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### PROVINCIAL ASSESSMENT

**GRADE 12** 

# MATHEMATICAL LITERACY P2 JUNE 2025 MARKING GUIDELINES

**MARKS: 100** 

Symbol	Explanation	
MA	Method with accuracy	
MCA	Method with consistent accuracy	
CA	Consistent accuracy	
A	Accuracy	
C	Conversion	
S	Simplification	
RT	Reading from a table/a graph/document/diagram	
SF	Correct substitution in a formula	
0	Opinion/Explanation/Reasoning	
P	Penalty, e.g. for no units, incorrect rounding off, etc.	
R	Rounding off	
NPR	No penalty for correct rounding	
AO	Answer only	

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Grade 12 – Marking Guidelines

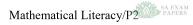
Mathematical Literacy/P2 PAPERS

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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 penalize for every extra item presented.
- General principle of marking, if the candidate makes one mistake one mark is deducted.
- Rounding is an independent mark.
- In opinion type questions marks will only be awarded if relevant calculations are shown.



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Grade 12 - Marking Guidelines

QUES	ΓΙΟΝ 1 [20 MARKS] ANSWER ONLY FULL MARKS			
QUE	Solution	Explanation		T/L
1.1.1	Radius is the line drawn from the centre of a circle to a point on	2A explanation		M
	the circle. $\checkmark \checkmark A$			L1
	OR			
	Radius is the line joining the centre of a circle to a point on the circle. $\checkmark \checkmark A$			
	<b>OR</b> Radius is half of a diameter. $\checkmark \checkmark A$		(2)	
1.1.2	Scale is the factor that relates the measurement on paper with	2A explanation	(2)	MP
1111	the real measurement. $\checkmark \checkmark A$			L1
	OR			
	Scale is a ratio that gives the relationship between the			
	measurement on paper and the real measurement. $\checkmark \checkmark A$		(2)	
			( )	
1.1.3	Duck shillity is a sharper/likelihead of an event to seem /	2.4		P
1.1.3	Probability is a chance/likelihood of an event to occur / happen. ✓ ✓ A	2A explanation	(2)	L1
1.2.1	B ✓ ✓ A	2A answer	(2)	M
1.2.1	B V V A	2A aliswei	(2)	L1
1.2.2	D✓✓A	2A answer	(2)	M
1.2.2	D V V A	ZA aliswei	(2)	L1
1.2.3	F✓✓A	2A answer	(2)	M
1.2.3	IVA	2A allswei	(2)	L1
1.2.4	G✓✓A	2A answer	(2)	M
1.2.4		27 Canswer	(2)	L1
1.3.1	Bar scale <b>OR</b> Linear scale <b>OR</b> Graphic scale. ✓ ✓ A	2A answer	(2)	MP
1.5.1	Dar Searce GR Emear Searce GR Grapine Searce.	271 4115 77 61	(2)	L1
1.3.2	5 ✓ ✓	2A answer	(-)	MP
1.5.2			(2)	L1
1.3.3	Pretoria√ A		(-)	MP
	Johannesburg ✓ A			L1
	OR	1A answer		
	Musina✓A	1A answer		
	Accept Weipe ✓ A	(2)		
			[20]	

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#### Grade 12 – Marking Guidelines

QUES	TION 2 [28 MARKS]		
Ques	Solution	Explanation	T/L
2.1	Limpopo river✓✓A	2A answer	MP
		(2)	L1
2.2	Probability = 0% ✓✓A	2A answer	MP
		(2)	L2
2.3	NW✓✓A	2A answer	MP
	OR	(2)	L2
	Northwest ✓ ✓ A		
2.4	Measured length = 1,8 cm ✓A	1A measured distance	MP
	1,8 cm: 125 km✓MA	1MA correct ratio	L4
	1,8 cm: 125 × 100 000 cm	1C conversion	
	1,8 cm: 12 500 000 cm ✓ C	1S simplification	
	1 : 6 944 444 ✓S	1O opinion	
	∴The claim is not valid. ✓ O		
	OR		
	Measured length = 18 mm ✓ A		
	18 mm: 125 km✓MA		
	18 mm: 125 × 1 000 000 mm		
	18 mm: 125 000 000 mm ✓ C	[Accept 1,7 cm to 1,9 cm	
	1 : 6 944 444 ✓S	OR 17 mm to 19 mm]	
	∴The claim is not valid. ✓O	(5)	
2.5.1	$Time = \frac{1852  km}{80  km/h} \checkmark SF$	1SF substitution	MP
	80 km/n		L2
	= 23,15 hours ✓ S	1S simplification	
	✓A ✓A	1A hours	
	= 23 hours and 9 minutes	1A minutes	
		(4)	
2.5.2	Total time for the trip	CA from Q2.5.1	MP
	= 23 hours 9 min + 48 min + 1 hour 30 min ✓ MCA	1MCA adding correct values	L3
	= 25 hours 27 minutes ✓ CA	1CA total 1CA day	
	Day of arrival is Saturday ✓ CA= 24 hours	1MCA addition	
	Arrival time = 13:15 + 1:27 ✓ MCA	Tivien addition	
	= 14: 42 <b>√</b> CA	1CA arrival time	
	OR	OR	
	Total time for the trip	1MA adding time spent at	
	$13:15 + 48 = 14:03\checkmark MA$	border	
	$14:03 + 1:30 = 15:33 \checkmark MCA$	1MCA adding time spent at Bulawayo	
		1MCA adding travelling time	
	$15:33 + 23:09 = 38:42 \checkmark MCA$	1CA day	
	Day of arrival = Saturday ✓ CA at 14:42 ✓ CA	1CA arrival time	
		(5)	
2.5.3	Stretch legs OR Bathroom break OR Refreshments	2R reason	MP
	OR Petrol OR Sight-seeing RSA EXAM P	$\mathbf{APERS} \tag{2}$	L4

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2.6.1	Livingstone island ✓ ✓ A	2A answer		MP
			(2)	L1
2.6.2	Turn right at the entrance then turn left ✓A	1A turn right and left		MP
	At the crossroad turn right ✓ A	1A turn right		L2
	Walk along the footpath, pass the right junction ✓ A	1A pass right junction		
	Turn left ✓A	1A turn left		
	Then you will be facing point 9	OR		
	OR	1A turn right a		
	Turn right at the entrance ✓A	1A turn left		
	Pass toilets then turn left. ✓A	1A pass right		
	Walk along the footpath then turn right at the	1A turn left		
	T-Junction ✓ A		(4)	
	Turn left ✓A			
	Then you will be facing point 9			
			[28]	

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Grade	12 –	Marking	Guide	lines
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QUESTION 3 [28 MARKS]				
Ques	Solution	Explanation		T/L
3.1.1	Perimeter is the total length around the borders of the	2A answer		M
	silo.✓✓R		(2)	L1
3.1.2	3 000 mm = 3 m√C	1C conversion		M
	Volume = $s^2 \times h$			L2
	$= (2,3 \text{ m})^2 \times 3 \text{ m}\checkmark \text{SF}$	1SF substitution		
	$= 15,87 \text{ m}^3 \checkmark \text{S}$	1S simplification		
	$= 16 \text{ m}^3 \checkmark \text{R}$	1R rounding		
			(4)	
3.1.3	$Area = 4s \times height + s^2$			M
	$= 4 \times 2.3 \text{ m} \times 3 \text{ m} + (2.3 \text{ m})^2 \checkmark \text{SF}$	1SF substitution		L3
	$= 27.6 \text{ m}^2 + 5.29 \checkmark \text{S}$	1S simplification		
	$= 32,89 \text{ m}^2 \checkmark \text{S}$	1S simplification		
	Total area for 3 silo covers = $3 \times 32,89 \text{ m}^2 \checkmark MCA$	1MCA multiplying by 3		
	$= 98,67 \text{ m}^2 \checkmark \text{CA}$	1CA answer		
			(5)	
3.1.4	To avoid damage ✓ ✓ R <b>OR</b> to protect them from	2R reason		M
	getting moist $\checkmark \land R$ <b>OR</b> to protect from rusting $\checkmark \land R$		(2)	L4
	Accept any relevant reason			
3.2.1	$3 962,5808 \text{ gallons} = 3 962,5808 \times 3,7854 \text{ litres} \checkmark \text{C}$	1C conversion to litres		M
	= 14 999,95336 litres ✓ S	1S simplification		L2
	= 15 000 litres ✓ R	1R rounding		
	$= 15 \text{ m}^3 \checkmark \text{C}$	1C conversion to m <sup>3</sup>		
	OR	OR		
	$962,5808 \text{ gallons} = 3962,5808 \times 3,7854 \text{ litres} \checkmark \text{C}$	1C conversion to litres		
	= 14 999,95336 litres ✓ S	1S simplification		
	$= 14,99995336 \text{ m}^3 \checkmark \text{C}$	1C conversion to m <sup>3</sup>		
	$= 15 \text{ m}^3 \checkmark \text{R}$	1R rounding		
2.2.2			(4)	3.6
3.2.2	D 1 22 115 ()	CA from Q3.2.1		M
	Radius = $2.3 \text{ m} \div 2 = 1.15 \text{ m} \checkmark \text{A}$	1A radius		L3
	$15 \text{ m}^3 = 3.142 \times (1.15 \text{ m})^2 \times \text{h} \checkmark \text{SF}$	1SF substitution		
	$h = \frac{15 m^3}{3,142 \times (1,15 m)^2} \checkmark MA$	13.6.4. 1 1 1 1 1 1		
	$h = 3,609852008 \text{ m} \checkmark \text{S}$	1MA changing subject		
		1S simplification		
		NPR	(4)	
			(4)	

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3.2.3 Total area to be painted = 3 x 34,33 m² ∨ MA = 102,99 m² ∨ A  First coat paint = $\frac{102,99 m²}{9m²/lttre}$ $\sqrt{MCA}$ = 11,443333333 litres $\sqrt{CA}$ $\sqrt{CA}$ = 8,5825 litres $\sqrt{CA}$ $C$	2 2 2	Total area to be rejuted - 2 × 24 22 m <sup>2</sup> /MA	1MA moultinaring a last 2	111
First coat paint $=\frac{102.99m^2}{9m^2/\text{litre}} \checkmark \text{MCA}$ $=11,443333333$ litres $\checkmark \text{CA}$ Subsequent coat paint $=\frac{102.99m^2}{12m^2/\text{litre}}$ $=8,5825$ litres $\checkmark \text{S}$ Total paint $=11,4433333333$ litres $+8,5825$ litres $=20,026$ litres $\checkmark \text{CA}$ OR 21 litres $\checkmark \text{CA}$ $\therefore$ The claim is valid. $\checkmark \text{O}$ OR  First coat paint $=\frac{34,33m^2}{9m^2/\text{litre}} \checkmark \text{MA}$ $=3,814444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,23m^2}{12m^2/\text{litre}}$ $=2,860833333$ litres $\checkmark \text{S}$ 1 silo paint $=3,814444444$ litres $\neq 2,860833333$ litres $=6,675277777$ litres $\checkmark \text{CA}$ Total paint $=3 \times 6,675277777$ litres $\checkmark \text{MCA}$ $=20,02583333$ litres $\checkmark \text{CA}$ $\therefore$ The claim is valid. $\checkmark \text{O}$ OR  First coat paint $=\frac{34,33m^2}{9m^2/\text{litre}} \checkmark \text{MA}$ $=3,814444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \checkmark \text{MA}$ $=3,814444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \checkmark \text{MA}$ $=3,8144444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \checkmark \text{MA}$ $=3,8144444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \checkmark \text{MA}$ $=3,8144444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \checkmark \text{MA}$ $=3,8144444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \checkmark \text{MA}$ $=3,814444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \checkmark \text{MA}$ $=3,814444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \circlearrowleft \text{S}$ I silo paint $=3,814444444$ litres $\checkmark \text{S}$ Subsequent coat paint $=\frac{34,33m^2}{12m^2/\text{litre}} \circlearrowleft \text{S}$ $=2,860833333$ litres $\checkmark \text{CA}$ Total paint $=3,814444444$ litres $\rightarrow 2,860833333$ litres	3.2.3			
Subsequent coat paint $=\frac{102.99 m^2}{12m^2/lttre}$ $= 8,5825 \text{ litres} \checkmark S$ Total paint = 11,4433333333 litres $\neq 8,5825 \text{ litres}$ $= 20,026 \text{ litres} \checkmark CA \text{ OR 21 litres} \checkmark CA$ $\therefore$ The claim is valid. $\checkmark$ O  OR  First coat paint = $\frac{34.33 m^2}{9m^2/lttre} \checkmark MA$ $= 3,814444444 \text{ litres} \checkmark S$ 1 silo paint = $\frac{34.33 m^2}{12m^2/lttre}$ $= 2,860833333 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ $\therefore$ The claim is valid. $\checkmark$ O  OR  First coat paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark MCA$ $= 20,02583333 \text{ litres} \checkmark CA$ $\therefore$ The claim is valid. $\checkmark$ O  OR  First coat paint = $\frac{34.33 m^2}{9m^2/lttre} \checkmark MA$ $= 3,814444444 \text{ litres} \checkmark S$ Subsequent coat paint = $\frac{34.33 m^2}{9m^2/lttre} \checkmark MA$ $= 3,814444444 \text{ litres} \checkmark S$ Subsequent coat paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ $= 2,60833333 \text{ litres} \checkmark CA$ $= 2,60833333 \text{ litres} \checkmark CA$ Subsequent coat paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark CA$ Total paint = $3 \times 6,67527777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777$			1A total area	L4
Subsequent coat paint $=\frac{102.99 m^2}{12m^2/lttre}$ $= 8,5825 \text{ litres} \checkmark S$ Total paint = 11,4433333333 litres $\neq 8,5825 \text{ litres}$ $= 20,026 \text{ litres} \checkmark CA \text{ OR 21 litres} \checkmark CA$ $\therefore$ The claim is valid. $\checkmark$ O  OR  First coat paint = $\frac{34.33 m^2}{9m^2/lttre} \checkmark MA$ $= 3,814444444 \text{ litres} \checkmark S$ 1 silo paint = $\frac{34.33 m^2}{12m^2/lttre}$ $= 2,860833333 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ $\therefore$ The claim is valid. $\checkmark$ O  OR  First coat paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark MCA$ $= 20,02583333 \text{ litres} \checkmark CA$ $\therefore$ The claim is valid. $\checkmark$ O  OR  First coat paint = $\frac{34.33 m^2}{9m^2/lttre} \checkmark MA$ $= 3,814444444 \text{ litres} \checkmark S$ Subsequent coat paint = $\frac{34.33 m^2}{9m^2/lttre} \checkmark MA$ $= 3,814444444 \text{ litres} \checkmark S$ Subsequent coat paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ $= 2,60833333 \text{ litres} \checkmark CA$ $= 2,60833333 \text{ litres} \checkmark CA$ Subsequent coat paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark CA$ Total paint = $3 \times 6,67527777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $\frac{34.33 m^2}{12m^2/lttre} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777 \text{ litres} \checkmark CA$ Total paint = $3 \times 6,675277777$		First coat paint = $\frac{102,99 \text{ m}^2}{9 \text{ m}^2 / \text{litra}} \checkmark \text{MCA}$	12.604 11.11	
Subsequent coat paint = $\frac{102.99 \text{ m}^2}{12m^2/lltre}$ = 8,5825 litres $'$ S  Total paint = 11,4433333333 litres $'$ S  Total paint = $\frac{34.433 \text{ m}^2}{9m^2/lltre}$ / MA  = 3,814444444 litres $'$ S  Subsequent coat paint = $\frac{34.33 \text{ m}^2}{9m^2/lltre}$ / MA  = 2,860833333 litres $'$ MA  = 1 silo paint = $\frac{34.33 \text{ m}^2}{12m^2/lltre}$   Simplification  Subsequent coat paint = $\frac{34.33 \text{ m}^2}{9m^2/lltre}$   Simplification  ICA total paint  IO opinion  OR  IMA dividing  IS simplification  IS simplification  IS simplification  ICA paint for 1 silo  IO apaint for 1 silo  ICA paint for 1 s			_	
$= 8,5825 \text{ litres} \checkmark S$ $\text{Total paint} = 11,4433333333 \text{ litres} + 8,5825 \text{ litres}$ $= 20,026 \text{ litres} \checkmark \text{CA } \text{OR } 21 \text{ litres} \checkmark \text{CA}$ $\therefore \text{ The claim is valid.} \checkmark \text{O}$ $\text{OR}$ $\text{First coat paint} = \frac{34,33  m^2}{9m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,814444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}}$ $= 2,860833333 \text{ litres} \checkmark S$ $1 \text{ silo paint} = 3,814444444 \text{ litres} + 2,860833333 \text{ litres}$ $= 6,675277777 \text{ litres} \checkmark \text{CA}$ $\text{Total paint} = 3 \times 6,675277777 \text{ litres} \checkmark \text{MA}$ $= 20,02583333 \text{ litres} \checkmark \text{CA}$ $\therefore \text{ The claim is valid.} \checkmark \text{O}$ $\text{OR}$ $\text{First coat paint} = \frac{34,33  m^2}{9m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{9m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}}$ $= 2,860833333 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 3,8144444444 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 2,860833333 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 2,860833333 \text{ litres} \checkmark S$ $\text{Subsequent coat paint} = \frac{34,33  m^2}{12m^2 / \text{litre}} \checkmark \text{MA}$ $= 2,860833333 \text{ litres} \checkmark S$ $\text{Is simplification}$ $IS simplifica$		11,11333333 11465 - 211	ICA simplification	
Total paint = 11,4433333333 litres + 8,5825 litres = 20,026 litres ✓ CA <b>OR</b> 21 litres ✓ CA ∴ The claim is valid. ✓ O  OR  First coat paint = $\frac{34,33  m^2}{9m^2 / litre}$ ✓ MA $= 3,814444444 litres ✓ S$ Subsequent coat paint = $\frac{34,33  m^2}{12m^2 / litre}$ $= 2,860833333 litres ✓ S$ 1 silo paint = 3,814444444 litres ✓ S  1 silo paint = 3 × 6,675277777 litres ✓ MCA $= 20,02583333 litres ✓ CA$ Total paint = $34,33  m^2$ ∴ The claim is valid. ✓ O  OR  First coat paint = $\frac{34,33  m^2}{9m^2 / litre}$ ✓ MA $= 3,8144444444 litres ✓ S$ Subsequent coat paint = $\frac{34,33  m^2}{9m^2 / litre}$ ✓ MA $= 3,8144444444 litres ✓ S$ Subsequent coat paint = $\frac{34,33  m^2}{12m^2 / litre}$ $= 2,860833333 litres ✓ S$ 1 silo paint = 3,8144444444 litres + 2,860833333 litres $= 7  litres ✓ CA$ Total paint = 3 × 7 litres ✓ MCA $= 21  litres ✓ CA$ ∴ The claim is valid. ✓ O  Total paint = 3 × 7 litres ✓ MCA $= 21  litres ✓ CA$ ∴ The claim is valid. ✓ O  (7)		,		
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			(7)	
[28]			[28]	

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QUESTION 4 [24 MARKS]				
Ques	Solution	Explanation	T/L	
4.1	Body Mass Index ✓ ✓ A	2A answer	M	
		(2)	L1	
4.2	$4+3+2=9\checkmark A$	1A adding values	M	
	Supper calories = $\frac{2}{9} \times 2500 \checkmark MCA$	1MCA multiplying $\frac{2}{9}$	L3	
	= 555,55 <b>√</b> S	1S simplification		
	= 560√R	1R rounding		
	OR	OR		
	$4 + 3 + 2 = 9\checkmark A$	1A adding values		
	Unit calory = $\frac{2500}{9}$ $\checkmark$ CA = 277,78	1CA unit calory		
	Supper calories = $277,78 \times 2 \checkmark MCA$	1MCA multiplying by 2		
	= 555,555 = 560 ✓ R	1R rounding (4)		
4.3	✓RT	1RT correct male calories	M	
	Maximum daily calory intake = 2 500 − 500 ✓ MA	1MA subtracting 500	L2	
	= 2 000 calories ✓ CA	1CA answer		
		(3)		
4.4	170 cm = 1,7 m ✓ C	1C conversion	M	
	$BMI = \frac{\text{mass in kg}}{(\text{height in m})^2}$		L3	
		1SF substitution		
	$23.1 \text{ kg/m}^2 = \frac{mass}{(1.7 \text{ m})^2} \checkmark \text{SF}$	1MA changing subject		
	Mass = 23,1 kg/m <sup>2</sup> × (1,7 m) <sup>2</sup> $\checkmark$ MA	1A answer		
	$= 66,759 \text{ kg} \checkmark \text{A}$	NPR		
		(4)		
4.5	$450^{\circ} = (1.8 \times {^{\circ}C}) + 32^{\circ} \checkmark SF$	1SF substitution	M	
	$^{\circ}$ C = $(450^{\circ} - 32^{\circ}) \div 1.8\checkmark$ MA	1MA changing subject	L4	
	°C = 232,222° °C = 230° ✓ AR	1 A D manual and		
	∴ Mac converted correctly. ✓ O	1AR rounded answer		
	was converted confectly.	1O opinion (4)		
4.6.1	Street map✓✓A	2A answer	MP	
		(2)	L1	
4.6.2	Francis Baard Street ✓ A	2A answer	MP	
		(2)	L2	



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4.6.3	Farenden Street; Arcadia Street ✓ A	1A first two correct streets	MP
	Beckett Street, Park Street ✓ A	1A second two correct streets	L2
	Farenden Street ✓A	1A last correct street	
		(3)	
		[24]	
		TOTAL:	100