GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

JUNE EXAMINATION
GRADE 12

2025

MARKING GUIDELINES

MATHEMATICAL LITERACY

(PAPER 2)

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 AA	2A correct answer (2)	MP L1
1.1.3	Two A	2 A answer (2)	MP L1
1.1.4	CNA AA	2A correct answer (2)	MP L1
1.2.1	C AA 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 L1

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	$speed = \frac{68kmRT}{0,8}$ 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	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	MP L3

	4,8 cm : 92 km A 4,8 : 9 200 000 C 1 : 1 916 666 ,667 CA 1 : 1 900 000 R	1A correct ratio format 1C conversion 1CA answer 1R correct rounding	
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)	

<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 $= 2 \times (12\ cm + 5\ cm)$ SF $= 34\ cm$ 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	$12cm \times 90MA = 1080cmA$ $= \frac{1080cm}{100} C$ $= 10{,}80m$CA	1MA for multiplying by scale factor 1A answer 1C conversion 1CA answer (4)	MP L3

4.2.1	6 outcomesA	2A correct answer (2)	P L2
4.2.2	$\frac{3A}{6A} \times 100 = 50\% CA$	1A numerator 1A denominator 1CA answer (3) **AO**	P L2
4.3.1	$48 \div 12 = 4$ M $4 \times 1\frac{1}{2}\ MCA = 6\ cups$ CA	1M for dividing the correct values 1MCA for multiplication 1CA answer (3)	M L3
4.3.2	$210\ SF = s^2$ $\sqrt{210}S = \sqrt{s^2}$ 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	$14{:}24 + 00{:}10\ \ M + 00{:}30\ RT$ $= 15{:}04$ 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

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 $= 7{,}559\ldots\%$ CA $\approx 8\%$ R	1SF substituting the values correctly 1S simplifying 1CA answer 1R correct rounding (4)	MP L3