**EKURHULENI NORTH**

 **DISTRICT**

 **GRADE 10**

 **JUNE EXAM 2019**

 **MATHEMATICAL LITERACY**

 **MEMORANDUM PAPER 2**

|  |  |
| --- | --- |
| **SYMBOL** | **EXPLANATION** |
| **M** | Method |
| **MA** | Method with accuracy |
| **CA** | Consistent Accuracy |
| **A** | Accuracy |
| **C** | Conversion |
| **S** | Simplification |
| **RT/ RG** | Reading from a table / graph |
| **F** | Choosing the correct formula |
| **SF** | Substitution in a formula |
| **O** | Opinion |
| **P** | Penalty: eg. For: no units, incorrect rounding off etc. |
| **R** | Rounding off |
| **G** | Plotting / Drawing Graph |

|  |  |  |
| --- | --- | --- |
| **Question 1** |  | Explanation |
| 1.1 | 1.1.1 | Dep. Fee = R2 + R1 ✓RT = R2 + R1  = R2 + R21 = R23✓CA MThis means that the amount of R25✓ is incorrect and should be replaced with R23 | 1RT1S – simplification1CA1O- conclusion |
|  |  |  |  |
|  | 1.1.2 | Correct balance = R20 575.01 + R1✓✓MA = R20 576.01✓CA | 2MA1CA |
|  |  |  |  |
|  | 1.1.3 | R3 600✓✓RT | 2RT |
|  |  |  |  |
|  | 1.1.4 | Bank fees = R23+ R2.50 R1✓MA = R31.50✓A | 2MA- for adding up1A |
|  |  |  |  |
|  | 1.1.5 | Better off✓✓, because his bank balance is higher at the end of the month than it was at the beginning.O | 2M- for saying better off1O- opinion |
|  |  |  |  |
|  |  |  |  |
| **Question 2** |  |  |
| 2.1 | 2.1.1 | You can catch the one that leaves at 05:51✓A or the 06:23✓A | 2A accuracy |
|  |  |  |  |
|  | 2.1.2 | This is because this train only travels as far as Umgeni. ✓✓O | 2O |
|  |  |  |  |
|  | 2.1.3 | They mean that the train does not stop at Nyaninga station. It might also mean that the train station is closed, because none of the trains on the timetable stop there.  | 1A- not stop1A- closed1O |
|  |  |  |  |
|  | 2.1.4 | You can catch the 04:35; 05:05; 05:43; 06:47; 07:58; 08:51; 10:09 or 11:24. ✓✓ | 1A first 41A last 4 |
|  |  |  |  |
| 2.2 | a) | Perimeter of a rectangle = 2(l +b) = 2(7.5 cm✓+3.5cm✓SF) = 2cm = **22cm**✓AArea of a rectangle = length breadth = 7.5cmcm✓SF = **26.25 cm2**✓A | 2SF1A1SF1A |
|  |  |  |  |
| 2.3 | 2.3.1 | No✓A. The chance is (there are 6 equal-sized segments✓O) | 1A2O |
|  |  |  |  |
|  | 2.3.2 | What is the probability of getting yellowP(getting yellow) = or 0.16 or 16.7%✓S  | 2MA1S |
|  |  |  |  |
|  | 2.3.3  | P(getting black) = ✓MA= ✓S= 0.33✓CA or 33.3%✓CA | 1MA1S1CA |
|  |  |  |  |
|  |  |  |  |
| **Question 3** |  |  |
| 3.1.1 | a) | 5 rows✓✓A  | 2A |
|  |  |  |  |
|  | b) | 6 rows✓✓A  | 2A |
|  |  |  |  |
|  | c) | F11✓✓A  | 2A |
|  |  |  |  |
|  | d) | D11✓✓A  | 2A |
|  |  |  |  |
|  | e) | B16✓✓A  | 2A |
|  |  |  |  |
|  | f) | B15✓✓A  | 2A |
|  |  |  |  |