MATHEMATICAL LITERACY

# GRADE 10

**Assignment 1**

**MEMO**

**2019**

**SCHOOL BASED ASSESSMENT TASK**

# TOPIC: Basic Skills

**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 [29 MARKS]** |
| **Ques** | **Solution**  | **Explanation** |
| 1.1.1 | ✓✓A33 445 835 | 2A correct number format(2) |
| 1.1.2 | Ninety five million eigth hundred and ten thousand nine hundred and seventy one.✓✓A | 2A correct words(2) |
| 1.1.3 | ✓✓A955 | 2A correct rounding(2) |
| 1.1.4 | ✓✓A95 800 000 | 2A correct rounding(2) |
| 1.1.5 |  ✓CATotal prize money (4+bonus ball)✓RT✓RT= 78 ×R2 590✓M✓CA= R202 020 | 1RT correct value 781RT correct value R2 5901M multiplying values1CA answer(4) |
| 1.1.6 | ✓✓OTo win money.✓RT | 2O stating to win(2) |
| 1.2.1 | ✓M500 : 231 | 1M correct order1RT correct values(2) |
| 1.2.2 |  ✓M2 + 3 = 5 ✓CA✓MR126 × $\frac{2}{5}$ = R50,40✓M✓CAR126 × $\frac{3}{5}$ = R75,60 | 1M adding correct values1M for multiplying by $\frac{2}{5}$1CA answer1M for multiplying by $\frac{3}{5}$1CA answer(5) |
| 1.2.3 | Increase = R3 500 × 7,5%✓CA = R262,50✓MNew rent = R3 500 + R262,50✓CA = 3 762,50 | 1CA calculating 7,5%1M adding 7,5% to R3 5001CA answer(3) |
| 1.2.4 | ✓✓AR1 000✓M | 2A correct rounding(2) |
| 1.2.5 | ✓M✓CAR500 × 85% = R425 | 1M for calculating 85%1M for multiplying by 85%1CA answer(3) |

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| **Question 2 [21 MARKS]** |
| **Ques** | **Solution**  | **Explanation** |
| 2.1.1 | ✓✓AIndirect proportion✓✓AAs the one value increase the other value decrease | 2A Indirect proportion2A reason(4) |
| 2.1.2 | ✓✓RT1 400 litres | 2RT correct answer(2) |
| 2.1.3 | ✓✓RT500 litres | 2RT correct answer(2) |
| 2.1.4 | As the time increase the volume of the petrol in the tank decrease.✓✓A | 2A correct trend explanation(2) |
| 2.2.1 | As the number of people in the car increase the petrol cost decrease.✓✓O | 2O correct explanation(2) |

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| **Ques** | **Solution**  | **Explanation** |
| 2.2.2 |  ✓A✓A✓A✓A✓ADad’s petrol in randNumber of people in car(5) |
| 2.2.3 | ✓✓OCar will be over loaded**OR**✓✓ONot safe **OR**✓✓OPeople will not sit comfortably  | 2O any two correct reasons(4) |