LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 10

CONTROLLED TEST 1

MATHEMATICAL LITERACY

2026

TOTAL: 50 MARKS

DURATION: 1 HOUR

The paper consists of 5 pages, including the cover page.

INSTRUCTIONS AND INFORMATION

1. This question paper consists of THREE questions. Answer ALL the questions.
2. Show ALL calculations.
3. Number the answers correctly according to the numbering system used in this question paper.
4. Start EACH question on a NEW page.
5. Round off all final answers appropriately according to the context unless stated otherwise.
6. An approved calculator (non-programmable and non-graphical) may be used, unless stated otherwise
7. Indicate units of measurement where applicable.
8. Maps and diagrams are not necessarily drawn according to scale, unless stated otherwise.
9. Write neatly and legibly.

QUESTION 1

1.1 Smarter High School has 896 learners in total and 32 teachers, 394 of the learners are boys.

1.1.1 Express the number of learners per teacher as a simplified ratio. (2)

1.1.2 Determine the percentage of the learners that are boys. Round off your answer to nearest percentage. (3)

1.1.3 If $\frac{2}{5}$ of learners are taking Mathematics, determine the total number of learners that are taking Mathematical Literacy. (3)

1.1.4 Due to increase in the number of enrolled learners in Smarterh High school, the number of teachers was increased by 25%. Determine the new number of teachers. (3)

1.2 Below is the table that shows the cost of Khanile Bus Services per learner.

TABLE 1: COST OF KHANILE BUS SERVICES PER LEARNER

NUMBER OF LEARNERS	10	20	**25**	30	**B**
COST OF BUS	1 500	3 000	3 750	**A**	9 000

1.2.1 Calculate the values A and B. (4)

1.2.2 Identify the independent variable in the table above. (2)

1.2.3 Is this relationship indicated in the table direct or inverse and explain your answer. (4)

1.3 The Mafukaduvha Foundation donated R54064756 to the orphanage homes for developments.

Use the above information to answer the questions that follow.

1.3.1 Rewrite R54064756 with the appropriate thousand separator spaces. (2)

1.3.2 Express the donated amount in words. (2)

1.3.3 Corrugated roof sheetings are sold at R2000, 00 for a dozen. For the development they need 72 corrugated sheetings. Calculate the total amount needed for the corrugated sheetings. (4)

[28]

QUESTION 2

The graph below represents the distance covered by a cyclist from Johannesburg to Springs in kilometers (km).

2.1 At what time did the cyclist leave Johannesburg? (2)

2.2 The cyclist arrived in Springs at 12H00. How far is Springs from Johannesburg? (2)

2.3 How long did the cyclist stop? (2)

2.4 Between which two times was the cyclist driving the fastest? Give an explanation for your answer. (3)

2.5 How far was he from Springs when he stopped? (2)

[11]

QUESTION 3

Mrs Tivani wants to select boys who will represent the school in the 7km trial runs. She asked two best learners to record their finishing times during training. TABLE 2 below shows their times taken during their 7km trial run.

TABLE 2 : TIME TAKEN FOR A 7KM TRIAL RUN

Sefako's time (in m)	35	32	31	32	32	31	30	29	32	30
John's time (in m)	30	31	32	33	33	34	34	35	35	35

.

3.1 State whether the given data is Numerical or Categorical. (2)

3.2 Identify the mode of time recorded by John. (2)

3.3 Determine Sefako's median time. (3)

3.4 John states that his mean time was less than 33. Verify, whether his statement is correct. (4)

[11]

TOTAL MARKS : 50

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 10

PROVINCIAL TEST 1

MATHEMATICAL LITERACY

MARKING GUIDELINES

MARCH 2026

MARKS: 50

Symbol	Explanation
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT	Reading from a table/graph/document/diagram
SF	Correct substitution in a formula
O	Opinion/Explanation
P	Penalty, e.g. for no units, incorrect rounding off, etc
R	Rounding off
NPR	No penalty for rounding
AO	Answer only
MCA	Method with consistent accuracy
RCA	Rounding consistent with accuracy

This marking guideline consists of 3 pages.

QUESTION 1 [28 MARKS]		ANSWER ONLY FULL MARKS	
QUES	**Solution**	**Explanation**	**Level**
1.1.1	$= \frac{896}{32}$ ✓**A** $= 28$ ✓**S**	1A dividing by 32 1S simplification (2)	L2
1.1.2	$\frac{394}{896} \times 100\%$ ✓**MA** $= 43{,}973$ ✓**S** $= 44\%$ ✓**A**	1MA correct numerator & denominator 1S simplification 1R rounding (3)	L2
1.1.3	$1 - \frac{2}{5} = \frac{3}{5}$ ✓**CA** $\frac{3}{5} \times 896$ ✓**MA** $= 537{,}6$ $= 537$ ✓**R**	1CA correct answer 1MA multiplying by 896 1R according to context (3)	L2
1.1.4	$25\% \times 32$ ✓**MA** $= 8$ ✓**CA** $\therefore 32 + 8 = 40$ ✓**S**	1MA multiplying correct values 1CA correct answer 1S simplification (3)	L2
1.2.1	$\frac{1500}{10} = 150$ ✓**CA** $A = 30 \times 150$ ✓**MCA** $= 4500$ ✓**CA** $B = \frac{9000}{150}$ $= 60$ ✓**S**	1CA constant multiple 1MCA correct multiplication 1CA correct answer 1S simplification (4)	L2
1.2.2	Number of learners ✓✓**A**	2A correct answer (2)	L1
1.2.3	Direct proportion ✓**A** The more the number of learners the more the cost ✓✓**O**	1A correct answer 2O opinion (3)	L4
1.3.1	R54 064 756 ✓✓**A**	2A correct classification (2)	L1
1.3.2	Fifty - four million and sixty- four thousand seven hundred and fifty- six rand ✓✓	2A amount in words (2)	L1

1.3.3	$\frac{72}{12}$ ✓A = 6 ✓S R2 000,00 × 6 ✓M = R12 000,00 ✓A	1A concept of dozen 1S simplification 1M multiply by 6 1A (4)	L3
		[28]	

QUESTION 2 [11 MARKS]

QUES	Solution	Explanation	Level
2.1	10 : 45 ✓✓**RT**	2RT (2)	L1
2.2	30 km ✓✓**RT**	2RT (2)	L1
2.3	15 minutes✓✓**RT**	2RT (2)	L2
2.4	11:00 – 11:15 ✓✓**RT** The slope is the steepest ✓**O**	2RT 1O (3)	L4
2.5	10 km ✓✓**RT**	2RT (2)	L1
		[11]	

QUESTION 3 [11MARKS]

QUES	Solution	Explanation	Level
3.1	Numerical ✓✓**A**	2A correct answer (2)	L1
3.2	35 ✓✓**RT**	2RT correct mode (2)	L1
3.3	29 30 30 31 31 32 32 32 32 35 ✓**A** = $\frac{31+32}{2}$ ✓**M** = 31,5 ✓**CA**	1Ascending order 1M concept median 1CA answer (3)	L3
3.4	30 + 31 + 31 + 32 + 32 + 31 + 30 + 29 + 32 + 30 = 332 Mean = $\frac{332}{10}$ ✓✓**MA** = 33,2 ✓**MA** His statement is not correct ✓**CA**	1MA adding all values 1MA divide by 10 1A Simplifying 1CA opinion (4)	L4
		[11]	
	TOTAL MARKS : 50		