Education and Sport Development

**Department of Education and Sport Development
Departement van Onderwys en Sport Ontwikkeling
Lefapha la Thuto le Tlhabololo ya Metshameko**

NORTH WEST PROVINCE

NATIONAL
SENIOR CERTIFICATE

GRADE 10

MATHEMATICAL LITERACY P1
JUNE 2018
MARKING GUIDELINE

MARKS: 50

SYMBOL	EXPLANATION
M	Method
M/A	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG	Reading from a table/Reading from a graph
F	Choosing the correct formula
SF	Correct substitution in a formula
O	Opinion/Example
P	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding off
J	Justification/Reason
NPR	No penalty for rounding
AO	Answer only, if correct, full marks

This marking guidelines consists of 3 pages

Marking guideline

QUESTION 1 [8 Marks]			
Ques	**Solution**	**Explanation**	**TL**
1.1	Catering $= R42\,570 \times \dfrac{30}{100}$ ✓ $= R\,12\,771$✓	1A method 1A answer **AO** (2)	L1

1.2	1 hour = 60 minutes✓
	
	 60 min = 50 marks
	    x = 3
	      $= \dfrac{60 \times 3}{50}$ ✓
	
	 = 3,6 minutes✓
		1C conversion
		 1M dividing
		
		 1A answer
		 AO
		
		        (3)
			L1

1.3	250g $= \dfrac{250}{1000}$
	       = 0,25 kg ✓
	 1 bundle = 0,25 kg
	      x = 3 kg
	 no of bundles $= \dfrac{3}{0,25}$ ✓
	        = 12 bundles ✓
	
	      OR
	 3kg $= 3 \times 1000$
	       = 3 000 g ✓
	 1 bundle = 250 g
	      x = 3 000 g
	 no of bundles $= \dfrac{3\,000}{250}$ ✓
	      = 12 bundles ✓
		1A conversion
		 1 A division
		 1A for answer
		 AO (3)
			L1

QUESTION 2 [16 Marks]			
2.1	Opening balance = R1 107,61✓✓	2RT for answer (2)	L1
2.2	Mr MJ Kraai ✓✓	2RT for answer (2)	L1
2.3	Bank charges = R1,10 + R55 + R56✓ = R112,10✓	1M addition 1A answer **AO** (2)	L1

2.4	Balance = R13 000 + R13 840,21✓
	       = R 26 840,21 ✓
	 Closing balance = R26 840,21 – R112,10 ✓
	       = R26 728,11✓
		1M addition
		 1A answer
		 1CA subtracting from 2.3
		 1CA answer
		      (4)
			L3

2.5	Interest = R6 314,62 – R5 500 ✓ = R814,62 ✓	1 MA subtracting 1A answer **AO** (2)	L1

Marking guideline

2.6.1	Amount deposited✓✓	2RT for answer (2)	L1
2.6.2	R72,00✓ ✓	2 RT for answer (2)	L1
QUESTION 3 [8 Marks]			
3.1	150:270 ✓ 5: 9 ✓	1A correct values 1CA simplification **AO** (2)	
3.2	R240,00✓✓	2RT for answer (2)	L1
3.3	Return trip $= 360 \times 2$ ✓ $= 720$✓ Total travelling cost $= 720 \times 12$✓ $= $ R8 640,00✓	1M multiplying 360 by 2 1CA simplifying 1M multiplying by 12 1CA total cost (4)	L2
QUESTION 4 [11 marks]			
4.1	Length $= \dfrac{760}{100}$ $= 7,6$ m ✓ Length of rectangular bedroom $= 7,6 - 2,4$ ✓ $= 5,2$ m ✓	1C conversion 1M subtracting 2,4 1CA answer (3)	L1
4.2	Perimeter $= 2(l + b)$ $= 2 (5,2 + 4,2)$ ✓ $= 18,8$ m✓	1A method 1CA answer **AO** (2)	L2
4.3	Area $= 5,2 \times 4,2$ ✓ $= 21,84$ m^2 ✓	1CA substitution 1CA answer **AO** (2)	L2
4.4	Area $= \dfrac{1}{2}\pi r^2$ $= \dfrac{1}{2} \times (3,142) (2,4)^2$ ✓ $= 9,05$ m^2 ✓	1A substitution 1A answer **NPR** (2)	L2
4.5	Total area $= 21,84 + 9,05$ ✓ $= 30,89$m^2 ✓	1M addition from 4.2 and 4.3 1CA for answer **AO** (2)	L1
QUESTION 5 [7 marks]			
5.1	3 ✓✓	2RT for answer (2)	L2
5.2	walk straight from the entrance and turn right ✓between customer service and boys clothing section go straight towards appliance section and turn left ✓and go down towards toys section.	1A turn right 1A turn left (2)	L2
5.3	1mm represent 200mm on the ground. 80mm represents 80mm $\times 200$✓ $= 16\,000$✓ $= \dfrac{16\,000}{1000}$ $= 16$ m ✓	1M multiplying 1A answer 1CA conversion (3)	L2