



Education and Sport Development

Department of Education and Sport Development
Departement van Onderwys en Sport Ontwikkeling
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NORTH WEST PROVINCE

NATIONAL SENIOR CERTIFICATE

GRADE 10

MATHEMATICAL LITERACY P2 JUNE EXAMINATION 2019 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

This marking guideline consists of 4 papers.

Ques1	Explanation	Explanation	TL
1.1	$\text{Area} = L \times B$ $= 3\,700\text{mm} \times 600\text{mm} \checkmark$ $= 2\,220\,000\text{mm} \checkmark$ $= 222\,000\text{cm}^2 \checkmark$	1 Conversion 1 substitution 1 A (3)	2
1.2	One wheel barrow = 2 cm^2 of tar The area for one Speed Hump = 40cm^2 \therefore to build one Speed Humps = $\frac{40}{2} \checkmark$ $= 20 \checkmark$ wheel barrows will be need But for 4 for four Speed humps the contractor needs : 20×4 $= 160$ wheel barrows \checkmark	1 Multiplication 1 CA 1 CA (3)	3
1.3	One Speed Hump = R3 405,00 Four Speed Humps = $R3\,405,00 \times 4 \checkmark$ $= R13\,620,00 \checkmark$	1 Multiplication 1 A (2)	2
1.4	To be visible to drivers $\checkmark \checkmark$ Any relevant answer	2 Opinion (2)	4
1.5	a. To reduce accidents $\checkmark \checkmark$ b. To reduce speed of speeding cars $\checkmark \checkmark$ Any relevant answer	4 Reasons (4)	4
		[14]	

Ques2	Explanation	Explanation	TL
2.1.1	$\text{Fee for 2017(A)} = R3,00 + R1,30 / R100$ $= R3,00 + 0,013 \times R500 \checkmark \checkmark$ $= R3,00 + 6,5$ $= R9,50 \checkmark$ $\text{Fee for 2018} = R10,70$ $\text{Difference in price} = R10,70 - R9,50$ $= R1,20 \checkmark$ <p style="text-align: center;">OR</p> $\text{Fee for 2017(A)} = 1,3 \times 5 \checkmark + 3 \checkmark$ $= R9,50 \checkmark$ $\text{Fee for 2018} = R10,70$ $\text{Difference in price} = R10,70 - R9,50$ $= R1,20 \checkmark$	1SF 1M Multiply by 500 1CA 1CA Difference 1M Multiply by 5 1M addition of 3 1CA 1CA Difference (4)	3

2.1.2	<p>Percentage change: Withdrawal (Own Bank)</p> $= \frac{10,70 - 10,45}{10,45} \times 100\% \checkmark$ $= 2,4\% \checkmark$ <p>Percentage change: Withdrawal (Other Bank)</p> $= \frac{16,70 - 16,45}{16,95} \times 100\%$ $= 1,5\% \checkmark$ <p>50% more $1,5 \times 1,5$</p> $= 2,25\% \checkmark$ <p>$\therefore 2,25\% \neq 2,4\%$</p> <p>Statement is invalid \checkmark</p>	<p>1 Correct Formula 1 CA Percentage 1CA Percentage 1M 50% increase</p> <p>10 (5)</p>	4
2.2.1	<p>1 cup = 250 ml</p> $6\frac{1}{4} = ?$ $6\frac{1}{4} \times 250 \checkmark$ $= 1\ 562,5 \text{ ml} \checkmark$ <p>\therefore Mrs Moroke use 1 562,5ml of all-purpose flour \checkmark</p>	<p>1M multiply by 250 1A 1 concluding statement</p> <p>(3)</p>	3
2.2.2	<p>Perimeter = L + B + L + B</p> $= 22,86 + 12,7 + 22,85 + 12,7 \checkmark \checkmark$ $= 71,12 \text{ cm} \checkmark$	<p>1M substitution 1 addition 1A</p> <p>(3)</p>	2
2.2.3	<p>Total time = Mixing + Rising + Panning + Baking</p> $8\text{min} + 90\text{min} + 30\text{min} + 30\text{min} \checkmark$ $= 158$ $\frac{158}{60} \checkmark$ $= 2,63333 \text{ hours} \checkmark$ $= 2\text{hrs } 38\text{min} \checkmark$ <p>Statement not valid \checkmark</p>	<p>1M adding 1CA 1CA answer in hours 1CA conversion 1O</p> <p>(5)</p>	4
		[20]	

