education

Department of Education
FREE STATE PROVINCE

# PREPARATORY EXAMINATION
# *VOORBEREIDENDE EKSAMEN*

## GRADE/*GRAAD* 12

# MATHEMATICAL LITERACY P2
# *WISKUNDIGE GELETTERDHEID V2*

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## SEPTEMBER 2025

## MARKS/*PUNTE*: 150

# MARKING GUIDELINES/*NASIENRIGLYNE*

| Symbol/*Kode* | Explanation/*Verduideliking* |
|---|---|
| **M** | Method/*Metode* |
| **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/a graph/document/diagram/*Lees vanaf tabel/'n 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 correct rounding/*Geen penalisasie vir korrek afronding nie* |
| **AO** | Answer only/*Slegs antwoord* |
| **MCA** | Method with constant accuracy/*Metode met volgehoue akkuraatheid* |
| **NPU** | No penalty for unit/*Geen penalisasie vir eenheid nie* |

**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.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.
- General principle of marking: If the candidate makes one mistake, he/she loses one mark.

***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 nasienriglyne toegepas, dit hou op by die tweede berekeningsfout.*
- *Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.*
- *Die algemene beginsel van merk: as 'n leerder een fut maak verloor hy/sy een punt.*

| **QUESTION/*VRAAG* 1 [28 MARKS/*PUNTE*]** | | **ANSWER ONLY FULL MARKS** | |
|---|---|---|---|
| **Q/*V*** | **Solution/*Oplossing*** | **Explanation/*Verduideliking*** | **T&L** |
| 1.1.1 | C ✓✓A<br>A plan that shows the length and width of an object.✓✓ | 2A explanation<br>(2) | MP<br>L1<br>E |
| 1.1.2 | H ✓✓A<br>The maximum amount that a container can hold✓✓ | 2A explanation<br>(2) | M<br>L1<br>E |
| 1.1.3 | G ✓✓A<br>The base unit of mass in the metric system is equal to 1 000 grams. ✓✓ | 2A explanation<br>(2) | M<br>L1<br>E |
| 1.1.4 | D ✓✓A<br>The amount of matter or material in an object. ✓✓ | 2A explanation<br>(2) | M<br>L1<br>E |
| 1.1.5 | E ✓✓A<br>The length of the space between two places or points. ✓✓ | 2A explanation<br>(2) | M<br>L1<br>E |

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| Q/*V* | Solution/*Oplossing* | Explanation/*Verduideliking* | T&L |
|---|---|---|---|
| 1.2.1 | The area of the room is 22 $m^2$. ✓✓A<br>*Die oppervlak van die kamer is 22 $m^2$* | 2A explanation<br>(2) | M<br>L1<br>M |
| 1.2.2 | 0% **OR/*OF*** zero percent ✓✓A | 2A correct probability<br>**NPU**<br>(2) | P<br>L1<br>E |
| 1.2.3 | Floor plan/*Vloerplan* ✓✓A<br>**OR/*OF***<br>Layout plan/*Uitlegplan* ✓✓A | 2A correct answer<br>(2) | MP<br>L1<br>E |
| 1.2.4 | 325 ✓✓A | 2A correct room number<br>(2) | MP<br>L1<br>E |
| 1.2.5 | The one has a double bed and the other one has two single beds./*Die een het 'n dubbelbed en die ander twee enkelbeddens.* ✓✓A<br>**OR/*OF***<br>First room can accomodate one person, the second room can accomodate two people./*Eerste kamer kan een persoon akkomodeer. Die tweede kamer kan twee persone akkomodeer.* ✓✓A<br>**OR/*OF***<br>The one has one study table, and the other one has two./*Die een het een studietafel en die ander een het twee.* ✓✓A<br>**OR/*OF***<br>The one has one chair and the other one has two chairs./*Die een het een stoel en die ander een het twee.* ✓✓A<br>**OR/*OF***<br>The one has one sidelamp and the other one has two sidelamps./*Die een het een lampie en die ander een het twee.* ✓✓A | 2A correct difference<br>(2) | MP<br>L1<br>E |

| **Q/*V*** | **Solution/*Oplossing*** | **Explanation/*Verduideliking*** | **T&L** |
|---|---|---|---|
| 1.3.1 | 2 × 1 000 ✓MA<br><br>= 2 000 m ✓A | 1MA multiplied by 1000<br><br>1A correct answer<br>**NPU**<br>(2) | M<br>L1<br>E |
| 1.3.2 | True/*Waar* ✓✓A | 2A correct answer<br>(2) | MP<br>L1<br>E |
| 1.3.3 | 19:49 ✓✓A | 2A correct time format<br>(2) | M<br>L1<br>M |
| 1.3.4 | 24 – 7 ✓MA<br><br>= 17 min ✓A | 1MA subtracting correct values<br>1A correct answer<br>**NPU**<br>(2) | M<br>L1<br>E |
| | | **[28]** | |



| **QUESTION/*VRAAG* 2 [25 MARKS/*PUNTE*]** | | | |
|---|---|---|---|
| **Q/*V*** | **Solution/*Oplossing*** | **Explanation/*Verduideliking*** | **T&L** |
| 2.1.1 | 2 ✓✓A | 2A correct answer (2) | MP L1 E |
| 2.1.2 | Nelspruit ✓✓A | 2A correct town (2) | MP L2 E |
| 2.1.3 | ✓RT<br>28 km + 18 km + 3,5 km ✓MA<br><br>= 49,5 km ✓CA | 1RT correct values<br>1MA adding values<br>1CA no of kilometres<br>**NPU** (3) | MP L2 D |
| 2.1.4 | Machadodorp✓✓A | 2A name of the toll plaza (2) | MP L1 E |
| 2.1.5 | ✓A ✓A<br>R539 and/*en* R36 | 1A 1st road<br>1A 2nd road (2) | MP L1 M |
| 2.2.1 | 3 or three/*of drie* ✓✓A | 2A number of windows (2) | MP L1 M |
| 2.2.2 | False/*On*waar ✓✓A | 2A correct answer (2) | MP L4 M |
| 2.2.3 | Measured length/*gemete lengte*<br>= 125 mm✓A<br><br>125 mm = 11,5 m ✓MCA<br>✓C<br>0,125 : 11,5<br><br>1: 92 ✓CA | 1A measured value (accept 120 mm to 125 mm)<br>1MCA correct order of the ratio<br><br>1C conversion<br><br>1CA unit ratio (4) | MP L2 D |
| 2.2.4 | There is no wall between the kitchen and the living/lounge/dining/sitting room/*Daar is geen muur tussen die kombuis en die sitkamer/eetkamer nie.* ✓✓A | 2A opinion (2) | MP L4 M |
| 2.2.5 (a) | An elevation plan shows the side view of the outside of the building./*'n Aansigplan toon die sy-aansig van 'n gebou.*✓✓A | 2A explanation (2) | MP L1 M |
| 2.2.5 (b) | South Elevation/*Suidaansig* ✓✓A | 2A correct elevation (2) | MP L2 M |
| | | **[25]** | |

Accept: R53

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| **QUESTION/*VRAAG* 3 [26 MARKS/*PUNTE*]** | | | |
|---|---|---|---|
| **Q/*V*** | **Solution/*Oplossing*** | **Explanation *Verduideliking*** | **T&L** |
| 3.1.1 | Thermometer/*Termometer* ✓✓A<br>Accept: Thermostat | 2A correct instrument<br>(2) | M<br>L1<br>M |
| 3.1.2 | 440 mm – (4 mm × 2) ✓MA<br>= 432 mm ✓CA | 1MA subtracting double thickness<br>1CA simplification<br>**AO**<br>(2) | M<br>L2<br>M |
| 3.1.3 | Diameter/*Middellyn*: 432 mm = 0,432 m ✓C<br>Height/*Hoogte*: 1325 mm – 4 mm<br>= 1321 mm✓A<br>= 1,321 m<br>Radius = $\frac{0,432}{2}$ = 0,216 ✓CA<br>Volume = 3,142 × (radius)$^2$ × height/*hoogte*<br>= 3,142 × (0,216 m)$^2$ × 1,321 m ✓SF ✓CA<br>= 0,19364 m$^3$ × 1000 ✓C<br>= 193,659 ℓ<br>Then/*Dan*: 98% × 193,659 ℓ ✓MCA<br>= 189,78 ℓ ✓CA<br>His claim is not correct./*Sy stelling is nie korrek nie.*✓O<br>**OR/*OF***<br>185 ℓ = $\frac{185}{1000}$ m$^3$<br>= 0,185 m$^3$ ✓<br>Radius = $\frac{0,432}{2}$ = 0,216 ✓CA | **CA from 3.1.2**<br>1C conversion (mm to m)<br>1A height<br>1CA radius<br>1SF substitution into the formula<br>1CA answer<br>1C conversion (m$^3$ to ℓ)<br>1MCA calculating percentage<br>1CA number of litres<br>1O opinion<br>1C conversion (ℓ to m$^3$)<br>1CA radius | M<br>L4<br>D |

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| | | | |
|---|---|---|---|
| | Volume = 3,142 × (radius)$^2$ × height/*hoogte*<br><br>0,185 m$^3$ = 3,142 × (0,216)$^2$ × h ✓SF<br>$h = \frac{0{,}185\ m^3}{0{,}146593152\ m^2}$ ✓MA<br>h = 1,262 m ✓CA<br><br>The given height of the geyser is<br>Height/*Hoogte*: 1325 mm – 4 mm<br>= 1321 mm<br>= 1,321 m ✓A<br><br>so: $\frac{98}{100}$ × 1,321 m ✓MCA<br>= 1,294 ✓CA<br><br>The statement is not correct. ✓O | 1SF substitute into formula<br>1MA changing the subject of the formula<br>1CA simplification<br><br>1A determine height<br><br>1MCA calculating 98% of the height<br>1CA simplify height<br>1O correct opinion<br>(9) | |
| 3.1.4 | °F – 32° = (1,8 × °C)<br>140° F – 32 = (1,8 × °C) ✓SF<br>108 = 1,8 × °C<br>$°C = \frac{108}{1{,}8}$ ✓MA<br>= 60° C ✓CA | 1SF correct substitution<br>1MA changing the subject of the formula<br>1CA simplification<br>(3) | M<br>L2<br>M |
| 3.2.1 | ✓✓A<br>The total length around the rib cage of the cat./*Die totale lengte rondom van die kat se ribbekas.* | 2A explanation<br>(2) | M<br>L1<br>E |
| 3.2.2 | BMI/*LMI*✓✓A | 2A correct answer<br>(2) | M<br>L1<br>E |
| 3.2.3 | BMI/*LMI* = $\frac{35{,}2\ cm}{0{,}6466} - \frac{5{,}1\ cm}{0{,}9156}$ – 5,1 cm ✓SF<br>= 54,43 – 5,57 – 5,1 ✓S<br>= 43,77 ✓CA<br><br>Obese/*vetsugtig* ✓O | 1SF substitution<br>1S simplification<br>1CA answer<br>1O opinion<br>**NPR**<br>(4) | M<br>L2<br>D |

| Q/*V* | Solution/*Oplossing* | Explanation/*Verduideliking* | T&L |
|---|---|---|---|
| 3.2.4 | Reduce the amount of food./*Verminder die hoeveelheid kos.* ✓✓O<br><br>**OR/*OF***<br><br>Give low-calorie/healthy food./*Gee lae kaloriekos/gesonde kos.*<br><br>**OR/*OF***<br><br>Cut back on treats./*Verminder lekkernye.*<br><br>**OR/*OF***<br><br>Take the cat for walks/*Gaan stap met die kat.*<br><br>(2) | 2O opinion | M<br>L4<br>E |
| | | **[26]** | |



| **QUESTION/*VRAAG* 4 [38 MARKS/*PUNTE*]** | | | |
|---|---|---|---|
| **Q/*V*** | **Solution/*Oplossing*** | **Explanation/*Verduideliking*** | **T&L** |
| 4.1.1 | Perimeter = 2 × (length + width)/<br>*Omtrek = 2 × (lengte + breedte)*<br><br>= 2 × (1,525 m + 2,74 m)✓SF<br><br>= 8,53 m✓CA✓A | <br><br><br>1SF correct substitution<br><br>1CA correct answer<br>1A unit<br>**NPR**<br>**AO**<br>(3) | M<br>L2<br>E |
| 4.1.2 | ✓MA<br>Length/*Lengte* = 0,153 m × 2 + 1,525 m<br>✓MA<br><br>= 0,306 m + 1,525 m<br><br>= 1,831 m ✓CA | <br>1MA multiplied by 2<br>1MA adding<br><br>1CA correct answer<br>**NPU**<br>**NPR**<br>**AO**<br>(3) | M<br>L2<br>M |
| 4.1.3 | ✓RT<br>0,76 : 0,153 ✓A<br><br>1 : 0,201✓CA | <br>1RT correct values<br>1A order<br>1CA answer<br>**NPR**<br>**AO**<br>(3) | M<br>L2<br>M |
| 4.1.4 | 0,76 m = 760 mm ✓C<br><br>760 mm – 100 mm ✓MA<br><br>= 660 mm<br><br>= 0,7 m **or/*of*** 0,66 m **or/*of*** 0,67 m✓A<br><br>**OR/*OF***<br><br>100 mm = 0,1 m ✓C<br><br>0,76 m – 0,1 m<br><br>= 0,66 m<br><br>= 0,7 m **or/*of*** 0,66 m **or/*of*** 0,67 m✓A | <br>1C conversion<br><br>1MA subtraction<br><br><br>A correct answer<br><br><br><br>1C conversion<br><br>1MA subtraction<br><br><br>A correct answer<br>**NPU** **NPR**<br>(3) | L2<br>M<br>E |

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| **Q/*V*** | **Solution/*Oplossing*** | **Explanation** ***Verduideliking*** | **T&L** |
|---|---|---|---|
| 4.1.5 (a) | Boys/*Seuns* = 12✓A<br><br>Girls/*Meisies* = 09✓A<br><br>12 – 09 = 03 ✓CA<br><br>more players were boys/*meer spelers was seuns* | 1A number of boys<br><br>1A number of girls<br><br>1CA answer<br><br>**AO**<br><br>(3) | P<br>L2<br>E |
| 4.1.5 (b) | ✓A<br>$\frac{2}{21}$ = 0,095238095✓CA<br>✓A | **CA Total from 4.1.5(a)**<br>1A numerator<br>1A denominator<br>1CA answer as decimal number<br>**NPR**<br>(3) | P<br>L2<br>M |



| Q/*V* | Solution/*Oplossing* | Explanation<br>*Verduideliking* | T&L |
|---|---|---|---|
| 4.2.1 | Container/*Houer* 1<br><br>Volume = length × width × height<br>*Volume = lengte × breedte × hoogte*<br><br>= 3,5 in × 2 in × 9,5 in ✓SF<br><br>= 66,5 in$^3$ ✓CA<br><br>Container/*Houer* 2<br><br>Volume = $\pi$ × radius$^2$ × height/*hoogte*<br><br>= 3,142 × (5 ÷ 2)$^2$ × 9,5 ✓SF<br>✓A<br>= 3,142 × 2,5$^2$ × 9,5<br><br>= 186,56 in$^3$✓CA<br><br>Container 2/Cylinder/*Houer 2/Silinder* ✓O | <br><br><br><br>1SF correct substitution<br><br>1CA correct answer<br><br><br><br>1SF substitution<br>1A radius<br><br><br>1CA answer<br><br><br>1O opinion<br>**NPU**<br>**NPR**<br>(6) | M<br>L4<br>M |
| 4.2.2 | SA = 2 × $\pi$ × radius × height + $\pi$ × radius$^2$<br>*BO = 2 × $\pi$ × radius × hoogte + $\pi$ × radius$^2$*<br><br>= 2 × 3,142 × 2,5 × 9,5 + 3,142 × (2,5)$^2$ ✓SF<br><br>= 149,245 + 19,6375 ✓S<br><br>= 168,8825 in$^2$ ✓CA | <br><br><br>1SF substitution<br><br>1S simplification<br><br>1CA answer<br>**NPU**<br>**NPR**<br>(3) | L3<br>M<br>M |

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| Q/*V* | Solution/*Oplossing* | Explanation *Verduideliking* | T&L |
|---|---|---|---|
| 4.2.3 (a) | 1 inch/*dm* = 25,4 mm<br>? = 40 mm<br>$= \frac{40\text{ mm}}{25{,}4\text{ mm}}$ ✓MA<br>= 1,57 in/*dm* ✓CA | 1MA dividing<br>1CA correct answer<br>**NPU**<br>**AO**<br>(2) | M<br>L2<br>M |
| 4.2.3 (b) | **CONTAINER 1/*HOUER 1***<br>Height/*Hoogte* $\frac{9{,}5}{1{,}57}$ ✓MA = 6,050955 ✓CA<br>= 6 ✓R<br>Width/*breedte*: $\frac{2}{1{,}57} = 1{,}27$<br>= 1<br>Length/*lengte*: $\frac{3{,}5}{1{,}57} = 2{,}22$<br>= 2 ✓CA<br>No. that can be packed/*Aantal wat gepak kan word:*<br>✓MCA<br>6 × 1 × 2 = = 12 balls/*balle* ✓CA<br>**CONTAINER 2/*HOUER 2***<br>Height/*Hoogte*: $\frac{9{,}5}{1{,}57} = 6$<br>Diameter/*Middellyn*: $\frac{5}{1{,}57} = 3$✓CA<br>No that can be packed/*Aantal wat gepak kan word:*<br>6 × 3 = 18 balls/*balle* ✓CA<br>Statement NOT VALID/*Stelling is NIE WAAR NIE* ✓O | **CA from 4.2.3(a)**<br>1MA dividing<br>1CA answer<br>1R rounding down<br>1CA correct answer<br>1MCA multiplying<br>1CA no of balls<br>1CA answer<br>1CA no of balls<br>1O conclusion<br>(9) | L4<br>MP<br>D |
| | | **[38]** | |

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| **QUESTION/*VRAAG* 5 [33 MARKS/*PUNTE*]** | | | |
|---|---|---|---|
| **Q/*V*** | **Solution/*Oplossing*** | **Explanation *Verduideliking*** | **T & L** |
| 5.1.1 | Lesotho ✓✓A | 2A name of the country (2) | MP L1 E |
| 5.1.2 | ✓RT<br>30 355 × 14,1 % ✓MA<br><br>= 4 280,055 km$^2$<br><br>= 4 280 km$^2$ ✓R | 1RT total area<br><br>1MA multiplying by %<br><br>1R correctly rounded area<br><br>**NPU**<br>**AO** (3) | MP L2 E |
| 5.1.3 | Bar Scale ✓A<br>✓A<br>When the map enlarges/reduces the scale also enlarges/reduces.<br><br>*Grafiese skaal*<br><br>*Wanneer die kaart vergroot/verklein sal die skaal ook vergroot/verklein.* | 1A name of the scale<br><br>1A advantage (2) | MP L2 M |
| 5.1.4 | Two million one hundred and twenty five thousand two hundred and sixty eight./*Twee miljoen een honderd en vyf en twintig duisend twee honderd agt en sestig*. ✓✓A | 2A correct answer (2) | MP L1 E |
| 5.1.5 | South East/SE/*Suidoos/SO* ✓✓A | 2A direction (2) | MP L2 M |
| 5.1.6 (a) | Before noon/*Voormiddag* ✓✓A<br>Accept: Time in the morning | 2A correct answer (2) | M L2 E |
| 5.1.6 (b) | Driving time/*Rytyd* = 8 hrs and 19 min<br>✓MA<br>09:00 + 8 hrs and 19 min<br><br>= 17:19 ✓CA<br><br>Breaks/*Stoppe* = 65 min + 45 min + 49 min | 1MA adding duration to correct beginning time<br><br>1CA correct final time | M L3 M |

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| | | | |
|---|---|---|---|
| | = 159 min ✓CA<br>$\frac{159}{60}$ = 2,65<br>= 2 hrs/*uur* and/*en* 39 min ✓C<br>Arrival time/*Aankomstyd*:<br>= 17:19 + 2 hrs and 39 min✓MCA<br>= 19:58 ✓CA<br>**OR/*OF***<br>Total time/*totale tyd*<br>✓M<br>= 8 hrs 19 min + 65 min + 45 min + 49 min<br>= 8 hrs 178 min ✓CA<br>178 min = 2 hrs 58 min ✓C<br>∴ Total time = 10 hrs 58 min ✓CA<br>09:00 + 10 hrs 58 min ✓MCA<br>= 19:58 ✓CA<br>**OR/*OF***<br>✓M ✓M<br>9:00 + 8:19 + 0:65 + 0:45 + 0:49<br>= 17:178 min ✓CA<br>✓C<br>178 min = 2 hrs 58 min<br>17:00 + 2 hrs 58 min ✓MCA<br>= 19:58 ✓CA | 1CA total time for breaks<br>1C conversion<br>1MCA adding<br>1CA arrival time<br>1M adding time<br>1CA answer<br>1C conversion<br>1CA total time<br>1MCA adding to correct beginning time<br>1CA arrival time<br>1M adding to correct beginning time<br>1M adding time<br>1CA answer<br>1C conversion<br>1MCA adding<br>1CA total time<br>(6) | |

| Q/*V* | Solution/*Oplossing* | Explanation<br>*Verduideliking* | T & L |
|---|---|---|---|
| 5.2 | Inland cost/*binnelandse koste*<br>= 80 litres × R22,86<br>= R1 828,80 ✓CA<br>Coastal cost/*Kuskoste*<br>= 80 litres × R22,07<br>= R1 765,60 | 1CA calculating amounts (R1 828,80 and R1 765,60) | F<br>L4<br>M |
| | ✓MCA<br>% diff/*verskil* = $\frac{\text{R1 828,80} - \text{R1 765,60}}{\text{R1 828,80}} \times 100\%$<br>✓MCA<br>= 3,46 % ✓CA<br>NOT VALID/*NIE GELDIG NIE* ✓O | 1MCA numerator<br>1MCA denominator<br>1CA correct %<br>1O conclusion | |
| | **OR/*OF***<br>✓A<br>% diff/*verskil* = $\frac{\text{R22,86} - \text{R22,07}}{\text{R22,86}} \times 100\%$ ✓MA<br>✓A<br>= 3,46 % ✓CA<br>NOT VALID/*NIE GELDIG NIE* ✓O | 1A numerator<br>1A denominator<br>1MA multiplied by 100%<br>1CA correct %<br>1O conclusion | |
| | **OR/*OF***<br>✓A<br>$\frac{1\,765,60}{1828,80} \times 100\%$ ✓MA<br>✓A<br>= 96,54<br>100% - 96,54<br>= 3,46%✓CA<br>NOT VALID/*NIE GELDIG NIE* ✓O | 1A numerator<br>1A denominator<br>1MA multiplied by 100%<br>1CA correct %<br>1O conclusion | |
| | **OR/*OF***<br>✓A | 1A numerator<br>1A denominator<br>1MA multiply by 100% | |

| | | | |
|---|---|---|---|
| | $\frac{22,07}{22,86} \times 100\%$ ✓MA<br>✓A<br><br>= 96,54%<br><br>100% - 96,54<br><br>= 3,46%✓CA<br><br>NOT VALID/*NIE GELDIG NIE* ✓O | 1CA correct %<br><br>1O conclusion<br><br>(5) | |
| 5.3.1 | Driving time/*Reistyd* = 2hr 20 min – 15 min<br><br>= 2 hr 05 min ✓A<br>$2 \text{ hr} + \frac{05}{60}$<br><br>= 2,083333.....✓C<br><br>121 km = speed × 2,083333…..✓SF<br><br>Speed/*Spoed* = $\frac{121 \text{ km}}{2,0833333...}$ ✓MA<br><br>= 58,08 km/h ✓CA | 1A driving time<br><br>1C conversion<br><br>1SF substitution<br><br>1MA changing the subject<br><br>1CA average speed<br>**NPR**<br>(5) | M<br>L3<br>M |

| Q/*V* | Solution/*Oplossing* | Explanation *Verduideliking* | T&L |
|---|---|---|---|
| 5.3.2 | R23 887,50 = 97,5%<br>? = 100%<br><br>Original amount/*Oorspronklike bedrag*<br><br>✓MA<br>= R23 887,50 × $\frac{100}{97,5}$ ✓A ✓A<br><br>= R24 500 ✓CA<br><br>**OR/*OF***<br><br>100% – 2,5% = 97,5%<br><br>= 0,975 ✓MA<br><br>Original amount/*Oorspronklike bedrag*<br><br>= $\frac{\text{R23 887,50}}{0,975}$ ✓A ✓A<br><br>= R24 500,00 ✓CA<br><br>**OR/*OF***<br><br>1 – 0,025 = 0,975 ✓MA<br><br>Original amount/*Oorspronklike bedrag*<br><br>= $\frac{\text{R23 887,50}}{0,975}$ ✓A ✓A<br><br>= R24 500,00 ✓CA | 1MA multiply with correct amount<br>1A numerator<br>1A denominator<br><br>1CA amount<br><br><br>1MA correct %<br><br>1A numerator<br>1A denominator<br><br>1CA amount<br><br><br>1MA difference<br><br>1A numerator<br>1A denominator<br><br>1CA amount<br>(4) | F<br>L2<br>D |
| | | **[33]** | |

**TOTAL/*TOTAAL*: 150**

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