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 | ✓AInterest is a fee paid for borrowing money. | 1A fee paid1A borrowing money(2) |
| 1.1.2 | ✓A✓A12% = $\frac{12}{100}$ = $\frac{3}{25}$✓M | 1A for correct fraction1A correct answer(2) |
| 1.1.3 | ✓CA4 × 12 = 48 months✓M | 1M for multiplying by 121CA answer in months(2) |
| 1.1.4 | Interest = R10 000 × 12% × 4✓CA ✓M = R1 200 × 4✓CA = R4 800 | 1M for multiplying by 121CA for R1 2001M for multiplying by 41CA answer(4) |
| 1.1.5 | ✓CATotal amount✓M= R10 000 + R4 800✓CA= R14 800 | 1M adding correct values1CA answer(2) |
| 1.1.6 | ✓✓ONeed money to buy cars, houses, etc | 2O need money to buy(2) |

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| **Ques** | **Solution**  | **Explanation** |
| 1.2.1 | ✓✓RTR30,00 | 2RT correct value(2) |
| 1.2.2 | ✓M✓MFee = R6,90 + R1,05 × 5✓CA = R12,15 | 1M using correct tariff1M multiplying by 51CA answer(3) |
| 1.2.3 | Branch counter cash withdrawal✓M= R27,00 + R1,15 × 5✓CA= R32,75External Debit order✓M= R3,75 + R0,75 × 2✓CA= R5,25ATM cash deposit✓M= R1,10 × 56✓CA= R61,60Total bank charges✓M= R32,75 + R5,25 + R61,60✓CA= R99,60 | 1M using correct tariff1CA answer1M using correct tariff1CA answer1M using correct tariff1CA answer1M adding 3 calculated values1CA answer(8) |

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| **Question 2 [23 MARKS]** |
| **Ques** | **Solution**  | **Explanation** |
| 2.1.1 | ✓AA = 100✓AB = 100✓AC = 75✓AD = 175✓AE = 100 | 1A correct table value1A correct table value1A correct table value1A correct table value1A correct table value(5) |
| 2.1.2 | ✓✓OFirst 100 minures cost R100 rand **OR**✓✓O100 free minutes**OR**✓✓OCall charged after 100 free minutes | 2O free/100 minutes(2) |
| 2.1.3 | Minutes used ✓M=37 × 3✓CA= 111✓MTotal cost = R100 + 11 × R0,50✓CA = R105,50 | 1M for multiplying by 31CA calculating minutes used1M using formula1CA answer(4) |
| 2.1.4 | ✓✓ADirect proportion. | 2A direct proportion(2) |

| **Ques** | **Solution**  | **Explanation** |
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| 2.2.1 | ✓M375 ÷ 1 000✓A= 0,375 litres | 1M dividing by 1 0001A correct answer.(2) |
| 2.2.2 | Eggs needed✓M= 156 ÷ 12✓M= 13 × 2✓A= 26 | 1M for dividing by 121M for multiplying by 21A correct number of eggs(3) |
| 2.2.3 | Number of trays ✓M= 504 ÷ 6 = 84Trays per oven ✓M= 84 ÷ 4✓CA= 21 × 20✓CA= 420 minutes | 1M dividing by 61CA for answer1M dividing by 41CA for answer1CA for answer(5) |