



Province of the
EASTERN CAPE
EDUCATION

IBAKALA ELIPHAKATHI

IBANGA 6

NOVEMBA 2017

**IMATHEMATIKA
ISIKHOKELO SOKUKOREKISHA**

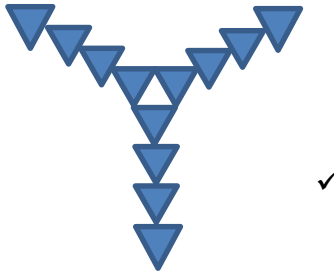
AMANQAKU: 75

Esi sikhokelo sokukorekisha sinamaphepha asi 8.

IMIGAQO YOKUKOREKISHA

1. Nika amaqaku apheleleyo ngeempendulo kuphela, ngaphandle kokuba ucaciselwe.
2. Yamkela naluphi uhlobo lobalo, iimpendulo ezichanekileyo enokwenzeka ingabikho kule memorandam.

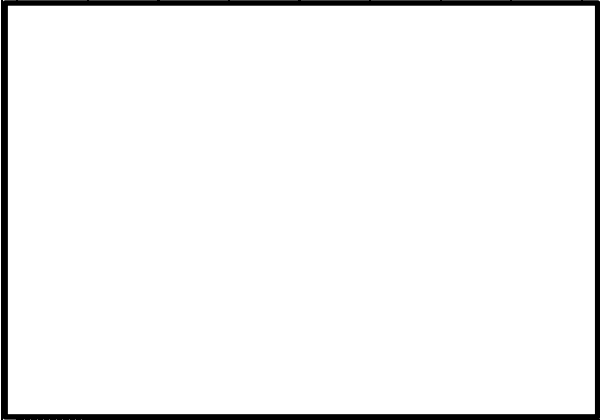
Imibuzo		Iimpendulo ezilindelekileyo	Ingcaciso	Amanqaku
1.	1.1	C ✓		1
	1.2	A ✓		1
	1.3	D ✓		1
	1.4	B ✓		1
	1.5	A ✓		1
	1.6	D ✓		1
	1.7	D ✓		1
	1.8	C ✓		1
	1.9	A ✓		1
	1.10	B ✓		1

2.	4 iilitha (litres) nge20 km 180 km = 20km x 9 ✓ Ngoko 4 ℓ x 9 = 36 ℓ✓ 36 iilitha (litres) ezisetyenziswa kwi180 km. ✓			Yamkela naluphi uhlobo lobalo oluchanekileyo	3
3.	764 000 ✓				1
4.	$\frac{1}{4}; \frac{2}{5}; \frac{1}{2}; \frac{2}{3}$ ✓✓				2
5.	Inkosikazi yakhe ifumana i $\frac{1}{2}$ ka124 yeenkomo = $\frac{1}{2}$ x 124 = 62 yeenkomo ✓ Unyana wakhe ufumana i $\frac{1}{4}$ ka124 = $\frac{1}{4}$ x 124 = 31 yeenkomo ✓ Intombi yakhe ifumana 124 – (62 + 31) = 124 – 93 = 31 <i>yeenkomo</i> ✓			Yamkela naluphi uhlobo lobalo oluchanekileyo.	3
6.	6.1				1
	6.2	Yongeza 3 yeetrayengile ezincinci kwistep ngasinye ✓✓ okanye + 3			2
	6.3	6.3.1	30 ✓		1
		6.3.2	100 ✓		1
7.	567,38 – 197,2 $\begin{array}{r} 567,38 \\ - 197,20 \\ \hline = 370,18 \end{array}$ ✓			Yamkela naluphi uhlobo lobalo oluchanekileyo	1

8.	8.1	<div>456 954</div> <div>+ 364 637</div> <div>= 821 591 ✓✓</div> <div>OKANYE</div> <div>(400 000 + 300 000) + (50 000 + 60 000) + (6 000 + 4 000) + (900 + 600) + (50 + 30) + (4 + 7) ✓ = 700 000 + 110 000 + 10 000 + 1 500 + 80 + 11 = 821 591 ✓</div>	1 inqaku ngempendulo kwakhona 1 inqaku ngokulandelelanisa ngokuchanekileyo amaxabiso eendawo zamanani (place values). Yamkela naluphi uhlobo lobalo oluchanekileyo.	2																																																				
	8.2	<div>639 742</div> <div>- 520 834 ✓</div> <div>= 118 908 ✓</div> <div>OKANYE</div> <div>(600 000 - 500 000) + (30 000 - 20 000) + (8 000 - 0 000) + (1 700 - 800) + (30 - 30) + (12 - 4) = 100 000 + 10 000 + 8 000 + 900 + 00 + 8 = 118 908</div>	1 inqaku ngempendulo kwakhona 1 inqaku ngokulandelelanisa ngokuchanekileyo amaxabiso eendawo zamanani (place values). Yamkela naluphi uhlobo lobalo oluchanekileyo.	2																																																				
	8.3	<div>2 359</div> <div>x 275</div> <div>11 795 ✓</div> <div>165 130</div> <div>+ 471 800 ✓</div> <div>= 648 725 ✓</div> <div>OKANYE</div> <div><table><tr><td></td><td></td><td>2</td><td>3</td><td>5</td><td>9</td><td>x</td><td></td></tr><tr><td></td><td></td><td>0</td><td>4</td><td>0</td><td>6</td><td>1</td><td>0</td><td>1</td><td>8</td><td>2</td></tr><tr><td></td><td></td><td>1</td><td>4</td><td>2</td><td>1</td><td>3</td><td>5</td><td>6</td><td>3</td><td>7</td></tr><tr><td></td><td></td><td>1</td><td>0</td><td>1</td><td>5</td><td>2</td><td>5</td><td>4</td><td>5</td><td>5</td></tr><tr><td>6</td><td>4</td><td>8</td><td>7</td><td>2</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr></table></div>			2	3	5	9	x				0	4	0	6	1	0	1	8	2			1	4	2	1	3	5	6	3	7			1	0	1	5	2	5	4	5	5	6	4	8	7	2	5						Naluphi uhlobo lobalo oluchanekileyo lwamkelekile.	3
		2	3	5	9	x																																																		
		0	4	0	6	1	0	1	8	2																																														
		1	4	2	1	3	5	6	3	7																																														
		1	0	1	5	2	5	4	5	5																																														
6	4	8	7	2	5																																																			

8.4	$ \begin{array}{r} 3\,375 \div 125 \\ \underline{. \quad . \quad 27} \\ 125 \overline{) 3\,375} \\ \underline{2\,50} \\ 875 \\ \underline{875} \\ \dots \end{array} $ $3\,375 \div 125 = 27 \checkmark \checkmark \checkmark$ <p style="text-align: right;">OKANYE</p> $3\,375 \div 125 =$ $ \begin{array}{r} 3\,375 \\ \underline{- 1\,250} \quad 125 \times 10 \\ 2\,125 \\ \underline{- 1\,250} \quad 125 \times 10 \\ 875 \\ \underline{- 875} \quad 125 \times 7 \\ \dots \\ 3\,375 \div 125 = 27 \end{array} $	Naluphi uhlobo lobalo oluchanekileyo lwamkelekile.	3
8.5	$ \begin{aligned} &3\frac{3}{4} + 5\frac{1}{2} - 3\frac{3}{8} \\ &= (3 + 5 - 3) \checkmark + \left(\frac{3}{4} + \frac{1}{2} - \frac{3}{8}\right) \checkmark \\ &= 5 + \left(\frac{3 \times 2}{4 \times 2} + \frac{1 \times 4}{2 \times 4} - \frac{3}{8}\right) \\ &= 5 + \left(\frac{6}{8} + \frac{4}{8} - \frac{3}{8}\right) \\ &= 5 + \left(\frac{10}{8} - \frac{3}{8}\right) \\ &= 5\frac{7}{8} \checkmark \end{aligned} $ <p style="text-align: right;">OKANYE</p> $ \begin{aligned} &3\frac{3}{4} + 5\frac{1}{2} - 3\frac{3}{8} \\ &= 5 + \left(\frac{15}{4} + \frac{11}{2} - \frac{27}{8}\right) \checkmark \\ &= \left(\frac{15 \times 2}{4 \times 2} + \frac{11 \times 4}{2 \times 4} - \frac{27}{8}\right) \\ &= \frac{30}{8} + \frac{44}{8} - \frac{27}{8} \checkmark \\ &= \frac{74}{8} - \frac{27}{8} \\ &= \frac{47}{8} \\ &= 5\frac{7}{8} \checkmark \end{aligned} $	1 inqaku ngempendulo kwakhona and 2 amanqaku ngokubala. Yamkela naluphi uhlobo lobalo oluchanekileyo	3

	8.6	214 ÷ 2 × (14 – 9) 107 × 5 ✓ = 535 ✓			2
9.	9.1	10 kℓ ✓			1
	9.2	9.2.1	$\frac{100 \ell}{10 \ell} \checkmark = 10 \text{ amaxesha} \checkmark$		2
		9.2.2	100 ℓ x 25 ✓ = 2 500 ℓ ezithathwe etankini ✓		2
10.	$\frac{5}{8} \checkmark \times 40 \checkmark$ = 5 × 5 = 25 amantombazana ✓			1 inqaku: (5 + 3 = 8) 1 inqaku: uhlobo lobalo 1 inqaku: Impendulo	3
11.	24 ✓				1
12.	2 000 ✓			1 inqaku: Impendulo	1
13.	5 ✓			1 inqaku: Impendulo	1
14.	14.1	Square-based pyramid ✓		1 inqaku: Impendulo	1
	14.2	5 ✓		1 inqaku: Impendulo	1
	14.3	5 ✓		1 inqaku: Impendulo	1
15.	15.1	60% ✓		1 inqaku: Impendulo	1
	15.2	$\frac{3}{4} \checkmark$		1 inqaku: Impendulo	1
	15.3	R75 – R60 = R15 ethotywe ngayo ✓ $\frac{R15 \div 15}{R75 \div 15} \times 100$ $\frac{1}{5} \times 100 = 20\% \checkmark$		Yamkela naluphi uhlobo lobalo oluchanekileyo.	2
16.	16.1	6 iitrayengile (triangles) ✓		1 inqaku: Impendulo	1
	16.2	Engile 1 (Angle 1): I-engile e-Aktyhuthi (Acute angle) ✓		1 inqaku: Impendulo	1

17.		4 iitrayisekile (tricycles) ne 4 yeebhayisekile (bicycles) ✓✓ OKANYE 2 iitrayisekile (tricycles) ne 7 yeebhayisekile (bicycles) OKANYE 6 iitrayisekile (tricycles) ne 1 yeebhayisekile (bicycle)	2 amanqaku: Ipendulo	2
18.	18.1	08:15 – 01: 15 = 7 yeeyure ✓	1 inqaku: Ipendulo	1
	18.2	03:50 ✓		1
19.	19.1	12 yunithi (units) ✓		1
	19.2			2
20.	F7; F8; E8 ✓		1 inqaku: Naziphi iiseli (cells) eziyi 2 esichanekileyo.	1
21.	21.1	$\frac{3}{4} \times 240 = 180$ ✓ U-Awonke uneenkonkxa ezili 120 ukuze abe ne180 udinga 60 ngaphezulu. Kufuneka adibanise noChris. OKANYE Makadibanise noLwazi, noVusi kunye noDannie ✓		2
	21.2	$\frac{60}{240} \times 100 \checkmark = 25\% \checkmark$		2
	21.3	$\frac{30}{240} \checkmark = \frac{1}{8} \checkmark$		2
22.	$\frac{1}{6} \checkmark$			1
EWONKE:				75