



Province of the
EASTERN CAPE
EDUCATION

IBAKALA ELIPHEZULU

IBANGA 7

NOVEMBA 2017

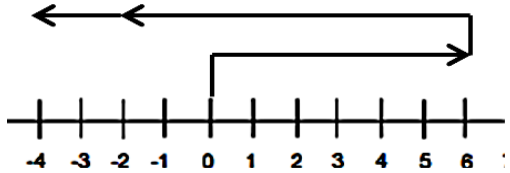
**IZIBALO
ISIKHOKELO SOKUKOREKISHA**

AMANQAKU: 100

Esi sikhokelo sokukorekisha sinamaphepha ayi 7.

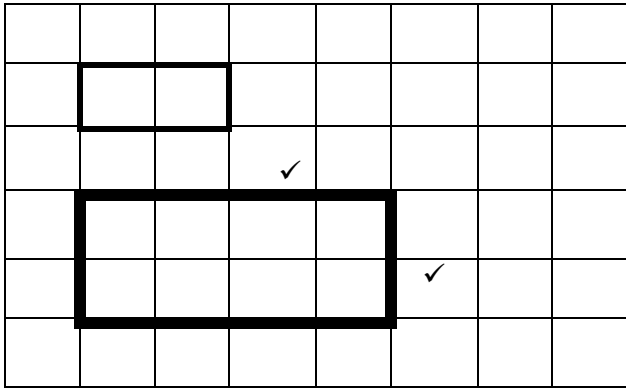
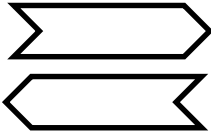
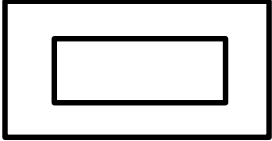
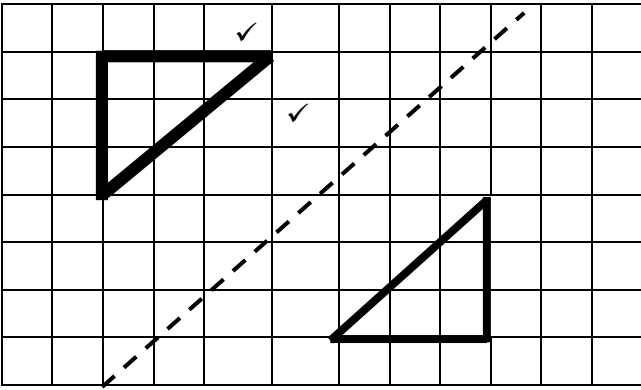
IMIYALELO YOKUKOREKISHA

1. Nika amanqaku apheleleyo ngeempendulo kuphela, ngaphandle kokuba uxelelwe.
2. Yamkela nayiphi impendulo echanekileyo nokuba ayikho kwisikhokelo sokukorekisha.
3. UCA uthetha ukuqhubeka ubala ngokuchanekileyo.

Imibuzo	limpendulo ezilindelekileyo	Ingcaciso	Amanqaku
1.	1.1 A / 9 348 000 ✓		1
	1.2 B / six tenth ✓		1
	1.3 D / 20 ✓		1
	1.4 B / ✓		1
	1.5 C / 12 ✓		1
	1.6 B / 1; 2; 4; 5; 10; 20 ✓		1
	1.7 A / 8 ✓		1
	1.8 C / 12 ✓		1
	1.9 C / Itrayengile eyi ekhwilatherali (Equilateral triangle) ✓		1
	1.10 B / -2 ✓		1
2.	17 ✓		1
3.	3.1 -4 ✓ 	Umfundi makabonise iidayagram kungca manani.	1
	3.2 8 okanye +8 ✓		1
4.	4.1 $x = 9$ ✓		1
	4.2 $x = 50$ ✓		1
5.	5.1 $\frac{4}{5} \times 3\frac{1}{3}$ $= \frac{4}{5} \times \frac{10}{3}$ $= \frac{40}{15}$ ✓ $= 2\frac{10}{15}$ ✓ $= 2\frac{2}{3}$	Yamkela naluphi uhlobo lubalo oluchanekileyo. Sebenzisa uCA	2
	5.2 $\begin{array}{r} 324,348 \\ + 17,879 \\ \hline 342,227 \end{array}$ ✓ $\begin{array}{r} 342,227 \\ - 6,507 \\ \hline 335,720 \end{array}$ ✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2
	5.3 $\frac{0,048}{8}$ $= 0,006$ ✓✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2

5.4	$\sqrt{144} - 2^4 - 4 + \sqrt[3]{27}$ $= 12 - 16 - 4 + 3$ $= -4 - 4 + 3 \checkmark$ $= -8 + 3 \checkmark$ $= -5 \checkmark$	Yamkela naluphi uhlobo lobalo oluchanekileyo. Apply CA	3																		
5.5	$\text{Idiskhawunti} = R600 - R324 = R276$ $\% \text{ yediskhawunti} = \frac{276}{600} \times \frac{100}{1}$ $= \frac{276}{6} \checkmark$ $= 46\% \checkmark$	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2																		
5.6	$\frac{5}{8} \times \frac{32}{1} = 20 \text{ amakhwenkwe} \checkmark$ $\frac{3}{8} \times \frac{32}{1} \checkmark = 12 \text{ amantombazana} \checkmark$	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	3																		
5.7	$\text{Unyaka 1: } 5\% \text{ ye } R1\ 500$ $\frac{5}{100} \times \frac{1\ 500}{1} = R75 \checkmark \times 2 \text{ iminyaka} = R150 \checkmark$ $R\ 1\ 500 + R150 = R\ 1\ 650 \checkmark$	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	3																		
5.8	$12 \div 2 = 6 \checkmark \div 2 = 3 \text{ iminyaka ubudala} \checkmark$		2																		
6.	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>INANI LEETHAYILE EZIMNYAMA (BLACK TILES)</th> <th>INANI LEETHAYILE EZIMHLOPHE (WHITE TILES)</th> </tr> </thead> <tbody> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>7</td></tr> <tr><td>3</td><td>9</td></tr> <tr><td>4</td><td>(6.1) 11 \checkmark</td></tr> <tr><td>5</td><td>13</td></tr> <tr style="background-color: #cccccc;"><td></td><td></td></tr> <tr><td>(6.2) 50 \checkmark</td><td>103</td></tr> <tr><td>n</td><td>(6.3) 2n + 3 \checkmark</td></tr> </tbody> </table>	INANI LEETHAYILE EZIMNYAMA (BLACK TILES)	INANI LEETHAYILE EZIMHLOPHE (WHITE TILES)	1	5	2	7	3	9	4	(6.1) 11 \checkmark	5	13			(6.2) 50 \checkmark	103	n	(6.3) 2n + 3 \checkmark		3
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(6.2) 50 \checkmark	103																				
n	(6.3) 2n + 3 \checkmark																				
6.4	Isibini siphindaphindwe (two multiplied) ngenani leethayile ezimnyama plas uthri olingana (is equal to) nenani leethayile ezimhlophe. $\checkmark\checkmark$	Sebenzisa uCA	2																		

7.				2
8.	8.1	Ixabiso lika x - (<i>value</i>) uliphinde kabini (times two) lilingana nexabiso lika y (is equal to the y - <i>value</i>).✓✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2
	8.2	$x \times 2 = y$ ✓✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2
9.	9.1	27✓		1
	9.2	24✓		1
10.		$1 \times 1 = 16$ $2 \times 2 = 9$ $3 \times 3 = 4$ $4 \times 4 = 1$ $16 + 9 + 4 + 1 = 30$ ✓✓	17 nangaphezulu inqaku 1. 30 amanqaku apheleleyo	2
11.	11.1	9 iiyure (<i>hours</i>) ✓		1
	11.2	25 mm ✓		1
	11.3	Linear ✓		1
	11.4	50 mm. ✓ Ukuhlobana kwayo kuliniya (It's a linear relationship) no ✓ kuqhubeka ngokunyuka nge 5 mm (it has a constant increase of 5 mm).		2
12.		$x \times 8 = R920$ ✓ $= R920 \div 8$ $x = R115$ ✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2
13.		<i>Angle B</i> = 90° ; <i>Angle A</i> = 45° ; <i>Angle C</i> = 45° ✓ Ii - engile A no B zii-engile ezikhomplimentari (are complementary angles) ✓		2
14.	14.1	B ✓		1
	14.2	C ✓		1
	14.3	D ✓		1
	14.4	A ✓		1
	14.5	Silinda (<i>Cylinder</i>) ✓		1

15.				2
16.	 <p>Zikhongruwenti (Congruent) ✓</p>	 <p>Ziyafana (Similar) ✓</p>		2
17.				2
18.	18.1	$\overleftrightarrow{GB} \perp \overleftrightarrow{AC}$ ✓		1
	18.2	$\overleftrightarrow{AC} \parallel \overleftrightarrow{DF}$ ✓		1
	18.3	90° ✓		1
	18.4	Right angle / ✓		1
	18.5	$\widehat{AED} = 30^\circ$ ✓ Kuba (Because) $\widehat{BEA} + \widehat{AED} = 90^\circ$ ✓ Complementary Angles = 90° ✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	3
19.	$a = 80^\circ$ ✓ Zombini (Both are) zi-akthyuthi angles zika 80° kwaye yimilo (shape) efanayo etransleythayo (that translates). ✓			2

20.	$P = 35\text{ mm} + 10\text{ mm} + 25\text{ mm} + 20\text{ mm} + 25\text{ mm} + 10\text{ mm} + 35\text{ mm} + 40\text{ mm} = 200\text{ mm}$ ✓✓		Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2
21.	21.1	Total surface area – sum of the areas of the six rectangles: $A = [(5 \times 2) + (5 \times 2) + (5 \times 4) + (5 \times 4) + (4 \times 2) + (4 \times 2)]m^2$ ✓ $= 10\text{ m}^2 + 10\text{ m}^2 + 20\text{ m}^2 + 20\text{ m}^2 + 8\text{ m}^2 + 8\text{ m}^2$ ✓ $= 76\text{ m}^2$ ✓✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	4
	21.2	Inani leelitha zepeyinti ezifunekayo (Number of litres of paint needed): $126\text{ m}^2 \div 6\text{ m}^2/\ell = 21\text{ l}$ ✓	Yamkela naluphi uhlobo lobalo oluchanekileyo. Sebenzisa uCA	2
22.	$Volume = l \times b \times h$ ✓ $= 30\text{ mm} \times 30\text{ mm} \times 30\text{ mm}$ ✓ $= 27\,000\text{ mm}^3$ ✓ $= 27\text{ cm}^3$ ✓			4
23.	23.1	20 abafundi ✓		1
	23.2	$38 - 10 = 28$ ✓		1
	23.3	75% ✓✓		2
	23.4	24,7 ✓✓		2
24.	$\frac{1}{6}$ ✓			1
25.	25.1	R30 ✓		1
	25.2	37,5% ✓		1
	25.3	3 : 5 ✓		1
			EWONKE:	100