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JUNE EXAMINATION GRADE 12

JUNE 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 ✓✓ 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



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

2.7	<ul style="list-style-type: none"> When a map/plan is resized, the number scale becomes inaccurate. ✓✓O <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> Calculations are required to determine the actual lengths and distances. ✓✓O <p>(Accept any reasonable explanation.)</p>	2O explanation	MP L4
		(2)	



QUESTION 3: [23 Marks]			
Q	Solution	Explanation	T&L
3.1.1	$60 \times 2,54 \checkmark C$ $= 152,4 \text{ cm} \checkmark A$	1C conversion 1A answer AO (2)	M L2
3.1.2	$30 \times 2,54$ $= 76,2 \text{ cm} \checkmark A$ $\frac{76,2}{100} \checkmark C$ $= 0,762 \text{ m} \checkmark CA$ $\therefore \text{the desk meets the requirements} \checkmark O$ OR $1 \div 2,54 = 0,3937 \text{ inches} \checkmark A$ $30 \div 0,3937 = \frac{76,2 \text{ cm}}{100} \checkmark C$ $= 0,762 \text{ m} \checkmark CA$ $\therefore \text{the desk meets the requirements} \checkmark O$	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 $\checkmark MCA$ $2 \text{ m} - (60 \times 2,54)$ $\checkmark C$ $200 \text{ cm} - 152,4 \text{ cm} \checkmark M$ $= 47,6 \text{ cm} \checkmark CA$ Total waste = $47,6 \times 6 \checkmark MCA$ $= 285,6 \text{ cm} \checkmark CA$	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

3.2.1	Description	Quantity to be purchased		M L4
	Legs	4 x 28,5" $28,5 \times 2,54 \times 4 \checkmark M$ $= 289,56 \text{ cm} \checkmark CA$	1M multiplication of values 1CA answer	
	Top supports	2 x 17" $17 \times 2,54 \times 2$ $= 86,36 \text{ cm} \checkmark CA$	1CA length of top supports	
	Table top	6 x 60" $60 \times 2,54 \times 6$ $914,4 \text{ cm} \checkmark CA$	1CA length of tabletop	
	Total length	$= 289,56 + 86,36 + 914,4 \checkmark MCA$ $= 1\,290,32 \text{ cm} \checkmark CA$ $1\,290,32 \div 100 \checkmark C$ $= 12,9032 \text{ m} \checkmark CA$	1MCA adding values 1CA answer in cm 1C converting to m 1CA answer in m 1J justification	
	\therefore the claim is correct $\checkmark J$		(9)	
3.2.2	Any one of the following: $\checkmark \checkmark A$ Hammer; Screwdriver; Wrench; Clamps Accept any other tools mentioned.		2A answer (2)	M L2

QUESTION 4: [23 MARKS]

Q	Solution	Explanation	T&L
4.1.1	Total length = $2 \times (12 \text{ cm} + 5 \text{ cm}) \checkmark SF$ $= 34 \text{ cm} \checkmark CA$	1SF correct substitution 1CA answer AO (2)	M L2
4.1.2	1 : 90 One unit on the map, represents ninety units in reality. $\checkmark \checkmark A$	2A explanation (2)	MP L1
4.1.3	$12 \text{ cm} \times 90 \checkmark MA = 1080 \text{ cm} \checkmark A$ $= \frac{1080 \text{ cm}}{100} \checkmark C$ $= 10,80 \text{ m} \checkmark CA$	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	$\frac{3\check{A}}{6\check{A}} \times 100 = 50\% \check{CA}$	1A numerator 1A denominator 1CA answer (3) AO	P L2
4.3.1	$48 \div 12 = 4 \check{M}$ $4 \times 1\frac{1}{2} \check{MCA} = 6 \text{ cups } \check{CA}$	1M for dividing the correct values 1MCA for multiplication 1CA answer (3)	M L3
4.3.2	$210 \check{SF} = s^2$ $\sqrt{210} \check{S} = \sqrt{s^2}$ 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	<p>14:24 + 00:10 ✓M + 00:30 ✓RT = 15:04 ✓CA She will be on time. ✓O</p> <p style="text-align: center;">OR</p> <p>15:04 ✓RT - 14:24 ✓M = 0:40 ✓CA She will be on time because the recipe takes 40 min. ✓O</p> <p style="text-align: center;">OR</p> <p>(No, the party starts exactly 15:04, she will not be done before the time)</p>	<p>1RT for 10 min and 30 min 1M adding the times 1CA answer 1O opinion</p> <p>1RT for 15:04 and 14:24 1M for subtracting 14:24 1CA answer 1O opinion</p> <p>First three marks} AO Opinion mark} 1 mark</p> <p style="text-align: right;">(4)</p>	M L4

QUESTION 5: [14 Marks]			
Q	Solution	Explanation	T&L
5.1.1	<p>Area of a rectangle = length x width = 59 cm x 52 cm ✓ SF $\frac{3\,068}{100^2}$ ✓ C = 0,3068 m² ✓ CA</p> <p style="text-align: center;">OR</p> <p>Area of rectangle = length x width ✓ SF ✓ C = (59 ÷ 100) x (52 ÷ 100) = 0,59 x 0,52 = 0,3068 m² ✓ CA</p>	<p>1SF correct substitution into formula 1C converting to m² 1CA answer</p> <p>1SF correct substitution into formula 1C converting to m² 1CA answer NPR (3)</p>	M L2
5.1.2	<p>Volume of pot = 3,142 × 10 × 10 × 16 ✓ SF = 5 027,2 ÷ 1000 ✓ C = 5,0272 ✓ CA</p> <p>Volume of water in pot = $\frac{3}{4}$ × 5,0272 ✓ MCA = 3,7704 litres ✓ CA</p>	<p>1SF correct substitution into formula 1C converting to litres 1CA answer</p> <p>1MCA multiplying by $\frac{3}{4}$ 1CA answer (5)</p>	M L3
5.2.1	<p>Compass ✓✓ A</p> <p style="text-align: center;">OR</p> <p>GPS/ Google maps/ Maps/ Atlas/ Garmin/ Waze (Accept any relevant navigation system)</p>	<p>2A correct answer (2)</p>	MP L2
5.2.2	<p>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</p>	<p>1SF substituting the values correctly 1S simplifying 1CA answer 1R correct rounding (4)</p>	MP L3