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## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

## **SEPTEMBER 2022**

# MATHEMATICAL LITERACY P1 MARKING GUIDELINE

**MARKS: 150** 

Symbol	Explanation
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT	Reading from a table/a graph/document/diagram
SF	Correct substitution in a formula
0	Opinion/Explanation
P	Penalty, e.g. for no units, incorrect rounding off, etc.
R	Rounding off
NPR	No penalty for correct rounding minimum two decimal places
AO	Answer only
MCA	Method with constant accuracy

This marking guideline consist of 12 pages.

#### MARKING GUIDELINES

#### NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled version)
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however it stops at the second calculation error.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra incorrect item presented.

#### **NASIENRIGLYNE**

#### LET WEL:

- As 'n kandidaat 'n vraag TWEE keer beantwoord, merk slegs die EERSTE poging.
- As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, merk die doodgetrekte (gekanselleerde) poging.
- Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyn toegepas, maar dit hou by die tweede berekeningsfout op.
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra verkeerde item.

QUEST	FION 1 [30 MARKS] ANSWER ONLY FULL M	ARKS	
Ques.	Solution	Explanation	T&L
1.1.1	Petrol price = R9,37 + R4,09 +R2,18 + R3,83 = R19,47 OR Petrol price = $180,78 \div 100 \times R10,77$ = R19,47	1RT adding correct 2 values 1RT adding other correct values (2)	F L1 E
1.1.2	173% ✓✓RT	2 RT correct % value corresponding to petrol levy (2)	F L1 E
1.1.3	$\checkmark$ MA $\checkmark$ M 1,49 × R6,29 =R9,3721 $\checkmark$ S =R9,37	1MA value 1,49 1M multiplication with 6,29 1S simplification. correct values	F L1 D
	OK .		
	$\frac{\checkmark}{100}$ MA $\checkmark$ S $\frac{\checkmark}{100}$ × 6,29 = R3,08	OR 1MA multiplication with % 1S simplification	
	Price = R6,29+R3,08 ✓M = R9,37	1M adding (3)	
1.2.1	Facebook data = $400,45 - (27,45 + 90 + 43 + 125)$ = $115 \text{ MB } \checkmark \text{CA}$	1M subtracting other values from total 1CA Facebook data with units (2)	D L1 E
1.2.2	1 000 MB : R149 1 MB : R0,149 $\checkmark$ M 400,45 MB : R0,149 $\times$ 400,45 $\checkmark$ M Cost of 400,45 MB = R59,67 $\checkmark$ CA	1M cost of 1 MB 1M cost of 1MB multiplying by 400,45 1CA answer	F L1 E
	OR 1 000 cost R149,00 The cost of 400,45 = $\frac{\checkmark M}{\frac{400,45}{1000}} \times 149 \checkmark M$ = R59,67 $\checkmark$ CA	OR  1M fraction with correct values 1M multiplication by R149. 1CA answer  (3)	

1.2.3	Balance = 1 000 MB – 400,45 MB	1S subtraction and	D
1.2.3	$= 599,55 \text{ MB} \checkmark \text{S}$	simplifying for balance in	L1
	= 355,55 1112 + 5	MB	D
	= 599,55× 1 000 ✓C	1C conversion to KB by	
	,	multiplying by 1 000	
	= 599 550 KB ✓CA	1CA answer	
	OP		
	OR ✓C		
	Balance = 1 000 000 – 400 450 KB	1C conversion to KB by	
	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	multiplying by 1 000	
	= 599 550 KB ✓CA	1S subtraction	
		1CA answer	
		(3)	
1.3.1	Income = 200 000 + 71 750 + 2 000 (2.54)	1MA adding the images its	F
1.3.1	Income = $300\ 000 + 71\ 750 + 3\ 000\ \checkmark MA$	1MA adding the income items 1A answer	L1 E
	= R374 750	(2)	L
	1677700		F
1.3.2	Deficit; Loss,	2O Choice	L1
	income is less than expenditure;		E
	income shortage experienced $\checkmark\checkmark$ O	(2)	
1.0.0	G. L. L.C. (/DT	200	F
1.3.3	School fees ✓✓RT	2RT reading the item of income that decreased a lot	L1 E
		income that decreased a lot (2)	E
	✓M	(2)	D
1.4.1	National = 46 960 + 21 450 + 87 381 + 105 651	1MA adding	L1
	+ 59 560 + 37 857 + 30 125 + 9 813 + 42 270	1CA answer	E
	= 441 067  ✓CA	(2)	
1.40	✓RT	1DT 1 1 1	D
1.4.2	68,6; 67,2; 71,3; 71,5; 72,3	1RT values less than national	L1
	= 5 ✓CA	performance 1CA answer AO (2)	E
		1CA answer AO (2)	D
1.4.3	✓ <sub>RT</sub> ✓ <sub>M</sub>		L1
	Number Passed = $72.3 \% \times 46960$	1RT 72,3% and 46 960	M
		1M multiplication	
	= 33 952,08	1S simplification	
	✓ CA	1R rounding	
	= 33 952	(Accept 33 953)	
	✓ MA	(3)	D
1.4.4	100 - 71.3 % = 28.7%	1MA subtracting 71,3 from	P L1
1.7.7	100 /1,5 /0 - 20,7 /0	100	E
		1A answer	L
		(2)	
		[30]	

QUEST	TON 2 [27 MARKS]		
Ques.	Solution	Explanation	T&L
2.1.1	Ratio = $40:190 \checkmark M$ = $1:4,75 \checkmark CA$	1M correct values ratio form 1CA correct answer (2)	F L2 E
2.1.2	% saving = $\frac{101}{300} \times 100\%$ $\checkmark$ M = 33,67 % $\checkmark$ CA	1M correct values and concept of % 1 CA correctly rounded answer (2)	F L2 E
2.1.3	Savings on Casio = $8 \times R101 = R808$ Savings on Sharp = $12 \times R40 = R480 \checkmark M$ Total savings = $R808 + R480$ = $R1 \ 288,00 \ \checkmark CA$	1M savings on Casio 1M savings on Sharp 1 CA addition and answer	F L2 E
	OR	OR	
	Savings on Casio= $(R300 \times 8) - (R199 \times 8) = R808 \checkmark M$	1M savings on Casio	
	Savings on Sharp = $(R190 \times 8) - (R150 \times 8) = R480$	1M savings on Sharp	
	Total savings = $R808 + R480 = R1 \ 288,00$ $\checkmark CA$	1CA addition and answer (3)	
2.2	Interest year 1: $\frac{9,5}{100} \times 4500 = R427,50 \checkmark A$	1A interest for year 1	F L4 M
	Amount for $2^{nd}$ year start = R4500 + R427,50 = R4 927,50 $\checkmark$ CA	1CA amount for start year 2	
	Interest year $2 = \frac{9.5}{100} \times R4\ 927.50 = R468.11$	1CA interest for year 2	
	Amount at end of 2 <sup>nd</sup> year = R4 927,50 + R468,11 = R5 395,61 ✓CA GET LESS THAN THE BUDGETED ✓O	1CA answer 1O reason	
	OR $\checkmark M \qquad \checkmark A$ At end of year 1 amount = $1,095 \times 4500 = R4927,50$ At end of year 2: $\checkmark M \qquad \checkmark A$	1M multiplication with % including interest 1A amount at end of year 1	
	Amount = 1,095 × 4 927,50 = R5 395,61 ✓O GET LESS THAN THEY BUDGETED	1M multiplication with % including interest. 1A amount at end year 2 1O reason (5)	

2.3.1	Gross income is the amount of her salary (income) before deductions are made. $\checkmark \checkmark O$	2O correct explanation (2)	F L1 M
2.3.2	Tax = $\frac{18}{100} \times 151\ 100\ \checkmark M$ = R27 198 $\checkmark$ S Rebates (for 75 years or older) = R15 714 + R8 613 + R2 871 = R27 198 $\checkmark$ S Actual tax = Tax - Rebates = R27 198 - R27 198 $\checkmark$ M = R0 (no tax to pay) $\checkmark$ A	1M 18% of 151 100  1S simplification  1S adding all the rebates  1M subtracting rebates from tax payable 1A answer	F L2 M
2.3.3	Annual Income (Gross) = R39 $486 \times 12$ = R473 $832 \checkmark M$ Annual Pension = R473 $832 \times 7,5\% \checkmark M$ = R35 $537,40 \checkmark CA$ Taxable income = R473 $832 - R35 537,40$ = R438 $294,60 \checkmark A$ Tax brackect 3: R337 $801 - R467 500$	1M gross annual income  1M for 7,5% of gross annual income)  1CA annual pension  1A taxable income	F L4 D
	Tax = 70 532 + 31 % of taxable income above R337 800 = 70 532 + $\frac{31}{100}$ × (438 294,60-337 800) $\checkmark$ SF = 70 532 + $\frac{31}{100}$ × 100 494,60 = 70 532 + 31 153,33 $\checkmark$ S = R101 685,33 $\checkmark$ CA Annual Tax payable = R101 685,33 - Primary rebate = R101 685,33 - R15 714 = R85 971,33 $\checkmark$ MCA	1SF substitution in tax bracket 3  1S simplification 1CA tax before rebate  1MCA simplification: tax after subtracting rebate  (8)	

QUEST	TION 3 [30 MARKS]		
Ques.	Solution	Explanation	T&L
3.1.1	KZN (males) = $69\ 000 + 99\ 000 + 214\ 000\ \checkmark MA$ = $382\ 000\ \checkmark CA$	1MA adding correct values 1CA answer (2)	D L1 E
3.1.2	Range = Highest value − Lowest value = 363 000 − 34 000	1RT correct values 1M subtraction 1CA answer (3)	D L2 E
3.1.3	✓M $725\ 000 + 597\ 000 + 143\ 000 + 316\ 000 + 757\ 000 + 400\ 000 + 1199\ 000 + 322\ 000 + 277\ 000$ $= 4\ 736\ 000$ $Mean = \frac{4\ 736\ 000}{9}$ $= 526\ 222,22$ ✓CA	1M Adding values  1M dividing by 9  1CA answer (NPR) (3)	D L2 M
3.1.4	Provincial totals with chronic sickness (in '000')  ✓M  WC: 1 225; EC: 987; NC: 203; FS: 433; KZN: 1 290;  NW: 547; GP: 1 803; MP: 500; LP: 406  Arrange:	1M totals of the provincial numbers with chronic health conditions.	D L3 M
	203; 406; 433; 500; 547; 987; 1 225; 1 290; 1 803 ✓CA Median = 547 ✓CA	1CA arranging 1CA answer (3)	
3.1.5	TOTAL (IN '000') OF DIABETIC PEOPLE FROM ALL PROVINCES  \$ 400  150  150  100  100  WC EC NC FS KZN NW GP MP LP	1M for first 3 provinces plotted correctly 1M next 3 provinces plotted correctly 1M last 3 provinces plotted correctly 1CA joining the points	D L3 E
	PROVINCES	(4)	

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3.1.6	Female with diabetes in KZN = $264 \checkmark RT$	1RT number from	P
	Total people with chronic conditions in KZN	table for 264.	L3
	$= 170 + 363 + 757$ $\checkmark$ M	1M total with	D
	= 1 290	chronic in KZN	
	P (Female with diabetes) = $\frac{264}{1290} \times 100 \% \text{M}$	1M fraction and	
	1290 1290 1290 1290 1290 1290 1290 1290	multiplication with	
	20.457.04	100%	
	= 20,465 %	1CA answer	
	= 20,5 % ✓CA	(4)	
		(.,	D
3.2.1	Bar graph ✓✓A	2A graph	L1
3.2.1	But gruph VVA	2A naming the graph	E
			Ľ
		(2)	D
3.2.2	59,62 - (1,29 + 4,68 + 6,73 + 2,93 + 5,85 + 4,11 + 7,01 +	1M adding the	L2
3.2.2	11, 53) $\checkmark$ M	_	M
		population	IVI
	= 59,62 – 44,13	1M subtracting total	
	= 15,49 million \( \sqrt{M} \)	from 59,62	
	= 15 490 000 ✓A	1A answer	
		CA final answer in	
	Fifteen million, four hundred ninety thousand. ✓CA	words	
		(4)	
<b>—</b>	<del> </del>	\ /	
3.2.3	Population arranged in order: $\checkmark_{M}$	CA value GP from	D
3.2.3	Population arranged in order:   1,29; 2,93; 4,11; 4,68; 5,85; 6,73; 7,01; 11,53; 15,49	\ /	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85;</b> 6,73; 7,01; 11,53; <b>15,49</b>	CA value GP from	
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85;</b> 6,73; 7,01; 11,53; <b>15,49</b>	CA value GP from	L3
3.2.3	1/1	CA value GP from	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$	CA value GP from 3.2.2	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85;</b> 6,73; 7,01; 11,53; <b>15,49</b>	CA value GP from 3.2.2  1M arranging	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$	CA value GP from 3.2.2  1M arranging	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$	CA value GP from 3.2.2  1M arranging population in order.	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ = 3,52 $\checkmark$ CA	CA value GP from 3.2.2  1M arranging population in order.	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$	CA value GP from 3.2.2  1M arranging population in order.	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.  1CA answer for Q1	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.  1CA answer for Q1	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.  1CA answer for Q1  1CA answer for Q3	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.  1CA answer for Q1  1CA answer for Q3  1SF formula	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.  1CA answer for Q1  1CA answer for Q3  1SF formula  1CA answer with	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.  1CA answer for Q1  1CA answer for Q3  1SF formula  1CA answer with million	L3
3.2.3	1,29; 2,93; 4,11; 4,68; <b>5,85</b> ; 6,73; 7,01; 11,53; <b>15,49</b> $Q1 = \frac{2,93+4,11}{2}$ $= 3,52                                   $	CA value GP from 3.2.2  1M arranging population in order.  1CA answer for Q1  1CA answer for Q3  1SF formula  1CA answer with	L3

QUES	TION 4 [32 MARKS]		
Ques.	Solution	Explanation	T&L
4.1.1 (a)	C = R200 (the first 200 minutes free) $\checkmark \checkmark$ RT	2 RT reading from given info	F L1 M
	OR  Total expenses = $200 + (n - 100) \times 1,20$ = $200 + (100 - 100) \times 1,20 \checkmark SF$ = $200 + 0 \times 1,20$ = $R200 \checkmark A$	OR  1SF substitution 1A simplification and answer (2)	
4.1.1 (b)	Total expenses $= 200 + (n - 100) \times 1,20$ $500 = 200 + (D - 100) \times 1,20$ $500-200 = (D - 100) \times 1,20$ $300 \div 1,2 = D - 100$ $\checkmark$ S 250 = D - 100 250 + 100 = D $350 = D \checkmark A$	1SF substitution 1S simplification 1A answer (3)	F L3 D
4.1.2	Prepaid means airtime is paid in advance. <b>OR</b> One pays before can make calls, sms, etc.	2O explanation (2)	F L1 E
4.1.3	Jane paid = $R1,75 \times 200 \checkmark MA$ = $R350 \checkmark A$	1MA multiplication 1A (2)	F L1 E
4.2.1	VVRT R80	2RT reading from the table (2)	F L1 E
4.2.2	Total = $80 + 2,25 \times \frac{\checkmark SF}{100} + 5 \times \frac{500}{100}$	2SF substitution	F L4 M
	$= R80 + R33,75 + R25 \checkmark S$	1S simplification	
	$Total = R138,75  \checkmark S$	1S simplification	
	Statement NOT valid. ✓O	1O opinion (5)	

Ques.	Solution	Explanation	T&L
	√MA	•	F
4.2.3	$VAT \text{ amount } = \frac{15}{115} \times 1500 \checkmark MA$	1MA for fraction	L1
	$\sqrt{A1}$ amount $-\frac{1}{115}$ $\sqrt{A1}$ 500 $\sqrt{MA}$	with correct values	M
		1MA multiplication	
	$= R195,65  \checkmark A$	with R1 500	
	OR	1A answer. (3)	
	100	OR	
	VAT exclusive price = $\frac{100}{115} \times 1500 = R1304,35$ $\checkmark$ MA	1MA for VAT exclusive price	
	NAT	exclusive price	
	VAT amount = R1 500–R1 304,35 ✓MA	1MA subtracting the	
	$= R195,65  \checkmark A$	values	
		1A answer (3)	_
4.2.4	Cashsend ✓O	1O explanation	F L1 E
	eWallet ✓O	1O explanation (2)	L
			F
4.3.1	Amount for 5 days = R4 042,19 $\times$ 5	1MA amount in	L3
	$= R20\ 210,95 \ \checkmark MA$	Rands for 5 days	D
	R5:(¥)37,51715	1M multiplication	
	R20 210,95 : ? ✓ M	values in numerator	
	$20\ 210.95 \times 37.51715$	1M division by 5	
	Exhanged Yens = $\frac{5 \checkmark M}{}$	,	
	3 <b>V</b> [VI	1CA answer	
	= ¥151 651,45 ✓CA	(4)	
			F
4.3.2	Daily rental fee = $368, 6 \times 2 \times 1,82$ $\checkmark$ C	1C converting cents	L2
	$= R1 341,70 \checkmark CA$	to Rands	Е
		1M multiply correct	
		values	
		1CA Answer	
		(3)	
		, ,	F
4.3.3	$100 \text{ km} = 7 \ell$	1RT using 0,07 litres	L3
	$1 \text{ km} = 0.07 \ell \checkmark \text{RT}$	1M number of litres	Е
		of petrol	
	Petrol cost = $(0.07 \times 368.6 \text{ km} \times 2) \times \text{R}19.89  \checkmark \text{M}$	1M multiplication by	
	$= R1 026,40 \checkmark CA$	R19,89	
	•	1CA answer.	
		(4)	
		[32]	

QUES'	TION 5 [ 31 MARKS]		
Ques.	Solution	Explanation	T&L
5.1.1	Tickects for under $18 = \frac{3}{6} \times 930$ $\checkmark$ MA $= 465 \checkmark A$	1MA multiplication of fraction and 930 1A answer (2)	D L1 E
5.1.2	Amount = $\frac{60}{100} \times \frac{7}{6} \times 930 \times 45$ $= R36 270 \checkmark A$	1M multiplication of % and fraction of 930 1M multiplication of R45	F L2 M
	OR	1A answer OR	
	Tickets sold in $2021 = \frac{60}{100} \times 930 = 558$ $\checkmark$ M  Tickets for Adults = $\frac{2}{6} \times 558 = 186$ $\checkmark$ M  Costs of tickets = $186 \times 45 = R8370$ $\checkmark$ CA	1M tickets sold in 2021 1M tickets bought by adults in 2021 1CA answer (3)	
5.2.1	Line graph, compound bar graph ✓✓O	2O explanation (2)	D L1 E
5.2.2	Switzerland✓✓RT	2RT reading the pie chart data (2)	D L1 E
5.2.3	$100\% - (3\% + 3.6\% + 5\% + 4\% + 6\% + 8\% + 9\% + 20.5\% + 17.5\%) \qquad \checkmark M \checkmark M$ $= 23.4\% \times 1848412 \checkmark M$ $= 432528.4 \checkmark S$ $= 432528 \checkmark A$ NOT CORRECT $\checkmark O$	1M addition of percentage 1M subtraction of total from 100% 1M 23,4% of total 1S simplification 1A answer	D L4 D
5.2.4	Probability = 9% $\checkmark$ RT $= \frac{9}{100} \checkmark M$	1RT correct % 1M fraction 1A answer in	P L2 M
	= 0,09 ✓A	decimal (3)	

5.2.5	Covid-19 restrictions no movements $\checkmark \checkmark O$	20 reason	D
		(allow any other possible reason) (2)	L1 E
5.3.1	Immediately get money from customers ✓O	10 reason	F
3.3.1		10 Teuson	L1
	It easy to collect its income from electricity ✓O	10 reason	M
	No bad debts on prepaid electricity ✓O	(2)	
	It enables its customers to save electricity and the	(=)	
	municipality can supply more customers ✓O		
	It gets more income on customers that use more		
	electricity ✓ O		
	Accept any other logical explanation.		
5.3.2	Units purchased = $\frac{R68,02}{1,4472}$ $\checkmark$ MA $\checkmark$ C	1MA division with	F
	1,44/2	the correct values	L3
	= 47 kWh ✓A	1A answer	M
5.3.3	Municipality's cost = $290 \times 1,33$	(3) 1A municipality's	F
3.3.3	$= R385,50 \checkmark A$	cost	г L4
	Customer pays:	1MA multiplication	M
	$50 \times 1,4472 = R72,36$ $\checkmark MA$	and simplification in	171
	, , , , , , , , , , , , , , , , , , , ,	block 1	
	$240 \times 1,8606 = R446,544$ $\checkmark_{MA}$	1MA multiplication	
		and simplification in	
	Total price paid = $R72,36 + R446,544$	block 2	
	= R518,90		
	% Profit = $\frac{R518,90-R385,50}{R385,50} \times 100 \% \text{ SF}$	1SF substitution in	
	$\frac{70 \text{ FIOII}}{R385,50} = \frac{100  70}{R385,50}$	formula	
	= 34,60 % ✓CA	1CA answer	
	Valid ✓O	10 answer (6)	
		[31]	
		[01]	
		TOTAL: 150	

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