KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

MATHEMATICAL LITERACY P2

PROVINCIAL STANDARDISED ASSESSMENT

JUNE 2026

MARKING GUIDELINE

MARKS: 75

SYMBOL	EXPLANATION
MA	Method with accuracy
MCA	Method with Consistent accuracy
CA	Consistent accuracy
A	Accuracy (Answer)
C	Conversion
RT	Reading from a table/ graph/ diagram/ document
SF	Correct substitution in a formula
O	Opinion/ explanation/ reason/deduction/example
P	Penalty e.g. for no units, incorrect rounding off
S	Simplification
R	Rounding off
NPR	No penalty for correct rounding
NPU	No penalty for omitting units, but wrong unit is penalised
AO	Answer only full marks

This marking guideline consists of 5 pages.

NOTE:

- *If a learner answers a question TWICE, only mark the FIRST attempt.*
- *If a learner has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.*
- *Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however, it stops at the second calculation error.*
  NOTE: consistent accuracy does not apply in case of a breakdown.
- *If the learner presents extra solution when reading from the graph, table, layout plan and map, then penalise for every extra item presented.*
- *Rounding is an independent mark.*
- *General principle of making, if a learner has made one mistake and there is evidence of sound mathematics thereafter, then that learner should lose one mark only.*
- *A conclusion mark can only be given if relevant calculations precedes it. At least a ⅓ of mark before conclusion.*
- *No penalty for rounding (NPR) if the first decimal is correct, except for questions involving money.*

QUESTION 1 [16] ANSWER ONLY FULL MARKS			
QUE	**SOLUTION**	**EXPLANATION**	**T&L**
1.1.1	Is twice the radius of the drum. ✓✓O **OR** Is the distance from the edge of the drum through the centre to the other side edge. ✓✓O	2O explanation (2)	M L1 E
1.1.2	Radius = $\frac{560mm}{2}$ ✓MA = 280mm✓A	1MA dividing diameter by 2 1A answer (2)	M L1 E
1.1.3	Height in metres = $\frac{88cm}{100}$ ✓C = 0,88 m✓A	1C conversion 1A answer (2)	M L1 E
1.1.4	C✓✓A	2A answer **Accept 0,4928m²** (2)	M L1 M
1.2.1	2✓✓RT	2RT correct number of fire exits (2)	MP L1 E
1.2.2	Trainer resource area.✓✓RT	2RT correct room (2)	MP L1 E
1.2.3	Area of the workstation = 9% × 800 m² ✓MA = 72 m² ✓A	1MA multiplying by 9% 1A answer (2)	M L1 M
1.2.4	$\frac{5cm}{5}$: $\frac{40m}{5}$ ✓MA 1cm : 8m✓A	1MA dividing correct scale by 5 1A simplification (2)	MP L1 E
			[16]

QUESTION 2[16]			
QUE	**SOLUTION**	**EXPLANATION**	**T&L**
2.1.1	N3✓✓RT	2RT correct road (2)	MP L1 E
2.1.2	South West ✓✓A **OR** SW✓✓A	2A correct direction (2)	MP L2 E
2.1.3	M35 ✓✓RT	2RT correct route (2)	MP L2 E
2.2.1	Number of litres = $\frac{24,9km}{100km}$ × 9,5 litres✓MA = 2,3655litres × 2✓MCA = 4,73 litres✓CA **OR** ✓MA Number of litres = $\frac{24,9km \times 9,5\ litres \times 2}{100km}$ ✓MA = 4,73litres✓CA	1MA correct rate usage 1MCA multiplying by 2 1CA simplification **OR** 1MA correct rate usage 1MA multiplying by 2 1CA simplification (3)	MP L3 E
2.2.2	Duration = 0,6667hrs × 60✓C = 40 minutes✓A ✓MCA ✓MA Arrival time = 08:45 + 40 min + 40 min + 25 min = 10:30✓CA **OR** ✓C ✓MA Duration = 25min ÷ 60 + (0,6667hrs x 2) = 0,416666hrs + 1,3334hrs = 1,75hrs✓A = 1hr 45min Arrival time = 08:45 + 1hr 45min ✓MCA = 10:30✓CA	1C multiplying by 60 1A simplification 1MCA adding 40min x 2 1MA adding 25min 1CA arrival time **OR** 1C dividing by 60 1MA multiplying by 2 1A correct duration 1MCA adding duration 1CA arrival time (5)	MP L4 M
2.2.3	The national route has less traffic congestion ✓✓O **OR** The national road has a high-speed limit ✓✓O **OR** Metropolitan Road passes through towns/townships ✓✓O **OR** The Metropolitan route has fewer lanes ✓✓O **OR** Metropolitan route has traffic lights/calming ✓✓O **OR** Road works / stop and go ✓✓O	2O opinion (2)	MP L4 E
			[16]

QUESTION 3 [24]			
QUE	**SOLUTION**	**EXPLANATION**	**T&L**
3.1.1	Circumference of the base of the cylinder $= 2 \times 3,142 \times 16cm$ ✓SF $= 100,544cm$ ✓A	 1SF correct substitution 1A answer (2)	M L2 E
3.1.2	Length in cm = 238mm ÷ 10 ✓C = 23,8cm Volume of a rectangular prism = 23,8cm × 23,8cm × 35cm ✓SF = 19 825,4cm^3 ✓CA	1C dividing by 10 1SF correct substitution 1CA correct volume (3)	M L3 M
3.1.3	Capacity = $\frac{19\ 825,4cm^3}{1000}$ ✓C = 19,8254 ✓CA ≈ 19 litres ✓R	**CA from 3.1.2** 1C converting cm^3 to litres 1CA answer 1R rounding (3)	M L1 D
3.1.4	✓SF Volume of a cylinder = $3,142 \times (16cm)^2 \times 24,5cm$ = 19 706,624cm^3 ✓CA $\frac{1\ 198,35 inches^3}{1\ 198,35}$: $\frac{19\ 706,624\ cm^3}{1\ 198,35}$ ✓MA 1 inches^3: 16,444 cm^3	1SF correct substitution 1CA volume 1MA correct ratio order 1MA dividing by 1 198,35 (4)	M L4 D
3.1.5	He wants to increase/extend the life span of the container. ✓✓O **OR** To prevent the rust formation ✓✓O	2O opinion (2)	M L4 E
3.2.1	✓RT **K** = 1,2m + 1,8m + 1,8m ✓MA = 4,8m ✓CA	1RT reading 1,2m 1MA adding correct values 1CA correct length (3)	M L2 E
3.2.2	Area of the narrow walkway = 10,8m × 1,2m ✓SF = 12,96m^2 ✓A	1SF correct substitution 1A simplification (2)	M L2 E
3.2.3	✓RT Total length = 10,8m × 2 ✓MA = 21,6m ✓A Number of half lengths = $\frac{21,6m}{0,5}$ = 43,2 ≈ 44 half lengths Cost = 44 × R72,50 ✓MCA = R3 190 ✓CA	1RT correct length 1MA multiplying by 2 1A correct total length 1MA multiplying by R72,50 1CA correct total cost (5)	M L3 D
			[24]

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QUESTION 4 [19]			
QUE	**SOLUTION**	**EXPLANATION**	**T&L**
4.1.1	One unit measured on the map of South Africa represents 8 000 000 units in reality.✓✓O	2O correct explanation (2)	MP L1 E
4.1.2	Northern Cape✓✓RT **OR** NC✓✓RT	2RT correct province (2)	MP L2 M
4.1.3	✓✓A From Cape town fly north east to Durban then fly north west direction to Johannesburg. ✓A	2A correct direction 1A correct direction **NE, NW: Penalty max.1mark** (3)	MP L2 M
4.1.4	✓MA 6,3cm: 800 km × 100 000✓C 6,3cm: 80 000 000 cm 6,3cm 6,3cm✓MA 1: 12 698 412,70✓CA	1MA correct measured distance 1C correct conversion 1MA dividing by 6,3cm 1CA number scale **Leeway of 0,1cm** **NPR** (4)	MP L3 M
4.2.1	FA273✓✓RT	2RT correct number (2)	MP L1 E
4.2.2	✓C Time in hours = 1h +(5 ÷ 60) = 1,083333hrs Distance = 441km/h × 1,083333hrs✓SF = 477,75 = 477,8 km✓CA	1C conversion 1SF correct substitution 1CA correct distance **NPR** (3)	M L3 M
4.2.3	Temperature = 35°C × 86°F ✓C 30°C = 100,33°F Difference = 104°F - 100,33°F✓MCA = 3,67°F✓CA	1C correct conversion 1MCA subtraction 1CA difference **NPR** (3)	M L2 M
			[19]
		TOTAL MARKS:	**75**

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