MATHEMATICAL LITERACY

# GRADE 10

**Assignment 1**

**MEMO**

**2019**

**SCHOOL BASED ASSESSMENT TASK**

# TOPIC: Basic Skills

**MARKS: 50**

**WEIGHTED MARK: 10**

|  |  |
| --- | --- |
| **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 |

|  |  |  |
| --- | --- | --- |
| **Question 1 [29 MARKS]** | | |
| **Ques** | **Solution** | **Explanation** |
| 1.1.1 | ✓✓A  33 445 835 | 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 | ✓✓A  955 | 2A correct rounding  (2) |
| 1.1.4 | ✓✓A  95 800 000 | 2A correct rounding  (2) |
| 1.1.5 | ✓CA  Total prize money (4+bonus ball)  ✓RT  ✓RT  = 78 ×R2 590  ✓M  ✓CA  = R202 020 | 1RT correct value 78  1RT correct value R2 590  1M multiplying values  1CA answer  (4) |
| 1.1.6 | ✓✓O  To win money.  ✓RT | 2O stating to win  (2) |
| 1.2.1 | ✓M  500 : 231 | 1M correct order  1RT correct values  (2) |
| 1.2.2 | ✓M  2 + 3 = 5  ✓CA  ✓M  R126 × = R50,40  ✓M  ✓CA  R126 × = R75,60 | 1M adding correct values  1M for multiplying by  1CA answer  1M for multiplying by  1CA answer  (5) |
| 1.2.3 | Increase = R3 500 × 7,5%  ✓CA  = R262,50  ✓M  New rent = R3 500 + R262,50  ✓CA  = 3 762,50 | 1CA calculating 7,5%  1M adding 7,5% to R3 500  1CA answer  (3) |
| 1.2.4 | ✓✓A  R1 000  ✓M | 2A correct rounding  (2) |
| 1.2.5 | ✓M  ✓CA  R500 × 85% = R425 | 1M for calculating 85%  1M for multiplying by 85%  1CA answer  (3) |

|  |  |  |
| --- | --- | --- |
| **Question 2 [21 MARKS]** | | |
| **Ques** | **Solution** | **Explanation** |
| 2.1.1 | ✓✓A  Indirect proportion  ✓✓A  As the one value increase the other value decrease | 2A Indirect proportion  2A reason  (4) |
| 2.1.2 | ✓✓RT  1 400 litres | 2RT correct answer  (2) |
| 2.1.3 | ✓✓RT  500 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) |

|  |  |  |
| --- | --- | --- |
| **Ques** | **Solution** | **Explanation** |
| 2.2.2 | ✓A  ✓A  ✓A  ✓A  ✓A  Dad’s petrol in rand  Number of people in car  (5) | |
| 2.2.3 | ✓✓O  Car will be over loaded  **OR**  ✓✓O  Not safe  **OR**  ✓✓O  People will not sit comfortably | 2O any two correct reasons  (4) |