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LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL SENIOR CERTIFICATE

GRADE 11

MATHEMATICAL LITERACY P1

MAY/JUNE 2026

MARKS: 75

TIME: 2 HOURS

This question paper consists of 10 pages and an answer sheet.

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INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions. Answer ALL the questions.
2. Use the **ANSWERSHEET** attached to answer **QUESTION 2.2.4.**
3. Start EACH question on a NEW page.
4. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
5. Show ALL calculations clearly.
6. Round ALL the final answers appropriately according to the context, unless stated otherwise.
7. Indicate units of measurement, where applicable.
8. Maps and diagrams are NOT necessary drawn to scale, unless stated otherwise.
9. Write neatly and legibly.

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QUESTION 1

1.1 TABLE 1 below gives definitions of terminology used in Mathematical Literacy.

TABLE 1: DEFINITIONS OF TERMINOLOGY IN MATHEMATICAL LITERACY

A	This is the actual rand amount of interest that will be added to your loan.
B	The point at which the income equals the expenses
C	A plan on how to spend money.
D	When someone or an organisation takes money out of your account.
E	Money taken out of a bank account.
F	The financial resources, assets, and wealth used to fund operations, generate revenue, and grow the company
G	Numbers that tell how far data values in a data set lie apart; spread of numerical data set (range, quartiles, and percentiles).
H	All outcomes are equally likely to occur.

Use TABLE 1 above and match a definition with the terminology below. Write only the letter (A – H) next to the question numbers (1.1.1.to 1.1.4). e.g. 1.1.7 K

1.1.1 Capital (2)

1.1.2 Measures of spread (2)

1.1.3 Debit (2)

1.1.4 Budget (2)

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1.2 Below is a tax invoice for a cell phone contract for Ms. Bopape.

TAX INVOICE

Invoice number: 10094562
Invoice Date: 01.05.2026

Ms. Bopape TP
265 Thabo Mbeki Street
Polokwane
0700

PACKAGE DETAILS

Description	From	To	Amount	Total excluding VAT
Monthly charges	01.05.2026	30.06.2026		R134,78
Pinnacle 500MB			R134,78	
Call charges				R11,22
Other Mobile Calls			R4,75	
Smart Data Internet			R6,47	

INVOICE DETAILS

Amount (Excluding VAT)	**A**
VAT @ 15%	R21,90
Total (Including VAT)	**R167,90**

[source: adapted from www.telkom.co.za]

Use the information above to answer the questions that follow.

1.2.1 Identify the name of Ms. Bopape`s cell phone network provider. (2)

1.2.2 Calculate the value of A. (2)

1.2.3 Write down the ratio of Smart Data Internet to Other Mobile Calls. (2)

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QUESTION 2

2.1

Pieter is a resident in the Musina Local Municipality. TABLE 2 below shows water tariffs on a sliding scale that the municipality uses to charge for water usage.

TABLE 2: MUSINA LOCAL MUNICIPALITY WATER TARIFFS

Block	**Water usage**	**Rate per kilolitre (VAT of 15%) inclusive**
1	0 – 6kl	R0
2	7 – 30kl	R6,48
3	30,1 – 60kl	R16,20
5	More than 61kl	R43,58

[source: adapted from www.musina.co.za]

Note:

- **Fixed charge if > 6 kl = R80, 70**
- **Fee for infrastructure if > 6 kl = R7, 15**

Use the information and TABLE 2 above to answer questions that follow.

2.1.1 Define the term *tariff.* (2)

2.1.2 Pieter claims that he will pay more than R350,00 if he uses 35kl of water. Verify with calculations if his claim is valid. (8)

2.1.3 Calculate the VAT amount included in the rate per kilolitre for block 3. (3)

2.1.4 Give two explanations for why municipalities impose tariffs on customers. (4)

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2.2 A local bakery is spending R450 on water and electricity. The cost of baking one loaf of bread is R4,00 which include labour and ingredients. A loaf is sold at R6,50. The tables below show the cost and income for selling loaves of bread.

TABLE 3: WEEKLY COST OF BAKING LOAVES OF BREAD

Number of loaves	0	60	120	180	240	300
Total cost (in rands)	R450,00	R690,00	R930,00	R1170,00	R1410,00	**A**

TABLE 4: WEEKLY INCOME FOR SELLING LOAVES OF BREAD

Number of loaves	0	60	120	180	240	300
Total income (in rands)	0	R390,00	R780,00	**B**	R1560,00	R1950,00

Use the information and TABLES above to answer the questions that follow.

2.2.1 Write down the formula for calculating the cost of baking bread. (2)

2.2.2 Calculate the missing values **A** and **B**. (4)

2.2.3 Use the formula in 2.2.1 above to calculate the cost of baking 50 loaves. (2)

2.2.4 On the same set of axes, use the values from Table 3 and Table 4, and the answer sheet provided to draw the graphs illustrating both INCOME and COST of baking loaves of bread. (5)

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QUESTION 3

3.1 TABLE 6 below shows the bottom eight Betway Premiership teams competing in the South African Professional Soccer League PSL in the 2025/26 soccer season. The total number of teams in the league are sixteen.

TABLE 6: BOTTOM EIGHT BETWAY PREMIERSHIP TEAMS

TEAM	MP	W	D	L	GF	GA	GD	PTS
Stellenbosch FC	23	7	7	9	20	25	-5	28
Siwelele	23	6	9	8	13	17	-4	27
Richards Bay	24	6	9	9	20	27	-7	27
TS Galaxy	24	7	4	13	25	33	-8	25
Chippa United	25	5	9	11	20	33	-13	24
Marumo Gallants	24	4	7	13	17	34	-17	19
Orbit College FC	24	5	4	15	17	39	-22	19
Magesi FC	23	3	8	12	16	31	-15	17

Keys: MP – Matches Played **L – Loss** **GD – Goals difference**

W – Win **GF – Goals for** **PTS - Points**

D – Draw **GA – Goals against**

[source:www.psl.co.za]

Use TABLE 6 above to answer the questions that follow:

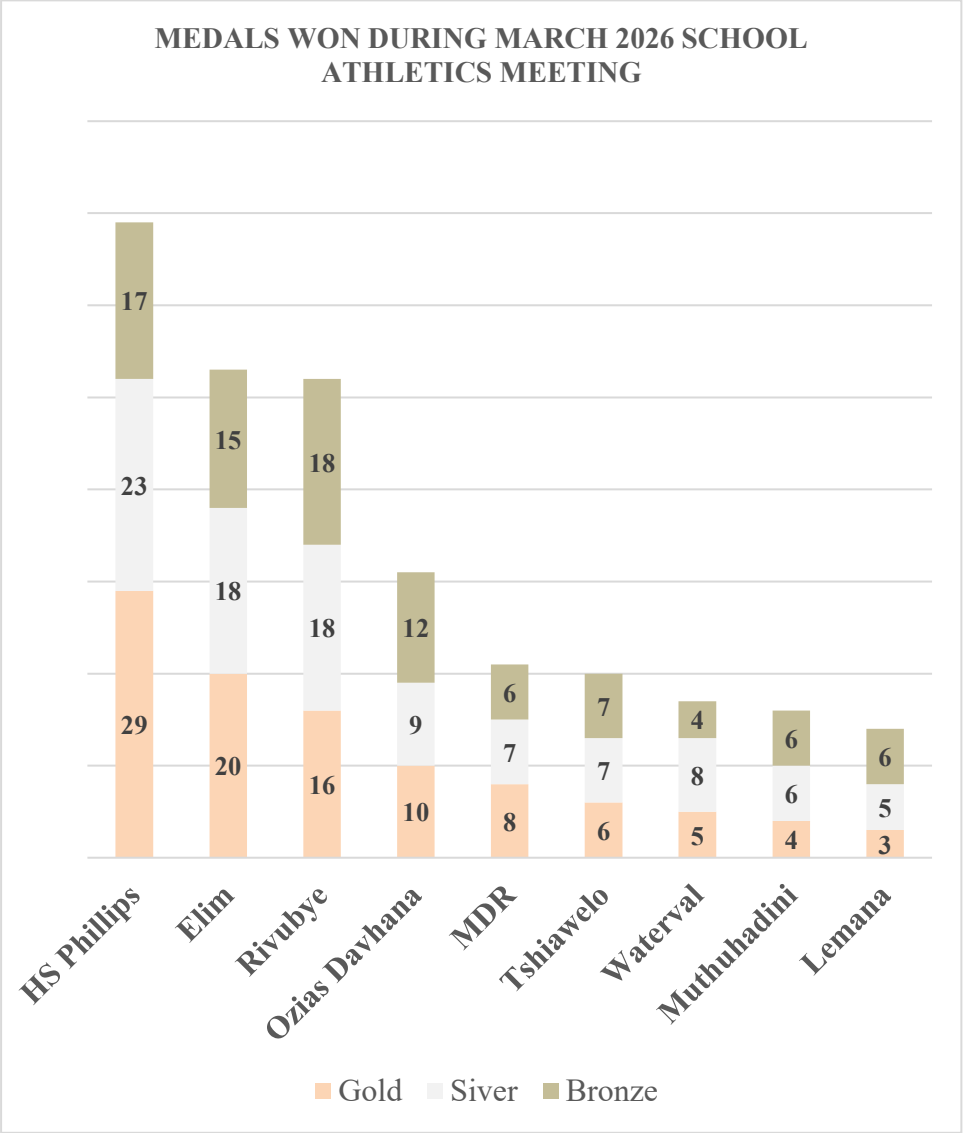
3.1.1 Determine the average points scored by all the teams in the Betway Premiership. (3)

3.1.2 Magesi FC will play their last fixture with TS Galaxy. Determine, as a percentage, the chances of Magesi to win the match. (3)

3.1.3 Orbit College FC and Marumo Gallants have played the same number of games and have equal points. Explain why Marumo Gallants are above in the league standing. (2)

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3.2 The graph below shows the nine schools' medals won during the circuit school athletics meeting held in March 2026 in Elim Circuit.



Use the diagram above to answer the questions that follow.

3.2.1 Determine the number of medals Elim won in total. (2)

3.2.2 Calculate the difference between HS Phillips and Lemana`s gold medals. (3)

3.2.3 Calculate the percentage of Elim`s total number of bronze medals won during the 2026 circuit athletics meeting. (3)

3.2.4 Determine the probability, as a decimal rounded to two decimal places of randomly selecting a school that received more than 20 gold medals. (3)

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QUESTION 4

4.1

The data below shows the shoe sizes of selected learners at Mocheudi Secondary school.

6	9	8	7	6	M	6	8	7	9
10	6	6	M						

[Source: adapted from FSDoEmay/june2025]

Use the information above to answer questions that follow.

4.1.1 If the mean shoe size is 7, calculate the value of M. (5)

4.1.2 Identify the minimum value of the data. (2)

4.2

Rhandzu works as a sales representative in a company that makes business cards. Below is her payslip for total earnings and deductions.

PAYSLIP			
Greenzar Corp Inc.			
Appointment Date: 15 Jan 2026		**Employee Name: Rhandzu**	
Pay Period: 15 Feb 2026		Designation: Sale Rep.	
Worked days: 30		Department: Sales	
Earnings	**Amount**	**Deductions**	**Amount**
Basic Salary	R12 000	Provident Fund	R1 500
Incentive Pay	16,67% of basic pay	Tax	R700
House Allowance	R500	Loan	R600
Meal Allowance	**C**		
Total Earnings	**R14 800,14**	**Total Deductions**	**R2 800**
Net Pay			**D**

[adapted from https://www.cleverence.co.za]

Use the table above to answer questions that follow.

4.2.1 Calculate the missing value C. (3)

4.2.2 Determine the missing value D, the Net Pay. (2)

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TOTAL MARKS: 75

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ANSWERSHEET

QUESTION 2.2.4

NAME OF LEARNER: ……

