MATHEMATICAL LITERACY

# GRADE 10

**Assignment 2**

**MEMO**

**2019**

**SCHOOL BASED ASSESSMENT TASK**

# TOPIC: Basic Skills, Measurement and Finance

**MARKS: 50**

**WEIGHTED MARK: 10**

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| **SYMBOL** | **EXPLANATION** |
| M | Method |
| MA | Method with accuracy |
| MCA | Method with consistent accuracy |
| CA | Consistent accuracy |
| A | Accuracy |
| C | Conversion |
| S | Simplification |
| RT/RG | Reading from a table/graph/diagram |
| SF | Correct substitution in a formula |
| O | Opinion/Example/Definition/Explanation |
| P | Penalty, e.g. for no units/incorrect rounding off, etc. |
| R | Rounding off |
| NPR | No penalty rounding or omitting units |
| AO | Answer only, if correct, full marks |

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| **Question 1 [27 MARKS]** | | |
| **Ques** | **Solution**  ✓A | **Explanation** |
| 1.1.1 | ✓A  Interest is a fee paid for borrowing money. | 1A fee paid  1A borrowing money  (2) |
| 1.1.2 | ✓A  ✓A  12% = =  ✓M | 1A for correct fraction  1A correct answer  (2) |
| 1.1.3 | ✓CA  4 × 12 = 48 months  ✓M | 1M for multiplying by 12  1CA answer in months  (2) |
| 1.1.4 | Interest = R10 000 × 12% × 4  ✓CA    ✓M  = R1 200 × 4  ✓CA  = R4 800 | 1M for multiplying by 12  1CA for R1 200  1M for multiplying by 4  1CA answer  (4) |
| 1.1.5 | ✓CA  Total amount  ✓M  = R10 000 + R4 800  ✓CA  = R14 800 | 1M adding correct values  1CA answer  (2) |
| 1.1.6 | ✓✓O  Need money to buy cars, houses, etc | 2O need money to buy  (2) |

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| **Ques** | **Solution** | **Explanation** |
| 1.2.1 | ✓✓RT  R30,00 | 2RT correct value  (2) |
| 1.2.2 | ✓M  ✓M  Fee = R6,90 + R1,05 × 5  ✓CA  = R12,15 | 1M using correct tariff  1M multiplying by 5  1CA answer  (3) |
| 1.2.3 | Branch counter cash withdrawal  ✓M  = R27,00 + R1,15 × 5  ✓CA  = R32,75  External Debit order  ✓M  = R3,75 + R0,75 × 2  ✓CA  = R5,25  ATM cash deposit  ✓M  = R1,10 × 56  ✓CA  = R61,60  Total bank charges  ✓M  = R32,75 + R5,25 + R61,60  ✓CA  = R99,60 | 1M using correct tariff  1CA answer  1M using correct tariff  1CA answer  1M using correct tariff  1CA answer  1M adding 3 calculated values  1CA answer  (8) |

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| **Question 2 [23 MARKS]** | | |
| **Ques** | **Solution** | **Explanation** |
| 2.1.1 | ✓A  A = 100  ✓A  B = 100  ✓A  C = 75  ✓A  D = 175  ✓A  E = 100 | 1A correct table value  1A correct table value  1A correct table value  1A correct table value  1A correct table value  (5) |
| 2.1.2 | ✓✓O  First 100 minures cost R100 rand  **OR**  ✓✓O  100 free minutes  **OR**  ✓✓O  Call charged after 100 free minutes | 2O free/100 minutes  (2) |
| 2.1.3 | Minutes used  ✓M  =37 × 3  ✓CA  = 111  ✓M  Total cost = R100 + 11 × R0,50  ✓CA  = R105,50 | 1M for multiplying by 3  1CA calculating minutes used  1M using formula  1CA answer  (4) |
| 2.1.4 | ✓✓A  Direct proportion. | 2A direct proportion  (2) |

| **Ques** | **Solution** | **Explanation** |
| --- | --- | --- |
| 2.2.1 | ✓M  375 ÷ 1 000  ✓A  = 0,375 litres | 1M dividing by 1 000  1A correct answer.  (2) |
| 2.2.2 | Eggs needed  ✓M  = 156 ÷ 12  ✓M  = 13 × 2  ✓A  = 26 | 1M for dividing by 12  1M for multiplying by 2  1A correct number of eggs  (3) |
| 2.2.3 | Number of trays  ✓M  = 504 ÷ 6 = 84  Trays per oven  ✓M  = 84 ÷ 4  ✓CA  = 21 × 20  ✓CA  = 420 minutes | 1M dividing by 6  1CA for answer  1M dividing by 4  1CA for answer  1CA for answer  (5) |