



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 10

MATHEMATICAL LITERACY

COMMON TEST

JUNE 2022

MARKING GUIDELINE

MARKS: 100

Stanmorephysics.com

SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy(Answer)
C	Conversion
S	Simplification
RT/RG/RD	Reading from a table/ graph/ diagram
NPR	No penalty for units/rounding
SF	Correct substitution in a formula
O	Opinion/ reason/deduction/example
J	Justification
R	Rounding off/
F	deriving a formula
E	Explanation
U	Units
AO	Answer only full marks

This marking guideline consists of 5 pages.

	QUESTION 1 [28 MARKS]	ANSWER ONLY FULL MARKS	
QUE	SOLUTION	EXPLANATION	TL
1.1.1	Mode is the type of a car that appear more than the other cars✓✓A	2A, Answer (2)	L1 DH
1.1.2	Observation ✓✓A	2A, Answer (2)	L1 DH
1.1.3	Discrete ✓✓A	2A, Answer (2)	L1 DH
1.1.4	1 1 1 1 1 1 1 1 2 2 7✓✓A	2A, Answer (2)	L1 DH
1.1.5	1 : 2✓✓A	2A, Answer (2)	L1 F
1.1.6	19 ✓✓A	1A, Answer (2)	L1 DH
1.1.7	$P(\text{Dodge}) = \frac{1}{19}$ OR 0,05 OR 5,26%✓✓A	2 A, Answer (2)	L1 P
1.1.8	Amount received = 50×7 ✓M = R350✓A	1M., multiplying all correct values 1A, Answer (2)	L1 F
1.2.1	Beurer Kitchen Scale KS 25✓✓A	2A, Answer (2)	L1 M
1.2.2	Grams✓✓A	2A, Answer (2)	L1 M
1.2.3	3000g✓✓A	2A, Answer (2)	L1 M
1.2.4	✓M $5 \times 12 = 60$ months✓A	1M, multiplying by 12 1A, Answer (2)	L1 M
1.2.5	$P(\frac{1}{7}) = 0,14$ ✓✓A	2 A, Answer (2)	L1 P
1.2.6	Number Scale✓A	1M., multiplying all correct values 1A, Answer (2)	L1 MP
			[28]

QUE	QUESTION 2 [22 MARKS]	EXPLANATION	L
2.1.1	Monthly Income is the income received by Miss Nkala per month ✓✓A	1A, Answer (2)	L1 F
2.1.2	$A = \frac{9}{100} \times R32\,150 \text{ ✓MA}$ $A = R\,2893,50 \text{ ✓✓A}$	1MA, multiplying correct values 2A, answer AO (3)	L2 F
2.1.3	$\text{Total Expenditure} = (R1\,260 + R5\,600 + R2\,320 + R1\,420 + R340 + R1\,150 + R2\,950 + R1\,400 + R2\,900 + R850 + R1\,250 + R900 + R800 + R750 + R2\,893,50) = R26\,783,50 \text{ ✓✓A}$	CA from 2.1.2 1M, adding all value 2A, Answer (3)	L3 F
2.1.4 a)	Option 1 $= R750 \times 3 \text{ ✓M}$ $= R2\,250 \text{ ✓A}$ Option 2 $= R1400 \times 3 \text{ ✓M}$ $= R4\,200 \text{ ✓A}$ \therefore Option 1 is the cheapest ✓J	1M, multiplying correct values 1A, answer 1M, multiplying correct values 1A, answer 1J, justification (5)	L3 F
b)	Access to many entertainment facilities ✓✓A OR All meals are included ✓✓A Accept any valid reason	2A, reasoning (2)	L4 F
2.2.1	6h30min = 7hours R45 ✓✓RT	2RT, Answer (2)	L2 F
2.2.2	Cost $= 6 \times 100 \text{ ✓M}$ $= R600 \text{ ✓A}$ Lost ticket $= R\,500 \text{ ✓RT}$ \therefore Claim is valid ✓✓O	1M, multiplying correct 1A, Answer 1RT, lost ticket 2O, conclusion (5)	L3 F
[22]			

QUESTION 3 [13 MARKS]			
QUE	SOLUTION	EXPLANATION	TL
3.1	Mode 10A = 30 ✓✓ A	2A, Answer (2)	L1 DH
3.2	44 35 32 30 30 ✓✓ A	2A, all values correctly arranged (2)	L2 DH
3.3	10% = 5 ✓ A 10% × 10 = 100% ✓ M 5 × 10 = 50 ✓✓ A	1A, 10% = 5 Answer 1M, multiplying 10% × 10 2A, Answer (4) AO	L3 F
3.4	Grade 10 B ✓ A The highest learners if from 10B. ✓✓ E Any valid reason	1A, choice 2E, explanation (3)	L4 DH
3.5	Range = 44 - 31 ✓ M = 13 ✓ A	1M, subtracting correct value 1A, Answer (2)	L2 DH
[13]			

QUE	QUESTION 4 [19 MARKS]	EXPLANATION	L
4.1.1	Distance in km = $\frac{15\,000}{1000}$ ✓ M = 15 km ✓ A	1M, dividing by 100 1A, Answer (2)	L1 MP
4.1.2	South or South West ✓✓ A	2A, answer (2)	L2 MP
4.1.3	KwaZulu- Natal ✓✓ A	2A, Answer (2)	L2 MP
4.1.4	Number of hours = $\frac{330\,km}{120\,km}$ ✓ MA = 2,75h ✓ S = 2h45minutes ✓ A	1MA, dividing 1S, Simplification 1A, Answer in hour and minutes (3)	L3 MP
4.2.1	<ul style="list-style-type: none"> Empangeni ✓ RT Richards Bay ✓ RT 	1RT, correct town 1RT, correct town (2)	L2 MP
4.2.2	Number of litres = $\frac{660\,km}{R19,63}$ ✓ MA = 33,62 l ✓ A ≈ 34 l ✓ R	1MA, dividing correct values 1A, Answer 1R, correct rounding (3)	L2 MP

4.2.3	Total Amount = $34 \times R19,83$ ✓M = R673,20✓A = R675,00✓R	CA from 4.2.2 1M, multiplying correct values 1A, Answer 1R Rounding (3)	L3 MP
4.2.4	Boarder✓✓A	2A, Answer (2)	L4 MP
[19]			

QUESTION 5[18 Marks]			
QUE	SOLUTION	EXPLANATION	TL
5.1	6 people✓✓A	2A, Answer (2)	L1 M
5.2	Amount in millilitres = $4 \times 236,58$ ✓M = 946,36 ml ✓ A	1M, multiplying correct values 1A, answer (2)	L2 M
5.3	Total cooking time in minutes = 20minutes✓A Cooking time in hours = $\frac{20min}{60min}$ ✓C = 0,33 hours✓R	1A, adding preparation and cooking time 1C, converting minutes to hours 1R, rounding (3)	L3 M
5.4	$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \div 1,8$ = $(356 - 32) \div 1,8$ ✓SF = $(324^{\circ}) \div 1,8$ ✓S = 180°C ✓A	1SF, correct substitution 1S, simplification 1A, correct answer (3)	L2 M
5.5	Number of ingredients = $\frac{36}{6}$ ✓M = 6 Baking duration for 36 people = $\frac{120 min}{60 min}$ ✓C = 2 hours✓M The statement is valid✓O	1M, dividing 36 by 6 1C, conversion 1A, Answer 1O, opinion (4)	L4 M
5.6	To give a taste to the scones ✓✓A Any valid reason	2A, Answer (2)	L4 M
5.7	Amount of lemonade = 300×6 ✓M = 1800 ml✓A	1M, multiplying correct values 1A, Answer (2)	L2 M
[18]			
[100]			