketeni satiso ngekushesha kubafundzi nasekusunguleni tifundvo letilungele kubasita kulobutsakatsaka losebubonakele bese kubacinisa emandla. Lesivivinyo semlahlo singaniketwa bafundzi njengemsebenti wasekhaya kute kongeke sikhatsi seticondziso ekilasini.
- 4.2 Ngalesikhatsi kufundvwa njenge tivivinyo letichubekako tekuhlola kwekutsi bafundzi bayatfutfuka elwatini lolumiselwe kanye nemakhono njengoba sifundvo sichubeka kute kube nesiciniseko sekutsi akekho umfundzi losalela emuva.

- 4.3 Emaphetselweni esifundvo nobe luhla Iwetifundvo njengesivivinyo sekuphela kwethemu kuhlola kwekutsi bafundzi batfole kucondza lokwenele futsi bangasebentisa lolwati nemakhono labawatfolile esifundvweni nobe etifundvweni lesebaticedzile. Lesatiso lesiya kubafundzi kumele siniketwe ngekushesha ngalesikhatsi thishela asancuma kwekutsi ingabe kukhona yini kulesifundvo nobe tifundvo lapho kumele abuyele emuva khona kucinisa lwti nemakhono latsile.
- 4.4 Kuto tonkhe tigaba kuveta tindlela letahlukene tekuhlola nekubuta kubafundzi, sib. kuphendvula imibuto lenetimphendvulo letinyenti letiniketiwe (MC), imibuto levulekile ledzinga timphendvulo letahlukene (OE) nobe imibuto ledzinga nobe nguyiphi imphendvulo (FR), imibuto ledzinga timphendvulo letimfisha (SA), njll.

Nanobe sivivinyo seluhlololucwaningo nalesichubekako singaba sifisha ngekwelinan iemibuto lefakiwe, sivivinyo sekuphela kwethemu sitawufaka imibuto lemnyenti kute kwakheke sivivinyo lesiphelele ngekuya kwemsebenti losewentiwe ngalesosikhatsi. Intfo lebalulekile kuba nesciniseko sekutsi ekugcineni bafundzi batfola litfuba lelanele lekutilungiselela ngekuphendvula tivivinyo letigcwele teluhlobo lwe sifanekiso seLuhlolo LwaVelonkhe Lwemnyaka (ANA).

5. Immemorandamu nobe tinkhombandlela tekumakha

Luhlolo Iwesibonelo sekuphendvula lesilindzelekile (tinkhombandlela tekumakha) siniketiwe kuleyo naleyo mibuto yesibonelo sesivivinyo yaphindze futsi yaniketwa kusifanekiso sesivivinyo seLuhlolo LwaVelonkhe Lwemnyaka (ANA). Kumele bothishela bakubeke etingcondvweni tabo kwekutsi angeke kwenteke kwekutsi immemorandamu ipheleliswe. Immemorandamu iniketa kuphela imitsetfo lebanti yetinhlobo tetimphendvulo letilindzelekile kantsi nabothishela kumele batibute ngalokujulile bese baniketa umvuzo kuloko lokukhetsiwe netingucuko tetimphendvulo letiniketiwe letemukelekako letivela kubafundzi.

6. Lokucukethwe yekharikhulamu

Kubaluleke ngalokwedlulele kwekutsi ikharikhulamu yentiwe yonkhe ngalokugcwele kulelo nalelo likilasi. Tibonelo telibanga ngalinye kanye nesifundvo akukameli ikharikhulamu yonkhe. Tiyisampula nje yelwati nemakhono lasemcoka futsi emsebenti lowetiwe ngemathemu 1, 2, na 3 emnyaka wesikolo. Kuhleleka kwemsebenti lokumele wentiwe lophelele kumathemu esikolo ukhonjisiwe kahle emiculwini yeCAPS.

7. Sipheto

Inhlosa yeLitiko kutfutfukisa emazinga nekhwalithi yekusebenta kwemfundzi kuhlolisa emakhono lasisekelo sekufundza nekubhala kanye nekubala. Luhlolo Lwemnyaka LwaVelonkhe ngulelinye lithulusi leisetjentiswa liLitiko kulandzela nekutfola kwekutsi kusebenta kwebafundzi kukhombisa kutfutfuko, kuma ndzawonye nobe kukhombisa kwehla. Tigodzi netikolo tilindzeleke kwekutsi tisekele bothishela tibuye tibanikete netinsita letidzingekako kutfutfukisa kufundza nekufundzisa lokuyimphumelelo etikolweni. Ngekusebentisa tibonelo te-ANA njengencenyne yetinsita tabo tekufundzisa, bothishela batawulekelela bafundzi ekutseni batetayele letindlela nemasu lahlukene lasetjentiswako nakuhlolwa. Ngekusebentisa kahle kwetibonelo kutawukwenta kwekutsi bafundzi basitakale ekutfoleni lwti lolufanele futsi batfutfukise emakhono langiwo ekufundza ngemphumelelo babuye basebente kancono kutivivinyo te-ANA letitawulandzela.

TINOMBOLO, TIMPHAWU TEKUBALA NEBUDLELWANE

1. Bhala tinombolo letingekho etikhaleni lotinikiwe.

a. 350; 450; _____ ; 650; _____ ; _____ ; 950

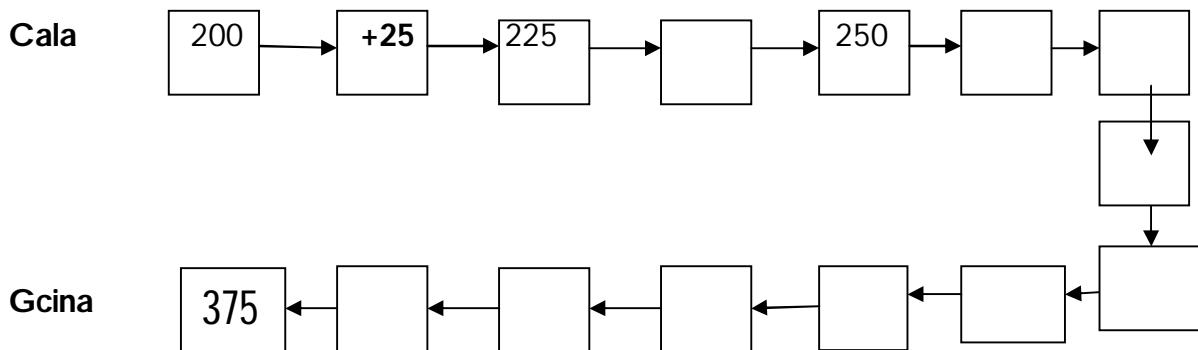
b. 500; _____ ; 498; 497; _____ ; _____ ; 494



2. Cedzela lithebula.

a	50				300		400				650		
b		126	129			141							165
c	498				488				478			472	
d	205			225				250		260			
e		312		310	309			305					299

3. Landzela imicibisholo bese ubhala tinombolo letingekho emabhokisini.



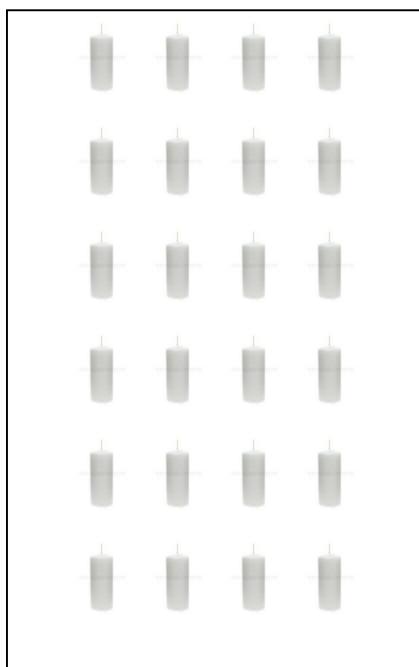
4.



Suzan usebenta efemini yemakhandlela. Upaka emakhandlela la-10 ebhokisini ngalinye.

Linani lemakhandlela lapakwe emabhokisini la-15 = _____.

5. Buka tincumbi emakhandlela kulesit fombe lesilandzelako bese uphendvula imibuto.



a. Mangaki emakhandlela lasemgceni munye loya phasi? _____

b. Emakhandlela nasahlangene onkhe kulesit fombe = _____

6. **Bhala ngemagama tinombolo letilandzelako.**

a. 473 _____

b. 204 _____

7. **Bhala inombolo lesemkhatsini ubuye uyibhale ngemagama. 268 ne 270.**

a. Inombolo _____.

b. Inombolo ngemagama _____.

8. **Bhala inombolo ngemagama 780 _____.**

9. **Condzanisa ngemigca inombolo lebhalwe ngemagama kanye nenombolo yayo.**

Emakhulu lamatsatfu nemashumi lasitfupha nakunye.

160

Emakhulu lamabili nelishumi.

483

Emakhulu lamatsatfu nelishumi nesitfupha.

361

Likhulu nemashumi lasitfupha.

316

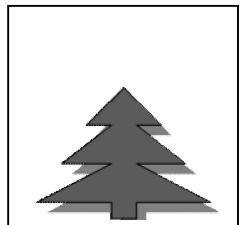
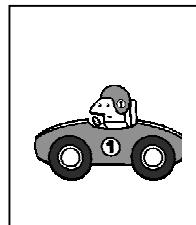
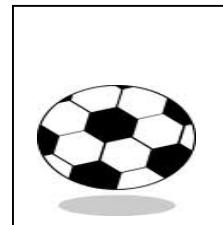
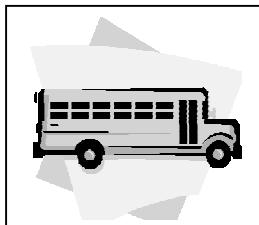
Emakhulu lamane nemashumi lasiphohlongo nakutsatfu.

210

10. **Bhala ufolise tinombolo letilandzelako ticale kulencane kakhulu.**

13 · 31 · 28 · 6 · 2

11. Buka kahle tif tombe le tingenhla. Isebhokisini lesingaki imoto uma usuka esancele?



Imoto ise bhokisini le _____ kusukela esancele.

12. Gcwalisa > nobe < kute umusho wetinombolo ngamunye ube liciniso.

- a. 613 _____ 731
- b. 490 _____ 290
- c. 327 _____ 732

13. Biyela ngendilinga luhlavu lolunemphendvulo le fanele.

- A 472 > 742
- B 399 < 500 + 99
- C 221 = 122
- D 749 > 750 - 1

14. Bhala ufolise tinombolo lotiniketiwe usuke kulencane uye kulenkhulu.

- a. 631 , 366 , 613 , 376 , 276 , 167

- b. 742 , 422 , 472 , 727 , 442 , 247

15. **Gcwalisa tinombolo letingekho.**

- a. $673 = \underline{\hspace{2cm}} + 3$
b. $417 = 410 + \underline{\hspace{2cm}}$

16. **Bhala bungako bedij ithi ledvwetj elwe enombolweni ngayinye.**

- a. 472
b. 27

17. Ku-694 kunemashumi la-69. Liciniso nobe liphutsa? _____

18. **Dvwebela indilinga eluhlavini lolunemphendvulo lefanele.**

Kulenombolo 374, 3 simelibungako sani.

- a. emashumi
b. emakhulu
c. imivo

19. **Hlahlela 573 ngetindlela le-2 letehlukene.**

- a. $573 = \underline{\hspace{2cm}}$
b. $573 = \underline{\hspace{2cm}}$

20. **Bhala tinombolo noma emagama langekho emabhokisini.**

- a. $298 = \boxed{\text{emakhulu}} + \boxed{\text{emashumi}} + \boxed{\text{imivo}}$
- b. $310 = \boxed{3} + \boxed{1} + \boxed{0}$

21. Condzanisa tinombolo nenombolo lesemakhadini.

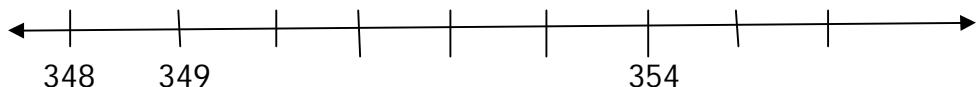
316		
128		
411		
269		
	400	1
	200	60
	10	300
	8	20
	100	6

22. Bhala $10 + 7 + 300$ ngendlela lelula.

23. Gcwalisa tinombolo letingekho.

	Inombolo lephindwwe kibili	Inombolo	Inombolo i lehhafuliwe
a.		150	
b.		84	
c.		21	

24. Bhala 352 endzaweni yakhe kulomugcatinombolo.



25. Sondzeta inombolo ngayinye eshumini lelidvutane.

a. $62 = \underline{\hspace{2cm}}$ sondzeta eshumini.

b. $127 = \underline{\hspace{2cm}}$ sondzeta eshumini.

26. Thishela wacela bafundzi kutsi bagcogce tivalo temabholdele.
Sakhile wagcogca tivalo leti-619 kwatsi Lebo wagcogca leti-125. Tingaki tivalo temabholdele letigcogcwe boSakhile naLebo setihlangene tonkhe?
27. Anna nebangani bakhe laba-3 bagcogca titembu lebafuna kudlala ngato. Ngamunye wabo wagcogca titembu leti-23. Tingaki titembu lebatigcogca setiphelele?
28. Thishela ute nemakhekhe la- 45 esikolweni. Ufuna kuniketa bafundzi laba-4 labatawufika ngesikhatsi esikoleni.
Umfundzi ngamunye utawuftola lamangaki emakhekhe?
29. Hlukanisela Themba nemngani wakhe timabuli leti-68.
Munye wabo utawuftola lettingaki timabuli?
30. Bangani labatsatfu batsenga emaswidi la-35 lebahlukaniselana ngalokulinganako. Munye kumele atfole emaswidi lamangaki?
31. Busi unetimabuli leti-125. Timabuli taVera tincane nga-82 kunetaBusi.
Vera unetimabuli lettingaki?
32. Esitolo saseShoprite kupake timoto leti -21.
Mangaki emavili ato nasahlangene nemavili ekucondzisa imoto?

33. Sebentisa luhla lwemanani kute uphendvule imibuto.



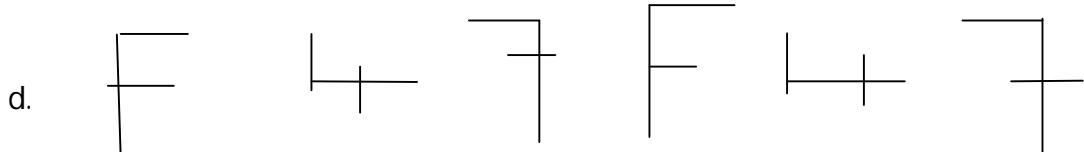
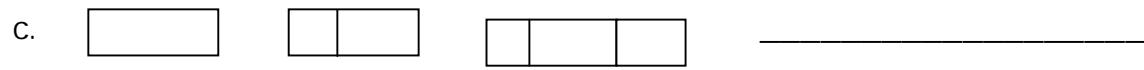
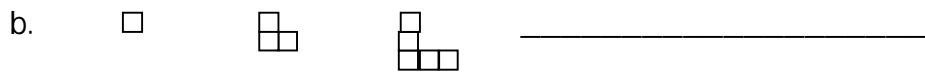
- Yini umehluko phakatsi kwemali yepeni nemali yepenseli? _____
- Sanie watsenga emapeni la- 2, ipeniseli, iraba nesikhwama semapeniseli. Sekukonkhe ukutsenge ngamalini?
- Thishela wami ufunu kutsenga emakhilayoni la-2, 2 emapeni nemapeniseli la-2. Bala intj intj i yakhe nangabe abhadala nge-R50 lehlangene yeliphepha.
- Mangaki emabhokisi emakhilayoni latsengwa nguMusa nangabe abhadale R60?

34. Cedzela loku lokulandzelako:

- $763c = R$ _____
- $207c = R$ _____
- $579c = R$ _____
- $R2,63 =$ _____ c
- $R6,15 =$ _____ c
- $R4,25 =$ _____ c

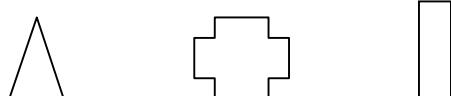
Emaphethini, Emafangishini ne-Algebra

1. Dwweba umdwwebo lolandzelako kuphethini ngayinye.



2. Sebentisa bobunj wa labangetasi kwenta yakho iphethini.

Phindza iphethini yakho ka-3.



3. Bhala tinombolo le-3 letilandzelako kulephethini.

a. 526, 527, 528, _____ , _____ , _____

Chaza lephethini lengenhla ngewakho emagama.

- b. Gcwalisa tinombolo letingekho kulokulandzelana.

738, 736, 734, _____, _____, _____, 726

Chaza lephethini ngemagama akho.

4. Sisebenti sifuna kupaka emathini enamanedi emabhokisini.

Libhokisi linye liphatса emathini enamanedi la-25.

Cedzela lithebula.

Linani lemabhokisi	1	2	3	4		6
Linani lemathini	25	50		100	125	

5. Cala ngenombolo loyiniketiwe, bese wakha yakho iphethini, ubuye usho umtsetfo lowusebentisile nawenta lephethini .

a. 330, _____, _____, _____ .

Umtsetfo lowusebentisile : _____

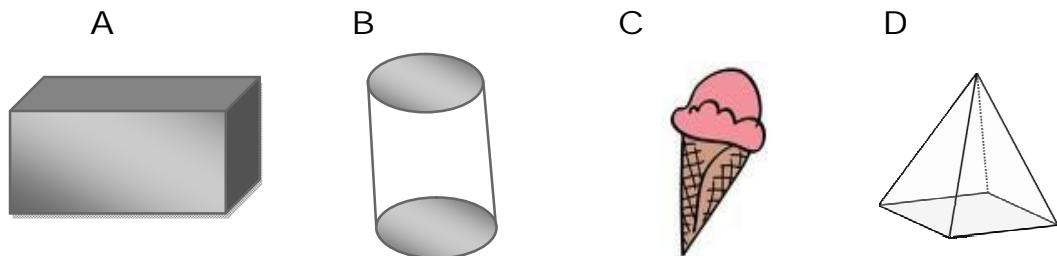
b. 504, _____, _____, _____ .

Umtsetfo lowusebentile: _____

Sikhala nabobunj wa.

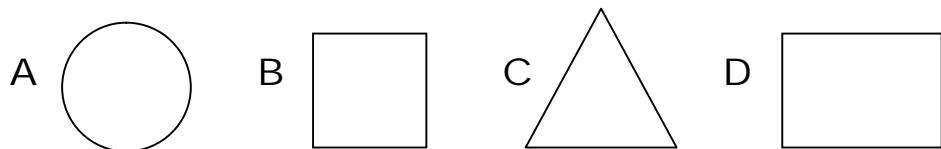
1. Biyela ngendilinga luhlavu lolunemphendvulo lekungiyo.

Nguyiphi intfo leyikhoni kuletintfo letilandzelako?

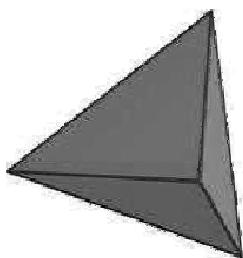


2. Biyela ngendilinga luhlavu lolunemphendvulo lekungiyo.

Ngubaphi kulabobunj wa labangemadayimenshini lamabili (2-D) lekwakhiwa ngabo iradiksi yesikwele leyiphiramidi?



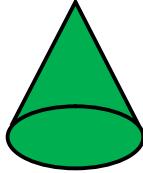
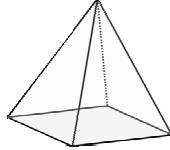
3. Bukisia lentfo lengentasi bese uphendvula imibuto lelandzelako.



a. Yini ligama la lentfo lengemadayimenshini lamatsatfu (3-D) lengenhla?

b. I nebuso lobungaki lentfo lengemadayimenshini lamatsatfu (3-D) lengenhla?

1. Dvweba umugca ucondzanise int fo neligama layo.

	I radiksi yesikwele leyiphiramidi
	I khoni
	I prizimu lengucalandze
	I silinda

Silinganiso

1. Nguyiphi iyunithi yekukala lewutayisebentisa kukala

a. budze belibhuku ? _____

b. bubanti beliklasi? _____

2. **Sebentisa ikhalenda lengentasi uphendvule imibuto .**



a. Tinyanga letinemalanga la-30 ngu _____

b. Linani lemalanga latayelekile emnyaka wonkhe = _____

c. Linani leMigcibelo lekhona enyangeni yaKholwane = _____

d. Linani lemaviki onkhe emnyaka = _____

e. Linani letinyanga tonkhe temnyaka = _____

f. Linani lemalanga lasemkhatsini welilanga lebasebenti kanye

nelilanga lalabasha = _____

3.

3. Buka ikhalenda lekumbuto 2 bese ucedzela **lithebula**.

Lusuku	Emaholide aseNingizimu Afrika	Lilanga ekhalendeni
a. 01 Bhimbidvwane 2012	Lilanga lemnyaka lomusha	
b. 21 Indlovulenkhulu 2012	Lilanga lemalungelo eluntfu	
c. 01 Inkhwekhweti 2012	Lilanga lebasebenti	
d. 16 Inhlaba 2012	Lilanga lensha	

4. Emalanga la-42 alingana nemaviki la _____

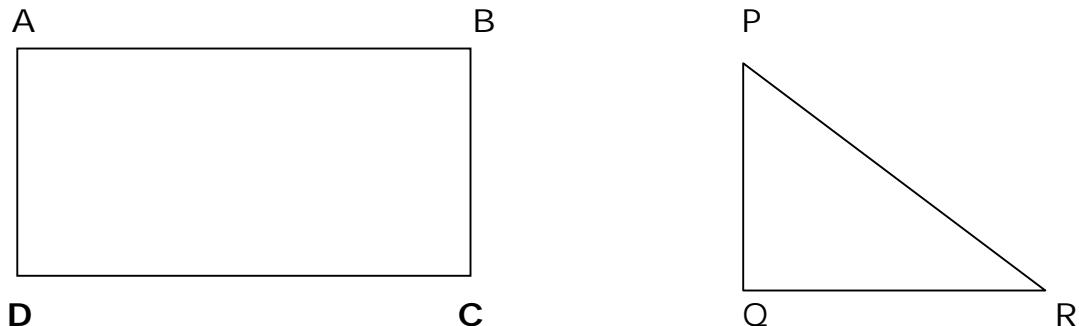
5. Tinyanga le-4 tilingana na _____ emnyakeni

6. Cedzela: Uma ewashini lutsi **Iwemaminithi** lukhombe -10, lisho kutsi
noma _____.

7. Cala ucombele bese **usebentisa irula kukala budze belicala ngalinye**

kulemidvwebo usebentise ema-sentimitha. Bhala timphendvulo

takho kulelithebula .



	Emacele	Imphevdvulo leconj eliwe	Iphendvulo let folwe nakukalwa
a.	AB		
b.	BC		
c.	DC		
d.	AD		
e.	PQ		
f.	PR		
g.	QR		

8. Bala libanga lekutungeleta umdvwebo ngamunye lokumbuto 6

- a. Libanga lonkhe lelitungeleta calandze ABCD = _____
- b. Libanga lonkhe lelitungeleta calantsatfu PQR = _____

Kusebenta ngedatha

1. Sonile wabhala emasayizi eticatfulo tebafundzi belibanga 3 ngalendlela:

4	7	7	6	4	5	3	6
7	4	5	3	3	6	7	3
3	5	7	4	6	5	3	4
6	3	4	4	7	4	3	5

Linani lebafundzi labagcoka isayizi 3 yeticatfulo = _____

4 = _____

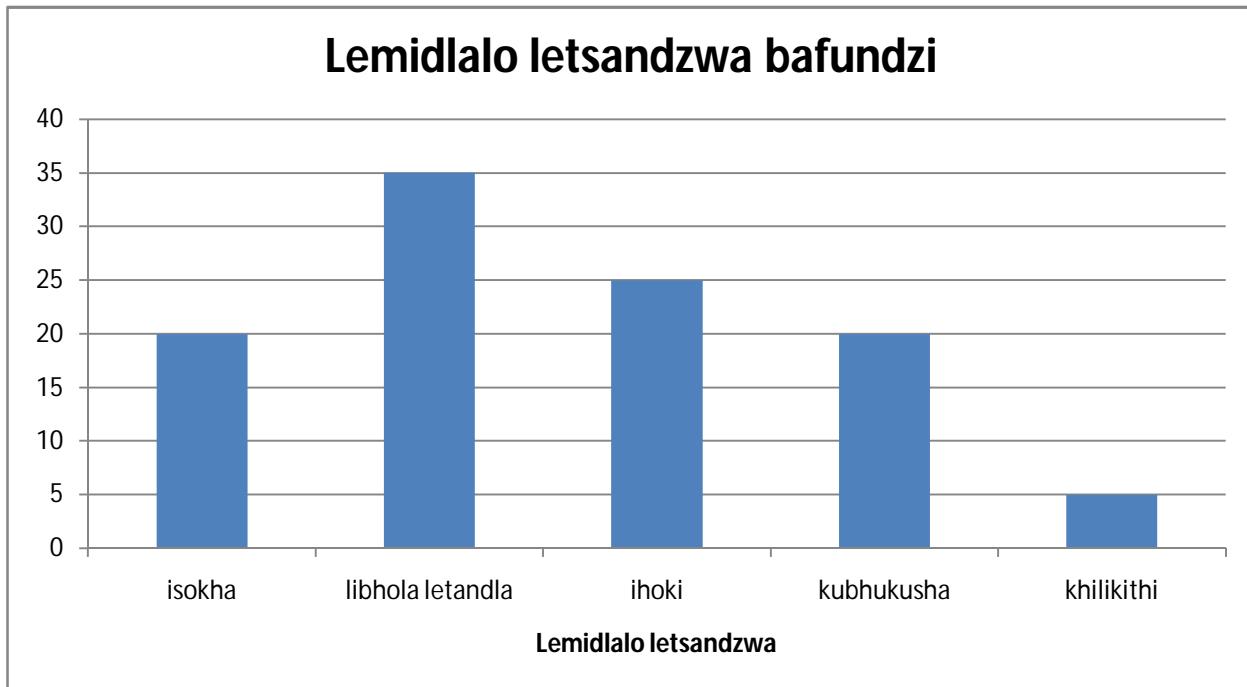
5 = _____

6 = _____

7 = _____

Dwweba ukhombise lolwati ngebhagrafu.

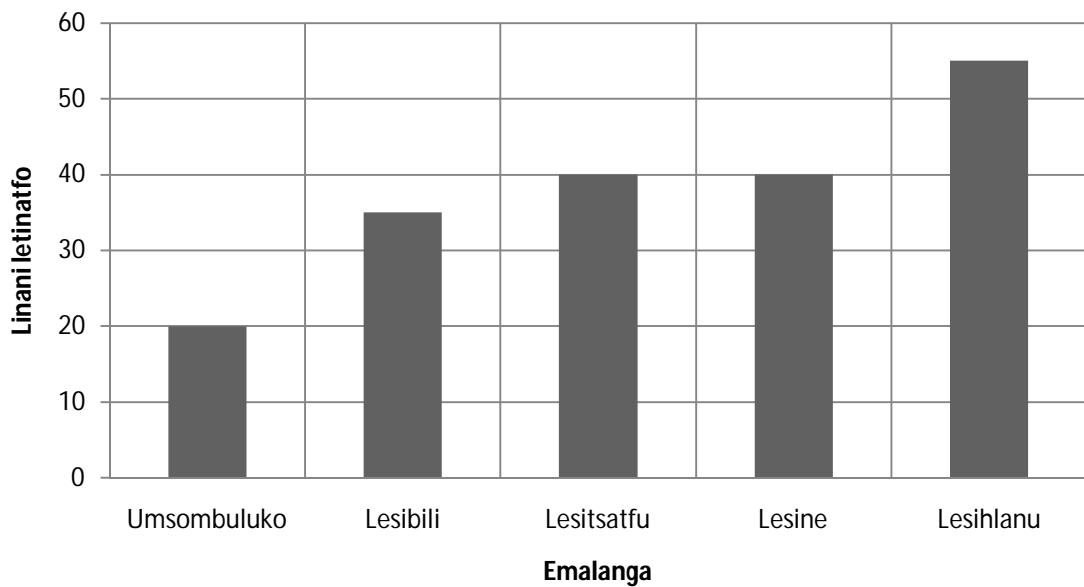
2. **Sebentisa ibhagrafu lengentasi kute uphendvule imibuto.**



- Bangaki bafundzi labakhetsi ihokhi? _____.
- Linani lebafundzi labakhetsi ikhilikithi _____.
- Umdlalo lokhetfwe bafundzi labanyenti _____.
- Umdlalo lokhetfwe bafundzi labancane kakhulu _____.
- Nguyiphi imidlalo le-2 lekhetfwe bafundzi ngalokulinganako?
_____.

3. Lebhagrafu lelandzelako ikhomba emanani etinatfo letibandzako letitsengiswe nguSipho esitolo ngeliviki lesikolo.

Emanani etinatfo letitsengisiwe



- Tinatfo letitsengiswe ngeMsombuluko = _____
- Lilanga lapho kutsengwe khona tinatfo letinyenti _____
- Linani letinatfo letitsengiswe ngaLesihlanu = _____
- Tinyengi ngakungaki tinatfo letitsengiswe ngaLesihlanu kunaleto letitsengiswe ngaLesine? _____ .