basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/
NATIONAL SENIOR CERTIFICATE EXAMINATIONS
SENIORSERTIFIKAAT-EKSAMEN/
NASIONALE SENIORSERTIFIKAAT-EKSAMEN

MATHEMATICAL LITERACY P1/*WISKUNDIGE GELETTERDHEID V1*

MAY/JUNE/*MEI/JUNIE* 2026

MARKING GUIDELINES/*NASIENRIGLYNE*

MARKS/*PUNTE*: 150

Symbol/*Kode*	Explanation/*Verduideliking*
MA	Method with accuracy/*Metode met akkuraatheid*
CA	Consistent accuracy/*Volgehoue akkuraatheid*
A	Accuracy/*Akkuraatheid*
C	Conversion/*Herleiding*
S	Simplification/*Vereenvoudiging*
RT	Reading from a table/graph/document/diagram/*Lees vanaf tabel/grafiek/dokument/diagram*
SF	Correct substitution in a formula/*Korrekte vervanging in 'n formule*
O	Opinion/Explanation/*Opinie/Verduideliking*
P	Penalty, e.g. for no units, incorrect rounding off, etc./*Penalisasie, bv. vir geen eenhede, verkeerde afronding, ens.*
R	Rounding off/*Afronding*
NPR	No penalty for rounding/*Geen penalisasie vir afronding nie*
NPU	No penalty for omitting correct unit/*Geen penalisasie vir die uitlos van die korrekte eenheid nie.*
AO	Answer only/*Slegs antwoord*
MCA	Method with consistent accuracy/*Metode met volgehoue akkuraatheid*
RCA	Rounding consistent with accuracy/*Afronding met volgehoue akkuraatheid*

These marking guidelines consist of 21 pages. /
Hierdie nasienriglyne bestaan uit 21 bladsye.

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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 or break-down.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.
- Rounding is an independent mark.
- General principle of marking, if the candidate makes one mistake one mark is deducted.
- A conclusion mark can only be given if relevant calculations precedes it (at least a $\frac{1}{3}$ of the mark before conclusion).
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money.

LET WEL:

- *As 'n kandidaat 'n vraag TWEE KEER beantwoord, sien slegs die EERSTE poging na.*
- *As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, sien die doodgetrekte (gekanselleerde) poging na.*
- *Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyne toegepas; dit hou egter op by die tweede berekeningsfout of 'break-down'.*
- *Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.*
- *Afronding tel as 'n afsonderlike punt.*
- *Die algemene beginsel van merk as 'n leerder een fout maak, word een punt afgetrek.*
- *'n Gevolgtrekkingspunt kan slegs gegee word indien relevante berekeninge dit voorgaan (ten minste'n $\frac{1}{3}$ van die punt voor die gevolgtrekking).*
- *Geen penalisering vir ronding (NPR) as die eerste desimaal korrek is nie, behalwe as vrae geld insluit.*

QUESTION/*VRAAG* 1 [29 MARKS/*PUNTE*] ANSWER ONLY FULL MARKS			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
1.1.1	D ✓✓A	2A correct letter (2)	D L1 E
1.1.2	E ✓✓A	2A correct letter (2)	F L1 E
1.1.3	B ✓✓A	2A correct letter (2)	D L1 E
1.1.4	G ✓✓A	2A correct letter (2)	D L1 E
1.1.5	H ✓✓A	2A correct letter (2)	F L1 E

Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
1.2.1	R525 202 ✓RT ≈ R530 000 ✓R	1RT correct amount 1R correct rounding (2)	F L1 E
1.2.2	Number of months / *Getal maande* ✓RT = 8 × 12 ✓MA = 96 months / *maande* ✓A	 1RT correct value 1MA multiplying by 12 1A simplification (3)	F L1 M
1.2.3	Monthly saving / *Maandelikse besparing* = R1 000 ✓✓RT	 2RT correct amount (2)	F L1 M
1.2.4	Difference / *Verskil* ✓RT ✓RT = R714 694 – R238 231 = R476 463 ✓A	 1RT R714 694 1RT R238 231 1A simplification (3)	F L1 M

Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
1.3.1	Discrete data / *Diskrete data* ✓✓A	2A correct classification (2)	D L1 E
1.3.2	Overseas / *Oorsee* ✓✓A	2A correct region (2)	D L1 E
1.3.3	Total number of tourists / *Totale aantal toeriste* ✓RT = 216 406 + 245 787 = 462 193 ✓A **OR / *OF*** Total number of tourists / *Totale aantal toeriste* = 40 927 + 171 086 + 4 393 + 36 180 + 205 023 + 4 584 ✓RT = 462 193 ✓A	 1RT both correct values 1A simplification **OR / *OF*** 1RT correct values 1A simplification (2)	D L1 E
1.3.4	Number of tourists / *Aantal toeriste* ✓RT **A** = 679 404 – (58 166 + 76 741 + 171 086 + 205 023 + 110 686 + 17 250) ✓MA **A** = 679 404 – 638 952 **A** = 40 452 ✓A **OR/*OF*** Number of tourists / *Aantal toeriste* ✓RT **A** = 73 420 – (31 782 + 1 186) ✓MA **A** = 73 420 – 32 968 **A** = 40 452 ✓A	 1RT 679 404 1MA adding values 1A simplification **OR/*OF*** 1RT 73 420 1MA adding values 1A simplification (3)	D L1 E
		[29]	

QUESTION/*VRAAG* 2 [34 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
2.1.1	Order number / *Bestellingsnommer* ✓✓RT	2RT reading from table (2)	F L1 E
2.1.2	Discount amount/ *Afslag bedrag* $= R29,99 \times \frac{15}{100}$ **OR / *OF*** $\times 0,15$ ✓MA = R4,50 Therefore **A** = –R4,50 ✓A	1MA calculating 15% 1A simplification Accept: R4,50 **AO** (2)	F L1 E
2.1.3	✓RT **B** = R69,00 + R16,98 = R85,98 = R85,98 ÷ 2 ✓MCA = R42,99 ✓CA **OR / *OF*** ✓RT **B** = (R69,00 ÷ 2) + (R16,98 ÷ 2) ✓MCA = R34,50 + R8,49 = R42,99 ✓CA	1RT R69,00 AND R16,98 1MCA dividing by 2 1CA simplification **OR / *OF*** 1RT R69,00 AND R16,98 1MCA dividing by 2 1CA simplification **AO** (3)	F L2 D
2.1.4	Total payment / *Totale betaling* = R396,98 + R35,00 ✓RT = R431,98 ✓A **C** = R431,98 – R61,05 ✓MCA = R370,93 ✓CA	1RT R396,98 AND R35,00 1A simplification 1MCA subtracting values 1CA simplification **AO** (4)	F L2 M
2.1.5	VAT is not calculated on all amounts / *BTW word nie op al die bedrae bereken nie.* ✓✓O **OR / *OF*** The prices on the slip already include 15% VAT / *Die pryse op die strokie sluit reeds 15% BTW in.* ✓✓O **OR / *OF***	2O reason **OR / *OF***	F L4 M

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
2.1.5	R70,55; R42,99 and R21,99 are the only values that include VAT / *R70,55; R42,99; R21,99 is die enigste waardes wat BTW insluit.* ✓✓O **OR / *OF*** Some items are VAT exempt/zero rated / *Sommige items sluit geen BTW in nie/nulkoers items.* ✓✓O	2O reason	
2.2.1	✓RT = 45 000 : 208 300 ✓MA = 1 : 4,63 ✓CA	1RT correct values 1MA correct order 1CA unit ratio **AO** (3)	F L2 E
2.2.2	Balance owing / *Balans verskuldig* = R208 300 – R45 000 – R99 650 ✓MA = R63 650 ✓A	1MA subtracting correct values 1A simplification **AO** (2)	F L1 E
2.2.3	Payment plan 1 / *Betaalplan 1* = R9 000 × 12 = R108 000 ✓A Payment plan 2 / *Betaalplan 2* = R51 825 × 2 ✓MA = R103 650 ✓CA Difference / *Verskil* = R108 000 – R103 650 = R4 350 ✓CA **OR / *OF***	1A R108 000 1MA multiplying by 2 1CA simplification 1CA simplification **OR / *OF***	F L3 M

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
2.2.3	Payment plan 2 per month / *Betaalplan* 2 per *maand*		
	= R51 825 ÷ 6 ✓MA	1MA division by 6	
	= R8 637,50 ✓A	1A simplification	
	Difference per month / *Verskil per maand*		
	= R9 000 – R8 637,50		
	= R362,50 ✓CA	1CA simplification	
	Difference per year / *Verskil per jaar*		
	= R362,50 × 12		
	= R4 350 ✓CA	1CA simplification	
	OR / *OF*	**OR / *OF***	
	Payment plan 1 per semester / *Betaalplan 1 per semester*		
	= R9 000 × 6 ✓MA	1MA multiplying by 6	
	= R54 000 ✓A	1A simplification	
	Difference per semester / *Verskil per semester*		
	= R54 000 – R51 825		
	= R2 175 ✓CA	1CA simplification	
	Difference per year / *Verskil per jaar*		
	= R2 175 × 2		
	= R4 350 ✓CA	1CA simplification (4)	

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
2.2.4	Year 1 / *Jaar 1*		F L3 M
	$= \text{R}39\,500 \times \frac{7{,}15}{100}$ ✓MA	1MA interest calculation	
	= R2 824,25 ✓A	1A year 1 interest	
	Amount end of year 1 / *Bedrag einde van jaar 1*		
	= R39 500 + R2 824,25		
	= R42 324,25 ✓MCA	1MCA balance after year 1	
	Year 2 / *Jaar 2*		
	$= \text{R}42\,324{,}25 \times \frac{7{,}85}{100}$		
	= R3 322,453625 ✓CA	1CA year 2 interest	
	Amount end of year 2 / *Bedrag einde van jaar 2*		
	= R42 324,25 + R3 322,453625		
	= R45 646,70 ✓CA	1CA simplification	
	OR / *OF*	**OR / *OF***	
	Amount end of year 1 / *Bedrag einde van jaar 1*		
	$= \text{R}39\,500 \times \frac{107{,}15}{100}$ ✓A ✓MA	1A $\frac{107{,}15}{100}$ 1MA interest calculation	
	= R42 324,25 ✓CA	1CA amount year 1	
	Amount end of year 2 / *Bedrag einde van jaar 2*		
	$= \text{R}42\,324{,}25 \times \frac{107{,}85}{100}$ ✓MC	1MCA calculating interest	
	= R45 646,70 ✓CA	1CA amount year 2	
	OR / *OF*	**OR / *OF***	

Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
2.2.4	✓MA ✓A ✓CA $= R39\,500 \times \frac{107,15}{100} \times \frac{107,85}{100}$ ✓MC = R45 646,70 ✓CA	1A $\frac{107,15}{100}$ 1MA interest calculation year 1 1CA amount year 1 1MCA calculating interest year 2 1CA amount year 2 (5)	F L3 M
2.3.1	Possible outcomes / *Moontlike uitkomste* = 6 / six / *ses* ✓✓A	2A correct number (2)	P L1 E
2.3.2	(i) Bw / wB ✓A (ii) Rb / bR ✓A	1A correct option 1A correct option (2)	P L2 M
2.3.3	Probability / *Waarskynlikheid* $= \frac{2}{6}$ OR $\frac{1}{3}$ ✓A ✓A = 0,333 ✓CA	1A numerator 1A denominator 1CA simplification **AO** (3)	P L2 M
		[34]	

QUESTION/*VRAAG* 3 [29 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
3.1.1	Survey / *Opname* ✓✓A **OR / *OF*** Questionnaire / *Vraelys* ✓✓A **OR / *OF*** Interview / *Onderhoud* ✓✓A	2A correct instrument (2)	D L1 E
3.1.2	Western Cape; Gauteng; Mpumalanga; Northern Cape; Eastern Cape; KwaZulu-Natal; North West; Free State; Limpopo / ✓✓A *Wes-Kaap; Gauteng; Mpumalanga; Noord-Kaap; Oos-Kaap; KwaZulu-Natal; Noordwes; Vrystaat; Limpopo* **OR / *OF*** WC; GP; MP; NC; EC; KZN; NW; FS; LP / *WK; GP; MP; NK; OK; KZN; NW; VS; LP* ✓✓A	2A provinces in correct order (2)	D L2 M
3.1.3	Mean / *Gemiddeld* ✓MA $= \frac{33\,487 + 16\,140 + 20\,850 + 13\,982 + 15\,834 + 14\,775 + 29\,333 + 21\,964 + 10\,833}{9}$ $= \frac{177\,198}{9}$ ✓MA = R19 688,67 ✓CA	1MA adding ALL 9 values 1MA concept of mean 1CA simplification **AO** (3)	D L2 E
3.1.4	0 **OR** 0% **OR** $\frac{0}{9}$ ✓✓A **OR** zero / *nul* **OR** impossible / *onmoontlik*	2A correct probability (2)	P L2 E

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
3.1.5	Budget/*Begroting* $= \text{R}21\,964 \times \frac{100}{18,7}$ ✓MA = R117 454,545454 ✓CA Value of P / *Waarde van P* $= \text{R}117\,454,545454 \times \frac{30,3}{100}$ ✓MC = R35 588,73 ✓CA The statement is VALID / *Die bewering is GELDIG.* ✓O **OR / *OF*** Value of P / *Waarde van P* ✓MA $= \frac{\text{R}21\,964}{0,187} \times 0,303$ ✓MC ✓CA = R35 588,73 ✓CA The statement is VALID/*Die bewering is GELDIG.* ✓O **OR / *OF*** Value of P / *Waarde van P* P : 30,3 21 964 : 18,7 ✓MA ✓CA $= \frac{30,3}{18,7} \times 21\,964$ ✓MC = R35 588,73 ✓CA The statement is VALID / *Die bewering is GELDIG.* ✓O	1MA reverse percentage calculation 1CA simplification 1MCA percentage calculation 1CA simplification 1O conclusion **OR / *OF*** 1MA reverse percentage calculation 1MCA percentage calculation 1CA simplification 1CA simplification 1O conclusion **OR / *OF*** 1MA concept of ratio 1CA simplification 1MCA percentage calculation 1CA simplification 1O conclusion (5)	D L4 D

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
3.1.6	The total household budget amount is higher / *Die totale huishoudelike begroting bedrag is meer.* ✓✓O **OR / *OF*** Average income per household is higher / *Gemiddelde inkomste per huishouding is hoër.* ✓✓O	2O reason (2)	D L4 M
3.2.1	Pie graph **OR** Pie chart ✓✓A *Sirkelgrafiek* **OF** *Sirkeldiagram*	2A correct graph (2)	D L1 E
3.2.2	Public transport too expensive / *Openbare vervoer te duur.* ✓✓A	2A correct reason (2)	D L1 E
3.2.3	Nearby / close enough */ Naby / naby genoeg* ✓RT = 100% – (8,9 + 7,6 + 1,9 + 0,4 + 0,7) = 100% – 19,5% ✓A = 80,5% ✓CA Number of students / *Aantal studente* $= 5\ 154\ 000 \times \frac{80,5}{100}$ ✓MC = 4 148 970 ✓CA **OR / OF** = 8,9 + 7,6 + 1,9 + 0,4 + 0,7 ✓RT = 19,5% ✓A Students not walking / *Studente wat nie loop nie* = 5 154 000 × 19,5% = 1 005 030 ✓CA Students walking */ Studente wat loop* = 5 154 000 –1 005 030 ✓MC = 4 148 970 ✓CA	1RT all correct values 1A 19,5% 1CA simplification 1MCA calculating 80,5% 1CA simplification **OR / OF** 1RT all correct values 1A 19,5% 1CA simplification 1MCA subtracting 1CA simplification (5)	D L2 M

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
3.2.4	Fewer people in rural areas / *Minder mense in landelike gebiede.* ✓✓O **OR / *OF*** Most people are walking to their destination / *Meeste mense loop na hul eindbestemming.* ✓✓O **OR / *OF*** Some rural areas not suitable for public transport / *Sekere landelike gebiede nie geskik vir publieke vervoer nie.* ✓✓O **OR / *OF*** Inaccessible roads due to lack of transport infrastructure / *Ontoeganklike paaie as gevolg van swak infrastruktuur.* ✓✓O **OR / *OF*** Rural areas have vast distances making it financially non beneficial / *Landelike gebiede het groot afstande wat dit finansieël nie voordelig maak nie* ✓✓O **OR / *OF*** Fewer options of public transport available in rural areas / *Landelike gebiede het minder opsies van openbare vervoer beskikbaar* ✓✓O	2O reason (2)	D L4 D
3.2.5	Probability / *Waarskynlikheid* $= 0,3\%$ OR $\frac{0,3}{100}$ $= \frac{3}{1\,000}$ ✓A ✓A **OR / *OF*** Probability / *Waarskynlikheid* $= \frac{14\,901}{4\,967\,000}$ ✓A ✓A	1A numerator 1A denominator (2)	P L2 M
		[29]	

QUESTION/*VRAAG* 4 [32 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
4.1.1	Forty-nine billion two hundred and fourteen million six hundred and forty-one thousand (rand) / ✓✓A *Nege en veertig miljard twee honderd en veertien miljoen ses honderd een en veertig duisend (rand).*	2A amount in words (2)	F L1 E
4.1.2	Amount collected / *Bedrag ingevorder* ✓RT ✓MA = R48 781 551 000 – (R284 167 000 + R2 077 000) = R48 495 307 000 / R48 495 307 thousand ✓CA **OR / *OF*** Amount collected / *Bedrag ingevorder* ✓RT = R48 105 553 000 + R389 754 000 ✓MA = R48 495 307 000 ✓CA	1RT table value 1MA adding and subtracting 1CA simplification **OR/*OF*** 1RT table value 1MA adding R389 754 000 1CA simplification (3)	F L2 E
4.1.3	Number of claims / *Aantal eise* ✓RT $= \frac{\text{R}43\ 284\ 001\ 000}{\text{R}261\ 721}$ ✓MA = 165 382,2238 ✓CA = 165 382 ✓R	1RT table value 1MA dividing correct value 1CA simplification 1R correct rounding (4)	F L3 E
4.1.4	Salary / *Salaris* ✓✓O **OR / *OF*** Transport / *Vervoer* ✓✓O	2O correct expenditure (2)	F L4 E

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
4.2.1	Range / *Omvang* ✓RT = 2 056 – 256 ✓MA = 1 800 ✓CA	 1RT 2 056 AND 256 1MA concept of range 1CA simplification (3)	D L2 E
4.2.2	She was on leave / *Sy was met verlof.* ✓✓O **OR / *OF*** Centres were closed / *Sentrums was gesluit.* ✓✓O	 2O reason (2)	D L4 D
4.2.3	Amount claimed in cents / *Bedrag geëis in sent* ✓RT = 2 590 km × 164,3c ✓MA = 425 537 c ✓A Amount claimed in rand / *Bedrag geëis in rand* $= \frac{425\ 537c}{100}$ = R4 255,37 ✓CA The claim is NOT VALID / *Die bewering is NIE GELDIG NIE.* ✓O **OR / *OF*** Amount claimed in rand / *Bedrag geëis in rand* $= \frac{164,3}{100} \times 2\ 590$ ✓RT ✓A = R1,643 × 2 590 ✓MA = R4 255,37 ✓CA The claim is NOT VALID / *Die bewering is NIE GELDIG NIE.* ✓O	 1RT 2 590 km 1MA multiplying 1A amount in cents 1CA simplification 1O conclusion (if converted to rand) **OR / *OF*** 1RT 2 590 1A R1,643 1MA multiplying by 2 590 1CA simplification 1O conclusion (if converted to rand) (5)	F L4 M

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
4.3.1	Monthly amount / *Maandelikse bedrag* ✓RT = R728 + (R246 × 2) ✓MA = R728 + R492 = R1 220 ✓CA Annual amount / *Jaarlikse bedrag* = R1 220 × 12 = R14 640 ✓CA **OR / *OF*** Monthly amount / *Maandelikse bedrag* ✓RT = (R364 × 2) + (R246 × 2) ✓MA = R728 + R492 = R1 220 ✓CA Annual amount / *Jaarlikse bedrag* = R1 220 × 12 = R14 640 ✓CA	 1RT correct value (R728) 1MA multiplying by 2 1CA simplification 1CA simplification **OR / *OF*** 1RT correct value (R364) 1MA multiplying by 2 1CA simplification 1CA simplification (4)	F L3 M

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
4.3.2	Annual taxable income / *Jaarlikse belasbare inkomste* = R101 027,08 × 12 = R1 212 324,96 ✓A Annual tax payable before rebates / *Jaarlikse belasting betaalbaar voor kortings* ✓A = R251 258 + 41% of the taxable income above 857 900 = R251 258 + 41% (R1 212 324,96 – R857 900) ✓SF = R251 258 + (41% × R354 424,96) = R251 258 + R145 314,23 = R396 572,23 ✓CA Annual tax payable after rebates / *Jaarlikse belasting betaalbaar na kortings* ✓RT = R396 572,23 – R17 235 – R14 640 ✓MC = R364 697,23 ✓CA	**CA from Question 4.3.1** 1A annual taxable income 1A correct tax bracket 1SF substituting into formula 1CA simplification 1RT R17 235 1MCA subtracting MTC 1CA simplification (7)	F L3 M
		[32]	

QUESTION/*VRAAG* 5 [26 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T&L**
5.1.1	Income/*Inkomste* = R95,00 × 15 ✓MA = R1 425,00 ✓A	 1MA multiplying values 1A simplification (2)	F L2 M
5.1.2	Total income/*Totale inkomste* ✓RT ✓A = R2 000 + (R45,50 × number of hours) ✓MA	1RT fixed cost (R2 000) 1A variable cost (R45,50) in formula 1MA × number of hours (3)	F L2 M
5.1.3	**A** ✓A Graph starts at R0 for zero hours / *Die grafiek begin by R0 vir geen ure.* ✓✓O **OR / *OF*** The graph starts at 0;0 / *Die grafiek begin by 0;0.* ✓✓O **OR / *OF*** Steeper gradient / *Steiler gradiënt* ✓✓O **OR / *OF*** ✓✓O No fixed/ basic amount / *Geen vaste/ basiese bedrag*	1A correct graph 2O reason (3)	F L4 M
5.1.4	Number of hours / *Aantal ure* = 40 hours / *ure* ✓✓RT	 2RT 40 hours Accept: 39 – 41 (2)	F L2 M

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
5.2.1	50^{th} percentile / 50^{ste} *persentiel* = 40 learners/*leerders* ✓✓RT	 2RT 40 learners (2)	D L2 E
5.2.2	Quartile 1/*Kwartiel 1* IQR = Q3 – Q1 ✓RT 23 = 46 – Q1 ✓MA **Q1** = 46 – 23 ✓MC **Q1** = 23 ✓CA Rory's statement is NOT VALID / *Rory se bewering is NIE GELDIG NIE.* ✓O	 1RT value of Q3 (46) 1MA concept of IQR 1MCA changing the subject of the formula 1CA simplification 1O conclusion (5)	D L4 D
5.3.1	**Block 1 / *Blok 1*** = 200 kWh × 112 ₩ ✓MA = 22 400 ₩ ✓CA **Block 2 / *Blok 2*** = 125 kWh × 206,60 ₩ = 25 825 ₩ ✓CA **Total cost in ₩ / *Totale koste in ₩*** = 22 400 ₩ + 25 825 ₩ + 1 600 ₩ ✓MC = 49 825 ₩ ✓CA **Total cost in rand / *Totale koste in rand*** R1: ₩ 78,07 $= \frac{49\,825}{78,07} \times 1$ ✓MC = R638,21 ✓CA **OR / *OF***	 1MA multiplying by tariff 1CA cost block 1 1CA cost block 2 1MCA adding all values 1CA total cost in KRW 1MCA dividing by exchange rate 1CA simplification **OR / *OF***	F L3 D

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
5.3.1	Converting to Rand / *Herlei na Rand* **Block 1 / *Blok 1*** = 112,00 ₩ ÷ 78,07 ✓MA = R1,4346 ✓CA **Block 2 / *Blok 2*** = 206,60 ₩ ÷ 78,07 ✓MC = R2,6463 **Block 2 demand / *Blok 2 aanvraag*** = 1 600 ₩ ÷ 78,07 = R20,4944 **Block 1 / *Blok 1*** = 200 kWh × R1,43 = R286,92 ✓CA **Block 2 / *Blok 2*** = 125 kWh × R2,65 = R330,7875 ✓CA **Total cost / *Totale koste*** = R286,92 + R330,7875 + R20,4944 ✓MC = R638,20 ✓CA	1MA dividing by exchange rate 1CA simplification 1MCA dividing by tariff 1CA cost block 1 1CA cost block 2 1MCA adding all values 1CA simplification (7)	
5.3.2	✓O The demand will increase in winter, and so does the cost / *Die aanvraag sal verhoog in die winter dus die koste ook.* ✓O **OR / *OF*** ✓O People will use more in other seasons, so the higher cost will try keep people from using too much electricity / *Mense sal meer gebruik in ander seisoene so met die hoë koste sal dit voorkom dat hulle meer elektrisiteit gebruik.* ✓O **OR / *OF*** ✓O ✓O Solar energy is more readily available in summer / *Sonkrag is meer geredelik beskikbaar in die somer*. **OR / *OF***	1O increase usage / demand 1O increase in cost	F L4 M

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T&L
5.3.2	✓O ✓O In winter, households use more electricity for heaters / geysers / *In die winter gebruik huishoudings meer elektrisiteit vir verwarmers / geisers.* **OR / *OF*** ✓O ✓O Keeping lights on longer due to natural light / *Om ligte langer aan te hou as gevolg van natuurlike lig.* **OR / *OF*** ✓O ✓O In summer people use less electricity / In die somer gebruik mense minder elektrisiteit.	(2)	
		[26]	
		TOTAL/*TOTAAL*: 150	

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