



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## NATIONAL SENIOR CERTIFICATE NASIONALE SENIOR SERTIFIKAAT

**GRADE/GRAAD 12**

**MATHEMATICAL LITERACY P1  
WISKUNDIGE GELETTERDHEID VI**

**NOVEMBER 2018**

**MARKING GUIDELINES/NASIENRIGLYNE**

**MARKS/PUNTE: 150**

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

**This marking guideline consists of 20 pages.  
Hierdie nasienriglyne bestaan uit 20 bladsye.**

|                                |                                             |             |
|--------------------------------|---------------------------------------------|-------------|
| APPROVED ON<br>4 November 2018 | <b>External Moderators (Question Paper)</b> |             |
|                                | M.M. Tshabalala                             | E.D. Cronje |
|                                | L.R. de Waal                                |             |
|                                | <b>Internal Moderator</b>                   |             |


**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.

**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 verkeerde item.

| <b>QUESTION/VRAAG 1 [32 MARKS/PUNTE] ANSWER ONLY FULL MARKS</b> |                                                                                                                                                                   |                                                                                                                                                                            |                |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Q/V</b>                                                      | <b>Solution/Oplossing</b>                                                                                                                                         | <b>Explanation/Verduideliking</b>                                                                                                                                          | <b>T&amp;L</b> |
| 1.1.1                                                           | 1 / one / een ✓✓A<br><br><b>OR/OF</b><br><br>A day / 'n dag ✓✓A<br><br><b>OR/OF</b><br><br>One day / Een dag ✓✓A                                                  | 2A for correct day<br><br>(2)                                                                                                                                              | M<br>L1        |
| 1.1.2                                                           | Price before saving / Prys voor besparing<br>$R70 + R250$ ✓M<br>$= R320$ ✓A                                                                                       | 1M adding correct values<br>1A simplification<br><br>(2)                                                                                                                   | F<br>L1        |
| 1.1.3                                                           | Ariel ✓✓A                                                                                                                                                         | 2A product<br><br>(2)                                                                                                                                                      | F<br>L1        |
| 1.1.4                                                           | $750 \text{ m } \ell \div 1\,000$ ✓MA<br>$= 0,75 \text{ } \ell$ ✓A<br><br><b>OR/OF</b><br><br>$750 \text{ m } \ell \times 0,001$ ✓MA<br>$= 0,75 \text{ } \ell$ ✓A | 1MA for dividing by 1 000<br>1A simplification only if division<br><br><b>OR/OF</b><br><br>1MA for multiplying by 0,001<br>1A simplification only if multiplied<br><br>(2) | M<br>L1        |
| 1.1.5                                                           | Price / Prys<br>$= R11 \times 3$ ✓MA<br>$= R33,00$ ✓CA                                                                                                            | 1MA multiplying correct values<br>1CA simplification<br>(only if $R7,70 \times 3$ )<br><br>(2)                                                                             | F<br>L1        |

| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Explanation/Verduideliking                                                                              | T&L      |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|
| 1.1.6 | R11; R15; R18; R22; R30; R43; R44; R45; R65;<br>R250 ✓✓A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2A arranging in correct order<br><br>If names used max 1 mark<br><br>(2)                                | D<br>L1  |
| 1.2.1 | English = 35 letters <b>OR</b> 15 letters ✓✓A<br><br>Afrikaans = 37 letters <b>OF</b> 17 letters ✓✓A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2A correct number<br><br>WC, FS, NC Provinces<br>accept both<br><br>(2)                                 | M<br>L1  |
| 1.2.2 | 44 °C ✓✓A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2A correct reading<br><br>Accept 44 - 45 °C<br><br>(2)                                                  | M<br>L1  |
| 1.2.3 | One unit on the drawing represents twenty five units<br>in reality / <i>Een eenheid op die tekening<br/>verteenvoordig vyf en twintig eenhede in werklikheid.</i><br><br> ✓✓A<br><br><b>OR/OF</b><br><br>Scale in this context means that the drawing of the<br>T-shirt is 25 times smaller than in reality /<br><i>Skaal in hierdie konteks beteken dat die tekening van<br/>die T-hemp 25 keer kleiner is as in werklikheid.</i> ✓✓A<br><br><b>OR/OF</b><br><br>On the picture the shirt is 25 times smaller /<br><i>Op die foto is die hemp 25 keer kleiner</i> ✓✓A | 2A correct definition<br><br>Accept no units<br><br>(2)                                                 | MP<br>L1 |
| 1.2.4 | ± 61 mm ✓✓A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2A correct measurement<br>(Accept 59 mm – 64 mm)<br><br>Correct answer in cm =<br>max 1 mark<br><br>(2) | M<br>L1  |

| Q/V   | Solution/Oplissing                                                                        | Explanation/Verduideliking                                                                                                                                                                    | T&L         |
|-------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1.3.1 | Two Oceans Marathon / <i>Twee Oseane-marathon</i><br>✓✓RT                                 | 2RT reading from table<br><br>Accept:<br>Race on 15 April 2017<br>Race of 56 km<br>Race with an entry fee of R520,00<br><br>(2)                                                               | M<br>L1     |
| 1.3.2 | Comrades Marathon / <i>Comrades-marathon</i> ✓✓RT                                         | 2RT reading from table<br><br>Accept:<br>Race on 4 June 2017<br>Race of 89 km<br>Race with an entry fee of R460,00<br><br>(2)                                                                 | M<br>L1     |
| 1.3.3 | R520,00 – R460,00 ✓RT<br>= R60,00 ✓A                                                      | 1RT correct values from the table<br>1A answer<br><br>(2)                                                                                                                                     | F<br>L1     |
| 1.4.1 | 12 Hours / <i>12 Ure</i> ✓✓A<br><br><b>OR/OF</b><br><br>Half a day / <i>Halwe dag</i> ✓✓A | 2A correct time<br><br>Accept:<br>12:00 <b>OR/OF</b><br>12 o'clock<br>Max 1 mark<br><br>(2)                                                                                                   | M<br>L1     |
| 1.4.2 | Discrete / <i>Diskreet</i> ✓✓A                                                            | 2A discrete<br><br>(2)                                                                                                                                                                        | D<br>L1     |
| 1.4.3 | ✓RT<br>17 031 : 13 852 ✓A                                                                 | 1RT correct values from table<br>1A correct values in correct order<br><br>Accept answer as unit ratios:<br>1 : 0,813<br>1,229 : 1<br>Accept answer in fraction form<br><b>NPR</b><br><br>(2) | D<br>L1     |
|       |                                                                                           |                                                                                                                                                                                               | <b>[32]</b> |




| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Explanation/Verduideliking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T&L     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2.1.4 | $\checkmark$ RT<br>APG 2039W Design & Theory Studio II $\checkmark$ RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1RT code<br>1RT name<br>If APG omitted = full marks<br>(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | F<br>L1 |
| 2.1.5 | $\checkmark$ RT<br>$R14\ 967,70 - R8\ 650,00$ $\checkmark$ M<br>$= R6\ 317,70$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1RT correct values<br>1M subtracting deposit<br>(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F<br>L1 |
| 2.1.6 | Total amount / <i>Totale bedrag</i> $\checkmark$ RT $\checkmark$ M<br>$= R3\ 030 + R3\ 030 + R2\ 280 + R2\ 280 + R9\ 580 +$<br>$R4\ 530 + R29\ 460 + R2\ 087 + R395,95 +$<br>$R395,95$<br>$= R57\ 068,90$ $\checkmark$ CA<br><br><b>OR/OF</b><br>Total amount / <i>Totale bedrag</i><br>$\checkmark$ M $\checkmark$ RT<br>$= R62\ 594 - R6\ 317,70 + 2 \times R395,95$<br>$= R57\ 068,90$ $\checkmark$ CA<br><br><b>OR/OF</b> <br>Total amount / <i>Totale bedrag</i><br>$\checkmark$ RT $\checkmark$ M<br>$R40\ 386 + R23\ 000 + R8\ 650 - R14\ 819,50 -$<br>$R148,50 = R57\ 068,90$ $\checkmark$ CA<br><br><b>OR/OF</b><br>Total amount / <i>Totale bedrag</i><br>$\checkmark$ RT $\checkmark$ M<br>$R3\ 030 + R3\ 030 + R2\ 280 + R2\ 280 + R9\ 580 +$<br>$R4\ 530 + R29\ 460 + R395,95 + R395,95$<br>$= R54\ 981,90$ $\checkmark$ CA<br><br><b>OR/OF</b><br>Total amount / <i>Totale bedrag</i><br>$\checkmark$ M $\checkmark$ RT<br>$= R62\ 594 - R6\ 317,70 + 2 \times R395,95 - R2\ 087$<br>$= R54\ 981,90$ $\checkmark$ CA<br><br><b>OR/OF</b> | <b>AO</b><br>1RT reading all correct values<br>1M adding values<br>1CA simplification<br><br><b>OR/OF</b><br>1RT reading all correct values<br>1M subtracting values<br>1CA simplification<br><br><b>OR/OF</b><br>1RT reading all correct values<br>1M subtracting values<br>1CA simplification<br><br><b>OR/OF</b><br>1RT reading all correct values<br>1M adding values<br>1CA simplification<br><br><b>OR/OF</b><br>1RT reading all correct values<br>1M subtracting values<br>1CA simplification<br><br><b>OR/OF</b> | F<br>L1 |


| Q/V | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Explanation/Verduideliking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | T&L |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|     | <p>Total amount / <i>Totale bedrag</i></p> <p style="text-align: center;">✓RT                                  ✓M</p> $R40\ 386 + R23\ 000 + R8\ 650 - R148\ 19,50 -$ $R148,50 - R2\ 087 = R54\ 981,90 \quad \checkmark CA$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>1RT reading all correct values<br/>1M subtracting values<br/>1CA simplification</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |
|     | <p><b>AFRIKAANS VRAESTEL:</b></p> <p style="text-align: center;">✓RT                                  ✓M</p> $R148,20 + R3030 + R3030 + R2280 + R2280 +$ $R9580 + R4530 + R29460 + R2087 + R395,95 +$ $R395,95 = R57\ 217,10 \quad \checkmark CA$ <p style="text-align: center;"><b>OR/OF</b></p> <p style="text-align: center;">✓RT                                  ✓M</p> $R40\ 386 + R23\ 000 + R8\ 650 - R148\ 19,50$ $= R57\ 217,10 \quad \checkmark CA$ <p style="text-align: center;"><b>OR/OF</b></p> <p style="text-align: center;">✓M                                          ✓RT</p> $R62\ 594,70 - R63\ 17,70 + 2 \times R395,95 +$ $R148,20$ $= R57\ 217,10 \quad \checkmark CA$ <p style="text-align: center;"><b>OR/OF</b></p> <p style="text-align: center;">✓RT                                  ✓M</p> $R148,20 + R3030 + R3030 + R2280 + R2280 +$ $R9580 + R4530 + R29460 + R395,95 + R395,95$ $= R55\ 130,10 \quad \checkmark CA$ <p style="text-align: center;"><b>OR/OF</b></p> <p style="text-align: center;">✓RT                                  ✓M</p> $R40\ 386 + R23\ 000 + R8\ 650 - R148\ 19,50 -$ $R2\ 087$ $= R55\ 130,10 \quad \checkmark CA$ <p style="text-align: center;"><b>OR/OF</b></p> <p style="text-align: center;">✓M                                          ✓RT</p> $R62\ 594,70 - R63\ 17,70 + 2 \times R395,95 +$ $R148,20 - R2\ 087$ $= R55\ 130,10 \quad \checkmark CA$ | <p>1RT reading all correct values<br/>1M adding values<br/>1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT reading all correct values<br/>1M subtracting values<br/>1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT reading all correct values<br/>1M subtracting values<br/>1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT reading all correct values<br/>1M subtracting values<br/>1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT reading all correct values<br/>1M subtracting values<br/>1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT reading all correct values<br/>1M adding values<br/>1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT reading all correct values<br/>1M subtracting values<br/>1CA simplification</p> <p style="text-align: right;">(3)</p> |     |

| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Explanation/Verduideliking                                                                                                                                                                                           | T&L     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2.1.7 | Direct deposit / <i>Direkte deposito</i> ✓✓RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2RT reading correctly<br><br>Accept deposit only<br><br>(2)                                                                                                                                                          | F<br>L1 |
| 2.1.8 | <p>Monthly instalment / <i>Maandelikse paaiement</i><br/> <math>R40\ 386,60 \div 5</math> ✓A<br/> ✓M<br/> = R8 077,32</p> <p><b>OR/OF</b></p> <p>Monthly instalment / <i>Maandelikse paaiement</i><br/> <math>R8\ 077,32 \times 5</math> ✓A<br/> ✓M<br/> = R40 386,60</p> <p><b>OR/OF</b></p> <p>Monthly instalment / <i>Maandelikse paaiement</i><br/> <math>\frac{R40\ 386,60}{5}</math> ✓M<br/> R8077,32<br/> = 5 ✓A</p>                                                                                                                                                                                                                                                                                                                                                                                                     | <p>1A calculating 5<br/>1M dividing by 5</p> <p><b>OR/OF</b></p> <p>1A calculating 5<br/>1M multiply by 5</p> <p><b>OR/OF</b></p> <p>1M dividing correct values in correct order<br/>1A calculating 5</p> <p>(2)</p> | F<br>L1 |
| 2.2.1 | <p>✓A<br/>Inflation is a measure of rate at which the cost of goods is changing over a period of time and is usually expressed as a percentage / ✓A<br/> <i>Inflasie is die meting van die koers waarteen die prys van goedere verander oor 'n tydperk en word gewoonlik uitgedruk in persentasie.</i></p> <p><b>OR/OF</b></p> <p>✓A<br/>The percentage increase of the food prices over the period 1970 – 2015 / ✓A<br/> <i>Die persentasietoename van kospryse oor die tydperk 1970 – 2015.</i></p> <p><b>OR/OF</b></p> <p>✓A ✓A<br/>Percentage increase of price over a period of time /<br/> <i>Persentasie verhoging van prys oor 'n tydperk.</i></p> <p><b>OR/OF</b></p> <p>✓A ✓A<br/>Inflation is the rising price of goods/items over time /<br/> <i>Inflasie is die stygende prys van goedere/dienste oor tyd.</i></p> | <p>1A percentage increase<br/>1A time</p> <p>(2)</p>                                                                                                                                                                 | F<br>L1 |



| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Explanation/Verduideliking                                                                                                                                                                                                          | T&L                                                    |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 2.2.2 | R0,30 <b>OR/OF</b> 30c ✓✓RT                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2RT correct value<br><br><div style="border: 1px solid black; padding: 5px; width: fit-content;">                     Accept 0,30<br/><br/>                     If the candidates only wrote 30 = max 1 mark                 </div> | F<br>L1<br><br>(2)                                     |
| 2.2.3 | $\begin{aligned} & \checkmark M \\ R557,00 - R418,00 & \checkmark RG \\ = R139,00 & \checkmark CA \end{aligned}$                                                                                                                                                                                                                                                                                                                                                                     | <b>AO</b><br>1RG correct amount<br>1M subtracting<br>1CA simplification (one of the 2 values must be correct)                                                                                                                       | F<br>L1<br><br>(3)                                     |
| 2.2.4 | Percentage change / <i>Presentasieverandering</i><br>$\frac{\checkmark RT}{R0,25} \times \frac{100}{1} \% \checkmark SF$<br>= 29 900 % ✓CA<br><br><p style="text-align: center;"><b>OR/OF</b>  <b>OR/OF</b></p> Percentage change / <i>Presentasieverandering</i><br>$\frac{\checkmark RT}{0,25} \times 100\% = 30\ 000\% \checkmark M$<br>Therefore % increase = 30 000% - 100%<br>= 29 900% ✓CA | <b>AO</b><br><br>1RT all correct values<br>1SF substitute correct values<br>1CA correct percentage<br><br><br><br><br>1RT all correct values<br>1M subtracting<br>1CA correct percentage                                            | F<br>L2<br><br><br><br><br><br><br><br><br><br><br>(3) |

| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Explanation/Verduideliking                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T&L     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2.2.5 | <p>Cost price / <i>Kosprys</i><br/> <math>\frac{100}{117,5} \times \frac{104,90}{1} \checkmark\text{MA}</math><br/> <math>= \text{R}89,28 \checkmark\text{A}</math></p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Cost price / <i>Kosprys</i><br/> <math>\frac{104,90}{117,5\%} \checkmark\text{MA}</math><br/> <math>= \text{R}89,28 \checkmark\text{A}</math></p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Cost price / <i>Kosprys</i><br/> <math>\frac{104,90}{1,175} \checkmark\text{MA}</math><br/> <math>= \text{R}89,28 \checkmark\text{A}</math></p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Cost price / <i>Kosprys</i><br/> <math>\frac{17,5}{117,5} \times \text{R}104,90 = \text{R}15,62</math><br/> <math>\text{R}104,90 - \text{R}15,62 \checkmark\text{MA}</math><br/> <math>= \text{R}89,28 \checkmark\text{A}</math></p> | <p><b>AO</b></p> <p>1MA multiplying correct values</p> <p>1A answer</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1MA dividing correct values<br/>in the correct order</p> <p>1A answer</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1MA dividing correct values<br/>in the correct order</p> <p>1A answer</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1MA multiplying and subtracting<br/>correct values</p> <p>1A answer</p> <p style="text-align: right;">(2)</p> | F<br>L2 |
| 2.3.1 | <p><math>\checkmark\checkmark\text{A}</math><br/> <b>B OR/OF</b> R241 600 000 000 <math>\checkmark\checkmark\text{A}</math></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>2A correct value</p> <p style="text-align: right;">(2)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      | F<br>L1 |

| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Explanation/Verduideliking                                                                                                                                                                                                                                                                                                      | T&L             |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 2.3.2 | <p>Budget is the proposed way in which money will be spent on different items /<br/> <i>Begroting is die voorgestelde manier hoe die geld vir verskillende items gespandeer behoort te word.</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>A plan on how money is going to be spent on estimated income /<br/> <i>'n Plan oor hoe geld op beraamde inkomste bestee gaan word.</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>A plan in how money is going to be spent /<br/> <i>'n Plan hoe geld uitgegee / spandeer gaan word.</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Financial plan how to spend money/finance /<br/> <i>Finansiële plan hoe om geld / finansiering te spandeer.</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b> </p> <p>Estimated income and expenditure of money /<br/> <i>Geskatte inkomste en uitgawes van geld.</i> ✓✓A</p> | <p>2A definition</p> <p style="text-align: right;">(2)</p>                                                                                                                                                                                                                                                                      | <p>F<br/>L1</p> |
| 2.3.3 | <p>Skills development levy institutions /<br/> <i>Vaardigheidsontwikkelingheffingsinstellings</i> ✓✓RT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>2RT correct sector</p> <p style="text-align: right;">(2)</p>                                                                                                                                                                                                                                                                 | <p>F<br/>L1</p> |
| 2.3.4 | <p>Percentage of the total education budget /<br/> <i>Persentasie van die totale onderwysbegroting</i><br/>                     ✓RG/RT<br/> <math display="block">\frac{15,3}{320,5} \times 100\% \checkmark M</math> <math display="block">= 4,77\% \checkmark CA</math> <p style="text-align: center;"><b>OR/OF</b></p> <p>Percentage of the total education budget /<br/> <i>Persentasie van die totale onderwysbegroting</i><br/>                     ✓RG/RT<br/> <math display="block">\frac{R15\ 300\ 000\ 000}{R320\ 500\ 000\ 000} \times \frac{100}{1} \% \checkmark M</math> <math display="block">= 4,77\% \checkmark CA</math> </p> </p>                                                                                                                                                                                                                                                                                                                                                   | <p>1RG/RT correct values<br/>                     1M multiply by 100<br/>                     1CA answer</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RG/RT correct values<br/>                     1M multiply by 100<br/>                     1CA answer<br/> <b>NPR</b></p> <p style="text-align: right;">(3)</p> | <p>F<br/>L2</p> |

| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Explanation/Verduideliking                                                                                                                                                         | T&L         |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 2.3.5 | <p>Education Administration plus NSFAS amount to 31,1 billion rand /<br/><i>Onderwysadministrasie plus NSFAS bedrag tot 31,1 miljard rand</i></p> <p>9,7% ✓✓A<br/>Accept any estimation from 9,5% but less than 9,86%<br/><i>Aanvaar enige skatting vanaf 9,5% maar minder as 9,86%</i></p> <p style="text-align: center;"><b>OR/OF</b></p> <p><math>15,8 + 15,3 = 31,1</math> billion / <i>miljard</i> ✓M<br/><math>= 9,7\%</math> ✓A<br/>Accept any estimation from 9,5% but less than 9,86%<br/><i>Aanvaar enige skatting vanaf 9,5% maar minder as 9,86%</i></p> | <p><b>AO</b></p> <p>2A correct estimation</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1M adding values<br/>1A estimated value</p> <p style="text-align: right;">(2)</p> | F<br>L2     |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                    | <b>[41]</b> |



| <b>QUESTION/VRAAG 3 [18 MARKS/PUNTE]</b> |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                   |                |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Q/V</b>                               | <b>Solution/Oplissing</b>                                                                                                                                                                                                                                                                                                                                                                                   | <b>Explanation/Verduideliking</b>                                                                                                                                                                                                                                                                 | <b>T&amp;L</b> |
| 3.1.1                                    | $15\text{ cm} + 17\text{ cm} + 19\text{ cm} + 21\text{ cm} \checkmark\text{A}$<br>$= 72\text{ cm} \times 10 \checkmark\text{CA}$<br>$= 720\text{ mm} \checkmark\text{CA}$                                                                                                                                                                                                                                   | 1A adding of correct values<br>1CA conversion<br>1CA answer in mm<br><br>(3)                                                                                                                                                                                                                      | M<br>L1        |
| 3.1.2a                                   | Diameter / <i>Deursnee</i> = $2 \times \text{radius}$<br>$= 2 \times 14\text{ cm} \checkmark\text{M}$<br>$= 28\text{ cm} \checkmark\text{A}$                                                                                                                                                                                                                                                                | <b>AO</b><br><br>1M multiplying by 2<br>1A diameter<br><br>(2)                                                                                                                                                                                                                                    | M<br>L1        |
| 3.1.2b                                   | Volume of a cylinder = $\pi \times r^2 \times \text{height}$<br><i>Volume van 'n silinder = <math>\pi \times r^2 \times \text{hoogte}</math></i><br><br>Volume of a cylinder = $3,142 \times (14)^2 \times 15\text{ cm} \checkmark\text{SF}$<br>$= 3,142 \times 196\text{ cm}^2 \times 15\text{ cm} \checkmark\text{S}$<br>$= 9\,237,48\text{ cm}^3 \checkmark\text{CA}$                                    | <b>AO</b><br><br>1SF substitution<br>1S squaring 14<br>1CA simplification<br><br>(3)                                                                                                                                                                                                              | M<br>L2        |
| 3.1.3                                    | The perimeter of a shape is the total distance around the edges defining the outline of that shape $\checkmark\checkmark\text{A}$<br><i>Die omtrek van 'n vorm is die totale afstand om die sye wat die uitleg van die vorm definieer.</i><br><br><p style="text-align: center;"><b>OR/OF</b></p> Total distance around the shape / <i>Totale afstand rondom 'n voorwerp</i> $\checkmark\checkmark\text{A}$ | 2A explanation<br><br>(2)                                                                                                                                                                                                                                                                         | M<br>L1        |
| 3.1.4                                    | Area of a rectangle = length $\times$ width<br><i>Area van 'n reghoek = lengte <math>\times</math> breedte</i><br>$= 15\text{ cm} \times 12\text{ cm} \checkmark\text{SF}$<br>$= 180\text{ cm}^2 \checkmark\text{CA}$                                                                                                                                                                                       | 1SF correct substitution<br>1CA simplification<br><br><div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math>35\text{ cm} \times 33\text{ cm} = 1\,155\text{ cm}^2</math><br/>                         Max 1 mark                     </div> (2)       | M<br>L2        |
| 3.2.1                                    | Amount / <i>Hoeveelheid</i> in kg = $3,5 \div 2,25 \checkmark\text{C}$<br>$= 1,556 \checkmark\text{A}$                                                                                                                                                                                                                                                                                                      | 1C conversion<br>1A simplification<br><br><div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">                         Accept 1,56 kg ;<br/>                         1,6 kg<br/>                         1,5 only = 0 marks                     </div> (2) | M<br>L2        |

| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                       | Explanation/Verduideliking                           | T&L     |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------|
| 3.2.2 | $1 \text{ ml flour} = 0,7 \text{ g flour} / 1 \text{ ml meel} = 0,7 \text{ g meel}$<br>$\frac{625}{1} \times 0,7 \text{ g} \quad \checkmark \text{C}$<br>$= 437,5 \text{ g} \quad \checkmark \text{A}$                                                   | 1C conversion<br>1A simplification<br>(2)            | M<br>L2 |
| 3.2.3 | $^{\circ}\text{C} = (^{\circ}\text{F} - 32^{\circ}) \div 1,8$<br>$^{\circ}\text{C} = (356^{\circ} - 32^{\circ}) \div 1,8 \quad \checkmark \text{SF}$<br>$^{\circ}\text{C} = (324^{\circ}) \div 1,8$<br>$= 180^{\circ}\text{C} \quad \checkmark \text{A}$ | 1SF correct substitution<br>1A simplification<br>(2) | M<br>L2 |
|       |                                                                                                                                                                                                                                                          | [18]                                                 |         |



| <b>QUESTION/VRAAG 4 [24 MARKS/PUNTE]</b> |                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                       |                |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Q/V</b>                               | <b>Solution/Oplissing</b>                                                                                                                                                                                                                                                                                             | <b>Explanation/Verduideliking</b>                                                                                                                                                                                                                                     | <b>T&amp;L</b> |
| 4.1.1                                    | South West <b>OR</b> SW<br><i>Suidwes OF SW</i> ✓✓A                                                                                                                                                                                                                                                                   | 2A direction<br>(2)                                                                                                                                                                                                                                                   | MPL<br>2       |
| 4.1.2                                    | Namaqua National Park /<br><i>Namakwa Nasionale Park</i> ✓✓RM                                                                                                                                                                                                                                                         | 2RM national Park<br>(2)                                                                                                                                                                                                                                              | MPL<br>1       |
| 4.1.3                                    | ✓✓RM ✓RM<br>Keimoes, Kakamas, Pofadder<br>(Any 2 of the 3/enige 2 van die 3)                                                                                                                                                                                                                                          | 2RM first correct town<br>1RM second correct town<br>(3)                                                                                                                                                                                                              | MPL<br>1       |
| 4.1.4                                    | Ratio scale <b>OR</b> number scale <b>OR</b> numerical scale<br><i>Verhoudingskaal OF nommerskaal OF getalskaal</i> ✓✓A                                                                                                                                                                                               | 2A ratio / number / numerical<br><div style="border: 1px solid black; padding: 2px; display: inline-block;">Accept unit ratio</div><br>(2)                                                                                                                            | MP<br>L1       |
| 4.1.5                                    | ✓A<br>Measured distance / <i>Gemete afstand</i> = 135 mm<br>1 : 3 007 874<br>135 mm × 3 007 874 ✓M<br>= 406 062 990 mm<br>$= \frac{406\ 062\ 990}{1\ 000\ 000}$ ✓C<br>= 406 km ✓R<br><br><b>OR/OF</b><br><br>✓A<br>13,5 cm × 3 007 874 ✓M<br>$\frac{40606299\text{cm}}{100\ 000}$ ✓C<br>= 406,06299 km<br>≈ 406 km ✓R | 1A measures distance<br><br>1M using scale<br><br>1C conversion<br>1R to the nearest km<br>(Range: 130 mm to 140 mm)<br><br><b>OR/OF</b><br><br>1A measures distance<br>1M using scale<br>1C conversion<br><br>1R to the nearest km<br>(Range: 13 cm to 14 cm)<br>(4) | MPL<br>3       |
| 4.2.1                                    | Voortrekker Road / <i>Voortrekkerstraat</i> ✓✓RM<br><br><b>OR/OF</b><br><br>N14 ✓✓RM                                                                                                                                                                                                                                  | 2RM correct road<br>(2)                                                                                                                                                                                                                                               | MPL<br>1       |

| Q/V   | Solution/Oplissing                                                                                                                     | Explanation/Verduideliking                                                                                                 | T&L      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------|
| 4.2.2 | Rivier Street / <i>Rivierstraat</i> ✓✓RM                                                                                               | 2RM correct road<br>(2)                                                                                                    | MP<br>L2 |
| 4.2.3 | Debs-Lodge / <i>Debs-Lodge</i> ✓✓RM                                                                                                    | 2RM correct road<br>(2)                                                                                                    | MP<br>L2 |
| 4.2.4 | Time / <i>Tyd</i> = $\frac{2,34 \text{ km}}{40 \text{ km/h}}$ ✓SF<br>= 0,0585 h × 60 ✓C<br>= 3,51 minutes ✓CA                          | 1SF calculating time<br><br>1C multiply by 60<br>1CA simplification<br><b>NPR</b><br>(3)                                   | MP<br>L2 |
| 4.2.5 | $P = \frac{13}{42}$ ✓A<br><b>OR/OF</b> 0,310 <b>OR/OF</b> 31%<br><br><b>OR/OF</b><br><br>✓MA<br>$1 - \frac{29}{42} = \frac{13}{42}$ ✓A | 1A numerator (independent)<br>1A denominator<br><br><b>OR/OF</b><br><br>1MA subtracting from 1<br>1A simplification<br>(2) | P<br>L2  |
|       |                                                                                                                                        | [24]                                                                                                                       |          |





| <b>QUESTION/VRAAG 5 [35 MARKS/PUNTE]</b> |                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                      |                |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Q/V</b>                               | <b>Solution/Oplissing</b>                                                                                                                                                                                                                                                                                 | <b>Explanation/Verduideliking</b>                                                                                                                                                                                                                                                                                    | <b>T&amp;L</b> |
| 5.1.1                                    | <p>R2 085 600 000 ✓✓RT</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>R2 085,6 million / <i>miljoen</i> ✓✓RT</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>R2,0856 billion / <i>miljard</i> ✓✓RT</p>                                                                                     | <p>2RT correct amount</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">                     Table value = max 1 mark                 </div> <p style="text-align: right;">(2)</p>                                                                                      | D<br>L1        |
| 5.1.2                                    | <p style="text-align: center;">✓RT</p> $\frac{R1\ 323 + R2\ 085,6 + R3\ 162 + R2\ 158 + R1\ 847 + R2\ 732}{6}$ <p style="text-align: right;">✓M</p> <p>million / <i>miljoen</i></p> <p style="text-align: right;">✓CA</p> <p>= R2 217 933 333 <b>OR/OF</b><br/>R2 217,933333 million / <i>miljoen</i></p> | <p><b>AO</b></p> <p>1RT correct values</p> <p>1M concept of mean</p> <p>1CA simplification<br/><b>NPR</b></p> <p style="text-align: right;">(3)</p>                                                                                                                                                                  | D<br>L2        |
| 5.1.3                                    | <p style="text-align: center;">✓A</p> <p>Maximum = 46,1 thousand / <i>duisend</i></p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Maximum = 46 100 ✓✓RT</p>                                                                                                                                        | <p>1A correct value<br/>1A unit</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>2RT correct maximum</p> <p style="text-align: right;">(2)</p>                                                                                                                                                                 | D<br>L1        |
| 5.1.4                                    | <p style="text-align: center;">✓RT</p> $A = \frac{2\ 158\ 000\ 000}{3\ 441\ 000\ 000\ 000} \times \frac{100\ \%}{1}$ <p style="text-align: right;">✓M</p> <p>= 0,062714327% ✓CA<br/>= 0,06% ✓R</p>                                                                                                        | <p><b>AO</b></p> <p>1RT correct values<br/>1M multiply by 100<br/>1CA simplification<br/>1R rounding</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">                     If omitted zeros = max 3 marks                 </div> <p style="text-align: right;">(4)</p> | D<br>L2        |
| 5.2.1                                    | <p>A person who is able and willing to work, but cannot find work /<br/><i>'n Persoon wat geskik en gewillig is om te werk, maar nie 'n werk kry nie.</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p>                                                                                         | <p>2A explanation</p>                                                                                                                                                                                                                                                                                                | D<br>L1        |

| Q/V   | Solution/Oplissing                                                                                                                                                                                                                                                                                                                                                                                                                       | Explanation/Verduideliking                                                                                                                                                                                                                                                                           | T&L     |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|       | <p>People who are without work / <i>Mens wat sonder werk is</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>People who are jobless / <i>Mense wat werkloos is</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Not earning a salary / wage / income<br/><i>Verdien nie 'n salaris / loon / inkomste nie</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Retrenched / <i>Afgedank</i> ✓✓A</p> | <p>2A explanation</p> <p style="text-align: right;">(2)</p>                                                                                                                                                                                                                                          |         |
| 5.2.2 | <p><math>X = 1\ 748 - 506</math> ✓M<br/><math>= 1\ 242</math> ✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>✓M<br/><math>X = 16\ 172 - (1\ 391 + 806 + 4\ 991 + 2\ 513 + 1\ 417 + 321 + 999 + 2\ 492)</math><br/><math>= 1\ 242</math> ✓A</p>                                                                                                                                                                                | <p>1M subtracting correct values<br/>1A simplification</p> <p>1M subtracting correct values<br/>1A simplification</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>No penalty for including zeros</p> </div> <p style="text-align: right;">(2)</p> | D<br>L1 |
| 5.2.3 | <p>Questionnaire / <i>vraelys</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Survey / <i>opname</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Population census / <i>populasie sensus</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Document analysis / <i>dokument analise</i> ✓✓A</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Interview / <i>onderhoud</i> ✓✓A</p>        | <p>2A correct answer</p> <p style="text-align: right;">(2)</p>                                                                                                                                                                                                                                       | D<br>L1 |

| <b>Q/V</b> | <b>Solution/Oplissing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Explanation/Verduideliking</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>T&amp;L</b> |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 5.2.4      | Percentage of people / <i>Persentasie mense</i><br>$\frac{1412\ 000}{4\ 507\ 000} \times \frac{100}{1} \% \checkmark M$ $= 31,329 \% \checkmark CA$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1RT using both correct values<br>1M percentage calculation<br>1CA simplification<br><br><div style="border: 1px solid black; padding: 2px; width: fit-content;">                         If omitted zeros<br/>                         = full marks                     </div> NPR<br>(3)                                                                                                                                                         | D<br>L2        |
| 5.2.5      | $16\ 172\ 000 : 5\ 882\ 000$ $2,7494 : 1 \checkmark A$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1RT both correct values<br>1A ratio in unit form<br><br><div style="border: 1px solid black; padding: 2px; width: fit-content;">                         Accept:<br/>                         2,749 / 2,75 / 2,7                     </div> (2)                                                                                                                                                                                                   | D<br>L2        |
| 5.2.6      | $\text{Probability (NEA)} = \frac{697\ 000}{1\ 893\ 000}$ $= 0,368 \checkmark CA$ <p align="center"><b>OR/OF</b></p> $\text{Probability (NEA)} = \frac{697\ 000}{15\ 475\ 000}$ $= 0,045 \checkmark CA$ <div style="border: 1px solid black; padding: 5px;"> <p><b>AFRIKAANS VRAESTEL</b></p> <math display="block">\text{Probability (NEA)} = \frac{1\ 196\ 000}{1\ 893\ 000}</math> <math display="block">= 0,63 \checkmark CA</math> <math display="block">\approx 0,6</math> <p align="center"><b>OR/OF</b></p> <math display="block">\text{Probability (NEA)} = \frac{1\ 196\ 000}{22\ 054\ 000}</math> <math display="block">= 0,05 \checkmark CA</math> <math display="block">\approx 0,1</math> </div> | <b>AO</b><br>2RT correct values<br><br>1CA simplification<br><br><b>OR/OF</b><br>2RT correct values<br><br>1CA simplification<br><br><b>OR/OF</b><br>2RT correct values<br><br>1CA simplification<br><br><b>OR/OF</b><br>2RT correct values<br><br>1CA simplification<br><br><div style="border: 1px solid black; padding: 2px; width: fit-content;">                         If omitted zeros = full marks                     </div> NPR<br>(3) | P<br>L2        |

| Q/V   | Solution/Oplissing                                                                    | Explanation/Verduideliking                                                                   | T&L               |
|-------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------|
| 5.2.7 | <p><b>Do not mark this question.</b></p> <p><i>Moenie hierdie vraag merk nie.</i></p> |                                                                                              |                   |
| 5.2.8 | $\frac{3}{9} \checkmark\checkmark A$ $= \frac{1}{3} \checkmark CA$                    | <p><b>AO</b></p> <p>2A numerator<br/>1A denominator</p> <p>1CA simplification</p> <p>(4)</p> | P<br>L3           |
|       |                                                                                       |                                                                                              | [35]              |
|       |                                                                                       |                                                                                              | <b>TOTAL: 150</b> |

**Upscaling of Question 5 mark**  
**Aanpassing van Vraag 5 punt**

| QUESTION/VRAAG 5 |                |
|------------------|----------------|
| Mark out of 29   | Mark out of 35 |
| 29               | 35             |
| 28               | 34             |
| 27               | 33             |
| 26               | 31             |
| 25               | 30             |
| 24               | 29             |
| 23               | 28             |
| 22               | 27             |
| 21               | 25             |
| 20               | 24             |
| 19               | 23             |
| 18               | 22             |
| 17               | 21             |
| 16               | 19             |
| 15               | 18             |
| 14               | 17             |
| 13               | 16             |
| 12               | 14             |
| 11               | 13             |



| QUESTION/VRAAG 5 |                |
|------------------|----------------|
| Mark out of 29   | Mark out of 35 |
| 10               | 12             |
| 9                | 11             |
| 8                | 10             |
| 7                | 8              |
| 6                | 7              |
| 5                | 6              |
| 4                | 5              |
| 3                | 4              |
| 2                | 2              |
| 1                | 1              |