

# Soek jy 'n fantastiese tutor?

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# basic education

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

## **NATIONAL SENIOR CERTIFICATE** **NASIONALE SENIOR SETIFIKAAT**

**GRADE/GRAAD 12**

**MATHEMATICAL LITERACY P1/  
WISKUNDIGE GELETTERDHEID VI**

**NOVEMBER 2019**

**MARKING GUIDELINES/NASIENRIGLYNE**

**MARKS/PUNTE: 150**

<b>Symbol/Kode</b>	<b>Explanation/Verduideliking</b>
<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/dokument/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 consistent accuracy/Metode met volgehoue akkuraatheid
<b>RCA</b>	Rounding consistent with accuracy/ Afronding met volgehoue akkuraatheid

**This marking guideline consists of 18 pages and 2 pages of notes.**  
**Hierdie nasienriglyne bestaan uit 18 bladsye en 2 bladsye notas.**

**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.
- The general principle of marking is that if a candidate makes one mistake and there is sound mathematics thereafter, the candidate loses one mark.

**LET WEL:**

- As 'n kandidaat 'n vraag TWEE KEER beantwoord, sien slegs die EERSTE poging na.
- As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, sien die doodgetrekte (gekanselleerde) poging na.
- Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyne toegepas, dit hou by die tweede berekeningsfout op.
- Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem en ekstra antwoorde gee, penaliseer vir elke ekstra item.
- Die algemene beginsel van merk is as 'n leerder een fout maak verloor die leerder een punt.

QUESTION/VRAAG 1 [30 MARKS/PUNTE] AO			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
1.1.1	Numerical data/Numeriese data ✓✓A	2A correct identification (2)	D L1
1.1.2	Modal allowance/Modale toelaag  = R1 780 ✓✓A	2A mode (2)	D L1
1.1.3	R1 715; R1 715; R1 695; R1 695; R1 695; R960; R405 ✓✓A	2A descending order <div>Accept the names</div> (2)	D L1
1.1.4	Increase in rand/Verhoging in rand ✓RT R1 780 – R1 695 = R85,00 ✓A	1RT correct 2 values  1A simplification (2)	F L1
1.1.5	Pension allowances older than 75 ✓A Staatsouderdomstoelae ouer as 75 War veteran allowances/Oorlogsveteranetoelae/Toelaes vir oorlogsveterane ✓A	1A correct allowance   1A correct allowance (2)	D L1

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
1.2.1	<p>1 kg = 1 000 g  ? = 400 g</p> <p>∴ Quantity/ massa in kg = <math>\frac{400\text{g}}{1000}</math> ✓MA  = 0,4 kg ✓A</p> <p><b>OR/OF</b></p> <p>400 g = <math>\frac{400}{1\,000}</math> kg ✓MA  = 0,4 kg ✓A</p> <p><b>OR/OF</b></p> <p>400 g = 400 × 0,001kg ✓MA  = 0,4 kg ✓A</p>	<p>1MA dividing by 1 000  1A amount in kg</p> <p><b>OR/OF</b></p> <p>1MA dividing by 1 000  1A amount in kg</p> <p><b>OR/OF</b></p> <p>1MA multiply by 0,001  1A amount in kg  <b>NPU</b></p> <p>(2)</p>	M L1
1.2.2	<p style="text-align: right;">✓RT</p> <p>Profit/Wins = R14,30 – R10,99 ✓M  = R3,31 ✓CA</p>	<p>1RT correct values  1M subtracting values  1CA simplification</p> <p>(3)</p>	F L1
1.2.3	<p>Number of packets/Getal pakkies</p> <p>2,5 kg × <math>\frac{1000}{250}</math> ✓MA  = 10 packets/pakkies ✓CA</p> <p><b>OR/OF</b></p> <p><math>\frac{2,5\text{kg}}{0,25\text{kg}}</math> ✓C  = 10 packets ✓CA</p> <p><b>OR/OF</b></p> <p>250g : 2,5kg ✓MA  250g : 2500g ✓C  1: 10  = 10 packets ✓CA</p>	<p>1MA multiply by 1 000  1M dividing by 250g  1CA simplification</p> <p><b>OR/OF</b></p> <p>1C converting into kg  1M dividing by 0,25 kg  1CA simplification</p> <p><b>OR/OF</b></p> <p>1MA ratio concept  1C conversion to same unit  1CA simplification</p> <p>(3)</p>	M L1

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
1.2.4	<p>Selling price/<i>Verkoopsprys</i></p> $\frac{R29,20}{8} \checkmark \text{MA}$ $= R3,65 \checkmark \text{CA}$ <p><b>OR/OF</b></p> $\frac{2 \text{ kg}}{8} = 0,25 \text{ kg}$ $\therefore 2 \text{ kg} = R29,20$ $0,25 \text{ kg} = \frac{0,25 \times R29,20}{2} \checkmark \text{MA}$ $= R3,65 \checkmark \text{CA}$	<p>1MA dividing correct value by 8</p> <p>1CA simplification (only if dividing by 8 or correct value used)</p> <p><b>OR/OF</b></p> <p>1MA dividing by 2 AND multiply by 0,25</p> <p>1CA simplification</p> <p>(2)</p>	F L1
1.3.1 (a)	69 <b>OR/OF</b> 69% $\checkmark \checkmark \text{A}$	2A correct value (2)	D L1
1.3.1 (b)	80 <b>OR/OF</b> 80% $\checkmark \checkmark \text{A}$	2A correct value (2)	D L1
1.3.2	<p>Difference/<i>Verskil</i></p> $\checkmark \text{RT}$ $84\% - 64\%$ $= 20\% \checkmark \text{CA}$	<p>1RT both correct values</p> <p>1CA simplification</p> <p>(2)</p>	D L1
1.4.1	<p>16:00 <b>OR/OF</b> four o'clock in the afternoon/<i>vier uur in die middag</i> <b>OR/OF</b> 4 pm</p>	<p>2A correct value</p> <p>(2)</p>	D L1

Q/V	Solution/ <i>Oplossing</i>	Explanation/ <i>Verduideliking</i>	T&L
1.4.2	<p>Probability/<i>Waarskynlikheid</i></p> <p>= 20% <b>OR/OF</b> 0,2 <b>OR/OF</b> <math>\frac{20}{100}</math> <b>OR/OF</b> <math>\frac{2}{10}</math> <b>OR/OF</b> <math>\frac{1}{5}</math></p> <p><b>OR/OF</b></p> <p>unlikely/<i>onwaarskynlik</i></p> <p><b>OR/OF</b></p> <p>less likely/<i>minder waarskynlik</i> ✓✓A</p>	<p>2A correct value/words</p> <p>(2)</p>	<p>P</p> <p>L1</p>
		[30]	

<b>QUESTION/VRAAG 2 [42 MARKS/PUNTE]</b>			
<b>Q/V</b>	<b>Solution/Oplissing</b>	<b>Explanation/Verduideliking</b>	<b>T&amp;L</b>
2.1.1	Market value/ <i>Markwaarde</i> = R944 630,00 Nine hundred and forty four thousand six hundred and thirty rand. ✓✓A <i>Negehonderd vier en veertig duisend ses honderd en dertig rand.</i>	2A correct value in words <b>NPU</b> (2)	F L1
2.1.2	Amount of VAT/ <i>Bedrag vir BTW</i> $R836,02 \times \frac{15}{100}$ ✓MA = R125,40 ✓CA  <b>OR/OF</b> $R836,02 \times 1,15$ ✓MA = R961,42 $R961,42 - R836,02$ = R125,40 ✓CA	$1MA \text{ correct value} \times \frac{15}{100}$ 1CA simplification  <b>OR/OF</b> $1MA \text{ correct value} \times 1,15$ 1CA simplification (2)	F L1
2.1.3	Litres/ <i>liter</i> <b>OR/OF</b> ℓ ✓✓A	2A correct unit Accept $dm^3$ (2)	F L1
2.1.4	Monthly sewer charge/ <i>Maandelikse rioolverwyderingskoste</i> <b>A</b> = R378,95 ✓✓A	2A correct charge (2)	F L1
2.1.5	Total water charge/ <i>Totale water koste</i> ✓MA ✓RT <b>B</b> = $(6 \times R8,28) + (4 \times R8,79) + (2 \times R15,00)$ = R49,68 + R35,16 + R30,00 ✓M = R114,84 ✓CA	1MA identify 6, 4, 2 1RT identify R8,28; R8,79; R15,00 1M adding (at least 2 correct values) 1CA simplification (4)	F L2
2.2.1	Inverse proportion/Omgekeerde eweredigheid ✓✓A  <b>OR/OF</b> Indirect proportion / <i>Indirekte eweredigheid</i>	2A type of proportion (2)	F L1

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.2.2	6 ✓✓A	2A correct number (2)	F L1
2.2.3	Amount per person/Bedrag per persoon ✓RT $= \frac{R3\,000,00}{7}$ ✓MA  = R428,57 ✓CA	1RT correct cost (R3 000) 1MA dividing by 7  1CA simplification (3)	F L1
2.2.4 (a)	$\frac{R17\,000,00}{R500,00}$ ✓MA = 34 months/maande ✓CA	1MA dividing by R500,00  1CA simplification <b>AO</b> (2)	F L1
2.2.4 (b)	Interest rate/Rentekoers = 8,30% ✓✓A	2A correct interest rate (2)	F L1
2.2.4 (c)	Interest for 1 year/Rente vir 1 jaar $= R17\,000,00 \times \frac{8,30}{100}$ ✓M Interest for 3 years/Rente vir 3 jaar  = R1 411,00 × 3 = R4 233,00 ✓CA = R4 200,00 ✓R  <b>OR/OF</b>  Interest earned for 3 years /Rente verdien vir 3 jaar  $R17\,000,00 \times \frac{8,30}{100} \times 3$ ✓M = R4 233,00 ✓CA = R4 200,00 ✓R	<b>CA from Question 2.2.4 (b)</b>  1M interest calculation  1CA simplification 1R rounding  <b>OR/OF</b>  1M interest calculation  1CA simplification 1R rounding (3)	F L2
2.2.4 (d)	Percentage point difference/Persentasiepunte verskil  8,46% – 7,76% ✓RT = 0,7% ✓CA	1RT correct values 1CA simplification <b>AO</b> (2)	F L1



Please turn over/*Blaai om asseblief*

QUESTION/VRAAG 3 [26 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.1.1	<p>Volume = It is the amount of solids or liquids an object can take/hold.  <i>Volume = Is die hoeveelheid vaste of vloeistowwe 'n voorwerp kan vat.</i> ✓✓A</p> <p><b>OR/OF</b></p> <p>Volume is the amount of space occupied by an object  <i>Volume is die hoeveelheid spasie opgeneem deur die voorwerp.</i></p>	<p>2A explanation</p> <p>(2)</p>	M L1
3.1.2	<p>Volume = side <math>\times</math> side <math>\times</math> height/<i>sy <math>\times</math> sy <math>\times</math> hoogte</i>  ✓C  <math>= 0,5 \text{ m} \times 0,5 \text{ m} \times 0,08 \text{ m}</math> ✓SF  <math>= 0,02 \text{ m}^3</math> ✓CA</p> <p><b>OR/OF</b></p> <p><math>\frac{20\,000 \text{ cm}^3}{1\,000\,000}</math> ✓SF  <math>50 \text{ cm} \times 50 \text{ cm} \times 8 \text{ cm}</math>  <math>= 0,02 \text{ m}^3</math> ✓C  ✓CA</p>	<p>1SF correct substitution  1C conversion  1CA simplification</p> <p><b>OR/OF</b></p> <p>1 SF correct substitution  1C conversion  1CA simplification</p> <p>(3)</p>	M L2
3.2.1	<p>Area of one block = length <math>\times</math> breadth  <math>= 50 \text{ cm} \times 50 \text{ cm}</math> ✓SF  <math>= 2\,500 \text{ cm}^2</math>  Area of 12 blocks = <math>0,25 \text{ m}^2 \times 12</math> ✓MA  <math>= 3 \text{ m}^2</math> ✓CA</p> <p><b>OR/OF</b></p> <p>Area of one block = length <math>\times</math> breadth  <math>= 0,5 \text{ m} \times 0,5 \text{ m}</math> ✓SF  <math>= 0,25 \text{ m}^2</math>  Area of 12 blocks = <math>0,25 \text{ m}^2 \times 12</math> ✓MA  <math>= 3 \text{ m}^2</math> ✓CA</p> <p><b>OR/OF</b></p>	<p><b>CA from Question 3.1.2</b></p> <p>1SF substituting correct values  1MA multiply by 12  1CA answer in <math>\text{m}^2</math></p> <p><b>OR/OF</b></p> <p>1SF substituting correct values  1MA multiply by 12  1CA answer in <math>\text{m}^2</math></p> <p><b>OR/OF</b></p>	M L2

Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
	<p>Area of 12 blocks = <math>12 \times (\text{side} \times \text{side})</math>  <i>Area van 12 blokke</i> = <math>12 \times (0,5 \text{ m} \times 0,5 \text{ m})</math> ✓SF  = <math>12 \times 0,25 \text{ m}^2</math> ✓MA  = <math>3 \text{ m}^2</math> ✓CA</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Area of 12 blocks = <math>12 \times (\text{side} \times \text{side})</math>  <i>Area van 12 blokke</i> = <math>12 \times (50 \text{ cm} \times 50 \text{ cm})</math> ✓SF  = <math>12 \times 2\,500 \text{ cm}^2</math> ✓MA  = <math>3 \text{ m}^2</math> ✓CA</p>	<p>1SF substituting correct values  1MA multiply by 12  1CA answer in <math>\text{m}^2</math></p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1SF substituting correct values  1MA multiply by 12  1CA answer in <math>\text{m}^2</math></p> <p style="text-align: right;">(3)</p>	
3.2.2	<p>Area of walkway  ✓SF  <math>4,05 \text{ m} \times 1,45 \text{ m}</math>  = <math>5,8725 \text{ m}^2</math> ✓A</p> <p>Area to be covered with pebbles  = <math>5,8725 \text{ m}^2 - 3 \text{ m}^2</math> ✓MCA  = <math>2,8725 \text{ m}^2</math> ✓CA</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Area to be covered with pebbles  ✓SF  <math>(4,05 \text{ m} \times 1,45 \text{ m}) - 3 \text{ m}^2</math>  ✓A  = <math>5,8725 \text{ m}^2 - 3 \text{ m}^2</math> ✓MCA  = <math>2,8725 \text{ m}^2</math> ✓CA</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Area of walkway  ✓SF  <math>405 \text{ cm} \times 145 \text{ cm}</math>  = <math>58\,725 \text{ cm}^2</math> ✓A</p> <p>Area to be covered with pebbles  = <math>58\,725 \text{ cm}^2 - 30\,000 \text{ cm}^2</math> ✓MCA  = <math>28\,725 \text{ cm}^2</math> ✓CA</p> <p style="text-align: center;"><b>OR/OF</b></p>	<p><b>CA from Question 3.2.1</b></p> <p>1SF substitution  1A simplification</p> <p>1MCA subtracting area of blocks  1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1SF substitution  1A simplification  1MCA subtracting area of blocks  1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1SF substitution  1A simplification</p> <p>1MCA subtracting area of blocks  1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p>	M L3

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.2.2	Area to be covered with pebbles $\checkmark$ SF $(405 \text{ cm} \times 145 \text{ cm}) - 30\,000 \text{ cm}^2$ $\checkmark$ A $= 58\,725 \text{ cm}^2 - 30\,000 \text{ cm}^2 \checkmark$ MCA $= 28\,725 \text{ cm}^2 \checkmark$ CA	1SF substitution 1A simplification 1MCA subtracting area of blocks 1CA simplification <b>NPR</b> (4)	
3.2.3	$\frac{5,7 \text{ m}^2}{0,36 \text{ m}^2} \checkmark$ MA $= 15,833 \checkmark$ CA $= 16 \text{ bags of pebbles/sakkies klippies} \checkmark$ RCA	1MA dividing by $0,36 \text{ m}^2$ 1CA simplification 1RCA rounding (3)	M L2
3.3.1	Length of large window frame/ <i>Lengte van die groot venster</i> $\frac{890 \text{ mm}}{10} \checkmark$ MA $= 89 \text{ cm} \checkmark$ CA	1MA dividing by 10 1CA simplification <b>AO</b> (2)	M L1
3.3.2	Perimeter/ <i>Omtrek</i> $\checkmark$ MA $= 18,5 \text{ cm} + 18,5 \text{ cm} + 18,5 \text{ cm} + 18,5 \text{ cm}$ $= 74 \text{ cm} \checkmark$ CA  <b>OR/OF</b>  Perimeter/ <i>Omtrek</i> $= 4 \times 18,5 \text{ cm} \checkmark$ MA $= 74 \text{ cm} \checkmark$ CA  <b>AFRIKAANS ONLY OMIT SUB QUESTION 3.3.2 – UPSCALE FROM 24 TO 26</b>	1MA adding 4 sides 1CA simplification  <b>OR/OF</b>  1MA side multiplied by four 1CA simplification (2)	M L1
3.3.3	Diameter/ <i>Deursnee</i> $= 1,85 \text{ cm} \times 2$ $= 3,7 \text{ cm} \checkmark$ A  $\frac{18,5 \text{ cm}}{3,7 \text{ cm}} \checkmark$ M $= 5 \text{ beads} \checkmark$ CA	1A diameter  1M dividing by diameter 1CA simplification (3)	M L2

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
3.3.4	<p>✓MA  <math>2 \times 18,5 \text{ cm} = \frac{3}{4}</math> of the width of the large window/<i>van die wydte van die groter venster</i></p> <p>✓A  <math>37 \text{ cm} = \frac{3}{4}</math> of the width of the large window/<i>van die wydte van die groter venster</i></p> <p>Width of large window/<i>breedte van groot venster</i>  <math>= 37 \text{ cm} \times \frac{4}{3}</math> ✓MA  <math>= 49,33 \text{ cm}</math> ✓CA</p>	<p>1MA multiply 18,5 by 2</p> <p>1A simplification</p> <p>1MA multiply with inverse</p> <p>1CA simplification  <b>NPR</b></p> <p>(4)</p>	M L2
		[26]	

QUESTION/VRAAG 4 [24 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.1.1	Camping, swimming, dining(eating) and checking-in (enquiries/registration/making payments).  <i>Kampeer, swem en eet en inboek (navrae/registrasie/betalings maak).</i> ✓✓✓✓ A	4A 4 correct activities (4)	MP L1
4.1.2	Umngeni ✓✓ RT	2RT reading from map (2)	MP L1
4.1.3	5 restaurants / restaurante ✓✓ RT	2RT reading from map (2)	MP L1
4.1.4	Bar Scale/Staafskaal ✓✓ A	2A correct scale Accept: Line scale/Lynskaal/ Balkskaal (2)	MP L1
4.1.5	<p>✓A  <math>4,2 \text{ cm} = 4 \text{ km}</math>  <math>1 \text{ cm} = 0,9524 \text{ km}</math> ✓M            ✓MA  <math>\therefore 10 \text{ cm} = 9,524 \text{ km}</math>  <math>\approx 10 \text{ km}</math> ✓CA</p> <p style="text-align: center;"><b>OR/OF</b></p> <p> <math>\frac{10 \text{ cm}}{4,2 \text{ cm}} \times 4 \text{ km}</math> ✓M            ✓MA            ✓A  <math>= 9,524 \text{ km}</math>  <math>\approx 10 \text{ km}</math> ✓CA</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>           ✓A  <math>2,1 \text{ cm} = 2 \text{ km}</math>  <math>1 \text{ cm} = 0,9524 \text{ km}</math> ✓M            ✓MA  <math>\therefore 10 \text{ cm} = 9,524 \text{ km}</math>  <math>\approx 10 \text{ km}</math> ✓CA</p> <p style="text-align: center;"><b>OR/OF</b></p>	<p>1A measure bar scale            1M concept of scale            1MA multiply by scale            1CA conversion</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1A measure bar scale            1M concept of scale            1MA multiply by scale            1CA conversion</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1A measure bar scale            1M concept of scale            1MA multiply by scale            1CA conversion</p> <p style="text-align: center;"><b>OR/OF</b></p>	MP L2



Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.2.2	<p>✓RT ✓RT Bedroom 1, Bathroom and Bedroom 2 / <i>Slaapkamer 1, Badkamer en Slaapkamer 2</i></p> <p><b>OR/OF</b></p> <p><b>ONLY AFRIKAANS CANDIDATES:</b> ✓RT ✓RT <i>Slaapkamer 1, Kombuis</i></p>	<p>1RT first room 1RT other 2 rooms</p> <p><b>OR/OF</b></p> <p>1RT bedroom 1 1RT kitchen</p> <p>(2)</p>	MP L2
4.2.3	<p><math>\frac{0}{2}</math> <b>OR/OF</b> 0 <b>OR/OF</b> 0%</p> <p><b>OR/OF</b> ✓✓A</p> <p>Impossible/<i>Onmoontlik</i></p>	<p>2A probability</p> <p>(2)</p>	P L2
		[24]	



QUESTION/VRAAG 5 [28 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
5.1.1	Questionnaires <b>OR</b> Interviews <b>OR</b> Survey <b>OR</b> Document analysis <b>OR</b> Research <b>OR</b> Observation  <i>Vraelys <b>OF</b> Onderhoud <b>OF</b> Meningspeiling (opname) <b>OF</b> Dokument analise <b>OF</b> Navorsing <b>OF</b> Observeer ✓✓A</i>	2A means of collecting data  (2)	D L1
5.1.2	<b>% Yard trimmings/Werfsnoeisels</b> ✓MA $= 100\% - (3,4\% + 11,2\% + 49,7\% + 3,3\% + 9,0\%)$ $= 100\% - 76,6\%$ ✓M $= 23,4\%$ ✓CA	1MA adding all correct values 1M subtracting from 100% 1CA simplification <b>AO</b> (3)	D L2
5.1.3	<b>% Textiles/Tekstiele</b>  $= 11,2\% - (1,6\% + 2,3\% + 2,9\% + 1,7\%)$ $= 11,2\% - 8,5\%$ ✓MA $= 2,7\%$ ✓CA	1MA subtracting from 11,2% 1CA simplification <b>AO</b> (2)	D L2
5.1.4	Tons of plastic/Ton plastiek ✓RT $91\,160\,000 \times \frac{3,4}{100}$ ✓MA $= 3\,099\,440$ tons/ton ✓CA  <b>OR/OF</b>  ✓RT $91,16 \times \frac{3,4}{100}$ ✓MA $= 3,09944$ million tons/ton ✓CA	1RT correct total 1MA multiply by 3,4% 1CA simplification  <b>OR/OF</b>  1RT correct total 1MA multiply by 3,4% 1CA simplification <b>NPR</b> (3)	D L2
5.1.5	Cans, pieces of a motor vehicles, household appliances; scrap metal <b>OR</b> any other product that includes metal /  <i>Blikke, dele van 'n motorfiets, afvalmetaal <b>OF</b> enige ander produk wat metaal bevat. ✓✓A</i>	2A metal products that are recyclable  (2)	D L1

Q/V	Solution/ <i>Oplossing</i>	Explanation/ <i>Verduideliking</i>	T&L
5.1.6	Stacked bar graph <b>OR</b> Compound bar graph <b>OR</b> Bar graph  <i>Saamgestelde staaf grafiek <b>OF</b> Stapel/balk grafiek <b>OF</b> Staaf grafiek</i>  ✓✓A	2A type of graph  (2)	D L1
5.1.7	Probability/ <i>Waarskynlikheid</i> Other/ <i>Ander</i> = 11,2% ✓RT ✓MA $1,7\% + 1,6\% + 2,3\% + 2,9\% = 8,5\%$ $\frac{8,5}{11,2}$ ✓M $= 0,7589285$ ✓CA  <b>OR/OF</b>  $\checkmark A \quad \checkmark RT$ $1 - \frac{2,7}{11,2} \checkmark MA$ $= 0,7589285 \checkmark CA$	1RT correct values 1MA adding all values  1M dividing 1CA simplification  <b>OR/OF</b> <b>CA from Question 5.1.3</b> 1RT correct values 1A for the number one 1MA subtracting 1CA simplification <b>NPR</b>  (4)	P L2
5.2.1	10 ✓✓A	2A correct number  (2)	D L1
5.2.2	Number of seats/ <i>setels</i> ✓A $33 : 27$ ✓M  $= 11 : 9$ ✓CA	1A correct values 1M ratio in correct order  1CA simplified ratio Accept unit ratio or fractional form  (3)	D L1
5.2.3	National Freedom Party / NFP <i>Nasionale Vryheidsparty/NVP/NFP</i> ✓✓RT	2RT reading from table  (2)	D L1

Q/V	Solution/Opplossing	Explanation/Verduideliking	T&L																												
5.2.4	<table border="1"> <thead> <tr> <th>Political Party</th> <th>Permanent</th> <th>Special</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>African National Congress</td> <td>33</td> <td>27</td> <td>60</td> </tr> <tr> <td>Democratic Alliance</td> <td>✓A 13</td> <td>✓A 7</td> <td>✓A 20</td> </tr> <tr> <td>Economic Freedom Fighters</td> <td>6</td> <td>1</td> <td>7</td> </tr> <tr> <td>Inkatha Freedom Party</td> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>National Freedom Party</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>United Democratic Movement</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table> <p>3A bars correctly drawn (3)</p>		Political Party	Permanent	Special	Total	African National Congress	33	27	60	Democratic Alliance	✓A 13	✓A 7	✓A 20	Economic Freedom Fighters	6	1	7	Inkatha Freedom Party	1	0	1	National Freedom Party	0	1	1	United Democratic Movement	1	0	1	D L2
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		[28]																													
	<b>TOTAL/TOTAAL: 150</b>																														