

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

NOVEMBER 2014

MEMORANDUM

MARKS: 150

| SYMBOL | EXPLANATION |
|-----------|--|
| M | Method |
| MA | Method with accuracy |
| CA | Consistent accuracy |
| A | Accuracy |
| C | Conversion |
| S | Simplification |
| RT/RG/RD | Reading from table/Reading from graph/Reading from diagram |
| SF | Substitution in a formula |
| RO | Rounding off |
| NPR | No penalty for rounding |
| J | Justification /Reason |
| NO PENALT | Y IF UNITS OMITTED UNLESS STATED OTHERWISE |

This memorandum consists of 22 pages.

KEY TO TOPIC SYMBOLS:

F = Finance; M = Measurement; MP = Maps, Plans and other representations;

DH = **Data Handling**; **P** = **Probability**

| QUES | QUESTION 1 [38] | | |
|--------------|---|---|----------------|
| Ques | Solution | Explanation | Topic |
| 1.1.1 | $ \begin{array}{ccc} 17 \% \checkmark \checkmark RD \\ \mathbf{OR} \ 0,17 & \checkmark \checkmark RD \\ \mathbf{OR} \ \frac{17}{100} & \checkmark \checkmark RD \end{array} $ | 2 RD reading from diagrams Max 1 mark for 17 | F L1 |
| 1.1.2 (a) | R2 443,49 ÷ 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 | F L1 |
| 1.1.2 (c) | 15% × R2 100 OR 15/100 × R2 100 ✓ M/A OR 0,15 × R2 100 = R315 ✓ CA Accept correct answer only | 1M/A multiplying 1CA simplify | F L1 |
| | | (2) | |

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| Ques | Solution | Explanation | Topic |
|--------------|--|---|---------------------|
| 1.1.2 (d) | Total payment = $R88 \times 30$ months = $R2 640 \checkmark M/A$ $\checkmark M$ Total cost = $R199 + R2640$ = $R2 839 \checkmark CA$ | 1RD reading values from advert 1M/A multiplication 1M addition of R199 1CA simplify | F L1(2) L2(2) |
| | Accept correct answer only | Accept R2 839,25 if the formula for Simple Interest is used (4) | |
| 1.2.1 | Clover milk ✓✓A | 2A correct item | F L2 |
| | | Full marks if answer is given as 1 <i>l</i> (liter) OR milk only | |
| | | (2) | |
| 1.2.2 | Cost of 1 tin of condensed milk = R16,95 − R1,00 = R15,95 ✓ M/A | 1M/A subtracting | F L1 |
| | Number of tins of condensed milk $ \checkmark M $ = R159,50 ÷ R15,95 = 10 \checkmark CA | 1M division 1CA no. of tins | |
| | OR | OR | |
| | Cost of 1 tin of condensed milk = R159,50 \div R16,95 \checkmark M = 9,4 Number of tins of condensed milk $\approx 10 \checkmark \checkmark$ RO | 1M division by R16,95 2 RO to 10 Max 1 mark for 9,4 | |
| | Accept correct answer only | with calculations Max 2 marks for 9 with calculations | |
| | | (3) | |

| Ques | Solution | Explanation | Topic |
|-------|---|--|----------------|
| 1.2.3 | A = R289,52 + R29,07 = R318,59 OR | 1M adding 1A simplify | F L1 |
| | \checkmark M A = 14,99 + 21,95 + R159,50 + R9,95 + R19,95 + R14,99 + R14,99 + R46,99 + R8,29 + R6,99 = R318,59 \checkmark A | 1M adding 1A simplify | |
| | Accept correct answer only | 1 mark if one value is omitted (2) | |
| 1.2.4 | 12/10/2013 till 12/12/2013 ✓RD = 2 months ✓A OR 61 days OR 62 days OR 60 days | 1RD Reading from slip 1A simplify | F L1 |
| | Accept correct answer only | Accept 2 or 3 days Max 1 mark for until (or up to) 12/12/2013 (2) | |
| 1.2.5 | 135 g ÷ 1000 = 0,135kg | 1C Convert to kg 1M Dividing 1CA cost per kg | F L1 |
| | OR | OR | |
| | R19,95 ÷ 135 g = R0,1477 per gram ✓M \checkmark C R0,14777 × 1 000 g = R147,78 | 1M Dividing 1C convert to kg 1CA cost per kg | |
| | OR | OR | |
| | 135 g : 1 000 g R19,95 : x \checkmark M \checkmark CA $x = R19,95 \times 1 000 \div 135 = R147,78$ | 1C Convert to g 1M multiply & divide 1CA cost per kg | |
| | Accept correct answer only | (3) | |

| Ques | Solution | Explanation | Topic |
|--------------|---|---|----------------|
| 1.2.6 | ✓M R14,99 + R9,95 + R19,95 + R14,99 + R14,99 + R6,99 = R81,86 ✓A | 1M adding values 1A simplify | F L1 |
| | OR ✓M R318,59 – (R21,95 + R8,29 + R46,99 + R159,50) = R318,59 – R236,73 = R81,86 ✓A | OR 1M adding values 1A simplify | |
| | Accept correct answer only | If one value is omitted only 1 mark (2) | |
| 1.2.7 (a) | B = R318,59 round down ✓CA =R318,55 ✓CA OR | 1CA identify correct value for rounding 1CA rounding down from Q 1.2.3 | F L1 |
| | B = R318,59 round up ✓CA =R318,60 ✓CA Accept correct answer only | OR 1CA identify correct value for rounding 1CA rounding up from Q 1.2.3 | |
| 1.2.7 (b) | $C = R200 + (2 \times R100) = R400 \checkmark M/A$ $\checkmark M$ $D = R400 - R318,55$ $= R81,45 \checkmark CA$ | 1M/A adding money 1M Subtracting 1CA from Q 1.2.7(a) | F L1 |
| | | OR 1M Subtracting 1CA from Q 1.2.7(a) | |
| | Accept correct answer only | (3) | |

| Ques | Solution | Explanation | Topic |
|--------------|--|---|---------|
| 1.2.8 (a) | Profit per packet = R14,99 - R12,00 = R2,99 \checkmark A \checkmark A Profit per dozen = $12 \times R2,99$ = R35,88 \checkmark CA | 1M calculate profit per packet 1A profit 1A multiply by 12 1CA profit of 1 dozen | F L1 |
| | OR | OR | |
| | Cost price per dozen = $12 \times R12,00$ = $R144 \checkmark A$ Selling price per dozen = $12 \times R14,99$ = $R179,88 \checkmark A$ Profit per dozen = $R179,88 - R144 \checkmark M$ = $R35,88 \checkmark CA$ | 1A cost price per dozen 1A selling price per dozen 1M calculate profit per dozen 1CA profit (4) | |
| 1.2.8 (b) | Percentage mark up $= \frac{\text{selling price} - \text{cost price}}{\text{cost price}} \times 100\%$ $= \frac{\text{R14,99} - \text{R12,00}}{\text{R12,00}} \times 100\%$ $= 24,916\% \checkmark \text{A}$ $\approx 25\% \checkmark \text{RO}$ | 1 SF substitute in formula 1A simplify 1RO rounding to whole percentage | F L2 |
| | OR | OR | |
| | Profit = R14,99 - R12,00 = R2,99 \checkmark M | 1M profit | |
| | Percentage profit = $\frac{R2,99}{R12,00} \times 100 \%$ = 24,916 % \checkmark M $\approx 25 \% \checkmark$ RO | 1M % profit simplify 1RO rounding to whole percentage | |
| | Accept correct answer only | (3) | |
| | | | [38] |

| QUES | QUESTION 2 [26] | | |
|--------------|--|---|----------------|
| Ques | Solution | Explanation | Topic |
| 2.1.1 | 7 ✓ ✓ A | 2A number of fields Accept 2 as answer | M L1 |
| | | (2) | |
| 2.1.2 (a) | Length of fencing = $33 \text{ m} + 33 \text{ m} = 66 \text{ m} \checkmark \text{A}$ Total length to buy = $70 \text{ m} \checkmark \text{RO}$ OR 14 rolls | 1M addition 1A length 1RO rounding to nearest 5 OR | M L1 |
| | OK | OK | |
| | Length of fencing = $33 \text{ m} \times 2 = 66 \text{ m} \checkmark \text{A}$ Total length to buy = $70 \text{ m} \checkmark \text{RO}$ OR 14 rolls | 1M multiplying by 2 1A length 1RO rounding to nearest 5 | |
| | Accept correct answer only | Max 2 marks for 165m or 33 rolls | |
| | | (3) | |
| 2.1.2 (b) | Number of poles = $66 \text{ m} \div 1,5 \text{ m} = 44 \text{ poles}$ | 1M using 66 m 1M dividing by 1,5 1CA no. of poles as whole number from Q 2.1.2 (a) | M L1 |
| | OR | OR | |
| | $\checkmark M \checkmark M \checkmark CA$ Number of poles = $(33 \div 1,5) \times 2 = 44$ poles | 1M divide by 1,5 1M multiply by 2 1CA no. of poles as whole number from Q 2.1.2 (a) | |
| 2.1.3 | New length = 125 m + 33 m = 158 m ✓ A | 1A length | M L2 |
| | Length of old field: Length of extended field 125:158 ✓ M | 1M writing as a ratio using at least 125 | |
| | Accept correct answer only | (2) | |
| Ques | Solution | Explanation | Topic |

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| 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 m ² (3) | M L1(1) L2(2) |
|---|--|-------------------------------------|
| Diameter = $2\ 200\ \text{mm} \div 1\ 000 = 2,2\ \text{m} \checkmark \text{A}$ Accept correct answer only | 1RT 2200 mm 1A diameter in m (2) | M L1 |
| Radius = 1,1 m \checkmark CA Volume = 3,142 × (1,1) $^2 \times 3 \checkmark$ SF = 11,40546 m $^3 \checkmark$ CA = 11,40546 m $^3 \times 1 000 \ell/m^3 \checkmark$ C = 11 405,46 litres \checkmark CA | 1CA radius from Q 2.2.1 1SF substitution 1CA volume 1C multiply by 1 000 1CA litres | M L2 |
| Radius = 1,1 m \checkmark CA Volume = 3,142 × (1,1) 2 × 3000 \checkmark SF = 11 405,46 litres \checkmark \checkmark CA | 1CA radius from 2.2.1 1C multiply by 1 000 1SF substitution 2CA litres Max 3 marks if calculation is simplified (with out squaring) | |
| | ✓ CA = 15 010 m ² ✓ A VRT Diameter = 2 200 mm ÷ 1 000 = 2,2 m✓ A Accept correct answer only Radius = 1,1 m ✓ CA Volume = $3,142 \times (1,1)^2 \times 3$ ✓ SF = $11,40546$ m ³ ✓ CA = $11,40546$ m ³ × 1 000 ℓ /m ³ ✓ C = $11,405,46$ litres ✓ CA OR Radius = 1,1 m ✓ CA Volume = $3,142 \times (1,1)^2 \times 3000$ ✓ SF | CA 1CA area 1A unit of m² (3) |

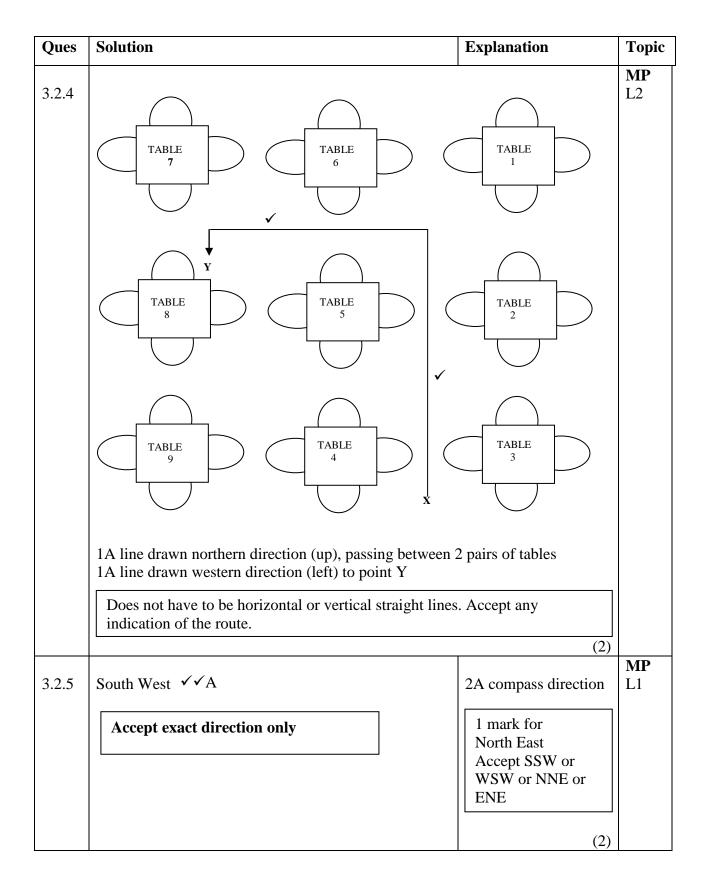
| Ques | Solution | Explanation | Topic |
|-------|--|--|---------------------|
| 2.3.1 | Time = $11:56 \checkmark RD$ $\checkmark M$ Time it switched on = $11h56 - 2h45$ = $09h11$ | 1RD reading time 1M subtracting time | M L1(2) L2(1) |
| | Time it switched on = $09:11 \checkmark A$ OR 9.11 am | 1A simplify | |
| | OR 11 minutes past nine in the morning. | 09h11 only 2 marks | |
| | OR Time = 11:56 ✓RD Subtract 2 hours = 9h56 Subtract 45 minutes = 9h11 ✓M Time it switched on = 09:11 ✓A OR 9.11 am OR 11 minutes past nine in the morning | OR 1RD reading time 1M subtracting time 1A simplify 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 (3) | |
| 2.3.2 | Temperature in ${}^{\circ}F=(1,8\times25^{\circ})+32^{\circ}\checkmark SF$ | 1SF substitute | M L2 |
| | ✓A = 45° + 32° = 77° ✓CA Accept correct answer only | 1A simplify 1CA degrees Fahrenheit | |
| | | (3) | [26] |

| QUES | QUESTION 3 [25] | | |
|-------|--|--|----------|
| Ques | Solution | Explanation | Topic |
| 3.1.1 | ✓A The actual size of the shirt is 18 times bigger in reality than shown on the diagram | 1A actual size 1A 18 times bigger | MP L1 |
| | *Every unit in the diagram represents 18 units in reality A OR A *Every mm/cm on diagram = 18 mm/cm in reality A OR The diagram is $\frac{1}{18}$ of the actual size of shirt. \checkmark A | OR 1A unit on diagram 1A 18 units in reality 1A mm/cm diagram 1A 18 mm/cm reality 1A $\frac{1}{18}$ | |
| | The diagram is $\frac{1}{18}$ of the actual size of shift. \sqrt{A} A OR The diagram is 18 times smaller than the actual shirt. | 1A 18 times smaller 1A actual size of shirt 1A 18 times smaller 1A actual size of shirt * Both units must be the same (2) | |
| 3.1.2 | \checkmark M $486 \text{ mm} \div 18 = 27 \text{ mm} \checkmark$ A OR | 1M dividing by 18 1A scaled length | MP L2 |
| | 1: $18 = \mathbf{s}$: $486 \checkmark M$ $18\mathbf{s} = 486$ $\mathbf{s} = \frac{486}{18} \text{ mm}$ | 1M ratio | |
| | 18 = 27 mm ✓A Accept correct answer only | 1A scaled length (2) | |
| 3.1.3 | 10 buttons (as seen on diagram) ✓✓A OR 11 buttons for assuming the collar has a button ✓✓A | 2A number of buttons 2A number of buttons | MP L1 |
| | 11 outtons for assuming the contai has a outton VVA | (2) | |

Please turn over

| Ques | Solution | Explanation | Topic |
|-------|--|---|----------------------|
| 3.1.4 | Length of strip = 21,5 mm \checkmark A Actual length = 21,5 mm \times 18 \checkmark M = 387 mm \checkmark CA OR | 1A length in mm 21mm OR 22mm 1M multiplication by 18 1CA simplify | MP L1(1) L2(2) |
| | Alternative possible measurements: Accept: 378 mm to 396 mm | (3) | |
| 3.1.5 | Right hand side ✓✓A | 2A interpret diagram (2) | MP L1 |
| 3.2.1 | ✓M/A K = 60 cm + 90 cm + 60 cm = 210 cm ✓A Accept correct answer only | 1M/A adding 1A simplify | MP L1 |
| | | (2) | |
| 3.2.2 | Maximum number of persons= 9×4 = $36 \checkmark A$ Accept correct answer only | 1M/A multiplying 1A no of persons | MP L1 |
| 3.2.3 | $T = 900 \text{ cm} - 150 \text{ cm} - (3 \times 210 \text{ cm}) - (2 \times 50 \text{ cm})$ $= 20 \text{ cm} \checkmark \text{CA}$ | 1RD length of 900 cm 1 CA tables × 3 1M subtracting values 1CA simplify | MP L2 |
| | OR | OR 1M length of 210 cm 1M subtracting 1M correct values 1CA length | |
| | OR \checkmark M \checkmark M \checkmark M $T = 900 - (60 \times 6) - (90 \times 3) - (50 \times 2) - 150$ $= 900 - 880$ $= 20 \text{ cm } \checkmark \text{CA}$ Accept correct answer only | OR 1M length of 6 chairs 1M length of 3 tables 1M spaces between tables 1CA simplify (4) | |

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| Ques | Solution | Explanation | Topic |
|-------|---|----------------------------------|----------|
| 3.2.6 | Two tables joined requires 6 chairs $ \checkmark M \qquad \checkmark A $ Number of tables = $24 \div 6 = 4$ pairs OR 8 | 1M method 1A number of tables | MP L1 |
| | OR | OR | |
| | 2 Tables requires 6 chairs Ratio of tables as to chairs = 2:6 ✓ M = 1:3 | 1M method (ratio) | |
| | Number of tables = $24 \div 3 = 8$ OR $24 \times \frac{2}{6}$ | 1A number of tables | |
| | Accept correct answer only | (2) | |
| | | | [25] |

| 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) | Mean = \sqrt{RT} $\frac{7,50+7,50+7,28+7,28+6,90+6,90+8,40+8,40+6,45}{17}$ | 1RT correct values | DH L2 |
| | $+\frac{6,45+8,03+8,03+7,13+7,13+6,30+6,30+1,50}{17 \checkmark A}$ | 1A dividing by 17 1M sum of values | |
| | =\frac{117,48}{17} \sqrt{M} = R6,91 \sqrt{CA} Accept correct answer only | 1CA mean (4) | |
| 4.1.3 (b) | Ordering: $\checkmark \checkmark M/A$ 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 Median = R7,13 \checkmark CA Accept correct answer only | 2M/A ordering of values 1CA median | DH L2 |

$\begin{array}{c} 15 \\ NSC-Memorandum \end{array}$

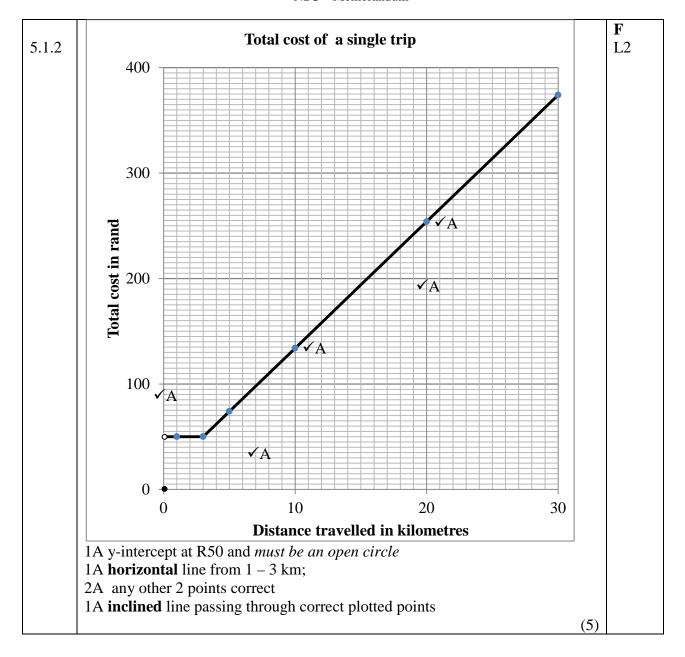
| Ques | Solution | Explanation | Topic |
|--------------|--|---|-----------------|
| 4.1.3 (c) | Median is the better representation $\checkmark A$ $\checkmark \checkmark J$ The mean is affected by the R1,50 which is an outlier. OR $\checkmark A$ Both the mean and the median are suitable representations because the difference between them (R0,22) is negligible $\checkmark \checkmark J$ | 1A Identify the correct central tendency (with a possible reason) 2J Correct reason OR 1A both mean and median (with a possible reason) 2J Correct reason (3) | DH L3 |
| 4.1.4 | Difference = $R6,50 - R4,87 \checkmark M/A$ = $R1,63 \checkmark CA$ | 1RT reading values from table 1M/A subtraction (one value correct) 1CA difference (3) | DH L1 |
| 4.1.5 | \checkmark M \checkmark CA $3,21:8,03 = 321:803 OR 1:2,5$ | 1M ratio 1CA ratio simplified (2) | DH L1 |
| 4.1.6 | Amount saved $= R5,63 - R2,91$ $= R2,72 \checkmark CA$ | 1M/A subtracting correct values of Pikoko 1CA value | DH L1 |

| Ques | Solution Explanation | Topic |
|-------|---|----------|
| 4.1.7 | E-toll tariffs of five selected gantries | DH L2 |
| | 20 | |
| | 16 | |
| | THE TAX | |
| | Lariff in rand | |
| | Barbet Fiscal dumbird dumbird rentaal | |
| | Barbet Fiscal Flamingo Tarentaal | |
| | Name of gantry 5A correctly drawing the 5 (five) bars/plotting the points correctly. NB: Sunbird may NOT be drawn on a gridline. MUST be between the 16 and | |
| | 16,50 line. Max 3 marks if values of other columns are used on condition that all 5 bars are used from the same column of values (5) | |
| 4.2.1 | External Loans $\checkmark \checkmark A$ OR $E \checkmark \checkmark A$ 2A reading data (2) | DH L1 |
| 4.2.2 | | DH L1 |
| | 11% + 2% + 12% + 3% + 14% = 42% ✓M $100% - 42% = 58%$ ✓CA 1M sum of all given % 1CA required % | |
| | Accept correct answer only 1 mark if 1 value is omitted | |
| | (2) | |

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| Ques | Solution | Explanation | Topic |
|-------|---|---|----------|
| 4.2.3 | Value of External Loans = $\frac{\checkmark RG}{100}$ × R587 646 376 ✓ M = R82 270 492,64 ✓ CA | 1RG correct % 1M multiplying by R587 646 376 1CA loan amount | DH L1 |
| | OR | OR | |
| | \sqrt{RG} $100\% - 14\% = 86\%$ | 1RG correct % | |
| | Value of External Loans | | |
| | ✓M = R587 646 376 – 86% of R587 646 376 = R82 270 492,64 ✓CA | 1M subtracting 86 % of amount 1CA loan amount | |
| | Accept correct answer only | Penalty for incorrect rounding | |
| | | (3) | |
| 4.2.4 | Recreation Facilities ✓✓RG OR L ✓✓RG | 2RG reading data (2) | DH L1 |
| 4.2.5 | ✓A Twenty eight million , four hundred and one thousand, seven hundred and thirty six rand. ✓A | 1A millions 1A word format of number | DH L1 |
| | | No penalty for units | |
| | | (2) | |
| | | | [37] |

| QUESTION 5 [24] | | | |
|-----------------|---|--|---------|
| Ques | Solution | Explanation | Topic |
| 5.1.1 | | 1A R50 call-out fee 1A R12 × no km | F L2 |
| | | 1A no. km – 3 OR 1A R50 call-out fee | |
| | OR | 1A R12 × no km 1A no. km – 36 | |
| | Cost (R) = $14 + 12 \times$ number of kilometres | OR | |
| | | 2A R14 1A R12 × no. km | |
| | OR | | |
| | Cost (R) = $50 + 12 \times (k - 3)$ Where k = number of kilometres OR | OR 1A 50 call-out fee 1A 12 1A k – 3 (with description of k) | |
| | Cost (R) = $14 + 12 \times k$ Where $k = \text{number of kilometres}$ | OR 1A 50 – 36 1A 12 1A k (with description) | |
| | | Max 2 marks if variable is used and explained incorrectly | |
| | | (3) | |



Please turn over

| Ques | Solution | Explanation | Topic |
|-------|--|---|---------|
| 5.1.3 | \checkmark M/A Cost (without call out fee) = R1 214 − R50 = R 1 164 \checkmark M Kilometres charged = R1 164 ÷ 12 = 97 km \checkmark M Distance travelled = 97 + 3 = 100 km \checkmark A | 1M/A subtracting R50 1M dividing by 12 1M adding 3 km 1A distance | F L2 |
| | OR ✓M/A ✓M ✓M Distance = $[(R1\ 214 - R50) \div R12] + 3 \text{ km}$ = $(R1\ 164 \div R12) + 3 \text{ km}$ = $97 \text{ km} + 3 \text{ km}$ = $100 \text{ km} \checkmark A$ | OR 1M/A subtract R50 1M divide by R12 1M Adding 3 km 1A distance in km | |
| | OR | OR | |
| | If number of kilometeres = $n \checkmark SF$ $1\ 214 = 50 + [12 \times (n-3)]$ $1\ 214 = 50 + 12n - 36$ $12n = 1\ 214 - 50 + 36 \checkmark S$ $n = \frac{1214 - 50 + 36}{12} \checkmark M$ $= 100 \checkmark A$ | 1SF substitution 1S simplify 1M dividing by 12 1A distance in km | |
| | OR | OR | |
| | Table used: | | |
| | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 4A distance in km | |
| | OR | OR | |
| | Distance travelled = $\frac{R1214 - R14}{R12 \checkmark M} \text{ km}$ $= 100 \text{ km} \checkmark \checkmark \text{ A}$ | 1M value of 14 1M divide by 12 2A distance | |
| | Accept correct answer only | (4) | |

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| Ques | Solution | Explanation | Topic |
|-------|--|--|-----------------------|
| 5.1.4 | Total taxi fare = $R50 + (2 \times R12) + R100 + (5 \times R12)$ $\checkmark S \qquad \checkmark S$ = $R50 + R24 + R100 + R60$ = $R234,00 \checkmark CA$ | 1M/A R50 call out fee 1M add R100 1S cost of R24 1S cost of R60 1CA cost of trip | F L1 (2) L2 (3) |
| | OR Return distance from meeting = $5 \text{km} \times 2 = 10 \text{ km} \checkmark A$ Reading from table : R134 for 10 km \checkmark RT Taxi fare = R134 + R100 \checkmark M = R234 \checkmark CA | OR 1M multiply 1A 10 km 1RT R134 1M add R100 1CA cost of trip | |
| | OR $\checkmark M/A \checkmark M$ Total taxi fare = $50 + [12 \times (10 - 3)] + 100$ = $50 + (12 \times 7) + 100 \checkmark M$ $\checkmark S$ = $50 + 84 + 100$ = $R234 \checkmark CA$ | OR 1M/A R50 call out fee 1M subtract 3 km 1M add R100 1S 84 1CA cost of trip | |
| | Reading from graph $\checkmark M$ $5km \times 2 = 10 \text{ km } \checkmark A$ $10 \text{ km cost } R134 \checkmark RG$ Total taxi fare = $R134 + R100 \checkmark M$ = $R234 \checkmark CA$ | OR 1M multiply 1A 10 km 1RG R134 1M add R100 1CA cost of trip Max three marks if answer is R174 or R248 (5) | |

| Ques | Solution | Explanation | Topic |
|-------|--|----------------------------------|----------------|
| 5.2.1 | ✓ W | W W | P L3 |
| | \bigvee WIN (W) \bigvee D \bigvee A | W D | |
| | L L | WL | |
| | ▼ W | DW | |
| | \longrightarrow DRAW (D) \longrightarrow D | DL | |
| | L | DL | |
| | ✓A W | LW | |
| | LOSE (L) | L D ✓A | |
| | L | LL | |
| | NOTE: Accept answers if written in words. | (3) | |
| 5.2.2 | C ✓✓A | 2A statement (2) | P L1 |
| 5.2.3 | $\frac{5}{9}\checkmark\text{CA}$ | 1CA numerator 1CA denominator | P L3 |
| | OR | OR | |
| | ≈55,56% ✓ ✓ CA | 2CA in % form | |
| | OR | OR | |
| | ≈0,56 √ √ CA | 2CA in decimal form (2) | |
| | | | [24] |