



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

NOVEMBER 2015

MEMORANDUM



MARKS: 150

Codes	Explanation
M	Method
MA	Method with Accuracy
CA	Consistent Accuracy
A	Accuracy
C	Conversion
D	Define
J	Justification/Reason/Explain
S	Simplification
RD	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
NP	No penalty for rounding OR omitting units

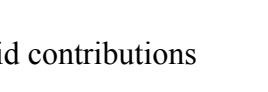
This memorandum consists of 17 pages.

KEY TO TOPIC SYMBOL:

F = Finance; M = Measurement; MP = Maps, Plans and other representations
DH = Data Handling; P = Probability

QUESTION 1 [38]			
Ques	Solution	Explanation	Level
1.1.1	$67 \times 2 + 16 \checkmark MA \\ = 150 \checkmark CA$	1MA multiply by 2 and adding 16 1CA simplifying Answer only full marks (2)	L1
1.1.2	$\checkmark M \checkmark A \\ \text{Cost} = R225,00 \times 152 = R34\,200$ OR $\checkmark M \\ \text{Number of persons} = R34\,200 \div R225 = 152 \checkmark A \\ (150 \text{ guests} + \text{bridal couple})$ OR $\checkmark M \checkmark A \\ \text{Cost per person} = R34\,200 \div 152 = R225$	1M multiply by R225 1A for 152 OR 1M divide by R225 1A number of persons OR 1M divide by 152 1A cost per person (2)	L1
1.1.3	$\% \text{ Reception costs} = \frac{R66\,450}{R125\,000} \times 100\% \\ = 53,16\% \checkmark CA$	1M correct fraction 1CA percentage Answer only full marks NP – rounding (2)	L1
1.1.4	$\text{Flowers and decor} = 1,8\% \times R125\,000 \checkmark M \\ = R2\,250 \checkmark A$	1M percentage 1A amount Answer only full marks (2)	L1

Ques	Solution	Explanation	Level
1.1.5	<p>Rand value = GHS 30 000 ÷ 0,32253 ✓M $\approx 93\ 014,60 \quad \checkmark A$</p> <p>Shortfall = R125 000 – R93 014,60 ✓M $= R31\ 985,40 \quad \checkmark CA$</p> <p style="text-align: center;">OR</p> <p>Cedi value = R125 000 × 0,32253 ✓MA $= \text{GHS } 40316,25$</p> <p>Shortfall = GHS 40 316,25 – GHS 30 000 ✓M $= \text{GHS } 10\ 316,25 \quad \checkmark A$</p> <p>Rand value = GHS 10 316,25 ÷ 0,32253 $= R31\ 985,40 \quad \checkmark CA$</p>	<p>1M divide 1A correct rounding</p> <p>1M subtraction 1CA amount</p> <p style="text-align: center;">OR</p> <p>1MA multiply</p> <p>1M subtraction 1A shortfall amount</p> <p>1CA amount</p>	L2
1.1.6	<p>$\frac{14}{100} \times R1\ 349 = R188,86 \quad \checkmark A$</p> <p>Cost including VAT = R1 349 + R188,86 ✓M $= R1\ 537,86 \quad \checkmark A$</p> <p>Selling price in cedi = $R1\ 537,86 \times 0,32253 \quad \checkmark M$ $\approx 496 \quad \checkmark CA$</p> <p style="text-align: center;">OR</p> <p>VAT inclusive cost = $R1\ 349 \times 1,14 \quad \checkmark M$ $= R1\ 537,86 \quad \checkmark A$</p> <p>Selling price in cedi = $1\ 537,86 \times 0,32253 \quad \checkmark M$ $\approx 496 \quad \checkmark CA$</p> <p style="text-align: center;">OR</p> <p>Price in cedi = $1\ 349 \times 0,32253 \quad \checkmark M$ $= 435,09 \quad \checkmark A$</p> <p>Selling price including VAT in cedi $= 435,09 \times 1,14 \quad \checkmark A \quad \checkmark M$ $\approx 496 \quad \checkmark CA$</p>	<p>1A multiply by 14% 1M adding amount 1A amount with VAT</p> <p>1M multiply by 0,32253 1CA value to nearest cedi</p> <p style="text-align: center;">OR</p> <p>1A working with 14% 1M multiply by 1,14 1A amount with VAT</p> <p>1M multiply by 0,32253 1CA value to nearest cedi</p> <p style="text-align: center;">OR</p> <p>1M multiply by 0,32253 1A cedi price</p> <p>1A working with 14% 1M multiply by 1,14 1CA value to nearest cedi</p>	L1

Ques	Solution	Explanation	Level
1.2.7	<p>Gross non-retirement funding income $= R15\ 521 + R26\ 188 + R8\ 640 \checkmark M \checkmark A$ $= R50\ 349$</p> <p style="text-align: center;">OR</p> <p>Adding the amounts with source codes 3605, 3713 and 3810</p>	<p>1M using the correct values/codes/words 1A addition</p>	L1
1.2.8	<p style="text-align: center;">OR</p> <p>Adding the annual payment other allowances and medical aid contributions</p>		(2)
1.2.8	<p>Remaining monthly contributions $\checkmark A$ $= R13\ 909 - R4\ 975,25$ $= R8\ 933,75 \checkmark CA$</p> <p style="text-align: center;">$\checkmark M$</p> <p>Average monthly contribution $= R8\ 933,75 \div 7 \checkmark A$ $= R1\ 276,25 \checkmark CA$</p>	<p>1A R13 909 1CA subtracting R4 975,25 1M dividing the remaining amount 1A by 7 1CA pension per month (only if division by 4,5,6,7)</p>	L2
			
		<p>Answer only full marks</p>	
			[38]

QUESTION 2 [31]			
Ques	Solution	Explanation	Level
2.1.1	<p>Total area of a rectangular piece = $30 \text{ cm} \times 12 \text{ cm}$ ✓SF $= 360 \text{ cm}^2$ ✓ A</p> <p>Off-cut piece = $360 \text{ cm}^2 - 355,25 \text{ cm}^2$ ✓M $= 4,75 \text{ cm}^2$ ✓CA</p> <p>Total off-cut piece for both sides = $4,75 \text{ cm}^2 \times 2$ ✓M $= 9,5 \text{ cm}^2$ ✓CA</p> <p style="text-align: center;">OR</p> <p>Total area of 2 rectangular pieces = $2 \times 30 \text{ cm} \times 12 \text{ cm}$ ✓SF $= 720 \text{ cm}^2$ ✓ A</p> <p>Area of both sides of stocking = $355,25 \text{ cm}^2 \times 2$ ✓M $= 710,5 \text{ cm}^2$</p> <p>Total off-cut piece = $720 \text{ cm}^2 - 710,5 \text{ cm}^2$ ✓M $= 9,5 \text{ cm}^2$ ✓CA</p> <p style="text-align: center;">OR </p> <p>Total off-cut area</p> $ \begin{aligned} &= (2 \times 30 \text{ cm} \times 12 \text{ cm}) - (355,25 \text{ cm}^2 \times 2) \\ &= 720 \text{ cm}^2 - 710,5 \text{ cm}^2 \\ &= 9,5 \text{ cm}^2 \end{aligned} $	<p>1SF substitution 1A simplifying</p> <p>1M subtraction 1CA area of off-cut</p> <p>1M multiply by 2 1CA area of off-cut</p> <p>1SF substitution 1M multiply by 2 1A simplifying</p> <p>1M multiply by 2</p> <p>1M subtraction 1CA area of off-cut</p>	L3

Answer only full marks

(6)

Ques	Solution	Explanation	Level
2.1.2	<p>Area of a triangle = $\left(\frac{1}{2} \times 3 \text{ cm} \times 5 \text{ cm}\right) \checkmark \text{SF}$ $= 7,5 \text{ cm}^2 \checkmark \text{A}$</p> <p>Area of 6 triangles = $7,5 \text{ cm}^2 \times 6 \checkmark \text{M}$ $= 45 \text{ cm}^2 \checkmark \text{CA}$</p> <p style="text-align: center;">OR</p> <p>Area of triangles = $\left(\frac{1}{2} \times 3 \text{ cm} \times 5 \text{ cm}\right) \times 6 \checkmark \text{M}$ $= 7,5 \text{ cm}^2 \times 6 \checkmark \text{A}$ $= 45 \text{ cm}^2 \checkmark \text{CA}$</p>	<p>1 SF substitution 1A simplifying 1M multiply by 6 1CA total area</p> <p style="text-align: center;">OR</p> <p>1 SF substitution 1M multiply by 6 1A simplifying 1CA total area</p>	L2
2.1.3	<p>Time taken = $9 \times 18 \text{ minutes}$ $= 162 \text{ minutes } \checkmark \text{MA}$ $= 2 \text{ h } 42 \text{ min OR } 2,7 \text{ h } \checkmark \text{EcoleBooks}$</p> <p>Finishing time = $08:25 + 2\text{h}42 \checkmark \text{M}$ $= 11:07 \checkmark \text{CA}$</p>	<p>1MA time in minutes 1C converting time</p> <p>1M adding 1CA finishing time correct notation</p>	L2

Ques	Solution	Explanation	Level
2.2	$\begin{aligned} \text{Number of reels along length} &= 195 \text{ mm} \div 23 \text{ mm} \\ &= 8,4782\dots \\ &\approx 8 \checkmark R \end{aligned}$ $\begin{aligned} \text{Number of reels along breadth} &= 120 \text{ mm} \div 23 \text{ mm} \\ &= 5,2173\dots \\ &\approx 5 \checkmark R \end{aligned}$ $\text{Total} = 5 \times 8 = 40 \checkmark CA$	1M dividing length by diameter 1A diameter 1R number rounded down 1R number rounded down 1CA total number <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Full marks for Total = $5 \times 8 = 40$ </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Max of 2 marks if divided by circle's area Max of 3 marks if divided by square area 1 mark for area of rectangle only </div>	L2
2.3.1	<p>Painted surface area of the lid</p> $\begin{aligned} &\checkmark A \quad \checkmark SF \\ &= 3,142 \times 3,6 \text{ cm} (3,6 + 2 \times 0,9) \text{ cm} \checkmark C \\ &\approx 61 \text{ cm}^2 \checkmark CA \end{aligned}$ <p style="text-align: center;">OR</p> <p>Painted surface area of the lid</p> $\begin{aligned} &\checkmark A \quad \checkmark SF \\ &= 3,142 \times 36 \text{ mm} (36 + 2 \times 9) \text{ mm} \\ &= 6108,05 \text{ mm}^2 \checkmark CA \\ &\approx 61 \text{ cm}^2 \checkmark C \end{aligned}$	1A radius 1SF substitution 1C conversion 1CA surface area to nearest cm ² OR 1A radius 1SF substitution 1CA surface area to nearest cm ² 1C conversion <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Max of 3 marks if inner radius used Max of 2 marks if units are mixed </div>	L2

Ques	Solution	Explanation	Level
2.3.2	<p>Capacity = $75\% \times 250 \text{ mL}$ ✓M $= 187,5 \text{ mL}$ ✓CA</p> <p>Volume = $187,5 \text{ cm}^3$</p> <p>Height of the water in the jar</p> $= \frac{\text{Volume of the water (in } \text{cm}^3\text{)}}{\pi \times \text{radius}^2}$ $= \frac{187,5 \text{ cm}^3}{3,142 \times (3,25 \text{ cm})^2} \quad \checkmark \checkmark \text{SF}$ $= \frac{187,5 \text{ cm}^3}{33,187375 \text{ cm}^2}$ $= 5,6497... \text{ cm} \checkmark \text{CA}$ $\approx 6 \text{ cm} \checkmark \text{R}$ <p style="text-align: center;">OR</p> $= \frac{\text{Volume of the water (in } \text{cm}^3\text{)}}{\pi \times \text{radius}^2}$ $= \frac{250 \text{ cm}^3}{3,142 \times (3,25 \text{ cm})^2} \quad \checkmark \checkmark \text{SF}$ $= \frac{250 \text{ cm}^3}{33,187375 \text{ cm}^2}$ $= 7,532... \text{ cm} \checkmark \text{CA}$ <p>Height of the water in the jar</p> $= 75\% \times 7,532... \text{ cm} \checkmark \text{M}$ $= 5,6497... \text{ cm} \checkmark \text{CA}$ $\approx 6 \text{ cm} \checkmark \text{R}$	<p>1M multiply by 75%</p> <p>1CA capacity in mL</p> <p>2SF substitution</p> <p>1CA simplification</p> <p>1R nearest cm</p> <p style="text-align: center;">OR</p> <p>2SF substitution</p> <p>1CA simplification</p> <p>1M multiply by 75%</p> <p>1CA height of water</p> <p>1R nearest cm</p>	L2
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Answer only full marks</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">(6)</div>	
2.3.3	$2 \times \frac{1}{16} = \frac{2}{16} = \frac{1}{8} \checkmark \text{A}$	<p>1M multiply by 2</p> <p>1A fraction</p> <p>Accept $\frac{2}{16}$</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Answer only full marks</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">(2)</div>	L1
			[31]



QUESTION 3 [24]			
Ques	Solution	Explanation	Level
3.1.1	Exit 3 ✓✓RD	2RD reading from plan (2)	L1
3.1.2	✓A No, there is no power outlet available in that seat ✓J	1A answer 1J reason (2)	L1
3.1.3	✓RD C 109 ✓RD	1RD correct row 1RD correct seat number (2)	L2
3.1.4	<p>Total seats = seats one side + seats in middle + seats other side = $(3+2\times 6+3\times 7+6\times 8+5)+(8+13+11\times 14+6)+$ $(3+5+6+3\times 7+5\times 8)$ ✓MA ✓MA ✓MA = $89+181+75$ = 345 ✓CA</p> 	3MA adding correct number of seats in each section 1CA total seats <div style="border: 1px solid black; padding: 2px;">Answer only full marks</div> <div style="border: 1px solid black; padding: 2px;">Max 2 marks if answer only 344 or 346</div> (4)	L1
3.1.5	104 and 110✓✓RD	2RD seat numbers (2)	L1
3.1.6	✓A Number of seats with access to a power supply = 52 Probability = $\frac{52}{345}$ ✓CA 	1A counting seat 1CA numerator 1CA writing as a denominator from 3.1.4 <div style="border: 1px solid black; padding: 2px; text-align: center;"> $\frac{27}{345}$ OR $\frac{9}{115}$ OR $\frac{54}{345}$ OR $\frac{18}{115}$ Max 2 </div> <div style="border: 1px solid black; padding: 2px;">Answer only full marks</div> (3)	L2
3.2.1	14 times ✓✓RD [Free State 15 times]	2RD reading from map If 13 one mark (2)	L1

Ques	Solution	Explanation	Level
3.2.2	Distance = $94,7 \text{ km} - 76 \text{ km}$ ✓MA = $18,7 \text{ km}$ ✓A	1MA subtracting from 94,7 1A distance <div style="border: 1px solid black; padding: 2px;">Answer only full marks</div> (2)	L1
3.2.3	Blue Hills ✓✓RD	2RD reading from map (2)	L1
3.2.4	✓RD ✓RD WP 4, WP 5, WP 6 ✓RD OR WP3 to WP4 , WP 4 to WP5 , WP5 to WP6 ✓✓✓RD	3RD reading from map OR 3RD reading from map <div style="border: 1px solid black; padding: 2px;">2 marks for W4 to W6</div> (3)	L1
			[24]



QUESTION 4 [30]			
Ques	Solution	Explanation	Level
4.1.1	<p>The data for the global regions is qualitative. ✓✓J</p> <p>OR</p> <p>The global regions cannot be expressed as numerical data ✓✓J</p>	<p>2J explanation</p> <p>OR</p> <p>2J explanation</p>	L1 (2)
4.1.2	5% ✓✓RT and 8% ✓RT	<p>3RT Correct modal %</p> <p>Two marks for first correct answer, one mark for second correct answer</p>	L1 (3)
4.1.3	$\text{Median} = \frac{7+8}{2}\% \checkmark\checkmark M$ $= 7,5\% \checkmark CA$	<p>2M for adding correct values and dividing by 2</p> <p>1CA answer</p> <p>Answer only full marks</p>	L2 (3)
4.1.4	Total usage = 3% + 8% + 11% = 22% ✓CA	<p>1RT correct values</p> <p>1CA total</p> <p>Answer only full marks</p>	L1 (2)
4.1.5	$2\% + 9\% + 23\% + 22\% = 56\% \checkmark CA$ <p>Note: Candidates that add the 4% of the Middle East is also correct.</p>	<p>2M Adding all correct values.</p> <p>1CA total</p> <p>Answer only full marks</p> <p>Answer only 60% full marks</p>	L1 (3)
4.1.6 (a)	16% ✓✓RG	2RG correct value	L1 (2)

Ques	Solution	Explanation	Level																																																				
4.1.6 (b)	<p style="text-align: center;">WORLD POPULATION AND MEANS OF COMMUNICATION PERCENTAGES PER GLOBAL REGION</p> <table border="1"> <caption>Data extracted from the graph</caption> <thead> <tr> <th>Global Region</th> <th>Percentage world population (%)</th> <th>Percentage Internet communication (%)</th> <th>Percentage cell phone communication (%)</th> </tr> </thead> <tbody> <tr><td>A</td><td>2</td><td>1</td><td>2</td></tr> <tr><td>B</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>C</td><td>4</td><td>3</td><td>4</td></tr> <tr><td>D</td><td>6</td><td>4</td><td>6</td></tr> <tr><td>E</td><td>9</td><td>5</td><td>10</td></tr> <tr><td>F</td><td>4</td><td>6</td><td>6</td></tr> <tr><td>G</td><td>6</td><td>7</td><td>7</td></tr> <tr><td>H</td><td>15</td><td>7</td><td>12</td></tr> <tr><td>I</td><td>25</td><td>7</td><td>18</td></tr> <tr><td>J</td><td>4</td><td>7</td><td>5</td></tr> <tr><td>K</td><td>6</td><td>12</td><td>7</td></tr> <tr><td>L</td><td>30</td><td>25</td><td>22</td></tr> </tbody> </table> <p style="text-align: center;">GLOBAL REGIONS</p>	Global Region	Percentage world population (%)	Percentage Internet communication (%)	Percentage cell phone communication (%)	A	2	1	2	B	1	1	1	C	4	3	4	D	6	4	6	E	9	5	10	F	4	6	6	G	6	7	7	H	15	7	12	I	25	7	18	J	4	7	5	K	6	12	7	L	30	25	22		
Global Region	Percentage world population (%)	Percentage Internet communication (%)	Percentage cell phone communication (%)																																																				
A	2	1	2																																																				
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J	4	7	5																																																				
K	6	12	7																																																				
L	30	25	22																																																				
1A mark for every TWO points plotted correctly (Penalty of one mark if points are not joined)			(1 × 6) (6) L2																																																				

Ques	Solution	Explanation	Level
4.1.7	South Asia OR I ✓✓RD	2RD reading from graph or table (2)	L1
4.2.1	$\text{Rural Number} = 7\ 095\ 476\ 818 \times 48\% \checkmark A$ $= 3\ 405\ 828\ 873 \quad \checkmark A$ <p style="text-align: center;">OR</p> $\text{Urban number} = 7\ 095\ 476\ 818 \times 52\% \checkmark A$ $= 3\ 689\ 647\ 945 \quad \checkmark A$ $\text{Rural} = 7\ 095\ 476\ 818 - 3\ 689\ 647\ 945$ $= 3\ 405\ 828\ 873 \quad \checkmark A$	1MA multiplying with % 1A 48 % 1A persons <p style="text-align: center;">OR</p> 1MA multiplying with % 1A urban number 1A persons <div style="border: 1px solid black; padding: 2px; display: inline-block;">Answer only full marks</div> (3)	L1
4.2.2	Social networking users $= \frac{1\ 856\ 680\ 860}{7\ 095\ 476\ 818} \times 100\% \quad \checkmark SF$  $= 26,167\dots\% \quad \checkmark CA$	1SF dividing the correct value by 7 095 476 818 1CA answer in % <div style="border: 1px solid black; padding: 2px; display: inline-block;">Answer only full marks</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">NP - rounding</div> (2)	L1
4.2.3	6 557 295 0124 ✓✓A	2A for correct digits (2)	L1
			[30]

Ques	Solution	Explanation	Level
5.1.5	<p>Sibiya: $\text{Increase} = \text{R1 970 000} - \text{R1 872 000} \checkmark M$ $= \text{R98 000}$</p> <p>Phillips: $\text{Increase} = \text{R1 700 000} - \text{R1 625 000} \checkmark M$ $= \text{R75 000}$</p> <p>Mabilane: $\text{Increase} = \text{R2 118 000} - \text{R2 032 000} \checkmark M$ $= \text{R86 000}$</p> <p>Magome: $\text{Increase} = \text{R1 963 000} - \text{R1 861 000} \checkmark A$ $= \text{R102 000}$ Magome received the greatest increase $\checkmark \checkmark CA$</p>	<p>2M subtracting any two of Sibiya, Phillips, Mabilane</p> <p>1A amount for Magome 2CA correct person</p> <p>Full marks if only Magome was calculated correctly with conclusion</p>	F L2
5.1.6	Mabunda MD $\checkmark \checkmark A$	2A the correct person	D L1
5.2.1	100% $\checkmark \checkmark A$	2A correct % Accept 100	P L1
5.2.2	$\begin{aligned} P &= \frac{14}{18} \checkmark A \\ &= \frac{7}{9} \checkmark CA \end{aligned}$ <p style="text-align: center;">OR</p> $P = 1 - \frac{4}{18} \checkmark A = \frac{7}{9} \checkmark CA$	<p>1A numerator 1A denominator 1CA simplification</p> <p>OR 1M subtracting from 1 1A denominator 1CA simplification</p> <p>Answer only full marks</p>	P L2

Ques	Solution	Explanation	Level
5.3	$\begin{aligned} \text{Growth 1 st year} &= 4\ 705\ 306 \times 5\% && \checkmark A \\ &\approx 235\ 265 && \checkmark M \\ \text{Total after the 1st year} &= 4\ 705\ 306 + 235\ 265 && \\ &= 4\ 940\ 571 && \checkmark CA \end{aligned}$ $\begin{aligned} \text{Growth 2nd year} &= 4\ 940\ 571 \times 5,9\% && \checkmark CA \\ &= 291\ 493 \text{ OR } 291\ 494 && \checkmark CA \end{aligned}$ $\begin{aligned} \text{Total after 2nd year} &= 4\ 940\ 571 + 291\ 493 && \checkmark CA \\ &= 5\ 232\ 064 \text{ OR } 5\ 232\ 065 && \checkmark CA \end{aligned}$ <p style="text-align: center;">OR</p> $\begin{aligned} 100\% + 5\% &= 105\% && \checkmark A \\ \text{Total after 1st year} &= 4\ 705\ 306 \times 105\% && \checkmark M \\ &= 4\ 940\ 571,3 && \checkmark CA \end{aligned}$ $\begin{aligned} 100\% + 5,9\% &= 105,9\% && \\ \text{Total after 2nd year} &= 4\ 940\ 571,3 \times 105,9\% && \checkmark CA \\ &= 5\ 232\ 065,007 && \\ &\approx 5\ 232\ 065 && \checkmark CA \end{aligned}$ <p style="text-align: center;">OR </p> $\begin{aligned} \text{Total after 2nd year} & \\ &= 4\ 705\ 306 \times 105\% \times 105,9\% && \checkmark M \checkmark A \checkmark M \checkmark A \\ &= 5\ 232\ 065,007 && \\ &\approx 5\ 232\ 065 && \checkmark CA \end{aligned}$	1A calculating 5% 1M adding 1CA first year total 1CA calculating 5,9% of total 1CA 2 nd year total OR 1A increasing with 5% 1M percentage calculation 1CA first year total 1CA increasing with 5,9% 1CA 2 nd year total, rounded OR 1M percentage calculation 1A increasing by 105% 1M percentage calculation 1A increasing by 105,9% 1CA 2 nd year total, rounded <div style="border: 1px solid black; padding: 2px; display: inline-block;">Answer only full marks</div>	D L3
		(5)	[27]

TOTAL: 150