Province of the
EASTERN CAPE
EDUCATION

# NATIONAL SENIOR CERTIFICATE

## GRADE 11

## NOVEMBER 2025

# MATHEMATICAL LITERACY P1 MARKING GUIDELINE

**MARKS:** **100**

This marking guideline consists of 8 pages.

| Symbol | Explanation |
|---|---|
| **M** | Method |
| **MA** | Method with accuracy |
| **CA** | Consistent accuracy |
| **A** | Accuracy |
| **C** | Conversion |
| **S** | Simplification |
| **RT** | Reading from a table/a graph/document/diagram |
| **SF** | Correct substitution in a formula |
| **O** | 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 |

**NOTE:**

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out an attempt of a question and not redone the question, mark the crossed out version.
- Consistent accuracy applies in ALL aspects of the marking guideline. Stop marking at the second calculation error.
- NOTE: Consistent accuracy (CA) does NOT apply in cases of a breakdown.
- If the candidate presents any extra solution when reading from a graph and table, then penalise for every extra item presented.
- As a general marking principle, if a candidate has incurred one mistake and there is evidence of sound Mathematics thereafter, then that candidate should lose ONE mark only.

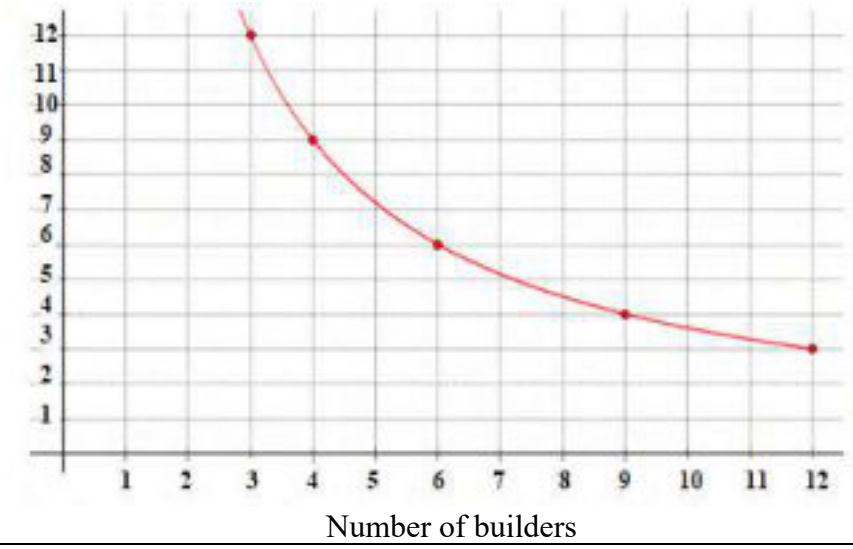
**Topics: F – Finance, DH – Data Handling, P – Probability**

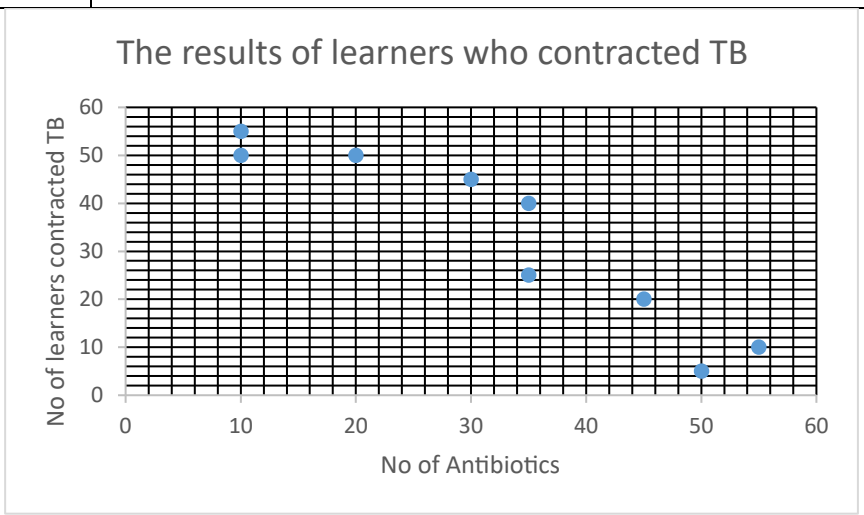
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| QUESTION 1 [22 Marks] | | | | |
|---|---|---|---|---|
| | | | | |
| **No.** | | **Solution** | **Explanation** | **Topic and Level** |
| 1.1 | 1.1.1 | 2 457 164 834 ✓ ✓ A | 2A correct answer (2) | F L1 |
| | 1.1.2 | 2 Cheques/Two cheques ✓ ✓ A | 2A correct number of cheques (2) | F L1 |
| | 1.1.3 | Amount of cash = R276,70 ✓ ✓ A | 2A correct amount (2) | F L1 |
| | 1.1.4 | Total Amount = R260,00 + R16,70 + R340,00 + R480,00 ✓ MA<br>= R1 097,50 ✓ A<br>**AO – FULL MARKS** | 1MA Adding correct amounts<br>1A correct answer (2) | F L1 |
| 1.2 | 1.2.1 | Numerical ✓ ✓ A | 2A correct answer (2) | D L1 |
| | 1.2.2 | 73 ✓ ✓ A | 2A correct points (2) | D L1 |
| | 1.2.3 | TSA and AMA ✓ ✓ A | 2A correct teams (2) | D L1 |
| 1.3 | 1.3.1 | C ✓ ✓ A | 2A correct definition (2) | D L1 |
| | 1.3.2 | E ✓ ✓ A | 2A correct definition (2) | F L1 |
| | 1.3.3 | A ✓ ✓ A | 2A correct definition (2) | P L1 |
| | 1.3.4 | F ✓ ✓ A | 2A correct definition (2) | F L1 |
| | | | **[22]** | |

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| QUESTION 2 [27 Marks] | | | | |
|---|---|---|---|---|
| | | | | |
| **No.** | | **Solution** | **Explanation** | **Topic and Level** |
| 2.1 | 2.1.1 | Deposit saved $= \frac{16}{100} \times R499\,900{,}00$ ✓ MA<br>$= R79\,984{,}00$ ✓ A | 1MA multiplying correct amount by 16%<br>1A correct answer<br>(2) | F<br>L2 |
| | 2.1.2 | Balance = R499 900,00 – R79 984,00 ✓ MA<br>= R419 916,00 ✓ A<br><br>Repayment $= R419\,916{,}00 + (\frac{9{,}5}{100} \times R419\,916{,}00) \times 3$ ✓ MA<br>= R419 916,00 + (R39 892,02 x 3)<br>= R419 916,00 + R119 676,06 ✓ MA<br>= R539 592,06 ✓ CA<br><br>**Loan amount can also be calculated as:**<br><br>$\frac{84}{100} \times R499\,900 = R419\,916{,}00$ | **CA from 2.1.1**<br>1MA subtracting correct deposit<br>1A correct balance<br>1MA multiplying by 9,5% and 3<br>1MA adding correct balance<br>1CA answer<br>(5) | F<br>L4 |
| | 2.1.3 | Monthly instalment $= \frac{539\,592{,}06}{36}$ ✓<br>= R14 988,67 ✓ | **CA from 2.1.2**<br>1M division by 36<br>1A answer rounded to 2 DP<br>(2) | F<br>L2 |
| | 2.1.4 | P(Silver Car) $= \frac{3}{14}$ ✓ A $= 0{,}21$ ✓ R | 1A numerator<br>1A denominator<br>1R rounding<br>(3) | P<br>L2 |
| 2.2 | 2.2.1 | Number of builders x number of days = 36 ✓ ✓ A<br>**OR**<br>Number of Builders = $\frac{36}{number\ of\ days}$ ✓ ✓ A | 2A correct formula<br>(2) | F<br>L2 |
| | 2.2.2 | <table><tr><td>No. of builders</td><td></td><td>3 4</td><td>6</td><td>9</td><td>12</td></tr><tr><td>No. of days</td><td>12</td><td>**9** ✓</td><td>**6** ✓</td><td>**4** ✓</td><td>3</td></tr></table> | 1A 9 days<br>1A 6 days<br>1A 4 days<br>(3) | F<br>L2 |

| | | | | |
|---|---|---|---|---|
| | 2.2.3 | Number of builders vs No. of days<br><br> | ✓ ✓ ✓ All points plotted<br>✓ joining the points with a smooth curve<br>(4) | |
| | 2.2.4 | Direct Proportion ✓ ✓ A | 2A direct<br>(2) | F<br>L1 |
| 2.3 | Inflation rate = $\frac{\text{Price Difference}}{\text{Original Amount}} \times 100$<br>✓ M<br>$= \frac{R20\,600 - R20\,000}{R20\,000} \times 100$ ✓ M ✓ M<br>= 3% ✓ CA | | 1M subtracting correct values<br>1M multiplying by 100<br>1M division by R20 000<br>1CA answer<br>(4) | F<br>L2 |
| | | | **[27]** | |

| QUESTION 3 [23 Marks] | | | | |
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| **No.** | | **Solution** | **Explanation** | **Topic and Level** |
| 3.1 | 3.1.1 | % = 100 – (12 + 26 + 8 + 20 + 27 + 7) ✓ M<br>= 100 – 93 ✓ M<br>= 7% ✓ CA | 1M adding correct values<br>1M subtracting<br>1CA % (3) | D<br>L1 |
| | 3.1.2 | Number of learners in Buffalo City = $\frac{26}{100} \times 20\ 910$ ✓ M<br>= 5 436,6 ✓ S<br>= 5 437 learners ✓ R | 1M correct value<br>1S simplification<br>1R whole number (3) | D<br>L2 |
| | 3.1.3 | 7% 8% 12% 20% 26% 27% ✓ M<br>Median = $\frac{12\% + 20\%}{2}$ ✓ M<br>= 16% ✓ CA<br>**CA from 3.1.1** | 1M arranging in order<br>1M concept of median<br>1CA answer in percentages (3) | D<br>L3 |
| | 3.1.4 | Sarah Baartman ✓ ✓ RT<br>**CA from 3.1.1** | 2RT correct district (2) | D<br>L2 |
| | 3.1.5 | Mean = $\frac{7+8+12+20+26+27}{6}$ ✓ M ✓ M<br>= 16,67% ✓ CA<br>**CA from 3.1.1** | 1M adding correct values<br>1M concept of a mean<br>1CA correct mean (3) | D<br>L2 |
| | 3.1.6 | P(District less than 10%) $= \frac{2}{6}$ ✓ A ✓ A<br>$= \frac{1}{3}$ ✓ CA | 1A numerator<br>1A denominator<br>1CA simplified fraction (3) | D<br>L2 |
| 3.2 | |  | 3A 1 mark for every 3 points plotted correctly<br>1A for title<br>2A for x- and y-axis (6) | D<br>L4 |
| | | | **[23]** | |

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| **QUESTION 4 [28 Marks]** | | | | |
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| | | | | |
| **No.** | | **Solutions** | **Explanations** | **Topic and Level** |
| 4.1 | 4.1.1 | Cost = R4 950 + R4 750 ✓ M<br>= R9 700 ✓ A<br>= R9 700 + R1 455 ✓ M<br>= R11 155 ✓ CA | 1M adding correct amounts<br>1A answer<br>1M adding VAT amount<br>1CA answer (4) | F<br>L3 |
| | 4.1.2 | Profit = Income – Expenses<br>= R135 – R95 ✓ RT ✓ M<br>= R40 ✓ A<br>= R40 × 25 ✓ M<br>= R1 000 ✓ CA<br>INVALID ✓ O<br>**OR**<br>Cost = 25 x 95<br>= R2 375<br>Income = 135 x 25<br>= 3 375<br>Profit = 3 375 – 2 375<br>= 1 000<br>INVALID ✓ O | 1RT correct values<br>1M subtracting correct values<br>1M multiplying by 25<br>1CA answer<br>1O conclusion<br>**OR**<br>1RT correct values<br>1M subtracting correct values<br>1M multiplying by 25<br>1CA answer<br>1O conclusion (6) | F<br>L4 |
| | 4.1.3 | (a) Values = W(5;675) ✓ A<br>The income is equal to expenses ✓ A | 1A correct points<br>1A correct meaning (2) | FL1 |
| | | (b) Cost = R200,00 + R95,00 x number of liters ✓ ✓ MA | 2MA correct formula (2) | F<br>L2 |
| | | | | |
| 4.2 | | R1 = € 0,049669<br>? = € 45 000<br>$\frac{€45\,000}{€0,049669} \times R1$ ✓ RT ✓ M<br>= R905 997,70 ✓ CA | 1RT correct amount<br>1M dividing by the correct rate<br>1CA simplification (3) | F<br>L4 |
| | | | | |
| 4.3 | | Range of marks = 75 – 15 ✓ RT ✓ MA<br>= 60 ✓ CA<br>Range as a %: $\frac{60}{75} \times 100 = 80\%$ ✓ M<br>VALID ✓ O | 1MA concept of range<br>1RT correct values<br>1CA range of the data<br>1M multiply by 100<br>1O opinion (5) | D<br>L3 |

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|---|---|---|---|
| 4.4 | ✓ MA ✓ M<br>Block 1 = 350 kWh x R2,216 = R775,60<br>Block 2 = 24 kWh x R2,711 = R65,064 ✓ M<br>= R840,664 x 1,15 ✓ MA<br>= R966,7636 ✓ CA<br>= R966,76 ✓ R | 1MA correct kWh<br>1M cost of 350 kWh<br>1M cost for 24 kWh<br>1MA multiplying by 1,15<br>1CA answer<br>1R rounding<br>(6) | F<br>L4 |
| | | **[28]** | |
| | | | |
| | | **TOTAL: 100** | |

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