



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

XIKAMBELO XA TIKO XA LEMBE NA LEMBE

GIREDI 2

MATEMATIKI-XITSONGA

SETE 2: 2012 XIKOMBISO

Maletlelo ya matirhiselo ya swikombiso swa ANA

1. Nhlamuselo hi ku angarhela

Swikambelo swa Tiko swa Lembe na Lembe (ANA) i swikambeleo swo antswisa vuswikoti ni vutivi bya vana leswi languteriweke ku va swi antswisiwile eku heleni ka tigiredi ta 1-6 na 9. Swi ta pfuneta na tidyondzo ta vona ta xikolo ta masiku hinkwawo na ku engetela vutiitshembi ni ku va va ta kota ku humelela eka swikambelo swa le handle. Nhlengeletano ya vadyondzisi na vativinkulu va tidyondzo ta Ririmi na Mathematiki va tshamile hansi va endla swikombiso swa swivutiso swa swikambelo leswi nga tirhisiwaka eku dyondziseni ka Ririmi na Mathematiki. Swikombiso leswi swa swikambelo swi huma eka kharikhulamu, leswi swi katsaka titheme ta 1,2, na 3 laha ku nga tlhela ku va na swikombiso swa swikambelo swa Tiko swa Lembe na Lembe (ANA) swa giredi yin'wana na yin'wana. Swikombiso leswi swi engetela swikambelo swa xikolo leswi swi kamberiwaka vana nkarhi na nkarhi kambe ku nga ri ku va swi pfala swona kumbe ku pasa hi swona.

2. Swi fambelana na swin'wana na swin'wana swa switirhisiwa swa ku dyondza na ku dyondzisa

Swikombiso swi endlile hi ku landzelela swilaveko swa ku ya hi xitatimende xa pholisi ya kharikhulamu ya tigiredi R- 12(NCS), xitatimende xa pholisi ya kharikhulamu na makambeleo(CAPS) na tsalwa ra Huvo ya Rixaka ya Makambeleo (National Protocol for Assessment). Hinkwaswo switirhisiwa leswi na swin'wana swi tirhisiwile ku humesa switirhisiwa leswi swa xiyimo xa le henhla ku pfuna vadyondzisi eka ku pulana eka adyodziselo ya vona ya masiku hinkwawo na ku kambela vana.

3. Matirhiselo ya swikombiso swa xikambelo

Mudyondzisi a nga fanelanga ku nyika vadyondzi swikombiso swa xikambelo ku hlamula swivutiso hinkwaswo leswi a nga nyikiwa hi siku rin'we, hambu leswi swikombiso swi nga hi swivumbeko swa tindzimana. Mudyondzisi u fanele ku va a hlawula swivutiso swo karhi a tirhisa swona hinkarhi wo karhi lowu awu pulaneke. Mudyondzisi u fanele ku hlawula swivutiso swo karhi hi vukheta leswi a nga ta swi tirhisa hi tindlela to hambana hambana eku dyondzeni na ku dyondzisa hi ndlela leyi:-

- 3.1 Vana va ta tsarisiwa xikambelo xo tsotsosela xo kambela vuswikoti ni vuhluleki bya vona eku sunguleni ka dyondzo. Xikambelo lexi xo **lavisisa** xi ta endla leswaku ku kumeka mbuyelo wa ntiyiso wa matsandzelo kumbe vuswikoti bya vana ni ku va ku antswisiwa tidyondzo leti nga ta ololoxa swiphigo . xikambelo lexi xo **lavisisa** xi ta tsariwa tani hi ntirho wa le kaya ku ka xi nga kavanyeti mintirho leyin'wana ya le titlilasini.
- 3.2 Hi nkarhi wa ku tsariwa ka **xikambelo xa xikarhi ka lembe** lexi kambelaka vuswikoti ni vutivi bya vana, tidyondzo leti ti fanele ku ka ti nga siyi n'wana ni un'we ehandle.
- 3.3 Vana va ta kamberiwaka hi ku tsala **xikambelo xo hela ka lembe** ku kambela loko vana va engeterile vutivi na vuswikoti eka tidyondzo leto antswisa. **Mbuyelo** wu fanele ku nyikiwa hi mudyondzisi a kombisa laha ka ha lavaka ku tlhela ku dyondzisiwa nakambe ku endlela ku **katsakanya** laha ku lavaka ku lavaka ku engetela mfumalo wo rinanela wa vutivi ni vuswikoti kona.

3.4 Vana vat a va va kuma mfuno hi maendlelo lawa va nga ta kamberiwa hi wona, xik.ku hlamula hi khlawulanhlamulo leyi nga yona(MC) swivutiso xo pfuleka(OE) kumbe swivutiso swo lava nhlamulo yin'wana na yin'wana(FR), tinhlamulo to koma,sw ni sw.

4. **Xikambelo xa xikarhi ka lembe na xikambelo xo lavisisa** swi ta va na swivutiso swo koma, kasi xikambelo xo hela ka lembe xi ta va na swivutiso swo hlaya leswi nga ta va swikatsakanya tidyondzo leti nga ta va tidyondzile.Xa nkoka i ku endlela leswaku vana va kota ku tolovetiwa ku hlamula swivutiso swa xikambelo hiku landzelerisa **makambeleso ya swikambelo swa tiko swa lembe na lembe**(ANA).

5. **Maletelolo ya swivutiso na swikomba tinhlamulo**

Xikombiso xa xikomba tinhlamulo (memorandum) xi nyikiwile eka swikombiso swa xikambelo leswi nga tsariwa hi makambeleso ya swikambelo swa tiko swa lembe na lembe(ANA) Xikomba tinhlamulo xi nyika vundzeni bya swilaveko leswi swi faneleke ku hlamula swivutiso swa vadyondzi leswi vadyondzisi va nga ta tlhela va swi twisisa, va swi amukela ni ku swi twisisa ku swi tirhisa hi ndlela leyi amukelekaka.Xikamba tinhlamulo xi tsariwile hindlela yo olova eka mudyondzisi.

6. **Swiangarhela na kharikhulamu**

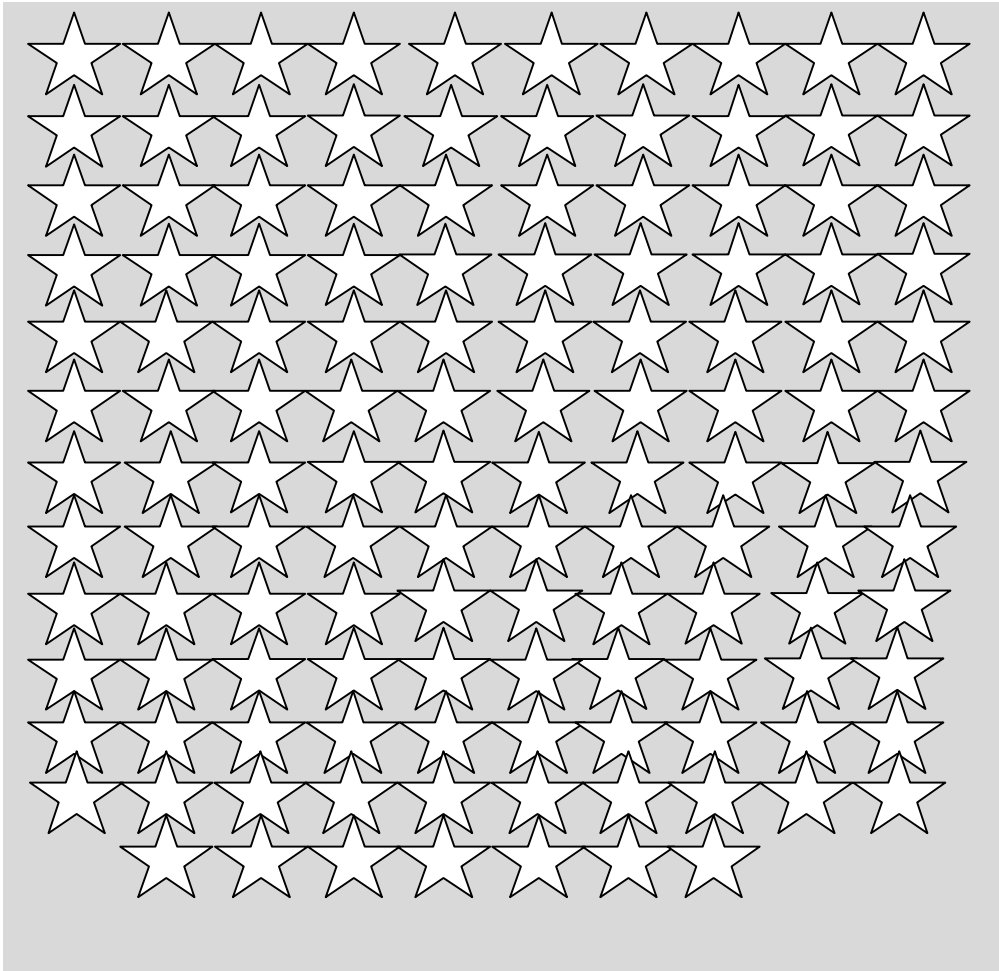
Swi fanerile leswaku kharikhulamu yi angarheriwa hi ku hetiseka eka tlilasi yin'wana na yin'wana.**Swikombiso** swa giredi yin'wana na yin'wan na dyondzo yin'wana na yin'wana a swi angarhelangi kharikhulamu.Swikombiso leswi i swo pfuna ku engetela vutivi na vuswikoti leswi angarhelaka tiitheme ta lembe ta 1, 2 na 3. Ntirho lowu wu angarhela na tiitheme ta xikolo leti vekiweke ku ya hi tsalwa ra CAPS.

7. **Mahetelelo**

Xikongomelo xa Mfumo i ku antswisa xiyimo xa dyondzo ni ku antwsisa vutivi bya ririmi ra le kaya na nyumeresi eka dyondzo ya vana va le hansa. Xikambela xa Tiko xa Lembe na Lembe (ANA) i xitirho lexi Mfumo wa le Xikarhi wu xi tirhisaka ku kambela loko vana va karhi va engetela kumbe ku ka va nga engeteli vutivi na vuswikoti eka tidyondzo ta Rirmi ra le kaya na tidyondzo ta Numeresi eka vana. Swifundzhantsongo na Swikolo swi fanele ku seketela vadyondzisi eka ku humelerisa xikambelo xa Tiko xa Lembe na Lembe (ANA) hi ku vona leswaku kuna switirhisiwa leswi faneleke ku endlela ku tlakusa dyondzo ya vana eswikolweni. Hi ku tirhisa Swikombiso swa xikambelo xa Tiko xa Lembe na Lembe(ANA), vadyondzisi vat a kota ku toloveta vana hi tindlela to hambana hambana ta mavutiselo ya xikambelo.Loko ko landzeleriwa swikombiso swa xikambelo hi mfanelo, vana va nga tokota ngopfu hi vutivi ni vuswikoti lebyi kulu lebyi nga endlaka leswaku va humelela eka xikambelo xo hela ka lembe xa Tiko xa Lembe na Lembe (ANA).

TINOMBORO, TIOPAREXINI NA VUXAKA.(0-150)

1. Langutisa xifaniso kutani u hlamula swivutiso.



- a. Hlayela tinyeleti kutani u tsala mfungho wa nomboro lowu nga wona. _____
- b. Xana kuna mitlawa yingani ya vamune eka tinyeleti?

- c. Xana kun a mitlawa yingani ya vantlhanu ya tinyeleti? _____
- d. Xana ku na mitlawa yingani ya vanharhu ya tinyeleti? _____
- e. Xana kun a mitlawa yingani ya va khume ya tinyeleti?

2. Nghenisa tinomboro leti kayivelaka.

a. 131; _____; 133; _____; _____; 136.

b. 120; _____; _____; _____; 140

3. Hetisa tipatironi ta tinomboro leti kayivelaka.

a. _____; 70; 72; _____; _____; 78

b. 110; _____; _____; 95; _____; 85

4. Nghenisa tinomboro leti kayivelaka eka yin'wana na yin'wana ya mixaxamelo leyi landzelaka.

a. 36; 37; _____; _____; 40

b. 66; 68 ; _____; _____; 74

c. 12; 16; _____; _____; 28

5. Tsala mifungho ya tinomboro ya mavito tinomboro lama landzelaka.

a. Makumenkombonhungu _____

b. Dzana na ntlhanu _____

c. Dzana makumentlhanu _____

6. Tsala mavito ya tinomboro hi marito.

- a. 36 _____
- b. 52 _____
- c. 100 _____
- d. 32 _____

7. Dirowa miseve ku pananisa mfungho wa nomboro na vito ra nomboro leri nga rona.

- a. 98 dzana makumemunekaye
- b. 118 makumenhungu
- c. 149 dzana na khumenhungu
- d. 80 khumen'we
- e. 11 makumekayenhungu

8. Tsala nomboro leyi kumekaka exikarhi ka phere yin'wana ya tinomboro.

a.	19		21
b.	23		25
c.	59		61

9. Nghenisa =, > kumbe < exikarhi ka phere yin'wana na yin'wana tinomboro ku endla leswaku swivulwa swi ntiyiso.

a. 122 _____ 102

b. 105 _____ 105

c. 101 _____ 110

10. Longoloxa tinomboro ku suka eka leyintsongo ku fika eka leyikulu

a. 100 110 95 90 105 _____

b. 51 15 105 115 _____

c. 56 54 50 52 58 _____

11. Longoloxa tinomboro ku suka eka leyikulu ku ya fika eka leyintsongo.

a. 35 47 43 31 39 _____

b. 35 40 25 45 30 _____

c. 42 44 43 45 30 _____

12. Tlhantlha yin'wana na yin'wana ya tinomboro ta tidijiti timbirhi leti landzelaka.

Xikombiso: $37 = 30 + 7 = 3$ vukhume + 7 vun'we.

a. $27 =$ _____

b. $14 =$ _____

c. $41 =$ _____

d. $52 =$ _____

13. Eka nomboro:

a. 28, nkoka wa dij it 8 i _____ naswona nkoka wa dij iti 2 i _____.

b. 35, nkoka wa digit 5 i _____ naswona nkoka wa dij iti 3 i _____.

c. 42, nkoka wa dij iti 2 i _____ naswona nkoka wa dij iti 4 i _____

14. Khakhuleta hi ku tlhantlha nomboro leyikulu.

Xikombiso: $19 + 7 = 10 + 9 + 7$
 $= 10 + 10 + 6$
 $= 26$

Nghenisa nomboro leyi kayivelaka.

a. $16 + 7 = \underline{\quad} + \underline{\quad} + 7$
 $= \underline{\quad} + \underline{\quad} + \underline{\quad}$
 $= \underline{\quad}$

b. $19 + 6 = 10 + \underline{\quad} + 6$
 $= 10 + \underline{\quad} + \underline{\quad}$
 $= \underline{\quad}$

15. Hafula nomboro leyi nyikiweke.

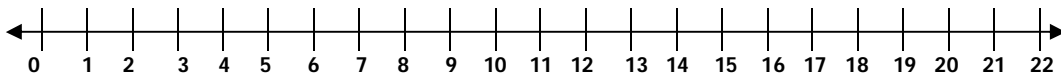
	Nomboro	Nomboro yi hafuriwile
a.	24	
b.	16	
c.	12	

16. Mbirhahata nomboro leyi nyikiweke.

	Nomboro	Nomboro yi mbirhahatiwile
a.	18	
b.	10	
c.	14	

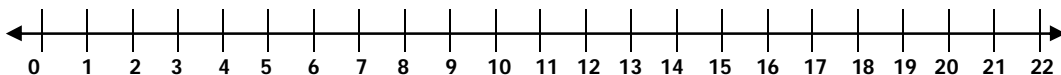
17. Tirhisa nzhati wa mitsengo ku:

a. hlanganisa 13 na 8.



Kutani $13 + 8 =$ _____

b. susa 14 eka 22.



Kutani $22 - 14 =$ _____

MAOLOLOXELO YA SWIPHISO (TINHLAYO TA MARITO)

18. Hlamula swivutiso leswi landzelaka.

a. Nyiko a ri na 45 wa timhavula. U lahleleriwile hi 20 wa ti mhavula. Xana u na u saleriwile hi timhavula tingani?

Nomboro ya timhavula leti nga sala = _____.

b. Tholani a ri na 16 waswiwitsi. U nyikile Basi 7. Xana Tholani u na swiwitsi swingani sweswi?

Nomboro ya swiwitsi = _____.

c. Javulani khile 23 wa mapencisi kasi Buti u khile 25 wa pencisi. Xana Javulani u khile mapencisi yo tala ku tlula Buti hi mangani? Javulani u khile _____ wa mapencisi ku tlula Buti.

d. Mkateko, Lera, Maria na Phamelac va na 4 wa swiwitsi ha un'we un'we. Xana va na swiwitsi swingani hinkwavo?

Nomboro ya swiwitsi = _____

19. Nghenisa nomboro leyi kayivelaka ku hetisa nhlayo yaku hlanganisa hi ku vuyelela.

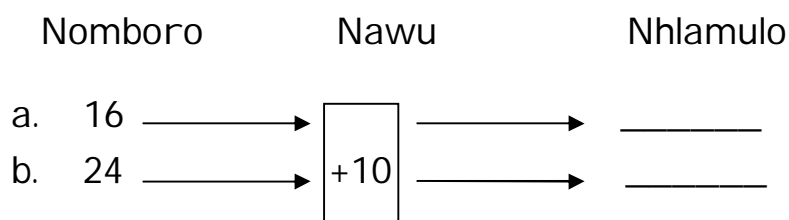
a. $27 + 2 + \underline{\quad\quad} + \underline{\quad\quad} = 33$

b. $31 + \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad} = 43$

c. $16 + 10 + \underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$

d. $19 + 6 + \underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$

20. Hetisa dayagiramu ya nongonoko wa matirhelo.



KU NTLAWAHATA NA KU AVA.

.
.
.

21. Langutisa tidoto leti nga laha ehenhla kutani u hetisa xivulwa xin'wana na xin'wana.

- a. Ku na tirhowu ti 3 leti yin'wana na yin'wana yi nga na _____ wa tidoto.
- b. Ku na _____ wa tidoto hinkwato.

22. Tsakani u fanele ku veka 36 wa makhadi hi mitlawa leyi nga na 6 wa makhadi eka ntlawa wun'wana na wun'wana.

- a. Xana u ta veka mitlawa mingani?

- b. Xana munhu wun'wana na wun'wana u ta kuma mali muni loko R48 yi arviwa ku ringana exikarhi ka 8 wa vanhu?

- c. Eka tlilasi ya Giredi 3 leyi nga na 42 wa vadyondzi ku na nomboro yo ringana ya vanhwanyana na vafanag. Xana kun a vanhwanyana vangani eka tlilasi leyi?

23. Hlamula swivutiso leswi landzelaka.



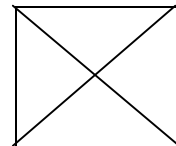
- a. Xivumbeko lexi nga laha ehenhla xi avanyisiwile hi _____ wa swiphemu leswi ringanaka naswona _____ wa swiphemu swi hlovohatiwile.



- b. Xivumbeko lexi nga laha ehenhla landzelaka xi avanyisiwile hi _____ wa swiphemu leswi ringanaka naswona _____ wa swiphemu swi hlovohatiwile.
- c. Hlovohata xiphemu xa fueakixini eka xivumbeko xin'wana na xin'wana.

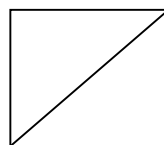
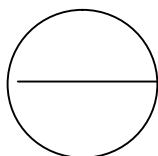
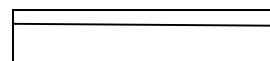


N'wne xa nharhu



Kotara

- d. Maraka xivumbeko xin'wana na xin'wana hi "✓" kumbe "x" ku komba loko xi avanyisiwile hi swiphemu swi2 swo ringana kumbe e-e.



MALI.

24. Hetisa tafula.

	Nxavo	U hakerile hi	Cinci
a.	R1,20	R2	
b.	R10	R20	
c.	R3	R5	

25. Masesi u xava kalavatla hi R8 na papawa hi R9.
Xana u ta kuma cinci ya mali muni loko a hakela hi mali ya phepha ya R20?

Cinci = _____.

26. Khakhuleta.

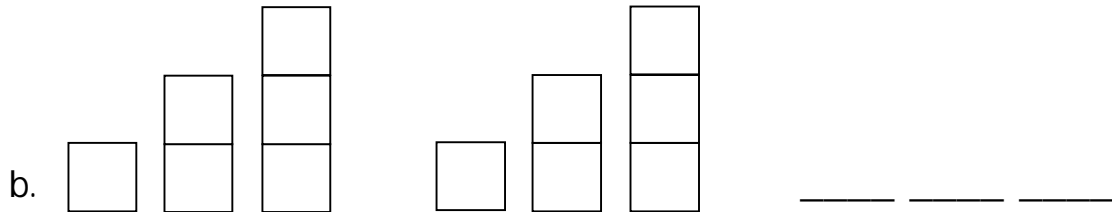
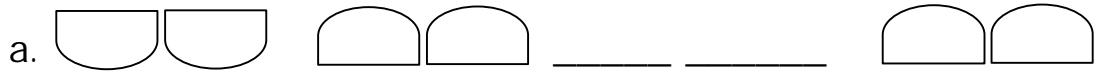
a. $5c + 10c + 10c = \underline{\hspace{2cm}}$

b. $5c + 5c + 10c = \underline{\hspace{2cm}}$

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

TIPATIRONI.

27. Hetisa tipatironi.



28. Tsala tinomboro ti 2 leti landzelaka eka yin'wana na yin'wana ya mixaxamelo.

a. 132; 133; 134; _____; _____; _____; 138

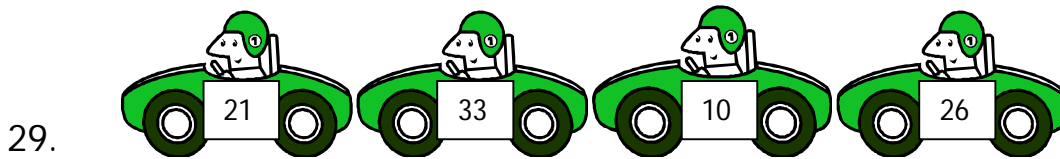
b. 132; 134; 136; _____; _____; _____; 142

c. 146; 144; 142; _____; _____; _____; 134

d. 120; 125; 130; _____; _____; _____; 150

e. 114; 117; 120; _____; _____; _____; 132

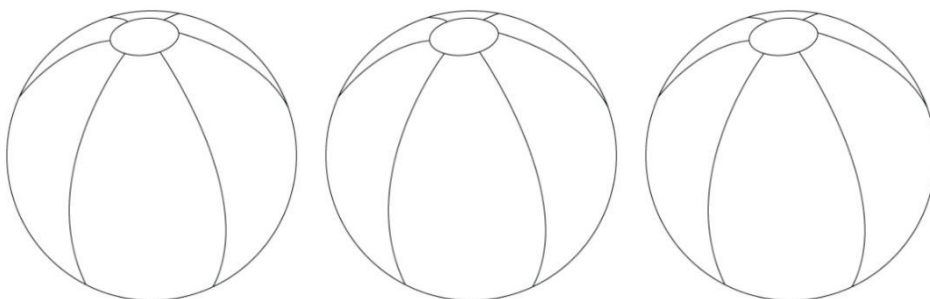
VUNDHAWU.



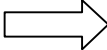
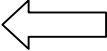

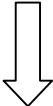
Mimovha ya 4 yi yimile eka rhowu.

Hetisa:

- Movha wa nomboro ya _____ wu le mahlweni.
 - Mimovha ya tinomboro _____ na _____ yi le nzhaku ka movha wa nomboro ya 33.
 - Movha wa nomboro ya _____ wu le ndzhaku ka movha wa nomboro ya 10.
 - Movha wa nomboro ya _____ wu le mahlweni ka movha wa nomboro ya 33.
30. Hlovohata bolo leyi nga eximatsini hi muhlovo wa xitshopana na leyi nga exineneni hi muhlovo wa wasi. Hlovohata leyi nga exikarhi phephulu.

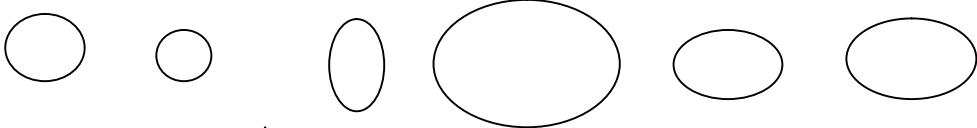
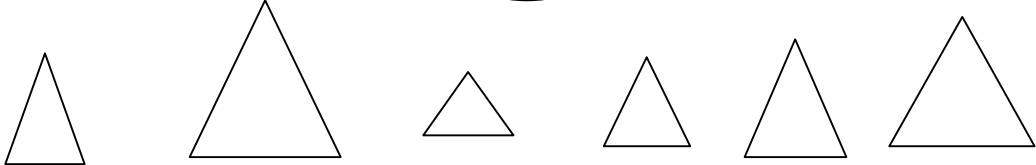
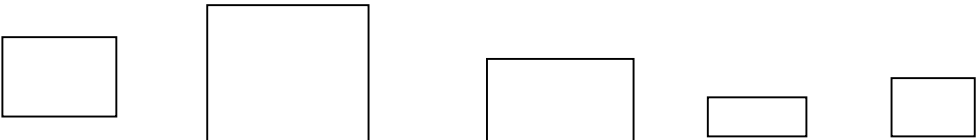


31. Langutisa nseve wun'wana na wun'wana kutani u tsala loko ku ri leswaku wu kombeterile ehenhla, ehansi, eximatsini kumbe exineneni.

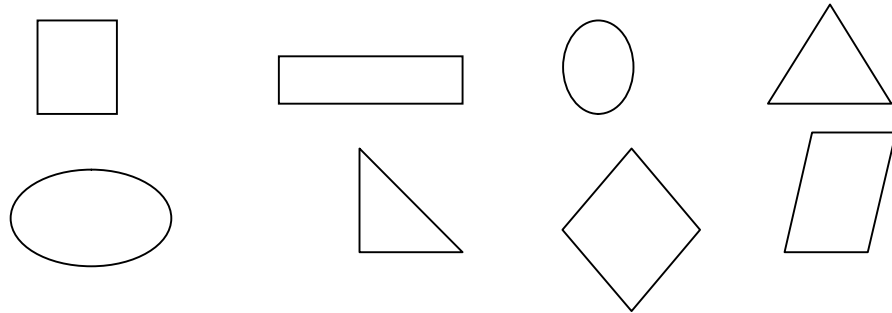
- a.  _____
- b.  _____
- c.  _____
- d.  _____

SWIVUMBeko.

32. Eka yin'wana na yin'wana ya mitlawa ya swivumbeko, hlovohata xivumbeko lexintsongo ngopfu hi xitshopani, xivumbeko leikulungopfu hi muhlovo wa rihlaza na xivumbeko xa vumbirhi hi muhlovo wo tshwuka.

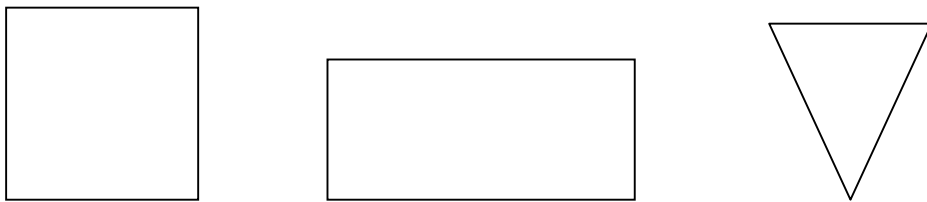
- a. 
- b. 
- c. 

33. Maraka swivumbeko leswi nga na mathelo yo olokathwixi hi "✓" na leswi swi nga na mathelo yo goveka hi "x".

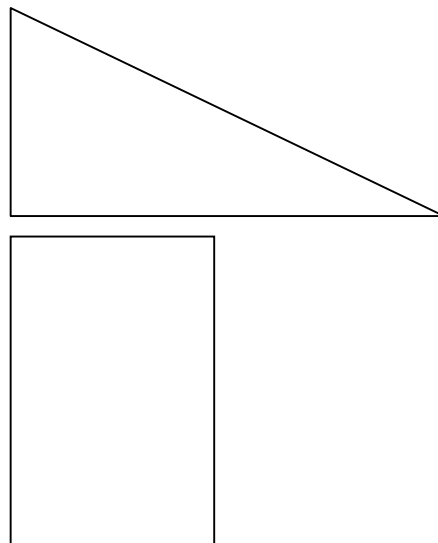


NTILA WA NDZINGANISO.

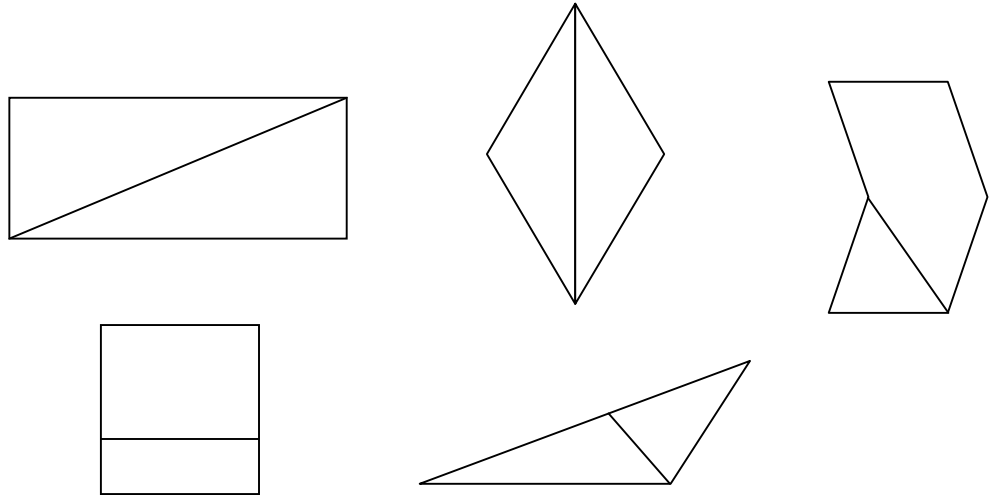
34. Dirowa ntila wa ndzinganiso eka xin'wana na xin'wana xa swivumbeko swa 2-D.



35. Dirowa xiphemu lexin'wana ku endla leswaku swivumbeko swi va na ntila wa ndzinganiso.

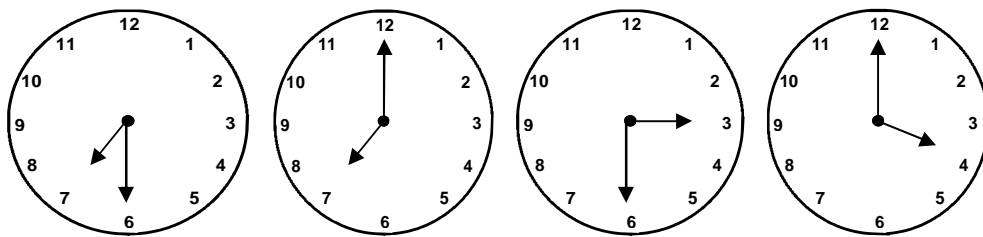


36. Maraka xivumbeko lexi nga na ntila wa ndzinganiso hi "✓".



NKARHI

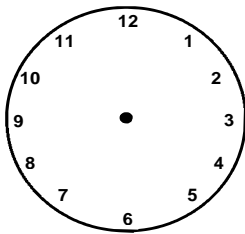
37. Tsala nkarhi lowu kombisiweke eka swikombankarhi leswi landzelaka.



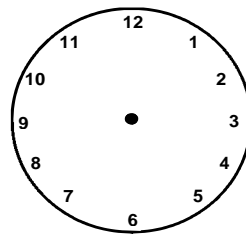
38. Hlamula swivutiso

- a. Ku ta va ku ri tingani masiku ma 3 endzhaku ka siku ro hetelela ra Sunguti? _____.
- b. Loko siku ra ku velekiwa ra Dumisani ri vile kona ntlhanu wa masiku ku nga si fika 23 Sunguti, swi vula leswaku siku ra yena ra ku velekiwa a ku ri hi tingani?
_____.
- c. Xana ku va ku hundzile masiku mangani hi siku ra vul ra Sunguti ku suka hi siku ra Khisimusike? _____.

39. Dirowa voko ro komba timinete na voko ro komba tiawara eka xin'wana na xin'wana xa ch swikombarhi leswaku u ta kombisa nkarhi lowu vuriweke.



Awara ya 12
ehenhla ka nhloko



Hafu ku bile awra ya 7

40. Vongi u sukile ekaya ku ya exikoweni hil awara ya 7 ehenhla ka nhloko nimixo. U vuyile ekaya hi awara ya 3 ehenhla ka nhloko ninzhengha. Xana i tiawara tingani leti a nga ri kon ekaya?

41. Hlayela nomboro ya tiawara

- a. Ku suka hi 8 ku fika hi 12. _____.
- b. Ku suka hi 1 ku fika hi 7. _____.
- c. Ku suka hi hafu ku bile awara ya 2 ku fika hafu ku bile awara ya 9. _____.
- d. Ku suka 4 ku fika hi hafu ku bile awara ya 12. _____.

VULEHI

42. Xiyisisa vulehi bya wun'wana na wun'wana wa mitila ya 5 leyi nga laha ehansi.

Ntila wa A _____

Ntila wa B _____

Ntila wa C _____

Ntila wa D _____





















Hlamula swivutiso ehandle ko pima mitila.

- a. Ntila wa _____ i wo leha ngopfu.
- b. Ntila wa _____ i wo koma ngopfu.
- c. Ntila _____ na ntila wa _____ yi komile ngopfu eka ntila wa D.

Matirhiselo ya vuxokoxoko bya tinhlayo

43. Ayisikhirimu leyi xavisiweke exiphaza.

Khiya:  xi yimela ayisikhirimu 1.

				
				
				
				
				
				
Musumbhu nuko	Ravumbi rhi	Ravunha rhu	Ravumun e	Ravuntlhanu

Langutisa girafu ya xifaniso laha henhla kutani u hlamula swivutiso.

- I siku rihi laha a ku xavisiwile tiayisikhirimu tintsongo ngopfu? _____.
- Nomboro ya ayisikhirimu leyi xavisiwekehi Musumbhunuko = _____.
- Nomboro ya ayisikhirimu leyi xavisiweke hi Ravumune = _____.

d. Ntsengo hinkwawo wa ayisikhirimu leyi xavisiweke =

_____.

e. Ayisikhirimu leyi xavisiweke hii Ravuntlhanu yi tlula leyi xavisiweke hi Ravumbirhi hi tingani? _____.

44. Hlayela swivumbeko kutani u hlovohata ntlawa wun'wana na wun'wana hi muhlovo wo hambana ku kombisa mixaka yo hambanahambana ya swivumbeko leyi nga kona.

