education

Department of Education
FREE STATE PROVINCE

EXAMINATION



GRADE 11

MATHEMATICAL LITERACY P2/
WISKUNDIGE GELETTERDHEID V2

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JUNE 2025

MARKING GUIDELINES/*NASIENRIGLYNE*

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 8 pages.
Hierdie nasienriglyne bestaan uit 8 blads

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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.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.

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.*
- *Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.*
- *'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 [18 MARKS/*PUNTE*] ANSWER ONLY FULL MARKS			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
1.1.1	2 eggs ✓✓A	2A number of eggs (2)	M L1 E
1.1.2	5 mℓ ✓✓A	2A correct measurement (2)	M L1 E
1.1.3	$\frac{250\ ml}{500\ ml}$ ✓MA = 2 cups✓A **OR** ✓MA 250 mℓ + 250 mℓ = 500 mℓ 1cup + 1cup = 2cups✓A	1MA dividing correct values 1A simplification **OR** 1MA adding correct values 1A simplification (2)	M L1 E
1.1.4	10 × 2 ✓MA = 20min ✓A	1MA multiplying correct values 1A simplification (2)	M L1 M
1.1.5	°F = (180° C × $\frac{9}{5}$) + 32✓SF = 356 ✓A	1 SF substituting correct values 1A simplification (2)	M L1 E

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1.2.1	E✓✓A	2A explanation (2)	MP L1 E
1.2.2	A✓✓A	2A explanation (2)	MP L1 E
1.2.3	B ✓✓A	2A explanation (2)	M L1 E
1.2.4	C✓✓A	2A explanation (2)	M L1 E



QUESTION/*VRAAG* 2 [21 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduidelikin g***	**T/L**
2.1	12/ Twelve windows ✓✓A	2A number of windows (2)	M/P L1 M
2.2	9/ Nine sockets✓✓A	2A number of sockets (2)	MP L1 E
2.3	NW ✓✓A **OR** North West ✓✓A	2A direction (2)	MP L2 M
2.4	1 unit/mm/cm on the map is equivalent to 150 units/mm/cm in reality. ✓✓ O **OR** The reality is 50 times bigger than on the map. ✓✓ O **OR** The map is 50 times smaller than reality. ✓✓ O	2O correct explanation 2O correct explanation 2O correct explanation (2)	MP L2 M
2.5	1:2✓✓ A	2A correct ratio (2)	MP L2 E
2.6	✓A • From B5 turn right and walk towards the aisle ✓A • Turn left and continue straight until you reach the front of row H. ✓A • Turn right and pass two seats then you will reach H1. ✓A	1A turn right 1A turn left 1A continue straight until you reach row H 1A turn right and pass two seats to reach H1 (4)	MP L3 M

2.7	1: 150✓RT 6cm: length ✓CA Length = 900 cm ÷ 100 ✓C = 9 m ✓ U **OR** $\frac{6}{100}$ = 0,06 m✓C 1: 150✓RT ✓CA Length = 9 m ✓ U	1RT correct scale 1CA simplification 1C conversion 1U correct units (4)	MP L3 D
2.8	✓A $\frac{51}{60}$ × 100 ✓M = 85% ✓CA	1A correct fraction 1M multiplying by 100 1CA simplification (3)	MP L2 D

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QUESTION/*VRAAG* 3 [19 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
3.1.1	R = $\frac{40}{2}$ ✓A = 20cm ✓CA	1A dividing by 2 1 CA simplification (2)	M L1 E
3.1.2	40: 50 ✓RT ✓S 1: 1,3 ✓R	1RT correct values 1S simplification 1R rounding (3)	M L2 M
3.1.3	**A = π × radius²** = 3,142 x 20^2 ✓SF = 1256,8 cm^2 ✓CA	1SF correct substitution 1CA simplification (2)	M L2 M
3.1.4	$\frac{1256,8}{10\,000}$ ✓C = 0,12568m^2 ✓MCA = 3 × 0,12568 = 0,37704 m^2 ✓CA 1 can covers 400 mℓ 400 mℓ can cover 0,2m^2 ✓MCA Number of cans: $\frac{0,37704}{0,2}$ = 1,8852 ≈ 2 cans The statement is correct ✓O	**CA from 3.1.3** 1C divide by 10 000 1MCA multiply by 3 1CA area 1MCA using ration 1O conclusion (5)	M L4 M
3.1.5	To protect wood from scratches✓✓O **OR** Moisture damage ✓✓O **OR** Decoration ✓✓O **OR** To prolong its life span ✓✓O Any relevant answer	2O correct reason 2O correct reason (4)	M L2 E

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3.2	Radius $= \frac{6\ cm}{2}$ $= 3cm$ ✓A C= 2 x 3,142 x 3 ✓SF = 18,852 cm^2 ✓CA	1A radius 1SF correct substitution 1CA simplification (3)	M L3 E



QUESTION/VRAAG4 [17MARKS/PUNTE]			
Q/V	**Solutions/oplossing**	**Explanation/Verduideliking**	**T/L**
4.1.1	Lesotho ✓✓A	2A correct country (2)	M L1 E
4.1.2	N5 ✓RT N1 ✓RT N6 ✓RT	1RT N5 1RT N1 1RT N6 (3)	M L2 E
4.1.3	✓A ✓A Winburg and Reddersburg	1A first correct town 1A second correct town (2)	MP L2 M
4.2.1	T = $\frac{D}{S}$ ✓MA = $\frac{313}{120}$ ✓SF = 2,60833333 ✓CA = 0,608333333 ×60 = 36,5min✓C = 04:00 + 2 hours 36,5 min = 6:37✓CA	1MA changing subject of the formula 1SF substitution 1CA simplification 1C converting hrs to min 1CA final arrival **Accept 6:36 and 6:36,5** (5)	M L3 M
4.2.2	313 x 2 = 626 ✓A $\frac{626km}{100}$ × 5 ℓ ✓A = 31,3ℓ ✓CA 31,1 x R23,26 =R 728,04 ✓CA She is correct ✓O	1A return distance 1A multiplying by 5 and diving by 100 1CA number of litres 1CAsimplification 1O conclusion (5)	M L4 D
		TOTAL/*TOTAAL*: 75	

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