GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

JUNE EXAMINATION
GRADE 12

2025

MARKING GUIDELINES

MATHEMATICAL LITERACY
(PAPER 2)

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CODES	EXPLANATION
M	Method
MA	Method with Accuracy
CA	Consistent Accuracy
A	Accuracy
C	Conversion
D	Define
J	Justification/Reason/Explain
S	Simplification
RT/RD/RG	Reading from a table OR a graph OR a diagram OR a map OR a plan
F	Choosing the correct formula
SF	Substitution in a formula
O	Opinion
P	Penalty, e.g. for no units, incorrect rounding-off, etc.
R	Rounding-off
NPR	No penalty for rounding-off OR omitting units
AO	Answer Only

KEY TO TOPIC SYMBOL:

M = Measurement; MP = Maps, Plans and other representations;
P = Probability

7 pages

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

QUESTION 1: [20 Marks]		**AO**	
Q	**Solution**	**Explanation**	**T&L**
1.1.1	Ground floor ✓A shop number one ✓A	1A ground floor 1A shop number (2)	MP L1
1.1.2	Northeast or NE ✓✓A	2A correct answer (2)	MP L1
1.1.3	Two ✓✓A	2 A answer (2)	MP L1
1.1.4	CNA ✓✓A	2A correct answer (2)	MP L1
1.2.1	C ✓✓A OR $\pi \times r^2$	2A correct formula (2)	M L1
1.2.2	120 : 74 ✓A 60 : 37 ✓A	1A ratio in the correct order 1A answer (2)	M L1
1.2.3	120 cm ÷ 2 ✓M = 60 cm ✓A	1M dividing by 2 1A answer (2)	M L1
1.2.4	74 × 10 ✓M = 740 mm ✓A	1M multiplying by 10 1A answer **NPU** (If wrong unit is used, penalise 1 mark) (2)	M L1
1.2.5(a)	D ✓✓ A	2A answer (2)	M L1
1.2.5(b)	B ✓✓ A	2A answer (2)	M

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QUESTION 2: [20 MARKS]			
Q	**Solution**	**Explanation**	**T&L**
2.1.	$260 + 107$ ✓M = 367 km ✓CA **Accept** : 638 km (If learners did not use the N1)	1M addition of correct values 1CA answer (2)	MP L2
2.2	Limpopo province ✓✓A	2A answer (2)	MP L2
2.3	Beitbridge ✓✓A	2A answer (2)	MP L2
2.4	$speed = \frac{68km\ ✓RT}{0,8}$ ✓ SF = 85 km/h ✓CA	1 RT correct distance 1 SF correct substitution 1CA answer NPR (3)	MP L3
2.5	Travel westwards ✓ A Turn right onto R521 and drive for 23km ✓ A Turn right onto R572and drive for 23km ✓ A The entrance will be on the right/left ✓ A **OR** Travel northeast ✓✓ A Turn left unto R572 for 68km ✓ A The entrance will be on the left/right ✓ A	1A west 1A right to R521 1A right to R572 1A entrance on the right/left **OR** 1A north 1A east 1A left 1A left/right (4)	MP L3
2.6	Measured distance = 48 mm✓ A 48 mm : 92 km ✓A 48 : 92 000 000 ✓C 1 : 1 916 666,667 ✓CA 1 : 1 900 000 ✓R **OR** Measured distance = 4,8 cm✓ A 4,8 cm : 92 km ✓A 4,8 : 9 200 000 ✓C 1 : 1 916 666 ,667 ✓CA 1 : 1 900 000 ✓R	1A measured length 1A correct ratio format 1C conversion 1CA answer 1R correct rounding (Range:45mm to 51mm/ 4,5cm to 5,1 cm) (5) 1A measured length 1A correct ratio format 1C conversion 1CA answer 1R correct rounding	MP L3

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2.7	• When a map/plan is resized, the number scale becomes inaccurate. ✓✓O **OR** • Calculations are required to determine the actual lengths and distances. ✓✓O (Accept any reasonable explanation.)	2O explanation (2)	MP L4



QUESTION 3: [23 Marks]			
Q	**Solution**	**Explanation**	**T&L**
3.1.1	60 × 2,54 ✓ C = 152,4 cm ✓ A	1C conversion 1A answer **AO** (2)	M L2
3.1.2	30 × 2,54 = 76,2 cm ✓ A $\frac{76,2}{100}$ ✓ C = 0,762 m ✓ CA ∴ the desk meets the requirements ✓ O **OR** $1 \div 2,54 = 0,3937\ inches$✓ A $30 \div 0,3937 = \frac{76,2cm}{100}$ ✓C $= 0,762$ m✓ CA ∴ the desk meets the requirements ✓ O	1A answer 1C conversion from cm to m 1CA answer 1O opinion 1A answer 1C conversion from cm to m 1CA answer 1O opinion (4)	M L4
3.1.3	Length of 1 plank 152,4cm ✓ MCA 2 m – (60 × 2,54) ✓C 200 cm – 152,4 cm ✓ M = 47,6 cm ✓ CA Total waste = 47,6 × 6 ✓ MCA = 285,6 cm ✓ CA	**CA from 3.1.1** 1MCA subtracting length from the 2m 1C converting length of 1 plank 1M subtracting values 1CA answer 1 MCA for multiplying by 6 1CA answer	M L3

	OR $152{,}4cm\ to\ m$: 152,4✓ MCA÷ 100 $= 1{,}524m$ ✓C $2m - 1{,}524m$ ✓ M $= 0{,}476m$✓ CA $= 0{,}476m \times 6$✓ MCA $= 2{,}856m$✓ CA **OR** $6 \times 152{,}4cm$✓MCA $= \frac{914{,}4cm}{100}$✓C $= 9{,}144m$✓CA 6×2✓M $= 12m$ $12 - 9{,}144$✓MCA $= 2{,}856m$✓CA	1MCA for using 152,4cm 1C for Conversion 1M subtracting from the length 1CA Answer 1MCA multiplying by 6 1CA answer 1MCA for using 152,4cm 1C for Conversion 1CA Answer 1M multiplying by 6 1MCA subtracting from the length 1CA answer (6)	

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<table>
<tr><td>3.2.1</td><td>
<table>
<tr><th>Description</th><th>Quantity to be purchased</th></tr>
<tr><td>Legs</td><td>4 x 28,5”
28,5 × 2,54 × 4 ✓ M
= 289,56 cm ✓CA</td></tr>
<tr><td>Top supports</td><td>2 x 17”
17 × 2,54 × 2
= 86,36cm ✓ CA</td></tr>
<tr><td>Table top</td><td>6 x 60”
60 × 2,54 × 6
914,4 cm ✓ CA</td></tr>
<tr><td>Total length</td><td>= 289,56 + 86,36 + 914,4 ✓ MCA
= 1 290,32 cm ✓ CA
1 290,32 ÷ 100 ✓ C
= 12,9032 m ✓ CA</td></tr>
<tr><td colspan="2">∴ the claim is correct ✓ J</td></tr>
</table>
</td><td>1M multiplication of values
1CA answer
1CA length of top supports
1CA length of tabletop
1MCA adding values
1CA answer in cm
1C converting to m
1CA answer in m
1J justification
(9)</td><td>M
L4</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td>3.2.2</td><td>Any one of the following: ✓✓ A
Hammer; Screwdriver; Wrench; Clamps
Accept any other tools mentioned.</td><td>2A answer
(2)</td><td>M
L2</td></tr>
</table>

QUESTION 4: [23 MARKS]			
Q	**Solution**	**Explanation**	**T&L**
4.1.1	Total length $= 2 \times (12\text{ cm} + 5\text{ cm})$ ✓SF $= 34\text{ cm}$ ✓CA	1SF correct substitution 1CA answer **AO** (2)	M L2
4.1.2	1 : 90 One unit on the map, represents ninety units in reality. ✓✓A	2A explanation (2)	MP L1
4.1.3	$12cm \times 90$ ✓$MA = 1080cm$ ✓A $= \frac{1080cm}{100}$ ✓C $= 10{,}80m$ ✓CA	1MA for multiplying by scale factor 1A answer 1C conversion 1CA answer (4)	MP L3

4.2.1	6 outcomes ✓✓A	2A correct answer (2)	P L2
4.2.2	$\frac{3\checkmark A}{6\checkmark A} \times 100 = 50\% \checkmark CA$	1A numerator 1A denominator 1CA answer (3) **AO**	P L2
4.3.1	$48 \div 12 = 4 \checkmark$M $4 \times 1\frac{1}{2} \checkmark$MCA $= 6\ cups \checkmark$CA	1M for dividing the correct values 1MCA for multiplication 1CA answer (3)	M L3
4.3.2	$210 \checkmark SF = s^2$ $\sqrt{210} \checkmark S = \sqrt{s^2}$ 14,49 mm ✓A	1SF correct substitution of area 1S simplifying for $\sqrt{210}$ 1A correct answer **(Accept: 14,491 mm)** **AO** (3)	M L3
4.3.3	$14:24 + 00:10 \checkmark$M $+ 00:30 \checkmark$RT $= 15:04 \checkmark$CA She will be on time. ✓O **OR** 15:04 ✓RT - 14:24 ✓M = 0:40 ✓CA She will be on time because the recipe takes 40 min. ✓O OR (No, the party starts exactly 15:04, she will not be done before the time)	1RT for 10 min and 30 min 1M adding the times 1CA answer 1O opinion 1RT for 15:04 and 14:24 1M for subtracting 14:24 1CA answer 1O opinion **First three marks} AO** **Opinion mark} 1 mark** (4)	M L4

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QUESTION 5: [14 Marks]			
Q	**Solution**	**Explanation**	**T&L**
5.1.1	Area of a rectangle = length x width = 59 cm x 52 cm ✓ SF $=\frac{3\,068}{100^2}$ ✓ C = 0,3068 m^2 ✓CA **OR** Area of rectangle = length x width ✓ SF ✓C = (59 ÷ 100) x (52 ÷ 100) = 0,59 x 0,52 = 0,3068 m^2 ✓CA	1SF correct substitution into formula 1C converting to m^2 1CA answer 1SF correct substitution into formula 1C converting to m^2 1CA answer **NPR** (3)	M L2
5.1.2	Volume of pot = 3,142 × 10 × 10 × 16 ✓ SF = 5 027,2 ÷ 1000 ✓ C = 5,0272 ✓ CA Volume of water in pot = ¾ × 5,0272 ✓ MCA = 3,7704 litres ✓ CA	1SF correct substitution into formula 1C converting to litres 1CA answer 1MCA multiplying by ¾ 1CA answer (5)	M L3
5.2.1	Compass ✓✓A **OR** GPS/ Google maps/ Maps/ Atlas/ Garmin/ Waze **(Accept any relevant navigation system)**	2A correct answer (2)	MP L2
5.2.2	Percentage increase $=\frac{280\,000-260\,321}{260\,321}\times 100$ ✓ SF $=\frac{19\,679}{260\,321}\times 100$✓S = 7,559…%✓CA ≈ 8%✓R	1SF substituting the values correctly 1S simplifying 1CA answer 1R correct rounding (4)	MP L3