



# Education and Sport Development

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**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

<b>QUESTION 1 [ 8 Marks]</b>			
<b>Ques</b>	<b>Solution</b>	<b>Explanation</b>	<b>TL</b>
1.1	$\text{Catering} = \text{R}42\,570 \times \frac{30}{100} \checkmark$ $= \text{R}12\,771 \checkmark$	1A method 1A answer <b>AO</b> (2)	L1
1.2	$1 \text{ hour} = 60 \text{ minutes} \checkmark$ $60 \text{ min} = 50 \text{ marks}$ $x = 3$ $= \frac{60 \times 3}{50} \checkmark$ $= 3,6 \text{ minutes} \checkmark$	1C conversion 1M dividing  1A answer <b>AO</b> (3)	L1
1.3	$250\text{g} = \frac{250}{1000}$ $= 0,25 \text{ kg} \checkmark$ $1 \text{ bundle} = 0,25 \text{ kg}$ $x = 3 \text{ kg}$ $\text{no of bundles} = \frac{3}{0,25} \checkmark$ $= 12 \text{ bundles} \checkmark$ <p style="text-align: center;"><b>OR</b></p> $3\text{kg} = 3 \times 1000$ $= 3\,000 \text{ g} \checkmark$ $1 \text{ bundle} = 250 \text{ g}$ $x = 3\,000 \text{ g}$ $\text{no of bundles} = \frac{3\,000}{250} \checkmark$ $= 12 \text{ bundles} \checkmark$	1A conversion 1 A division 1A for answer <b>AO</b> (3)	L1
<b>QUESTION 2 [16 Marks]</b>			
2.1	Opening balance = R1 107,61 ✓✓	2RT for answer (2)	L1
2.2	Mr MJ Kraai ✓✓	2RT for answer (2)	L1
2.3	$\text{Bank charges} = \text{R}1,10 + \text{R}55 + \text{R}56 \checkmark$ $= \text{R}112,10 \checkmark$	1M addition 1A answer <b>AO</b> (2)	L1
2.4	$\text{Balance} = \text{R}13\,000 + \text{R}13\,840,21 \checkmark$ $= \text{R}26\,840,21 \checkmark$ $\text{Closing balance} = \text{R}26\,840,21 - \text{R}112,10 \checkmark$ $= \text{R}26\,728,11 \checkmark$	1M addition 1A answer 1CA subtracting from 2.3 1CA answer (4)	L3
2.5	$\text{Interest} = \text{R}6\,314,62 - \text{R}5\,500 \checkmark$ $= \text{R}814,62 \checkmark$	1 MA subtracting 1A answer <b>AO</b> (2)	L1

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2.6.1	Amount deposited ✓✓	2RT for answer (2)	L1
2.6.2	R72,00 ✓✓	2 RT for answer (2)	L1
<b>QUESTION 3 [ 8 Marks]</b>			
3.1	150:270 ✓ 5: 9 ✓	1A correct values 1CA simplification <b>AO</b> (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
<b>QUESTION 4 [ 11 marks]</b>			
4.1	Length = $\frac{760}{100}$ = 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 = $2(1 + b)$ = $2(5,2 + 4,2)$ ✓ = 18,8 m ✓	1A method 1CA answer <b>AO</b> (2)	L2
4.3	Area = $5,2 \times 4,2$ ✓ = 21,84 m <sup>2</sup> ✓	1CA substitution 1CA answer <b>AO</b> (2)	L2
4.4	Area = $\frac{1}{2} \pi r^2$ = $\frac{1}{2} \times (3,142) (2,4)^2$ ✓ = 9,05 m <sup>2</sup> ✓	1A substitution 1A answer <b>NPR</b> (2)	L2
4.5	Total area = $21,84 + 9,05$ ✓ = 30,89 m <sup>2</sup> ✓	1M addition from 4.2 and 4.3 1CA for answer <b>AO</b> (2)	L1
<b>QUESTION 5 [ 7 marks]</b>			
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 $80 \text{mm} \times 200$ ✓ = 16 000 ✓ = $\frac{16000}{1000}$ = 16 m ✓	1M multiplying 1A answer 1CA conversion (3)	L2