



**basic education**

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Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

# **IIMVAVANYO ZONYAKANONYAKA KUZWELONKE 2013**

## **IBANGA 2**

### **IMATHEMATIKA-ISIXHOSA IMIZEKELO YEMIBUZO**

**Le ncwadana inamaphepha angama- 20 ngaphandle koqweqwe**

## ISIKHOKELO SOKUSEBENZISA IMIZEKELO YOKUHLOLA KA-ANA

### 1. Isetyenziswa njani imizekelo yovavanyo

Nangona imizekelo yovavanyo yebanga ngalinye nesifundo ngasinye yenziwe yaza yadityaniswa, **akunyanzelekanga ukuba abafundi bayiphendulie yonke imibuzo ngexesha elinye. Utitshala makakhethe umzekelo onombuzo onxulumene nesifundo asilungiseleleyo.** Imibuzo ekhethwe kumzekelo vavanyo okanye iqela lemibuzo enokuphenduleka ngexesha elinye ingasetyenziswa ngokuyekukhula ukufunda nokufundisa ngolu hlobo:-

- 1.1 Ekuqaleni kwesifundo, njengovavanyo lokuqonda nokwahlula izinto abafundi abakwazi ukuzenza/abazaziyo nezo bangakwazi ukuzenza/bangazaziyo. **Ukuphonononga** lo mahluko kukhokhelela ekubeni abafundi **banikwe inkcazelo eyiyo**, ukuze kuphuhlise **izifundo ezifanelekileyo**, nezilungele ukulungisa ezo ngxaki banazo, ukuze abafundi **bacoselelwe ukufundiswa**.
- 1.2 Kwisifundo phakathi, uvavanyo olucwangcisiweyo lusetyenziswa ukuvavanya ukuba ulwazi nezakhono zabafundi ziyaphuhla na. Njengoko isifundo siqhuba lukwasetyenziswa ukuvavanya nokuqinisekisa ukuba akukho mfundi ushiyekayo kwisifundo.
- 1.3 Ukugqibezela isifundo okanye iqela lezifundo uvavanyo oludityanisiweyo luyenziwa ukuvavanya ukuba abafundi bayaqonda kwaye bayakwazi ukusebenzisa ulwazi nezakhono abazifumene kwizifundo. Inkcaza yokuba abafundi baqhuba njani mabayinikwe ngoko nangoko, ngelo xesha utitshala wenza isigqibo ngeendawo ezifuna ukuphindwa kwisifundo okanye kwizifundo ukuncedisa ulwazi okanye izakhono ezingaphuhlanga.
- 1.4 Kuwo onke la manqanaba makusetyenziswe iindlela ngeendlela zokubuza, umz. indlela yokuphendula ngokukhetha kwiimpindulo azinikiweyo, imibuzo efuna impindulo yakhe, imibuzo efuna impindulo 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).

### 2. Imemorandam okanye iindlela zokuphendula

Umzekelo wendlela yokuphendula okanye iimpindulo ezilindelekileyo zilungiselelwe kumzekelo wovavanyo. Ootitshala mabakhumbule ukubaimemorandam ayiniki impindulo igqibeleleyo, Imemorandam inika nje kuphela iimpindulo ezilindelekileyo, ngoko utitshala angamnika umfundi amanqaku ngeempindulo ezahlukeneyo, ezivumelekileyo ezinikwe ngabafundi.

### 3. Ukugutyungelwa kwekharithulam

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

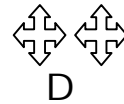
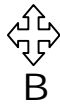
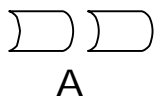
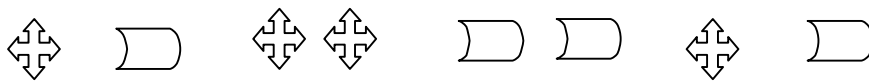
1.1 Yandisa “uphindaphindo” lwepateni yeemilo.



1.2 Zoba iimilo ezilandelayo kule pateni.



3. Biyela iimilo ezilandelayo kule pateni.

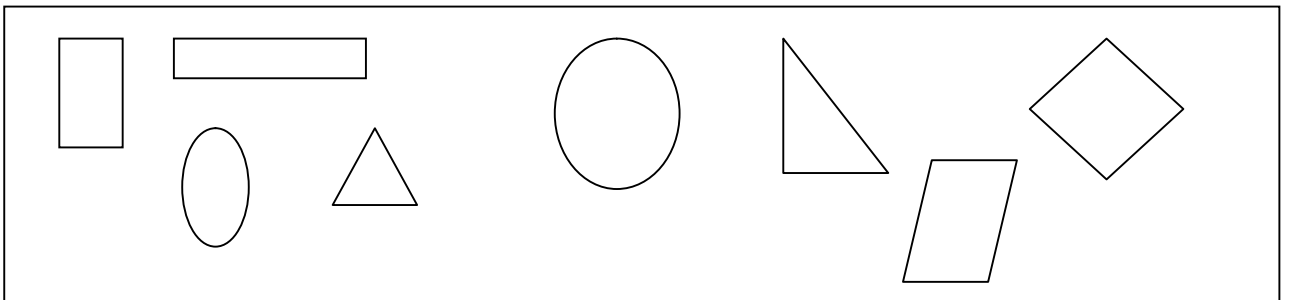


2.1 Zoba umgca ukudibanisa igama lento enokwakheka kuka 3-D kunye nomfanekiso ohambelana nayo.

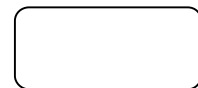
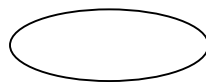
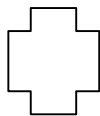
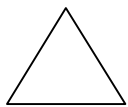


ityhubhu

2.2 Phawula iimilo ezinamacala athe tse ngo "✓" nezinamacala enza igophe ngo "x".



2.3 Phawula ngo "✓" imilo enomphetho othe tse.



3.1 Bhala isimboli yeli nani: ikhulu elinamashumi amathandathu anesithoba.

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3.2 Krwela umgca ukutshatisa inani kunye nagama lalo.

3.2.1 49 ishumi elinesibhozo

3.2.2 55 amashumi asixhenxe anesine

3.2.3 63 amashumi amahlanu anesihlanu

3.2.4 74 amashumi amane anethoba

3.2.5 18 amashumi amathandathu anesithathu

3.3 Khetha inani ebhokisini ngezantsi uze ulibhale ecaleni kwegama lalo.

101	100	110
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3.3.1 Ikhulu elinanye \_\_\_\_\_

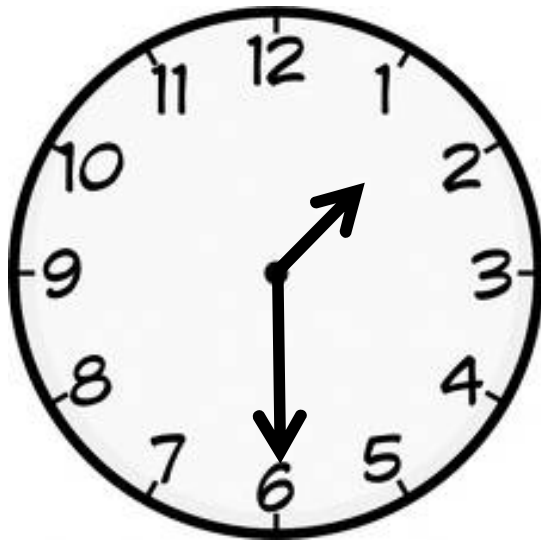
3.3.2 Ikhulu \_\_\_\_\_

3.3.3 Ikhulu elineshumi \_\_\_\_\_

4. Bhala phantsi igama leli nani: ama- 47.

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5.1 Bhala ixesha eliboniswa kwiiwotshi engezantsi.



Ixesha \_\_\_\_\_

5.2

Zoba usiba  
nosiba  
kwiiwotshi  
ukubonisa  
anikiweyo.

olubonisa imizuzu,  
olubonisa iiyure  
ezingezantsi  
amaxesha

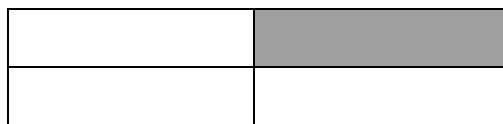
I ntsimbi yesi- 6 entloko  
yesi- 4

I cala emva kwentsimbi

5.3 UBongi uye esikolweni ekuseni ngentsimbi yesi- 7 entloko. Ufike ekhaya emalanga ngentsimbi yesi- 3 entloko. Zingaphi iiyure engekho ekhaya?

Uchithe iiyure ezi \_\_\_\_\_ engekho ekhaya.

6.1 Biyela unobumba onempendulo echanekileyo. Leliphi iqhezu lemilo elinombala?



- A 1 isithathu
- B 1 isiqingatha/ihafu
- C 1 ikota
- D 1 isihlanu

6.2 Phendula lo mbuzo ulandelayo.



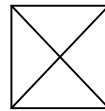
6.3

Le milo ingentla yohlulwe yangamacala a \_\_\_\_\_ alinganayo yaze i \_\_\_\_\_ yafakwa umbala.

Faka umbala kwiqhezu elixeliweyo phantsi kwemilo nganye.



isithathu



iikota ezi- 4

7.1 Bhala la manani uwanikiweyo ukusuka kwelona likhulu ukuya kwelona lincinci:

131            129            152            117            162  
\_\_\_\_\_



7.2. Landelelanisa la manani alandelayo uqala kwelona lincinci ukuya kwelona likhulu.

7.2.1 100                      110                      95                      90                      105

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7.2.2 51                      15                      105                      115                      5

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7.3      Biyela unobumba wempendulo echanekileyo.  
Ngawaphi amanani alandelelaniswe ukusuka kwelona likhulu ukuya kwelona lincinci?

A    64      12      40      21      80

B    80      64      40      21      12

C    21      40      80      64      12

D    80      64      21      12      40

8.1       $69 - 41 =$

A    28

B    82

C

D    72

8.2 Faka inani elishiyiweyo ukugqibezela ukudibanisa okuphindiweyo.

8.2.1  $27 + 2 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 33$

8.2.2  $31 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 43$

8.2.3  $16 + 10 \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

8.2.4  $19 + 6 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

8.3 Ukuba ama  $52 - 9 = 43$ , ngoko ama  $52 - 43 = \underline{\hspace{2cm}}$

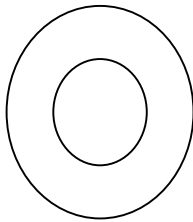
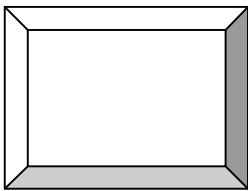
9.1 Jonga lo mfanekiso ongezantsi uze ufake uphawu "✓" kwimpendulo echanekileyo kwibhloko engezantsi kwawo.



t shebeleza	qengqeleka.
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I vili liya

9.2      Biyela into enokutshebeleza.

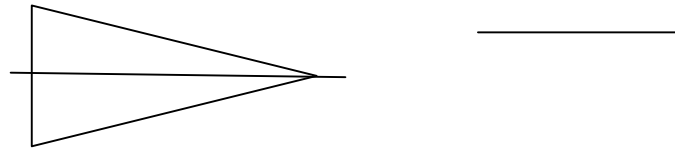


9.3      Zoba nantonina enokuqengqeleka nenokutshebeleza.

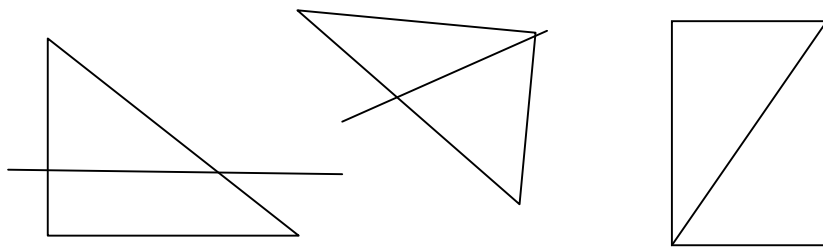
Into enokuqengqeleka.	Into enokutshebeleza.

10.      Phawula ngo "✓" imilo ebonisa umgca wolingano-macala ochanekileyo.

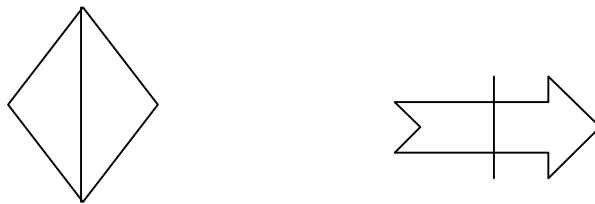
10.1



10.2



10.3



11.1 Gqibezela ezi pa teni zamanani zilandelayo:

11.1.1 66; 63; 60; \_\_\_\_\_; \_\_\_\_\_ ; \_\_\_\_\_

11.1.2 141; 145; 149; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

11.2 Faka inani elishiyiweyo.

11.2.1 162; \_\_\_\_\_; \_\_\_\_\_; 168, 170; \_\_\_\_\_

11.2.2 152; 155; \_\_\_\_\_; \_\_\_\_\_; 164; \_\_\_\_\_

12.1 Ixabiso lenani elinomgca ngaphantsi kweli nani- 81 ngama \_\_\_\_

12.2 Kweli nani- 73

12.2.1 Ixabiso lenani- 7 \_\_\_\_\_

12.2.2 Ixabiso lenani- 3 -----

13.1 Phinda kabini uze wahlule kabini ngokulinganayo ama- 29.

13.1. Phinda kabini 29= \_\_\_\_\_

13.2 I siqingatha sika- 29



13.2.1 Nika isiqingatha senani olunikiweyo.

I nani	I siqingatha senani
24	
16	
12	

13.2.2 Phinda kabini inani olinikiweyo.

I nani	I siphindwa senani
18	
10	
14	

13.3 Phinda kabini inani ngalinye kula alandelayo ngokubhala isivakalisi sokudibanisa amanani.

I sivakalisi samanani.

13.3.1 **6:**  $\square = \square + \square =$

13.3.2 **8:**  $\square = \square + \square =$

14.1 Fakela “mncinane kuna” okanye “mkhulu kuna” phakathi kwala manani ukugqibezela isivakalisi.

$$12 \underline{\hspace{10em}} 21$$

14.2 Faka: =, >, < phakathi kwamanani amabini ukwenza intetho echanekileyo.

14.2.1  $122 \underline{\hspace{2em}} 102$

14.2.2  $105 \underline{\hspace{2em}} 105$

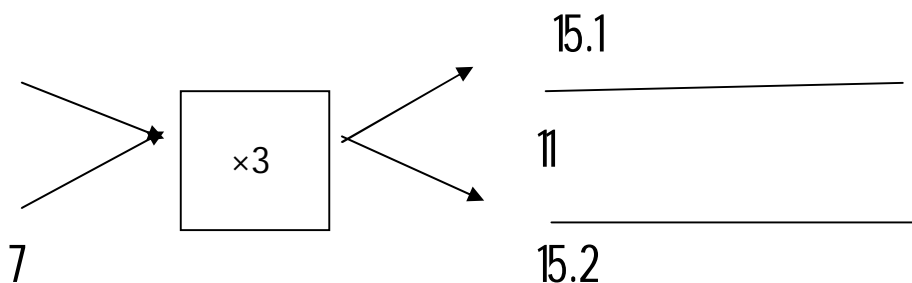
14.2.3  $101 \underline{\hspace{2em}} 110$

14.3 Biyela isimboli echanekileyo ukwenza ingxelo eyiyo.

14.3.1  $5 + 5 > = < 23$

14.3.2  $47 > = < 74$

15.1 Gqibezela lo mzobo.



15.2 Faka amanani ashiiweyo:

iimoto	1	3	5		9
amavili	4		20	24	

15.3 Bhala impendulo echanekileyo.

15.3.1  $2 \times 5 =$

15.3.2  $10 \times 4 =$

16.1 Fakela uphawu oluchanekileyo ukwenza esi sivakalisi sibe yinyani.

34  10 = 44

16.2 Biyela uphawu oluchanekileyo ukwenza esi sivakalisi sibe yinyani

23  10 = 13

17.1 Jonga le mifanekiso ingezantsi. uze ubiyele eyona nto inzima.



5 kg



1kg



2 kg

17.2 Landelelanisa ezi zinto zilandelayo ukusuka kweyona ilula ukuya kweyona inzima.



		
5kg	1kg	2kg

Into	Ubunz

17.3 Phawula ibhloko echanekileyo ngo (x).

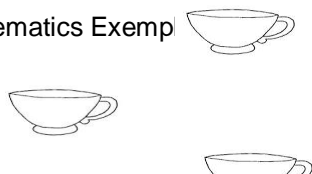
Isitena si 

nzima	lula
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 kune pensile

18. UBongani nabahlobo bakhe kufuneka bafake ama-apile angama- 38, abe- 4 kwipakethi nganye. Zingaphi iipakethi ezinokuzaliswa? ze kusale ama-apile amangaphi?

19. Umxube wobisi omnye wenziwa ziikomityi ezintathu zobisi. Zingaphi iikomityi zobisi ezifunekayo ukwenza imixube yobisi emi- 4



I mixube yobisi emi 4 ifuna iikomityi zobisi ezi \_\_\_\_\_ .

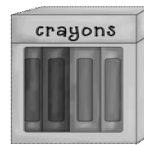
20. Funda la maxabiso angezantsi uze uphendule imibuzo elandelayo..



R12



R4



R8

USusan uthenga ibhola, iilekese ezi- 2 neekrayoni. Ubhatala nge R50 .engamaphepha. Yimalini itshintshi aza kuyifumana?

R\_\_\_\_\_

21. Zingaphi izikwere ezikulo mzobo ungezantsi?


































Inani lezikwere = \_\_\_\_\_

22. Mingaphi imilenze yeenkomo ezisi 9?



Iinkomo ezisithoba zinemilenze e \_\_\_\_\_.

23. Sebenzisa igrafu ukuphendula imibuzo elandelayo

Iincwadi ezifundwe ngabafundi aba 5						
Inani leencwad	10					
	9					
	8					
	7					
	6					
	5					
	4					
	3					
	2					
	1					
		Peter	Amy	John	Tshepo	Pam

a. Ngubani oyena ufunde iincwadi ezininzi?

\_\_\_\_\_

b. Zingaphi iincwadiezifundwe nguAmy no Pam zizonke?

\_\_\_\_\_

EWONKE: 30