**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 M  This means that the amount of R25✓ is incorrect and should be replaced with R23 | 1RT  1S – simplification  1CA  1O- conclusion |
|  |  |  |  |
|  | 1.1.2 | Correct balance = R20 575.01 + R1✓✓MA  = R20 576.01✓CA | 2MA  1CA |
|  |  |  |  |
|  | 1.1.3 | R3 600✓✓RT | 2RT |
|  |  |  |  |
|  | 1.1.4 | Bank fees = R23+ R2.50 R1✓MA = R31.50✓A | 2MA- for adding up  1A |
|  |  |  |  |
|  | 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 off  1O- 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 stop  1A- closed  1O |
|  |  |  |  |
|  | 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 4  1A last 4 |
|  |  |  |  |
| 2.2 | a) | Perimeter of a rectangle = 2(l +b)  = 2(7.5 cm✓+3.5cm✓SF)  = 2cm  = **22cm**✓A  Area of a rectangle = length breadth  = 7.5cmcm✓SF  = **26.25 cm2**✓A | 2SF  1A  1SF  1A |
|  |  |  |  |
| 2.3 | 2.3.1 | No✓A. The chance is (there are 6 equal-sized segments✓O) | 1A  2O |
|  |  |  |  |
|  | 2.3.2 | What is the probability of getting yellow  P(getting yellow) = or 0.16 or 16.7%✓S | 2MA  1S |
|  |  |  |  |
|  | 2.3.3 | P(getting black) = ✓MA= ✓S= 0.33✓CA or 33.3%✓CA | 1MA  1S  1CA |
|  |  |  |  |
|  |  |  |  |
| **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 |
|  |  |  |  |