



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

NOVEMBER 2016

FINAL MARKING GUIDELINE

MARKS: 150

Symbol	Explanation
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG	Reading from a table/graph/diagram
SF	Correct substitution in a formula
O	Opinion/Example/Definition/Explanation
P	Penalty, e.g. for no units, incorrect rounding off, etc.
R	Rounding off
NP	No penalty rounding or omitting units

This memorandum consists of 15 pages.

Question 1 [43 Marks]			
Ques	Solution	Explanation	Topic/L
1.1.1	Booyesen M ✓✓A	2A correct name (2)	F L1
1.1.2	July ✓A 2026 ✓A	1A correct month Accept 7 th month 1A correct year Answer Only Full Marks (2)	L1
1.1.3	R1 185 627,28 – R466 000,00 =R719 627,28 ✓CA ✓M/A	1M/A subtracting correct values 1CA difference Answer Only Full Marks NP (2)	L1
1.1.4	Total Admin. fee = R5,70 × 12 × 20 = R1 368 ✓CA ✓RT ✓M	1RT reading from table 1M multiplying correct total number of months 1CA total fee Answer Only Full Marks NP (3)	L1
1.1.5	7,25% + 0,5% = 7,75% ✓A ✓M	1M adding correct % 1A sum Answer Only Full Marks (2)	L1

Ques	Solution	Explanation	Topic/L
1.1.6	$\text{Amount without VAT} = \frac{R5,70}{114\%} \quad \checkmark\text{MA}$ $= R5,00$ $\checkmark\text{M}$ $\therefore \text{VAT amount} = R5,70 - R5,00 = R0,70 \quad \checkmark\text{CA}$ <p style="text-align: center;">OR</p> $\text{VAT amount} = \frac{14\%}{114\%} \times R5,70 \quad \checkmark\text{A}$ $= R0,70 \quad \checkmark\text{M}$ $\checkmark\text{CA}$	<p>1MA dividing by 114%</p> <p>1M subtracting 1CA VAT amount</p> <p>OR</p> <p>1M dividing by 114% 1A multiply by 14% 1CA VAT amount</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> <p style="text-align: right;">(3)</p>	L2
1.1.7	<p style="text-align: center;">$\checkmark\text{O}$</p> <p>An amount advanced/borrowed to buy a house/flat/residential property $\checkmark\text{O}$</p> <p style="text-align: center;">OR</p> <p>Money borrowed to buy a house</p>	<p>1O Amount borrowed</p> <p>1O buying a house/flat/residential property</p> <p style="text-align: right;">(2)</p>	L1
1.1.8	B $\checkmark\checkmark\text{A}$	<p>2A correct reason Accept C</p> <p style="text-align: right;">(2)</p>	L1
1.1.9 (a)	$R383\,159,13 - R383\,158,37 \quad \checkmark\text{MA}$ $= R0,76 \quad \checkmark\text{CA}$	<p>1M/A subtracting correct values 1CA simplification from balance column for October</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> <p style="text-align: right;">(2)</p>	L1
1.1.9 (b)	Credit $\checkmark\checkmark\text{A}$	<p>2A correct column</p> <p style="text-align: right;">(2)</p>	L1
1.1.10	$\text{Interest} = \frac{R378\,123,87 \times 31 \times 7,25\%}{365} \quad \checkmark\text{A} \quad \checkmark\text{SF}$ $= R2\,328,31 \quad \checkmark\text{CA}$	<p>1A 31 days 1SF correct balance and % 1CA interest</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> <p>NP</p> <p style="text-align: right;">(3)</p>	L2

Ques	Solution	Explanation	Topic/L
1.2.1	$\checkmark\checkmark\text{O}$ The cost that changes (not fixed/not constant/differs) depending on the number of persons.	2O explanation (2)	L1
1.2.2	$\checkmark\text{A}$ $\checkmark\text{A}$ Total cost (in Rand) = 6 000 + 230 × 45 = 6 000 + 10 350 = 16 350 $\checkmark\text{CA}$	1A substituting 6 000 1A substituting 45 1CA cost <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Answer Only Full Marks </div> (3)	L2
1.2.3 (a)	Avon $\checkmark\checkmark\text{RG}$	2RG reading from graph (2)	L1
1.2.3 (b)	200 $\checkmark\checkmark\text{RG}$	2RG reading from graph Accept 160 (2)	L1

Ques	Solution	Explanation	Topic/ L
1.2.4 (a)	<p style="text-align: center;">TOTAL COST FOR EACH OF THE THREE VENUES</p> <p>Amount in Rand</p> <p>Number of persons</p> <p>— -AVON - . -BEACH — CASTLE</p> <p>1A starting point (0 ; 0) 1A end point of (200 ; 30 000) 1CA joining points 1A straight line</p>		L2

(4)

Ques	Solution	Explanation	Topic/L
1.2.4 (b)	<p>Cost for 250 persons = R11 000 + R25 × 250 ✓SF = R17 250 ✓CA</p> <p>Income from 194 tickets = R150 × 194 ✓MA = R29 100 ✓A</p> <p>Profit = R29 100 – R17 250 = R11 850 ✓CA</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"> ✓SF ✓M </p> <p>Profit = (R11 000 + R25 × 250) – (R150 × 194) ✓CA ✓A</p> <p>= R29 100 – R17 250 = R11 850 ✓CA</p>	<p>1SF substitution 1CA cost</p> <p>1MA multiplication 1A income</p> <p>1CA profit</p> <p style="text-align: center;">OR</p> <p>1SF substitution 1M multiplication 1CA cost 1A income 1CA profit</p> <p>Note: If readings are taken from graphs then: Cost (accept range from 17 000 to 17 500) - 2 marks Income (accept range from 28 900 to 29 300) - 2 marks Full marks can only be given if the profit is exactly R11 850</p> <p>NP</p>	L3
		(5)	
		[43]	

QUESTION 2 [29 MARKS]			
Ques	Solution	Explanation	Topic/L
2.1.1 (a)	$d = 4,2 \text{ m} - (1,2 \text{ m} + 1,8 \text{ m}) \quad \checkmark M$ $= 1,2 \text{ m} \quad \checkmark A$ $= 1\,200 \text{ mm} \quad \checkmark C$ <p>OR</p> $d = 4200 \text{ mm} - (1\,200 \text{ mm} + 1800 \text{ mm}) \quad \checkmark M \quad \checkmark C$ $= 1\,200 \text{ mm} \quad \checkmark A$	1M subtracting 1A value 1C conversion	L1
		<p>OR</p> 1M subtracting 1C conversion 1A value	
		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Answer Only Full Marks </div>	
		(3)	
2.1.1 (b)	$15\text{m} + 1,2 \text{ m} + 1,2 \text{ m} + 4,2 \text{ m} + 1,2 \text{ m} + 1,2 \text{ m} + 15 \text{ m} \quad \checkmark MA$ $= 39 \text{ m} \quad \checkmark CA$ $= 39\,000\text{mm} \quad \checkmark C$ <p style="text-align: center;">OR</p> $15 \text{ m} \times 2 + 1,2 \text{ m} \times 4 + 4,2 \text{ m} = 39 \text{ m} \quad \checkmark CA$ $= 39\,000 \text{ mm} \quad \checkmark C$	1M/A adding all values 1CA total length 1C conversion	L1
		<p style="text-align: center;">OR</p> 1M/A adding all values 1CA total length 1C conversion	
		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Answer Only Full Marks </div>	
		(3)	
2.1.1 (c)	$\text{Total area} = 1,8 \text{ m} \times 15 \text{ m} + 1,2 \text{ m} \times 4,2 \text{ m} \quad \checkmark SF$ $= 27 \text{ m}^2 + 5,04 \text{ m}^2 \quad \checkmark S$ $= 32,04 \text{ m}^2 \quad \checkmark A \quad \checkmark A$ <p style="text-align: center;">OR</p> $\text{Total area} = 2(1,2 \times 1,2) \text{ m}^2 + [1,8 \times (15 + 1,2)] \text{ m}^2 \quad \checkmark S \quad \checkmark SF$ $= 2,88 \text{ m}^2 + 29,16 \text{ m}^2$ $= 32,04 \text{ m}^2 \quad \checkmark A \quad \checkmark A$ <p style="text-align: center;">OR</p> $\text{Total area} = [2(1,2 \times 1,2) + (1,8 \times 15) + (1,8 \times 1,2)] \text{ m}^2 \quad \checkmark S \quad \checkmark SF$ $= [2,88 + 27 + 2,16] \text{ m}^2$ $= 32,04 \text{ m}^2 \quad \checkmark A \quad \checkmark A$ <p style="text-align: center;">OR</p>	1SF substituting 1S simplification 1A area 1A correct unit	L2
		<p style="text-align: center;">OR</p> 1SF substituting 1S simplification 1A area 1A correct unit	
		<p style="text-align: center;">OR</p> 1SF substituting 1S simplification 1A area 1A correct unit	
		OR	

Ques	Solution	Explanation	Topic/L
	$\begin{aligned} \text{Total area} &= 16,2 \text{ m} \times 4,2 \text{ m} - 2 \times (1,2 \text{ m} \times 15 \text{ m}) \\ &= 68,04 \text{ m}^2 - 36 \text{ m}^2 \\ &= 32,04 \text{ m}^2 \end{aligned}$	1SF substituting 1S simplification 1A area 1A correct unit Max 2 out of 4 if only one area correctly calculated with unit (4)	
2.1.1 (d)	$\begin{aligned} \frac{1}{3} \text{ of the length of the hall} &= 16,2 \text{ m} \\ \text{Length of hall} &= 16,2 \text{ m} \times 3 \text{ OR } 16,2 \text{ m} \div \frac{1}{3} \\ &= 48,6 \text{ m} \end{aligned}$	1A length of runway 1M multiply by 3 1CA length of hall Answer Only Full Marks (3)	L1
2.1.2	$\begin{aligned} 4,2 \text{ m} &= \frac{4,2}{0,3048} \text{ feet} \\ &= 13,7795.. \text{ feet} \\ &\approx 13,8 \text{ feet} \end{aligned}$	1M dividing by conversion factor 1S simplification 1R rounding Answer Only Full Marks (3)	L2
2.2.1	$\begin{aligned} 3\,456 \text{ cm}^3 &= A^2 \times 24 \text{ cm} \\ A^2 &= 3\,456 \text{ cm}^3 \div 24 \text{ cm} \\ &= 144 \text{ cm}^2 \\ A &= \sqrt{144} \text{ cm} \\ &= 12 \text{ cm} \end{aligned}$ <p style="text-align: center;">OR</p> $\begin{aligned} A &= \sqrt{\frac{3\,456}{24}} \\ &= 12 \text{ cm} \end{aligned}$	1SF substitute into formula 1C conversion to cm 1CA simplification 1CA length of A OR 1SF substitute into formula 1C conversion to cm 1CA simplification 1CA length of A Answer Only Full Marks (4)	L2

Ques	Solution	Explanation	Topic/L
2.2.2	$\begin{aligned} \text{Area of one label} &= (1 + 2 \times 3,142 \times 7) \times 24 \text{ cm} \\ &= 1\,079,712 \text{ cm}^2 \quad \checkmark \text{A} \\ \text{Total area of labels} &= 1\,079,712 \text{ cm}^2 \times 76 \\ &= 82\,058,112 \text{ cm}^2 \\ &\approx 82\,058 \text{ cm}^2 \quad \checkmark \text{R} \end{aligned}$ <p style="text-align: center;">OR</p> $\begin{aligned} \text{Total area of labels} &= [(1 + 2 \times 3,142 \times 7) \times 24 \text{ cm}] \times 76 \\ &= 82\,058,112 \text{ cm}^2 \\ &\approx 82\,058 \text{ cm}^2 \quad \checkmark \text{R} \end{aligned}$	<p>1SF substitute into formula 1A area of one label 1M multiply by 76</p> <p>1R rounding (accept 82 059)</p> <p style="text-align: center;">OR</p> <p>1SF substitute into formula 1A area of one label 1M multiply by 76 1R rounding (accept 82 059)</p> <p>Penalise with one mark if π on calculator is used</p> <p style="text-align: right;">(4)</p>	L2
2.2.3	$\begin{aligned} \text{Volume of cylinder} &= 3,142 \times 7^2 \times 24 \text{ cm}^3 \quad \checkmark \text{SF} \\ &= 3\,694,99 \text{ cm}^3 \quad \checkmark \text{A} \\ \text{Difference in volume} &= 3\,694,99 \text{ cm}^3 - 3\,456 \text{ cm}^3 \\ &= 238,99 \text{ cm}^3 \end{aligned}$ <p style="text-align: center;">OR</p> $\begin{aligned} \text{Difference in volume} &= 3,142 \times 7^2 \times 24 \text{ cm}^3 - 3\,456 \text{ cm}^3 \\ &= 238,99 \text{ cm}^3 \end{aligned}$	<p>1SF substitute into formula 1A volume of cylinder 1M/A show how volume was obtained</p> <p style="text-align: center;">OR</p> <p>1SF substitute into formula 1A volume of cylinder 1M/A show how volume was obtained NP</p> <p style="text-align: right;">(3)</p>	L2
2.2.4	kilograms or kg or g $\checkmark \checkmark \text{A}$	2A unit	L1
		(2)	
		[29]	

QUESTION 3 [28 MARKS]			
Ques	Solution	Explanation	Topic/L
3.1.1	Row A = 15 ; Row B = 16 ; Row C = 18 Row D = 19 ; Row E = 21 ; Row F = 22 ✓A Row G = 24 ; Row H = 25 ; Row J = 26 $\begin{aligned} \text{Total} &= 15 + 16 + 18 + 19 + 21 + 22 + 24 + 25 + 26 \\ &= 186 \quad \checkmark\text{CA} \end{aligned}$ <p style="text-align: center;">OR</p> $\begin{aligned} \text{Total} &= 432 - \text{total left block} - \text{total right block} \quad \checkmark\text{M} \\ &= 432 - 121 - 125 \quad \checkmark\text{A} \\ &= 186 \quad \checkmark\text{CA} \end{aligned}$ <p style="text-align: center;">OR</p> $\begin{aligned} \text{Total} &= (32 + 33 + 35 + 36 + 38 + 39 + 41 + 42 + 43) - (17 \times 9) \\ &= 339 - 153 \quad \checkmark\text{M} \\ &= 186 \quad \checkmark\text{CA} \end{aligned}$	1A number in seats in row A – J 1M adding 1CA total <p style="text-align: center;">OR</p> 1M subtracting 1A totals for both blocks 1CA total <p style="text-align: center;">OR</p> 1A number of seats in right block 1M subtracting additional seats 1CA total <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: fit-content;"> Answer Only Full Marks 185 or 187 two marks </div>	L1
3.1.2	North West/NW ✓✓A	2A direction (2)	L1
3.1.3	H30 ✓✓✓A OR 8 th row from the stage seat 30 OR second row from the back seat 30	3A if row AND seat are correct 2A if either row OR seat is correct (3)	L1
3.1.4	Exit towards the left/ aisle ✓A Turn left in the aisle ✓A Walk straight to entrance/exit 1. ✓A At entrance/exit 1 the refreshment stand will be on the right. ✓A	1A Exit to left/ aisle 1A turn left in aisle 1A walk towards entrance/exit 1 1A location of refreshment stand (4)	L2

Ques	Solution	Explanation	Topic/L
3.1.5	$87\frac{1}{2}\% \times 432 = 378$ \checkmark MA OR $0,875 \times 432 = 378$ $P = \frac{1}{378}$ \checkmark A OR $0,26\%$ OR $0,0026$ \checkmark CA	1MA calculating % of 432 (CA from Q 3.1.1) 1A numerator 1CA denominator <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div>	P L2
		(3)	
3.1.6	20% $\checkmark\checkmark$ A	2A correct decimal (2)	P L1
3.2.1 (a)	Unscrewed $\checkmark\checkmark$ A	2A unscrewed (2)	L1
3.2.1 (b)	Anti-clockwise OR left OR counter-clockwise $\checkmark\checkmark$ A	2A direction (2)	L1
3.2.2	3 $\checkmark\checkmark$ A	2A 3 screws (2)	L2
3.2.3	3 $\checkmark\checkmark$ A \checkmarkM	2A correct diagram (2)	L1
3.2.4	Actual length = $62 \text{ mm} \times 30$ OR $6,2 \text{ cm} \times 30$ = $1\,860 \text{ mm}$ \checkmark A = 186 cm = $1,86 \text{ m}$ \checkmark C = $1,86 \text{ m}$ <div style="text-align: center;">OR</div> Actual length = $0,062 \text{ m} \times 30$ \checkmark C \checkmark M = $1,860 \text{ m}$ \checkmark CA	1M multiply by scale 1A length in mm/cm 1C conversion <div style="text-align: center;">OR</div> 1C conversion 1M multiply by scale 1CA length in m <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div>	L2
		(3)	
		[28]	

QUESTION 4 [30 MARKS]			
Ques	Solution	Explanation	Topic/L
4.1.1	$\checkmark A \quad \checkmark M$ $322,15 - 180,29 \text{ mph}$ $= 141,86 \text{ mile per hour } \checkmark CA$	1A identify correct highest and lowest values 1M subtraction 1CA difference <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> NP (3)	L1
4.1.2	14 $\checkmark \checkmark RT$	2RT correct number of riders (2)	L1
4.1.3	$\checkmark RT \quad \checkmark RT$ 1990 and 2006 16 years $\checkmark CA$	1RT first year 1RT second year 1CA number of years Accept 17 years (3)	L1
4.1.4	Ernest J Henne $\checkmark \checkmark RT$ 6 times $\checkmark A$	2RT name of rider 1A number of times (3)	L1
4.1.5	$\checkmark A$ $\frac{5}{25} \times 100\%$ $\checkmark A$ $= 20\% \quad \checkmark CA$	1A number of years in 21 st century 1A total number of years 1CA probability as percentage <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> (3)	P L3
4.2.1	$\checkmark \checkmark O$ The number of children can only be whole numbers. OR $\checkmark \checkmark O$ The number of children cannot be decimals/fractions	2O explanation OR 2O explanation (2)	L1
4.2.2	16 to 18 $\checkmark \checkmark RT$	2RT identify correct age group (2)	L1
4.2.3	2007 $\checkmark \checkmark RT$	1RT identify correct year (2)	L1

Ques	Solution	Explanation	Topic/L																											
4.2.4	$A = 209\,309 + 539\,177$ $= 748\,486$	1RT correct values 1A value of A Answer Only Full Marks (2)	L1																											
4.2.5	$B = \frac{194\,901}{9\,281\,000} \times 100$ $= 2,1$	1RT correct values 1M multiply by 100 1CA value of B (3)	L1																											
4.2.6	<p style="text-align: center;">PERCENTAGES OF CHILDREN IN THE AGE GROUP 16 to 18 NOT ATTENDING ANY EDUCATIONAL INSTITUTION FROM 2002 TO 2009</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>Data for Question 4.2.6</caption> <thead> <tr> <th>Year</th> <th>Percentage</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>2002</td> <td>17.6</td> <td></td> </tr> <tr> <td>2003</td> <td>17.2</td> <td></td> </tr> <tr> <td>2004</td> <td>17.3</td> <td>✓A</td> </tr> <tr> <td>2005</td> <td>17.8</td> <td>✓A</td> </tr> <tr> <td>2006</td> <td>17.5</td> <td>✓A</td> </tr> <tr> <td>2007</td> <td>14.8</td> <td>✓A</td> </tr> <tr> <td>2008</td> <td>16.2</td> <td>✓CA</td> </tr> <tr> <td>2009</td> <td>16.7</td> <td></td> </tr> </tbody> </table> <p>4A (1 for each two correctly plotted point) 1CA joining the points (5)</p>		Year	Percentage	Annotation	2002	17.6		2003	17.2		2004	17.3	✓A	2005	17.8	✓A	2006	17.5	✓A	2007	14.8	✓A	2008	16.2	✓CA	2009	16.7		L2
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2002	17.6																													
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2008	16.2	✓CA																												
2009	16.7																													
[30]																														

QUESTION 5 [20 MARKS]			
Ques	Solution	Explanation	Topic/L
5.1	United Kingdom OR Britain ✓✓RT	2RT correct country (2)	D L1
5.2	<p>1 South African rand = 0,070 US dollar</p> $\therefore \$1,94 = R \frac{1,94}{0,07} \quad \checkmark M$ $= R27,71 \quad \checkmark A$ <p style="text-align: center;">OR</p> $R95,57 \div \$6,69 = 14,2855\dots \quad \checkmark M$ $\$1,94 \times 14,2855\dots = R27,71 \quad \checkmark A$	<p>1M dividing by exchange rate 1A rand value</p> <p style="text-align: center;">OR</p> <p>1M dividing by price in dollar 1A rand value</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> <p style="text-align: right;">(2)</p>	F L2
5.3.1	$A = \frac{113,96}{16,28} \text{ euro} \quad \checkmark M$ $= 7 \text{ euro} \quad \checkmark A$	<p>1M dividing by exchange rate 1A euro value with unit</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> <p style="text-align: right;">(2)</p>	F L2
5.3.2	$B = \frac{56,07}{267} \quad \checkmark M$ $= 0,21 \quad \checkmark A$ <p>1 Indian Rupee equals 0,21 South African rand</p>	<p>1M dividing by exchange rate 1A rand value</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> <p style="text-align: right;">(2)</p>	F L2
5.4	$\text{SGD } \$ 8,00 : \text{SGD } \$ 2,50 \quad \checkmark A \quad \checkmark MA$ $= 16 : 5 \quad \checkmark CA$	<p>1A identifying the correct values 1MA ratio in correct order 1CA simplified ratio</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> <p style="text-align: right;">(3)</p>	F L1

Ques	Solution	Explanation	Topic/ L
5.5	\checkmark RT United States of America and Brazil \checkmark RT	1RT United States of America 1RT Brazil (2)	D L1
5.6	\checkmark O A median is the middle value of the arranged/ordered/sorted data. \checkmark O	1O middle value 1O arranged/ordered/sorted (2)	D L1
5.7.1	\checkmark RT R118,75; R113,96; R99,30; R95,57; R95,22; R92,88; R84,21; R69,57; R62,40; R56,07; R50 \checkmark A	1RT correct values 1A correct order NP (2)	D L1
5.7.2	Mean (in rand) = \checkmark M $\frac{50 + 56,07 + 62,40 + 69,57 + 84,21 + 92,88 + 95,22 + 95,57 + 99,30 + 113,96 + 118,75}{11} \checkmark$ A $= \frac{937,93}{11}$ $\approx 85,27 \checkmark$ CA	1M adding values 1A dividing by 11 (check CA from Q 5.7.1) 1CA mean <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Answer Only Full Marks </div> (3)	D L2
		[20]	
TOTAL			150