



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## **NATIONAL SENIOR CERTIFICATE**

**GRADE 12**

**MATHEMATICAL LITERACY P1**

**NOVEMBER 2016**

**FINAL MARKING GUIDELINE**

**MARKS: 150**

<b>Symbol</b>	<b>Explanation</b>
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.**

<b>Question 1 [43 Marks]</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>Topic/L</b>
1.1.1	Booyesen M ✓✓A	2A correct name (2)	F L1
1.1.2	July ✓A 2026 ✓A	1A correct month Accept 7 <sup>th</sup> 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;"><b>OR</b></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><b>OR</b></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;"><math>\checkmark\text{O}</math></p> <p>An amount advanced/borrowed to buy a house/flat/residential property <math>\checkmark\text{O}</math></p> <p style="text-align: center;"><b>OR</b></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; width: fit-content; margin: 10px auto;">             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;"><b>TOTAL COST FOR EACH OF THE THREE VENUES</b></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;"><b>OR</b></p> <p style="text-align: center;"> <span style="margin-right: 100px;">✓SF</span> <span>✓M</span> </p> <p>Profit = (R11 000 + R25 × 250) – (R150 × 194)  <span style="margin-left: 40px;">✓CA</span> <span style="margin-left: 100px;">✓A</span></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;"><b>OR</b></p> <p>1SF substitution 1M multiplication 1CA cost 1A income 1CA profit</p> <p><b>Note:</b> 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)	
		<b>[43]</b>	

<b>QUESTION 2 [29 MARKS]</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>Topic/L</b>
2.1.1 (a)	$d = 4,2 \text{ m} - (1,2 \text{ m} + 1,8 \text{ m}) \quad \checkmark M$ $= 1,2 \text{ m} \quad \checkmark A$ $= 1\,200 \text{ mm} \quad \checkmark C$  <b>OR</b> $d = 4200 \text{ mm} - (1\,200 \text{ mm} + 1800 \text{ mm}) \quad \checkmark M \quad \checkmark C$ $= 1\,200 \text{ mm} \quad \checkmark A$	1M subtracting 1A value 1C conversion  <b>OR</b> 1M subtracting 1C conversion 1A value  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">             Answer Only              Full Marks           </div> (3)	L1
2.1.1 (b)	$15\text{m} + 1,2 \text{ m} + 1,2 \text{ m} + 4,2 \text{ m} + 1,2 \text{ m} + 1,2 \text{ m} + 15 \text{ m} \quad \checkmark MA$ $= 39 \text{ m} \quad \checkmark CA$ $= 39\,000\text{mm} \quad \checkmark C$  <b>OR</b> $15 \text{ m} \times 2 + 1,2 \text{ m} \times 4 + 4,2 \text{ m} = 39 \text{ m} \quad \checkmark CA$ $= 39\,000 \text{ mm} \quad \checkmark C$	1M/A adding all values 1CA total length 1C conversion  <b>OR</b> 1M/A adding all values 1CA total length 1C conversion  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">             Answer Only              Full Marks           </div> (3)	L1
2.1.1 (c)	$\text{Total area} = 1,8 \text{ m} \times 15 \text{ m} + 1,2 \text{ m} \times 4,2 \text{ m} \quad \checkmark SF$ $= 27 \text{ m}^2 + 5,04 \text{ m}^2 \quad \checkmark S$ $= 32,04 \text{ m}^2 \quad \checkmark A \quad \checkmark A$  <b>OR</b> $\text{Total area} = 2(1,2 \times 1,2) \text{ m}^2 + [1,8 \times (15 + 1,2)] \text{ m}^2 \quad \checkmark S \quad \checkmark SF$ $= 2,88 \text{ m}^2 + 29,16 \text{ m}^2$ $= 32,04 \text{ m}^2 \quad \checkmark A \quad \checkmark A$  <b>OR</b> $\text{Total area} = [2(1,2 \times 1,2) + (1,8 \times 15) + (1,8 \times 1,2)] \text{ m}^2 \quad \checkmark S \quad \checkmark SF$ $= [2,88 + 27 + 2,16] \text{ m}^2$ $= 32,04 \text{ m}^2 \quad \checkmark A \quad \checkmark A$  <b>OR</b>	1SF substituting 1S simplification 1A area 1A correct unit  <b>OR</b> 1SF substituting 1S simplification 1A area 1A correct unit  <b>OR</b> 1SF substituting 1S simplification 1A area 1A correct unit  <b>OR</b>	L2

Ques	Solution	Explanation	Topic/L
	$\begin{aligned} \text{Total area} &= 16,2 \text{ m} \times 4,2 \text{ m} - 2 \times (1,2 \text{ m} \times 15 \text{ m}) \\ &= 68,04 \text{ m}^2 - 36 \text{ m}^2 \checkmark \text{S} \\ &= 32,04 \text{ m}^2 \\ &\quad \checkmark \text{A} \quad \checkmark \text{A} \end{aligned}$	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)	$\begin{aligned} \frac{1}{3} \text{ of the length of the hall} &= 16,2 \text{ m} \checkmark \text{A} \\ \text{Length of hall} &= 16,2 \text{ m} \times 3 \text{ OR } 16,2 \text{ m} \div \frac{1}{3} \checkmark \text{M} \\ &= 48,6 \text{ m} \checkmark \text{CA} \end{aligned}$	1A length of runway  1M multiply by 3 1CA length of hall  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">                         Answer Only                          Full Marks                     </div> (3)	L1
2.1.2	$\begin{aligned} 4,2 \text{ m} &= \frac{4,2}{0,3048} \text{ feet} \checkmark \text{M} \\ &= 13,7795.. \text{ feet} \checkmark \text{S} \\ &\approx 13,8 \text{ feet} \checkmark \text{R} \end{aligned}$	1M dividing by conversion factor  1S simplification 1R rounding  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">                         Answer Only                          Full Marks                     </div> (3)	L2
2.2.1	$\begin{aligned} 3\,456 \text{ cm}^3 &= A^2 \times 24 \text{ cm} \checkmark \text{SF} \quad \checkmark \text{C} \\ A^2 &= 3\,456 \text{ cm}^3 \div 24 \text{ cm} \\ &= 144 \text{ cm}^2 \checkmark \text{CA} \\ A &= \sqrt{144} \text{ cm} \\ &= 12 \text{ cm} \checkmark \text{CA} \end{aligned}$ <p style="text-align: center;"><b>OR</b></p> $\begin{aligned} A &= \sqrt{\frac{3\,456}{24}} \checkmark \text{SF} \quad \checkmark \text{C} \\ &\quad \checkmark \text{CA} \\ &= 12 \text{ cm} \checkmark \text{CA} \end{aligned}$	1SF substitute into formula 1C conversion to cm 1CA simplification 1CA length of A  <p style="text-align: center;"><b>OR</b></p> 1SF substitute into formula 1C conversion to cm 1CA simplification 1CA length of A  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">                         Answer Only                          Full Marks                     </div> (4)	L2

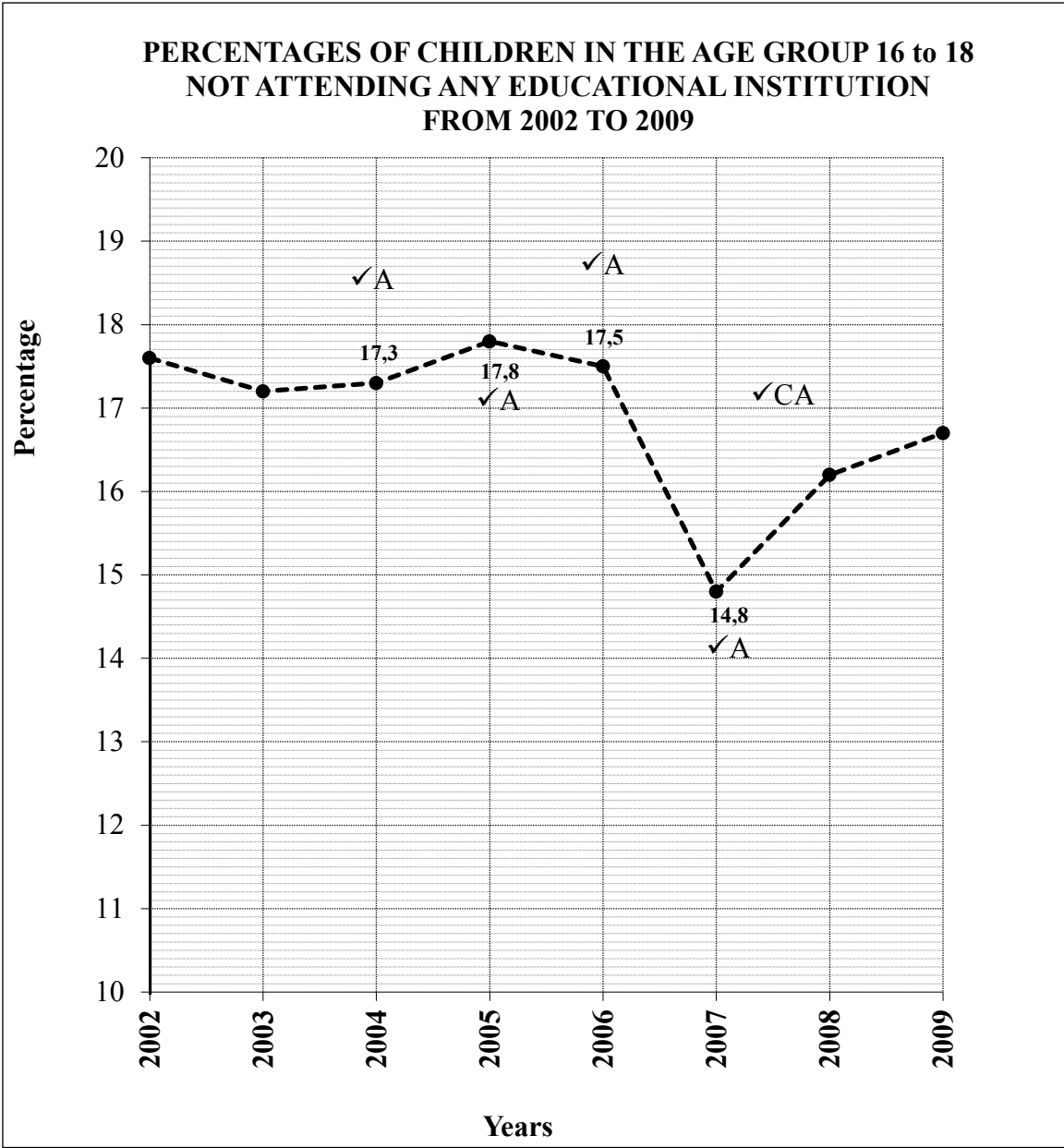


Ques	Solution	Explanation	Topic/L
2.2.2	$\begin{aligned} \text{Area of one label} &= (1 + 2 \times 3,142 \times 7) \times 24 \text{ cm} \\ &= 1\,079,712 \text{ cm}^2 \quad \checkmark \text{A} \\ \text{Total area of labels} &= 1\,079,712 \text{ cm}^2 \times 76 \\ &= 82\,058,112 \text{ cm}^2 \\ &\approx 82\,058 \text{ cm}^2 \quad \checkmark \text{R} \end{aligned}$ <p style="text-align: center;"><b>OR</b></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;"><b>OR</b></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 <math>\pi</math> 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;"><b>OR</b></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;"><b>OR</b></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)	
		<b>[29]</b>	

<b>QUESTION 3 [28 MARKS]</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>Topic/L</b>
3.1.1	<p>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</p> <p style="text-align: center;">✓M</p> <p>Total = 15 + 16 + 18 + 19 + 21 + 22 + 24 + 25 + 26                      = 186 ✓CA</p> <p style="text-align: center;"><b>OR</b></p> <p>Total = 432 – total left block – total right block ✓M                      = 432 – 121 – 125 ✓A                      = 186 ✓CA</p> <p style="text-align: center;"><b>OR</b></p> <p>Total ✓A                      = (32 + 33 + 35 + 36 + 38 + 39 + 41 + 42 + 43) – (17 × 9)                      = 339 – 153 ✓M                      = 186 ✓CA</p>	<p>1A number in seats in row A – J</p> <p>1M adding</p> <p>1CA total</p> <p style="text-align: center;"><b>OR</b></p> <p>1M subtracting                      1A totals for both blocks                      1CA total</p> <p style="text-align: center;"><b>OR</b></p> <p>1A number of seats in right block                      1M subtracting additional seats                      1CA total</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Answer Only                          Full Marks                          185 or 187                          two marks</p> </div> <p style="text-align: right;">(3)</p>	L1
3.1.2	North West/NW ✓✓A	<p>2A direction</p> <p style="text-align: right;">(2)</p>	L1
3.1.3	<p>H30 ✓✓✓A  <b>OR</b>                      8<sup>th</sup> row from the stage seat 30  <b>OR</b>                      second row from the back seat 30</p>	<p>3A if row AND seat are correct                      2A if either row OR seat is correct</p> <p style="text-align: right;">(3)</p>	L1
3.1.4	<p>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</p>	<p>1A Exit to left/ aisle                      1A turn left in aisle                      1A walk towards entrance/exit 1                      1A location of refreshment stand</p> <p style="text-align: right;">(4)</p>	L2

Ques	Solution	Explanation	Topic/L
3.1.5	$87\frac{1}{2}\% \times 432 = 378$ $\checkmark$ MA <b>OR</b> $0,875 \times 432 = 378$ $P = \frac{1}{378}$ $\checkmark$ A $\checkmark$ CA <b>OR</b> $0,26\%$ <b>OR</b> $0,0026$	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 <b>OR</b> left <b>OR</b> 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 <span style="float: right;"><math>\checkmark</math>M</span>	2A correct diagram (2)	L1
3.2.4	Actual length = $62 \text{ mm} \times 30$ <b>OR</b> $6,2 \text{ cm} \times 30$ = $1\,860 \text{ mm}$ $\checkmark$ A                    = $186 \text{ cm}$ = $1,86 \text{ m}$ $\checkmark$ C                    = $1,86 \text{ m}$  <div style="text-align: center;"><b>OR</b></div> $\checkmark$ C $\checkmark$ M Actual length = $0,062 \text{ m} \times 30$ = $1,860 \text{ m}$ $\checkmark$ CA	1M multiply by scale 1A length in mm/cm 1C conversion  <div style="text-align: center;"><b>OR</b></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)	
		<b>[28]</b>	

<b>QUESTION 4 [30 MARKS]</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>Topic/L</b>
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 <sup>st</sup> 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.  <b>OR</b> $\checkmark \checkmark O$ The number of children cannot be decimals/fractions	2O explanation  <b>OR</b> 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;"><b>PERCENTAGES OF CHILDREN IN THE AGE GROUP 16 to 18 NOT ATTENDING ANY EDUCATIONAL INSTITUTION FROM 2002 TO 2009</b></p>  <table border="1" data-bbox="245 674 1401 1912"><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 data-bbox="245 1935 798 2011">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
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																													

[30]

<b>QUESTION 5 [20 MARKS]</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>Topic/L</b>
5.1	United Kingdom <b>OR</b> 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;"><b>OR</b></p> $R95,57 \div \$6,69 = 14,2855... \quad \checkmark M$ $\$1,94 \times 14,2855... = R27,71 \quad \checkmark A$	<p>1M dividing by exchange rate 1A rand value</p> <p style="text-align: center;"><b>OR</b></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;"> <p>Answer Only Full Marks</p> </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;"> <p>Answer Only Full Marks</p> </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;"> <p>Answer Only Full Marks</p> </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;"> <p>Answer Only Full Marks</p> </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 $\frac{50 + 56,07 + 62,40 + 69,57 + 84,21 + 92,88 + 95,22 + 95,57 + 99,30 + 113,96 + 118,75}{11} \checkmark$ $= \frac{937,93}{11}$ $\approx 85,27 \checkmark$ 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
		<b>[20]</b>	
<b>TOTAL</b>			<b>150</b>