



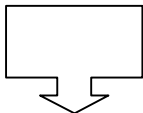
IIMVAVANYO ZONYAKA NONYAKA KUZWELONKE 2013
IBANGA 4 IMATHEMATIKA-ISIXHOSA
IMEMORANDAM

AMANQAKU: 50

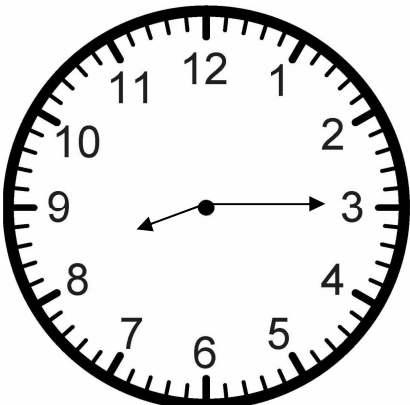
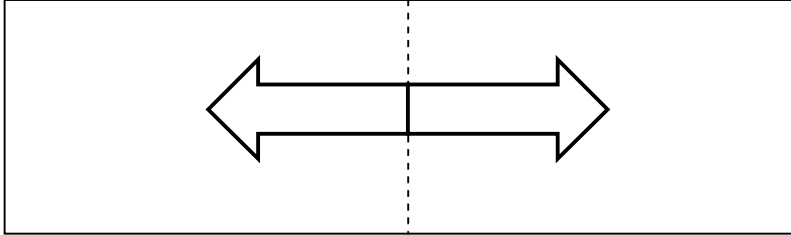
Le memorandam inamaphepha ama-5.

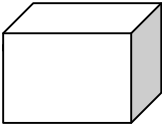
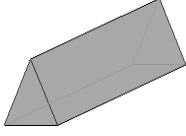
Amanqakwana okumakisha ngokubanzi.

1. Nika amanqaku apheleleyo ngempendulo kuphela, ngaphandle kokuba kuxeliwe.
2. Yamkela nayiphi imethodi echanekileyo engekho kwi memorandam.
3. CA uchaza ukuqhubeka ubala ngokuchanekileyo. (Bona ingcaciso kumbuzo we-6.1).

UMBUZO	IIMPENDULO EZICHANEKILEYO	INGCACISO	AMANQAKU	EWO-NKE
1.	1.1 C✓		1	6
	1.2 D✓		1	
	1.3 B✓		1	
	1.4 C✓		1	
	1.5 C✓		1	
	1.6 B✓		1	
2.	3 ✓		1	1
3.	3.1 4 975 5025 ✓	Nika amanqaku apheleleyo ukuba zombini iimpendulo zichanekile.	1	2
	3.2  ✓		1	
4.	4.1 $\frac{5}{5}$ okanye 1 ✓		1	2
	4.2 32 ✓		1	
5.	5.1 Isixa = R1,95 - R1,20 = R0,75 <u>okanye</u> 75c ✓	Nika amanqaku apheleleyo ukuba unike impendulo echanekileyo.	1	2
	5.2 Itotali yesixa = 10 × 75c = 750c <u>okanye</u> R7,50 ✓	Nika amanqaku apheleleyo ukuba impendulo uyinikile.	1	

UMBUZO	IIMPENDULO EZICHANEKILEYO	INGCACISO	AMANQAKU	EWO-NKE
6. 6.1	$3\ 456 + 2\ 909$ $= 3\ 000 + 400 + 50 + 6 + 2\ 000 + 900 + 9$ $= 3\ 000 + 2\ 000 + 400 + 900 + 50 + 6 + 9 \quad \checkmark$ $= 5\ 000 \quad + 1\ 300 \quad + 50 + 15$ $= 6\ 365 \quad \checkmark$ <p style="text-align: center;">okanye</p> $6 + 9 = 15$ $\text{nama} \quad 50 + 0 = 50$ $\text{nama} \quad 400 + 900 = 1\ 300$ $\text{nama} \quad 3\ 000 + 2\ 000 = 5\ 000 \quad \checkmark$ $\text{isiphumo} \quad 3\ 450 + 2\ 900 = 6\ 365 \quad \checkmark$ <p style="text-align: center;">okanye</p> $3\ 456 + 2\ 000 \rightarrow 5\ 456 + 900 \rightarrow 6\ 356 + 9 \rightarrow 6\ 365$	Imethodi : 1 inqaku Impendulo : 1 inqaku Sebenzisa uqhubeko oluchanekileyo CA	2	
6.2	$13 - 4 = 9$ $\text{nama} \quad 20 - 0 = 20$ $\text{nama} \quad 400 - 100 = 300 \quad \checkmark \checkmark$ $\text{nama} \quad 5\ 000 - 2\ 000 = 3\ 000$ $\text{isiphumo} \quad 5\ 433 - 2\ 104 = 3\ 329 \quad \checkmark$ <p style="text-align: center;">okanye</p> $5\ 433 - 2\ 104$ $= 5\ 000 - 400 - 30 - 3 - 2\ 000 - 100 - 4$ $= 5\ 000 - 2\ 000 - 400 - 100 - 20 - 13 - 4 \quad \checkmark \checkmark$ $= 3\ 000 \quad - 300 \quad - 20 \quad - 9$ $= 3\ 329 \quad \checkmark$ <p style="text-align: center;">okanye</p> $5\ 433 - 2\ 000 \rightarrow 3\ 433 - 100 \rightarrow 3\ 333 - 4 \rightarrow 3\ 329$	Imethodi : 2 amanqaku Impendulo : 1 inqaku Sebenzisa CA	3	
6.3	$78 \times 42 = 78 \times 7 \times 6 \quad \checkmark \quad \text{okanye} \quad 78 \times 42 = 78 \times 6 \times 7 \quad \checkmark$ $= 546 \times 6 \quad \checkmark \quad = 468 \times 7 \quad \checkmark$ $= 3\ 276 \quad \checkmark \quad = 3\ 276 \quad \checkmark$ <p style="text-align: center;">okanye</p> $78 \times 42 = 78 \times (40 + 2) \quad \text{okanye} \quad 42 \times (70 + 8)$ $= (78 \times 40) + (78 \times 2) \quad \checkmark \quad = (42 \times 70) + (42 \times 8) \quad \checkmark$ $= 3\ 120 + 156 \quad \checkmark \quad = 2\ 940 + 336 \quad \checkmark$ $= 3\ 276 \quad \checkmark \quad = 3\ 276 \quad \checkmark$	Imethodi : 2 amanqaku Impendulo : 1 inqaku Sebenzisa CA	3	
6.4	$654 \div 6 = (600 + 54) \div 6 \quad \checkmark$ $= (600 \div 6) + (54 \div 6) \quad \checkmark$ $= 100 + 9$ $= 109 \quad \checkmark$	Imethodi: 2 amanqaku Impendulo: 1 inqaku	3	

UMBUZO	IIMPENDULO EZICHANEKILEYO	INGCACISO	AMANQAKU	EWO-NKE
	<p>okanye</p> $654 \div 6 = 654 \div 2 \div 3 \checkmark$ $= 327 \div 3 \checkmark$ $= 109 \checkmark$ <p>okanye</p> $654 \div 6 = 654 \div 3 \div 2 \checkmark$ $= 218 \div 2 \checkmark$ $= 109 \checkmark$	Sebenzisa CA		11
7.	$1\ 613 - 859 = 754 \checkmark$		1	1
8.		<p>Usiba olunde malwalathe ku 3.</p> <p>Usiba olufutshane malwalathe phakathi kuka 8 no 9.</p>	1	1
9.	9.1 SAA 769 okanye BA 172 \checkmark	Yamkela ibe nye okanye zombini iimpendulo.	1	2
	9.2 SAA 372 \checkmark		1	
10.	B2 okanye 2B \checkmark	Yamkela ibe nye kwezi mpendulo zichanekileyo.	1	1
11.		Ireflekshini esekunene: 1 inqaku	1	1
12.	12.1 $1\ 248\ cm \checkmark$	Impendulo : 1 inqaku kwimpendulo	1	
	12.2 $1\ iyure\ 20\ imizuzu \checkmark$		1	

UMBUZO	IIMPENDULO EZICHANEKILEYO	INGCACISO	AMANQAKU	EWO-NKE										
		nganye echanekeleyo.		2										
13.	44 ✓		1	1										
14.	2 / - 500 m/ = 2 000 m/ - 500 m/✓ = 1 500 m/ ✓	2 000 m/: 1 inqaku Impendulo : 1 inqaku	2	2										
15.	15.1 = ✓		1	4										
	15.2	Yamkela iibloko zokugqibela ezi 3 ezifakwe umbala.	1											
	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="4">1</td> </tr> <tr> <td colspan="2">$\frac{1}{2}$</td> <td colspan="2">$\frac{1}{2}$</td> </tr> <tr> <td>$\frac{1}{4}$</td> <td>$\frac{1}{4}$</td> <td>$\frac{1}{4}$</td> <td>$\frac{1}{4}$</td> </tr> </table>				1				$\frac{1}{2}$		$\frac{1}{2}$		$\frac{1}{4}$	$\frac{1}{4}$
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$\frac{1}{2}$		$\frac{1}{2}$												
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$											
	15.3		1											
	15.4 $\frac{1}{4}$ okanye 1 kota (<i>quarter</i>) ✓		1											
16.	16.1 Ipentagoni/unkalo-ntlanu ✓		1	2										
	16.2 ucala-ne/Quadrilateral ✓		1											
17.	Imilo	Igama lemilo	Imilo yeembuso	2										
		<u>Ityubhu</u> ✓	Izikwere											
		Iprizim enxantathu	litrayengile nee <u>rekhthengile</u> ✓											

UMBUZO		IIMPENDULO EZICHANEKILEYO		INGCACISO	AMANQAKU	EWO-NKE
18.	18.1	Uhlobo lomdlalo	Iimpawu zethali			
		Igalufa (Golf)	II ✓			
		Ibaseball (Baseball)	IIII - II ✓			
		Intenetya (Tennis)	IIII ✓			
	18.2	✓Ibhola ekhatywayo (Soccer)			3	
	18.3	5 ✓			1	5
19.		5 ✓✓			2	2
					AMANQAKU:	50