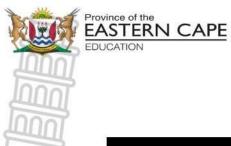
Downloaded from Stanmorephysics com



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NATIONAL SENIOR CERTIFICATE

GRADE 12

SEPTEMBER 2024

MATHEMATICAL LITERACY P1

MARKS: 150

TIME: 3 hours



This question paper consists of 16 pages, including 2 answer sheets and 2 annexures.

INSTRUCTIONS AND INFORMATION

- 1. The question paper consists of FIVE questions. Answer ALL the questions.
- 2. Use the ANNEXURES in the ADDEDUM included in the QUESTION PAPER to answer the following questions:

ANNEXURE A for QUESTION 1.1 ANNEXURE B for QUESTION 2.1

- 3. Answer QUESTION 3.2.3 and 4.1.2 on the answer sheets provided. Write your name and surname in the space provided in the ANSWER SHEET and hand in the ANSWER SHEETS with your ANSWER BOOK.
- 4. Start EACH question on a NEW page.
- Number the answers correctly according to the numbering system used in this question paper.
- 6. You may use a non-programmable calculator.
- 7. You may use appropriate mathematical instruments.
- 8. Show ALL formulae and substitutions in ALL calculations.
- 9. Round off ALL final answers according to the context used, unless stated otherwise.
- 10. Write neatly and legibly.



QUESTION 1

1.1 Use ANNEXURE A to answer the following questions.

1.1.1 Calculate the value of **A**. (2)

1.1.2 Define the term *opening balance*. (2)

1.1.3 Show how the income of R6 602,70 was calculated. (2)

1.1.4 Calculate the value of \mathbf{B} . (2)

1.1.5 Write the total expenditure in words. (2)

1.1.6 Determine the difference between the maximum and minimum October expenditure. (3)

1.2 The Matric Dance Fundraising Committee bought 4 boxes of pens and sold each pen at R5,00 each.



1.2.1 Calculate the cost of one black pen. (2)

1.2.2 Determine the profit made on one black pen. (2)

1.2.3 Calculate the number of pens that were sold during the fundraising. (2)

1.2.4 Determine the percentage profit from selling one black pen. (2)

1.2.5 Determine the probability of randomly selecting a red pen in one of the boxes that have been bought. (2)

1.3 Mrs Jones bought a bomber jacket on 24 November 2023, on Black Friday. The cost of the bomber jacket is shown below.



BOYS BOMBER JACKET

Was: R499,00 (VAT incl.)

Now: R336,75

1.3.1 Which day of the week is Black Friday?

- (2)
- 1.3.2 Determine the percentage discount that was offered on the bomber jacket.
- 1.3.3 Determine what the VAT exclusive price of the bomber jacket was.

(2) [**30**]

(3)



QUESTION 2

Pie Sese received her employee income tax certificate information for the financial year ending 2023/02. This information is on ANNEXURE B. Some information has been omitted. Use ANNEXURE B to answer the questions that follow. 2.1.1 Write down the annual taxable payment amount that Pie Sese received. (2) Calculate the monthly medical aid tax credit fees. 2.1.2(2)Pie contributed 36,5% to her pension fund from 1 March 2023 to 30 September 2023. Determine the average monthly contribution for the remainder of the financial year. (5) Joy needs a laptop, which costs R5 999,00. She asked for the money from her sister who lives in the United States of America. The exchange rate was as follow: R1 = 0.05 US dollar. 2.2.1 Explain the term exchange rate. (2) 2.2.2 Was the ZAR stronger or weaker against the US dollar? (2) 2.2.3 Joy's sister gave her 300 US dollars to buy a new laptop. She stated that the money would be enough to purchase the laptop. Verify, showing ALL calculations, if Joy's sister is correct. (3)Mrs Teddy went to check the maturity value towards her retirement annuity, as she will be turning 55 in 4 months' time. She expects to receive her lump sum when she turns 55. The sales lady informed her that the maturity value is R334 159, and she will receive ¹/₃

of this lump sum. This is because as from 2017 South African law stated that if a lump sum exceeded R247 500, a person will receive $\frac{1}{3}$ of the total lump sum and thereafter will receive equal instalments.

Mrs Teddy decided to invest the 1/3 of her lump sum at 9% p.a. compounded half yearly for 2 years.

2.3.1 Calculate the amount Mrs Teddy will receive when she turns 55 years old. (3)

2.3.2 Mrs Teddy says that the interest she will receive after 2 years is R24 500. Verify, showing ALL calculations, that her statement is valid. (8)

2.4 Mr Walker, the owner of Ray Restaurant, wants to install Wi-fi as part of increasing the business. He received two options to choose from. The options are shown in the table below:

TABLE 1: BUSINESS INTERNET OPTIONS

| BUSINESS INTERNET LTE | 24 MONTHS CONTRACT | SAVINGS |
|-----------------------|--------------------|-------------|
| 10 Mbps | R299 pm | Save R3 600 |
| 20 Mbps | R399 pm | Save R6 000 |

| BUSINESS INTERNI FIBRE-OPTIC | 24 MONTHS CONTRACT | SAVINGS |
|---------------------------------|--------------------|-------------|
| 20 Mbps | R549 pm | Save R2 400 |
| 50 Mbps | R749 pm | Save R2 400 |



Mbps - Megabits per second

Mr Walker wants to buy 40 Mbps. The sales representative offered him the following options:

- Buying FOUR 10 Mbps LTE
- Buying TWO 20 Mbps LTE

He found out that it's cheaper to buy 50 Mbps fibre-optic than it is to buy 40 Mbps LTE. Verify, by means of calculations, if Mr Walker's statement is valid.

(8)

[35]

QUESTION 3

3.1 The Minister of Basic Education in her address stated that, there has been a significant improvement in the performance of all subjects, EXCEPT a few.

TABLE 2 below represents the subjects with high enrolment. Improvement was noted in all subjects, EXCEPT History and Mathematical Literacy.

TABLE 2: COMPARISON OF PERFORMANCE IN SUBJECTS 2022 AND 2023

| SUBJECT DISCRIPTION | 2022 | 2023 | DIFFERENCE IN PERCENTAGE FROM 2022 TO 2023 |
|-----------------------|-------|-------|--|
| Accounting | 75,4% | 76,9% | 1,5% |
| Agricultural Sciences | 75,8% | 80,5% | 4,7% |
| Business studies | 76,7% | 81,8% | 5,1% |
| Economics | 71,5% | В | 3,0% |
| Geography | 81,3% | 86,2% | 4,9% |
| History | 88,2% | 87,7% | -0,5% |
| Life Sciences | 71,5% | 75,6% | 4,1% |
| Mathematical Literacy | 85,7% | 82,3% | A |
| Mathematics | 55,0% | 63,5% | 8,5% |
| Physical Sciences | 74,6% | 76,2% | 1,6% |

Use the table above to answer the questions that follow.

- 3.1.1 Calculate the value of **A**. (2)
- 3.1.2 Which subject has the largest percentage decrease between 2022 and 2023? (2)
- 3.1.3 Calculate the range of the differences in percentages. (4)
- 3.1.4 The mean percentage of the 2023 performance in all the subjects is 78,52%.

 Determine the value of **B** using all 10 subjects. (4)
- 3.1.5 Write the probability of randomly selecting a subject(s) with a decrease in percentage, as a decimal. (3)

3.2 The table below represents the scores for the 2023 Rugby World Cup quarter-finals, semi-finals and final.

TABLE 3: 2023 RUGBY WORLD CUP QUARTER-FINAL, SEMI-FINAL AND FINAL SCORES

| QUARTER-FINALS | | SEMI-FI | NALS | FINAL | | |
|----------------------|-------------------|---------|--------------|--------|---------|--------|
| GAMES | TEAMS | SCORES | TEAMS | SCORES | TEAMS | SCORES |
| 1st game | Wales | 17 | Argentina | 6 | | |
| | VS | | | | New | |
| | Argentina | 29 | vs | | Zealand | 11 |
| 2 nd game | Ireland | 24 | New Zealand | 44 | vs | |
| Stanmore | vs physics com | 20 | | | | |
| | INEW | 28 | | | | |
| | Zealand | | | | | |
| | | | | | A | 12 |
| 3 rd game | England vs | 30 | England | 15 | | |
| | Fiji | 24 | vs | | | |
| 4 th game | France | 28 | South Africa | 16 | | |
| | VS | | | | | |
| | South | | | | | |
| | Africa | 29 | | | | |

Use the table above to answer the questions that follow.

- 3.2.1 Which team is represented by **A** in the FINAL game? (2)
- 3.2.2 Identify the team with the highest score in the semi-final games. (2)
- 3.2.3 Draw a double bar graph for the scores in the quarter-finals on ANSWER SHEET 1 provided. (6)
- 3.2.4 Identify the modal score in the semi-finals. (2) [27]

QUESTION 4

4.1 Mrs Shield wants to start an internet café as a small business. She wants to start by printing school magazines that will need colour printing for pictures of school events. She wants to hire a photocopy machine, and approached two shops that sells office equipment. At Umlazi Office Equipment she saw a big Olivetti d-MF2555 photocopier machine. At Queens Shop she saw the Canon MG 2500 series printer.



The offers for renting the machines are given below:

| RENT OFFER 1: Umlazi Office Equipment | RENT OFFER 2: Queens Shop |
|--|---|
| RENTAL : R450,00 per month ➤ R0,12c excl. VAT per black print | RENTAL: R350,00 per month ➤ R0,20 per black print |
| > R0, 70c incl. VAT per colour print | ➤ R0,90 per colour print |
| Includes: Toners, service, spares, transport and labour. | Includes: Service of the machine, toners, spares, transport and labour. |

- 4.1.1 Define the term *variable cost* in the given context. (2)
- 4.1.2 Write down the equations for colour printing for both companies. (4)
- 4.1.3 Complete the table and DRAW a line graph for both options on ANSWER SHEET 2, using the cost equation in QUESTION 4.1.2. (9)
- 4.1.4 How many copies must be printed for the two companies to have the same cost? (2)
- 4.1.5 Which company should Mrs Shield rent the photocopying machine from? (2)

4.2 TABLE 4 below represents the results of Primary School Field Events. Primary Schools took part in the regional 2024 competition.

TABLE 4: FIELD EVENTS RESULTS FOR PRIMARY SCHOOL

| GENDER | | ВО | YS | | | GI | RLS | |
|--------------|-------------|-------------|-------------|-------------|--------------------|------------------|-------------|-------------|
| EVENTS . | 10 years | 11 years | 12 years | 13 years | 10 years | 11 years | 12 years | 13 years |
| SHOT PUT | 9,00 m | 11,30 m | 11,00 m | 11,50 m | 8,00 m | 9,70 m | 9,60 m | 10,20 m |
| HIGH JUMP | 1,24 m | 1,34 m | 1,48 m | 1,54 m | 1,18 m | 1,30 m | 1,40 m | 1,48 m |
| LONG JUMP | 4,10 m | 4,50 m | 4,80 m | 5,20 m | orephysi 3,80 m | 25.com 4,10 m | 4,40 m | 4,60 m |

- 4.2.1 Explain, with justification, whether the data is discrete or continuous? (3)
- 4.2.2 Which age group has the highest results? (2)
- 4.2.3 Explain why the results for the high jump event is lower than the results of the shot put and long jump events. (3)
- 4.2.4 The range for all ages in the long jump events suggests that the results are grouped closer to the median. Verify, by showing ALL calculations, whether the statement is correct.

(6) [**33**]



QUESTION 5

5.1 The water account Mrs Wales received from Ndondo Municipality is provided below.

TABLE 5: MRS WALES' WATER ACCOUNT

| The Ndondo Municipality | Private bag X1937 |
|-------------------------|--------------------|
| | Tel: (011) 2328910 |

| Street address | Client Name | Invoice Number |
|--------------------|-------------|----------------|
| 6 Edenvale Flat | Mrs L Wales | AVE-40103652 |

| Date | Consumption Details | Charge (in Rands) | VAT (15%) | Grand Total Due |
|------------|---------------------|-------------------|--------------|--------------------|
| 15/12/2023 | 32 kl | 92•.• • | | |

| Kilolitres | Tariff (per k ℓ) (VAT exclusive) |
|------------------------|---|
| 0–6 k ł | R18,12/kℓ |
| 7–15 k l | R29,26/k l |
| 16–30 k l | R36,58/k l |
| 31+ kℓ | R45,52/kl |
| Sanitation (excl. vat) | R59,96 |

Previous consumption statistics:

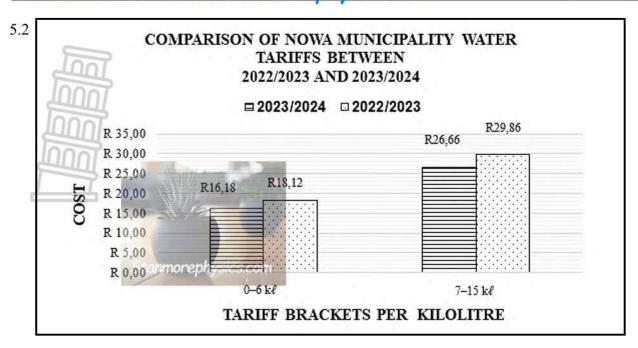
| SEP | OCT | NOV |
|-------|-------|-------|
| 30 kl | 34 kl | 36 kl |

5.1.1 Calculate the amount charged for water, including VAT, that Mrs Wales used in December.

(8)

5.1.2 Calculate the median tariffs per kilolitre.

(3)



Which tariff bracket had a higher percentage increase when Nowa municipality increased the water tariffs from 2022/2023 to 2023/2024?

(7)

5.3 The Consolidated Government expenditure by function for 2023/2024 and 2024/2025 is illustrated in the table below. Some information has been omitted.

TABLE 6: CONSOLIDATED GOVERNMENT EXPENDITURE BY FUNCTION

| | 2023/2024 | 2024/2025 |
|---------------------------------|-------------------|---------------------------|
| R billion | REVISED ESTIMATES | MEDIUM TERM ESTIMATION |
| Learning and culture | 468,4 | 480,6 |
| Health | 267,3 | 271,9 |
| Social development | 368,5 | 387,3 |
| Community development | 251,5 | 265,3 |
| Economic development | 239,8 | 255,4 |
| Peace and security | 236,8 | 244,0 |
| General public service | 76,9 | 74,7 |
| Payments for financial assets | 3,5 | 2,6 |
| Fayincins for illiancial assets | 3,3 | 2,0 |

Calculate the interquartile range for 2024/2025 medium term estimation.

(7)

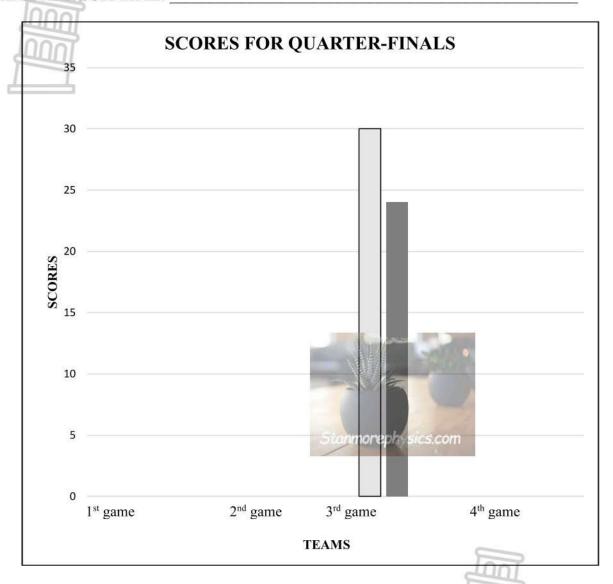
[25]

TOTAL: 150

ANSWER SHEET 1

QUESTION 3.2.3





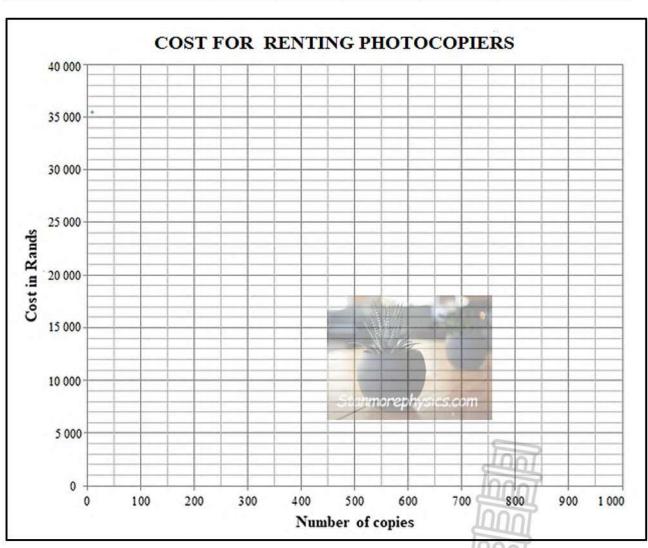
ANSWER SHEET 2

QUESTION 4.1.2

IDDAT

NAME AND SURNAME:

| NO. OF COPIES | 0 | 100 | 300 | 500 | 700 | 900 |
|-------------------|-----|-----|-----|-----|-----|-----|
| OFFER 1: Cost (R) | 450 | | | | | |
| OFFER 2: Cost (R) | | ν | 620 | | | |



ANNEXURE A

QUESTION 1.1

INCOME

4th Quarter Income and Expenditure (Oct-Dec 2023)

| Description | October Amounts (R thousand) | November Amounts (R thousand) | December Amounts (R thousand) | Totals Amounts (R thousand) |
|-------------|------------------------------|-------------------------------|-------------------------------|------------------------------|
| Coca | R4 102,70 | R3 654,50 | R540,00 | R8 297,00 |
| Fundraising | R500,00 | R6 000,00 | | R6 500 |
| Donations | R1 000,00 | R2 000,00 | | R3 000 |
| Poor Fund | R1 000,00 | R790,00 | R600,00 | R2 390 |
| TOTALS | R6 602,70 | R12 444,50 | R1 140,00 | R20 187,00 |

Total Income + Opening Balance = \mathbf{A}

EXPENDITURE

| Description | October | November | December | Totals |
|-------------|--------------|--------------|--------------|--------------|
| | Amounts | Amount | Amount | Amount |
| | (R thousand) | (R thousand) | (R thousand) | (R thousand) |
| Electricity | R400,00 | R300,00 | R300,00 | R1 000,00 |
| Wages | R3 000,00 | R3 000,00 | R3 000,00 | R9 000,00 |
| Envelopes | R288,00 | | | R288,00 |
| Cleaning | D250.00 | | | R350,00 |
| material | R350,00 | | | Inni |
| Tokens | | R5 500,00 | | INNB |
| Mission | R1 500 | R790,00 | R600,00 | R2 890 |
| work | K1 500 | K/90,00 | K000,00 | 000 |
| Maintenance | | |] | 0 |
| TOTALS | R5 538,00 | R9 590,00 | R3 900 | R19 028,00 |

Total expenditure = R19 028,00

Closing balance = R20 187,00 - R19 028,00 = R1 159,00

ANNEXURE B

QUESTION 2.1

EMPLOYEE INCOME TAX CERTIFICATE INFORMATION

Transaction year: 2023 Year of assessment: 2023 Period of reconciliation: 2023/02

TYPE OF CERTIFICATE: IRP5

EMPLOYEE INFORMATION

Surname: Sese Date of birth: 20030719
First Name: Pie Income Tax: 0609781234

EMPLOYER INFORMATION

Trading or other name: Department of Education

| INCOME RE | CEIVED | INCOME RECEIVED | | TAX CREDITS, CONTR | RIBUTIONS |
|-----------|------------|--------------------------------------|-------------|--------------------|----------------|
| AMOUNT SO | OURCE CODE | AMOUNT | SOURCE CODE | AMOUNT | SOURCE CODE |
| R363 721 | 3601 | GROSS RETIREMENT FUNDING INCOME | | PAYE | |
| R30 533 | 3605 | R363 721 | 3697 | R87 959,49 | 4102 |
| R102 853 | 3713 | GROSS NON-RETIREMENT FUNDING INCOM | 1E | TOTAL TAX AND UIF | |
| R12 168 | 3810 | R145 554 | 3698 | R87 959,49 | 4149 |
| | | DEDUCTIONS/CONTRIBUTIONS/INFORMATIO | N | MEDICAL SCHEME FE | EES TAX CREDIT |
| | | R86 238 | 4001 | R4 164,00 | 4116 |
| | | R47 403 | 4005 | | |
| | | R12 168 | 4474 | | |
| | | TOTAL DEDUCTIONS/CONTRIBUTIONS/INFOR | RMATION | | |
| | | R A | 4497 | | |

SOME SOURCE CODES: 3603 – INCOME TAXABLE; 3605 – ANNUAL PAYMENT – TAXABLE; 3713 – OTHER ALLOWANCE – TAXABLE; 3810 – MEDICAL AID CONTRIBUTION OF EMPLOYEE

4001 – CURRENT FUND CONTRIBUTION; **4005** – MEDICAL AID CONTRIBUTION; **4474** – EMPLOYEE'S MEDICAL AID CONTRIBUTIONS; **4497** – TOTAL DEDUCTIONS/CONTRIBUTIONS



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NATIONAL SENIOR CERTIFICATE

GRADE 12



MARKS: 150

| Symbol | Explanation |
|--------|--|
| M | Method |
| MA | Method with accuracy |
| CA | Consistent accuracy |
| A | Accuracy |
| C | Conversion |
| S | Simplification |
| RT | Reading from a table/graph/document/diagram |
| SF | Correct substitution in a formula |
| 0 | Opinion/Explanation |
| P | Penalty, e.g. for no units, incorrect rounding off, etc. |
| R | Rounding off |
| NPR | No penalty for correct rounding minimum two decimal places |
| AO | Answer only |
| MCA | Method with constant accuracy |

This marking guideline consist of 11 pages.

MARKING GUIDELINES

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.

| QUES | ΓΙΟΝ 1 [30 MARKS] | | |
|-------------|--|---------------------------|-----|
| Ques. | Solution | Explanation | T&L |
| 1.1.1 | $A = R20 187,00 + R612,20 \checkmark SF$ | 1SF correct substitution | F |
| | = R20.799,20 | | L1 |
| | = R20 799 200 ✓A | 1A simplification | |
| | | (2) | |
| 1.1.2 | Opening balance is the amount of money in an account | 2A definition | F |
| | at the beginning of the statement period. ✓ ✓ A | | L1 |
| | OR | | |
| | Opening balance is the balance brought forward in the | | |
| | account at the beginning of the statement period. ✓✓A | (2) | |
| 1.1.3 | ✓RT ✓ MA | 1RT correct values | F |
| | = (R4 102,70 + R500,00 + R1000,00 + R1000,00) | | L1 |
| | thousand | 1MA adding correct | |
| | = R6 602,70 thousand | values | |
| | OR | OR | |
| | ✓RT ✓MA | 1RT correct values | |
| | = R 4 102 700,00 + R500 000,00 + R1000 000,00 + | | |
| | R1 000 000,00 | 1MA adding correct | |
| | = R6 602 700 | values (2) | |
| 1.1.4 | ✓MA | | F |
| | $B = R19\ 028,00 - (R1000,00 + R9\ 000,00 + R288,00 +$ | 1MA subtracting from | L1 |
| | R350,00 + R2890,00) thousand | total | |
| | = R5 500 thousand ✓CA | 1CA value of B | |
| | OR | OR | |
| | ✓MA | 1MA subtracting from | |
| | B = R19 028 000,00 - (R100 000 + R9 000 000 + | total | |
| | 288 000 + 350 000 + R2 890 000) | 1CA value of B | |
| UED DE HAD | B = R5 500 000 ✓ CA | (2) | |
| 1.1.5 | Total expenditure | | F |
| | SECURE SE | MARKET OF THE SEC. COMM. | L |
| | R19 028,00 thousand/R19 028 000,00 | 2A correct value in words | |
| | Ninteen million and twenty eight thousand rands ✓ ✓ A | NPU (2) | |
| 1.1.6 | Difference = R3 000,00 − R288,00 ✓ RT ✓ M | 1 RT correct values | F |
| | | 1M subtracting | L1 |
| | $= R2\ 712,00 \checkmark A$ | 1A simplification | |
| | | (3) | N.F |

| 1.2.2 | 1.2.1 | Cost = R249.00 | 1MA dividing by 60 | F |
|---|-------|--|--|------------|
| FR4,15 \(\sigma \)CA | 1.2.1 | 3 | Tivit dividing by 66 | L1 |
| 1.2.2 Profit = R5,00 - R4,15 \rightarrow MA | | | 1 CA simplification | |
| 1.2.3 Number of pens sold = $4 \times 60 \checkmark RT$ | | 0007 | 201 | |
| 1.2.3 Number of pens sold = $4 \times 60 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $ | 1.2.2 | $Profit = R5,00 - R4,15 \checkmark MA$ | | F |
| 1.2.3 Number of pens sold = $4 \times 60 \checkmark RT$ 240 pens $\checkmark A$ 1A correct number 1A simplification 1.2.4 % profit = Profit × 100 Cost price = R0.85 × 100 \checkmark M R4.15 = 20.48% \checkmark CA 1CA simplification (2) 1.2.5 Impossible OR 0 $\checkmark \checkmark A$ 2A correct probability (2) 1.3.1 Friday $\checkmark \checkmark A$ 2A correct day (2) 1.3.2 % discount = R499.00 - R336.75 × 100 $\checkmark MA$ 1RT both values 1MA percentage calculation 1CA simplification (3) 1.3.3 Price before VAT = R499.00 $\div \frac{115}{100}$ OR 1A $\div 1.15$ 1CA simplification 1 1.3.4 1.3.5 1.3.5 1.3.6 1.3.6 1.3.6 1.3.7 1.3.7 1.3.8 1.3.9 | | = R0,85 ✓CA | 1CA simplification | L1 |
| 1.2.4 % profit = Profit x 100 1M percentage calculation 1M percentage calculation 1M percentage calculation 1CA simplification 1CA simplific | 5 | | (2) | |
| 1.2.4 % profit = $\frac{\text{Profit}}{\text{Profit}} \times 100$ 1 1 1 1 1 1 1 1 1 | 1.2.3 | | 1A correct number | F |
| 1.2.4 % profit = Profit x 100 Cost price = R0.85 x 100 \rightarrow M | | = 240 pens ✓ A | Charles and the control of the contr | L1 |
| Cost price R0.85 \times 100 \sqrt{M} 1M percentage calculation 1CA simplification (2) 1 1.2.5 Impossible OR $0 \checkmark A$ 2A correct probability (2) I 1.3.1 Friday \(\forall \forall A \) 2A correct day (2) I 1.3.2 \(\forall \fora | | 5 Jahmorephysics.com | (2) | Sec. |
| Ref | 1.2.4 | | | F |
| 1.2.5 Impossible OR 0 ✓ ✓ A 1.2.5 Impossible OR 0 ✓ ✓ A 1.3.1 Friday ✓ ✓ A 2.2 correct probability (2) 1.3.2 \sqrt{RT} % discount = $\frac{R499,00 - R336,75}{R499,00}$ × 100 ✓ MA (2) 1.3.3 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A 1.3.4 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A 1.3.5 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A 1.3.6 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A 1.3.7 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A 1.3.8 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A 1.3.9 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A 1.3.1 ImA correct value x $\frac{15}{115}$ = R65,09 = R499,00 - R65,09 = R433,91 ✓ CA 1.3.1 InA torrect value x $\frac{15}{115}$ 1.3.2 InA torrect value x $\frac{15}{115}$ 1.3.3 InA torrect value x $\frac{15}{115}$ 1.3.4 InA torrect value x $\frac{15}{115}$ 1.3.5 InA torrect value x $\frac{15}{115}$ 1.3.6 InA torrect value x $\frac{15}{115}$ 1.3.7 InA torrect value x $\frac{15}{115}$ 1.3.8 InA torrect value x $\frac{15}{115}$ 1.3.9 InA torrect value x $\frac{15}{115}$ 1.3.9 InA torrect value x $\frac{15}{115}$ 1.3.1 InA torrect value x $\frac{15}{115}$ 1.3.2 InA torrect value x $\frac{15}{115}$ 1.3.3 InA torrect value x $\frac{15}{115}$ 1.3.4 InA torrect value x $\frac{15}{115}$ 1.3.5 InA torrect value x $\frac{15}{115}$ 1.3.6 InA torrect value x $\frac{15}{115}$ 1.3.7 InA torrect value x $\frac{15}{115}$ 1.3.8 InA torrect value x $\frac{15}{115}$ 1.3.9 InA torrect value x $\frac{15}{115}$ | | THE STATE OF THE PARTY OF THE P | | L1 |
| 1.2.5 Impossible OR $0 \checkmark \lor A$ 2Acorrect probability (2) I 1.3.1 Friday $\checkmark \lor A$ 2A correct day (2) I 1.3.2 $\checkmark RT$ $\checkmark $ | | | 1M percentage calculation | |
| 1.2.5 Impossible OR 0 \checkmark \checkmark A 2Acorrect probability (2) I 1.3.1 Friday \checkmark \checkmark A 2A correct day (2) I 1.3.2 \checkmark RT \checkmark discount = $\frac{R499,00 - R336,75}{R499,00} \times 100 \checkmark$ MA 1RT both values 1MA percentage calculation 1CA simplification (3) 1.3.3 Price before VAT = R499,00 \div $\frac{115}{100}$ OR 1A \div 1,15 1CA simplification I = R433,91 \checkmark CA 1CA simplification I OR VAT = R499,00 \times $\frac{15}{115}$ \checkmark MA 115 1CA simplification 1 OR VAT = R499,00 \times $\frac{15}{100}$ \checkmark MA 1CA simplification 1 OR VAT = R499,00 \times $\frac{100}{115}$ \checkmark A 1A $\frac{100}{115}$ 1A $\frac{100}{115}$ 1A $\frac{100}{115}$ 1B 1A $\frac{100}{115}$ 1B 1A $\frac{100}{115}$ 1B 1B 1B 1B 1B 1B 1B 1 | | SECTION SECTIO | 101 100 | |
| 1.2.5 Impossible OR $0 \checkmark \checkmark A$ 2Acorrect probability (2) I 1.3.1 Friday $\checkmark \checkmark A$ 2A correct day (2) I 1.3.2 $\checkmark RT$ % discount = $\frac{R499,00 - R336,75}{R 499,00} \times 100 \checkmark MA$ 1RT both values 1MA percentage calculation 1CA simplification (3) IA ÷ 1,15 1CA simplification ICA simpl | | = 20,48% ✓ CA | | |
| 1.3.1 Friday ✓ A 1.3.2 \sqrt{RT} % discount = $\frac{R499,00 - R336,75}{R 499,00}$ x 100 ✓ MA | 105 | I | | |
| 1.3.1 Friday $\checkmark \lor A$ 2A correct day (2) II 1.3.2 $\begin{align*}{cccccccccccccccccccccccccccccccccccc$ | 1.2.5 | Impossible OR 0 V V A | 0.005.01 | P |
| 1.3.2 $\sqrt[4]{RT}$ % discount = $\frac{R499,00 - R336,75}{R499,00}$ x 100 $\sqrt[4]{MA}$ lRT both values 1MA percentage calculation 1CA simplification (3) 1.3.3 Price before VAT = $\frac{R499,00 \div 115}{100}$ OR 1,15 $\sqrt[4]{A}$ 1A \div 1,15 1CA simplification 0R VAT = $\frac{R499,00 \times 15}{115}$ $\sqrt[4]{MA}$ 11S 1MA correct value \times 15 11S 1CA simplification 0R VAT = $\frac{R499,00 \times 15}{115}$ $\sqrt[4]{MA}$ 1CA simplification 1CA simp | 121 | P.11 / / / | | L1 |
| 1.3.2 | 1.3.1 | Friday V V A | | F |
| % discount = $\frac{R499,00 - R336,75}{R499,00}$ x 100 ✓ MA R 499,00 = 32,52% ✓ CA 1RT both values 1MA percentage calculation 1CA simplification (3) 1.3.3 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A $= R433,91 \checkmark CA$ 1CA simplification OR VAT = R499,00 x $\frac{15}{115}$ ✓ MA $= R65,09$ = R499,00 - R65,09 = R499,00 - R65,09 = R433,91 ✓ CA OR VAT = R499,00 x $\frac{100}{115}$ ✓ A $= R499,00 \times \frac{100}{115}$ 1A $\frac{100}{115}$ 1A $\frac{100}{115}$ | 122 | /DT | (2) | L1 F |
| R 499,00 = 32,52% ✓ CA 1MA percentage calculation 1CA simplification (3) 1.3.3 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 ✓ A = R433,91 ✓ CA OR VAT = R499,00 x $\frac{15}{115}$ ✓ MA 115 = R65,09 = R499,00 - R65,09 = R433,91 ✓ CA OR VAT = R499,00 x $\frac{100}{115}$ ✓ A 1A $\frac{100}{115}$ 1A $\frac{100}{115}$ | 1.3.2 | | 1DT both values | L1 |
| = 32,52% ✓ CA = 32,52% ✓ CA Calculation 1CA simplification 1CA | | | | LI |
| 1.3.3 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 \checkmark A 1A ÷ 1,15 1CA simplification ICA simpli | | | | |
| 1.3.3 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 \checkmark A = R433,91 \checkmark CA OR VAT = R499,00 x $\frac{15}{115}$ \checkmark MA 115 = R65,09 = R499,00 - R65,09 = R433,91 \checkmark CA OR VAT = R499,00 x $\frac{100}{115}$ \checkmark A 1A $\frac{100}{115}$ 1A $\frac{100}{115}$ | | 32,3270 · CA | | |
| 1.3.3 Price before VAT = R499,00 ÷ $\frac{115}{100}$ OR 1,15 \checkmark A = R433,91 \checkmark CA OR VAT = R499,00 x $\frac{15}{115}$ \checkmark MA 115 = R65,09 = R499,00 - R65,09 = R433,91 \checkmark CA OR VAT = R499,00 x $\frac{100}{115}$ \checkmark A 1A ÷ 1,15 1CA simplification IMA correct value x $\frac{15}{115}$ 1CA simplification 1CA simplification 1CA simplification 1CA simplification | | | 0,000 | |
| | 1.3.3 | Price before VAT = R499.00 ÷ 115 OR 1.15 \checkmark A | | F |
| = R433,91 ✓ CA OR VAT = R499,00 x $\frac{15}{115}$ ✓ MA 115 = R65,09 = R499,00 - R65,09 = R433,91 ✓ CA OR $1 \text{CA simplification}$ 1 LA simplification OR VAT = R499,00 x $\frac{100}{115}$ ✓ A $1 \text{A } \frac{100}{115}$ | (34) | 2 25 25 25 | | L2 |
| OR VAT = R499,00 x $\frac{15}{115}$ \checkmark MA $= R65,09$ $= R499,00 - R65,09$ $= R433,91 \checkmark CA$ OR $VAT = R499,00 \times \frac{100}{115}$ $1 \text{ A simplification}$ 1 A 100 1 A 100 1 A 100 | | 600094097 | Specification of the state of t | 1150mbbert |
| OR VAT = R499,00 x $\frac{15}{115}$ \checkmark MA $= R65,09$ $= R499,00 - R65,09$ $= R433,91 \checkmark CA$ OR VAT = R499,00 x $\frac{100}{115}$ \checkmark A $1MA correct value x \frac{15}{115} 1CA simplification 1A \frac{100}{115}$ | | = R433,91 ✓CA | 1CA simplification | |
| VAT = R499,00 x $\frac{15}{115}$ \checkmark MA = R65,09 = R499,00 - R65,09 = R433,91 \checkmark CA 1MA correct value x $\frac{15}{115}$ 1CA simplification OR VAT = R499,00 x $\frac{100}{115}$ \checkmark A 1A $\frac{100}{115}$ | | | | |
| $ \begin{array}{c} 115 \\ $ | | OR | | |
| $ \begin{array}{r} 115 \\ $ | | | | |
| $= R65,09$ $= R499,00 - R65,09$ $= R433,91 \checkmark CA$ OR $VAT = R499,00 \times \frac{100}{115} \checkmark A$ 115 $1CA simplification$ $1A \frac{100}{115}$ | | 238 35 | | |
| $= R499,00 - R65,09$ $= R433,91 \checkmark CA$ 1CA simplification OR $VAT = R499,00 \times \frac{100}{115} \checkmark A$ $1A \frac{100}{115}$ | | SECTION AND ADDRESS OF THE SECTION AND ADDRESS OF THE SECTION ADDRESS OF | | |
| = R433,91 \checkmark CA 1CA simplification OR VAT = R499,00 x $\frac{100}{115}$ \checkmark A 1A $\frac{100}{115}$ | | | 115 | |
| OR $VAT = R499,00 \times \frac{100}{115} \checkmark A$ $1A \frac{100}{115}$ | | | TORON. | |
| $VAT = R499,00 \times \frac{100}{115} \checkmark A$ | | = R433,91 V CA | ICA simplification | |
| $VAT = R499,00 \times \frac{100}{115} \checkmark A$ | | OP | and the second | |
| 115 | | UK | Innai | |
| 115 | | $V\Delta T = R499.00 \times 100 \checkmark \Delta$ | 14 100 | |
| | | | | |
| | | = R433,91 ✓CA | 1CA simplification | |
| (2) | | 100,71 | - | |
| [30] | | | | cs. |

| Ques. | FION 2 [35 MARKS] Solution | Explanation | T&L |
|-------|--|---|--------------|
| 2.1.1 | R30 533 ✓ ✓ A | 2A correct salary (2) | F |
| 2.1.2 | Monthly tax credit = R4 164 ÷ 12 ✓ A = R347,00 ✓ A | 1A dividing by 12 A1 simplification | F L2 |
| 2.1.3 | Contribution = R86 238 x 36.5 \checkmark MA $= R31 476.87 \checkmark A$ $= R31 476.87 ÷ 5 \checkmark MA$ $= R 6.295.37 \checkmark CAm$ | 1RT correct value 1MA multiplying by 36,5% 1A answer 1MA dividing by 5 1CA simplification (5) | F L2 |
| 2.2.1 | Exchange rate is the value of one currency relative to the value of another currency. | 2A definition (2) | F L2 |
| 2.2.2 | Weaker ✓✓ | 2A Weaker (2) | 17 SPC148047 |
| 2.2.3 | R1 = 0,05 US dollar $= \underbrace{300 \text{ US dollar}}_{0,05} \checkmark$ $= R6000,00 \checkmark$ Joy's sister is correct. \checkmark | 1MA dividing by 0,05 | F L2 |
| 2.3.1 | Amount received = R334 159 x $\frac{1}{3}$ \checkmark | 1A conclusion (2) 1A correct value 1A multiplying 1 | F L2 |
| | = R111 386,33 ✓ | 1A simplification (3) | |



| 2.3.2 | Amount interest | I |
|-------|--|--------------------------------------|
| | 1^{st} six months = 111 386,33 x 4.5 $\sqrt{\text{MA}}$ | CA from QUESTION 2.3.1 L |
| | 100 | |
| | $= R5\ 012,38 + R111\ 386,33$ | MA calculating 4,5% |
| É | $= R116398,71485 \checkmark A$ | |
| Щ | | |
| To | 2^{nd} six months = R116 398,71485 x 4.5 | 1A interest 1st six months |
| 4 | 100 | |
| | = R5 237,9421 + R116 398,71485 | 1 G. Land |
| | = R121 636,6570 ✓ CA | 1CA amount 2 nd six |
| | 2rd six months = P121 626 6570 x 4.5 | months |
| | 3^{rd} six months = R121 636,6570 x $\frac{4.5}{100}$ | |
| | = R5 473,649 + R121 636,6570 | |
| | $= R127 110,3065 \checkmark CA$ | 1CA amount 3rd six |
| | - K127 110,5003 · CA | months |
| | 4^{th} six months = R127 110,3065 x 4,5 | months |
| | 100 | |
| | = R5 719,9637 + R127 110,3065 | |
| | = R132830,2702 | |
| | = R132 830,27 ✓ | 1CA final answer |
| | Interest earned = $R132830,27 - R111386,33 \checkmark M$ | 1M subtracting values |
| | = R21 443,94 ✓CA | 1CA simplification |
| | Statement is incorrect. ✓O | 10 conclusion |
| | | |
| | OR | |
| | Amount interest | |
| | 1^{st} six months = R111 386,33 x 1,045 \checkmark MA | 1MA calculating 4,5% |
| | $= R116 398,71 \checkmark A$ | 1A amount 1 st six months |
| | K110 370,71 * A | 174 diriodite 1 Six months |
| | 2^{nd} six months = R116 398,71 x 1,045 | |
| | = R121 636,66 ✓ CA | 1CA 2 nd six months |
| | | |
| | 3 rd six months =R121 636,66 x 1,045 | |
| | = R127 110,31 ✓ CA | 1CA 3 rd six months |
| | at the second se | 1000 |
| | 4^{th} six months = R127 110,31 x 1,045 | THIN! |
| | = R132 830,27 ✓ CA | 1CA final answer |
| | T D100 000 00 D111 000 00 | ICA III |
| | Interest earned = R132 830,27 - R111 386,33 | 1CA difference |
| | = R21 443,94 ✓ | 10 conclusion |
| | Statement is incorrect. | |
| | OR | |
| | Amount interest | |
| | ✓MA ✓MA ✓MA ✓MA | 4MA multiplying by 1,045 |
| | = R111 386,33 x 1,045 x 1,045 x 1,045 x 1,045 | 1CA simplification |
| | = R132 830,27 ✓ CA | 1MA difference |
| | = R132 830 − R111 386,33 ✓ MA | 1CA simplification |
| | = R21 443,94 ✓CA | 10 conclusion |
| | Statement is incorrect. ✓O | (8) |

| 2.4 | | | F |
|---------------------------|--|-------------------------|----|
| Wallette American Company | LTE = R299,00 x 24 \checkmark MA | 1MA multiplying by 24 | L4 |
| 10001 | $= R7 176 - R3 600,00 \checkmark MA$ | 1MA subtracting savings | |
| | $= R \ 3 \ 576,00 \ x \ 4 \checkmark MA$ | 1MA multiplying by 4 | |
| Inni | $= R14\ 304 \checkmark A$ | 1A amount for 10 Mbps | |
| 20 Mbps | $LTE = R399,00 \times 24$ | | |
| | = R9 576,00 - R6 000 | | |
| | $= R3 576 \times 2 \checkmark MA$ | 1MA multiplying by 2 | |
| | $= R7 152,00 \checkmark CA$ | 1CA amount for 20 Mbps | |
| 50 Mbps | fibre optic = $R749,00 \times 24$ | | |
| | = R17976 - R2400 | | |
| | $= R 15 576 \checkmark CA$ | 1CA amount for 50 Mbps | |
| Mr walke | r's statement is not valid. ✓ O | 10 conclusion | |
| | | (8) | |



| Ques. | FION 3 [27 MARKS] Solution | Explanation | T&L |
|-------|--|-------------------------|-----|
| 3.1.1 | A = 82,3% – 85,7% ✓ MA | 1MA subtracting | D |
| 3.1.1 | A = 62,370 = 63,770 + WA | correct values | L1 |
| | = -3,4% ✓ CA | 1CA simplification | LI |
| T | 15,470 F CA | (2) | |
| 3.1.2 | Mathematical Literacy ✓✓ RT | 2RT correct subject | D |
| 3.1.2 | Wathematical Eliciacy V KI | (2) | L1 |
| 3.1.3 | Range = max. value – min. value | 1RT correct values | D |
| 3.1.3 | Range - max. value - mm. value | 1 M subtract min from | L1 |
| | = 8,5% - (-3,4%) ✓ RT✓M | max | Lī |
| | $= 8.5\% + 3.4\% \checkmark MA$ | 1MA adding correct | |
| | 0,570 + 5,470 × MIX | values | |
| | = 11.9% ✓ A | 1A simplification | |
| | 11.570 ° A | (4) | |
| 3.1.4 | Mean | (1) | D |
| J.1.1 | ✓RT | | L2 |
| | 78,2% = (76,9 + 80,5 + 81,8 + B + 86,2 + 87,7 + 75,6 + 10,0) | 1RT correct values | |
| | 82,3+63,5+76,2) | The contest threes | |
| | 10 ✓ M | 1M concept of mean | |
| | 78,2% = 710,2% + B | lini concept of mean | |
| | 10 | 1M changing the subject | |
| | $B = 782 \% - 710,2\% \checkmark M$ | 1CA simplification | |
| | $B = 71,3\% \checkmark CA$ | (4) | |
| 3.1.5 | P (subject with % decrease) = $\underline{2} \checkmark RT$ | 1RT numerator | P |
| | 10 √ RT | 1A denominator | L2 |
| | = 0,2 ✓ CA | 1CA simplification | |
| | | (3) | |
| 3.2.1 | RSA ✓✓A | 2A correct team | D |
| | | (2) | L2 |
| 3.2.2 | New Zealand ✓✓A | 2A correct team | D |
| | 2330 - 2300 | (2) | L2 |
| 3.2.3 | | | D |
| | 2023 Rugby World Cup Quarter Finals | | L2 |
| | | | |
| | 35 | TUOI | |
| | 30 — 💆 — 🗸 — 🗸 — | Innai | |
| | 25 | | |
| | 165 | шппт | |
| | უ 20 ✓ | 10000 | |
| | § 20 ✓ S 15 | ETTITUI . | |
| | | ✓✓✓✓✓ one mark | |
| | 10 | for each bar | |
| | 5 | | |
| | 0 | | |
| | 1st Game 2nd Game 3rd Game 4th Game | | |
| | Teams | | |
| | 1 cams | gran. | |
| | | (6) | |
| 3.2.4 | No mode ✓✓ A | 2A correct mode | D |
| | | | L1 |

| Ques. | FION 4 [33 MARKS] | Soluti | on | | | | Explanation | T&L |
|-------|---|-----------------------------|-------------------|-------------------|-------------------|---|---|---------|
| 1.1.1 | Cost will vary according to the number of copies made. ✓✓D | | | | 2D definition (2) | F L1 | | |
| 1.1.2 | Umlazi Office = R450,00 + (R0,70 x no of colour print) $\checkmark \checkmark \mathbf{A}$ Queens Shop = R350,00 + (R0,90 x no of colur print) $\checkmark \checkmark \mathbf{A}$ | | | | | 2A correct formula 2A correct formula (4) | F L4 | |
| 4.1.3 | No colour copies Cost for Umlazi Cost for Queens | 0 100 450 520 350 440 | 300 660 620 | 500 800 800 | 700 940 980 | 900 1080 1160 | ✓ ✓✓ for each two correct values | F L4 |
| | 1400 1200 1000 (8) 800 800 | r photocopy | machi | ne ren | tal | | ✓ starting point for Umlazi ✓ starting point for Queens ✓ break-even point ✓ ✓ plotting all the points ✓ joining the points | |
| | 0 —— Umlazi equipment | 100 300 — Queens S | 500 hop | 700 No. o | o 9 f copies | 00 | (9) | |
| 1.1.4 | 500 copies ✓✓A | | | | | F | 2A correct number of copies (2) | F L1 |
| 1.1.5 | Umlazi Office equip | ment ✓✓A | | | | Ţ | 2A correct company (2) | F L1 |
| 1.2.1 | Continuous data. ✓ A Data is obtained by r | | 'A | | | _ | 1A correct answer 2A explanation (3) | D L2 |
| .2.2 | 13 years ✓✓A | | | | | | 2A correct age (2) | D L1 |

| 4.2.3 | √ 0 | | D |
|-------|---|--------------------|----|
| | For high jump you measure the height the athletes jumps and for | 10 High jump | L2 |
| | long jump and shot put you measure the distance an athlete | 2O shot put and | |
| | throws. 🗸 🗸 O | long jump (3) | |
| 4.2.4 | 3,80 m 4,10 m; 4,10 m; 4,40 m; 4,50 m;4,60 m; 4,80 m;5,20 m ✓A | 1A order, | D |
| | nnni | ascending or | L2 |
| - 1 | Median = $4,40 \text{ m} + 4,50 \text{ m} \checkmark MA$ | descending | |
| 1 | | 1MA concept of a | |
| T | = 8.9 m | mean | |
| _ | 2 | | |
| | = 4,5m ✓ CA | | |
| | Range = max value – min value | 1CA simplification | |
| | $= 5,20 \text{ m} - 3,80 \text{ m} \checkmark \mathbf{A}$ | | |
| | = 1,4m ✓ CA | 1A difference | |
| | The statement is correct. The range is small so the results are | 1CA simplification | |
| | closer to the median. ✓ J | 1Justification | |
| | | (6) | |



| Ques. | Solution | Explanation | T&l |
|-------|---|---|---------|
| 5.1.1 | Consumption = 32 kl RT \checkmark MA \checkmark RT 6 kl x R18,12 kl = R108,72 32 kl - 6 kl = 26 kl 9 kl x R29,26 kl = R263,3426 kl - 9 kl = 17 kl 15 kl x R36,58 = R548,7017 kl - 15 kl = 2 kl | 1RT correct consumption 1MA all (4) correct kl 1RT 4 tariffs | F L3 |
| | 2 k | 1CA finding total charge 1A simplification | |
| | Grand total = R1 071,76 x 1,15 \checkmark A | 1A correct amount 1A x by 1,15 | |
| | = R1 232,52 ✓ CA | 1CA simplification | |
| | OR \checkmark A Grand total = R1 071,76 x $\frac{15}{100}$ | 1A correct amount | |
| | $= R160,76 + R1\ 071,76 \checkmark \mathbf{A}$ | 1 A adding VAT | |
| | = R1 232,52 ✓ CA | 1CA simplification (8) | |
| 5.1.2 | Median = $\underline{R29,26 + R36,58} \checkmark RT \checkmark A$ = $R32,92 \checkmark CA$ | 1RT correct values 1A concept of a mean 1CA simplification (3) | D L2 |
| 5.2 | 0 to 6kℓ bracket: ✓RT = R18,12 - R16,18 x 100 ✓MA R16,18 = 11,99% ✓A 7 kℓ to 15 kℓ bracket: ✓RT = R29,86 - R26,68 x 100 ✓MA R26,68 | 1RT correct values 1MA multiplying correct values with 100 1A simplification 1RT correct values 1MA multiplying by 100 | F L2 |
| | = 12% ✓ CA | 1CA simplification | |
| | 7 kℓ to 15 kℓ bracket had a high percentage increase. ✓ O | 10 opinion (7) | |

| 5.3 | 2,6;74,7;244,0;255,4;265,3;271,9;387,3;480,6 ✓ MA | 1MA order, ascending or descending | D L4 |
|-----|---|------------------------------------|---------|
| | $Q_2 = 255,4 + 265,3 \checkmark A$ | 1A concept of median | L4 |
| | 2 | Or other learners will | |
| | 11101 | indicate the mean on | |
| | nni | the arranged data. | |
| Ä | = 260,5 billion ✓CA | 1CA Q ₂ | |
| | $Q_1 = \underline{74,7 + 244,0}$ | | |
| _ | 2 | 1CA Q1 | |
| | = 159,35 billion ✓CA | | |
| | $Q_3 = \underbrace{271,9 + 387,3}_{2}$ | | |
| | | 1CA Q ₃ | |
| | = 329,6 billion ✓ CA | | |
| | $IQR = Q_3 - Q_1$ | | |
| | | 1M subtracting | |
| | = 329,6 billion − 159,35 billion ✓ M | quartile | |
| | = 170,25 billion ✓ CA | 1CA IQR value | |
| | | (No penalty for | |
| | | omitting billion.) | |
| | | (7) | |
| | | [25] | |
| | | W | |
| | | TOTAL: 150 | |

