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]

<table>
<thead>
<tr>
<th>Ques</th>
<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
</table>
| 1.1.1 | 67 × 2 + 16 ✓MA  
       = 150 ✓CA | 1MA multiply by 2 and adding 16  
1CA simplifying  
Answer only full marks | L1 |
| 1.1.2 | ✓M ✓A  
Cost = R225,00 × 152 = R34 200  
OR ✓M  
Number of persons = R34 200 ÷ R225 = 152 ✓A  
(150 guests + bridal couple)  
OR ✓M ✓A  
Cost per person = R34 200 ÷ 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 | L1 |
| 1.1.3 | % Reception costs = \( \frac{R66 450}{R125 000} \times 100\% \)  
= 53,16% ✓CA | 1M correct fraction  
1CA percentage  
Answer only full marks  
NP – rounding | L1 |
| 1.1.4 | Flowers and decor = 1,8% × R125 000 ✓M  
= R2 250 ✓A | 1M percentage  
1A amount  
Answer only full marks | L1 |
### Ques 1.1.5

<table>
<thead>
<tr>
<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
</table>
| Rand value = GHS 30 000 ÷ 0,32253 ✓M  
≈ R93 014,60 ✓ A  
Shortfall = R125 000 – R93 014,60 ✓ M  
= R31 985,40 ✓ CA | 1M divide  
1A correct rounding | L2 |
| OR | 1M subtraction  
1CA amount | |
| Cedi value = R125 000 × 0,32253 ✓ MA  
= GHS 40316,25 | 1MA multiply | |
| Shortfall = GHS 40 316,25 – GHS 30 000  
= GHS 10 316,25 ✓ A  
Rand value = GHS 10 316,25 ÷ 0,32253  
= R31 985,40 ✓ CA | 1M subtraction  
1A shortfall amount  
1CA amount | |

(4)

### Ques 1.1.6

<table>
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<th>Solution</th>
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</table>
| 14 ÷ 100 × R1 349 = R188,86 ✓ M  
Cost including VAT = R1 349 + R188,86  
= R1 537,86 ✓ A  
Selling price in cedi = R1 537,86 × 0,32253 ✓ M  
≈ 496 ✓ CA | 1A multiply by 14%  
1M adding amount  
1A amount with VAT  
1M multiply by 0,32253  
1CA value to nearest cedi | L1 |
| OR | 1A working with 14%  
1M multiply by 1,14  
1A amount with VAT  
1M multiply by 0,32253  
1CA value to nearest cedi | |
| VAT inclusive cost = R1 349 × 1,14 ✓ M  
= R1 537,86 ✓ A  
Selling price in cedi = 1 537,86 × 0,32253 ✓ M  
≈ 496 ✓ CA | |
| OR | 1M multiply by 0,32253  
1A cedi price | |
| Price in cedi = 1 349 × 0,32253 ✓ M  
= 435,09 ✓ A  
Selling price including VAT in cedi = 435,09329 × 1,14 ✓ A ✓ M  
≈ 496 ✓ CA | 1A working with 14%  
1M multiply by 1,14  
1A cedi price  
1CA value to nearest cedi | (5) |
<table>
<thead>
<tr>
<th>Ques</th>
<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
</table>
| 1.1.7 | ✓A ✓J  
• Photographer (video) to create memories of the wedding day  
• Wedding attire – usually special wedding attire are required  
• Wedding contract to pay for the lawyer’s fees for drawing up the contract  
• Gifts as a token for members who serve  
• DJ to provide for the music at the reception  
(accept any valid wedding expense with an explanation) | 1A wedding expense  
1J explanation | L1 L2 |
| 1.2.1 | Employee works and receives money for the work done ✓D  
Employer is a person or institution that hires workers and pays wages/salary for work done ✓D | 1D employee | L1 |
| 1.2.2 | Unemployment Insurance Fund ✓✓D | 2D expanding | L1 |
| 1.2.3 | R15 521 ✓✓A | 2A amount | L1 |
| 1.2.4 | ✓A  
No amount allocated ✓E | 1A correct statement  
1E reason | L1 |
| 1.2.5 | Monthly tax credit = R2 760 ÷ 12 ✓MA  
= R230 ✓CA | 1MA divide correct value by 12  
1CA monthly tax credit | L1 |
| 1.2.6 | A = R13 909 + R20 013 + R8 640 ✓M  
= R42 562 ✓CA | 1M correct values  
1CA total deductions | L1 |
<table>
<thead>
<tr>
<th>Ques</th>
<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
</table>
| 1.2.7 | Gross non-retirement funding income  
\[= R15\ 521 + R26\ 188 + R8\ 640 \checkmark M \checkmark A\]  
\[= R50\ 349\]  
\[\text{OR}\]  
Adding the amounts with source codes 3605, 3713 and 3810  
\[\text{OR}\]  
Adding the annual payment other allowances and medical aid contributions | 1M using the correct values/codes/words  
1A addition | L1 |
| 1.2.8 | Remaining monthly contributions  
\[\checkmark A\]  
\[= R13\ 909 – R4\ 975,25\]  
\[= R8\ 933,75 \checkmark CA\]  
\[\checkmark M\]  
Average monthly contribution  
\[= R8\ 933,75 \div 7 \checkmark A\]  
\[= R1\ 276,25 \checkmark CA\] | 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) | L2 |

\[\text{Answer only full marks}\] (5)
### QUESTION 2 [31]

<table>
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<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
</table>
| 2.1.1 | Total area of a rectangular piece = $30 \text{ cm} \times 12 \text{ cm}$  
 $= 360 \text{ cm}^2 \checkmark \text{ A}$  
 Off-cut piece = $360 \text{ cm}^2 - 355,25 \text{ cm}^2$  
 $= 4,75 \text{ cm}^2 \checkmark \text{ CA}$  
 Total off-cut piece for both sides = $4,75 \text{ cm}^2 \times 2 \checkmark \text{ A}$  
 $= 9,5 \text{ cm}^2 \checkmark \text{ CA}$  
 **OR**  
 Total area of 2 rectangular pieces = $2 \times 30 \text{ cm} \times 12 \text{ cm}$  
 $= 720 \text{ cm}^2 \checkmark \text{ A}$  
 Area of both sides of stocking = $355,25 \text{ cm}^2 \times 2 \checkmark \text{ A}$  
 $= 710,5 \text{ cm}^2 \checkmark \text{ A}$  
 Total off-cut piece = $720 \text{ cm}^2 - 710,5 \text{ cm}^2$  
 $= 9,5 \text{ cm}^2 \checkmark \text{ CA}$  
 **OR**  
 Total off-cut area  
 $= (2 \times 30 \text{ cm} \times 12 \text{ cm}) - (355,25 \text{ cm}^2 \times 2)$  
 $= 720 \text{ cm}^2 - 710,5 \text{ cm}^2$  
 $= 9,5 \text{ cm}^2 \checkmark \text{ CA}$ | 1SF substitution  
 1A simplifying  
 1M subtraction  
 1CA area of off-cut  
 1M multiply by 2  
 1CA area of off-cut  
 **OR**  
 1SF substitution  
 1M multiply by 2  
 1A simplifying  
 1M multiply by 2  
 1M subtraction  
 1CA area of off-cut  
 **OR**  
 1SF substitution  
 1M multiply by 2  
 1M multiply by 2  
 1A simplifying  
 1M subtraction  
 1CA area of off-cut  | L3 |
### Question 2.1.2

Area of a triangle: $\frac{1}{2} \times 3 \times 5 = 7.5 \text{ cm}^2$

Area of 6 triangles: $7.5 \times 6 = 45 \text{ cm}^2$

**OR**

Area of triangles: $\left(\frac{1}{2} \times 3 \times 5\right) \times 6 = 45 \text{ cm}^2$

**Explanation**

- 1 SF substitution
- 1A simplifying
- 1M multiply by 6
- 1CA total area

### Question 2.1.3

Time taken: $9 \times 18 = 162 \text{ minutes}$

Finishing time: $08:25 + 2\text{h}42 = 11:07$

**Explanation**

- 1MA time in minutes
- 1C converting time
- 1M adding
- 1CA finishing time
- correct notation

**Notes**

- 1 SF substitution
- 1M multiply by 6
- 1A simplifying
- 1CA total area
- Answer only full marks

**NP-units**

- Two marks for 11: xx

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**Level L2**
<table>
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</tr>
</thead>
</table>
| 2.2  | Number of reels along length = 195 mm ÷ 23mm  
      = 8,4782…  
      ≈ 8 ✓R  
Number of reels along breadth = 120 mm ÷ 23mm  
      = 5,2173…  
      ≈ 5 ✓R  
Total = 5 × 8 = 40 ✓CA | 1M dividing length by diameter  
1A diameter  
1R number rounded down  
1R number rounded down  
1CA total number | L2 |
|      |          | Full marks for Total = 5 × 8 = 40 |       |
|      |          | 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 |       |
| 2.3.1| Painted surface area of the lid  
✓A ✓SF  
= 3,142 × 3,6 cm (3,6 + 2 × 0,9) cm ✓C  
≈ 61 cm² ✓CA | 1A radius  
1SF substitution  
1C conversion  
1CA surface area to nearest cm²  
OR  
1A radius  
1SF substitution  
1CA surface area to nearest cm²  
1C conversion | L2 |
|      | OR       | Max of 3 marks if inner radius used  
Max of 2 marks if units are mixed |       |
|      | Painted surface area of the lid  
✓A ✓SF  
= 3,142 × 36 mm (36 + 2 × 9) mm  
= 6108,05 mm² ✓CA  
≈ 61 cm² ✓C | OR |
<table>
<thead>
<tr>
<th>Ques</th>
<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
</table>
| 2.3.2 | Capacity = 75% × 250 mℓ  ✓M  
187,5 mℓ ✓CA | 1M multiply by 75%  
1CA capacity in mℓ | L2 |
| | Volume = 187,5 cm³  
Height of the water in the jar  
= Volume of the water (in cm³)  
π × radius²  
= 187,5 cm³  
3,142 × (3,25 cm)²  
187,5 cm³  
= 33,187,375 cm²  
= 5,6497… cm ✓CA  
≈ 6 cm ✓R  
OR  
= Volume of the water (in cm³)  
π × radius²  
= 250 cm³  
3,142 × (3,25 cm)²  
250 cm³  
= 33,187,375 cm²  
= 7,532… cm ✓CA  
Height of the water in the jar  
= 75% × 7,532… cm ✓M  
= 5,6497… cm ✓CA  
≈ 6 cm ✓R  | 2SF substitution  
1CA simplification  
1R nearest cm  
Answer only full marks | |
|  | 2 × 1/16 = 2/16 = 1/8 ✓A | 1M multiply by 2  
1A fraction  
Accept 2/16 | L1 |

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### QUESTION 3 [24]

<table>
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<th>Ques</th>
<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1.1</td>
<td>Exit 3 ✓✓RD</td>
<td>2RD reading from plan</td>
<td>L1</td>
</tr>
<tr>
<td>3.1.2</td>
<td>✓A  ✓J No, there is no power outlet available in that seat</td>
<td>1A answer 1J reason</td>
<td>L1</td>
</tr>
<tr>
<td>3.1.3</td>
<td>✓RD C 109 ✓RD</td>
<td>1RD correct row 1RD correct seat number</td>
<td>L2</td>
</tr>
<tr>
<td>3.1.4</td>
<td>Total seats = seats one side + seats in middle + seats other side = ((3\times2\times6 + 3\times7 + 6\times8 + 5) + (8 + 13 + 11\times14 + 6) + (3 + 5 + 6 + 3\times7 + 5\times8)) ✓MA ✓MA ✓MA = 89 + 181 + 75 = 345 ✓CA</td>
<td>3MA adding correct number of seats in each section 1CA total seats</td>
<td>L1</td>
</tr>
<tr>
<td>3.1.5</td>
<td>104 and 110 ✓✓RD</td>
<td>2RD seat numbers</td>
<td>L1</td>
</tr>
<tr>
<td>3.1.6</td>
<td>Number of seats with access to a power supply = 52 ✓A</td>
<td>1A counting seat 1CA numerator 1CA writing as a denominator from 3.1.4</td>
<td>L2</td>
</tr>
<tr>
<td>3.2.1</td>
<td>14 times ✓✓RD [Free State 15 times]</td>
<td>2RD reading from map If 13 one mark</td>
<td>L1</td>
</tr>
<tr>
<td>Ques</td>
<td>Solution</td>
<td>Explanation</td>
<td>Level</td>
</tr>
<tr>
<td>------</td>
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</tr>
<tr>
<td>3.2.2</td>
<td>Distance = 94,7 km – 76 km ✓ MA  18,7 km ✓ A</td>
<td>1MA subtracting from 94,7 1A distance</td>
<td>L1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Answer only full marks</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>(2)</td>
<td></td>
</tr>
<tr>
<td>3.2.3</td>
<td>Blue Hills ✓ RD</td>
<td>2RD reading from map</td>
<td>L1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2)</td>
<td></td>
</tr>
<tr>
<td>3.2.4</td>
<td>✓ RD ✓ RD WP 4, WP 5, WP 6 ✓ RD OR WP3 to WP4, WP 4 to WP5, WP5 to WP6 ✓ ✓ RD</td>
<td>3RD reading from map OR 3RD reading from map</td>
<td>L1</td>
</tr>
<tr>
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<td>2 marks for W4 to W6</td>
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<td>(3)</td>
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<td>[24]</td>
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</tbody>
</table>
### QUESTION 4 [30]

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

**WORLD POPULATION AND MEANS OF COMMUNICATION**
**PERCENTAGES PER GLOBAL REGION**

<table>
<thead>
<tr>
<th>Global Regions</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>✔</td>
<td>☐</td>
<td>✗</td>
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<tr>
<td>B</td>
<td>✗</td>
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<td>✗</td>
<td>✔</td>
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</table>

1A mark for every TWO points plotted correctly  
(Penalty of one mark if points are not joined)  

(1 × 6)  

L2
<table>
<thead>
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<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1.7</td>
<td>South Asia <strong>OR</strong> 1 ✓ ✓RD</td>
<td>2RD reading from graph or table</td>
<td>L1</td>
</tr>
</tbody>
</table>
| 4.2.1 | Rural Number = 7 095 476 818 × 48% ✓ ✓A  
= 3 405 828 873 ✓ A  
**OR**  
Urban number = 7 095 476 818 × 52% ✓ ✓A  
= 3 689 647 945 ✓ A  
Rural = 7 095 476 818 – 3 689 647 945  
= 3 405 828 873 ✓ A | 1MA multiplying with %  
1A 48 %  
1A persons  
**OR**  
1MA multiplying with %  
1A urban number  
1A persons  
Answer only full marks | L1 |
| 4.2.2 | Social networking users  
= \( \frac{1 856 680 860}{7 095 476 818} \times 100\% \) ✓ SF  
= 26,167…% ✓ CA | 1SF dividing the correct value by 7 095 476 818  
1CA answer in %  
Answer only full marks  
NP - rounding | L1 |
| 4.2.3 | 6 572 950 124 ✓ ✓A | 2A for correct digits | L1 |

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## QUESTION 5[27]

<table>
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<th>Solution</th>
<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.1</td>
<td>( M = 2\ 925 + 1\ 970 + 1\ 963 + 1\ 568 + 1\ 700 + 1\ 817 + 1\ 342 + 2\ 118 = 15\ 403 )</td>
<td>1MA adding all values 1CA value of ( M )</td>
<td>F L1</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Answer only full marks</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Full marks for 15\ 404</strong></td>
<td></td>
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<td></td>
<td><strong>Penalty of one if given as 1\ 000’s</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 5.1.2 | Value for both \( N \)  
\( = 12\ 898 – (2\ 394 + 1\ 302 + 1\ 405 + 1\ 490 + 1\ 311 + R1\ 756) \) 
\( = 3\ 240 \) | 1M subtracting from total 1CA cost for both 1M dividing by 2 1CA amount | F L2 |
|      | Each received = \( \frac{R\ 3\ 240}{2} = R\ 1\ 620 \) | **Answer only full marks** | |
|      | OR  
Sibiya:  
\( N = R1\ 970 – R349 – R1 = R1\ 620 \) | **Penalty of one if given as 1\ 000’s** | |
|      | OR  
Magome:  
\( N = R1\ 963 – R342 – R1 = R1\ 620 \) | | |
| 5.1.3 | Range = \( R2\ 925\ 000 – R\ 1\ 342\ 000 = R1\ 583\ 000 \) | 1M concept of range 1CA range | D L2 |
|      | | **Answer only full marks** | |
|      | | **Penalty of one if not given as 1\ 000’s** | |
| 5.1.4 | Songelwa : Magome = 30 : 342  
\( = 5 : 57 \)  
\( = 1 : 11,4 \) | 1A correct values 1CA form | F L1 |
|      | | **NP - rounding** | |
|      | | | |
### Questions and Solutions

#### 5.1.5
**Sibiya:**
Increase = R1 970 000 – R1 872 000 = R98 000

**Phillips:**
Increase = R1 700 000 – R1 625 000 = R75 000

**Mabilane:**
Increase = R2 118 000 – R2 032 000 = R86 000

**Magome:**
Increase = R1 963 000 – R1 861 000 = R102 000

Magome received the greatest increase.

2M subtracting any two of Sibiya, Phillips, Mabilane

1A amount for Magome
2CA correct person

Full marks if only Magome was calculated correctly with conclusion

#### 5.1.6
**Mabunda MD**

2A the correct person

Penalty one mark if an extra name is added

#### 5.2.1
100%  

2A correct %
Accept 100

#### 5.2.2
\[ P = \frac{14}{18} = \frac{7}{9} \]

OR
\[ P = 1 - \frac{4}{18} = \frac{7}{9} \]

1A numerator
1A denominator
1CA simplification

1M subtracting from 1
1A denominator
1CA simplification

Answer only full marks

Full marks if only Magome was calculated correctly with conclusion
<table>
<thead>
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<th>Explanation</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.3</td>
<td>Growth 1\textsuperscript{st} year = 4 705 306 × 5% ≈ 235 265 ✓M</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Total after the 1\textsuperscript{st} year = 4 705 306 + 235 265 = 4 940 571 ✓CA</td>
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<td></td>
<td>Growth 2\textsuperscript{nd} year = 4 940 571 × 5.9% = 291 493 OR 291 494 ✓CA</td>
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<td>Total after 2\textsuperscript{nd} year = 4 940 571 + 291 493 = 5 232 064 OR 5 232 065 ✓CA</td>
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<td></td>
<td>100% + 5% = 105% ✓A</td>
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<td></td>
<td>Total after 1\textsuperscript{st} year = 4 705 306 \times 105% ✓M = 4 940 571,3 ✓CA</td>
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<td>100% + 5.9% = 105.9%</td>
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<td>Total after 2\textsuperscript{nd} year = 4 940 571,3 \times 105.9% ✓CA</td>
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<td></td>
<td>= 5 232 065,007 ≈ 5 232 065 ✓CA</td>
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<td>Total after 2\textsuperscript{nd} year ✓M ✓A ✓M ✓A</td>
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<td>= 4 705 306 \times 105% \times 105.9%</td>
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<td>= 5 232 065,007 ≈ 5 232 065 ✓CA</td>
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</tbody>
</table>

**Answer only full marks**

(5)

**TOTAL:** 150