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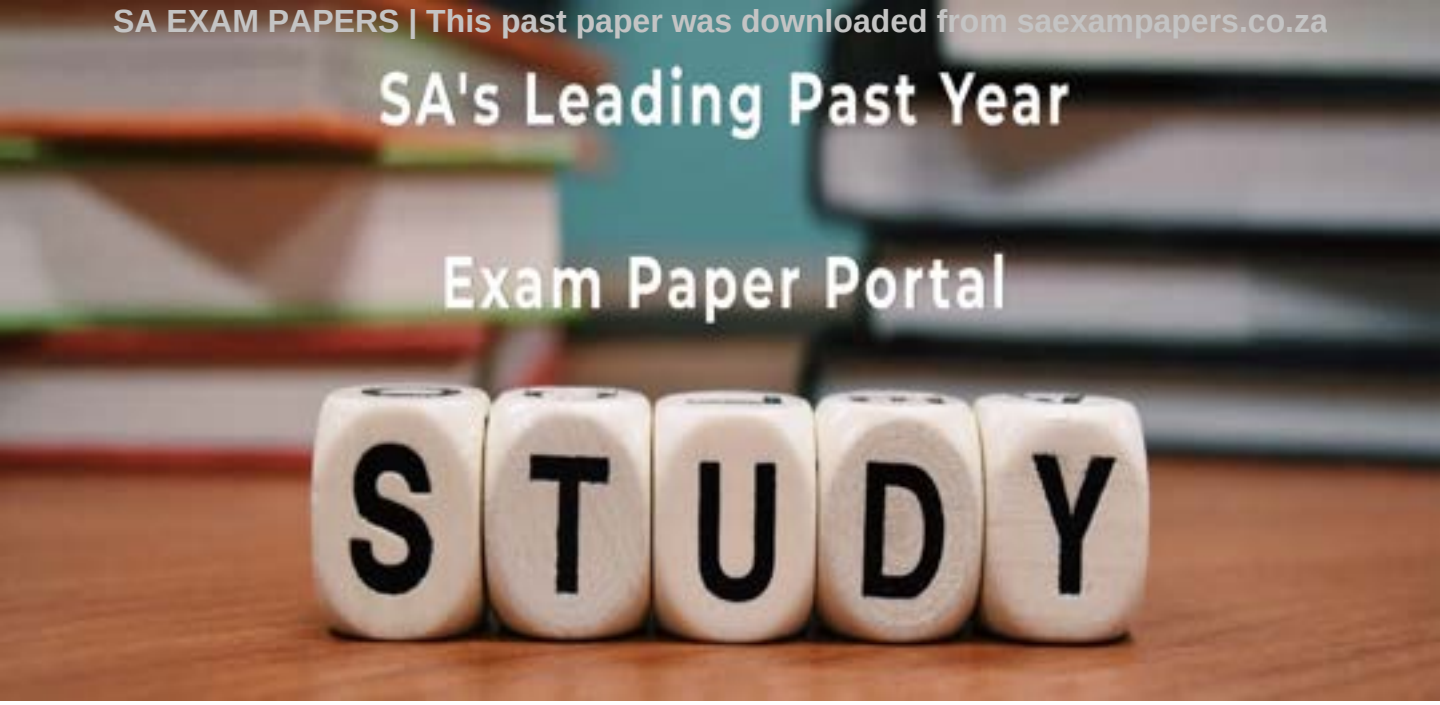

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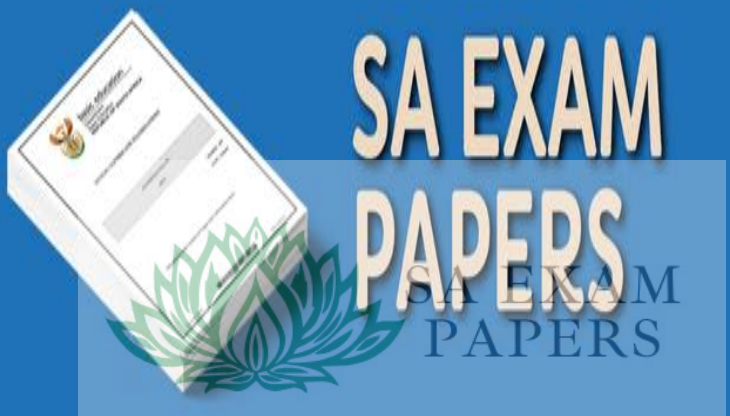

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education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE/
NASIONALE SENIOR SERTIFIKAAT

GRADE 12

MATHEMATICAL LITERACY
SEPTEMBER 2024
MEMO

MARKS/*PUNTE*: 150

Symbol/*Kode*	Explanation/*Verduideliking*
M	Method/*Metode*
MA	Method with accuracy/*Metode met akkuraatheid*
MCA	Method with consistent accuracy/*Metode met volgehoue akkuraatheid*
CA	Consistent accuracy/*Volgehoue akkuraatheid*
A	Accuracy/*Akkuraatheid*
C	Conversion/*Herleiding*
S	Simplification/*Vereenvoudiging*
RT	Reading from a table/a graph/document/ diagram/*Lees vanaf tabel/grafiek/diagram*
SF	Correct substitution in a formula/*Korrekte vervanging in formule*
O	Opinion/Explanation/Reasoning/*Opinie/Verduideliking/Redenasie*
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 correct rounding/*Geen penalisasie vir korrekte afronding nie*
AO	Answer only/*Slegs antwoord*

These marking guidelines consist of 12 pages/
Hierdie nasienriglyne bestaan uit 12 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.
- NOTE: consistent accuracy (CA) does not apply in cases of a breakdown.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalize for every extra item presented.
- As a general marking principle, if a candidate has incurred one mistake and there is evidence of sound mathematics thereafter, then that candidate should lose one mark only.
- Rounding is an independent mark.
- In opinion type questions marks will only be awarded if relevant calculations are shown.

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 op by die tweede berekeningsfout.*
- *Let wel: volgehoue akkuraatheid (CA) geld nie in die geval van 'n afbreuk nie.*
- *Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.*
- *'n Algemene nasienbeginsel is dat indien 'n kandidaat een fout maak en daarna voortgaan met korrekte wiskunde, dat die kandidaat slegs een punt verloor.*
- *Afronding tel as 'n onafhandlike punt.*
- *In Opinie tipe vrae sal punte slegs toegeken word indien relefante berekeninge getoon word.*

QUESTION/*VRAAG* 1 [30 MARKS/*PUNTE*] Answer only AO – full marks			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
1.1.1	R533✓✓RT	2RT reading from the map/*lees vanaf die kaart* (2)	M&P TL1 E
1.1.2	B3✓✓A	1A B 1A 3 (2)	M&P TL 1 E
1.1.3	Bar scale/*Staafskaal*✓✓A **OR/*OF*** Graphic scale/line scale/*Grafiese skaal/lynskaal*	2A correct answer/*korrekte antwoord* (2)	M&P TL 1 E
1.1.4	Store museum/*winkel museum*✓✓RT	2RT reading from a map/*lees vanaf die kaart* (2)	M&P TL 1 E

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Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
1.1.5	$\frac{76\,495}{1\,220\,813} \times 100\%$✓MA = 6,265906…%✓A = 6,3%✓R	1MA calculating/ *bereken %* 1A correct answer/ *korrekte antw* 1R correct rounding/ *korrekte afronding* (3)	M&P TL1 M
1.2.1	D✓✓A **OR** P = side + side + side/*sy* + *sy* + *sy*✓✓	2A correct formula/*korrekte formule* (2)	M TL 1 E
1.2.2	500 mm ÷ 1000✓C = 0,5 m✓A	1C convert to/*skakel om na* m 1A answer/*antwoord* (2)	M TL 1 E
1.2.3	25 cm × 2✓MA = 50 cm✓A	1MA multiply by/ *vermenigvuldig met* 2 1A answer/*antwoord* (2)	M TL 1 E
1.3.1	Mass = 1 200 g ÷ 3✓MA = 400 g✓A	1MA dividing/*deling* 1A answer/*antwoord* (2)	M TL 1 E
1.3.2	12,5 kg flour/*meel*✓✓RT **OR/*OF*** Mealie meal/*mieliemeel* **OR/*OF*** Macaroni	2RT answer/*antwoord* (Any one of the three option is correct/*enige een van die drie opsies korrek)* (2)	M TL 1 M
1.3.3	Mass/*gewig* = 9 000 g ÷ 4 ✓MA = 2 250 g ÷ 1 000 ✓ A = 2,25 kg ✓C **OR** 9 000 g ÷ 1 000✓C = 9 kg ÷ 4✓ = 2,25 kg✓	1MA dividing by/*deel deur* 4 1A answer/*antwoord* 1C conversion (3)	M TL1 M
1.4.1	E✓✓A	2A correct definition /*regte definisie* (2)	M&P TL 1 E

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1.4.2	A✓✓A	2A Correct definition/*regte definisie* (2)	M TL 1 E
1.4.3	B✓✓	2A Correct definition/*regte definisie* (2)	P TL 1 E
		[30]	
QUESTION/*VRAAG* 2 [31 MARKS/*PUNTE*]			
Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
2.1.1	No of seats = 17 + 30 + 27 + 24 + 23 + 20 + 19 + 16✓MA = 176 seats✓CA **OR** No of seats = 50 + 85 + 41✓ = 176✓	1MA adding all values/*tel al die getalle bymekaar* 1CA answer/*antwoord* **AO** (2)	M&P TL1 E
2.1.2	Wheelchair seats/*Rolstoelsitplekke* = 8✓A Non wheelchair seats/*gewone sitplekke* = 176 – 8 = 168✓CA 8 : 168✓MCA 1 : 21✓CA	**CA no of seats from/*aantal sitplekke van* 2.1.1** 1A number of wheelchair seats/ *aantal rolstoelsitplekke* 1CA number of non-wheelchair seats/ *gewone sitplekke* 1MCA correct order/ *regte volgorde* 1CA simplification/ *vereenvoudig* (4)	M&P TL 2 M
2.1.3	North East **OR** NE ✓✓A	2A correct compass direction/ *regte kompasrigting* (2)	M&P TL 2 E
2.1.4	✓✓ F14	1 A F 1A 14 (2)	M&P TL 2 E

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2.1.5	Mrs Brook will get up from her seat and turn towards the west/left ✓A/*Mev Brooks sal opstaan en wes/links draai* She will walk till the passage, turn North/right/*sy sal afloop in die paadjie en dan Noord/regs draai* ✓*A* and walk straight forward to the stage/ *loop reguit vorentoe tot by die verhoog*✓A **OR/*OF*** Walk towards the east/right, walk till passage then turn north towards the stage/*loop oos in die rigting van die gangetjies draai Noord en loop tot by die verhoog.*	1A turn left/east/*draai links/oos* 1A turn right/north/*draai regs/noord* 1A passageway to the stage/ *gangetjie tot by verhoog* (3)	M&P TL 2 E
2.1.6	62,5% × 176 = 110✓MA P = $\frac{1}{110}$ ✓✓A **OR** 0,0091✓✓ **OR** 0,91%✓✓	**CA number of seats from 2.1.1** 1MA calculating/ *bereken* % of/ *van* 176 1A numerator/*teller* 1CA Denominator/*noemer* **NPR** (3)	P TL2 M
2.2.1	Floor plan is the aerial /top/bird's eye view of a structure/ *vloerplan is die tekening van die uitleg van 'n gebou vanuit 'n voël-oog-uitsig/bo-aansig*✓✓A	2A correct definition/*regte definisie* (2)	M&P L1 E
2.2.2	13 doors/*deure*✓✓A (1 garage door/*motorhuisdeur*, 1 sliding door/ *skuifdeur* and/*en* 11 normal doors/*gewone deure*)	2A correct number of doors/*korrekte aantal deure* (2)	M&P TL 2 E
2.2.3	A ✓✓A **OR/*OF*** The porch is on the west elevation/*die stoep is op die westelike aansig.*	2A correct option/*korrekte opsie* (2)	M&P TL 1 E

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2.2.4	Actual length/*werklike* = 40 mm × 200✓MA = 8 000 mm✓C = 800 cm✓C Actual width / *werklike* = 32 mm × 200 = 6 400 mm = 640 cm✓A Floor area/*vloeroppervlakte* = 800 cm × 640 cm✓SF = 512 000 cm^2✓CA Minimum area of the window/*minimum opp v venster* = 512 000 cm^2 × 12,5% = 64 000 cm^2✓CA Area of the window/*opp v venster* = height/*h* × width/*b* 64 000 cm^2 = 256 cm × width/*b* Width/*breedte* = 64 000 cm^2 ÷ 256 cm✓MCA = 250 cm✓CA	1MA using scale/*gebruik skaal* 1C conversion/*omskakeling* 1A length/*lengte* 1A width/*breedte* 1SF substitution/*vervang in formule* 1CA area of the room/*oppervlakte van kamer* 1CA area of the window/*oppervlakte van venster* 1MCA finding the width/*bereken die breedte* 1CA simplification/*vereenvoudig* (9)	M&P TL 3 D
		[31]	

QUESTION/*VRAAG* 3 [39 MARKS/*PUNTE*]

Q/*V*	Solution/*Oplossing*	Explanation/*Verduideliking*	T/L
3.1.1	Perimeter/*omtrek* = (3,9 + 5,5 + 3 + 5,5 + 2,5) m✓MA = 20,4✓CA m✓A	1MA adding all correct values/ *korrekte waardes* 1CA simplification/ *vereenvoudig* 1A correct unit/ *korrekte eenheid* (3)	M TL 2 M

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3.1.2	Radius = 91,44 cm ÷ 2✓M = 45,72 cm✓A **LSA = 2 × 3,142 × r × h** = 2 × 3,142 × 45,72 m × 30,48 m✓SF = 8 757,04055 cm^2✓CA	1MA dividing by/*deel deur* 2 1A simplification/ *vereenvoudig* 1SF substitution into correct formula/*vervang in korrekte formule* 1CA simplification/ *vereenvoudig* **NPR** (4)	M TL 2 M
3.1.3	Area of a circle /*Oppervlakte van sirkel* = 3,142 × $(45,72)^2$✓SF = 6 567,780413 cm^2✓CA = 6 567,780413 ÷ 10 000/100^2 = 0,6567780413 m^2✓C Area of a rectangle /*Oppervlakte van 'n reghoek* = 5,5 m × 3 m✓SF = 16,5 m^2✓A Area of a triangle /*Oppervlakte van 'n driehoek* = $\frac{1}{2}$ × 2,5 m × 3 m✓SF = 3,75 m^2✓A Shaded area/*geskakeerde oppervlakte* = 16,5 + 3,75 – 0,6567780413✓MCA = 19,59 …. m^2✓CA ≈ 20 m^2	**CA radius from/*van* 3.1.2** 1SF substitution/*vervang* 1CA simplification/*vereenvoudig* 1C conversion/*omskakeling* 1SF substitution/*vervang* 1A simplification/*vereenvoudig* 1SF substitution/*vervang* 1A simplification/*vereenvoudig* 1MCA adding and subtracting/ *optel en aftrek* 1CA simplification/*vereenvoudig* (9)	M TL 3 D
3.2.1	Area of a brick = 0,215 m × 0,1025 m✓SF = 0,0220375 m^2✓A No of bricks = $\frac{20}{0,0220375}$✓MCA = 907,5439592✓CA = 908✓R	1SF substitution/*vervang* 1A simplification/*vereenvoudig* 1MCA dividing/*deling* 1CA simplification/ *vervang* 1R rounded answer/*afgeronde antwoord* (5)	M TL 3 D

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3.2.2	Mass in tons = 3,276 kg × 908 ✓MCA = 2 974,608 kg✓S = 2 974,608 × 0,001✓C = 2,974608 ton✓CA **OR/*OF*** Mass = $\frac{2\,974{,}608}{1\,000}$ =2,974608 ton	**CA no of bricks from 3.2.1** 1MCA multiplying/ *vermenigvuldig* 1S simplification/*vereenvoudig* 1C conversion/*omskakel* 1CA answer/*antwoord* **NPR** (4)	M TL 2 M
3.3.1	1 × 60 = 2 × **A**✓MA **A** = 60 ÷ 2 = 30✓A **B** = $\frac{60}{15}$ = 4✓A	1MA multiplying/ *vermenigvuldig* 1A value of/*waarde vir* A 1A value of/*waarde vir* B **AO** (3)	M TL 1 E
3.3.2	Inverse proportion/*omgekeerde verhouding*✓✓A **OR/*OF*** Indirect proportion/*indirekte eweredigheid*✓✓	2A correct answer/ *korrekte antwoord* (2)	M TL 1 E
3.4.1	60 ÷ 0,3937✓MA = 152,4003048 cm✓C ÷ 100 = 1,52 m✓C **OR/*OF*** 60 ÷ 0,3937 ÷ 100 = 1,52 m	1MA dividing/*deling* 1C conversion to cm/*skakel om in cm* 1R rounding/*afronding* (3)	M TL2 M
3.4.2	Nick's BMI = $\frac{56\text{ kg}}{(1{,}65\text{ m})^2}$✓SF = 20,57 kg/m^2✓A Nicolene's BMI = $\frac{45\ kg}{(1{,}52\ m)^2}$ = 19,48 kg/m^2✓CA Difference = 20,57 – 19,48✓MCA = 1,09 kg/m^2✓CA Ruth's statement is NOT correct✓O	**CA height from 3.4.1** 1SF substitution/*vervang in formule* 1A simplification/*vereenvoudig* 1CA simplification/*vereenvoudig* 1MCA subtraction/*aftrekking* 1CA simplification/*vereenvoudig* 1O opinion/*opinie* (6)	M TL 4 M
		[39]	

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QUESTION/*VRAAG* 4 [22 MARKS/*PUNTE*]			
4.1.1	Diameter /*deursnee* = 2,5 × 2,54 ✓MA= 6,35 cm✓C r = $\frac{6,35}{2}$ = 3,175 cm✓A **Volume of tin/can/*van blikkie*** = $\mathbf{3,142 \times r^2 \times h}$ = (3,142) × (3,175)^2✓SF × (12,065)✓SF = 382,138651 cm^3✓CA = 382 cm^3	1MA multiplying/ *vermenigvuldig* 1C converted answer/*omgeskakelde antwoord* 1A radius 1SF substitution radius^2/*vervanging radius*^{2} 1SF substitution into formula/*vervanging in formula* 1CA simplification/ *vereenvoudiging* (6)	M TL 2 M
4.1.2	95% of volume 382 cm^3 = 382 mℓ✓C = $\frac{95}{100}$ × 382 mℓ ✓M = 362,9 mℓ ✓CA = 363 mℓ ✓R	1C conversion/*omskakeling* 1MA multiplying/*vermenigvuldig* 1CA simplification 1R rounded answer. (4)	M TL 2 E
4.2	Length of the table/*tafel se lengte* = 1,75 m 50% of the length/*50% van lengte* = 1,75 m ÷ 2 =0,875 m✓A If the scale of 1 : 10 is used/*Skaal 1:10 word gebruik*✓M Length of model/*lengte van model* = 4,8 m ÷ 10 × 1 = 0,48✓CA 0,48 will fit on the actual table/*0,48 sal op die werklike tafel pas*✓O The scale of 1 : 10 will be suitable/*die skaal 1:10 sal geskik wees.*✓O	1A calculating 50% of table size/ *bereken 50% van die tafel se grootte* 1M using scale/*gebruik skaal* 1CA calculating model length/ *bereken die lengte van die model* 1O opinion/*opinie* 1O opinion/*opinie* (5)	M&P TL4 D
4.3.1	Bus 1: Leave/*Vertrek van* Horison View: 6:02 Arrive at/*arriveer in* Rosebank: 7:17 Travel time/*Reistyd* = 7:17 – 6:02✓RT✓MCA = 1:15 Take 1 hour 15 minutes/*Sal 1 uur 15 minute reis.*✓CA	1RT correct times/*korrekte tye* 1MCA subtract/*aftrekking* 1CA answer/*antwoord* (3) **AO**	M TL 2 E

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4.3.2	Arrive at 7:17 then walks 15 minutes, start to work after 10 minutes of rest/*Arriveer 7:17, stap vir 15 minute en begin werk na 10 minute se rus.* 7:17 + 10 min + 15 min✓MA = 7:42 will work for 9hrs 45 min/*werk vir 9 uur 45 min* = 7:42 + 9:45✓MCA = 17:27✓A No will not knock off at 17:00/*Nee hy sal nie klaar wees teen 17:00 nie*✓O	1MA add times to get starting time/ *tel tyd om regte begin tyd te bereken* 1MCA add 9hr45min hours/*tel 9ur 45min ure by* 1CA correct end time/*regte eindtyd* 1O opinion/*opinie* (4)	M TL 4 M
		[22]	

QUESTION/*VRAAG* 5 [28 MARKS/*PUNTE*]

Q/*V*	**Solution/*Oplossing***	**Explanation/*Verduideliking***	**T/L**
5.1.1	SCALE /*SKAAL* 25 mm : 100 km Distance measured/*afstande gemeet* = 108 mm ✓C Actual distance/*werklike afstand* = 108 x $\frac{100}{25}$ km✓CA = 432 km✓CA **OR/*OF*** 2,5 cm : 100 km 10,8 cm : *x* km✓C 10,8 × $\frac{100}{2,5}$ km✓CA = 432 km ✓CA **OR/*OF*** 25 mm : 100 km 25 mm : 100 000 000 mm 1 : 4 000 000✓A Actual distance = 10,8 cm × 4 000 000✓MCA = 43 200 000 cm = 432 km✓CA	1C conversion/*omskakeling* 1CA multiply with 100 and divide with 25/*vermenigvuldig met 100 en deel met 25* 1CA answer/*antwoord* **OR/*OF*** 1C conversion/*omskakeling* 1CA multiply with 100 and divide with 2,5/*vermenigvuldig met 100 en deel met 2,5* 1CA antwoord/*answer* OR/*OF* 1A number scale/*nommerskaal* 1MCA multiplying/ *vermenigvuldiging* 1CA answer/*antwoord* (3)	M&P TL 3 M

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5.1.2	T = $\frac{432\ km}{120\ km/h}$✓SF = 3,6 hours✓A = 3 hour 36 minutes✓CA 8 + 3 hours /*ure* 36 minutes/*minute*✓M = 11:36✓C Yes, she will arrive before 12:00/midday *Ja, sy arriveer voor 12:00* ✓O	**CA distance from/*afstand van* 5.1.1** 1SF substitute into formula/*vervang in formule* 1A answer/*antwoord* 1C hours and minutes/*ure en minute* 1MCA adding time /*tel tyd bymekaar* 1CA answer/*antwoord* 1O opinion/*opinie* (6)	M&P TL 4 M
5.2.1	90 % OR 0,9 of roses/*van die rose* = 12 + 15 90% of the total number of roses = 27 *90% van die totale aantal rose* = 27✓M Total roses/*totaal rose* = $\frac{27}{0,9}$✓MA = 30 roses/*rose*✓CA **OR/*OF*** 27 roses/*rose* : 90% *x* roses/*rose* : 100% 27 × $\frac{100}{90}$ roses = 30 roses/*rose*	1A Total of pink and red roses/ *aantal pienk en rooi rose* 1MA divide total by/*deel totaal deur* 90% 1CA answer/*antwoord* (3)	P TL 3 M
5.2.2	Different colors/*Verskillende kleure*: 30 – 27 = 3✓CA P = $\frac{3}{30}$ ✓CA = 0,1✓CA The statement is correct/*Haar stelling is reg*✓O	**CA no of roses with/*getal rose met* 5.2.1** 1CA different coloured roses/*verskillende kleur rose* 1CA fraction/*breuk* 1CA simplification/*vereenvoudig* 1O opinion/*opinie* (4)	P TL 4 E
5.3.1	°F − 32° = $\frac{9}{5}$ × °C 275° – 32° = $\frac{9}{5}$ × °C✓SF 243°✓A × $\frac{5}{9}$ = °C✓MCA 135 °C✓CA	1SF substitution/*vervanging* 1A answer/*antwoord* 1MCA changing the subject/*verander onderwerp* 1CA simplification/*vereenvoudig* (4)	M TL 2 M

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5.3.2 (a)	Length of the box/*lengte van kartonhouer* = 6 × (7,5 cm + 0,8 cm)✓MA = 6 × 8,3 cm = 49,8 cm✓CA Width of the box = 3 × (7,5 cm + 0,8 cm) = 3 × 8,3 = 24,9 cm✓CA Height of the box = 2 × (8 cm)✓A+ 0,8) = 2 × 8,8 = 17,6 cm✓CA The dimensions of the box are: 49,8 cm ×24,9 cm× 17,6 cm	1MA multiplying number of jars by diameter and space/*vermenigvldig aantal bottels met deursnee en spasie* 1CA length/*lengte* 1CA width/*breedte* 1A identifying the height of the bottle/*identifiseer hoogte van die bottel* 1CA height/*hoogte* (5)	M&P TL 3 D
5.3.2 (b)	Volume of the box/*van karton houer* = 49,8 cm × 24,9 cm × 17,6 cm✓SF = 21 824,352 cm^3✓CA = 0,021824352 m^3✓C **OR/*OF*** Volume of the box/*volume van karton houer* = 0,498 m × 0,249 m × 0,176 m = 0,021824352 m^3	**CA dimensions from/*afmetings van* 5.3.2(a)** 1SF substitution/*vervanging* 1CA simplification/*vereenvoudig* 1C conversion/*omskakeling* **OR/*OF*** 1C conversion/*omskakeling* 1SF substitution/*vervanging* 1CA simplification/ *vereenvoudiging* **NPR** (3)	M TL2 M
		[28]	
		TOTAL/*TOTAAL*: 150	

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