



Education and Sport Development

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

NORTH WEST PROVINCE

GRADE 10

MATHEMATICAL LITERACY P2

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

This marking guideline consists of 4 pages

Ques 1	Solution	Explanation	Level
1.1.1	$A = R32\,100 + R3\,000$ $= R35\,100$	1 addition 1 answer (2)	2
1.1.2	Savings = $15\% \times R35\,100$ $= R5\,265$ Value of B = $R8\,000 + R1\,650 + R645 + R525 +$ $R500 + R2\,000 + R570 + R2\,000 + R1\,200 +$ $R5\,265 = R22\,355$	1M multiplying by 15% 1 Answer 1M addition for all values 1CA answer (4)	2
1.1.3	Salary before increment: $= 32\,100 \times \frac{100}{106,8}$ $= \frac{3\,210\,000}{106,8}$ $= R30\,056,18$ OR $32\,100 \div 1,068$ $= R30\,056,18$	1M multiplication by correct fraction 1 answer 1M division 1 answer (2)	3
1.1.4	They must change their budget and do it according to affordability. ✓✓ OR They must differentiate between needs and wants. ✓✓ Any other relevant answer.	2O Reason (2)	4
1.2	Arrival Time = $07:10 - 06:30$ $= 40 \text{ min}$	1 Subtraction 1 answer (2)	2
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Ques2	Explanation	Explanation	Level
2.1.1	Delivery cost = $R100 + R1,50 \times n$	1A R100 1A $R1,50 \times n$ (2)	2
2.1.2	Total costs for delivery = $100 + 414 \times 1,50$ $= R721,00$	1SF substitution 1CA answer (2)	2
2.1.3	Total cost of petrol = $R14,55 + R0,43$ $= R14,98$ He will pay = $R14,98 \times 65$ $= R973,70$	1M for addition 1A new amount 1M multiplication 1 answer (4)	3
2.2	Area of the Parcel = length \times breath $= 130 \text{ cm} \times 80 \text{ cm}$ $= 5\,400 \text{ cm}^2$	1SF substitution 1 answer (2)	2
[10]			

Ques3	Explanation	Explanation	Level
3.1	Guest to invite = $112\checkmark - 2\checkmark$ = 110 guests \checkmark	1RT number of seats 1M of subtraction 1CA number of guests (3)	2
3.2	For easy movement $\checkmark\checkmark$ OR Uncomfortable to sit on the short side $\checkmark\checkmark$ Any other relevant answer	2O Reason (2)	4
3.3	Walk pass the dance floor, pass the podium and turn left. $\checkmark\checkmark$ OR Any other relevant answer	1A Pass the dance floor 1A Direction (2)	4
3.4	Floor Area for hall = length \times width = $15,5 \text{ m} \times 9 \text{ m}\checkmark$ = $139,5 \text{ m}^2\checkmark$ Area of Dance floor = $\frac{1}{3} \times 139,5 \text{ m}^2 \checkmark$ = $46,5 \text{ m}^2\checkmark$	1SF Substitution 1CA Floor Area 1SF Substitution 1CA Area of dance floor (4)	3
3.5	VAT amount = $R1349 \times \frac{14}{114} \checkmark$ = $R165,67\checkmark$ OR Price Excluding VAT = $\frac{R1349}{1,14}$ = $R1 183,33\checkmark$ VAT amount = $R1 349 - R1 183,33$ = $R 165,67 \checkmark$	1M multiplying 1A answer 1A price Excluding VAT 1A VAT amount	2
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Ques4	Calculations	Explanation	Level
4.1	1 mm = 50 mm Then $370 \text{ mm} \times 50 = 18 50 \text{ mm} \checkmark$ $18 500 \text{ mm} / 1 000\checkmark$ = $18,5\text{m}\checkmark$	1M multiplying 1Conversion 1A (3)	3
4.2.1	$28 : 36\checkmark$ $14 : 28$ $7 : 9\checkmark$	1M-ratio 1A in simplified form (2)	2
4.2.2	$28 + 36 = 64\checkmark$ Mpho: $1 280 \times 28 \div 64\checkmark$ $35 840 \div 64$ $R560,00\checkmark$ Tebogo: $1 280 \times 36 \div 64$ $46 080 \div 64$ $R720,00\checkmark$	1M addition of ratios 1M multiplication 1A answer for Mpho 1A answer for Tebogo (4)	3

	OR $7 + 9 = 16$ Mpho : $\frac{7}{16} \times R1\ 282 \checkmark$ $= R560 \checkmark$ Tebogo : $\frac{9}{16} \times R1\ 280 \checkmark$ $= R720 \checkmark$		
4.3.1	37 hours – 24 hrs =13. Therefore it will take Mpho 1day \checkmark and 13hrs. \checkmark	1M day 1M hours (2)	2
4..3.2	30 th June \checkmark 23:00 \checkmark	1A date 1A time (2)	2
4.3.3	Resting $\checkmark\checkmark$ OR Sight-seeing $\checkmark\checkmark$ OR Tyre puncture $\checkmark\checkmark$ Any other relevant answer	2R reason (2)	4
		[15]	

TOTAL [50]