education

Department of Education
FREE STATE PROVINCE

ASSESSMENT TASK

GRADE 11

MATHEMATICAL LITERACY P1

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JUNE EXAMINATION 2025

MARKING GUIDELINE

MARKS/*PUNTE*: 75

SYMBOL/*KODE*	EXPLANATION/*VERDUIDELIKING*
M	Method/*Metode*
MA	Method with accuracy/*Metode met akkuraatheid*
CA	Consistent accuracy/*Volgehoue akkuraatheid*
A	Accuracy/*Akkuraatheid*
C	Conversion/*Herleiding*
S	Simplification/*Vereenvoudiging*
RT	Reading from a table/graph/map/diagram/*Lees vanaf tabel/kaart/grafiek/diagram*
SF	Correct substitution in a formula/*Korrekte vervanging in formule*
O	Opinion/Explanation/Reasoning /*Opinie/Verduideliking/Redenasie*
P	Penalty, e.g. for no units, incorrect rounding off, etc./*Penalisering, bv. vir geen eenhede/verkeerde afronding, ens.*
R	Rounding off/*Afronding*
NPR	No penalty for rounding/*Geen penalisering vir afronding nie*
AO	Answer only/*Slegs antwoord*
MCA	Method with constant accuracy/*Metode met volgehoue akkuraatheid*

These marking guidelines consist of 6 pages.
Hierdie nasienriglyne bestaan uit 6 bladsye

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NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however it stops at the second calculation error.
- Note: consistent accuracy (CA) does not apply in cases of a breakdown.
- As a general marking principle, if a candidate has incurred one mistake and there is evidence of sound mathematics thereafter, then that candidate should lose one mark only

LET WEL:

- *As 'n kandidaat 'n vraag TWEE KEER beantwoord, merk slegs die EERSTE poging.*
- *As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, merk die doodgetrekte (gekanselleerde) poging.*
- *Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyne toegepas, dit hou op by die tweede berekeningsfout.*
- *Let wel: volgehoue akkuraatheid (CA) geld nie in die geval van 'n afbreuk nie.*
- *'n Algemene merkbeginsel is dat indien 'n kandidaat een fout maak en daarna voortgaan met korrekte wiskunde, dat die kandidaat slegs een punt verloor.*

QUESTION/*VRAAG* 1 [15 MARKS/*PUNTE*]		**AO accepted**	
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
1.1.1	Cell C✓✓A	2A correct network provider (2)	F L1 E
1.1.2	01/04/2025 ✓✓ OR 1 April 2025	2A correct date **Accept:** 1/04 or 1 April (2)	F L1 E
1.1.3 (a)	A = R134,78 + R4,75 + R6,47 ✓ MA = R146, 00 ✓A OR A = 134,78 + R11,22 ✓MA = R146,00 ✓A	1MA Multiplying by 15% 1 A correct answer (2)	F L1 E
1.1.3 (b)	B = R21,90 + R146,00 ✓ MA = R167,90 ✓A	1S correct number added 1A value of A (2)	F L1 E
1.1.4	✓MA 4,75 : 6,47 ✓ RT 1 : 1, 36 ✓A	1 RT both correct value 1MA correct order 1 A simplification (3)	BS / F L1 E
1.2.1	Tokologo ✓A Goal difference = 5 ✓A	2A Tokologo 1A Five / 05 (2)	D L1 M
1.2.2	2024 + 4 = 2028 ✓✓A **Accept '28 ✓✓A**	2A year 2028 (2)	D L1 M
	Accept: four years	**later (half a marks) ✓A** **[15]**	

QUESTION/*VRAAG* 2 [22 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
2.1.1	✓✓ A 30 April 2025 OR 30/04/2025 ✓✓ A	2A correct date (2)	F L1 E
2.1.2	✓MA ✓MA ✓CA Labour cost = 8 × R75 = R600 OR Labour cost = 5 hrs fee + Fee for additional hrs × R75 ✓MA = R375,00 + (3 × R75,00) = R375,00 + R225,00 ✓S = R600,00 ✓CA	1MA total of 8 = (5 + 3) 1MA multiply by 3 1CA answer 1MA multiplying and adding Correct values 1S simplification of CA answer (3)	F L2 M
2.1.3	Amount for 7 parts = 7 × R12,35 ✓MA = R86,45 ✓CA	11MA multiply correct values 1CA answer (2)	F L1 M
2.1.4	✓✓ A ✓✓ A 0% OR Zero percent. **IMPOSSIBLE just 1 mark ✓ A**	2A correct percentage (2)	P L2 M
2.2.1	✓✓ A ✓✓ A 15 – 6 = 9 kℓ	1MA calculating difference 1CA answer (2)	F L1 E
2.2.2	Block 1 Block 2 Block 3 6 9 12 = 27 kℓ Cost for 1st 6 kℓ = 6 × 11,40 = R68,40 ✓CA Cost for 15 – 6kℓ = **9** × 28,14 = R253,26 ✓CA Cost for kℓ above 15 = **12** × 32,23 = R386,76 ✓CA Total excl. VAT =R68,40 + R253,26 + R386,76 ✓MCA = R708,42 ✓CA Total incl. VAT = R708,42 × $\frac{115}{100}$ = R814,68 ✓MCA Mr Sethole statement is valid. ✓O	**[6 + 9 + 12 = 27kℓ]** 1 CA amount in block 1 1CA amount in block 2 1CA amount in block 3 1 MCA adding totals 1CA total excluding VAT 1MCA calculating $\frac{115}{100}$ 1O Conclusion (7)	F L4 D

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Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T/L
	OR Cost for 1st 6 kℓ = **6** × 11,40 = R68,40 ✓CA Cost for 15 – 6kℓ = **9** × 28,14 = R253,26 ✓CA Cost for kℓ above 15 = **12** × 32,23 = R386,76 ✓CA Total excl. VAT =R68,40 + R253,26 + R386,76 ✓MCA = R708, 42 ✓CA Total incl. VAT = R708,42 × $\frac{15}{100}$ + R708,42 = R106,263 + R708,42 = R814,683 ✓MCA ✓O ≈ R814,68 Mr Sethole statement is valid.	1 CA amount in block 1 1CA amount in block 2 1CA amount in block 3 1 MCA adding totals 1CA total excluding VAT 1MCA adding 15% 1O Conclusion (7)	
2.2.3	% Increase = $\frac{\text{New amount - Old amount}}{\text{Old amount}} \times 100\%$ = $\frac{39,69 - 36,41}{36,41} \times 100$ ✓ MA ✓ MA ✓ MA = 9% ✓ CA	1MA numerator 1MA denominator 1MA Multiplying by 100 1CA answer (4)	F L3 D
		[22]	

QUESTION/*VRAAG* 3 [16 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
3.1.1	Histogram ✓✓A	2A histogram (2)	D L1 M
3.1.2	Total = 10 + 20 + **40** + 16 + 8 + 6 ✓ RT ✓MA = 100 ✓CA	1RT 40 workers 1MA adding all correct values 1CA total number of workers (3)	D L2 M
3.1.3	Y = 70 ✓ RT and X = 80 ✓ RT **OR** Y – X = 70 – 80 ✓ RT ✓ RT	1RT correct number of workers 1RT correct hourly range (2)	D L1 M
3.1.4	50 – 60 ✓✓A OR (50,60] ✓✓A	2A correct interval (2)	D L1 E
3.2.1 .	$= \frac{(5\times6)+(2\times9)+(2\times8)+(2\times7)+10+M+M}{14}$ ✓ MA ✓ MA $7 = \frac{2\times M+88}{14}$ $7 \times 14 = 2M + 88$ ∴ 2M = 98 – 88 ✓ MA 2M = 10 $M = \frac{10}{2}$ ✓ M ∴ M = 5 ✓ CA	1MA adding ALL values 1MA Concept of mean 1MA changing subject of the Formula 1M dividing by 2 1CA answer (5)	D L4 D
3.2.2	5 ✓✓A	**CA from 3.2.1** 2A correct minimum value (2)	D L1 E
		[16]	

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QUESTION/*VRAAG* 4	[10 + = 22 MARKS/*PUNTE*]		
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
4.1.1 (a)	A = R 12 184 – (R7 150 + R534) ✓MA = R4 500 ✓CA	1MA subtracting amounts 1CA salary of R4 500 (2)	F L2 E
4.1.1 (b)	B = R40 × 3 ✓MA = R120 ✓A	1MA multiply R40 by 3 1A amount (2)	F L2 E
4.1.1 (c)	C = R180 + (15% ×R180) ✓MA = R180 + R27 ✓M = R207 ✓CA	1MA calculating15% 1M adding and increase 1CA answer (3)	F L2 D
4.1.2	Insurance as % of income = $\frac{R392}{R12\,184} \times 100$ ✓CA ✓MA = 3,22% ✓CA	1MA correct fraction 1MA calculating a percent 1CA answer (3)	F L3 M
4.2.1	Total matches played = 10 ✓✓A	2A number of matches played (2)	D L1 E
4.2.2	Mode = 3 ✓✓A	2A correct mode (2)	D L1 E
4.2.3	Range = 9 – 1 ✓MA = 8 ✓A	1MA subtracting correct values and order. 1A answer (2)	D L1 E
4.2.4	1; 2; 3; 3; 4; 5; 7; 8; 8; 9 ✓MA Median = $\frac{4+5}{2}$ ✓MA = $\frac{9}{2}$ = 4,5 ✓CA	1 arranged in ascending order 1MA concept of median 1CA median (3)	D L3 M
4.2.5	$\frac{5}{10}$ ✓A ✓A = 0,5 ✓A	1A numerator 1A denominator 1 A probability as a decimal (3)	P L2 E
		[22]	
		TOTAL/*TOTAAL*: 75	