



# education

Department:  
Education  
**REPUBLIC OF SOUTH AFRICA**

## **NATIONAL SENIOR CERTIFICATE**

**GRADE 12**

**MATHEMATICAL LITERACY P2**

**FEBRUARY/MARCH 2009**

**MEMORANDUM**

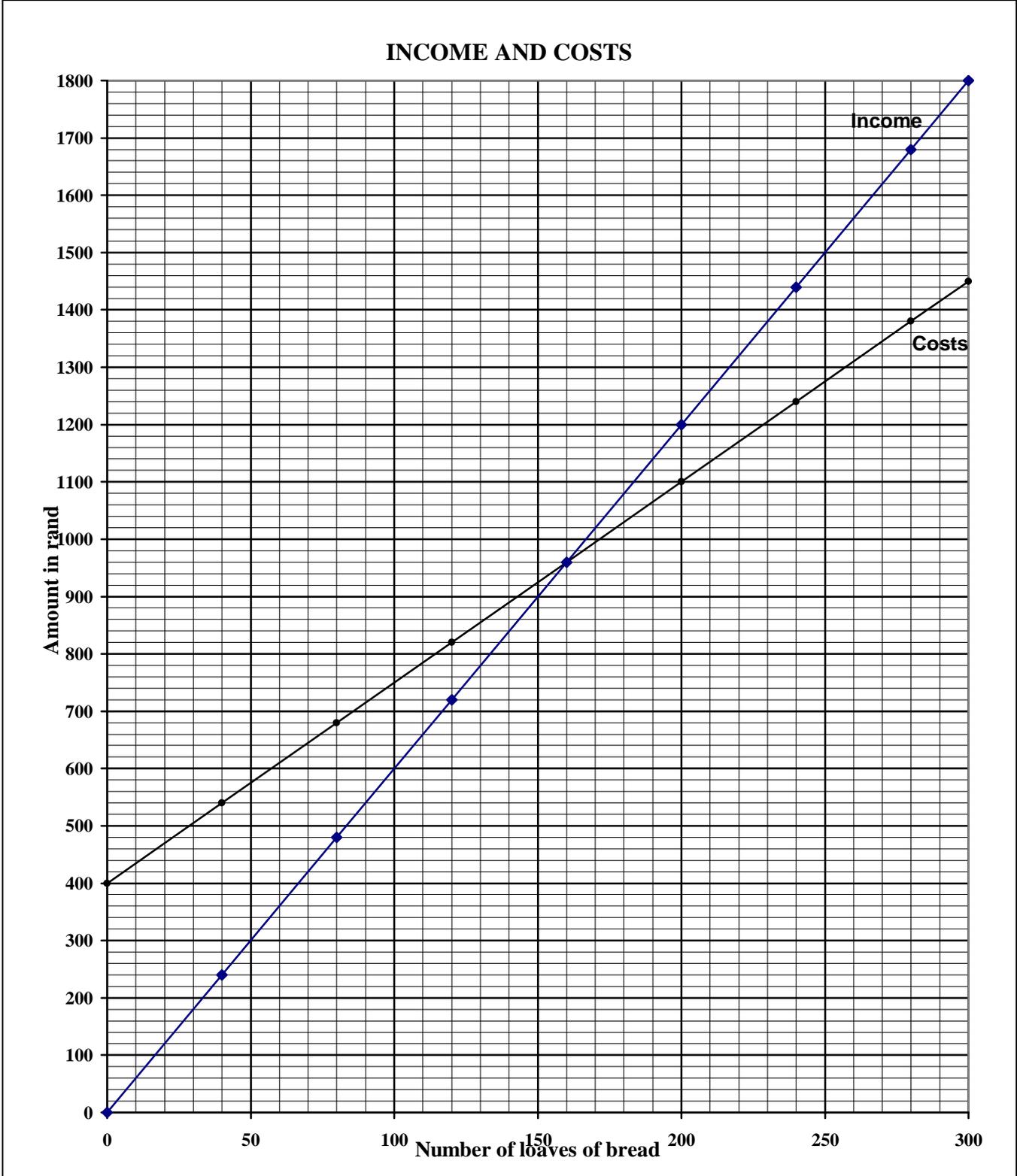
**MARKS: 150**

<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/Reading from a graph
F	Choosing the correct formula
SF	Substitution in a formula
J	Justification
P	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding Off/Reason

**This memorandum consists of 16 pages.**

<b>QUESTION 1 [35]</b>			
<b>Ques</b>	<b>AS</b>	<b>Solution</b>	<b>Explanation</b>
1.1	12.1.1 12.3.2	$\text{Number of loaves} = \frac{12,5 \text{ kg}}{450 \text{ g}} \checkmark \text{M}$ $= \frac{12500 \text{ g}}{450 \text{ g}} \checkmark \text{C}$ $= 27,78 \checkmark \text{CA}$ $\therefore 27 \text{ loaves} \checkmark \text{R}$ <p><b>OR</b></p> $\checkmark \text{M} \quad \checkmark \text{C}$ $\text{Number of loaves} = \frac{12,5 \text{ kg}}{0,450 \text{ kg}} = 27,78 \checkmark \text{CA}$ $\therefore 27 \text{ loaves} \checkmark \text{R}$	1M dividing  1C converting to grams  1CA simplification 1R rounding down  <b>OR</b>  1M dividing 1C converting to kilograms 1CA simplification 1R rounding down (4)
1.2	12.2.1	$\text{Total cost} = \text{Fixed cost} + (\text{number of loaves} \times \text{cost per loaf})$ $\text{A} = 400 + (120 \times \text{R}3,50) \checkmark \text{SF}$ $= \text{R}820 \checkmark \text{A}$ <p><b>AND</b></p> $1\ 240 = 400 + (\text{B} \times \text{R}3,50) \checkmark \text{SF}$ $840 = (\text{B} \times \text{R}3,50)$ $240 = \text{B} \checkmark \text{A}$	1SF substitution  1A total cost  1SF substitution 1A number of loaves (4)
1.3	12.2.1	$\text{Income} = \text{number of loaves} \times \text{price of loaf}$ $\text{C} = 120 \times \text{R}6,00 \checkmark \text{SF}$ $= \text{R}720,00 \checkmark \text{A}$ <p><b>AND</b></p> $960 = \text{D} \times \text{R}6,00 \checkmark \text{SF}$ $\text{D} = \frac{960}{6} = 160 \text{ loaves} \checkmark \text{A}$	1SF substitution  1A income  1SF substitution  1A number of loaves (4)

<b>Ques</b>	<b>AS</b>
1.4	12.2.2



<b>Explanation</b>	
1A 'cost' cutting y-axis at 400	1A 'income' starting at the origin
1CA point of intersection	1A labelling the graphs correctly
2A each graph is a straight line (solid or broken)	2A any other two points plotted correctly (8)

Ques	AS	Solution	Explanation
1.5.1	12.2.3	160 loaves must be sold ✓RG  ✓ CA At this point both the cost and the income are the same and are equal to R960. ✓CA	1RG reading from graph  1CA income is R960 1CA cost is R960 (3)
1.5.2	12.2.3	R1 380 ✓✓RG	2RG reading from graph (CA from graph) (2)
1.5.3	12.2.3	125 loaves [Accept any whole number value between 120 and 130] ✓✓2RG	2RG reading from graph (CA from graph) (2)
1.5.4	12.2.3	Cost of making 300 loaves = R1 450 ✓RG  Income from selling 250 loaves = R1 500 ✓RG  Profit = R1 500 – R1 450 = R50 ✓CA	1RG reading cost from graph 1RG reading income from graph 1CA profit (CA from graph) (3)
1.6	12.2.1	The maximum number of batches per day = 6 ✓✓RT  The maximum number of loaves baked each day = 6 × 20 loaves ✓M = 120 loaves ✓CA  So, the order for 110 loaves may be accepted. ✓ CA	2RT reading from the time line  1M multiplying 1CA maximum number of loaves 1CA conclusion (5)

<b>QUESTION 2 [21]</b>			
<b>Ques</b>	<b>AS</b>	<b>Solution</b>	<b>Explanation</b>
2.1.1	12.1.3	$\text{Net monthly salary} = \frac{\text{R}144\,000}{12} \quad \checkmark\text{M}$ $= \text{R}12\,000 \quad \checkmark\text{S}$	1M dividing 1S simplification  (2)
2.1.2	12.1.3	$\text{Amount remaining each month} = \text{R}12\,000 - \text{R}8\,400$ $= \text{R}3\,600 \quad \checkmark\text{CA}$ $90\% \text{ of R}3\,600 = 0,9 \times \text{R}3\,600 \quad \checkmark\text{M}$ $= \text{R}3\,240 \quad \checkmark\text{CA}$	1CA balance after expenses  1M Calculating 90% of savings 1CA saving per month  (3)
2.2	12.1.3	$F ?$ $x = 3\,000$ $i = \frac{10,8\%}{12} = 0,009 \text{ per month } \checkmark\text{A}$ $n = 11 \text{ months } \checkmark\text{A}$ $F = \frac{x[(1+i)^n - 1]}{i}$ $= \frac{3\,000[(1+0,009)^{11} - 1]}{0,009} \quad \checkmark\text{SF} \quad \checkmark\text{SF}$ $= \text{R}34\,525,83 \quad \checkmark\text{CA}$	1A value of $i$ . 1A value of $n$  2SF substitution 1CA final amount  (5)

Ques	AS	Solution	Explanation
2.3	12.1.1	<p>Increase = 10% of R12 000  <math>= \frac{10}{100} \times R12\ 000 \checkmark M</math>  <math>= R1\ 200 \checkmark A</math></p> <p>New monthly salary = R12 000 + R1 200 <math>\checkmark CA</math>  <math>= R13\ 200 \checkmark CA</math></p> <p style="text-align: center;"><b>OR</b></p> <p>Increase = 0,1 <math>\times</math> R12 000 <math>\checkmark M</math>  <math>= R1\ 200 \checkmark A</math></p> <p>New monthly salary = R12 000 + R1 200 <math>\checkmark CA</math>  <math>= R13\ 200 \checkmark CA</math></p> <p style="text-align: center;"><b>OR</b></p> <p><math>\checkmark M</math>                      <math>\checkmark A</math>  New monthly salary = 110% of R12 000  <math>= \frac{110}{100} \times R12\ 000 \checkmark M</math>  <math>= R13\ 200 \checkmark A</math></p> <p style="text-align: center;"><b>OR</b></p> <p>Annual increase = 10% of R144 000  <math>= \frac{10}{100} \times R144\ 000 \checkmark M</math>  <math>= R14\ 400 \checkmark A</math></p> <p>Annual new salary = R144 000 + R14 400  <math>= R158\ 400 \checkmark CA</math></p> <p>New monthly salary = <math>\frac{158\ 400}{12} = R13\ 200 \checkmark CA</math></p>	<p>1M calculating 10%  1A actual increase  1CA adding increase  1CA new monthly salary</p> <p>1M calculating 10%  1A actual increase  1CA adding increase  1CA new monthly salary</p> <p>1M for 110%  1A original salary  1M multiplication  1A new salary</p> <p>1M for 10%  1A increase in salary  1CA annual new salary  1CA new salary</p> <p style="text-align: right;">(4)</p>
2.4	12.1.3	<p style="text-align: center;"><math>\checkmark M</math>                      <math>\checkmark M</math></p> <p>New monthly expenses = R8 400 + R3 900 – R700  <math>= R11\ 600 \checkmark CA</math></p>	<p>1M adding new expense  1M subtracting public transport cost  1CA new monthly expenditure</p> <p style="text-align: right;">(3)</p>

Ques	AS	Solution	Explanation
2.5	12.2.1	<p><b>Distance = speed × time</b></p> $\text{Speed} = \frac{\text{distance}}{\text{time}} \checkmark A$ $= \frac{18 \text{ km}}{\frac{15}{60} \text{ h}} \checkmark SF$ $= 72 \text{ km/h} \checkmark CA$ <p><b>OR</b></p> $15 \text{ minutes} = 0,25 \text{ h} \checkmark C$ $\text{Speed} = \frac{\text{distance}}{\text{time}} \checkmark A$ $= \frac{18 \text{ km}}{0,25 \text{ h}} \checkmark SF$ $= 72 \text{ km/h} \checkmark CA$	<p>1A Changing subject</p> <p>1SF substitution</p> <p>1C converting to hours</p> <p>1CA average speed</p> <p>1C converting to hours</p> <p>1A Changing subject</p> <p>1SF substitution</p> <p>1CA average speed</p> <p>(4)</p>

<b>QUESTION 3 [23]</b>			
<b>Ques</b>	<b>AS</b>	<b>Solution</b>	<b>Explanation</b>
3.1.1	12.3.1	Surface Area $= 2\pi r^2 + 2\pi rh$ <span style="float:right">✓SF</span> $= 2 \times 3,14 \times (1 \text{ m})^2 + 2 \times 3,14 \times 1 \text{ m} \times 2 \text{ m}$ $= 6,28 \text{ m}^2 + 12,56 \text{ m}^2$ <span style="float:right">✓A</span> $= 18,84 \text{ m}^2$ <span style="float:right">✓CA</span>	1SF substitution 1A multiplication 1CA area (3)
3.1.2	12.1.1 12.2.1 12.3.1	Area to be painted $= \text{Surface area of tank} + \text{area of stand}$ $= 18,84 \text{ m}^2 + 1 \text{ m}^2 = 19,84 \text{ m}^2$ <span style="float:right">✓M ✓CA</span> 3 m <sup>2</sup> of surface needs 1 ℓ 19,84 m <sup>2</sup> of surface will need $\frac{19,84}{3} \ell$ <span style="float:right">✓M</span> $= 6,61333333... \ell$ <span style="float:right">✓CA</span> ∴ 7 ℓ of paint is needed ✓R	1M adding areas 1CA total area 1M dividing 1CA computation 1R rounding up (5)
3.1.3	12.1.1	OPTION 1 $7 \times 1 \ell = 7 \times \text{R}23,63$ <span style="float:right">✓M</span> $= \text{R}165,41$ OPTION 2 $1 \times 5 \ell + 2 \times 1 \ell = \text{R}113,15 + 2 \times \text{R}23,63$ <span style="float:right">✓M</span> $= \text{R}160,41$ ∴ It is more economical to buy 2 one litre tins and a 5 litre tin than to buy 7 one litre tins ✓CA	1M first option 1M second option 1CA conclusion (3)

Ques	AS	Solution	Explanation
3.2.1	12.3.1	$V = \pi r^2 h \quad \checkmark \text{SF}$ $= 3,14 \times (1 \text{ m})^2 \times 2 \text{ m} \quad \checkmark \text{SF}$ $= 6,28 \text{ m}^3 \quad \checkmark \text{A}$ $= 6\,280 \ell \quad \checkmark \text{C}$	1SF substituting r 1SF substituting h 1A computation 1C converting to $\ell$ (4)
3.2.2	12.1.1	In 1 hour the generator uses $\frac{72 \ell}{36} \checkmark \text{M}$ $= 2 \ell \quad \checkmark \text{A}$  7 days = $7 \times 24 \text{ h} = 168 \text{ h} \quad \checkmark \text{C}$  In 7 days the generator uses $168 \times 2 \ell$ $= 336 \ell \quad \checkmark \text{S}$  Original amount of diesel = 80% of $6\,280 \ell$ $= \frac{80}{100} \times 6\,280 \ell \quad \checkmark \text{M}$ $= 5\,024 \ell \quad \checkmark \text{S}$  Amount of diesel remaining = $5\,024 \ell - 336 \ell \quad \checkmark \text{M}$ $= 4\,688 \ell \quad \checkmark \text{S}$	1M finding rate 1A computation  1C converting to hrs  1S simplification  1M percentage  1S simplification  1M subtraction 1S simplification (8)

<b>QUESTION 4 [21]</b>			
<b>Ques</b>	<b>AS</b>	<b>Solution</b>	<b>Explanation</b>
4.1	12.4.4	Limpopo ✓RT	1RT correct province (1)
4.2.1	12.4.4	Gauteng and KwaZulu-Natal ✓A ✓A	1A Gauteng 1A KwaZulu-Natal (2)
4.2.2	12.4.4	Gauteng and KwaZulu-Natal ✓A ✓A	1A Gauteng 1A KwaZulu-Natal (2)
4.2.3	12.4.4	The higher the estimated million vehicle kilometres travelled, the higher the number of fatalities and vice versa. ✓✓J	2J description of relationship (2)
4.3.1	12.1.1 12.4.2	$\begin{aligned} & \text{Fatalities in Gauteng} = \frac{3\,412}{15\,392} \times 100\% \quad \checkmark M \\ & = 22,17\% \quad \checkmark A \end{aligned}$	1RT reading Gauteng fatalities from the table 1M multiplying by 100% 1A percentage fatalities (3)
4.3.2 (a)	12.1.1 12.4.4	<p>Gauteng:</p> $\begin{aligned} & \text{Number of fatalities per million vehicle kilometres travelled} \\ & = \frac{\text{number of fatalities in Gauteng in 2006}}{\text{number of million vehicle km travelled in Gauteng in 2006}} \quad \checkmark M \\ & = \frac{3\,412}{44\,042} \quad \checkmark RT \quad \checkmark RT \\ & = 0,077 \quad \checkmark A \end{aligned}$	1M use of the correct formula  2RT correct reading from the table 1A solution (4)

Ques	AS	Solution	Explanation
4.3.2 (b)	12.1.1 12.4.4	Northern Cape ✓ A Number of fatalities per million vehicle kilometres travelled $= \frac{\text{number of fatalities}}{\text{number of million vehicle km travelled}}$ $= \frac{389}{2\,894} \checkmark \text{RT} \checkmark \text{RT}$ $= 0,134 \checkmark \text{CA}$	1A identifying the province  2RT correct reading from the table  1CA solution (4)
4.3.3	12.4.4	$0,077 < 0,134 \checkmark \text{CA}$ This means that fewer fatal accidents occur in Gauteng per million vehicle kilometres travelled than in Northern Cape. Gauteng is safest ✓ J ✓ J  <b>OR</b>  Any other similar or relevant answer.	1CA Calculation  2J Justification  (3)

<b>QUESTION 5 [25]</b>			
<b>Ques</b>	<b>AS</b>	<b>Solution</b>	<b>Explanation</b>
5.1.1	12.3.4	C3 ✓A	1A correct grid reference (1)
5.1.2	12.3.4	South East ✓A	1A relative position (1)
5.1.3	12.3.4	<p>Turn left into 4<sup>th</sup> Street ✓A Turn left into Buiten Street ✓A                      After passing Gerrie Visser Street turn right into the next street. You will see the petrol station ahead of you. ✓A</p> <p style="text-align: center;"><b>OR</b></p> <p>Turn left into 4<sup>th</sup> Street                      Turn left into Wishart Street ✓A                      Turn right into Gerrie Visser Street ✓A                      Turn left into Buiten Street ✓A                      At the next street turn right.                      You will see the petrol station ahead of you.</p> <p style="text-align: center;"><b>OR</b></p> <p>Turn in a northerly direction along 4<sup>th</sup> Street. ✓A                      Turn in a westerly direction along Buiten Street. ✓A                      After passing Gerrie Visser Street, turn in a northerly direction into the next street you come to.                      You will see the petrol station ahead of you. ✓A</p>	<p>1A direction in 4<sup>th</sup> St.                      1A direction in Buiten St.                      1A last turn into the garage</p> <p>1A direction in Wishart                      1A turn into Gerrie Visser St.                      1A direction in Buiten St. and finding the garage</p> <p>1A direction in 4<sup>th</sup> St.                      1A direction in Buiten St.                      1A last turn into the garage (3)</p>
5.1.4 (a)	12.3.3	<p>Distance = (26 + 40+ 24+ 20) mm ✓M                      = 110 mm ✓A                      = 11 cm ✓C</p>	<p>1M adding measurements                      1A computation</p> <p>1C converting to centimetres (3)</p>
5.1.4 (b)	12.3.3	<p>1 cm represents 11 000 cm ✓ M                      So, 11 cm = 11 000×11 cm ✓ M                      = 121 000 cm ✓CA                      = 1 210 m                      = 1,21 km ✓C</p>	<p>1M using scale in cm                      1M multiplying by 11                      1CA answer in cm                      1C convert to kilometres (4)</p>

Ques	AS	Solution	Explanation
5.2.1	12.4.3	$\text{Mean} = \frac{62+57+55,5+64+70+60+62+60+50+97+56+71+61+48+59,5+60+61}{17}$ $= \frac{1\ 054}{17} \checkmark A$ $= 62 \text{ km/h} \checkmark CA$	1M formula  1A sum of scores  1CA mean  (3)
5.2.2	12.4.3	Mode is 60 km/h $\checkmark A$	1A correct mode  (1)
5.2.3	12.4.3	The speeds, written in order, are: $\checkmark M \checkmark A$ 48; 50; 55,5; 56; 57; 59,5; 60; 60; <u>60</u> ; 61; 61; 62; 62; 64; 70; 71; 97  The median = 60 km/h $\checkmark A$	1M ascending order 1A median position  1A value of median  (3)
5.2.4	12.4.4	The mode and median speed are both 60 km/h. $\checkmark J$ The mean speed is 62 km/h, but this speed is affected by the one fast driver who is driving at 97 km/h. $\checkmark J$ So, it looks like most people stick to the speed limit. $\checkmark J$ So their request for a stop street should be turned down. $\checkmark J$	4J justification    (4)
5.2.5	12.4.4	Install speed bumps outside the school. $\checkmark J$ Install flashing warning lights in the roads leading to the school $\checkmark J$ <b>OR</b> Have a scholar patrol. Any other suitable alternatives	2J justification  (2)

<b>QUESTION 6 [25]</b>			
<b>Ques</b>	<b>AS</b>	<b>Solution</b>	<b>Explanation</b>
6.1.1	12.4.4	There is a steady increase in income ✓J✓J <b>OR</b> any other suitable explanation of trend.	2J Justification (2)
6.1.2	12.1.1 12.4.4	mean = $\frac{(3 + 3,5 + 4,5) \text{ hundred thousand}}{9}$ ✓M ✓A  = $\frac{11 \text{ hundred thousand}}{9}$ ✓S  = 1,22 hundred thousand rand ✓CA <b>OR</b> R122 000	1M method 1A correct denominator  1S simplification 1CA solution (4)
6.1.3	12.4.6	Graph 2 ✓A  The vertical scale starts at 2,5 and gives the impression that the quarterly increase is larger than it actually is. ✓J ✓J	1A answer  2J justification (3)
6.2.1 (a)	12.3.1	The bath covers 27 squares. ✓M ✓A  One block is 20 cm by 20 cm $20 \text{ cm} = \frac{20}{100} \text{ m}$ = 0,2 m ✓C  1 block = 0,2 m × 0,2 m = 0,04 m <sup>2</sup> ✓A  The area under the bath = 27 × 0,04 m <sup>2</sup> ✓M = 1,08 m <sup>2</sup> ✓CA  <b>OR</b>  The length of the bath is 9 blocks = 9 × 20 cm ✓M = 180 cm ✓A = $\frac{180}{100} \text{ m}$ = 1,8 m ✓C  The width of the bath = 3 × 20 cm ✓C = 60 cm = 0,6 m  Area under the bath = 1,8 m × 0,6 m ✓M = 1,08 m <sup>2</sup> ✓CA	1 M counting the blocks 1A correct counting  1C converting  1A area of 1 block  1M multiplying 1CA solution  1M counting blocks for length 1A length  1C converting  1C converting  1M multiplying 1CA solution (6)

<p>6.2.1 (b)</p>	<p>Number of squares to be tiled = 54 ✓A ✓M</p> <p>1 square = <math>0,2 \text{ m} \times 0,2 \text{ m} = 0,04 \text{ m}^2</math> ✓C</p> <p>54 squares = <math>54 \times 0,04 \text{ m}^2</math> ✓M</p> <p style="padding-left: 40px;"><math>= 2,16 \text{ m}^2</math> ✓CA</p> <p><b>OR</b></p> <p>Length of bathroom = <math>10 \times 20 \text{ cm} = 200 \text{ cm} = 2 \text{ m}</math> ✓C</p> <p>Breadth of the bathroom = <math>9 \times 20 \text{ cm} = 180 \text{ cm} = 1,8 \text{ m}</math></p> <p>Area of bathroom = <math>2 \text{ m} \times 1,8 \text{ m}</math> ✓M</p> <p style="padding-left: 40px;"><math>= 3,6 \text{ m}^2</math> ✓A</p> <p>Length of basin = <math>60 \text{ cm} = 0,6</math></p> <p>Width of the basin = <math>3 \times 20 \text{ cm}</math></p> <p style="padding-left: 40px;"><math>= 30 \text{ cm} = 0,6 \text{ m}</math></p> <p>Area under the basin = <math>0,6 \text{ m} \times 0,6 \text{ m}</math> ✓CA</p> <p style="padding-left: 40px;">Area to be tiled = <math>3,6 \text{ m}^2 - (1,08 \text{ m}^2 + 0,36 \text{ m}^2)</math></p> <p style="padding-left: 80px;"><math>= 2,16 \text{ m}^2</math> ✓CA</p> <p><b>OR</b></p> <p>Size of bathroom = <math>9 \times 10 \text{ squares} = 90 \text{ squares}</math> ✓M ✓A</p> <p>Size of the bath = <math>3 \times 9 \text{ squares} = 27 \text{ squares}</math> ✓A</p> <p>Size of wash basin = <math>3 \times 3 \text{ squares} = 9 \text{ squares}</math> ✓A</p> <p>Area to be tiled = <math>90 - 27 - 9 = 54 \text{ squares}</math></p> <p>Area = <math>54 \times 0,2 \text{ m} \times 0,2 \text{ m}</math></p> <p style="padding-left: 40px;"><math>= 2,16 \text{ m}^2</math> ✓CA</p>	<p>1 M counting the blocks</p> <p>1A correct counting</p> <p>1C area of block in <math>\text{m}^2</math></p> <p>1M multiplying</p> <p>1CA solution</p> <p><b>OR</b></p> <p>1C converting</p> <p>1M substitution into area formula</p> <p>1A solution</p> <p>1CA area under basin</p> <p>1CA solution</p> <p>1M multiplication</p> <p>1A size of room</p> <p>1A size of bath</p> <p>1A size of wash basin</p> <p>1CA solution (5)</p>
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6.2.2	12.1.1	<p>Number of square metres of tiles needed  <math>= (2,16 + 10\% \text{ of } 2,16) \text{ m}^2 \checkmark\text{M}</math>  <math>= (2,16 + \frac{10}{100} \times 2,16) \text{ m}^2 \checkmark\text{A}</math>  <math>= (2,16 + 0,216) \text{ m}^2</math>  <math>= 2,376 \text{ m}^2 \checkmark\text{CA}</math></p> <p>Number of boxes of tiles <math>= \frac{2,376}{1,5} \checkmark\text{M}</math>  <math>= 1,574 \text{ boxes}</math>  <math>= 2 \text{ boxes} \checkmark\text{R}</math></p> <p><b>OR</b></p> <p>Number of boxes of tiles <math>= \frac{2,16}{1,5} \checkmark\text{M}</math>  <math>= 1,44 \text{ boxes} \checkmark\text{CA}</math>  <math>\checkmark\text{A}</math></p> <p>10% extra <math>= \frac{10}{100} \times 1,44 = 0,144 \checkmark\text{CA}</math></p> <p>Number of boxes <math>= 1,44 + 0,144 = 1,584</math>  <math>= 2 \text{ boxes} \checkmark\text{R}</math></p> <p><b>OR</b></p> <p>Number of boxes of tiles <math>= \frac{2,16}{1,5} \checkmark\text{M}</math>  <math>= 1,44 \text{ boxes} \checkmark\text{CA}</math>  <math>\checkmark\text{A}</math></p> <p>110% <math>\times 1,44 = \frac{110}{100} \times 1,44 = 1,584 \checkmark\text{CA}</math>  <math>= 2 \text{ boxes} \checkmark\text{R}</math></p>	<p>1M method</p> <p>1A calculating %</p> <p>1CA simplification</p> <p>1M dividing</p> <p>1R Rounding up</p> <p><b>OR</b></p> <p>1M method</p> <p>1CA simplification</p> <p>1A calculating %</p> <p>1CA Solution</p> <p>1R rounding up</p> <p><b>OR</b></p> <p>1M method (division)</p> <p>1CA Solution</p> <p>1A calculating %</p> <p>1CA simplification</p> <p>1R Rounding up</p> <p>(5)</p>
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**TOTAL: 150**