

## 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	17 % ✓✓RD  OR 0,17 ✓✓RD	2 RD reading from diagrams	<b>F</b> L1
	$\mathbf{OR}  \frac{17}{100}  \checkmark \checkmark \mathrm{RD}$	Max 1 mark for 17 (2)	F
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)	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 <b>OR</b> $\frac{15}{100}$ × R2 100 ✓ M/A <b>OR</b> 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 <b>milk</b> ✓✓A	2A correct item	<b>F</b> 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	<b>F</b> L1
	$\checkmark$ M <b>A</b> = 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 <b>OR</b> 61 days <b>OR</b> 62 days <b>OR</b> 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	<b>F</b> 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	<b>F</b> 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>B</b> = R318,59 round down ✓CA =R318,55 ✓CA <b>OR</b>	1CA identify correct value for rounding 1CA rounding down from Q 1.2.3	<b>F</b> 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)	<b>F</b> 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	UESTION 2 [26]		
Ques	Solution	Explanation	Topic
2.1.1	7 ✓ ✓ A	2A number of fields	<b>M</b> L1
		Accept 2 as answer	
		(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	M L1
	OR	OR	
	Length of fencing = $33 \text{ m} \times 2 = 66 \text{ m} \checkmark \text{A}$ Total length to buy = $70 \text{ m} \checkmark \text{RO}$ <b>OR</b> 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	
	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 = $125 \text{ m} + 33 \text{ m}$ = $158 \text{ m} \checkmark \text{A}$	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	using at least 123 (2)	
Ques	Solution	Explanation	Topic
			i –

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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 <sup>2</sup> (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 <sup>2</sup> ✓ 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 <sup>3</sup> ✓ CA = $11,40546$ m <sup>3</sup> × 1 000 $\ell$ /m <sup>3</sup> ✓ 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 = $09:11 \checkmark A$ <b>OR</b> 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)	

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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= $9 \times 4$ = $36 \checkmark A$ 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
3.2.4	TABLE 7 TABLE 6	TABLE 1	MP L2
	TABLE 5	TABLE 2	
	TABLE 9 TABLE 4	TABLE 3	
	1A line drawn northern direction (up), passing between 1A line drawn western direction (left) to point Y  Does not have to be horizontal or vertical straight line indication of the route.	s. Accept any	
3.2.5	South West ✓✓A  Accept exact direction only	2A compass direction  1 mark for North East Accept SSW or WSW or NNE or ENE	MP L1
		(2)	

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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 <b>OR</b> 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]

4.1.2 Ihobhe and Sunbird  An Ihobhe and Sunbird  IA Ihobhe IA Sun  Only two in names No mathan to added  4.1.3 (a)  Mean = ${7,50+7,50+7,28+7,28+6,90+6,90+8,40+8,40+6,45}$ ${17}$ ${17}$ ${4}$		
4.1.2 Inobhe and Sunbird  An Inobhe and Sunbird  An Inobhe and Sunbird  An Inobhe and Sunbird  An Inobhe and Sunbird  It A Inobha It A Sun  Only two in names No mathan to added  An Inobhe and Sunbird  An Inobhe and Sunbird  It A Inobha It A Sun  Only two in names No mathan to added  An Inobhe and Sunbird  It A Inobha It A Inobha It A Sun  In Inothe It A Inothe It A Sun  It A Inobhe and Sunbird  It A Inothe It A Sun  It A Inothe It A Su	ation	Topic
Inobhe and Sunbird  In Inobhe and Sunbird  In Inobhe and Sunbird  A.1.3 (a)  Mean =  7,50+7,50+7,28+7,28+6,90+6,90+8,40+8,40+6,45  17 $+\frac{6,45+8,03+8,03+7,13+7,13+6,30+6,30+1,50}{17 \checkmark A}$ In In Inobhe and Sunbird  In In Inobhe and Sunbird  In Inobhe	ass C cost	DH L1
(a) $\frac{7,50+7,50+7,28+7,28+6,90+6,90+8,40+8,40+6,45}{17}$ $+\frac{6,45+8,03+8,03+7,13+7,13+6,30+6,30+1,50}{17 \checkmark A}$ $=\frac{117,48}{17} \checkmark M$ $=R6,91 \checkmark CA$ $1RT con$ $1 A diving the distribution of the content of the content$		DH L1
$= \frac{117,48 \checkmark M}{17}$ $= R6,91 \checkmark CA$ $1CA mc$	(2)	DH L2
= R6,91 ✓CA 1CA mo	ling by 17	
Accept correct answer only		
4.1.3 Ordering: $\checkmark \checkmark M/A$ (b) 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 Values  Median = R7,13 $\checkmark$ CA 1CA models and 1CA models are already as a second	rdering of dian	DH L2

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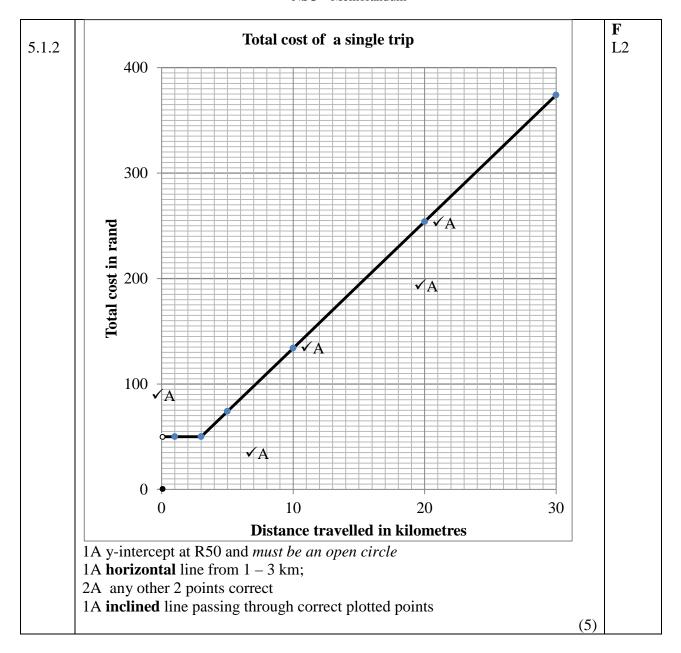
Ques	Solution	Explanation	Topic
4.1.3 (c)	Median is the better representation $\checkmark A$ $\checkmark \checkmark J$ The mean is affected by the R1,50 which is an outlier.  OR $\checkmark A$ Both the mean and the median are suitable representations because the difference between them (R0,22) is negligible $\checkmark \checkmark J$	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)	<b>DH</b> L1
4.1.6	Amount saved $= R5,63 - R2,91$ $= R2,72 \checkmark CA$	1M/A subtracting correct values of Pikoko 1CA value (2)	DH L1

Ques	Solution Explanation	Topic
4.1.7	E-toll tariffs of five selected gantries	DH L2
	20	
	16	
	12 VA VA VA	
	Tariff in rand	
	Barbet Fiscal Famingo Sumbird Tarentaal	
	Fig.	
	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 🗸 A OR E 🗸 A 2A reading data (2)	<b>DH</b> 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 <b>million</b> , 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)	



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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  ✓M  Return distance from meeting = 5km × 2 = 10 km ✓A  Reading from table: R134 for 10 km ✓RT  Taxi fare = R134 + R100 ✓M  = R234 ✓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 $\checkmark M$ $5 \text{km} \times 2 = 10 \text{ km} \checkmark A$ $10 \text{ km cost R134} \checkmark \text{RG}$ 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	<b>P</b> L3
	$\bigvee$ WIN (W) $\bigvee$ D $\bigvee$ A	W D	
	L L	WL	
	▼ W	DW	
	$\longrightarrow$ DRAW (D) $\longrightarrow$ D	DL	
	L	DL	
	W 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)	<b>P</b> L1
5.2.3	$\frac{5}{9}\checkmark\text{CA}$	1CA numerator 1CA denominator	<b>P</b> L3
	OR	OR	
	≈55,56% <b>✓</b> ✓ CA	2CA in % form	
	OR	OR	
	≈0,56 <b>√ √</b> CA	2CA in decimal form (2)	
			[24]