



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

IIMVAVANYO ZONYAKA NONYAKA KUZWELONKE

IBANGA 3

IMATHEMATIKA-ISIXHOSA

ULUHLU 3: IPHEPHA ELINGUMZEKELO 2012



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REPUBLIC OF SOUTH AFRICA

IIMVAVANYO ZONYAKA NONYAKA KUZWELONKE

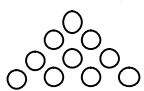



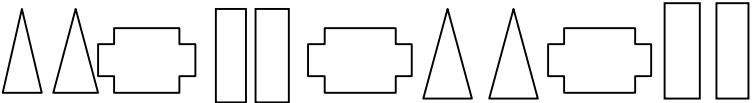
IBANGA 3 IMATHEMATIKA ULUHLU 3

IMEMORANDAM

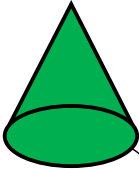


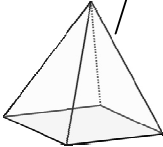
Imibu zo	limpendulo ezilindelekileyo	amanqaku	ewonke		
1.	a 550, 750, 850	1	3		
	b 499,496, 495	1			
	c 248, 256, 260	1			
2.	a 100, 150, 200, 250, 350, 450, 500, 550, 600, 650, 700, 750	2	10		
	b 123, 132, 135, 138, 144, 147, 150, 153, 156, 159, 162	2			
	c 496, 494, 492, 490, 486, 484, 482, 480, 476, 474, 470	2			
	d 210, 215, 220, 230, 235, 240, 245, 255, 265, 270, 275	2			
	e 313, 311, 308, 307, 306, 304, 303, 302, 301, 300	2			
3.	✓ ✓ ✓ +25, +25, 275, +25, 300, +25, 325, +25, ✓ 350, +25	1 1 1 1	4		
	4.	150		1	1
	5.	a 5		1	2
		b 20		1	
6.	a Amakhulu amane anamashumi asixhenxe anesithathu		2		
	b Amakhulu amabini anesine				
7.	a 269		2		
	b Amakhulu amabini anamashumi amathandathu anethoba				
8.	Amakhulu asixhenxe anesibhozo	1	1		

9.	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>Amakhulu amathathu anamashumi amathandathu ananye</p> <p>Amakhulu amabini aneshumi</p> <p>Amakhulu amathathu aneshumi elinesithandathu</p> <p>Ikhulu elinamashumi amathandathu</p> <p>Amakhulu amane anamashumi asibhozo anesithathu</p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>160</p> <p>483</p> <p>361</p> <p>316</p> <p>210</p> </div> </div>	1	1	1	1	5
10.	2, 6, 13, 28, 31	1	1			
11.	Indawo yesine	1	1			
12.	a <	1	3			
	b >	1				
	c <	1				
13.	B	1	1			
14.	a 167, 276, 366, 376, 613, 631	1	2			
	b 247, 422, 442, 472, 727, 742	1				
15.	a 670 okanye 600 + 70	1	2			
	b 7	1				
16.	a Amashumi	1	2			
	b Imivo	1				
17.	Yinyani	1	1			
18.	b	1	1			
19.	500 + 70 + 3 okanye	1	2			
	570 + 3 okanye 500 + 73	1				
	Yamkela neyiphi indlela					
20.	a 2 + 9 + 8	1	2			
	b Amakhulu+ amashumi+ imivo	1				

21.		1 1 1 1	4																
22.	317	1	1																
23.	<table border="1"> <thead> <tr> <th></th> <th>Inani eliphindiweyo</th> <th>inani</th> <th>lhafu yenani</th> </tr> </thead> <tbody> <tr> <td>a</td> <td>300</td> <td>150</td> <td>75</td> </tr> <tr> <td>b</td> <td>168</td> <td>84</td> <td>42</td> </tr> <tr> <td>c</td> <td>42</td> <td>21</td> <td>10 + 1 ihafu</td> </tr> </tbody> </table>		Inani eliphindiweyo	inani	lhafu yenani	a	300	150	75	b	168	84	42	c	42	21	10 + 1 ihafu	1 1 1 1	6
	Inani eliphindiweyo	inani	lhafu yenani																
a	300	150	75																
b	168	84	42																
c	42	21	10 + 1 ihafu																
24.		1	1																
25.	a 60	1	2																
	b 130	1																	
26.	Inani leziciko = $619 + 125 = 744$ Yamkela naluphi uhlobo lokubala	2	2																
27.	Inani lezitampu = $23 \times 4 = 92$ okanye $23 + 23 + 23 + 23 = 92$ Yamkela naluphi uhlobo lokubala	2	2																
28.	Inani leebhisikithi = $45 \div 4 = 11$ kushiyeke 1	2	2																
29.	Inani lamapetyu = $68 \div 2 = 34$	2	2																
30.	Inani leelelese = $35 \div 3 = 11$ kusale 2 Yamkela naluphi uhlobo lokubala	2	2																
31.	Inani lamapetyu = $125 - 82 = 43$																		

		Yamkela naluphi uhlobo lokubala	2	2
32.		Inani leemoto = $21 \times 5 = 105$ okanye $21 + 21 + 21 + 21 + 21 = 105$	2	2
33.	a	R1,30	1	9
	b	Imali echithiweyo = $R3,50 + R3,50 + R2,20 + R3,00 + R7,40 = R19,60$	2	
	c	$=R15 + R15 + R3,50 + R3,50 + R4,40 = R41,40$ Itshintshi = $R50 - R41,40 = R8,60$	4	
	d	$R60 \div R15 = 4$ okanye $R60 - R15 - R15 - R15 - R15 = 0$	2	
34.	a	R7,63	1	6
	b	R2,07	1	
	c	R5,79	1	
	d	263 c	1	
	e	615 c	1	
	f	425 c	1	
1.		Iphatheni, imisebenzi ne aljibra		4
	a		1	
	b		1	
	c		1	
d		1		
2.			1	1
		Yamkela neyiphi ipatheni		
3.	a	529, 530, 531	1	

		Kubalwa kusiyiwa phambili ngo 1	1	4												
	b	732, 730, 728 Kubalwa kusiyiwa emva ngoo 2	1													
4.			1	3												
		<table border="1"> <tr> <td>Inani leekasi</td> <td></td> <td></td> <td></td> <td>5</td> <td></td> </tr> <tr> <td>Inani leetoti</td> <td></td> <td></td> <td>75</td> <td></td> <td>150</td> </tr> </table>	Inani leekasi					5		Inani leetoti			75		150	1
Inani leekasi					5											
Inani leetoti			75		150											
			1													
5.	a	340, 350, 360 Bala usiya phambili ngoo10 – Yamkela neyiphi ipatheni elungileyo	1	4												
	b	503, 502, 501 Bala usiya emva ngoo 1 – Yamkela nayiphi ipatheni echanekileyo	1													
1.		Isithuba nesimo C	1	1												
2.		B no C	2	2												
3.	a	Iphiramidi engunxantathu	1	2												
	b	4	1													

4.		Iphiramidi	1	4
		Khowuni		
		Eluxande		
		Isilinda		
1.	UMLINGANISELO	1	2	
	a sentimitha, cm			
	b Mitha , m	1		
2.	a Epreli, Juni, Septemba, Novemba	2	7	
	b 365	1		
	c 4	1		
	d 52	1		
	e 12	1		
	f 45 (1 Meyi – 16 Juni)	1		
3.	a Cawe	1	4	
	b Lwesithathu	1		
	c Lwesibini	1		

	d	Mgqibelo	1																																	
4.		6	1	1																																
5.		Isinye kwisithathu	1	1																																
6.		Imizuzu elishumi phambi, 50 imizuzu	1	1																																
7.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>amacala</th> <th>uqikelelo</th> <th>Oyena mlinganiselo</th> </tr> </thead> <tbody> <tr> <td>a</td> <td>AB</td> <td></td> <td>6cm</td> </tr> <tr> <td>b</td> <td>BC</td> <td></td> <td>3cm</td> </tr> <tr> <td>c</td> <td>DC</td> <td></td> <td>6cm</td> </tr> <tr> <td>d</td> <td>AD</td> <td></td> <td>3cm</td> </tr> <tr> <td>e</td> <td>PQ</td> <td></td> <td>3cm</td> </tr> <tr> <td>f</td> <td>PR</td> <td></td> <td>5cm</td> </tr> <tr> <td>g</td> <td>QR</td> <td></td> <td>4cm</td> </tr> </tbody> </table> <p>Yamkela noluphi uqikelelo olusondele kumlinganiselo</p>		amacala	uqikelelo	Oyena mlinganiselo	a	AB		6cm	b	BC		3cm	c	DC		6cm	d	AD		3cm	e	PQ		3cm	f	PR		5cm	g	QR		4cm	1 1 1 1 1 1 1	7
	amacala	uqikelelo	Oyena mlinganiselo																																	
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g	QR		4cm																																	
8.	a	18 cm	1	2																																
	b	12 cm	1																																	
1.		<p>Ukusebenza ngolwazi Inani labafundi = 8, 8, 5, 5, 6</p> <div style="text-align: center;"> <table border="1" style="margin: 10px auto;"> <caption>Ubukhulu bezihlangu zabafundi</caption> <thead> <tr> <th>Ubukhulu bezihlangu</th> <th>Abafundi</th> </tr> </thead> <tbody> <tr> <td>isayizi 3</td> <td>8</td> </tr> <tr> <td>isayizi 4</td> <td>8</td> </tr> <tr> <td>isayizi 5</td> <td>5</td> </tr> <tr> <td>isayizi 6</td> <td>5</td> </tr> <tr> <td>isayizi 7</td> <td>6</td> </tr> </tbody> </table> </div> <p>Yamkela noba yeyiphi igrafu yesitena eyiyo</p>	Ubukhulu bezihlangu	Abafundi	isayizi 3	8	isayizi 4	8	isayizi 5	5	isayizi 6	5	isayizi 7	6		8																				
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isayizi 3	8																																			
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isayizi 5	5																																			
isayizi 6	5																																			
isayizi 7	6																																			
2.	a	25	1	5																																
	b	5	1																																	
	c	Ibhola yomnyazi	1																																	
	d	iqakamba	1																																	

	e	Ibhola ekhatywayo, ukudada	1	
3.	a	20	1	4
	b	ngoLwesihlanu	1	
	c	55	1	
	d	15	1	