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**education**  
**MPUMALANGA PROVINCE**  
**REPUBLIC OF SOUTH AFRICA**

**NATIONAL SENIOR CERTIFICATE**

**BOHLABELA DISTRICT**

**MATHEMATICAL LITERACY**  
**GRADE 12**  
**FEBRUARY 2025 MARKING GUIDELINES**

**MARKS: 70**

<b>Symbol</b>	<b>Explanation</b>
<b>M</b>	Method
<b>M/A</b>	Method with accuracy
<b>CA</b>	Consistent accuracy
<b>A</b>	Accuracy
<b>C</b>	Conversion
<b>S</b>	Simplification
<b>RT/RG/RD</b>	Reading from table/graph/diagram
<b>SF</b>	Correct substitution in formula
<b>O</b>	Opinion/Explanation
<b>P</b>	Penalty, e.g. for no units, incorrect rounding off, etc.
<b>R</b>	Rounding off
<b>AO</b>	Answer only
<b>NPR</b>	No penalty for rounding
<b>MCA</b>	Method with constant accuracy

**These marking guidelines consist of 7 pages**



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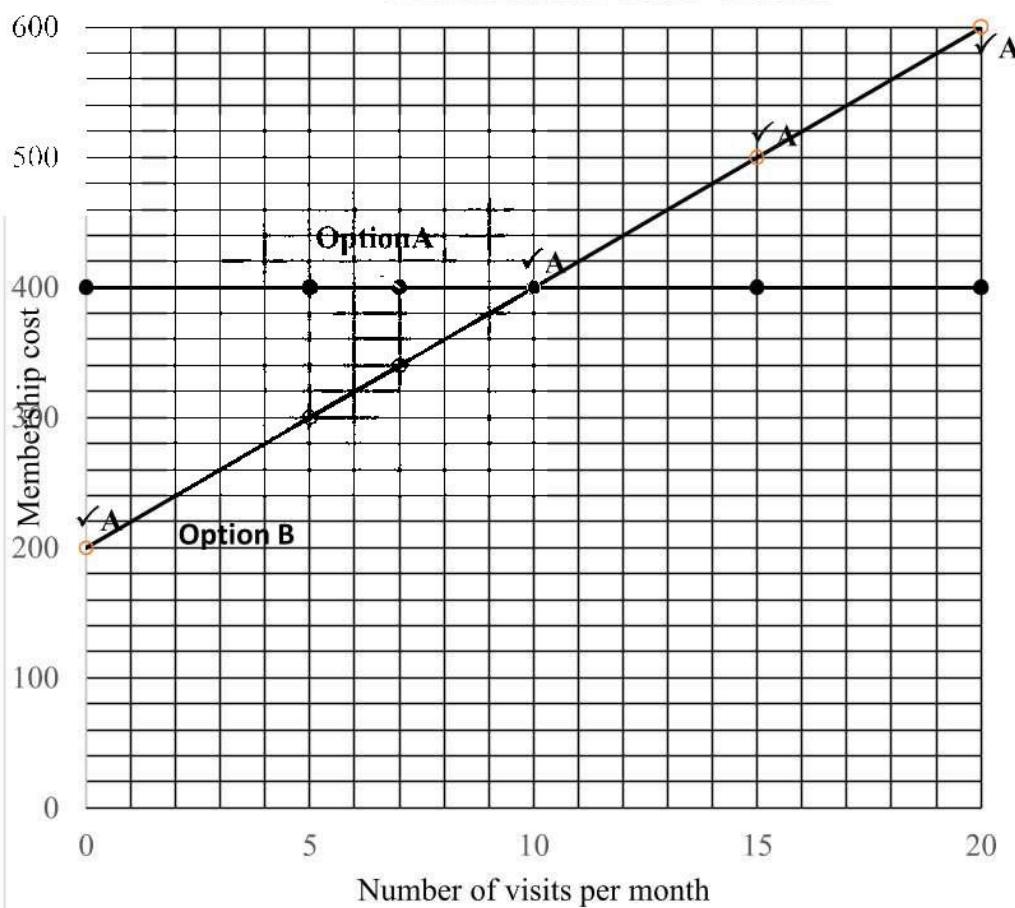
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- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- If the candidate presents any extra solution when reading from a graph, table, then penalize for every extra incorrect item presented.

<b>QUESTION 1[37] ANSWER ONLY FULL MARKS</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>Level</b>
1.1.1	C ✓✓A	2A correct letter (2)	F L1 E
1.1.2	✓✓A E	2A correct letter (2)	F L1 E
1.1.3	A ✓✓A	2A correct letter (2)	F L1 E
1.2.1 (a)	✓A ✓A ✓A Cost = R200 + R20 × (number of visits)  ✓A ✓A OR Cost = R200 + R20n  Where n = number of visits ✓A	1A fixed cost (R200) 1A multiplying with R20 1A number of visits n  (3)	F L2 M
1.2.1 (b)	P = 400 ✓✓A  Q = R340 ✓✓A	2A value of P  2A value of Q (4)	F L2 M
1.2.1 (C)	✓✓A Number of visits / n	2A correct variable (2)	F L1 E



1.2.2

**MEMBERSHIP COST GRAPH**D  
L2  
M**CA from 1.2.1 (b)**

1A starting point (0; 200)

1A (10; 400)

1A end point (20;600)

1A joining ALL the plotted points

1A labelling the graph

(5)

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1.3.1	Sample size = 7 ✓✓A Population size = 45 ✓A <b>OR</b> ✓✓A 7 and 45 ✓A	2A counting correctly 1A correct population <b>OR</b> 2A sample in correct order 1A population in correct order (3)	L1 M
1.3.2	Bar graph ✓✓A	2A correct graph (2)	D L1 E
1.3.3	4 is much lower/ much smaller compared to the other values in the data ✓✓A	2A correct reason (2)	D L4 E
1.3.4	Continuous ✓✓A	2A correct answer (2)	D L1 E
1.3.5	4 ; 19 ; 21 ; 24 ; 25 ; 30 ; 38 ✓✓A	2A correct order (2)	D L1 E
1.3.6	$\frac{5}{7}$ ✓A $= 0,7142857143$ $= 0,7$ ✓A	1A numerator 1A denominator 1A correct decimal <b>NPR</b> (3)	P L2 E
1.3.7	✓RT 7 : 45 ✓A 1: 6428571429 1: 64 ✓A	1RT both values 1A correct order  1A simplification <b>NPR</b> (3)	D L1 E
		[37]	



<b>QUESTION 2[21]</b>		<b>Explanation</b>	<b>Level</b>
<b>Ques</b>	<b>Solution</b>		
2.1.1	Annual income ✓✓A	2A correct answer (2)	F L2 E
2.1.2	Annual salary = $R32\ 750 \times 12$ ✓MA $= R393\ 000$ ✓A _____	1MA multiplying by 12 1A simplification (2)	F L1 M
2.1.3	Tax bracket C ✓✓A <b>OR</b> R77 362 + 31% of taxable income above R370 500	2A correct bracket (2)	F L2 E
2.1.4	Tax before rebate R77 362 + 31% of taxable income above R370 500 R77 362 + 31% ( $R393\ 000 - R370\ 500$ ) ✓SF R77 362 + 31% ( $R22\ 500$ ) R77 362 + R6 975 ✓MCA R 84 337 ✓CA Annual tax = R84 337 – R17 235 ✓RT = R67 102 ✓CA <b>OR</b> Annual tax payable ✓✓MA ✓SF ✓RT = R77 362 + 31% ( $R393\ 000 - R370\ 500$ ) – R17 235 = R67 102 ✓CA	CA from 2.1.3 1SF correct substitution 1MCA adding values 1CA simplification 1RT rebate: R17 235 1CA simplification <b>OR</b> 1SF correct substitution 2MCA adding values 1RT rebate : R17 235 1CA simplification (5)	F L3 M



Ques	Solution	Explanation	level																																								
2.2.1	<p>Cost before VAT:</p> <table border="1"> <thead> <tr> <th></th><th></th><th></th><th>Cost</th></tr> </thead> <tbody> <tr> <td>Block 1</td><td>6kl</td><td>free ✓RT</td><td>free</td></tr> <tr> <td>Block 2</td><td>6kl</td><td><math>6 \times 19,07</math></td><td>R114,42 ✓MA</td></tr> <tr> <td>Block 3</td><td>16kl</td><td><math>16 \times 24,65</math></td><td>R394,40 ✓MCA</td></tr> <tr> <td><b>TOTAL</b></td><td><b>28kl</b></td><td></td><td><b>R508,82</b></td></tr> </tbody> </table> <p>Cost before VAT = R508,82 ✓CA</p> <p>VAT inclusive = <math>R508,82 \times \frac{115}{100}</math> ✓MCA  <math>= R 585,14</math> ✓CA</p> <p style="text-align: center;"><b>OR</b></p> <p>Tariff with VAT :</p> <p>Block 2 = <math>R19,07 \times \frac{115}{100}</math> ✓MA  <math>= R21,9305</math> ✓CA</p> <p>Block 3 = <math>R24,65 \times \frac{115}{100}</math>  <math>= R28,3475</math> ✓MCA</p> <table border="1"> <thead> <tr> <th></th><th></th><th></th><th></th></tr> </thead> <tbody> <tr> <td>Block 1</td><td>6kl</td><td>free ✓RT</td><td></td></tr> <tr> <td>Block 2</td><td>6kl</td><td><math>\times 21,9305</math></td><td>R131,58</td></tr> <tr> <td>Block 3</td><td>16kl</td><td><math>\times 28,3475</math></td><td>R453,56 ✓MCA</td></tr> <tr> <td><b>Tot</b></td><td><b>28kl</b></td><td></td><td><b>R585,14 ✓CA</b></td></tr> </tbody> </table>				Cost	Block 1	6kl	free ✓RT	free	Block 2	6kl	$6 \times 19,07$	R114,42 ✓MA	Block 3	16kl	$16 \times 24,65$	R394,40 ✓MCA	<b>TOTAL</b>	<b>28kl</b>		<b>R508,82</b>					Block 1	6kl	free ✓RT		Block 2	6kl	$\times 21,9305$	R131,58	Block 3	16kl	$\times 28,3475$	R453,56 ✓MCA	<b>Tot</b>	<b>28kl</b>		<b>R585,14 ✓CA</b>	1RT both tariffs 1MA multiplying correct values 1MCA multiplying correct values 1CA total cost 1MCA multiplying by $\frac{115}{100}$ 1CA simplification 1MA multiplying by $\frac{115}{100}$ 1CA simplification 1MCA multiplying by $\frac{115}{100}$ 1RT both tariffs 1MCA multiplying correct values 1CA multiplying correct values (6)	F L3 D
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2.2.2	<p>Use a Bucket Instead of a Hose when washing cars/ Use small basins to bath / Don't leave the tap running while brushing teeth or washing dishes. Install low-flow showerheads, faucets, and dual-flush toilets /Reduce Shower Time ✓✓A</p>	2A opinion 2A opinion [Any two ] (4)	F L4 E																																								
		[21]																																									



<b>QUESTION 3 [12]</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>Level</b>
3.1	Pie chart ✓✓A	2A correct graph (2)	D L1 E
3.2	Three hundred and thirty nine million three hundred and three thousand and thirty seven rands. ✓✓A	2A correct answer (2)	D L1 E
3.3	Maintenance and materials $\checkmark RT$ $= 100\% - (50\% + 15\% + 7\% + 2\% + 12\%)$ $= 14\% \checkmark CA$	1RT ALL values 1MA adding and subtracting 1CA simplification (3)	D L1 E
3.4	Capital projects + Salaries = $50\% + 15\% \checkmark RT$ $= 65\% \checkmark MA$ $\checkmark RT$ $= R339\ 303\ 037 \times \frac{65}{100} \checkmark MA$ $= R220\ 546\ 974,1$  Her statement is valid ✓O  <b>OR</b> $\frac{\checkmark RT}{50} \times R339\ 303\ 037 = R169\ 651\ 518,5 \checkmark RT$ $\frac{15}{100} \times R339\ 303\ 037 = R508\ 95455,55 \checkmark MA$ $R169\ 651\ 518,5 + R508\ 95455,55 \checkmark MA$ $= 220\ 546\ 974,1$  Her statement is valid ✓O	1RT both percentages 1MA adding correct percentages 1RT total amount 1MA multiplying by $\frac{65}{100}$ 1O conclusion  <b>OR</b> 1RT both percentages 1RT total amount 1MA multiplying by % 1MA adding correct percentages 1O conclusion (5)	D L4 E
			<b>[12]</b>

