



Education and Sport Development

NATIONAL SENIOR CERTIFICATE

Development
wikkeling
Letapnana
Tlato le Tlato
ya metshameko

NORTH WEST PROVINCE

GRADE 10

MATHEMATICAL LITERACY P1

JUNE 2017

MEMORANDUM

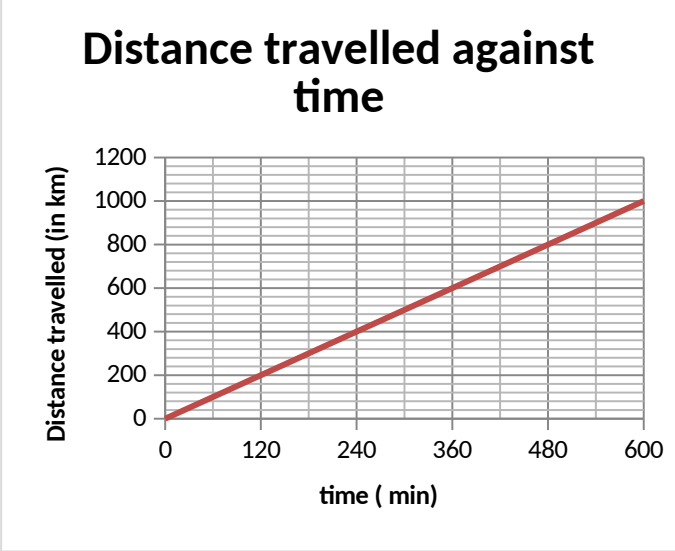
MARKS: 50

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 memorandum consists of 4 pages

QUESTION 1 [12 Marks]

Ques	Solution	Explanation	TL
1.1	Opening balance = R4 206,22 ✓✓	2RT reading from a table (2)	L1
1.2	Closing balance = 4 206,22 + 461,25 + 89 ✓ – 690 ✓ = R4 066,47 ✓	1A adding 1A subtracting 1A answer (3)	L1
1.3	On the 26 th November 2016 ✓ and at Hatfield ✓	1RT date 1RT place (2)	L1
1.4	A = 5 000 ✓ – 4066,47 = R933,53 ✓	1A identify 5 000 1A correct value (2)	L1
1.5.	$\% \text{ discount} = \frac{\text{old price} - \text{sale price}}{\text{old price}} \times 100 \quad \checkmark \quad 100\%$ $= \frac{120 - 89}{120} \times 100 \quad \checkmark$ $= 25,833... \% \quad \checkmark$ $= 26\% \quad \checkmark$	1SF substitute in the formula 1A simplify 1R rounding to whole percentage (3)	L2
QUESTION 2 [10 Marks]			
2.1	Meter of ribbon = 10 cm \checkmark 30 ✓ = 300cm ✓ = 3 m ✓	1M multiplying the correct values 1A simplifying 1C conversion (3)	L1
2.2	Concentrate : parts of water 1: 3 2 000 : m ^ℓ of water m ^ℓ of water = 2 000 \checkmark 3 ✓ = 6 000 m ^ℓ ✓	1A multiplying 1CA answer (2)	L1
2.3	Amount of Juice = 2 000 + 6 000 ✓ = 8 000 m ^ℓ ✓	1CA addition 1CA value (2)	L1
2.4	Starting time = 09:47 ✓ Finishing time = 18:15 Period of the party = 18:15 – 09:47 ✓ = 8 hours 28 minutes ✓ Accept 09:48 Starting time 09:48 ✓ Period of the party = 18:15 – 09:48 ✓ = 8 hours 27 minutes ✓	1RT reading time 1A subtracting 1A simplifying (3)	L2
QUESTION 3 [8 marks]			
3.1	8 bathrooms ✓✓	2RT Reading from the table (2)	L2

3.2	Length on the map = 5,3 cm Actual length = 50 5,3 cm ✓ = 2 650 cm ✓ = 26,5 m ✓	1 M multiplying 1A simplifying 1C conversion (3)	L2
3.3	From the playground pass between junior kindergarten11 and kindergarten. Turn left at the corner of the kindergarten ✓ and turn right at the corner of multipurpose room ✓. Pass front entrance and office A is on the left. ✓	1A turn left 1A turn right 1A office A on the left (3)	L2
QUESTION 4 [20 marks]			
4.1	Hundred and twenty seven thousand nine hundred and thirty two ✓ ✓	2A word format (2)	L1
4.2	Odometer reading = 127 932 + 876,70 ✓ = 128 808, 70 km ✓	1MA adding 1A answer (2)	L1
4.3	$\frac{925,48}{13,12}$ Litres of diesel = 13,12 ✓ = 70,54 ℓ ✓ $\frac{70,54 \times 100}{9}$ km travelled = 9 ✓ = 783,78 km ✓	1A division 1A simplifying 1CA method 1CA answer (4)	L3
4.4.1	Total Cost = 2 ₤ 11,99 + 18,98 + 38,99 ✓ = R 81,95 ✓	1 A addition 1CA answer (2)	L1
4.4.2	Change = 90 ✓ - 81,95 = R8,05 ✓	1M subtracting 1CA answer (2)	L1
4.5	Distance travelled against time 	1 A (0,0) 2A for each two correctly plotted points 1A for joining points (4)	L2
4.6.1	35% ✓ ✓	1RT reading table (2)	L1
4.6.2	Saturday ✓ ✓	2RT reading table (2)	L1
Total			50

SUMMARY OF TAXONOMY LEVELS

LEVELS	QUES1	QUES 2	QUES 3	QUES 4	TOTAL	PERCENTAGES
L1	9	8		12	29	58
L2	3	2	8	4	17	34
L3				4	4	8
TOTAL	12	10	8	20	50	100%

TOPICS	TOTAL MARKS	PERCENTAGES	CAPS WEIGHTING
Finance	20	40%	35% (\pm 5%)
Measurements	18	36%	20% (\pm 5%)
Maps, plans and other representations	8	16%	15% (\pm 5%)
Probability	4	8 %	Min 5%
TOTAL	50	100%	100%

