education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

PROVINCIAL ASSESSMENT

GRADE 6

**MATHEMATICS
JUNE 2024
MARKING GUIDELINES**
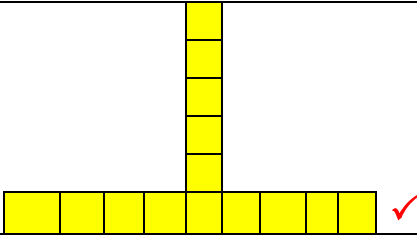
MARKS: 50

TIME : $1\frac{1}{2}$ hour

These marking guidelines consist of 5 pages.

GENERAL MARKING NOTES
- Give full marks for answers only, unless stated otherwise.
- Accept any alternative, correct solutions that are not included in the marking guideline.

QUESTION	Number	Expected Answer	Clarification	Mark Allocation	Cognitive Levels
QUESTION 1	1.1	A ✓	1 mark for the correct answer	(1)	RP
	1.2	D ✓	1 mark for the correct answer	(1)	K
	1.3	C ✓	1 mark for the correct answer	(1)	RP
	1.4	B ✓	1 mark for the correct answer	(1)	RP
	1.5	C ✓	1 mark for the correct answer	(1)	CP
		Total Marks for Question 1		**[05]**	
QUESTION 2	2.1	28; 35; 42; 49 ✓	1 mark for the correct answer	(1)	K
	2.2	Travels 100km in 1 hour Distance travelled in 9,5h = 9,5 x 100 ✓ = 950 km ✓	1st mark for knowing to multiply 2nd mark for answer. (Accept any method that is mathematically correct)	(2)	RP
	2.3	5 234 253 ✓	1 mark for the correct answer	(1)	K
	2.4	2 ✓	1 mark for the correct answer	(1)	K
	2.5.1	12 x 2 - 3 ✓	1 mark for the correct number sentence	(1)	K
	2.5.2	12 x 2 - 3 = 21 ✓	1 mark for the correct calculation	(1)	K
	2.6	2 + [5 x (9 – 4)] ✓ = 27	1 mark for inserting brackets correctly	(1)	RP
	2.7	53 – 41 = 12 ✓	1 mark for the correct calculation	(1)	RP
		Total Marks for Question 2		**[09]**	
QUESTION 3	3.1.1	$^1598 \, ^1\!456$ + 458 105 ✓ = 1 056 561 ✓ **OR**	1 mark for the correct place values 1 mark for the correct answer	(2)	RP

		$(500\ 000 + 400\ 000) + (90\ 000 + 50\ 000) +$ $(8\ 000 + 8\ 000) + (400 + 100) + (50 + 0) +$ $(6 + 5)$ ✔ $= 900\ 000 + 140\ 000 + 16\ 000 + 500 + 50 + 11$ $= 1\ 056\ 561$✔	1 mark for breaking down numbers according to their correct values. 1 mark for the correct answer		
	3.1.2	$\overset{8\ \ 14\ +1\quad 4\ +1}{9\not{5}6\ \not{2}\not{5}0}$ ✔ $-\quad\underline{689\ 231}$ ✔ $=\underline{267\ 019}$	1 mark for the correct place values 1 mark for the correct answer	(2)	RP
		OR			
		$(900\ 000 - 600\ 000) + (50\ 000 - 80\ 000) +$ $(6\ 000 - 9\ 000) + (200 - 200) + (50 - 30) + (0 - 1)$ $= (800\ 000 - 600\ 000) + (140\ 000 - 80\ 000) + (16\ 000 - 9\ 000) + (200 - 200) + (40 - 30) + (10 - 1)$ ✔ $= 200\ 000 + 60\ 000 + 7\ 000 + 000 + 10 + 9$ $= 267\ 019$✔	1 mark for breaking down numbers according to their correct values. 1 mark for the correct answer		
	3.1.3	$\quad\quad 3\ 590$ $x\quad\underline{\quad\ 621}$ $\quad\quad 3\ 590$ $\quad 71\ 800$ ✔ $\underline{\ 2\ 154\ 000}$ ✔ $=\underline{2\ 229\ 390}$ ✔	2 marks for the correct multiplication steps. 1 mark for the correct answer	(3)	RP
		OR			
		$= 2\ 229\ 390$✔			
	3.1.4	$\quad\quad\ .\ .\ 32\ rem\ 25$✔ $\underline{120\ \big|\ \ 3865}$ ✔ $\quad\quad -\ \underline{360}$ $\quad\quad\quad 265$✔ $\quad\quad -\ \underline{240}$ $\quad\quad\quad\quad 25\ remainder$ $\quad 32\ reminder\ 25$	2 marks for the correct division steps. 1 mark for the correct answer (Accept any method. If answer is correct award full marks)	(3)	RP
		OR			

	$$3\ 865$$ $$-\ 1\ 200\ (120 \times 10)$$ $$\overline{2\ 665}$$ $$-\ 1\ 200\ (120\ x10)\ ✔$$ $$\overline{1465}$$ $$-\ 1200\ (120\ x10)✔$$ $$\overline{265}$$ $$-\ \ \ \ 240\ (120\ x\ 2)$$ rem 25 (10 + 10 + 10 + 2 = 32) Answer = 32 remainder 25✔			
3.1.5	$$\frac{25}{36} + \frac{(3\ X\ 9)}{(4\ X\ 9)}$$ $$= \frac{25}{36} + \frac{27}{36} \quad ✔$$ $$= \frac{52}{36} \quad ✔$$ $$= 1\frac{16}{36}$$ $$= 1\frac{4}{9} \quad ✔$$ Answer only: $\frac{52}{36} or\ 1\frac{16}{36} or\ \frac{13}{9} or\ 1\frac{4}{9}$	First mark for denominator 36 and numerator 27 Second mark for adding 2 numerators. Third mark for writing improper fraction as a mixed number	(3)	RP
3.1.6	$$5\frac{4}{6} - 2\frac{2}{6} + 1\frac{1}{6}$$ $$= 5\frac{4}{6} - (2\frac{2}{6} + 1\frac{1}{6})$$ $$= 5\frac{4}{6} - 3\frac{3}{6} ✔ \square\square\square\square\ \square\square$$ $$= 2\frac{1}{6} ✔ \square\square\square\square\square\square\square$$ **OR** $$\frac{34}{6} - (\frac{14}{6} + \frac{7}{6})$$ $$= \frac{34}{6}\square - \frac{21}{6}\square ✔$$ $$= \frac{13}{6}$$ $$= 2\frac{1}{6} ✔$$	1 mark for subtracting mixed numbers. 1 mark for the correct answer	(2)	RP
3.1.7	$$8,26$$ $$+\ \ \ 3,04$$ $$=\ \underline{11,30} ✔$$ $$-\ \ \ \ 6,39$$ $$=\ \ \ \ \underline{4,91} ✔$$	1 mark for addition 1 mark for subtraction	(2)	RP
	Total Marks for Question 3		**[17]**	

QUESTION 4 4.1.1	0,5 ✔	1 mark for the correct answer.	(1)	K
4.1.2	$\frac{1}{4}$ ✔	1 mark for the correct answer.	(1)	K
4.2	0,75 ; 0,570 ; 0,5 ; 0,050 ✔	1 mark for the correct answer.	(1)	K
4.3	$$9,5\ Litres$$ $$-\ 8,7\ litres ✔$$ $$=\ \ \ \ \underline{0,8\ Litres} ✔$$	1 mark for the correct calculation method. 1 mark for the correct answer.	(2)	RP
	Total Marks for Question 4		**[5]**	

		✔			
	5.1.2	Constant multiplied by term number subtract 2 ✔✔ **OR** Multiply the pattern no. by 3 and subtract 2 to get the next term. ✔✔	2 marks for describing the pattern correctly in words.	(2)	CP
	5.1.3	Unknown term = 3 x term number - 2 ✔ 64 = 3 x term number – 2 3 x term number = 64 +2 Term number= 66 ÷3 = 22 ✔	1 mark for the correct calculation method. 1 mark for the correct answer.	(2)	CP
			Total Marks for Question 5	**[6]**	

QUESTION 6	6.1	Tsaone's length = (3,6m – 0,8m) ÷ 2 ✔
		           = 2,8 m ÷ 2
		           = 1,4 m ✔
		Laone's length = 1,4 m + 0,8 m
		           = 2,2 m ✔
			(Any other correct method is acceptable)
			1 mark for correct calculation method.
			1 mark for the correct answer(Tsaone)
			1 mark for the correct answer(Laone)
				(3)	PS

	6.2.1	630 ÷ 48 48 x 10 = 480 (630 – 480 = 150) 48 x 3 = 144 (150 – 144 = 6) ✔ 13 ✔ rem 6 ✔	1 mark for correct calculation method. 1 mark for the correct answer ,1 for the reminder (Any other correct method is acceptable)	(3)	CP
	6.3.1	$\frac{2}{3}$ x 600 kl ✔ $= \frac{1200}{3} = 400$ kl ✔	1 mark for correct calculation 1 mark for the answer	(2)	PS
			Total Marks for Question 6	**[08]**	
			TOTAL	**[50]**	