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# basic education

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

**NATIONAL  
SENIOR CERTIFICATE/  
NASIONALE  
SENIOR SERTIFIKAAT**

**GRADE/GRAAD 12**

**MATHEMATICAL LITERACY P1/  
WISKUNDIGE GELETTERDHEID V1**

**NOVEMBER 2024**

**MARKING GUIDELINES/NASIENRIGLYNE**

**MARKS/PUNTE: 150**

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

**These marking guidelines consist of 18 pages.  
Hierdie nasienriglyne bestaan uit 18 bladsye.**

**NOTE:**

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however it stops at the second calculation error or break-down.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.
- Rounding is an independent mark.
- General principle of marking, if the candidate makes one mistake one mark is deducted.
- A conclusion mark can only be awarded if relevant calculations of at least  $\frac{1}{3}$  of the maximum mark of the sub-question has been awarded.
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money.

**LET WEL:**

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

QUESTION/VRAAG 1 [29 MARKS/PUNTE] ANSWER ONLY FULL MARKS			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
1.1.1	5 / Five / Vyf ✓✓A	2A correct number (2)	D L1 E
1.1.2	✓A 17:30 – 18:00 ✓A  <b>OR / OF</b>  ✓A 5:30 pm – 6:00 pm ✓A  <b>OF / OF</b>  ✓A                      ✓A Half past five until 6 o'clock in the afternoon/evening/ Half ses tot 6 uur in die namiddag/aand.	1A 17:30 / 5:30 pm / Half past five  1A 18:00 / 6:00 pm / 6 o'clock  (2)	D L1 E
* 1.1.3	C ✓✓A	2A correct option (2)	D L1 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 1.1.4	Probability / <i>Waarskynlikheid</i>  $= \frac{56}{100} \quad \checkmark A$ $= \frac{14}{25} \quad \checkmark A$	1A writing as a fraction  1A simplification  (2)	P L1 E
* 1.1.5	Total number / <i>Totale getal</i> $\checkmark RT$ $= 26 + 26 \quad \checkmark MA$ $= 52 \quad \checkmark A$	1RT correct values 1MA adding correct values 1A simplification  (3)	D L1 E
1.2.1	$\checkmark \checkmark RT$ Sunflower oil / Oil / <i>Sonneblomolie / Olie</i> $\checkmark RT$ Oranges / <i>Lemoene</i>	2RT first correct product 1RT second correct product  (3)	F L1 E
1.2.2	Value of A / <i>Waarde van A</i>  $= R12,60 + R45,56 + R52,97 + R40,68 + R22,07 + R37,73 + R86,80 \quad \checkmark MA$  $= R298,41 \quad \checkmark A$	1MA adding ALL correct values  1A simplification <b>NPU</b>  (2)	F L1 E
* 1.2.3	Price per dozen / <i>Prys per dosyn</i>  $= R52,97 \div 1,5 \quad \checkmark A$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 20px;"> <math>OR \times \frac{1}{1,5}</math> </div> $= R35,31 \quad \checkmark A$  <b>OR / OF</b>  $1 \text{ egg} / \text{eier} = \frac{R52,97}{18} \quad \checkmark A$  Price per dozen / <i>Prys per dosyn</i> $= R2,94277 \times 12$ $= R35,31 \quad \checkmark A$  <b>OR / OF</b>	1A dividing by 1,5 1A simplification     1A dividing by 18   1A simplification	F L1 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 1.2.3	Price for $\frac{1}{2}$ dozen / <i>Prys per <math>\frac{1}{2}</math> dosyn</i>  $= \frac{R52,97}{3} \quad \checkmark A$ $= R17,65666$  Price for dozen / <i>Prys per dosyn</i> $= R17,65666 \times 2$ $= R35,31 \quad \checkmark A$	1A dividing by 3      1A simplification <b>NPR</b>  (2)	
* 1.2.4	$\checkmark RT$ $= 22,07 : 20,10 \quad \checkmark RT$  $= 1 : 0,9107385591$  $\approx 1 : 0,91 \quad \checkmark A$	1RT correct value 1RT correct value   1A simplification in correct order <b>NPR</b>  (3)	F L1 E
* 1.3.1	C $\checkmark\checkmark A$	2A correct letter  (2)	F L1 E
* 1.3.2	A $\checkmark\checkmark A$	2A correct letter  (2)	F L1 E
* 1.3.3	I $\checkmark\checkmark A$	2A correct letter  (2)	F L1 E
* 1.3.4	B $\checkmark\checkmark A$	2A correct letter  (2)	D L1 E
		<b>[29]</b>	

QUESTION/VRAAG 2 [30 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.1.1	07032985769 ✓✓RT	2RT correct number (2)	F L1 E
* 2.1.2	$\begin{aligned} &\checkmark\text{RT} \\ \mathbf{B} &= \text{R1 } 300,00 - \text{R1 } 130,43 \checkmark\text{MA} \\ &= \text{R169,57} \checkmark\text{A} \\ &\quad \quad \quad \mathbf{OR/OF} \\ \checkmark\text{RT} & \quad \quad \quad \checkmark\text{MA} \\ \mathbf{B} &= \text{R1 } 130,43 \times \frac{15}{100} \mathbf{OR} \times 0,15 \\ &= \text{R169,56} \checkmark\text{A} \\ &\quad \quad \quad \mathbf{OR/OF} \\ \checkmark\text{RT} & \quad \quad \quad \checkmark\text{MA} \\ \mathbf{B} &= \text{R1 } 300 \times \frac{15}{115} \checkmark\text{MA} \\ &= \text{R169,57} \checkmark\text{A} \end{aligned}$	$\begin{aligned} &1\text{RT correct value} \\ &1\text{MA subtracting values} \\ &1\text{A simplification} \\ &\quad \quad \quad \mathbf{OR/OF} \\ &1\text{RT correct value} \\ &1\text{MA calculating 15\%} \\ &1\text{A simplification} \\ &\quad \quad \quad \mathbf{OR/OF} \\ &1\text{RT correct value} \\ &1\text{MA calculating } \frac{15}{115} \\ &1\text{A simplification} \\ &\mathbf{AO} \end{aligned}$ (3)	F L1 E
* (2.1.3)	<p>Amount for Block 1 / <i>Bedrag vir Blok 1</i></p> $\begin{aligned} &= 350 \text{ kWh} \times \text{R2,19} \checkmark\text{MA} \\ &= \text{R766,50} \checkmark\text{CA} \end{aligned}$ <p>Amount left for Block 2 / <i>Bedrag oor vir Blok 2</i></p> $\begin{aligned} &= \text{R1 } 130,43 - \text{R766,50} \\ &= \text{R363,93} \checkmark\text{MCA} \end{aligned}$ <p>Units in Block 2/ <i>Eenhede in Blok 2</i></p> $\begin{aligned} &= \frac{\text{R363,93}}{\text{R2,91}} \checkmark\text{MCA} \\ &= 125,0618557 \text{ kWh} \checkmark\text{CA} \end{aligned}$ <p>Total kWh received / <i>Totale kWh ontvang</i></p> $\begin{aligned} &= 350 \text{ kWh} + 125,0618557 \text{ kWh} \checkmark\text{MCA} \\ &= 475,06 \text{ kWh} \checkmark\text{CA} \end{aligned}$ <p style="text-align: center;"><b>OR / OF</b></p>	<p>1MA multiplying with tariff</p> <p>1CA simplification</p> <p>1MCA calculating remaining amount in Block 2</p> <p>1MCA dividing by tariff</p> <p>1CA simplification</p> <p>1MCA adding values</p> <p>1CA simplification</p> <p style="text-align: center;"><b>OR / OF</b></p>	F L3 D

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 2.1.3	<p>Tariff (VAT included)</p> $= R2,19 \times \frac{115}{100}$ $= R2,5185$ <p>Tariff (VAT included)</p> $= R2,91 \times \frac{115}{100}$ $= R3,3465$ <p>Amount spent in Block 1 / <i>Bedrag spandeer in Blok 1</i></p> $= 350 \text{ kWh} \times R2,5185$ $= R881,475 \quad \checkmark \text{MCA}$ <p>Amount available for Block 2 / <i>Bedrag beskikbaar vir Blok 2</i></p> $= R1\,300 - R881,475 \quad \checkmark \text{MCA}$ $= R418,525$ <p>Units in Block 2 / <i>Eenhede in Blok 2</i></p> $= \frac{R418,525}{R3,3465} \quad \checkmark \text{MCA}$ $= 125,06 \text{ kWh} \quad \checkmark \text{CA}$ <p>Total kWh received / <i>Totale kWh ontvang</i></p> $= 350 \text{ kWh} + 125,06 \text{ kWh} \quad \checkmark \text{MCA}$ $= 475,06 \text{ kwh} \quad \checkmark \text{CA}$	<p>1A VAT calculation</p> <p>1MCA calculating amount in Block 1</p> <p>1MCA calculating remaining amount in Block 2</p> <p>1MCA dividing by R3,3465</p> <p>1CA simplification</p> <p>1MCA adding values 1CA simplification <b>NPR</b></p> <p>(7)</p>	
* 2.2.1	R1 549 $\checkmark \checkmark$ RT	<p>2RT correct amount <b>NPU</b></p> <p>(2)</p>	F L1 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
2.2.2	<p>Price excluding VAT / <i>Prys BTW uitgesluit</i></p> <p>✓RT  <math>= \frac{R78\ 200}{1,15}</math> ✓MA  <math>= R68\ 000</math> ✓A</p> <p><b>OR/OF</b></p> <p>Price excluding VAT / <i>Prys BTW uitgesluit</i></p> <p>✓RT  <math>= R78\ 200 \times \frac{100}{115}</math> ✓MA  <math>= R68\ 000</math> ✓A</p> <p><b>OR/OF</b></p> <p>VAT amount / <i>BTW bedrag</i></p> <p>✓RT  <math>= R78\ 200 \times \frac{15}{115}</math> ✓MA  <math>= R10\ 199,999</math>  <math>\approx R10\ 200</math></p> <p>Price excluding VAT / <i>Prys BTW uitgesluit</i>  <math>= R78\ 200 - R10\ 200</math>  <math>= R68\ 000</math> ✓A</p>	<p>1RT for R78 200  1MA dividing by 1,15</p> <p>1A simplification</p> <p><b>OR/OF</b></p> <p>1RT for R78 200  1MA multiplying <math>\times \frac{100}{115}</math>  1A simplification</p> <p><b>OR/OF</b></p> <p>1RT for R78 200  1MA multiplying <math>\times \frac{15}{115}</math></p> <p>1A simplification</p> <p>(3)</p>	F L2 E
* 2.2.3	<p>Number of months / <i>Aantal maande</i>  <math>= 12 \times 7</math>  <math>= 84</math> months / <i>maande</i> ✓A</p> <p>Rent-to-own / <i>Huur-om-te-besit</i></p> <p><math>= (R1\ 549 \times 84) + R782 + R7\ 820</math>  <math>= R130\ 116 + R782 + R7\ 820</math> ✓MCA  <math>= R138\ 718</math> ✓CA</p> <p>Difference / <i>Verskil</i></p> <p><math>= R138\ 718 - R78\ 200</math> ✓MCA  <math>= R60\ 518</math> ✓CA</p>	<p>1A correct number of months</p> <p>1MCA adding ALL correct values  1CA simplification</p> <p>1MCA subtracting values  1CA simplification</p> <p>(5)</p>	F L3 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 2.3.1	Annual taxable income / <i>Jaarlikse belasbare inkomste</i>  $= R39\,275,85 \times 12 \checkmark \text{MA}$ $= R471\,310,20 \checkmark \text{A}$  Tax Bracket C / <i>Belastingkerf C</i> $\checkmark \text{MCA}$	1MA multiplying by 12 1A simplification  1MCA tax bracket C <b>AO</b>  (3)	F L2 E
2.3.2	Tax before rebate / <i>Belasting voor kortings</i>  $77\,362 + 31\% \text{ of taxable income above } 370\,500$ $\checkmark \text{SF}$ $= R77\,362 + 31\% (R471\,310,20 - R370\,500)$  $= R77\,362 + 31\% (R100\,810,20)$  $= R77\,362 + R31\,251,162 \checkmark \text{MCA}$ $= R108\,613,162 \checkmark \text{CA}$  Annual tax payable / <i>Jaarlikse belasting betaalbaar</i>  $= R108\,613,162 - R17\,235 \checkmark \text{RT}$  $= R91\,378,162$  $= R91\,378,16 \checkmark \text{CA}$  <p style="text-align: center;"><b>OR/OF</b></p> Annual tax payable / <i>Jaarlikse belasting betaalbaar</i> $\checkmark \checkmark \text{MCA} \quad \checkmark \text{SF}$ $= R77\,362 + 0,31 (R471\,310,20 - R370\,500) -$ $R17\,235 \checkmark \text{RT}$  $= R91\,378,16 \checkmark \text{CA}$	<b>CA from Question 2.3.1</b>  1SF correct substitution  1MCA adding values 1CA simplification  1RT rebate: R17 235  1CA simplification  <p style="text-align: center;"><b>OR/OF</b></p> 1SF correct substitution 2MCA adding values 1RT rebate: R17 235  1CA simplification  (5)	F L3 M
		[30]	

QUESTION/VRAAG 3 [29 MARKS/PUNTE]			
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 3.1.1	2015 ✓✓RT	2RT correct year (2)	D L2 M
* 3.1.2	<p>Projected number of stores / <i>Geprojekteerde getal winkels</i></p> $\begin{aligned} &\checkmark\text{RT} \quad \checkmark\text{MA} \\ &= 2\,204 \times \frac{95,39}{100} + 2\,204 \\ &= 2\,102,3956 + 2\,204 \\ &= 4\,306,3956 \\ &= 4\,306 \quad \checkmark\text{CA} \end{aligned}$ <p style="text-align: center;"><b>OR/OF</b></p> <p>Projected number of stores / <i>Geprojekteerde getal winkels</i></p> $\begin{aligned} &\checkmark\text{RT} \quad \checkmark\text{MA} \quad \boxed{\text{OR} \times 1,9539} \\ &= 2\,204 \times \frac{195,39}{100} \\ &= 4\,306 \text{ stores / } \textit{winkels} \quad \checkmark\text{CA} \end{aligned}$	<p>1RT correct value 2 204 1MA percentage calculation</p> <p>1CA simplification</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT correct value 2 204 1MA percentage calculation</p> <p>1CA simplification <b>AO</b> <span style="border: 1px solid black; padding: 2px;">Accept: 4 307</span></p> <p>(3)</p>	D L2 M
* <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3.1.3</span>	<p>Average Shoprite / <i>Gemiddelde Shoprite</i></p> $\begin{aligned} &\checkmark\text{RT} \quad \checkmark\text{RT} \\ &= 153\,726 \div 3\,543 \\ &= 43,388653.... \text{ employees / } \textit{werknemers} \quad \checkmark\text{CA} \end{aligned}$ <p>Average Pick n Pay / <i>Gemiddelde Pick n Pay</i></p> $\begin{aligned} &\checkmark\text{RT} \\ &= 90\,000 \div 2\,204 \\ &= 40,834845.... \text{ employees / } \textit{werknemers} \quad \checkmark\text{CA} \end{aligned}$ <p><i>Her statement is VALID /</i> ✓O <i>Haar bewering is GELDIG.</i></p>	<p>1RT 153 726 1RT 3 543 1CA simplification</p> <p>1RT both correct values</p> <p>1CA simplification</p> <p>1O conclusion <b>NPR</b></p> <p>(6)</p>	D L4 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 3.1.4	Probability / Waarskynlikheid $\checkmark$ RT $= \frac{3}{10} \times 100\%$ $\checkmark$ RT $= 30\%$ $\checkmark$ CA	1RT correct numerator  1RT correct denominator  1CA simplification <b>AO</b>  (3)	P L2 E
* 3.2.1	Sample / Steekproef  $= 32$ $\checkmark$ A $\checkmark$ A  Population / Populasie  $= 12\ 342$ $\checkmark$ A  <b>OR/OF</b> $\checkmark\checkmark$ A 32 and / en 12 342 $\checkmark$ A	1A counting to 32 1A sample    1A correct population  <b>OR/OF</b> 2A sample in correct order 1A population in correct order (3)	D L2 M
* 3.2.2	Option E / Opsie E $\checkmark\checkmark$ A	2A correct option (2)	D L1 E
* 3.2.3	The value 127 is 60 minutes <u>more than the second highest</u> time in the dataset / Die waarde 127 is 60 minute <u>meer as die tweede hoogste</u> tyd van die datastel. $\checkmark\checkmark$ O	2O conclusion (2)	D L4 M
3.2.4 (a)	Quartile 3/Kwartiel 3 $= \frac{\checkmark$ RT $28 + 29}{2}$ $\checkmark$ MA  $= 28,5$ $\checkmark$ CA	1RT correct values 1MA concept of quartile  1CA simplification <b>AO</b> (3)	D L2 E
* 3.2.4 (b)	New Quartile 1/ Nuwe Kwartiel 1 $= 15$ $\checkmark$ RT  New Quartile 3/ Nuwe Kwartiel 3 $= 28$ $\checkmark$ RT  IQR $= Q_3 - Q_1$ $\checkmark$ A IQR $= 28 - 15$ $\checkmark$ MCA $= 13$ He is CORRECT. / Hy is KORREK. $\checkmark$ O	1RT correct value  1RT correct value  1A correct formula 1MCA subtracting values  1O conclusion (5)	D L4 M
		<b>[29]</b>	

QUESTION/VRAAG 4 [31 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
* 4.1.1 (a)	<p>Cost / <i>Koste</i>  <math>\checkmark A \quad \checkmark A \quad \checkmark A</math>  <math>= R4\ 000 + R1\ 250 \times (\text{number of hours exceeding } 5)</math>  <math>= R4\ 000 + R1\ 250 \times (\text{aantal ure meer as } 5)</math></p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Cost / <i>Koste</i>  <math>\checkmark A \quad \checkmark A</math>  <math>= R4\ 000 + R1\ 250 \times n</math></p> <p>Where <math>n</math> = number of hours exceeding 5          Waar <math>n</math> = aantal ure meer as 5 <math>\checkmark A</math></p>	<p>1A fixed cost (R4 000)</p> <p>1A multiply hours with tariff (R1 250)</p> <p>1A number of hours more than 5</p> <p style="text-align: right;">(3)</p>	F L2 M
4.1.1 (b)	<p><math>P = 4\ 000 \quad \checkmark A</math></p> <p><math>Q = 5\ 250 \quad \checkmark \checkmark A</math></p> <p><math>R = 9\ 000 \quad \checkmark A</math></p>	<p>1A value of P</p> <p>2A value of Q</p> <p>1A value of R</p> <p style="text-align: right;">(4)</p>	F L2 M
* 4.1.2 (a)	<p>Step graph / <i>Trapgrafiek</i>          Stepwise graph / <i>Stapgewyse grafiek</i> <math>\checkmark \checkmark A</math></p>	<p>2A correct name</p> <p style="text-align: right;">(2)</p>	D L1 E

Q/V	Solution/Oplissing	T&L
4.1.2 (b)	<p style="text-align: center;"><b>COMPARISON OF THE COST FOR DIFFERENT DJ'S</b></p> <p>Cost in rand</p> <p>Number of hours playing</p> <p>○ DJ 5-Star    — DJ Cool</p> <p><b>CA from 4.1.1 (b)</b>  1A starting point (0 ; 4 000)  1A (5 ; 4 000)  1A end point (9 ; 9 000)  1A joining ALL the points plotted on the slanted part of graph</p> <p><i>1A beginpunt (0 ; 4 000)</i>  <i>1A (5 ; 4 000)</i>  <i>1A eindpunt (9 ; 9 000)</i>  <i>1A verbind ALLE punte op die skuinsgedeelte van die grafiek</i></p> <p style="text-align: right;">(4)</p>	F L3 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 4.1.3	<p>Time / Tyd</p> <p><math>= 18:00 - 01:30</math>  <math>= 7 \text{ hrs } 30 \text{ min}</math>  <math>\approx 8 \text{ hrs}</math> } <math>\checkmark A</math></p> <p>Cost for DJ / <i>Koste vir platejoggie</i></p> <p><math>= 8 \times R1\,000 \checkmark MCA</math>  <math>= R8\,000 \checkmark CA</math></p> <p>Total cost / <i>Totale koste</i></p> <p><math>= R18\,000 + R750 + R6\,185 + R1\,250 + R8\,000 \checkmark MCA</math>  <math>= R34\,185 \checkmark CA</math></p>	<p>1A calculating hours</p> <p>1MCA multiply by R1 000 1CA simplification</p> <p>1MCA adding all values 1CA simplification</p> <p>(5)</p>	F L3 M
* 4.1.4	<p>He charges a flat/fixed rate, which is not economical if the party ends early. / <i>Hy vra 'n vaste tarief wat nie ekonomies is indien die partytjie vroeg eindig nie</i></p> <p><b>OR/OF</b> <math>\checkmark \checkmark O</math></p> <p>He has a bad reputation / <i>Hy het 'n slegte reputasie.</i></p>	<p>2O correct reason</p> <p>(2)</p>	F L4 E
4.2.1	<p>Probability / <i>Waarskynlikheid</i></p> <p><math>= \frac{4}{16} \checkmark A</math>  <math>= 0,25 \checkmark CA</math></p>	<p>1A numerator 1A denominator</p> <p>1CA simplification</p> <p>(3)</p>	P L2 D
* 4.2.2	<p>90 150 160 180 200 215 230 350 400 <math>\checkmark A</math></p> <p>Median / <i>Mediaan</i> = 200 <math>\checkmark \checkmark A</math></p>	<p>1A arranging</p> <p>2A median <b>AO</b></p> <p>(3)</p>	D L2 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.2.3	<p>Range 2022 / <i>Omvang 2022</i></p> <p>✓RT = 360 – 70 ✓MCA = 290 ✓CA</p> <p>Range 2023 / <i>Omvang 2023</i></p> <p>= 400 – 90 = 310 ✓A</p> <p>His statement is NOT VALID / <i>Sy bewering is NIE GELDIG NIE.</i> ✓O</p>	<p>1RT both correct values 1MCA concept of range 1CA simplification</p> <p>1A range</p> <p>1O conclusion</p> <p>(5)</p>	D L4 M
		[31]	

QUESTION/VRAAG 5 [31 MARKS/PUNTE]			
Q/V	Solution/Oplissing	Explanation/Verduideliking	T&L
5.1.1	Deficit / <i>Tekort</i> ✓✓A	2A correct word (2)	F L1 M
5.1.2	$\text{GST/AVB \%} = 100\% - (15\% + 15\% + 4\% + 7\% + 6\% + 2\% + 34\%) \checkmark\text{MA}$ $= 100\% - 83\%$ $= 17\% \checkmark\text{CA}$	1RT ALL correct values 1MA adding and subtracting  1CA simplification <b>AO</b> (3)	D L1 E
5.1.3	Defence / <i>Verdediging</i> $\checkmark\text{RT} \quad \checkmark\text{MA}$ $= 8\% \times 45,03 \text{ lakh crore}$ $= 3,6024 \text{ lakh crore} \checkmark\text{CA}$	1RT correct percentage 1MA multiply by 45,03  1CA simplification <b>NPR</b> <b>AO</b> (3)	D L2 M
* 5.1.4	Corporation tax / <i>Korporatiewe belasting</i> ✓RT Income tax / <i>Inkomstebelasting</i> ✓RT Customs / <i>Doeane</i> ✓RT  <b>OR/OF</b>  Corporation tax / <i>Korporatiewe belasting</i> ✓RT GST / <i>AVB</i> ✓RT Non Debt Capital Receipts / <i>Nie-skuldkapitaal ontvangstes</i> ✓RT  <b>OR/OF</b>  Income tax / <i>Inkomstebelasting</i> ✓RT GST / <i>AVB</i> ✓RT Non Debt Capital Receipts / <i>Nie-skuld kapitaal ontvangstes</i> ✓RT	<b>CA from 5.1.2 for GST</b> 1RT correct source 1RT correct source 1RT correct source adding to 34%  <b>OR/OF</b>  1RT correct source 1RT correct source 1RT correct source adding to 34%  <b>OR/OF</b>  1RT correct source 1RT correct source 1RT correct source adding to 34% (3)	D L2 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 5.1.5	<p>Interest payments / <i>Rentebetalings</i></p> <p>✓RT  <math>= 20\% \times 45,03 \text{ lakh crore}</math>  <math>= 9,006 \text{ lakh crore}</math> ✓A</p> <p>Unrounded / <i>Nie afgerond</i></p> <p><math>= 9,006 \times 100 \times 100\,000</math>  <math>= 90\,060\,000 \text{ rupees}</math> ✓C</p> <p>Rounded / <i>Afgerond</i></p> <p>✓R  <math>= 9 \times 100 \times 100\,000</math>  <math>= 90\,000\,000 \text{ rupees}</math></p> <p>Difference / <i>Verskil</i>  <math>= 90\,060\,000 - 90\,000\,000</math>  <math>= 60\,000 \text{ rupees}</math> ✓CA</p> <p>His statement is NOT VALID / <i>Sy bewering is NIE GELDIG NIE.</i> ✓O</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>Interest payments / <i>Rentebetalings</i></p> <p>✓RT  <math>= 20\% \times 45,03 \text{ lakh crore}</math>  <math>= 9,006 \text{ lakh crore}</math> ✓A</p> <p>Difference / <i>Verskil</i></p> <p>✓R  <math>9,006 - 9,000 = 0,006 \text{ lakh crore}</math> ✓CA</p> <p>Amount in rupees <math>= 0,006 \times 100 \times 100\,000</math>  <math>= 60\,000</math> ✓C</p> <p>His statement is NOT VALID / <i>Sy bewering is NIE GELDIG NIE.</i> ✓O</p>	<p>1RT both correct values</p> <p>1A simplification</p> <p>1C conversion</p> <p>1R rounded answer</p> <p>1CA difference</p> <p>1O conclusion</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>1RT both correct values 1A simplification</p> <p>1R rounded answer 1CA difference</p> <p>1C conversion</p> <p>1O conclusion</p> <p style="text-align: right;">(6)</p>	F L4 D
* 5.2.1	<p>Amount expressed in million/ <i>Bedrag uitgedruk in miljoen</i></p> <p><math>= \text{R}302,4 \text{ billion/miljard} \times 1\,000</math> ✓MA</p> <p><math>= \text{R}302\,400 \text{ million / miljoen}</math> <b>OR/OF</b> ✓A  <math>\text{R}302\,400\,000\,000</math></p>	<p>1 MA multiplying by 1 000</p> <p>1A simplification <b>AO</b></p> <p style="text-align: right;">(2)</p>	F L1 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.2.2	<p>R302 400 million = R302 400 × 44,479891 lakh ✓MA</p> <p>= 13 450 719,04 lakh ✓CA</p> <p>= 13 450 719,04 ÷ 100 ✓MCA</p> <p>= 134 507,1904 lakh crore ✓CA</p> <p><b>OR / OF</b></p> <p>R302 400 000 000 = <math>\frac{\text{R302 400 000 000}}{\text{R1 000 000}} \times 4\,447\,989,1</math> ✓MA</p> <p>✓CA ✓MCA</p> <p>= 1,345071904 × 1 000 000 000 000 ÷ 100 000 ÷ 100</p> <p>= 134 507,1904 lakh crore ✓CA</p> <p><b>OR / OF</b></p> <p>R1 000 000 = 0,44479891 lakh crore ✓C</p> <p>✓MA</p> <p>R302 400 000 000 = <math>\frac{302\,400\,000\,000 \times 0,44479891}{1\,000\,000}</math> ✓MCA</p> <p>= 134 507,1904 lakh crore ✓CA</p>	<p><b>CA from Question 5.2.1</b></p> <p>1MA multiplying by correct exchange rate</p> <p>1CA simplification</p> <p>1MCA dividing by 100</p> <p>1CA simplification</p> <p><b>OR / OF</b></p> <p>1MA multiplying by correct exchange rate</p> <p>1CA simplification</p> <p>1MCA ÷ 100 000 ÷ 100</p> <p>1CA simplification</p> <p><b>OR / OF</b></p> <p>1C ÷ 10 000 000</p> <p>1MA multiplying by correct exchange rate</p> <p>1MCA ÷ 1 000 000</p> <p>1CA simplification</p> <p><b>NPR</b></p> <p>(4)</p>	F L3 D
5.3.1	<p>✓O</p> <p>As the years increase the inflation rate increases / <i>Soos die jare toeneem, verhoog die inflasiekoers.</i></p> <p><b>OR/OF</b></p> <p>✓O ✓O</p> <p>The inflation rate increases from 2020 to 2024 / <i>Die inflasiekoers verhoog vanaf 2020 tot 2024.</i></p>	<p>1O years increase</p> <p>1O rate increases</p> <p><b>OR/OF</b></p> <p>1O rate increases</p> <p>1O years increase</p> <p>(2)</p>	D L4 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
* 5.3.2	<p>Price at the end of 2023 / Prys aan die einde van 2023</p> <p>✓A  <math>= 5\,000\,000 \div 1,08</math> ✓MA  <math>= 4\,629\,629,63</math> rupees ✓CA</p> <p>Price at end of 2022 / Prys aan die einde van 2022</p> <p>✓MCA  <math>= 4\,629\,629,63 \text{ rupees} \div 1,075</math> ✓MA  <math>= 4\,306\,632,214</math> rupees ✓CA</p> <p><b>OR/OF</b></p> <p>Price at the end of 2023 / Prys aan die einde van 2023</p> <p>✓A  <math>= 5\,000\,000 \times \frac{100}{108}</math> ✓MA  <math>= 4\,629\,629,63</math> rupees ✓CA</p> <p>Price at end of 2022 / Prys aan die einde van 2022</p> <p><math>= 4\,629\,629,63 \times \frac{100}{107,5}</math> ✓MCA  <math>= 4\,306\,632,214</math> rupees ✓CA</p> <p><b>OR/OF</b></p> <p>Price at end of 2022 / Prys aan die einde van 2022</p> <p>✓MA  <math>= 5\,000\,000 \times \frac{100}{108} \times \frac{100}{107,5}</math> ✓MA ✓CA  <math>= 4\,306\,632,214</math> rupees ✓CA</p>	<p>1A 1,08 or 108%  1MA dividing by 1,08 or 108%  1CA simplification</p> <p>1MCA 1,075 or 107,5%  1MA dividing by 1,075 or 107,5%  1CA simplification</p> <p><b>OR/OF</b></p> <p>1A <math>\frac{100}{108}</math>  1MA multiplying by <math>\frac{100}{108}</math>  1CA simplification</p> <p>1MCA <math>\frac{100}{107,5}</math>  1MA multiplying by <math>\frac{100}{107,5}</math>  1CA simplification</p> <p><b>OR/OF</b></p> <p>1A identifying 1,08 or 108%  1MA multiplying by <math>\frac{100}{108}</math>  1MCA identifying 1,075 or 107,5%  1MA multiplying by <math>\frac{100}{107,5}</math>  2CA simplification  NPU  NPR</p> <p>(6)</p>	F L3 D
		[31]	
		<b>TOTAL/TOTAAL: 150</b>	