KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

MATHEMATICAL LITERACY P2

COMMON TEST

JUNE 2023

MARKING GUIDELINE

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MARKS: 75

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.

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QUESTION 1 [17 MARKS]		ANSWER ONLY FULL MARKS	
QUE	**SOLUTION**	**EXPLANATION**	**T/L**
1.1.1	3,3inch = 8,4cm 3,3 3,3 ✓M 1 inch = 2,5454…cm ✓CA	1M, Dividing by 3,3 both sides 1CA, Answer of 2, 5454...cm **NPR** (2)	M L1
1.1.2a	4 ounce = 113,4g Weight = 9/4 × 113,4g ✓M = 255,15g ✓CA	1M, Conversion to g 1CA, Answer **NPR** (2)	M L1
1.1.2b	Time = 9/4 × 30 hours ✓M = 67,5hours ✓CA	1M, Conversion to hours 1CA, Answer **NPR** (2)	M L1
1.2.1	Probability is the measure of how likely something is to happen. ✓✓A	2A, Definition (2)	P L1
1.2.2	P (same colour candle) = 4 + 7/14 ✓M ✓M = 11/14 ✓CA	1M, Addition 1M, Denominator 1CA, Answer **Max 2 marks if numerator= 4 or 7** (3)	P L1
1.3.1	Marlboro ✓✓A	2A, Marlboro **Accept Sandton** (2)	MP L1
1.3.2	4 stations ✓✓A	2A, Number of Metro rails (2)	MP L1
1.3.3	Distance = 80km ×1 000 ✓MA = 80 000m ✓A	1MA, Multiplying by 1000 1A, Answer (2)	M L1
		[17]	

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QUESTION 2[23 MARKS]			
QUE	**SOLUTION**	**EXPLANATION**	**T/L**
2.1.1	Bar scale ✓✓A **OR** line-scale ✓✓A	2A, Answer (2)	MP L1
2.1.2	Distance = 17,5km – 6km ✓ MA = 11,5km✓A	1MA, Subtracting correct values 1A, Answer **AO** (2)	MP L2
2.1.3	North East✓✓A **OR** NE ✓✓A	2A, Correct General direction (2)	MP L2
2.1.4	7 main plants. ✓✓A	2A, Correct Number of main plants (2)	MP L2
2.1.5	2,5cm: 5km ✓M 1,8cm: Distance Distance = $\frac{1,8cm}{2,5cm} \times 5km$ ✓MA = 3,6km ✓CA	1M, Correct measurement 1MA, Using the scale 1CA, Actual distance in km **Measurement allow ± 0,2cm** (3)	MP L3
2.2.1	Ratio: $\frac{99,4194 \text{ miles}}{99,4194} = \frac{160km}{99,4194}$ ✓CA ✓M 1 mile = 1,609…km	1A, Ratio concept 1M, Dividing by 99,4194 on both sides (2)	M L2
2.2.2	Area = $\frac{1495}{100}$ × 1 ✓M = 14,95m^2 ✓A	1M, Dividing by 100 1A, Answer (2)	M L2
2.2.3	Decades = 2023 – 1976✓MA = $\frac{47}{10}$ years ✓MA = 4,7 years ✓A ≈ 4 decades ✓R	1MA, Subtracting correct years 1MA, Dividing by 10 1A, Number of decades 1R, Rounding (4)	M L3
2.2.4	Time in hours = 13hrs +(50÷60)=13,83333..hrs ✓1M Speed = $\frac{9532km}{13,8333..hrs}$ ✓SF = 688,9079 ✓CA ≈ 700km/h✓R	1M, Converting 50min to hours 1SF, Substitution and simplification 1CA, Answer 1R, Rounding (4)	M L3
		[23]	

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QUESTION 3 [20 MARKS]			
QUE	**SOLUTION**	**EXPLANATION**	**T/L**
3.1.1	Perimeter is the total length around the fence of Ngwelezane clinic. ✓✓E	2E, Definition **1 Mark for general definition** (2)	M L1
3.1.2	✓SF P = 2×120m + 2×70m✓S = 380m ✓A	1SF, Correct substitution 1S, Simplification 1A, Answer (3)	M L2
3.1.3	Width of the gate = $\frac{5,7}{100}$ ×70m✓M =3,99 ✓CA =4m ✓R	1M, Multiplying percentage by 70m 1CA, Answer 1R, Rounding (3)	M L3
3.1.4	B ✓✓A	2A, Answer (2)	M L1
3.1.5	• To have one access point to the clinic✓✓O **OR** • For safety reasons✓✓O **OR** • To protect medicine/employees✓✓O	2O, Reason (2)	M L4
3.2.1	✓SF °F= 25×1,8 +32 ✓S = 77°F ✓A	1SF, Correct substitution 1S, Simplification 1A, Answer (3)	M L3
3.2.2	Number of days = $\frac{200ml}{5ml}$ ✓M = $\frac{40}{4}$ ✓MCA = 10 ✓A	1M, Dividing by 5ml 1MCA, correct no of hours 1A, Correct number of days (3)	M L3
3.2.3	To avoid vomiting ✓✓O **OR** Overdosing can create side effects✓✓O **OR** Addiction ✓✓O **OR** Accept any other valid reason	2O, Opinion (2)	M L4
		[20]	

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QUESTION 4 [15 MARKS]			
QUE	**SOLUTION**	**EXPLANATION**	**T/L**
4.1	One unit on the seating plan of the bus will represent forty units in reality. ✓✓E	2E, Explanation (2)	MP L1
4.2	• Move from seat 11 and turn **south** towards the isle, ✓A • Turn **west** and move toward the front, ✓A • Turn **north** on seat four seat three will be next to the window. ✓A **OR** • Move from seat 11 and turn **left** towards the isle, ✓A • Turn **right** and move toward the front, ✓A • turn **right** on seat four seat three will be next to the window. ✓A	1A, South 1A, West 1A, North **OR** 1A, Left 1A, Right 1A, Second Right (3)	MP L4
4.3	Actual length = $\frac{15,7cm}{100}$ ×40 ✓RT ✓MCA = 6,28✓CA = 6,3m ✓R	1RT, Correct measured length 1MCA, Dividing by 100 1CA, Answer 1R, Rounding (4)	MP L3
4.4	✓M P (Odd seat) = $\frac{6}{17}$ × 100% ✓MA = 35,29% ✓CA	1M, Number of odd seats 1MA, Percentage concept 1CA, Answer as % (3)	MP L4
4.5	Area = length x breadth ✓F = 6,3m × 2,6m ✓SF = 16,38m^2✓CA	**CA from 4.3** 1F, Correct Formula 1SF, Correct substitution 1CA, Answer (3)	M L2
		[15]	
		TOTAL MARKS: 75	

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