
education
Department: Education NORTHERN CAPE


This question paper consists of $\mathbf{1 1}$ pages including $\mathbf{3}$ annexures.

## INSTRUCTIONS AND INFORMATION

1. $\cap$ This question paper consists of FOUR questions. Answer ALL the questions.
2. $\cap \cap$ Use the ANNEXURES to answer the following questions:

ดกด ANNEXURE A for QUESTION 1.1
ANNEXURE B for QUESTION 2.1
ANNEXURE C for QUESTION 4.1
3. Number the answers correctly according to the numbering system used in this question paper.
4. Start EACH question on a NEW page.
5. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
6. Show ALL calculations clearly.
7. Round off ALL final answers appropriately according to the given context, unless stated otherwise.
8. Indicate units of measurement, where applicable.
9. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
10. Write neatly and legibly.

## QUESTION 1

1.1 An extract of the bank statement of Ms Modise is given in ANNEXURE A. Some transactions have been omitted.

Use ANNEXURE A to answer the questions that follow.
1.1.1 Write down the account number of Ms Modise.
1.1.2 Write down Ms Modise's salary amount.
1.1.3 Explain the meaning of the additional information: (\# these fees are inclusive of VAT at 15\%)
1.1.4 Calculate the value of $\mathbf{A}$, the balance on $24 / 11$.
1.2 The number of learners enrolled at Mbare high school is given in the graph below.

NUMBER OF LEARNERS ENROLLED AT MBARE HIGH


Use the graph above to answer the questions that follow.
1.2.1 Name the graph used to represent the number of learners above.
1.2.2 Determine the number of girls in Grade (Gr) 8.
1.2.3 State whether the data in the graph are discrete or continuous data.
1.2.4 Name another graph that can be used to represent the data above.

## QUESTION 2

2.1 Kabo is a 66 year old manager, who earned an annual taxable income of R465 280 during the 2020/21 financial year.
He is a member of a medical aid and contributes monthly for him and his wife.
ANNEXURE B shows the personal income tax rates, tax rebates and tax thresholds for individuals for tax year 1 March 2020 to 28 February 2021.

Use ANNEXURE B to answer the questions that follow.
2.1.1 Define the term tax threshold.
2.1.2 Show that the tax threshold for Age 75 and older, R143 850, in the table is CORRECT.
2.1.3 Calculate Kabo's annual income tax payable.
2.2 Kabo is renting a townhouse in town.

TABLE 1 below shows the town's tariff structure for water consumption.
TABLE 1: MUNICIPAL TARIFF STRUCTURE

|  | Prepaid Water | $\begin{gathered} \text { 2019/20 } \\ \mathrm{c} / \mathrm{k} \ell \end{gathered}$ | $\begin{gathered} 2020 / 21 \\ c / k \ell \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Block 1 | $0-7 \mathrm{kl}$ | 856,35 | 868,95 |
| Block 2 | more than 7-13,5 k | 1089,28 | 1106,32 |
| Block 3 | more than $13,5-25 \mathrm{kl}$ | 1546,83 | 1579,74 |
| Block 4 | more than $25, \mathrm{kl}$ | 1825,10 | 1859,53 |

## All tariffs exclude 15\% VAT

2.2.1 Write the amount used for Block 3 in 2021 in rand and cent.
2.2.2 Define the term tariff in the given context.
2.2.3 Determine, to the nearest percentage, the increase in the price per $\mathrm{k} \ell$ for Block 4 from 2019/2020 to 2020/2021.

You may use the following formula:


Percentage increase $=\frac{2020 / 21 \text { price }-2019 / 20 \text { price }}{2019 / 20 \text { price }} \times \mathbf{1 0 0 \%}$
2.2.4 Kabo used $27 \mathrm{k} \ell$ of water in July 2019.

Determine the total amount payable, including VAT, for July 2019.

## QUESTION 3



Use the box-and-whisker plots above to answer the questions that follow.
3.1.1 Write down the difference between the highest and the lowest marks in Physical Sciences.
3.1.2 Determine the probability, as a percentage, of randomly selecting a learner who scored less than $77 \%$ in Physical Sciences.
3.1.3 Determine how many learners scored less than $30 \%$ in Mathematics.
3.1.4 Determine in which subject the learners performed better. Give a reason for your answer.

3.2 TABLE 2 shows the results for selected subjects in the 2023 NSC examinations.

TABLE 2: RESULTS FOR SELECTED SUBJECTS

| $0 \square 1$ | MATHEMATICAL LITERACY |  | MATHEMATICS |  | PHYSICAL SCIENCES |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PROVINCE |  |  |  |  |  |  |
| Eastern Cape | 50658 | 80,6 | 43021 | 57,4 | 31894 | 75,0 |
| Free State | 20223 | 89,7 | 12845 | 69,9 | 10339 | 80,2 |
| Gauteng | 84337 | 86,3 | 42773 | 69,1 | 32317 | 77,9 |
| Kwazulu-Natal | 96924 | 80,2 | 61162 | 64,2 | 47231 | 77,8 |
| Limpopo | 47435 | 83,1 | 44821 | 60,2 | 37458 | 77,1 |
| Mpumalanga | 37287 | 78,0 | 28019 | 58,0 | 25604 | 68,4 |
| North West | 28840 | 82,3 | 11126 | 66,7 | B | 76,4 |
| Northern Cape | 9837 | 75,4 | 2725 | 57,0 | 2075 | 67,2 |
| Western Cape | 46294 | 82,4 | 15524 | 75,4 | 10082 | 82,2 |
| NATIONAL | 421835 | 82,3 | 262016 | 63,5 | ----- | 76,2 |

[Adapted from NSC 2023 school subject report]
Use TABLE 2 and the information above to answer the questions that follow.
3.2.1 Write down the number of provinces that performed below the national average pass percentage in Mathematical Literacy.
3.2.2 Write down the modal pass percentage for Mathematical Literacy.
3.2.3 Write the number of learners who wrote Mathematics in the Western Cape as a percentage of the total number of learners who wrote Mathematics.
3.2.4 Calculate the median percentage of learners that achieved $30 \%$ and above in Physical Sciences.
3.2.5 The average number of learners who wrote Physical Sciences in 2023 was 22933.

Calculate, B, the number of learners that wrote Physical Sciences in North West.

## QUESTION 4

4.1 Lebogang owns his own bakery trading as Lebs' Freshly Baked Pty Ltd. The bread is only sold in dozens.
ANNEXURE C shows the graph of the relationship of his total cost and income per week.

Use ANNEXURE C and the information above to answer the questions that follow.
4.1.1 Determine the number of dozens he must sell before he starts making profit.
4.1.2 Use the graph to write a formulae that can be used to calculate the total cost.
4.1.3 Lebogang claimed that he will make more than R8 000 profit if he sells 200 dozen.
Verify, showing ALL calculations, whether his claim is valid.
4.2 Lebogang realized that his business was growing and he decided to buy a delivery vehicle.
He has two options to finance the vehicle as shown in TABLE 3 below.
TABLE 3: TWO OPTIONS TO PURCHASE THE VEHICLE


Use TABLE 3 above to answer the questions that follow.
4.2.1 Calculate the deposit amount for Option 2.
4.2.2 Compare the cost of the two options.

Advice Lebogang on which option is better for him.
 Show all your calculations.
4.3 TABLE 4 below shows the annual sales for Lebs' Freshly Baked Pty Ltd. in 2020 and 2021.

TABLE 4: MONTHLY SALES IN THOUSANDS

| MONTH | YEAR |  |
| :--- | :---: | :---: |
|  | 2020 | 2021 |
|  | SALES (000) | SALES (000) |
| January | 890 | 1245 |
| February | 892 | 1350 |
| March | 905 | 1452 |
| April | 910 | 1568 |
| May | 920 | 1652 |
| June | 938 | 1712 |
| July | 945 | 1720 |
| August | 955 | 1800 |
| September | 977 | 1881 |
| October | 980 | 1901 |
| November | 1000 | 1950 |
| December | 1150 | 2145 |
| [Adapted from www.smallbusinesssite.co.za] |  |  |

NOTE: Sales were increasing yearly from January up until December.
Use TABLE 4 above to answer the questions that follow.
4.3.1 Determine the probability, as a simplified fraction, of randomly selecting a month with less than R1 000000 total sales in 2020.
4.3.2 The Inter Quartile Range (IQR) for the sales in October 2021 is R381 000. Quartile 1 (Q1) is R1 510000.

Lebogang stated that the value of Quartile 3 is R1 891000.
Verify, showing ALL calculations, whether his statement is correct.
You may use the following formula:

$$
\mathbf{I Q R}=\mathbf{Q} 3-\mathbf{Q} 1
$$

## ANNEXURE A

QUESTION 1.1
BANK ACCOUNT STATEMENT OF MS MODISE

[Adapted from www.standardbank.com]

## ANNEXURE B

QUESTION 2.1

PERSONAL INCOME TAX RATES, TAX REBATES AND TAX
THRESHOLDS FOR 2020/2021 (MARCH 2020-28 FEBRUARY 2021)
TAX RATES 2020/2021

| TAXABLE INCOME (R) | RATES OF TAX (R) |
| :--- | :--- |
| $1-205900$ | $18 \%$ of taxable income |
| $205901-321600$ | $37062+26 \%$ of taxable income above 205900 |
| $321601-445100$ | $67144+31 \%$ of taxable income above 321600 |
| $445101-584200$ | $105429+36 \%$ of taxable income above 445100 |
| $584201-744800$ | $155505+39 \%$ of taxable income above 584200 |
| $744801-1577300$ | $218139+41 \%$ of taxable income above 744800 |
| 1577301 and above | $559464+45 \%$ of taxable income above 1577300 |

TAX REBATES 2020/2021

| Primary (below 65) | R14 958 |
| :--- | :--- |
| Secondary (65 and older) | R8 199 |
| Tertiary (75 and older) | R2 736 |

TAX THRESHOLDS 2020/2021

| Below age 65 | R83 100 |
| :--- | :--- |
| Age 65 to age 74 | R128 650 |
| Age 75 and older | R143 850 |

MONTHLY MEDICAL AID TAX CREDITS

| Main member | R319 |
| :--- | :--- |
| First dependant | R319 |
| Each additional dependant | R215 |



## ANNEXURE C

## QUESTION 4.1



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MARKS/PUNTE: 100

| Symbol/Kode | Explanation/Verduideliking |
| :---: | :--- |
| $\mathbf{M A}$ | Method with accuracy/Metode met akkuraatheid |
| $\mathbf{C A}$ | Consistent accuracy/Volgehoueakkuraatheid |
| $\mathbf{A}$ | Accuracy/Akkuraatheid |
| $\mathbf{C}$ | Conversion/Herleiding |
| $\mathbf{S}$ | Simplification/Vereenvoudiging |
| $\mathbf{R T}$ | Reading from a table/graph/document/diagram/Lees <br> vanaftabel/grafiek/document/diagram |
| $\mathbf{S F}$ | Correct substitution in a formula/Korrektevervanging in 'n formule |
| $\mathbf{O}$ | Opinion/Explanation/Opinie/Verduideliking |
| $\mathbf{P}$ | Penalty, e.g. for no units, incorrect rounding off, etc./Penalisasie, bv. virgeeneenhede, <br> verkeerdeafronding, ens. |
| $\mathbf{R}$ | Rounding off/Afronding |
| $\mathbf{N P R}$ | No penalty for rounding/Geenpenalisasievirafrondingnie |
| $\mathbf{A O}$ | Answer only/Slegs antwoord |
| $\mathbf{M C A}$ | Method with constant accuracy/Metode met volgehoueakkuraatheid |

These marking guidelines consist of 10 pages including 1 page of notes. Hierdie nasienriglyne bestaan uit 10 bladsye insluitende 1 bladsy met 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 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 given if relevant calculations precedes it (at least 1 mark before conclusion).
- 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 dit voorgaan (ten minste een punt voor die gevolgtrekking).
- Geen penalisering vir ronding (NPR) as die eerste desimaal korrek is nie, behalwe as vrae geld insluit.

| QUESTION/VRAAG 1 [18 MARKS/PUNTE] |  | ANSWER ONLY = FULL MARKS |  |
| :---: | :---: | :---: | :---: |
| Q/V | Solution/Oplossing | Explanation/Verduideliking | T\&L |
| 1.1.1 | $043052542 \quad \checkmark \checkmark \mathrm{~A}$ | 2A account number (2) | $\begin{aligned} & \hline \text { F } \\ & \text { L1 } \end{aligned}$ |
| 1.1.2 | R37 150,23 $\checkmark \checkmark$ RT | 2RT correct amount | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{~L} 1 \end{aligned}$ |
| 1.1.3 | $15 \%$ VAT is already included in the amount show on the statement / $15 \%$ BTW is reeds ingesluit by die bedrag wat op die staat verskyn. $\checkmark \checkmark \mathrm{A}$ | 2A correct explanation | $\begin{aligned} & \hline \text { F } \\ & \text { L1 } \end{aligned}$ |
| 1.1.4 | $\begin{aligned} & \text { Value of A / Waarde van A } \\ & \quad \checkmark \mathrm{RT} \\ & =-\mathrm{R} 6493,01-\mathrm{R} 85,00 \quad \checkmark \mathrm{MA} \\ & =-\mathrm{R} 6578,01 \checkmark \mathrm{CA} \\ & \quad \text { OR } / \boldsymbol{O F} \\ & \quad \checkmark \mathrm{RT} \quad \text { RT } \\ & =\text { R30 572,22-R37 150,23 } \checkmark \mathrm{MA} \\ & =-\mathrm{R} 6578,01 \quad \checkmark \mathrm{CA} \end{aligned}$ | 1 RT correct value $=-\mathrm{R} 6493,01$ 1MA subtracting R85,00 1CA simplification <br> OR / OF <br> 1 RT correct value $=$ R30 572,22 <br> 1MA subtracting R37 150,23 <br> 1CA simplification <br> If amount positive $=2 / 3$ marks | $\begin{aligned} & \hline \text { F } \\ & \text { L1 } \end{aligned}$ |


| Q/V | Solution/Oplossing | Explanation/Verduideliking | T\&L |
| :--- | :--- | :--- | :--- |
| 1.2.1 | Compound (stacked) bar graph / Saamgestelde <br> (gestapelde) staafgrafiek $\checkmark \checkmark \mathrm{A}$ | 2A correct graph | (2) |



| QUESTION/VRAAG 2 [28 MARKS/PUNTE] |  |  |  |
| :---: | :---: | :---: | :---: |
| Q/V | Solution/Oplossing | Explanation/Verduideliking | T\&L |
| * <br> 2.1.1 | The amount you can earn (or less) without paying income tax / Die bedrag wat jy kan verdien (of minder) sonder om inkomstebelasting te betaal. $\checkmark \checkmark \mathrm{A}$ | 2A explanation | $\begin{aligned} & \hline \text { F } \\ & \text { L1 } \end{aligned}$ |
| 2.1.2 |  | 1 RT all 3 correct values 1MA adding correct values 1MCA simplification <br> 1MCA dividing by $18 \%$ <br> OR/OF <br> 1MCA dividing by $18 \%$ <br> 1MCA simplification <br> 1 RT correct values <br> 1MA subtracting values | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{~L} 3 \end{aligned}$ |
| 2.1.3 | Annual tax payable / Jaarlikse belasting betaalbaar $\begin{aligned} & \quad \checkmark \mathrm{A} \\ & =\text { R105 429 }+36 \%(\text { R465 280-R445 100 }) \\ & =\text { R105 429 }+36 \%(\text { R20 180 }) \checkmark \text { S } \\ & =\text { R105 429 + R7 264,80 } \\ & =\text { R112 693,80 } \checkmark \text { CA } \\ & =\text { R112 693,80 moreph } \checkmark \text { (R14 958 + R8 199) } \\ & =\text { R89 536,80 } \checkmark \text { CA } \\ & =\text { R89 536,80 - [(R319 + R319) } \times 12] \\ & =\text { R89 536,80 - R7 656,00 } \checkmark \text { MA } \\ & =\text { R81 880,80 } \checkmark \text { CA } \end{aligned}$ | 1A correct bracket <br> 1S simplification <br> 1CA tax before rebates 1 M subtracting the both rebates 1CA simplification <br> 1MA subtracting medical credits 1CA simplification | $\begin{aligned} & \hline \text { F } \\ & \text { L3 } \end{aligned}$ |


| Q/V | Solution/Oplossing | Explanation/Verduideliking | T\&L |
| :---: | :---: | :---: | :---: |
| 2.2.1 | $\begin{aligned} & =1579,74 \div 100 \checkmark \mathrm{MA} \\ & =\mathrm{R} 15,7974 \\ & =\mathrm{R} 15,80 \quad \checkmark \mathrm{~A} \end{aligned}$ | 1MA dividing by 100 <br> 1A simplification <br> AO <br> (2) | $\begin{aligned} & \hline \text { F } \\ & \text { L1 } \end{aligned}$ |
| $2.2 .2$ | Amount paid for a single (per) $\underline{\mathrm{k} \ell}$ used / Bedrag betaal vir 'n enkele (per) kl gebruik. $\checkmark \checkmark \mathrm{A}$ | 2A explanation | $\begin{aligned} & \hline \text { F } \\ & \text { L1 } \end{aligned}$ |
| 2.2.3 | $\begin{align*} & \text { Percentage increase }=\frac{1859,53-1825,10}{1825,10} \times 100 \%  \tag{2}\\ & =1,886471974 \% \checkmark \mathrm{MA} \\ & =2 \% \checkmark \mathrm{CA} \end{align*}$ | 1MA subtracting values 1A denominator 1MA percentage calculation 1CA simplification 1R correct rounding | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{~L} 2 \end{aligned}$ |
| 2.2.4 | Amount excluding VAT / Bedrag BTW uitgesluit | 1MA multiplying with correct tariff (any 1) 1A simplification <br> 1MA adding values 1CA VAT exclusive cost <br> 1MA adding VAT <br> 1CA simplification with unit | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{~L} 3 \end{aligned}$ |
|  |  | [28] |  |


| QUESTION/VRAAG 3 [27 MARKS/PUNTE] |  |  |  |
| :---: | :---: | :---: | :---: |
| Q/V | Solution/Oplossing | Explanation/Verduideliking | T\&L |
| * <br> 3.1.1 | $\begin{aligned} & \checkmark \mathrm{RT} \\ &= 92 \%-50 \% \quad \checkmark \mathrm{MA} \\ &= 42 \% \\ & \mathrm{CA} \end{aligned}$ | 1RT correct value (92\%) 1MA subtracting $50 \%$ <br> 1CA simplification NPU | $\begin{array}{\|l\|} \hline \text { D } \\ \text { L1 } \end{array}$ |
| 3.1.2 | Probability / Waarskynlikheid $\begin{aligned} & 77 \% \rightarrow \mathrm{Q} 3 \checkmark \mathrm{RT} \\ & =75 \% \checkmark \mathrm{~A} \end{aligned}$ | 1RT identifying Q3 $\begin{aligned} & \text { 1A } 75 \% \\ & \text { AO } \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{P} \\ \mathrm{~L} 2 \end{array}$ |
| 3.1.3 | $\begin{aligned} & 30 \% \rightarrow \mathrm{Q} 1 \\ & \checkmark \mathrm{RT} \\ & 25 \% \times 40 \text { learners } \checkmark \mathrm{MA} \\ & =10 \text { learners / leerders } \checkmark \mathrm{CA} \end{aligned}$ | 1RT identifying Q1 (25\%) <br> 1MA multiply with 40 <br> 1CA learners $\qquad$ | $\begin{array}{\|l\|} \hline \text { D }  \tag{2}\\ \text { L3 } \end{array}$ |
| 3.1.4 | Physical Sciences / Fisiese Wetenskappe $\checkmark \mathrm{A}$ <br> 30 learners scored more than $56 \%$ compared to 10 learners in Mathematics / 30 leerders het meer as $56 \%$ behaal in vergelyking met met 10 leerders in Wiskunde. $\text { OR/OF } \quad \checkmark \checkmark \mathrm{O}$ <br> 20 learners in Physical sciences scored more than 66\% none learners scored more than $66 \%$ in in Mathematics / 20 leerders in Fisiese Wetenskappe het meer as $66 \%$ behaal, geen leerders het meer as $66 \%$ in Wiskunde behaal nie. | 1A correct subject <br> 2 O comparison | $\begin{array}{\|l\|} \hline \mathrm{D} \\ \mathrm{~L} 4 \end{array}$ |
| * ${ }^{\text {* }}$ 3.2.1 | $4 \checkmark \checkmark$ RT | 2RT number of provinces | $\begin{array}{\|l\|} \hline \mathrm{D} \\ \mathrm{~L} 1 \end{array}$ |
| 3.2.2 | No mode / Geen modus $\checkmark \checkmark$ A | 2A no mode <br> (2) | $\begin{array}{\|l\|} \hline \mathrm{D} \\ \mathrm{~L} 2 \end{array}$ |


| Q/V | Solution/Oplossing | Explanation/Verduideliking | T\&L |
| :---: | :---: | :---: | :---: |
| 3.2.3 | Percentage / Persentasie $\begin{aligned} & \checkmark \mathrm{RT} \\ & \frac{15524}{262016} \times 100 \% \checkmark \mathrm{MA} \\ & \checkmark \mathrm{RT} \\ = & 5,924829018 \\ = & 5,9 \% \checkmark \mathrm{CA} \end{aligned}$ | 1RT correct value <br> 1RT correct value <br> 1MA percentage calculation <br> 1CA simplification | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{~L} 2 \end{aligned}$ |
| 3.2.4 | $67,268,475,0 \quad 76,477,177,8 \quad 77,9 \quad 80,2 \quad 82,2 \checkmark \mathrm{MA}$ $\text { Median } / \text { Mediaan }=77,1 \% \quad \checkmark \checkmark \mathrm{~A}$ | 1MA arranging <br> 2A correct median <br> AO <br> (3) | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{~L} 2 \end{aligned}$ |
| 3.2.5 |  | 1MA adding all values <br> 1MA concept of mean <br> 1MA multiplying by 9 <br> 1MA changing the subject of the formula <br> 1CA simplification <br> OR / OF <br> 1MA adding all values <br> 1MA concept of mean <br> 1MA multiplying by 9 <br> 1MA changing the subject of the formula <br> 1CA simplification | $\begin{aligned} & \hline \text { D } \\ & \text { L3 } \end{aligned}$ |
|  |  | [27] |  |


| QUESTION/VRAAG 4 [27 MARKS/PUNTE] |  |  |  |
| :---: | :---: | :---: | :---: |
| Q/V | Solution/Oplossing | Explanation/Verduideliking | T\&L |
| 4.1.1 | 50 dozen / dosyn $\quad \checkmark \checkmark \mathrm{RT}$ | 2RT break-even point (2) | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{~L} 2 \end{aligned}$ |
| 4.1 .2 | Fixed cost / Vaste koste $=$ R3 000 $\left.\begin{array}{rl} \text { Variable cost } & =\frac{6000-3000}{50} \quad \checkmark \mathrm{MA} \\ & =\mathrm{R} 60 \checkmark \mathrm{~A} \\ \checkmark \mathrm{~A} \end{array}\right] \begin{aligned} \text { Total cost }= & \mathrm{R} 3000+\mathrm{R} 60 \times \text { number of dozens } \checkmark \mathrm{A} \\ \text { Totale } \text { koste } & =\text { R3000 } \mathrm{R} 60 \times \text { a antal dosyn } \end{aligned}$ | 1MA calculating unit price <br> 1A variable cost <br> 1A fixed cost <br> $1 \mathrm{~A} \times$ number of dozens | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{~L} 2 \end{aligned}$ |
| 4.1.3 | Income / Inkomste $\begin{aligned} & =\mathrm{R} 120 \times 200 \checkmark \mathrm{MA} \\ & =\mathrm{R} 24000 \checkmark \mathrm{~A} \end{aligned}$ <br> Total cost / Totale koste $\begin{aligned} & =\text { R3 } 000+(\mathrm{R} 60 \times 200) \checkmark \mathrm{MA} \\ & =\text { R15 } 000 \checkmark \mathrm{MCA} \end{aligned}$ <br> Profit / Wins $\begin{aligned} & =\text { R24 } 000-\text { R15 } 000 \\ & =\text { R9 } 000 \checkmark \text { CA } \end{aligned}$ <br> His claim is VALID / Sy bewering is GELDIG. $\checkmark \mathrm{O}$ | CA from Question 4.1.2 <br> 1MA multiplying with R120 1A simplification <br> 1MA multiplying and adding 1MCA simplification <br> 1CA profit <br> 10 conclusion | $\begin{array}{\|l\|} \hline \text { F } \\ \text { L4 } \end{array}$ |
| 4.2.1 | $\begin{aligned} & \text { Deposit / Deposito } \\ & =20 \% \times \mathrm{R} 450000 \checkmark \mathrm{MA} \\ & =\mathrm{R} 90000 \checkmark \mathrm{~A} \end{aligned}$ | 1MA calculating 20\% <br> 1A simplification <br> AO $\square$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{~L} 1 \end{aligned}$ |



| NOTES: |  |  |
| :---: | :---: | :---: |
| QUESTION 1 |  |  |
| 1.1.4 | Value of A / Waarde van A $\begin{aligned} & \checkmark \mathrm{RT} \quad \checkmark \mathrm{MA} \\ &= \mathrm{R} 6493,01+\mathrm{R} 85,00 \\ &= \mathrm{R} 6578,01 \\ & \hline \end{aligned}$ | 2/3 marks |
|  |  | 2/3 marks |
| QUESTION 2 |  |  |
| 2.1.1 | Amount were you are excused to pay tax. Amount were you are not going to pay tax. | 2/2 marks |
| 2.2.2 | Amount paid for a single (per) unit used / Bedrag betaal vir 'n enkele (per) eenheid gebruik. | 1/2 marks |
| 2.2.4 | Accept: 39 691c |  |
|  | $\begin{aligned} & 7 \times \mathrm{R} 9,848025=\mathrm{R} 68,936175 \\ & 6,5 \times \mathrm{R} 12,52672=\mathrm{R} 81,42368 \\ & 11,5 \times \mathrm{R} 17,788545=\mathrm{R} 204,5682675 \\ & 2 \quad \times \mathrm{R} 20,98865=\mathrm{R} 41,9773 \end{aligned}$ <br> Total including VAT $\begin{aligned} & =\mathrm{R} 396,9054225 \\ & =\mathrm{R} 396,91 \end{aligned}$ | 6/6 marks |
| QUESTION 3 |  |  |
| 3.1.1 | $\begin{aligned} & \text { Accept: } \\ & =92-50 \\ & =42 \end{aligned}$ | 3/3 marks |
| 3.1.4 | Accept: <br> The Physical Sciences marks are higher than the Mathematics marks. <br> All the learners passed Physical Sciences, but 10 learners (25\%) did not pass Mathematics. <br> The median mark for Physical Sciences ( $66 \%$ ) is higher than the median mark of Mathematics (44\%) |  |
| 3.2.1 | Name of Province: <br> EC, KZN, MP and NC | 1/2 marks |
| 3.2.2 | Accept: 82,3 (n) | 2/2 marks |
| 3.2.4 | 67,2 68,4 75, $0 \quad 76,2$, 76, 477,1 77, $877,9 \quad 80,2 \quad 82,2 \checkmark \mathrm{MA}$ <br> Median $/$ Mediaan $=76,75 \% \quad \checkmark \mathrm{~A}$ | 2/3 marks |

