

**KEY TO TOPIC SYMBOLS:**  
**F = Finance; M = Measurement; MP = Maps, Plans and other representations;**  
**DH = Data Handling; P = Probability**

QUESTION 1 [38]			
Ques	Solution	Explanation	Topic
1.1.1	17 % ✓✓RD OR 0,17 ✓✓RD OR $\frac{17}{100}$ ✓✓RD	2 RD reading from diagrams Max 1 mark for 17 (2)	F L1
1.1.2 (a)	$R2\ 443,49 \div 24$ ✓M/A = R101,81 ✓CA Accept correct answer only	1M/A division by 24 1CA only if using R2 100 NPR (2)	F L1
1.1.2 (b)	Original selling price = R1 989 + R210 ✓M/A = R2 199 ✓A Accept correct answer only	1M/A adding 1A simplify (2)	F L1
1.1.2 (c)	$15\% \times R2\ 100$ OR $\frac{15}{100} \times R2\ 100$ ✓M/A OR $0,15 \times R2\ 100$ = R315 ✓CA Accept correct answer only	1M/A multiplying 1CA simplify (2)	F L1

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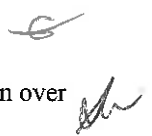
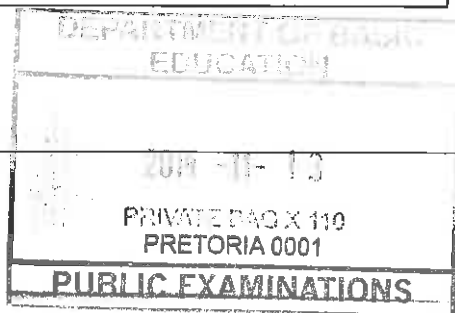
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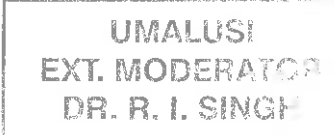
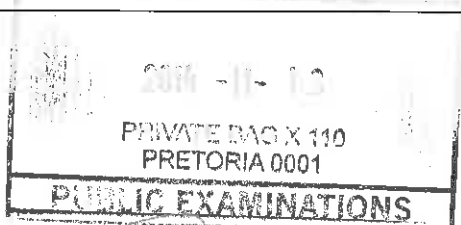
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Ques	Solution	Explanation	Topic
1.1.2 (d)	$\begin{aligned} &\checkmark\text{RD} \\ \text{Total payment} &= R88 \times 30 \text{ months} \\ &= R2\,640 \quad \checkmark\text{M/A} \\ &\checkmark\text{M} \\ \text{Total cost} &= R199 + R2640 \\ &= R2\,839 \quad \checkmark\text{CA} \end{aligned}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1RD reading values from advert 1M/A multiplication 1M addition of R199 1CA simplify</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept R2 839,25 if the formula for Simple Interest is used</div> <p style="text-align: right;">(4)</p>	F L1(2) L2(2)
1.2.1	Clover milk $\checkmark\checkmark\text{A}$	<p>2A correct item</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Full marks if answer is given as 1 l (liter) OR milk only</div> <p style="text-align: right;">(2)</p>	F L2
1.2.2	<p>Cost of 1 tin of condensed milk <math>= R16,95 - R1,00 = R15,95 \quad \checkmark\text{M/A}</math></p> <p>Number of tins of condensed milk <math display="block">\begin{aligned} &amp;\checkmark\text{M} \\ &amp;= R159,50 \div R15,95 = 10 \quad \checkmark\text{CA} \end{aligned}</math></p> <p style="text-align: center;"><b>OR</b></p> <p>Cost of 1 tin of condensed milk <math>= R159,50 \div R16,95 \quad \checkmark\text{M}</math> <math>= 9,4</math></p> <p>Number of tins of condensed milk <math>\approx 10 \quad \checkmark\checkmark\text{RO}</math></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1M/A subtracting</p> <p>1M division 1CA no. of tins</p> <p><b>OR</b></p> <p>1M division by R16,95 2 RO to 10</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Max 1 mark for 9,4 with calculations Max 2 marks for 9 with calculations</div> <p style="text-align: right;">(3)</p>	F L1



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Ques	Solution	Explanation	Topic
1.2.3	$A = R289,52 + R29,07 = R318,59$ <p style="text-align: center;"><b>OR</b></p> $A = 14,99 + 21,95 + R159,50 + R9,95 + R19,95 + R14,99 + R14,99 + R46,99 + R8,29 + R6,99 = R318,59$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1M adding 1A simplify</p> <p>1M adding 1A simplify</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">1 mark if one value is omitted</div> <p style="text-align: right;">(2)</p>	F L1
1.2.4	<p>12/10/2013 till 12/12/2013</p> <p>= 2 months OR 61 days OR 62 days OR 60 days</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1RD Reading from slip 1A simplify</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept 2 or 3 days Max 1 mark for until (or up to) 12/12/2013</div> <p style="text-align: right;">(2)</p>	F L1
1.2.5	$135 \text{ g} \div 1000 = 0,135 \text{ kg}$ $R19,95 \div 0,135 \text{ kg} = R147,78$ <p style="text-align: center;"><b>OR</b></p> $R19,95 \div 135 \text{ g} = R0,1477... \text{ per gram}$ $R0,1477... \times 1\,000 \text{ g} = R147,78$ <p style="text-align: center;"><b>OR</b></p> $135 \text{ g} : 1\,000 \text{ g}$ $R19,95 : x$ $x = R19,95 \times 1\,000 \div 135 = R147,78$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1C Convert to kg 1M Dividing 1CA cost per kg</p> <p><b>OR</b></p> <p>1M Dividing 1C convert to kg 1CA cost per kg</p> <p><b>OR</b></p> <p>1C Convert to g 1M multiply &amp; divide 1CA cost per kg</p> <p style="text-align: right;">(3)</p>	F L1



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Ques	Solution	Explanation	Topic
1.2.6	$R14,99 + R9,95 + R19,95 + R14,99 + R14,99 + R6,99 = R81,86 \checkmark A$ <p style="text-align: center;"><b>OR</b></p> $R318,59 - (R21,95 + R8,29 + R46,99 + R159,50) = R318,59 - R236,73 = R81,86 \checkmark A$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1M adding values</p> <p>1A simplify</p> <p style="text-align: center;"><b>OR</b></p> <p>1M adding values</p> <p>1A simplify</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">If one value is omitted only 1 mark</div> <p style="text-align: right;">(2)</p>	F L1
1.2.7 (a)	<p><b>B</b> = R318,59 round down <math>\checkmark CA</math> =R318,55 <math>\checkmark CA</math></p> <p style="text-align: center;"><b>OR</b></p> <p><b>B</b> = R318,59 round up <math>\checkmark CA</math> =R318,60 <math>\checkmark CA</math></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1CA identify correct value for rounding</p> <p>1CA rounding down from Q 1.2.3</p> <p style="text-align: center;"><b>OR</b></p> <p>1CA identify correct value for rounding</p> <p>1CA rounding up from Q 1.2.3</p> <p style="text-align: right;">(2)</p>	F L1
1.2.7 (b)	<p><b>C</b> = R200 + (2 × R100) = R400 <math>\checkmark M/A</math></p> <p><math>\checkmark M</math> <b>D</b> = R400 – R318,55 = R81,45 <math>\checkmark CA</math></p> <p style="text-align: center;"><b>OR</b></p> <p><math>\checkmark M</math> <b>D</b> = R400 – R318,50 = R81,40 <math>\checkmark CA</math></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1M/A adding money</p> <p>1M Subtracting</p> <p>1CA from Q 1.2.7(a)</p> <p style="text-align: center;"><b>OR</b></p> <p>1M Subtracting</p> <p>1CA from Q 1.2.7(a)</p> <p style="text-align: right;">(3)</p>	F L1

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Ques	Solution	Explanation	Topic
1.2.8 (a)	$\begin{aligned} \text{Profit per packet} &= R14,99 - R12,00 \\ &= R2,99 \checkmark A \\ \text{Profit per dozen} &= 12 \times R2,99 \\ &= R35,88 \checkmark CA \end{aligned}$ <p style="text-align: center;"><b>OR</b></p> $\begin{aligned} \text{Cost price per dozen} &= 12 \times R12,00 \\ &= R144 \checkmark A \\ \text{Selling price per dozen} &= 12 \times R14,99 \\ &= R179,88 \checkmark A \\ \text{Profit per dozen} &= R179,88 - R144 \checkmark M \\ &= R35,88 \checkmark CA \end{aligned}$	<p>1M calculate profit per packet 1A profit 1A multiply by 12 1CA profit of 1 dozen</p> <p style="text-align: center;"><b>OR</b></p> <p>1A cost price per dozen  1A selling price per dozen 1M calculate profit per dozen 1CA profit</p> <p style="text-align: right;">(4)</p>	F L1
1.2.8 (b)	$\begin{aligned} \text{Percentage mark up} &= \frac{\text{selling price} - \text{cost price}}{\text{cost price}} \times 100\% \\ &= \frac{R14,99 - R12,00}{R12,00} \times 100\% \checkmark SF \\ &= 24,916\% \checkmark A \\ &\approx 25\% \checkmark RO \end{aligned}$ <p style="text-align: center;"><b>OR</b></p> $\begin{aligned} \text{Profit} &= R14,99 - R12,00 \\ &= R2,99 \checkmark M \\ \text{Percentage profit} &= \frac{R2,99}{R12,00} \times 100\% \\ &= 24,916\% \checkmark M \\ &\approx 25\% \checkmark RO \end{aligned}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1 SF substitute in formula  1A simplify 1RO rounding to whole percentage</p> <p style="text-align: center;"><b>OR</b></p> <p>1M profit</p> <p>1M % profit simplify 1RO rounding to whole percentage</p> <p style="text-align: right;">(3)</p>	F L2
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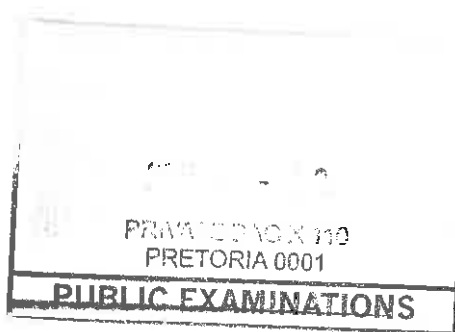
**QUESTION 2 [26]**

Ques	Solution	Explanation	Topic
2.1.1	7✓✓A	2A number of fields  Accept 2 as answer  (2)	M L1
2.1.2 (a)	$\begin{aligned} \text{Length of fencing} &= 33 \text{ m} + 33 \text{ m} = 66 \text{ m} \checkmark A \\ \text{Total length to buy} &= 70 \text{ m} \checkmark RO \quad \text{OR} \quad 14 \text{ rolls} \end{aligned}$ <p style="text-align: center;"><b>OR</b></p> $\begin{aligned} \text{Length of fencing} &= 33 \text{ m} \times 2 = 66 \text{ m} \checkmark A \\ \text{Total length to buy} &= 70 \text{ m} \checkmark RO \quad \text{OR} \quad 14 \text{ rolls} \end{aligned}$ <p style="text-align: center;">Accept correct answer only</p>	1M addition 1A length 1RO rounding to nearest 5 <p style="text-align: center;"><b>OR</b></p> 1M multiplying by 2 1A length 1RO rounding to nearest 5 <p style="text-align: center;">Max 2 marks for 165m or 33 rolls</p> (3)	M L1
2.1.2 (b)	$\begin{aligned} \text{Number of poles} &= 66 \text{ m} \div 1,5 \text{ m} = 44 \text{ poles} \end{aligned}$ <p style="text-align: center;"><b>OR</b></p> $\begin{aligned} \text{Number of poles} &= (33 \div 1,5) \times 2 = 44 \text{ poles} \end{aligned}$	1M using 66 m 1M dividing by 1,5 1CA no. of poles as whole number from Q 2.1.2 (a) <p style="text-align: center;"><b>OR</b></p> 1M divide by 1,5 1M multiply by 2 1CA no. of poles as whole number from Q 2.1.2 (a) (3)	M L1
2.1.3	$\begin{aligned} \text{New length} &= 125 \text{ m} + 33 \text{ m} \\ &= 158 \text{ m} \checkmark A \end{aligned}$ <p>Length of old field : Length of extended field 125 : 158 ✓M</p> <p style="text-align: center;">Accept correct answer only</p>	1A length  1M writing as a ratio using at least 125 (2)	M L2



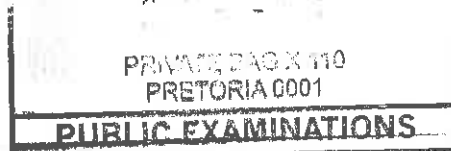
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Ques	Solution	Explanation	Topic
2.1.4	$\text{Area} = 158 \text{ m} \times 95 \text{ m} \checkmark\text{SF}$ $\checkmark\text{CA}$ $= 15\,010 \text{ m}^2 \checkmark\text{A}$	1SF substitution 1CA area 1A unit of $\text{m}^2$ (3)	M L1(1) L2(2)
2.2.1	$\checkmark\text{RT}$ $\text{Diameter} = 2\,200 \text{ mm} \div 1\,000 = 2,2 \text{ m} \checkmark\text{A}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">                         Accept correct answer only                     </div>	1RT 2200 mm 1A diameter in m (2)	M L1
2.2.2	$\text{Radius} = 1,1 \text{ m} \checkmark\text{CA}$ $\text{Volume} = 3,142 \times (1,1)^2 \times 3 \checkmark\text{SF}$ $= 11,40546 \text{ m}^3 \checkmark\text{CA}$ $= 11,40546 \text{ m}^3 \times 1\,000 \text{ l/m}^3 \checkmark\text{C}$ $= 11\,405,46 \text{ litres} \checkmark\text{CA}$ <p style="text-align: center;"><b>OR</b></p> $\text{Radius} = 1,1 \text{ m} \checkmark\text{CA}$ $\text{Volume} = 3,142 \times (1,1)^2 \times 3000 \checkmark\text{SF}$ $= 11\,405,46 \text{ litres} \checkmark\checkmark\text{CA}$	1CA radius from Q 2.2.1 1SF substitution 1CA volume 1C multiply by 1 000 1CA litres <p style="text-align: center;"><b>OR</b></p> 1CA radius from 2.2.1 1C multiply by 1 000 1SF substitution 2CA litres <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">                         Max 3 marks if calculation is simplified (with out squaring)                     </div> (5)	M L2



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Ques	Solution	Explanation	Topic
2.3.1	<p>Time = 11:56 ✓RD</p> <p style="text-align: center;">✓M</p> <p>Time it switched on = 11h56 – 2h45 = 09h11</p> <p>Time it switched on = 09:11 ✓A  <b>OR</b> 9.11 am  <b>OR</b> 11 minutes past nine in the morning.</p> <p style="text-align: center;"><b>OR</b></p> <p>Time = 11:56 ✓RD                      Subtract 2 hours = 9h56                      Subtract 45 minutes = 9h11 ✓M</p> <p>Time it switched on = 09:11 ✓A  <b>OR</b> 9.11 am  <b>OR</b> 11 minutes past nine in the morning</p>	<p>1RD reading time</p> <p>1M subtracting time</p> <p>1A simplify</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">09h11 only 2 marks</div> <p style="text-align: center;"><b>OR</b></p> <p>1RD reading time</p> <p>1M subtracting time</p> <p>1A simplify</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Full marks if time is read as 11:55 with answer 09:10 or 09.10 a.m. or 10 minutes past nine in the morning</div> <p style="text-align: right;">(3)</p>	M L1(2) L2(1)
2.3.2	<p>Temperature in °F = <math>(1,8 \times 25^\circ) + 32^\circ</math> ✓SF</p> <p style="text-align: center;">✓A</p> <p style="text-align: center;">= <math>45^\circ + 32^\circ</math></p> <p style="text-align: center;">= <math>77^\circ</math> ✓CA</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Accept correct answer only</div>	<p>1SF substitute</p> <p>1A simplify 1CA degrees Fahrenheit</p> <p style="text-align: right;">(3)</p>	M L2
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Ques	Solution	Explanation	Topic
3.2.4	<p>1A line drawn northern direction (up), passing between 2 pairs of tables                  1A line drawn western direction (left) to point Y</p> <p>Does not have to be horizontal or vertical straight lines. Accept any indication of the route.</p>		MP L2
3.2.5	<p>South West ✓✓A</p> <p>Accept exact direction only</p>	<p>2A compass direction</p> <p>1 mark for North East                  Accept SSW or WSW or NNE or ENE</p>	MP L1

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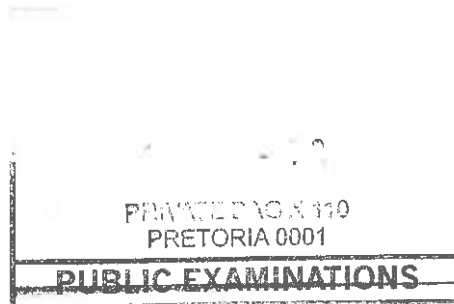


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Ques	Solution	Explanation	Topic
3.2.6	<p>Two tables joined requires 6 chairs</p> <p>Number of tables = <math>24 \div 6 = 4</math> pairs <sup>✓M</sup> <sup>✓A</sup> OR 8</p> <p style="text-align: center;"><b>OR</b></p> <p>2 Tables requires 6 chairs</p> <p>Ratio of tables as to chairs = <math>2 : 6</math> <sup>✓M</sup> = <math>1 : 3</math></p> <p>Number of tables = <math>24 \div 3 = 8</math> <sup>✓A</sup> OR <math>24 \times \frac{2}{6}</math></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Accept correct answer only</p> </div>	<p>1M method 1A number of tables</p> <p style="text-align: center;"><b>OR</b></p> <p>1M method (ratio) 1A number of tables</p> <p style="text-align: right;">(2)</p>	<p>MP L1</p>
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QUESTION 4 [37]			
Ques	Solution	Explanation	Topic
4.1.1	R13,78 ✓✓RD	2 RD Class C cost (2)	DH L1
4.1.2	✓A ✓A Ihobhe and Sunbird	1A Ihobhe 1A Sunbird  Only 1 mark if two incorrect names added. No mark if more than two names added	DH L1
4.1.3 (a)	<p>Mean =</p> $\frac{7,50 + 7,50 + 7,28 + 7,28 + 6,90 + 6,90 + 8,40 + 8,40 + 6,45}{17}$ $+ \frac{6,45 + 8,03 + 8,03 + 7,13 + 7,13 + 6,30 + 6,30 + 1,50}{17}$ <p>✓A</p> $= \frac{117,48}{17}$ <p>✓M</p> $= R6,91$ <p>✓CA</p> <p>Accept correct answer only</p>	<p>1RT correct values</p> <p>1A dividing by 17</p> <p>1M sum of values</p> <p>1CA mean</p> <p>(4)</p>	DH L2
4.1.3 (b)	<p>Ordering: ✓✓M/A</p> <p>1,50; 6,30; 6,30; 6,45; 6,45; 6,90; 6,90; 7,13; 7,13; 7,28; 7,28; 7,50; 7,50; 8,03; 8,03; 8,40; 8,40</p> <p>Median = R7,13 ✓CA</p> <p>Accept correct answer only</p>	<p>2M/A ordering of values</p> <p>1CA median</p> <p>(3)</p>	DH L2

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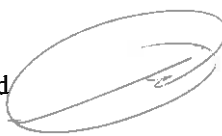
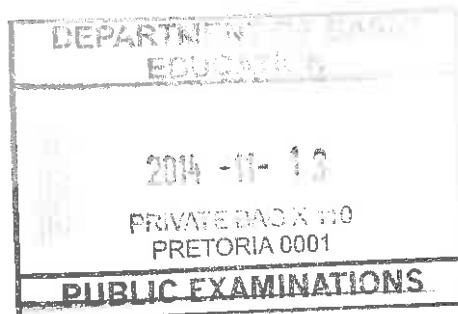
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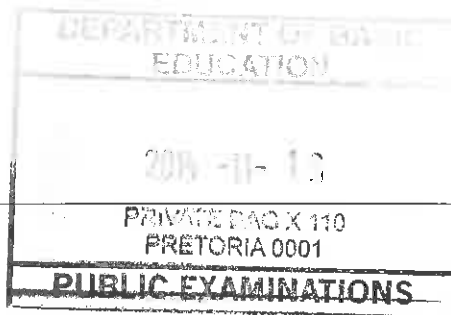
Ques	Solution	Explanation	Topic
4.2.3	$\text{Value of External Loans} = \frac{14}{100} \times R587\,646\,376$ $= R82\,270\,492,64$ <p style="text-align: center;"><b>OR</b></p> $100\% - 14\% = 86\%$ <p>Value of External Loans</p> $= R587\,646\,376 - 86\% \text{ of } R587\,646\,376$ $= R82\,270\,492,64$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p><b>Accept correct answer only</b></p> </div>	<p>1RG correct % 1M multiplying by R587 646 376 1CA loan amount</p> <p style="text-align: center;"><b>OR</b></p> <p>1RG correct %</p> <p>1M subtracting 86 % of amount 1CA loan amount</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Penalty for incorrect rounding</p> </div> <p style="text-align: right;">(3)</p>	DH L1
4.2.4	Recreation Facilities ✓✓RG <b>OR</b> L ✓✓RG	2RG reading data <p style="text-align: right;">(2)</p>	DH L1
4.2.5	Twenty eight <sup>✓A</sup> million, four hundred and one thousand, seven hundred and thirty six rand. ✓A	1A millions 1A word format of number <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>No penalty for units</p> </div> <p style="text-align: right;">(2)</p>	DH L1
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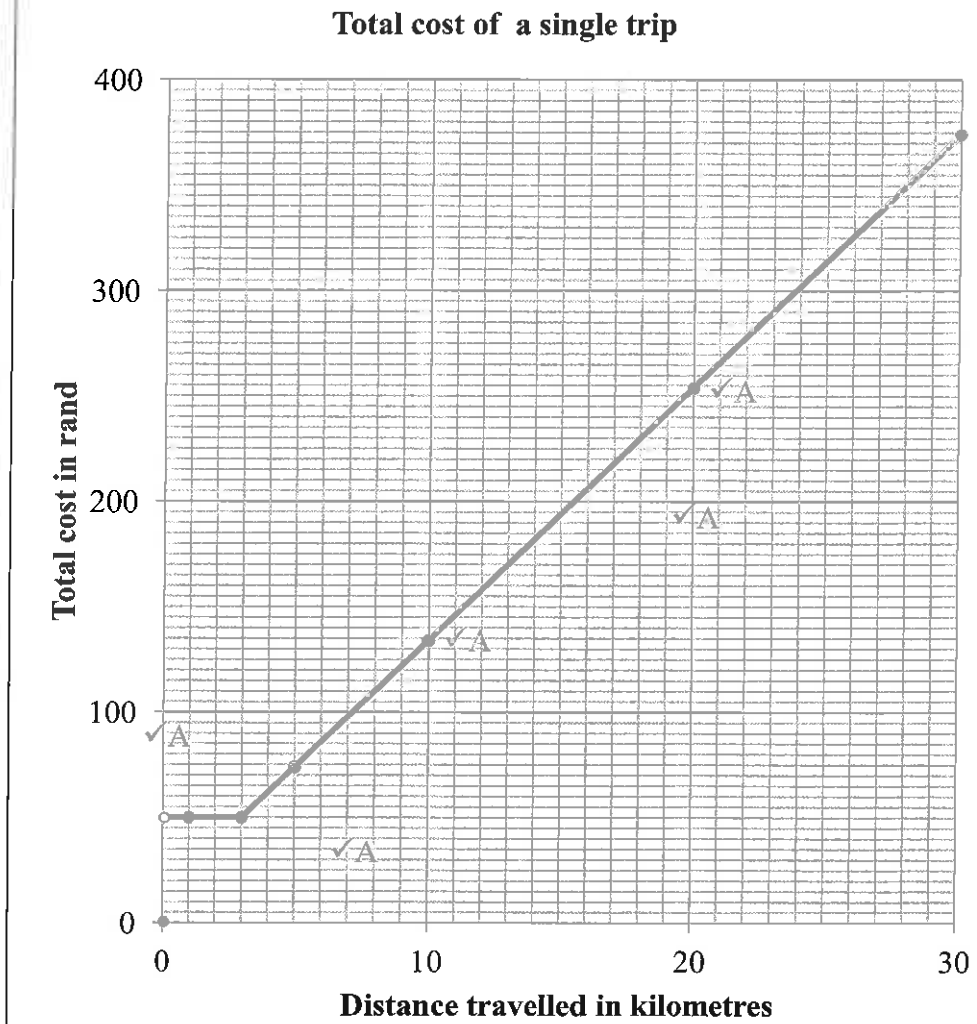
QUESTION 5 [24]			
Ques	Solution	Explanation	Topic
5.1.1	$\text{Cost (R)} = 50 + 12 \times (\text{number of kilometres} - 3)$ <p style="text-align: center;">OR</p> $\text{Cost (R)} = 50 + 12 \times (\text{number of kilometres}) - 36$ <p style="text-align: center;">OR</p> $\text{Cost (R)} = 14 + 12 \times \text{number of kilometres}$ <p style="text-align: center;">OR</p> $\text{Cost (R)} = 50 + 12 \times (k - 3)$ <p>Where k = number of kilometres</p> <p style="text-align: center;">OR</p> $\text{Cost (R)} = 14 + 12 \times k$ <p>Where k = number of kilometres</p>	<p>1A R50 call-out fee 1A R12 × no km 1A no. km – 3</p> <p style="text-align: center;">OR</p> <p>1A R50 call-out fee 1A R12 × no km 1A no. km – 36</p> <p style="text-align: center;">OR</p> <p>2A R14 1A R12 × no. km</p> <p style="text-align: center;">OR</p> <p>1A 50 call-out fee 1A 12 1A k – 3 (with description of k)</p> <p style="text-align: center;">OR</p> <p>1A 50 – 36 1A 12 1A k (with description)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Max 2 marks if variable is used and explained incorrectly</p> </div>	F L2

(3)



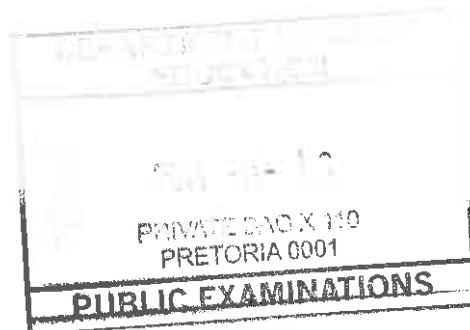
5.1.2

F  
L2



- 1A y-intercept at R50 and *must be an open circle*
- 1A **horizontal** line from 1 – 3 km;
- 2A any other 2 points correct
- 1A **inclined** line passing through correct plotted points

(5)



NSC – Memorandum

Ques	Solution	Explanation	Topic																
5.1.3	$\text{Cost (without call out fee)} = R1\ 214 - R50 = R\ 1\ 164 \quad \checkmark M/A$ $\text{Kilometres charged} = R1\ 164 \div 12 = 97\ \text{km} \quad \checkmark M$ $\text{Distance travelled} = 97 + 3 = 100\ \text{km} \quad \checkmark A$ <p style="text-align: center;"><b>OR</b></p> $\text{Distance} = [(R1\ 214 - R50) \div R12] + 3\ \text{km} \quad \checkmark M/A \quad \checkmark M \quad \checkmark M$ $= (R1\ 164 \div R12) + 3\ \text{km}$ $= 97\ \text{km} + 3\ \text{km}$ $= 100\ \text{km} \quad \checkmark A$ <p style="text-align: center;"><b>OR</b></p> <p>If number of kilometers = <math>n</math> <math>\checkmark SF</math></p> $1\ 214 = 50 + [12 \times (n - 3)]$ $1\ 214 = 50 + 12n - 36$ $12n = 1\ 214 - 50 + 36 \quad \checkmark S$ $n = \frac{1214 - 50 + 36}{12} \quad \checkmark M$ $= 100 \quad \checkmark A$ <p style="text-align: center;"><b>OR</b></p> <p>Table used:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>km</td> <td>40</td> <td>50</td> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> </tr> <tr> <td>Cost</td> <td>494</td> <td>614</td> <td>736</td> <td>854</td> <td>974</td> <td>1094</td> <td>1214</td> </tr> </table> $\text{Distance} = 100\ \text{km} \quad \checkmark \checkmark \checkmark \checkmark A$ <p style="text-align: center;"><b>OR</b></p> $\text{Distance travelled} = \frac{R1214 - R14}{R12} \text{km} \quad \checkmark M$ $= 100\ \text{km} \quad \checkmark \checkmark A$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Accept correct answer only</p> </div>	km	40	50	60	70	80	90	100	Cost	494	614	736	854	974	1094	1214	<p>1M/A subtracting R50</p> <p>1M dividing by 12</p> <p>1M adding 3 km</p> <p>1A distance</p> <p style="text-align: center;"><b>OR</b></p> <p>1M/A subtract R50</p> <p>1M divide by R12</p> <p>1M Adding 3 km</p> <p>1A distance in km</p> <p style="text-align: center;"><b>OR</b></p> <p>1SF substitution</p> <p>1S simplify</p> <p>1M dividing by 12</p> <p>1A distance in km</p> <p style="text-align: center;"><b>OR</b></p> <p>4A distance in km</p> <p style="text-align: center;"><b>OR</b></p> <p>1M value of 14</p> <p>1M divide by 12</p> <p>2A distance</p>	<p>F L2</p>
km	40	50	60	70	80	90	100												
Cost	494	614	736	854	974	1094	1214												

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 P1/MAT/2014/X/110

(4)

NSC – Memorandum

Ques	Solution	Explanation	Topic
5.1.4	<p style="text-align: center;"> <math>\checkmark M/A</math>                      <math>\checkmark M</math>                      Total taxi fare = <math>R50 + (2 \times R12) + R100 + (5 \times R12)</math>  <math>\checkmark S</math>                                      <math>\checkmark S</math>                      = <math>R50 + R24 + R100 + R60</math>                      = <math>R234,00</math> <math>\checkmark CA</math> </p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;"> <math>\checkmark M</math>                      Return distance from meeting = <math>5\text{km} \times 2 = 10\text{ km}</math> <math>\checkmark A</math>                      Reading from table : <math>R134</math> for <math>10\text{ km}</math> <math>\checkmark RT</math>                      Taxi fare = <math>R134 + R100</math> <math>\checkmark M</math>                      = <math>R234</math> <math>\checkmark CA</math> </p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;"> <math>\checkmark M/A</math>                      <math>\checkmark M</math>                      Total taxi fare = <math>50 + [12 \times (10 - 3)] + 100</math>  <math>\checkmark S</math>                      = <math>50 + (12 \times 7) + 100</math> <math>\checkmark M</math>  <math>\checkmark S</math>                      = <math>50 + 84 + 100</math>                      = <math>R234</math> <math>\checkmark CA</math> </p> <p style="text-align: center;"><b>OR</b></p> <p>Reading from graph</p> <p style="text-align: center;"> <math>\checkmark M</math>  <math>5\text{km} \times 2 = 10\text{ km}</math> <math>\checkmark A</math>                      10 km cost <math>R134</math> <math>\checkmark RG</math>                      Total taxi fare = <math>R134 + R100</math> <math>\checkmark M</math>                      = <math>R234</math> <math>\checkmark CA</math> </p>	<p> <math>1M/A</math> <math>R50</math> call out fee  <math>1M</math> add <math>R100</math>  <math>1S</math> cost of <math>R24</math>  <math>1S</math> cost of <math>R60</math>  <math>1CA</math> cost of trip                 </p> <p style="text-align: center;"><b>OR</b></p> <p> <math>1M</math> multiply  <math>1A</math> <math>10\text{ km}</math>  <math>1RT</math> <math>R134</math>  <math>1M</math> add <math>R100</math>  <math>1CA</math> cost of trip                 </p> <p style="text-align: center;"><b>OR</b></p> <p> <math>1M/A</math> <math>R50</math> call out fee  <math>1M</math> subtract <math>3\text{ km}</math>  <math>1M</math> add <math>R100</math>  <math>1S</math> <math>84</math>  <math>1CA</math> cost of trip                 </p> <p style="text-align: center;"><b>OR</b></p> <p> <math>1M</math> multiply  <math>1A</math> <math>10\text{ km}</math>  <math>1RG</math> <math>R134</math>  <math>1M</math> add <math>R100</math>  <math>1CA</math> cost of trip                 </p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">                     Max three marks if answer is <math>R174</math> or <math>R248</math> </div>	<p>F L1 (2) L2 (3)</p> <p style="text-align: right;">(5)</p>

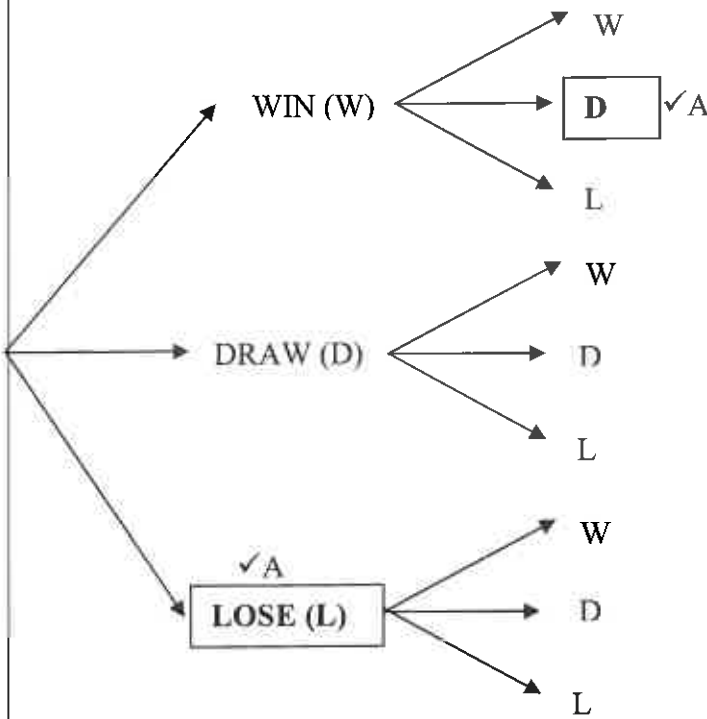
PRIVATE BAG X 110  
PRETORIA 0001  
**PUBLIC EXAMINATIONS**

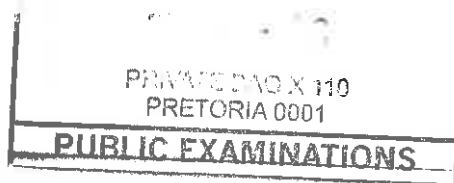
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DR. R. I. SINGH

Please turn over

Ques	Solution	Explanation	Topic
5.2.1	 <p><b>NOTE: Accept answers if written in words.</b></p>	<p>W W</p> <p>W D</p> <p>W L</p> <p>D W</p> <p>D L</p> <p>D L</p> <p>L W</p> <p>L D</p> <p>L L</p>	P L3
5.2.2	C ✓✓A	2A statement (2)	P L1
5.2.3	$\frac{5}{9}$ ✓CA OR $\approx 55,56\%$ ✓CA OR $\approx 0,56$ ✓CA	1CA numerator 1CA denominator OR 2CA in % form OR 2CA in decimal form (2)	P L3
			[24]



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